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May 16, 2019

TO: Hamilton County Drainage Board

RE: Ellis Barker Drain Reconstruction

Attached are the petition, plans, schedule of assessments and drainage shed map, for the Ellis Barker Drain Reconstruction Project.

I have made a personal inspection of the Drain. Upon doing so, I believe that the drain is practicable; will improve the public health; will be of public utility; and that the costs, damages and expenses of the proposed drain will probably be less than the benefits accruing to the owners of land likely to be benefited.

The attached plans, dated March 29, 2019, were prepared by the Hamilton County Surveyor's Office. The plans are for the conversion of a section of the Drain from tile to open ditch; dredging a section of the Drain that is an existing open ditch; relocation of a section of the Drain that includes conversion from tile to open ditch; and construction of a new arm of the drain that will be an open ditch. The project will improve the flow characteristics of the Drain.

History

The Ellis Barker Drain is located in both Westfield-Washington and Noblesville Townships; Sections 20, 21, 39, and 30 of Township 19 North Range 4 East. The Drain consists of the Ellis Barker Drain, Arm 1 of the Ellis Barker Drain, Arm 2 of the Ellis Barker Drain, the McKnight Extension, and the Marathon Pipeline Extension.

The Ellis Barker Drain, Arm 1, and Arm 2 were established per a Viewers Report dated July 5, 1905 and approved by the Hamilton County Commissioners.

An extension to the Drain known as the Marathon Pipeline Extension was approved at the May 24, 2010 meeting of the Drainage Board (Hamilton County Drainage Board Meeting Minutes Book 12, pages 547-548).

An extension to the Drain known as the McKnight Extension was approved at the July 25, 2011 meeting of the Drainage Board (Hamilton County Drainage Board Meeting Minutes Book 13, pages 484-485).

The Ellis Barker Drainage Shed was combined with the Sly Run Drainage Shed at the May 23, 2011 meeting of the Drainage Board (Hamilton County Drainage Board Meeting Minutes Book 13, pages 399-400).

A topographic survey was completed by Weihe Engineers between March 9th and March 23rd, 2018 and provided to the Surveyor's Office on April 6, 2018.

A topographic survey was completed by Stoeppelwerth & Associates as part of the Lindley Run Development project. This survey was used by Stoeppelwerth & Associates to design the tile portion of this reconstruction project further described in other sections of this report.

Work Order History

There has been a total of 13 drainage complaints filed with the Surveyor's Office since 2000.

DC#	Date	Description	Location
DC-2000-00012	4/7/2000	Three (3) Holes in Tile	S of 196th St & E of Grassy Branch Rd
DC-2001-00216	11/1/2001	Two (2) Locations where Tile is broken	3801 196th St
DC-2002-00438	10/15/2002	Blow Holes	N of 191st St & W of Moontown Rd
DC-2003-00078	3/19/2003	Standing Water in Rear Yard	Rear Yard of 3801 E 196th St
DC-2006-00479	12/15/2006	Blow Holes West of Open Ditch	S of 196th St & W of Moontown Rd
DC-2007-00416	10/30/2007	Sink Hole	196th St & Moontown Rd
DC-2008-00197	5/8/2008	Flowing on Surface of Property	SW of 296th St & Hinkle Rd
DC-2009-00046	3/2/2009	Blow Hole	S of 196th St & W of Grassy Branch Rd
DC-2009-00131	4/13/2009	Blow Hole & Surface Water	196th St & Grassy Branch Rd

DC-2012-00003	1/6/2012	Blow Hole	W Side of Field @ 196th St & Moontown Rd
DC-2013-00142	4/16/2013	Blow Holes	S of 196th St & W of Moontown Rd
DC-2015-00383	7/27/2015	Blow Hole	S of 196th St & W of Moontown Rd
DC-2016-00062	3/10/2016	Blow Hole	S of 196th St & N of Grassy Branch Rd

There have been sixteen (16) work orders completed on the drain since 2000. They are as follows:

Work Order Number	Type of Repair	Cost	Date Complete
WO-2000-00071	Three (3) Blow Holes	\$904.00	4/18/2000
WO-2001-00178	Several Blow Holes	\$1,707.70	11/8/2001
WO-2003-00055	Standing Water	\$515.50	6/2/2003
WO-2007-00022	Repair Several Large Blow Holes	\$3,436.25	11/8/2007
WO-2008-00194	Root Cut; Jet and Vac	\$1,093.75	7/2/2008
WO-2008-00147	Remove Blockage & Repair Blow Hole	\$1,953.25	7/2/2008
WO-2010-00006	Blow Hole & Surface Water	\$543.80	4/14/2010
WO-2012-00050	Three (3) Blow Holes	\$326.00	2/11/2012
WO-2014-00049-A	Repair Several Blow Holes	\$16,178.60	5/28/2015
WO-2014-00049-B	Repair Several Blow Holes	\$11,908.86	5/28/2015
WO-2014-00049-C	Repair Several Blow Holes	\$7,672.15	5/28/2015
WO-2014-00049-D	Repair Several Blow Holes	\$945.53	5/28/2015
WO-2014-00049-E	Repair Several Blow Holes	\$3,136.11	5/28/2015
WO-2015-00412	Several Blow Holes	\$1,110.22	1/6/2016
WO-2016-00100	Blow Hole	\$873.11	4/25/2016

WO-2016-00226	Blow Hole	\$494.15	6/16/2016
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There are no outstanding work orders for this Drain at this time.

Existing Condition

The Ellis Barker Drain consists of both tile and open ditch. The drain functions but is undersized by today's standards. A majority of the properties served by the drain have standing water issues that affect crop production. The tile is at least 114-years old and has exceeded the expected service life of such a tile. Routine maintenance is required for the tile to function. The open ditch portion of the Drain is overgrown with vegetation and sediment has accumulated in the channel. This sediment compromises the hydraulic capacity of the channel and also limits (or prohibits) the capacity of private field tiles that discharge to the open ditch and the ability of these tiles to effectively drain the root zone of the adjacent agricultural lands. An adequately drained root zone relieves stress on plants and also provides aeration to the root system, which potentially increases production/yield of the acreage.

Water ponds on the surface at the east property line of the Goins property.

A wetland delineation was by Williams Creek Consulting for M/I Homes of Indiana, LP in 2016. The limits of the wetland on the M/I Homes Indiana, LP property were included in the CAD file provided by Weihe Engineers on April 6, 2016 as part of the topographic survey work.

A wetland delineation dated December 14, 2017 and performed by Earth Source, Inc. for Lindley Run Development, LLC identified three wetland areas on the Goins property.

Reconstruction Project

The improvement project will reconstruct the Drain between Stations 11+86 and 69+40.

The Ellis Barker Drain between Station 0+00 and 11+86, the Ellis Barker Drain between Station 69+40 and Station 78+40 (the Marathon Pipeline Extension), and Arm 1 of the Ellis Barker Drain will not be affected by this project.

The project will re-establish the flowline of the existing open ditch portion of the Drain between Stations 48+76 and 69+40 to improve the capacity of the Drain and to provide positive drainage to any tiles that outlet to the Drain.

The project also creates a new arm to the Ellis Barker Drain to serve the proposed Northpoint Development at the northwest corner of 196th Street and Grassy Branch Road.

Demolition

Clearing of existing trees on the M/I Homes Indiana, LP property and the Johnson property has already been completed by a County maintenance contractor. A total of 3.23-acres was cleared. As of the date of this report, the value of this work is equal to the following:

Contractor	Туре	Amount	
Tri-State Forestry Services, Inc.	Proposal	\$38,000.00	
Van Horn Excavating	Invoices to Date	\$47,847.00	
	Total	\$85,847.00	· · · · · ·

Due to the fact that the work is not yet completed, the total value of the work is estimated to be \$100,000.00.

The existing Ellis Barker tile will be replaced between Station 25+05 and Station 48+76. The existing Ellis Barker tile between Station 11+86 and 25+05 and the entirety of Arm 2 (Stations 0+00 and 6+06) will be abandoned in place and demolished as development of the Lindley Run subdivision progresses.

Ellis Barker Drain

The project will include the installation of the following as new tile: 84-LF of 12" RCP; 28-LF of 15" RCP; 212-LF of 30" RCP; 462-LF of 36" RCP; 1,131-LF of 42" RCP; 560-LF of 48" RCP; 2, 48" RCP End Sections; 1, Outlet Control Structure; 4, 48" Manholes with casting; 4, 60" Manholes with casting; 4, 72" Manholes with casting; 2, 84" manholes with casting; 2, 96" manhole with casting; 1, 108" manhole with casting.

The new tile was sized for runoff rates from the watersheds upstream of Grassy Branch Road, upstream of 196th Street, and the portion of the Lindley Run development that is proposed to drain to the new tile. The total watershed served by the new tile is 246.01-acres. The watershed is comprised of 177.73-acres of offsite watershed that will be managed with future development; 49.32-acres from the Lindley Run development; and 18.96-acres of offsite acreage that is controlled by an existing roadway culvert. Assuming detention is provided for the future development area of 227.05-acres (177.73-acres offsite and 49.32-acres onsite), the runoff from these areas will be 22.71-CFS during the 10-year storm event and 68.12-CFS during the 100-year storm event. The 18.96-acre off-site area that is controlled by the existing roadway culvert generates 8.79-CFS during the 100-year storm event. Adding this base flow to the managed release rates results in peak flows of 31.5-cfs during the 10-year storm event and 76.91-CFS during the 100-year storm event. The tile is sized incrementally as more watershed is served by the new tile. The proposed detention pond on Lindley Run will have peak discharges equal to 24.27-CFS during the 10-year storm event and 72.23-CFS during the 100-year storm event. These discharges satisfy the maximum release requirement.

The project will include the installation of 2,405-LF of new 4-bottom ditch with 3:1 side slopes.

At the most restrictive point of the proposed open ditch, a point where stormwater runoff conveyed in the open ditch stages out of the banks at the shallowest depth, the capacity of the proposed open ditch is 188.37-CFS at a depth of 3.61-feet. The runoff from the existing 10-year storm at this point, Station 55+16, is 114-CFS and will flow below the proposed top of bank at a depth of 2.91-feet. With future development upstream of this point the stormwater runoff conveyed by the proposed open ditch will be reduced from the existing condition due to management of the stormwater runoff by detention facilities.

The project will include the installation of 763-LF of 5-bottom open ditch with 4:1 side slopes and erosion control blankets. This open ditch is located within the footprint of a future wet bottom detention facility of the Lindley Run subdivision. This open ditch will be expanded in the future by the developer of the Lindley Run subdivision and will cease to function as an open ditch at that time.

The project will include the dredging of 2,043-If of the existing open ditch to a point approximately 35-If upstream of the current end of the McKnight extension and start of the Marathon Pipeline Extension. 1,490-LF of the total length is both dredging and bank work. 553-LF of this work is bank work only.

As previously stated, the existing Ellis Barker tile between Station 11+86 and Station 25+05 will be abandoned in place. Until such time as the tile is demolished with the Lindley Run development, a positive drainage outlet needs to be provided. 61-LF of 18" dual wall, non-perforated HDPE tile with 3, 18"x18" 45-degree fittings will be installed and discharged to the last manhole just upstream of the new open ditch.

There are three instances where existing surface water flow must be maintained to the new open ditch. One surface swale is 42-LF of 5-foot bottom with 4:1 side slopes. The other two comprise a total of 222-LF of V-bottom swale with 10:1 side slopes.

Two tile outlets for existing private drains will be constructed with this project. The tile outlets will consist of 20-LF of 8" CMP and 20-LF of 10" CMP. As part of the installation of one of two tile outlets, it is necessary to remove approximately 46-LF of an existing 6" tile.

The cost estimate includes the installation of 12 surface water pipes per HCSO Detail OD-8. These will be installed on an "as-needed" basis.

The soil excavated with the project will be placed within the adjacent regulated drain easement on the north side of the open ditch and other places as approved by the property owners.

The cost estimate also includes the demolition of the existing tile. A total of 2,121-LF of the existing tile is not located along the alignment of the proposed open ditch and must be removed in a separate operation.

The project will also include the installation of rip-rap stabilization at surface water outlets to the new open ditch (a total of 233-tons of revetment rip-rap); clearing of any remaining small trees and woody vegetation in the Operational Area; maintenance of traffic; four fence removals and repairs; seeding for a 20-foot filter strip as noted in the Filter Strip section of this report; seeding and other stabilization of disturbed soil areas; and other ancillary construction.

Construction Cost Estimate

The estimated cost of construction is outlined below. There is a Base Bid and an Alternate Bid. The Alternate Bid is for the work associated with the installation of the proposed tile system. The Base Bid includes two estimates. One estimate is for the work associated with the approval of Scofield Farms subdivision and will be paid by M/I Homes of Indiana, LP. The other part of the Base Bid is for all other work associated with this reconstruction project.

Line Item	Description	Unit	Quantity	Ļ	Init Cost	 Total Cost
BB-1	Demolish existing regulated drain	LF	1185	\$	35.00	\$ 41,475.00
BB-2	Fence Removal and Repair	EA	2	\$	1,250.00	\$ 2,500.00
BB-3	4-foot bottom ditch with 3:1 side slopes	LF	1478	\$	70.00	\$ 103,460.0
BB-4	Construction Entrance	EA	1	\$	12,000.00	\$ 12,000.0
BB-5	Filter Strip	ACRE	1.43	\$	3,000.00	\$ 4,290.0
BB-6	Rip-Rap Revetment	TON	164	\$	55.00	\$ 9,020.0
BB-7	Seeding	ACRE	3.05	\$	3,000.00	\$ 9,150.0
BB-8	10"x20' CMP Pipe with Animal Guard	EA	1	\$	1,750.00	\$ 1,750.0
BB-9	18" Dual wall, non-perforated, HDPE	LF	61	\$	50.00	\$ 3,050.0
BB-10	18"x18" Dual wall HDPE fittings	EA	3	\$	500.00	\$ 1,500.0
BB-11	Surface Water Pipes	EA	8	\$	1,600.00	\$ 12,800.0
BB-12	V-Bottom surface water swale with 10:1 side slopes	LF	222	\$	60.00	\$ 13,320.0
BB-13	Clearing	LS	1	\$	3,750.00	\$ 3,750.0
BB-14	Remove existing 6" Tile	LF	46	\$	35.00	\$ 1,610.0
BB-15	Existing Open Ditch Bank Work	LF	553	\$	10.00	\$ 5,530.0
BB-16	8"x20' CMP Pipe with Animal Guard	EA	1	\$	1,500.00	\$ 1,500.0
BB-17	Dredge Existing Open Ditch	LF	1129	\$	12.50	\$ 14,112.
					Subtotal	\$ 240,817.
			15%	Co	ntingency	\$ 36,122.6
					Total	\$ 276,940.

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	under de la companya de la companya La companya de la co		15%	Contingency	\$	124,163.32
				Subtotal	\$	827,755.49
AB-23	Maintenance of Traffic	LS	1	\$ 5,000.00	\$	5,000.00
AB-21	48" RCP Pipe [6-10' deep]	LF	282	\$ 175.00	\$	49,350.00
AB-20 AB-21	48" RCP Pipe [11-15' deep]	LF	278	\$ 200.00	\$	55,600.00
AB-19 AB-20	48" RCP End Sections	EA	2	\$ 6,000.00	\$	12,000.00
AB-10 AB-19	42" RCP Pipe [6-10' deep]	LF	531	\$ 165.00	\$	87,615.00
AB-17 AB-18	42" RCP Pipe [11-15' deep]	LF	600	\$ 190.00	\$	114,000.00
	36" RCP Pipe [6-10' deep]	LF	462	- \$1	\$	71,610.00
AB-15 AB-16	30" RCP Pipe [6-10' deep]	LF	152	\$ 125.00	\$	19,000.00
AB-14	30" RCP Pipe [11-15' deep] with Granular Backfill	LF	60	\$ 250.00	\$	15,000.00
AB-13	15" RCP Pipe [6-10' deep]	LF	28	\$ 95.00	\$	2,660.00
Appendix and an exercise of the	12" RCP Pipe [6-10' deep]	LF	84	\$ 85.00	\$	7,140.00
AB-11 AB-12	Pavement Repair	LS	1	\$ 6,500.00	\$	6,500.00
AB-10 AB-11	Outlet Control Structure with screen	EA	1	\$ 6,500.00	\$	6,500.00
AB-9 AB-10	108" Manhole with casting	EA	1	\$16,000.00	\$	16,000.00
AB-8 AB-9	96" Manhole with casting	EA	2	\$13,000.00	\$	26,000.00
AB-8	84" Manhole with casting	EA	2	\$ 10,000.00	\$	20,000.00
AB-0 AB-7	72" Manhole with casting	EA	4	\$ 7,500.00	\$	30,000.00
AB-5 AB-6	60" Manhole with casting	EA	4	\$ 6,750.00	\$	27,000.00
AB-4 AB-5	48" Manhole with casting	EA	4	\$ 4,500.00	\$	18,000.00
AB-3 AB-4	Seeding	ACRE	2.25	\$ 3,000.00	\$	6,750.00
AB-3	Erosion Control Blanket	SYS	7812	\$ 2.50	\$	19,530.00
AB-1 AB-2	5-foot bottom ditch with 4:1 side slopes	LF	763	\$ 275.23	, \$	210,000.49
Line Item AB-1	Fence Removal and Repair	EA	2	\$ 1,250.00	\$	2,500.00
	ction of the Ellis Barker Regulated Drain - Alternate Bid Description	Unit	Quantity	Unit Cost		Total Cost
				Total	Ş	120,407.30
			15%	Contingency		15,705.30
				Subtotal		104,702.00
BB-MI-9	Clearing	LS	1	\$ 1,000.00	\$	1,000.00
BB-MI-8	5-bottom surface water swale with 4:1 side slopes	LF	42	\$ 60.00	\$	2,520.00
BB-MI-7	Dredge Existing Open Ditch	LF	362	\$ 12.50	\$	4,525.00
BB-MI-6	Surface Water Pipes	EA	4	\$ 1,600.00	\$	6,400.00
BB-MI-5	Seeding	ACRE	1.26	\$ 3,000.00	\$	3,780.00
BB-MI-4	Rip-Rap Revetment	TON	69	\$ 55.00	\$	3,795.00
BB-MI-3	Filter Strip	ACRE	0.59	\$ 3,000.00	\$	1,770.00
BB-MI-2	4-foot bottom ditch with 3:1 side slopes	LF	926	\$ 52.00	\$	48,152.00
BB-MI-1	Demolish existing regulated drain	LF	936	\$ 35.00	\$	32,760.00
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Permits

The Surveyor has applied for permits from the Army Corps of Engineers and Indiana Department of Environmental Management for this project.

Application for permits for construction equipment access from the roadways, if needed, will be made prior to the start of construction.

Easements

The project will take place within existing regulated drain easements for the Ellis Barker Drain.

Additional permanent regulated drain easement will be required from the following parcels. Such easements will be contiguous with the existing statutory easement over the Ellis Barker Drain. All acreages are approximate.

Parcel No.:	Owner	Size (acres)	Type of Grant
08-06-29-00- 00-002.001	Johnson, Brian & Melissa S; Co-Trustees of Melissa Johnson Rev. Trust	0.592	Grant of Easement. Accepted by the Board at the May 13, 2019 meeting of the Drainage Board.
08-06-29-00- 07-075.00	M/I Homes of Indiana, LP	0.248	By Plat

There are known property boundary discrepancies between the Goins and Johnson properties that are in the process of being resolved. Once resolved, a certain amount of easement will be granted on the Johnson property and a certain amount of easement will be dedicated by Plat from the Goins property.

The statutory easement associated with the existing regulated drain across the following parcels will be modified as follows:

Parcel No.:	Owner	Change
08-06-29-00- 00-002.001	Johnson, Brian & Melissa S; Co- Trustees of Melissa Johnson Rev. Trust	Reduced to 40-feet on each side measured from the top of bank of the proposed open ditch.
08-06-29-00- 07-075.00	M/I Homes of Indiana, LP	Reduced to 30-feet on each side measured from the top of bank of the proposed open ditch.
08-06-29-00- 00-001.001	Goins, Thomas E.	Vacated

08-06-29-00- 00-001.201	Lindley Run Development LLC	Vacated
08-06-29-00- 00-001.301	Lindley Run Development LLC	Reduced to 25-feet on each side measured from the center of the existing tile.
08-06-29-00- 00-003.001	Goins, Thomas E.	Reduced to 25-feet on the south side measured from the top of bank of the proposed open ditch.
08-06-29-00- 07-073.000	M I Homes of Indiana LP	Vacated
08-06-29-00- 07-060.000	M I Homes of Indiana LP	Vacated
08-06-29-00- 07-074.000	M I Homes of Indiana LP	Vacated
08-06-29-00- 07-061.000	M I Homes of Indiana LP	Vacated
08-06-29-00- 07-062.000	M I Homes of Indiana LP	Vacated
08-06-29-00- 07-063.000	M I Homes of Indiana LP	Vacated
08-06-29-00- 07-064.000	M I Homes of Indiana LP	Vacated
08-06-29-00- 07-065.000	M I Homes of Indiana LP	Vacated
08-06-29-00- 07-066.000	M I Homes of Indiana LP	Vacated
08-06-29-00- 07-0067.000	M I Homes of Indiana LP	Vacated
08-06-29-00- 07-068.000	M I Homes of Indiana LP	Vacated

A new statutory easement is hereby established across the following parcels. At such time as the secondary plats for sections of the Lindley Run Development are recorded, proper approvals shall be obtained from the Drainage Board to reduce the width of these easements through the Lindley Run development.

Parcel No.:	Owner	Change
08-06-29-00-00- 001.001	Goins, Thomas E.	150-feet in width centered on the proposed tile.
08-06-29-00-00- 001.301	Lindley Run Development	150-feet in width centered on the proposed tile.
08-06-29-00-00- 001.201	Lindley Run Development	150-feet in width centered on the proposed tile.

Filter Strips

20-foot filter strips are hereby established across the following parcels:

Parcel No.:	Owner	Side of Open Ditch
08-06-29-00-00- 002.001	Johnson, Brian & Melissa S; Co-Trustees of Melissa Johnson Rev. Trust	North Side
08-06-29-00-07- 075.00	M/I Homes of Indiana, LP	North Side

Changes to the Ellis Barker Drain

The following, a total of 4,296-LF-If, will be removed from the Ellis Barker drain.

- 1. The existing tile between Station 11+86 and Station 25+05 of the main Drain. This tile will be abandoned in place and replaced with new tile along a different alignment.
- 2. The existing tile between Station 25+05 and Station 48+76 will be removed and replaced with new open ditch
- 3. The entirety of the existing Arm 2 tile between Station 0+00 and Station 6+06. This tile will be abandoned in place.

The following, a total of 5,645-If, will be added to the Ellis Barker drain.

1. 462-LF of 36" RCP tile.

- 2. 1,131-LF of 42" RCP tile.
- 3. 560-LF of 48" RCP tile.
- 4. 763-LF of temporary open ditch.
- 5. 2,405-If of new open ditch.
- 6. 24-LF of 30" RCP starting at Station 16+48 as a lateral to drain an adjacent swale and serve as an outlet for the watershed on the west side of Grassy Branch Road that currently drains through a roadway culvert.
- 7. 28-LF of 12" RCP starting at Station 19+03 as a lateral to drain an adjacent swale.
- 8. 28-LF of 12" RCP starting at Station 21+79 as a lateral to drain an adjacent swale.
- 9. 28-LF of 15" RCP starting at Station 24+79 as a lateral to drain an adjacent swale.
- 10. 28-LF of 12" RCP starting at Station 27+79 as a lateral to drain an adjacent swale.
- 11. 188-LF of 30" RCP as the Northpoint Arm of the Drain.

The following will be dredged without any change in length.

1. 2,043-feet of existing channel from Station 48+76 to Station 69+40.

The new section of the Drain starts at Station 11+86 where it intercepts the existing 10-inch tile of the main Ellis Barker Drain. The drain then runs as 462-LFof 36-inch RCP tile; then 1,131-LFof 42-inch RCP tile; then 278-LF of 48-inch RCP tile; then as 763-LF of temporary open ditch; then as 282-LF of 48-inch RCP tile; then continues downstream as 2,405-If of new open ditch; then continues downstream as 2,043-If of dredged existing open ditch to Station 85+53 where it will discharge at Station 69+40 of the existing open ditch; 35-feet upstream of the end of the McKnight Extension/Start of the Marathon Pipeline Extension at Station 69+75.

The two private tile outlets, the outlet of the abandoned Ellis Barker tile, the three surface water swales, and any needed surface water pipes are considered ancillary to the project and are not considered a part of the Ellis Barker Regulated Drain.

This reconstruction will remove 4,296-LF and add 5,645-LF resulting in a net increase of 1,349-feet to the Drain.

Northpoint Arm to the Ellis Barker Drain

As part of the reconstruction project, a new arm of the Ellis Barker Drain shall be established. The arm begins at Station 19+03 of the Ellis Barker Drain and continues upstream as 188-LF of 30" RCP tile between Station 0+00 and Station 1+88. The total length of the new arm will be 188-feet and shall be known as the Northpoint Arm to the Ellis Barker Drain.

Project Funding

Topographic survey was provided by Weihe Engineers. The value of this work was \$8,650.00 Engineering Design was performed by the Hamilton County Surveyor's Office. Construction staking, construction inspection and as-built drawings will be performed by the Hamilton County Surveyor's Office.

Stoeppelwerth & Associates is under contract with Lindley Run Development, LLC to provide professional services associated with the proposed tile portion of the reconstruction. This contract includes design, construction staking, and as-built drawing production. The value of this contract is \$7,500.00 and will be reimbursed to Lindley Run Development upon proof of payments to Stoeppelwerth & Associates.

The project will be let by the Hamilton County Drainage Board and the construction contract will be managed by the Hamilton County Surveyor's Office.

The total value of the project is estimated to be as follows:

Construction	\$1,349,266.24
Clearing	\$100,000
Weihe Survey	\$8,650.00
Stoeppelwerth & Associates	\$7,500.00
Total Project Cost	\$1,465,416.24

Certain acreage within the watershed is proposed to be developed in the short term. The developments include the Lindley Run subdivision and Northpoint III. The developers of this acreage are, respectively:

- (1) Lindley Run Development, LLC
- (2) Northpoint Owners, LLC and Pinnacle Development, LLC; both in care of Chris White at Site Solutions Group, LLC; respectively.

Certain acreage within the watershed is presently under development. The Scofield Farms Subdivision is being developed by M/I Homes of Indiana, LP.

As previously stated, the stormwater runoff from certain acreage within the watershed was accommodated in the design of this project. The design assumed that stormwater detention facilities to the current standards of Hamilton County will be constructed as the acreage is developed. As such, this acreage will have an existing stormwater outlet at the time the acreage is developed. This acreage is included in portions of the following parcels:

Parcel Number	Owner	Total Acreage	Acreage within watershed
08-06-30-	Chance, Carolyn A & David Maurice Trustees Ronald E	70.00	40.00
00-00- 007.00	Chance Family Trust Exempt Share 1/2 int & Caroyln A &	Minutes de la constante de la	
	Chance Fairing Trust Exempt Share 1/2 lift & Carbyin A &		

	Ronald E Chance Trustees of Carolyn A Chance Lvg Trust 1/2 int		
08-06-30- 00-00- 009.00	Roberts, Leanna K	79.74	59.74
08-06-20- 00-00- 023.00	Roberts, Joseph G	77.90	18.96

Under previous discussion and agreements between M/I Homes of Indiana, LP and the Hamilton County Surveyor's Office during the approval process of the Scofield Farms subdivision, M/I Homes of Indiana, LP is responsible for the following work across the Scofield Farms development (refer to email between Weihe Engineers and Hamilton County Surveyors's office dated February 28, 2017 and Hamilton County Surveyor's Office Plan Review Letter for Scofield Farms Section 1 dated March 28, 2017):

- 1. The regulated drain west of the existing power line easement will be cleared of vegetation within an area 20-feet on either the north or south side of the existing open ditch and the open ditch regraded.
- 2. East of the electric line easement, the existing regulated drain will be cleared of log-jams, dams, and fallen limbs between the tops of bank.
- 3. Converting the existing regulated drain tile to an open ditch.
- 4. While not specifically outlined in the referenced email and referenced plan review letter, the following work is ancillary to the agreed scope of work and has been included in the cost:
 - a. Demolish the existing regulated drain tile
 - b. Installation of 20-foot filter strip
 - c. Rip-rap revetment for surface drainage ways
 - d. Construction of 5-foot bottom surface water swale with 4:1 side slopes
 - e. Seeding of disturbed areas
 - f. Surface water pipes
 - g. Clearing of small diameter trees and woody vegetation that was not cleared as part of the clearing performed under separate contract
 - h. A portion of the topographic survey work completed by Weihe Engineers under contract with Hamilton County Drainage Board needed for the design for dredging the existing open ditch and for converting the existing regulated drain tile to an open ditch.

The value of this work is estimated to be \$157,513.48 based on the following:

- 1. Clearing under previous contract: 1.06-acres of total 3.23-acres equal to \$32,840.00
- 2. Surveying: 3,623.83-feet of total 7,348-feet equal to \$4,266.18

3. Construction: \$120,407.30

Based on this estimate, the rate per acre would be \$2,163.05.

The remainder of the total project cost, \$1,307,902.76, shall be assessed equally by acreage over the remainder of the properties that benefit from the reconstruction project. The total acreage to be assessed is 304.90-acres. Based on this estimate, the rate per acre would be \$4,289.61. The following outlines the acreage by owner and the respective assessment:

Owner/Developer	Acreage	Total Cost
Lindley Run Development, LLC [portions of which are owned by Thomas Goins]	106.43	\$456,543.43
Northpoint Owners, LLC and Pinnacle Development, LLC [portions of which are owned by Carey Corp. and portions of which are owned by Leanna K Roberts]	79.77	\$342,182.36
Chance, Carolyn and David	40.00	\$171,584.49
Roberts, Leanna	59.74	\$256,261.43
Roberts, Joseph	18.96	\$81,331.05

The final costs to be assessed shall be based on the actual construction contract amounts and any approved change orders.

As discussed at the April 8, 2019 meeting of the Drainage Board, Lindley Run Development, LLC, Northpoint Owners, LLC and Pinnacle Development, LLC (both in care of Chris White at Site Solutions Group, LLC), and M/I Homes of Indiana, LP (collectively, "Developers") shall provide a financial guarantee surety that is acceptable to the Hamilton County Drainage Board. The Surety shall be payable to the Hamilton County Drainage Board in the amount of 100% of the amounts listed previously as surety of the financial obligation to repay Hamilton County for any monies expended by the County on behalf of the Developers in association with this reconstruction in the event of non-payment by the Developers.

As discussed at the May 13, 2019 meeting of the Drainage Board, payment by the Developers shall be over a five (5) year period starting in 2020.

As discussed at the May 13, 2019 meeting of the Drainage Board, payment by the following property owners, or their successors in title, for work completed as a part of this reconstruction project shall be deferred until such time as the properties are developed or are designated as right-of-way. In the event that such development occurs within a period of twenty (20) years from the completion date of the reconstruction project, this deferred assessment shall be billed to these property owners, or their

successors in title, with the entire payment due when the first section of any development of the respective property is recorded.

Parcel Number	Owner
08-06-30-00- 00-007.00	Chance, Carolyn A & David Maurice Trustees Ronald E Chance Family Trust Exempt Share 1/2 int & Caroyln A & Ronald E Chance Trustees of Carolyn A Chance Lvg Trust
08-06-30-00- 00-009.00	Roberts, Leanna K
08-06-20-00- 00-023.00	Roberts, Joseph G

I believe that no damages will result to landowners by the reconstruction of this drain. Therefore, damages shall be set at \$0.00.

I recommend that a hearing be held for this matter on June 24, 2019.

Sincerel

Kenton C. Ward, CFM Hamilton County Surveyor

KCW/pll

To: Hamilton County Drai	nage Board	
Re: In the matter of the	Ellis Barker	_ Drain Petition
Comes now the undersi 9-27, for the reconstruction	gned individuals, who petition the of the above referenced regulate	te Hamilton County Drainage Board, per IC 36- ed drain. The undersigned believe the following:
They are owners affected by the d		or more of land area alleged by the petition to be
2. That as property	owners within the drainage shed	, they are qualified petitioners.
3. That they now d	esire that a regulated drain be rec	onstructed in <u>Washington</u> Township.
made a part here area is located ir Indiana.	of, and marked Exhibit "A", whing section 29, township 1	the proposed public drainage are attached hereto, ch area of land involved in the proposed drainage 9 north, range 4 east, Hamilton County,
5. That the propose	ed reconstruction consists of the	existing 1905 farm field tile to an open ditch/storm sewer
system that will pr	ovide more in drain capacity for the	large amount of proposed development in the area.
		•
improvement wi benefited thereb 7. That in the opin	ll be less than the benefits which y.	mages, and expenses of the proposed will result to the owners of the land to be 1 improvement will improve the public health;
•		Il legal costs including engineering expense if the
8. That Petitioners petition is dismi		in legal costs including engineering expense it me
9. Petitioners shall improvement is		he cost of notice and all legal costs in the case the
Signature	Printed Name	Printed Address
Jany a lox	Larry A. Cox	Brookhaven, 64 30319
		Brookhaven, GH 30319
		,
	A A A A A A A A A A A A A A A A A A A	
	AND THE PROPERTY OF THE PROPER	
	water	

FINDINGS AND ORDER

CONCERNING THE PARTIAL VACATION OF THE

Ellis Barker Drain Reconstruction

Station 11+86 to Station 25+05 Station 0+00 to Station 6+06 (Arm 2)

On this 22^{nd} day of July, 2019, the Hamilton County Drainage Board has held a hearing on the Maintenance Report and Schedule of Assessments of the Ellis Barker Drain Reconstruction (Station 11+86 to Station 25+05 and Station 0+00 to Station 6+06 of Arm 2).

Evidence has been heard. Objections were presented and considered. The Board then adopted an order of action. The Board now finds that the costs of continued maintenance to the portion of the above drain exceed the benefits to the real estate benefited by the portion of the drain to be abandoned and issues this order vacating the above section of the Ellis Barker Drain Reconstruction (Station 11+86 to Station 25+05 and Station 0+00 to Station 6+06 of Arm 2).

Mul Me President	
Went blood	
Member	

HAMILTON COUNTY DRAINAGE BOARD

Attest: Liputhe Mosbaugh

Relud

STATE OF INDIANA)
) ss:

COUNTY OF HAMILTON)

IN THE MATTER OF THE
RECONSTRUCTION OF THE

Ellis Barker Drain Reconstruction

BEFORE THE HAMILTON COUNTY DRAINAGE BOARD NOBLESVILLE, INDIANA

FINDINGS AND ORDER FOR RECONSTRUCTION

The matter of the proposed Reconstruction of the *Ellis Barker Drain Reconstruction* came before the Hamilton County Drainage Board for hearing *on July 22, 2019*, on the Reconstruction Report consisting of the report and the Schedule of Damages and Assessments. The Board also received and considered the written objection of an owner of certain lands affected by the proposed Reconstruction, said owner being:

Evidence was heard on the Reconstruction Report and on the aforementioned objections.

The Board, having considered the evidence and objections, and, upon motion duly made, seconded and unanimously carried, did find and determine that the costs, damages and expenses of the proposed Reconstruction will be less than the benefits accruing to the owners of all land benefited by the Reconstruction.

The Board having considered the evidence and objections, upon motion duly made, seconded and unanimously carried, did adopt the Schedule of Assessments as proposed, subject to amendment after inspection of the subject drain as it relates to the lands of any owners which may have been erroneously included or omitted from the Schedule of Assessments.

The Board further finds that it has jurisdiction of these proceedings and that all required notices have been duly given or published as required by law.

Wherefore, it is ORDERED, that the proposed Reconstruction of the *Ellis Barker Drain Reconstruction* be and is hereby declared established.

Thereafter, the Board made inspection for the purpose of determining whether or not the lands of any owners had been erroneously included or excluded from the Schedule of Assessments. The Board finds on the basis of the reports and findings at this hearing as follows:

HAMILTON COUNTY DRAINAGE BOARD
PRESIDENT

Member

Member

ATTEST: Firette Mashure Executive Secretary

Carey Corporation 1631 Canopy Chase Northeast Brookhaven, Georgia 30319

June 19, 2019

Via email and hand delivery

Hamilton County Drainage Board
One Hamilton County Square, Suite 188
Noblesville, Indiana 46060-2230
surveyor@hamiltoncounty.gov

Re: Ellis Barker Drain Assessments - Parcels 08-06-19-00-00-006

through 009

Dear Board Members:

Carey Corporation is a very small, family owned Subchapter S corporation (owned by my sister, me, and family trusts), that owns the four parcels listed above, which total approximately 80 acres (the "Land"). The Land initially was homesteaded by our family in 1858 and has been farmed ever since. On June 1, I received four Notices of Hearing on Reconstruction & Schedule of Assessments and Damages (the "Notices") on the Ellis Barker Drain showing our share of the cost of proposed drainage improvements to be \$342,182.36 (the "Assessment").

We currently have a contract for the sale of the Land with Pinnacle Development LLC, with anticipated closing dates in 2020 and 2021. At the request of Chris White, who with Mick Scheetz are principals in Pinnacle, I signed a petition over a year ago supporting improvement of the Ellis Barker drain so that Pinnacle can move forward with their proposed development and purchase of the Land. Improved drainage is needed in this area, and Chris White assured me that any assessed drainage costs would be paid by the developers of our Land. However, based on the Notices, the Funding Report, and a draft of Chris White's letter to you dated May 30, we are concerned about who is obligated to pay the Assessment and when the Assessment must be paid.

The Project Funding report lists Northpoint Owners, LLC and Pinnacle Development, LLC as the developers and states that they are liable for payment of the Assessment over five years beginning in 2020 and

would also need to provide a surety bond. We understand that Pinnacle is requesting a deferral of payment for up to five years, as well as release from the obligation to provide a surety bond. The Notices I received, however, are addressed to Carey Corporation and make no reference to a timeframe for payment of the Assessment. My understanding is that as the owner of the Land, Carey Corporation will be responsible for the entire Assessment in 2020. Carey Corporation will not be developing the Land and does not have the financial wherewithal to pay the Assessment in 2020.

The Project Funding report acknowledges that there are neighboring family controlled properties, including the Chance and Roberts Family properties, which are also subject to assessment for the drainage improvements. However, the assessments on those properties are being deferred for 20 years or until such time as the properties are developed. While we do have a contract with Pinnacle, no development has occurred and Pinnacle has not purchased any of the Land. As such, we respectfully request that as the owner of the Land we are afforded the same payment option as these other neighboring family controlled properties with payment deferred for twenty years (at no interest), unless the Land is developed prior to such time. Any agreement the Board reaches with Pinnacle could be effective after Pinnacle purchases the Land.

As I have already stated, we understand the need for the Project, however, we are not able to pay the Assessment without some accommodations with respect to the timing of the due date of the Assessment. We do not want to object to the project, but may have no option if we do not have a payment deferral similar to that given to the neighboring family-controlled properties.

My sister and I truly hope that reasonable accommodations can be made so that this worthwhile project can move forward. Thank you for your thoughtful consideration.

Best.

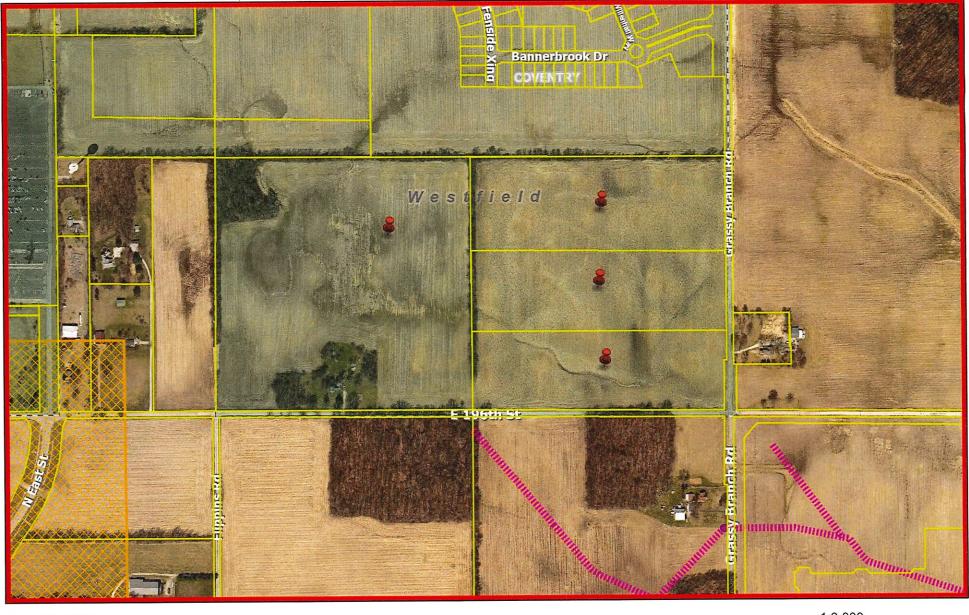
Larry A. Cox, President

Jany a lox

662-832-5475

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Ellis Barker Drain, Carey Corporation



June 19, 2019

Parcels

State Highways

Lakes & Reservoirs

Subdivisions

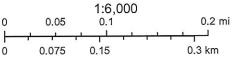
Major Roads

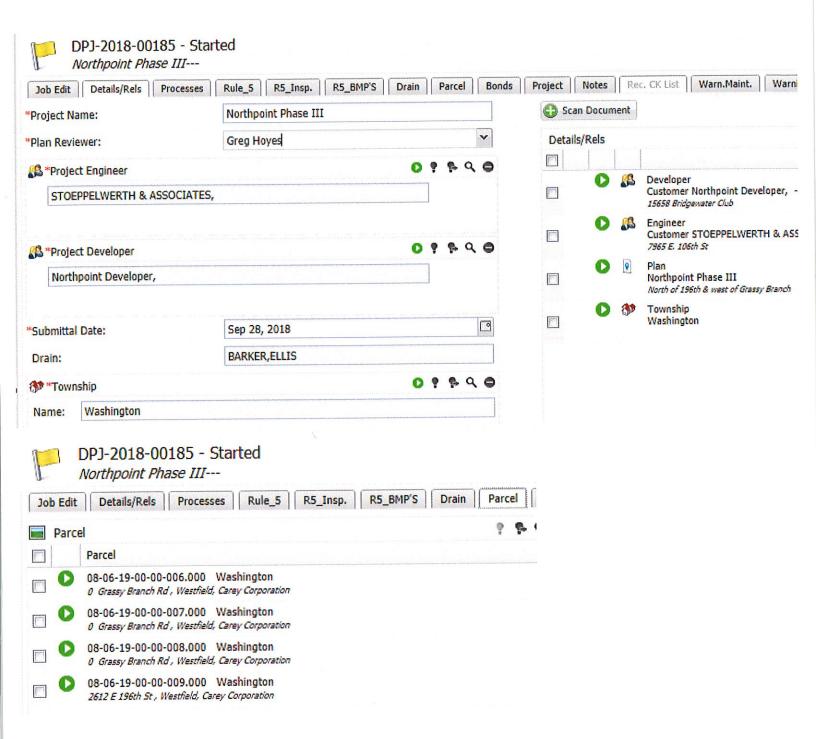
Rivers & Streams

Interstates & US Highways

Minor Roads

Corporate Limits (Outline)





Parcel	Owner	Desc1	Benefit	Reconstruction	Percentage
08-06-19-00-00-006.000	Carey Corporation	S19 T19 R4 14.70 Ac	14.70	\$63,057.30	4.82%
08-06-19-00-00-007.000	* '	S19 T19 R4 12.63 Ac	12.63	\$54,177.80	4.14%
08-06-19-00-00-008.000	•	S19 T19 R4 12.44 Ac	12.44	\$53,362.77	4.08%
08-06-19-00-00-009.000	Carey Corporation	S19 T19 R4 40.00 Ac	40.00	<u>\$171,584.49</u>	<u>13.12%</u>
DPJ-2018-00185	Northpoint Developer		79.77	\$342,182.36	26.16%

Ronald E. Chance Family Trust Exempt Share ½ Interest David M. Chance Trustee

&

Carolyn A. Chance Living Trust ½ Interest David M. Chance Trustee
19303 Flippins Rd.
Westfield, IN 46074
6/15/2019

Hamilton County Drainage Board One Hamilton County Square, Ste. 188 Noblesville, IN 46060-2230

In response to the proposed reconstruction and schedule of assessments and damages on the Ellis Barker Drain Reconstruction (Sly Run Drainage Shed) that affects Parcel: 08-06-30-00-00-007.000, I would fully support this project ONLY on the basis that there is written clarification part of the public record regarding "Deferred Assessments will be due upon the development of any portion of the designated parcel". This language is critical for our protection in the event we choose not to develop this parcel in the near future and would happen to receive a reconstruction assessment on our property taxes for \$171,584.49 prior to either the sale or development of the property. The existing Ellis Barker Drain has been in a bad state of repair for a number of years and certainly needs updated based on the future development potential of the watershed. I applaud the Hamilton County Drainage Board for looking down the road and installing drainage infrastructure that will accommodate future development potential but feel it's important to clarify "Deferred Assessments" so there is no confusion regarding a current landowner's tax obligation to this drain's reconstruction.

Regards,

David M. Chance, Trustee

(317) 443-8365

chancefarms@earthlink.net

Janet M. Hansen

From:

Dave <chancefarms@earthlink.net>

Sent:

Wednesday, June 19, 2019 5:37 PM

To:

Janet M. Hansen

Subject:

RE: Ellis Barker deferred assessment

Good afternoon Janet,

Thanks for the clarification. I likely will attend the hearing on Monday and probably will address this clarification, "or are designated as right-of-way", so it will be part of the minutes and would mitigate possible future confusion. Thanks again for all your help! Have a good evening.

Regards,

Dave

----Original Message-----From: "Janet M. Hansen" Sent: Jun 18, 2019 3:07 PM

To: Dave

Subject: RE: Ellis Barker deferred assessment

Hello Dave,

The reason we have "or are designated as right-of-way" in the report is because there is currently a parcel owned by Lindley Run Development with 4.34 acres. That parcel parallels 196th on the south side and Grassy Branch on the east side. That 4.34 acres will be assessed even if it changes to right-of-way. You parcel is southeast of 196th & Flippins Road. The entire 40 acres within the drainage shed will be assessed in the future when it develops.

Respectfully,

Janet Hansen, Administrative Assistant Hamilton County Surveyor's Office

From: Dave <chancefarms@earthlink.net> Sent: Monday, June 17, 2019 9:25 PM

To: Janet M. Hansen < Janet. Hansen@hamiltoncounty.in.gov>

Subject: Re: Ellis Barker deferred assessment

Good evening Janet,

Thanks for responding to my letter. I have read through the entire report to the Board and for the most part am comfortable with the language regarding deferred assessment. There is one sentence that I would like to have more clarity on however. Where it states "As discussed at the May 13, 2019 meeting of the Drainage Board, payment by the following property owners, or their successors in title, for work completed as a part of this reconstruction project shall be deferred until such time as the properties are developed or are designated as right-of-way. The statement "or are designated as right-of-way" needs to be clarified. It would seem to me a little open ended and perhaps could be declared right-of-way which would force payment even if the affected property wasn't being developed. I would appreciate your insight on that statement.

Best Regards,

Dave Chance

----Original Message---From: "Janet M. Hansen"
Sent: Jun 17, 2019 1:35 PM
To: "chancefarms@earthlink.net"

Subject: Ellis Barker deferred assessment

Hello Mr. Chance,

I received your letter to the Hamilton County Drainage Board this morning regarding the proposed Ellis Barker deferred assessment. Here is the link to the report to the Board. The last paragraph on page 15 explains how the deferred assessment is proposed to work if the Board approves the report at the hearing.

"As discussed at the May 13, 2019 meeting of the Drainage Board, payment by the following property owners, or their successors in title, for work completed as a part of this reconstruction project shall be deferred until such time as the properties are developed or are designated as right-of-way. In the event that such development occurs within a period of twenty (20) years from the completion date of the reconstruction project, this deferred assessment shall be billed to these property owners, or their successors in title, with the entire payment due when the first section of any development of the respective property is recorded."

https://www.hamiltoncounty.in.gov/DocumentCenter/View/13297/EllisBarkerDrainReconstruction

Please review the report and let me know if you need anything else.

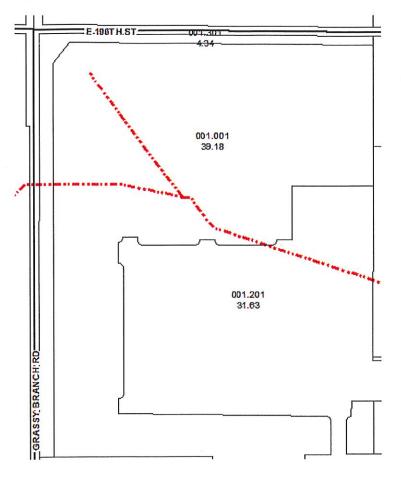
Respectfully, Janet Hansen, Administrative Assistant Hamilton County Surveyor's Office

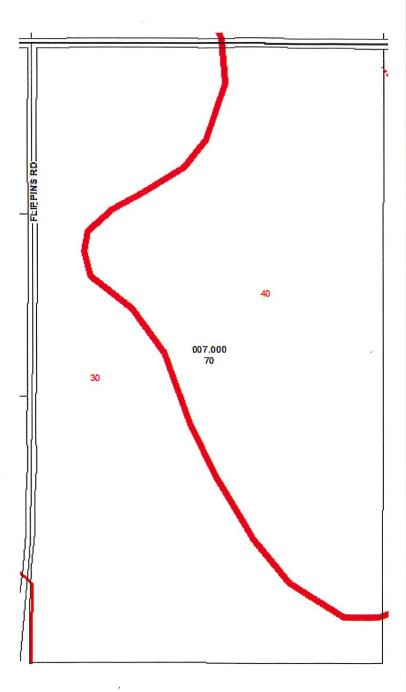
The information in this email may contain confidential information and is intended solely for the attention and use of the named addressee(s). It must not be disclosed to any person(s) without authorization. If you are not the intended recipient, or a person responsible for delivering it to the intended recipient, you are not authorized to, and must not disclose, copy, distribute, or retain this message or any part of it. If you have received this communication in error, please notify the sender immediately.

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The reason we added the verbiage "or are designated as right-of-way" is because parcel 08-06-29-00-00-001.301 owned by Lindley Run parallels 196th on the south side and Grassy Branch Road on the east side. This parcel may become right-of-way before the plat or at the same time as the plat. Whoever owns the parcel/ROW at the time we certify the reconstruction will be assessed the reconstruction assessment.

Mr. Chance has 70 acres and 40 of those acres will have the deferred assessment. If the City of Westfield takes more right-of-way for 196th would the city pay for that portion of the deferred assessment? If any part of the 40 acres is developed, should the developer pay the entire 40 acres or just the acreage within the shed boundary that are being assessed.





BEFORE THE HAMILTON COUNTY DRAINAGE BOARD IN THE MATTER OF

Ellis Barker Drain Reconstruction

NOTICE

То	Whom	Ιt	May	Concern	and:	
						

Notice is hereby given of the hearing of the Hamilton County Drainage Board concerning the reconstruction of the Ellis Barker Drain Reconstruction on June 24, 2019 at 9:00 A.M. in Commissioners Court, Hamilton County Judicial Center, One Hamilton County Square, Noblesville, Indiana. Construction and maintenance reports of the Surveyor and the Schedule of Assessments proposed by the Drainage Board have been filed and are available for public inspection in the office of the Hamilton County Surveyor.

Hamilton County Drainage Board

Attest: Lynette Mosbaugh

ONE TIME ONLY

STATE	OF	INDIANA)					
)	SS	BEFORE	THE	HAMILTO	N
)					
COUNTY	OF	HAMILTON	()		DRAINA	GE BO	DARD	

IN THE MATTER OF Ellis Barker Drain Reconstruction

NOTICE

Notice is hereby given that the Hamilton County Drainage Board at its regular meeting July 22, 2019 adopted the reconstruction report of the Surveyor and the Amended Schedule of damages and assessments including annual assessment for periodic maintenance, finding that the costs, damages and expense of the proposed improvement would be less than the benefits which will result to the owner of lands benefited thereby.

The Board issued an order declaring the proposed improvement established. Such findings and order were marked filed and are available for inspection in the Office of the Hamilton County Surveyor.

If judicial review of the findings and order of the Board is not requested pursuant to Article VIII of the 1965 Indiana Drainage Code as amended within twenty (20) days from the date of publication of this notice, the findings and order shall become conclusive.

HAMILTON COUNTY DRAINAGE BOARD

BY: Christine Altman
PRESIDENT

ATTEST: Lynette Mosbaugh
SECRETARY





Kenton C. Ward, CFM Surveyor of Hamilton County Phone (317) 776-8495 Fax (317) 776-9628 Suite 188 One Hamilton County Square Noblesville, Indiana 46060-2230

September 7, 2022

To: Hamilton County Drainage Board

Re: Reconstruction of the Ellis Barker Arm, Sly Run Regulated Drain Final Inspection Report

FINAL REPORT

This is the inspector's final report on the Reconstruction of the Ellis Barker Arm of the Sly Run Regulated Drain, located in Section 29, Township 19 North, Range 4 East, in Washington Township in Hamilton County, Indiana.

At the February 26, 2018 meeting the Hamilton County Drainage Board awarded a contract to survey the Ellis Barker Arm of the Sly Run Regulated Drain to Weihe Engineering in the amount of \$8,650.00 (Hamilton County Drainage Board Minute Book 18, Page 63.)

At the April 8, 2019 meeting the Hamilton County Drainage Board discussed the development of the Ellis Barker watershed, developers and the methods of paying for the reconstruction. (Hamilton County Drainage Board Minute Book 18, Page 408.)

At the April 22, 2019 meeting the Hamilton County Drainage Board awarded the quote for grinding the debris from the clearing of the drain to Tristate Forestry Services, Inc. in the amount of \$38,00.00. Tristate was the only quote received. (Hamilton County Drainage Board Minute Book 18, Page 414.)

At the May 13, 2019 meeting the Hamilton County Drainage Board set the date for the Ellis Barker hearing and taking bids for the reconstruction project for June 24, 2019. Interest rates and deferred assessments over a period of five (5) years were also discussed. (Hamilton County Drainage Board Minute Book 18, Pages 423- 425.)

At the May 28, 2019 meeting the Hamilton County Drainage Board set June 24, 2019 as the date for the reconstruction hearing. (Hamilton County Drainage Board Minute Book 18, Page 452.)

At the June 24, 2019 meeting the Hamilton County Drainage Board opened the bids for the reconstruction of the Ellis Barker Drain. The three bids that were submitted are as follows:

Hoosier Pride

Base Bid: \$532,442.43 Alternate Bid: \$685,617.16

Morphey Construction Base Bid: \$348,000.00 Alternate Bid: \$614,000.00

Millennium Contractors Base Bid: \$500,000.00 Alternate Bid: \$935,000.00

The bids were referred to the Surveyor's Office for review and for recommendation at the July 8, 2019 meeting. (Hamilton County Drainage Board Minute Book, 18, Page 469.)

At the June 24, 2019 meeting the Board held the hearing based on the Surveyor's Report dated May 16, 2019.

Engineer's Estimate: Base Bid: \$397,347.43 - Alternate Bid: \$951,918.81

The total cost of the project is estimated to be:

Reconstruction	\$1	,349,266.24
Clearing	\$	100,000.00
Weihe Topo Survey	\$	8,650.00
Stoeppelwerth Survey	\$	7,500.00
	\$1	,465,416.24

A discussion of the costs, deferred assessments, deferred collection, interest rates charged, and financial guarantees were discussed. During the public hearing representatives from the landowners assessed addressed the Board. Mr. Chance brought up questions about lands that were not being developed and would possibly remain as agricultural land that required further investigation by the Surveyor & Drainage Board Attorney. The public hearing was continued until July 22, 2019. (Hamilton County Drainage Board Minute Book18, Pages 480-494.)

At the July 8, 2019 meeting of the Hamilton County Drainage Board the Surveyor recommended awarding the contract to Morphey Construction in the amount of \$962,000.00. The Corps of Engineers had gotten involved, and a 404 Permit was deemed necessary. It was recommended to hold the contract for 90 days from the close of the hearing. (Hamilton County Drainage Board Minute Book 18, Pages 504 & 505.)

At the July 22, 2019 meeting of the Hamilton County Drainage Board the Surveyor entered into the record the amended Surveyor's Report. The public hearing was reopened, and Mr. Chance's questions were answered to his satisfaction. The public hearing was closed, and the reconstruction of

the Ellis Barker Drain was approved. (Hamilton County Drainage Board Minute Book 18, Pages 518-530.)

At the August 12, 2019 meeting easements from Thomas Goins and Lindley Run were accepted by the Board. (Hamilton County Drainage Board Minute Book 18, Page 544.)

At the August 26, 2019 meeting permitting problems with IDEM and the Corps of Engineers were discussed along with the possibility of having to change the design of the Ellis Barker Reconstruction project. The project was on hold until getting a response from IDEM and the Corps. (Hamilton County Drainage Board Minute Book 18, Pages 576-578.)

At the September 23, 2019 Drainage Board meeting the Board accepted the drainage easement from M/I Homes. The Board was also informed that the Surveyor's Office had received approval of the Corps of Engineers for the reconstruction leaving only to hear from IDEM. (Hamilton County Drainage Board Minute Book, 19, Page 20.)

At the October 14, 2019 Drainage Board meeting the Board was informed that the Surveyor's Office had received the 401 Certification, Individual Water Quality Certification from IDEM which was the last hurdle necessary before the reconstruction could begin. (Hamilton County Drainage Board Minute Book 19, Page 28.)

At the October 28, 2019 Drainage Board meeting the Board approved and awarded the contract for the reconstruction of the Ellis Barker Regulated Drain to Morphey Construction in the amount of \$962,000.00 for the Base Bid and Alternate Bid. (Hamilton County Drainage Board Minute Book 19, Pages 46-47.)

At the November 25, 2019 Drainage Board meeting the Board was informed that the preconstruction meeting had been held, structures were ordered and the contractor, Morphey Construction would start mobilizing to begin work after the first of December. (Hamilton County Drainage Board Minute Book 19, Page 72.)

At the December 19, 2019 meeting of the Hamilton County Drainage Board the Board approved Morphey Construction's Performance Bond # 7662211 in the amount of \$1,154,400.00. (Hamilton County Drainage Board Minute Book 19, Page 93.)

During the course of the work there were six (6) change orders. These are as follows:

Change Order # 1

At the December 19, 2019 Drainage Board meeting Change Order No. 1 was presented to and approved by the Board. Change Order No. 1 represents the changes necessary to obtain permits from IDEM and the Corps of Engineers. Change Order No. 1 added \$281,423.72 to the contract, while deducting \$208,557.00 from the contract, for a net change of adding \$72,866.72 to the contract. The various additions and deletions to the contract are associated with changing approximately 1,300 LF of proposed open regulated drain to a proposed regulated tile drain to minimize and/or avoid impacts to areas within the project limits identified by IDEM and the Corps as being environmentally sensitive.

ADDITION	NS	T 4-1 C4
Item #	trem Describuon	Total Cost
BB-18	6" Breather – 2 EA at \$990.00	\$ 1,980.00
BB-19	Bulkhead on 15" Tile – 2 EA at \$990.00	\$ 1,980.00
BB-20	18" CMP – 20 LF at \$90 per foot	\$ 1,800.00
BB-21	19" Animal Guard = 1 at \$100.00 EA	\$ 100.00
BB-22	15" Dual Wall Non-Perforated Pipe, HDPE – 43 LF at \$85 per foot	\$ 3,655.00
BB-23	15"x15" Dual Wall, HDPE Fittings – 2 EA at \$200.00 EA	\$ 400.00
BB-24	6" Dual Wall, Non-Perforated HDPE – 5 LF at \$50.00 per foot	.\$ 230.00
BB-25	6" HDPF Can = 1 FA at \$50.00	.\$ 50.00
BB-26	Core Drill 48" RCP for 18" HDPE Pipe – 1 EA at \$2,000.00 EA	\$ 2,000.00
BB-27	Core Drill 48" RCP for 6" HDPE Pipe – 1 EA at \$1,200.00 EA	\$ 1,200.00
AB-24	48" RCP Pipe – 1,572 LF at \$152.51 per foot	\$ 239,745.72
	Inlet Protection – 6 EA at \$125.00 EA	\$ 750.00
AB-25	injet Flotection – 6 LA at \$123.00 Er	
Total Addi	tional Items in Change Order #1	\$ 253,910.72
OHANTIT	Y INCREASE – The following represents increases in each line item:	
Item #	Item Description	Total Cost
BB-MI-3	Filter Strip - Sta 33+35.61 to Sta 46+24.8301 ACRE	\$ 98.00
BB-MI-7	Dredge Existing Open Ditch Sta 33+35.61 to 36+97.49	\$ 1,715.00
AB-9	96" Manhole with Casting – 2 EA at \$7,000.00	.\$ 14,000.00
AD-7	3" Manhole with Casting – 1 EA at \$11,700.00	.\$ 11,700.00
AB-10 100	Wallfold with Casting 1 Litut \$11,70000	
Total Incre	ease Items in Change Order #1	.\$ 27,513.00
DELETIO	NS	
Item #	Item Description	Total Cost
	Fence Removal and Repair – 2 EA at \$1,800.00 EA	.\$ -3,600.00
BB-2	4' Bottom Ditch – 1,478 LF at \$25.00 per foot	.\$ -36,950.00
BB-3	10"x20' CMP w/ Animal Guard – 1 EA at \$1,600.00 EA	. \$ -1,600.00
BB-8	18"x18" Dual Wall Pipe Fitting – 3 at \$1,400.00 EA	
BB-10	V-Bottom Surface Swale – 222 LF at \$36.00 per foot	
BB-12	5' Bottom Ditch – 763 LF at \$43.00 per foot	
AB-2	Erosion Control Blanket – 7,812 SYS at \$3.25 per SY	
AB-3	48" RCP Pipe – 282 LF at \$165.00 per foot	.\$ -46,530.00
AB-22	48" RCP Pipe – 282 LF at \$103.00 per 100t	. ф
Total Dele	eted Items in Change Order #1	.\$ -159,070.00
OTTANITI	TY DECREASE	
-	Item Description	Total Cost
Item #	Demolish Existing Regulated Drain – 659 LF at \$10.00 per foot	\$ -6,590.00
BB-1	Filter Strip – 0.67 ACRE at \$12,000.00 per ACRE	-
BB-5	Piller Strip - 0.07 ACKE at \$12,000.00 per ACKE	
BB-6	Revetment Riprap – 142 Tons at \$80.00 per Ton	
BB-7	Seeding 1.05 ACRES at \$5,800.00 per ACRE	•
BB-9	18' Dual Wall Non-Perforated Pipe – 44 LF at \$74.00 per foot	
BB-11	Surface Water Pipes – 4 at \$1,800 EACH	
BB-MI-1	Demolish Existing Regulated Drain – 7 LF at \$16.00 per foot	\$ -1,104.00
BB-MI-2	4' Bottom Ditch – 46 LF at \$24.00 per foot	1,104.00

BB-MI-4 BB-MI-5	Revetment Riprap – 39 TONS at \$122 per ton\$ Seeding – 0.15 ACRE at \$7,500 per acre\$	-4,758.00 -1,125.00		
Total Quar	ntity Decrease Items in Change Order #1\$	-49,487.00		
Change Order Summary				
Total Additions to Contract by Change Order #1\$ Total Deletions to Contract by Change Order #1\$ Net Cost of Change Order #1\$		-200,337.00		
Contract S	Summary			
Engineer's	Estimate (Drainage Board Record Book 18, Pages 480-494\$1	,349,266.24		
Original C	ontract Amount\$	962,000.00		
Change Or	rder #1\$	72,866.72		
Contract Amount after Change Order #1\$1,034,866.72				
Contingency Summary				
Contingen	cy \$	144,300.00		
Total Char	nge Orders to Date\$	72,866.72		
Contingen (Hamilton	cy Balance\$ County Drainage Board Minute Book 19, Pages 89-91.)	71,433.28		
Change O	Order #2			
At the February 24, 2020 meeting of the Hamilton County Drainage Board the Board was presented with and approved Changer Order No. 2. Change Order No. 2 was necessary due to 3 additional tiles that were found during the reconstruction that needed to be connected to the new Reinforced Concrete Pipe (RCP).				
3 addition	al tile connections at \$250 each - Total Change Order #2, \$750\$	750.00		
Engineer's	s Estimate\$	1,349,266.24		
Change O Change O	3id stder #1 stder #2 onstruction Costs \$	12,800.12		
Difference (Hamilton	\$\$ I County Drainage Board Minute Book 19, Page 156.)	313,649.52		

Change Order #3

At the April 13, 2020 meeting of the Hamilton County Drainage Board the Board was presented with and approved Changer Order No. 3. Change Order No. 3 was necessary due to 3 additional tiles that were found during the reconstruction that needed to be connected to the new Reinforced Concrete Pipe (RCP).

3 additional tile connections at \$1,200 each – Total Change Order #3, \$3,600 \$	3,600.00
Engineer's Estimate\$1	,349,266.24
Contract Bid	962,000.00
Difference\$ (Hamilton County Drainage Board Minute Book 19, Pages 184-185.)	310,049.52

Change Order #4

At the August 10, 2020 meeting of the Hamilton County Drainage Board the Board was presented with and approved Changer Order No. 4. Change Order No. 4 was necessary due to adding a second Construction Entrance, additional riprap, additional 18" CMP and animal guard, 2 additional tile connections and the deletion of 1-60" manhole.

ADDITIO		Cos	ot.		
Item #	Description		2,400.00		
BB-4	Secondary Construction Entrance on Lindley Run Site	ψ 2	1,172.80		
BB-6	Revetment Riprap – 14.66 Tons at \$80 per Ton	ψ Φ	990.00		
BB-19	Bulkhead 15" Tile	φ. Ψ	1,800.00		
BB-20	18" CMP	Φ.	100.00		
BB-21	18" Animal Guard	Φ.	200.00		
BB-23	15" Dual Wall 45° Elbow	Φ Φ	500.00		
BB-24	2 additional tile connections at \$250 Each	Φ Φ	10,166.26		
BB-MI-4	Revetment Riprap – 83.33 Tons at \$122 per Ton	.Ф Ф	500.00		
AB-25	Inlet Protection	Ф	300.00		
Total Addi	ition Items	\$	17,829.06		
DELETIO AB-6	NS 1 60" Diameter Manhole	\$	-4,300.00		
Total Char	nge Order #4	\$	13,529.06		
Engineer's Estimate					

Contract Bid\$	962,000.00
Change Order #1	750.00
Change Order #4	13,529.06
Total Reconstruction Costs \$	1,052,745.78
Difference\$ (Hamilton County Drainage Board Minute Book, 19, Page 285.)	296,520.46

Change Order #5

At the August 10, 2020 meeting of the Hamilton County Drainage Board the Board was presented with and approved Changer Order No. 5. Change Order No. 5 was required due to problems encountered in installing the 30" Reinforced Concrete Pipe across the intersection of Grassy Branch and 196th St. additional time and material required to properly bed the 36" RCP between Structures 409 & 410 due to encountering sugar sand and the modification of Structure 411.

ADDITIONS

Road Cut Protection for 3 extra days\$	2,739.15
Temporary Backfill	6,966.02
Concrete Patch of Road Cut	7,544.37
Concrete Patch of Road Cut	4,934.66
Sugar Sand Undercut	531.26
Modify Structure 411	
Total Change Order #5\$	22,715.46
Engineer's Estimate\$1	1,349,266.24
Contract Bid	962,000.00
Change Order #1	72,866.72
Change Order #2	750.00
Change Order #3	3,600.00
Change Order #4	13,529.06
Change Order #4 Change Order #5	22,715.46
Change Order #3	
Total Change Order #5\$	1,075,461.24
	273,805.00
(Hallimon County Dramage Board Minimo 2004, 27, 2 18	

Change Order #6

At the March 8, 2021 meeting of the Hamilton County Drainage Board the Board was presented with and approved Changer Order No. 6. Change Order No.6 was required to delete Items BB-11 & BB-MI-6 which were surface water pipes that were not required to do the project.

DELETIONS

T II	Description	Co	st
Item #	Description Surface Water Pipes – 4 at \$1,800 each	\$	-7,200.00
BB-11	Surface Water Pipes – 4 at \$2,000 each	\$	-8,000.00
BB-MI-6	Surface water ripes – 4 at \$2,000 each	1500	
m . 1.01	nge Order #6	\$	-15,200.00
Total Char	ige Order #6		,
	To de la companya della companya del	\$1	,349,266.24
Engineer's	Estimate		,
_ ~		\$	962,000.00
Contract E	did	\$	72,866.72
Change Or	rder #1	2	750.00
Change Or	rder #2	2	3,600.00
Change O	rder #3	Ψ	13,529.06
Change Or	rder #4	Ψ	,
Chamas	ndon #5	Ф	,
Change O	rder #6	10	-15,200.00
Total Reco	onstruction Costs	\$1	,060,261.24
		4	200 005 00
Difference	·	\$	289,005.00
(Hamilton	County Drainage Board Minute Book 19, Page 545.)		
(* IMITITION			

At the July 26, 2021 meeting of the Hamilton County Drainage Board the Surveyor requested a partial release of the retainage being held per IC 36-9-27-81. With the project setting idle for over a year because of conflicts with Frontier and now the City of Westfield's closing of the northern end of Grassy Branch and the project being 95% complete the Surveyor requested the Board to release all but \$44,000 of the \$111,567.45 retainage being held. The Board approved the request. (Hamilton County Drainage Board Minute Book 20, page 112).

At the February 14, 2022 Hamilton County Drainage Board Meeting was informed that the project was finally complete, and the Surveyor's Office was able to establish what the final assessment rate is. The deferred assessment rate based on the final cost of the reconstruction for certain acreage within the Ellis Barker Drainage Shed is \$3,413.25 per acre. The Board approved the rate. (Hamilton County Drainage Minute Book 20, Page 293.)

The breakdown of the final cost are as follows:

Description		Date Pd	Pd by	Actual Cost	Deferred Assessment	MI Homes
Weihe	Survey	4/24/2018	Mnt#330	\$8,650.00		
Wente	Burrey	., = ., = .		\$8,650.00	\$4,383.82	\$4,266.18
Van Horn	Clearing	4/9/2019	Mnt#330	\$7,625.00		
Van Horn	Clearing	4/23/2019	Mnt#330	\$40,222.00		
Van Horn	Clearing	8/27/2021	Mnt#330	\$38,000.00		
Vaniton	0.000			\$85,847.00	\$57,672.01	\$28,174.99
	Paid	From	Maintenance	\$94,497.00		
Stoeppelwerth	Engineering		Lindley Run	\$7,500.00		

	Paid by	Olthof Homes	(Lindley Run)	\$7,500.00	\$7,500.00	
Morphey	PR#1	1/28/2020	GDIF	\$122,084.73		
Morphey	PR#2	3/10/2020	GDIF	\$187,270.18		
Morphey	PR#3	4/14/2020	GDIF	\$142,378.09		
Morphey	PR#4	4/28/2020	GDIF	\$268,526.56		
Morphey	PR#5	8/11/2020	GDIF	\$130,481.39		
Morphey	PR#6	8/25/2020	GDIF	\$ 11,499.70		
Morphey	PR#7	9/15/2020	GDIF	\$ 19,308.14		
Morphey	PR#8	8/10/2021	GDIF	\$111,567.45		
Morphey	PR#9	12/14/2021	GDIF	\$ 19,673.25		
Morphey	PR#10	1/14/2022	GDIF	\$ 47,471.75		
		Paid from	GDIF	\$1,060,261.10	\$964,658.98	\$95,602.26
		Grand	Total	\$1,162,258.10	\$1,034,214.81	\$128,043.43

The M/I Homes reconstruction portion of the project was complete as of Pay Request #5 dated July 20, 2020. Their final cost consisted of \$4,266.18 for survey; \$28,174.99 for clearing; and \$85,436.00 for construction. An invoice dated February 24, 2021 was sent to them for \$117,877.17. The payment for their portion was received on April 13, 2021 and was placed into the General Drain Improvement Fund 1158 designated as Ellis Barker D034. While closing out the remainder of the project it was discovered that extra riprap was used on the M/I Homes property (Scofield Farms). Change Order No. 4 was approved for an additional \$10,166.26 to be added to M/I Homes assessment. An invoice for this amount was emailed to Matt Howard & Keith Blais of M/I Homes on February 8, 2022. The payment for the change order was received on March 10, 2022 and was placed into the General Drain Improvement Fund 1158 designated as Ellis Barker D034.

The deferred assessment is the main project that is to be deferred until the recording of a plat or dedication of right-of-way or change of land use to commercial property. The original assessment roll showed 304.90 acres to be deferred. However, there was 1.90 acres included in the acres benefited for parcel 08-06-20-00-00-023.000 owned by Joseph Roberts that should be excluded because it was an existing developed parcel. The new acreage of the deferred area is 303 acres. The total cost for the main project is \$1,034,214.81 and the rate per acre will be \$3,413.25 for the 303 acres.

Lindley Run was platted on August 31, 2020 and the recorded plat indicates 107.00 acres. It was platted from parcels owned by Thomas Goins and Lindley Run Development with 106.43 acres benefitted at the time of the hearing. Lindley Run Development LLC will be invoiced for the entire 106.43 acres per hearing. They will be given a \$7,500 credit (per report to Board in 07/22/19 minutes) for the topographic survey they paid Stoeppelwerth & Associates to complete. The survey was used to design the tile portion of this reconstruction. Lindley Run Development LLC will be assessed \$363,272.20 but will be billed \$355,772.20 after the credit is applied.

Of the remaining seven parcels containing 196.57 acres, five parcels will have their acres benefited reduced because of right-of-way splits. The Hamilton County Highway Department will be assessed 0.15 acres and the City of Westfield will be assessed 5.16 acres taken for right-of-way.

	Hearing Ben	Hearing Assmt	Current Ben	Final Assmt		
These 4 notified as Carey Corp. Now owned by Westfield DC 2019 LLC.						
08-06-19-00-00-006.000	14.70	\$ 63,057.30	13.81	\$ 47,136.98		
08-06-19-00-00-007.000	12.66	\$ 54,177.80	11.92	\$ 40,685.94		
08-06-19-00-00-008.000	12.44	\$ 53,362.77	10.41	\$ 35,531.94		
08-06-19-00-00-009.000	40.00	\$171,584.49	38.47	\$131,307.74		
		0.11				
Joseph G. Roberts (1.9 ac	removed-not	part of this parcel)	17.00	e 50.220.06		
08-06-20-00-00-023.000	18.96	\$ 81,331.05	17.06	\$ 58,230.06		
Notified as Leanna K. Ro	hanta Nassi asi	med by Joseph G	Roberts w/LE Thomas	& Marv		
	berts. Now ov	viied by Joseph C.	RODORS WILL THOMAS	, 20 1/1/1/		
Kathryn Roberts 08-06-30-00-009.000	59.74	\$256,261.43	59.59	\$203,395.58		
08-00-30-00-00-009.000	37.14	Ψ250,201.15		,		
Chance, Carolyn A. & Da	vid M. Truste	es				
08-06-30-00-00-007.000	40.00	\$171,584.49	40.00	\$136,530.00		
		10/07/00 DOW	1:4 Com 101St Pr Changer F	Propos 08-06-30-		
County Highway-Add 0.15 acres from 10/27/20 ROW split for 191st & Grassy Branch 08-06-30-						
00-00-009.000	0.00	\$ 0.00	0.15	\$ 512.00		
99-99-99-99-999.001	0.00	\$ 0.00	0.13	Ψ 512.00		
City of Westfield-Add 5.16 acres from 12/18/20 ROW split for 196th & Grassy Branch 08-06-19-						
00-00-006—009	to acres from	12/10/20 Xto 11 5P				
99-99-99-99-99-999.010	0.00	\$ 0.00	5.16	\$ 17,612.38		
77-77 - 77-77-77-777.010	0.00	-				
Totals:	198.47	\$851,359.33	196.57	\$670,942.62		
100000		•				

This will make the total deferred assessment \$1,034,214.82 minus \$7,500 credit for Lindley Run making \$1,026,714.82 to collect. Any surplus funds existing after the final deferred assessment is paid, shall be transferred to the Sly Run Drain #330 maintenance fund Per IC 36-9-27-85.

Lindley Run's property has been platted and the \$355,772.20 was paid on 3/24/2022. The assessments for the right-of-way splits for the City of Westfield (\$17,612.38) was paid on 03/17/2022 and the Hamilton County Highway Department (\$512.00) was paid on 03/29/2022.

This will leave 2 parcels owned by Roberts, 1 parcel owned by Chance and the 4 parcels proposed to be North Point Section 3 owned by Westfield DC 2029 LLC to have their assessment deferred. The deferred assessment will be on Proper Tax for Title Companies to see when searching properties. The deferred assessment will be against the property owners or their successors in title for work completed as a part of this reconstruction project.

The deferred assessment shall be paid upon a recording of any platting of the land in the watershed and will be payable upon approval of a plat, or when land use changes to commercial properties if allowed without the platting process. In the event a dedication of public right-of-way comes ahead of a platting process, the entity taking the public right-of-way will be required to pay the deferred assessment on the acreage taken within the deferred watershed. In the event that such development occurs within a period of 20 years from the completion date of the reconstruction project this deferred assessment shall be billed to these property owners or their successors in title with the entire payment due when the first section of any development of the respected property is recorded.

Ellis Barker Drain Reconstruction Summary

(Str. 407A-407) - 33' of 12" RCP at 2.15% (Str. 406A-406) - 30' of 12" RCP at 1.23% (Str 405A-405) - 29' of 15" RCP at 1.5% (Str. 404A-404) - 30.5' of 12" at 1.6%

The original Ellis Barker Drain was intercepted and re-routed for the Lindley Run Development at the southeast corner of 196th Street and Grassy Branch Road. The design of the relocation was done by Stoeppelwerth Engineers noted as Job No. 81635OLF-RD. The as-builts of those plans was done by the Surveyor's Office. The relocated drain is shown on Sheets C600 and C601 of the as-builts. The reconstruction of the drain in this area abandoned the original Ellis Barker Drain from approximately Station 11+86 to Station 25+05 of the main drain. Also abandoned in place was Arm 2 in its entirety. It should also be noted that the original Surveyor's Report to the Board called for the construction of an arm, the Northpoint Arm. This is listed below as structure 407C, 407B to 407. Installed with the pipe were 6 inlet structures, 14 manholes with solid lids, 1 concrete end section, and 1 outlet control structure. The new relocated portion of the drain in this area is as follows:

```
Northpoint Arm:
Main Line:
                                                 (Str. 407C - 407B) - 60° of 30" RCP at 0.58%
(Str. 411-410) - 25' of 36" RCP at 1.4%
                                                 (Str. 407B- 407) – 129' of 30" RCP: at 0.80%
(Str. 410-409) - 434' of 36" RCP at 0.17%
(Str. 409-408) - 154' of 42" RCP at 0.31%
(Str. 408-407) - 95.5' of 42" RCP at 0.01%
(Str. 407-406) - 274.5' of 42" RCP at 0.42%
(Str. 406-405) - 301' of 42" RCP at 0.34%
(Str. 405-404) - 299' of 42" RCP at 0.4%
(Str. 404-403) - 187' of 48" RCP at 0.01%
(Str. 403-402) - 84.5 feet of 48" RCP at 0.83%
(Str. 402-401) - 740' of open ditch through the Pond in Lindley Run Development
(Str. 401-400) - 212' 48" RCP at 1.07%
Laterals:
(409A - 409) - 27 of 30" RCP at 0.78
```

The drain was then reconstructed from original drain Station 25+05 to Station 48+76 and replaced with 48" RCP and open ditch. The 48" RCP was installed instead of the original

proposed open ditch due to conflicts with IDNR over wetland rules. The 48" RCP and open ditch design, plans and as-builts were completed by the Hamilton County Surveyor's Office. This section of drain can be found on sheets 3, 4, and 5 of the as-builts. It should be noted that Structure 604 is listed as Structure 400 on the Stoeppelwerth designed plans. Installed with this pipe were 5 manholes with solid lids and 1 concrete end section. This portion of reconstructed drain is as follows:

```
(Str. 604 - 603) - 298' of 48" RCP at 0.45%

(Str. 603 - 602) - 313' of 48" RCP at 0.23%

(Str. 602 - 601) - 303' of 48" RCP at 0.30%

(Str. 601 - 600) - 420.5' of 48" RCP at 0.19%

(Str. 600 - E. side of Scofield Farms Development) - 1059 feet of open ditch
```

Then continuing downstream of the original drain Sta. 48+76 to the east property line of the Scofield Farms Development, the existing open ditch had the north bank cleared and was dredged. A filter strip established on the north bank of the newly constructed and existing open ditch from the end section (Str. 600) located the west property line of Scofield Farms, Section 5 to the east property line of Scofield Farms, Section 6.

In summary, the project removed or abandoned 3,690 feet of 10" and 15" tile of the original main Ellis Barker Drain and the original Arm 2 (606 feet of 10" tile). The overall reconstruction of the drain installed 5,538.5 feet of new drain (3500.5 feet of new RCP and 1799 feet of new open ditch). Therefore, the project added 1,242.5 feet of drain to the overall length.

Ellis Barker Drain Easement Summary

The new relocated drain beginning at Structure 411 to Structure 402 and its laterals will have an easement of 25 feet from centerline of the pipe on both sides, located on Parcel # 08-06-29-00-00-001.301. In addition, there is a 30-foot R.D.E. platted for the pipe in Blk A of Lindley Run Sec. 1 (Recorded under #2020059302; P.C.5, Slide 1183). The open ditch (740 feet) running through the pond (Lake # 3) in Lindley Run Sec. 1 will have a variable R.D.E. as outlined on the secondary plat. The pipe from Structure 401 to 400 across Lindley Run Section 1 will have a 30' R.D.E. across C.A. #19.

The new relocated drain just northeast of Structure 400 (a.k.a. str. 600) crosses onto parcel # 08-06-29-00-00-002.001. The new drain runs southeasterly to end section 600, the outlet of the pipe. The drain across the property utilizes the existing statutory regulated drain easement which is 75' from the centerline of the pipe on both sides. Additional easement was purchased on this property. That document was approved by the Board and recorded in the Hamilton County Recorder's Office under Instrument # 2019020223.

At Structure 600 the pipe outlets into open ditch. This new open ditch runs through the subdivisions of Scofield Farms Section 5 and Scofield Farms Section 6. The easement for this open drain is reflected on the secondary plats for these two sections. They are recorded under Instrument #2021011571 (P.C. 6, Slide 56) and Instrument #2021050493 (P.C. 6, Slide 126). The existing open drain downstream of the Scofield development had drain improvements made within existing regulated drain easement. This easement was unchanged with this project.

The Northpoint Arm will have an easement of 25 feet each side of the centerline of the pipe located on Parcel # 08-06-29-00-00-001.301 and within the road right of way of 196th Street and Grassy Branch Road.

Form E-1 stating that all expenses for labor & materials has been paid as required by IC 36-9-27-82(b) has been received and the retainage withheld was released January 14, 2022.

As of the date of this report, I hereby attest to and agree that the reconstruction was completed according to the specified plans. All inspections have been completed. Construction staking was performed by and asbuilts were prepared by the Hamilton County Surveyor's Office.

I recommend the Board approve the drain's reconstruction as complete and acceptable.

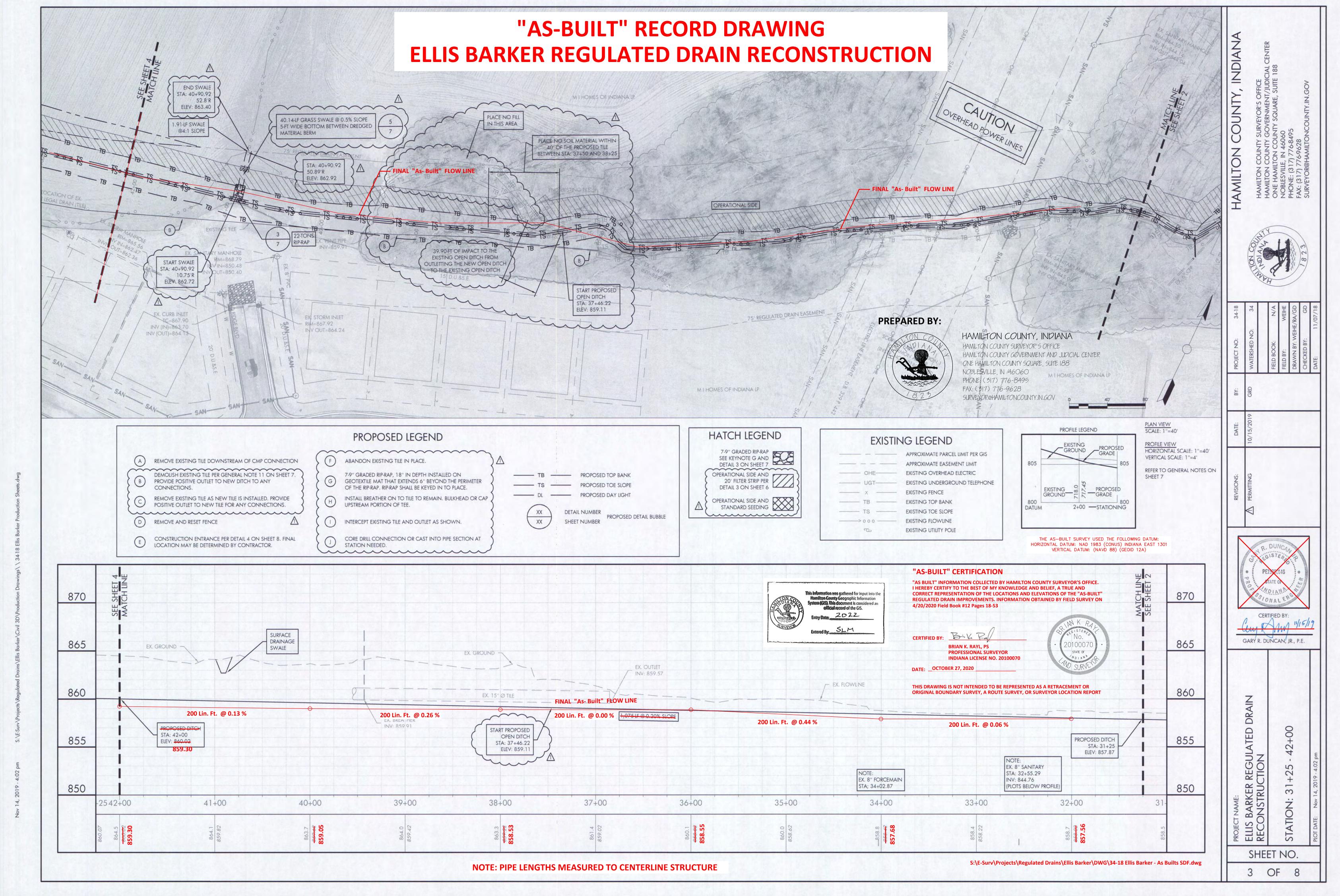
Respectfully

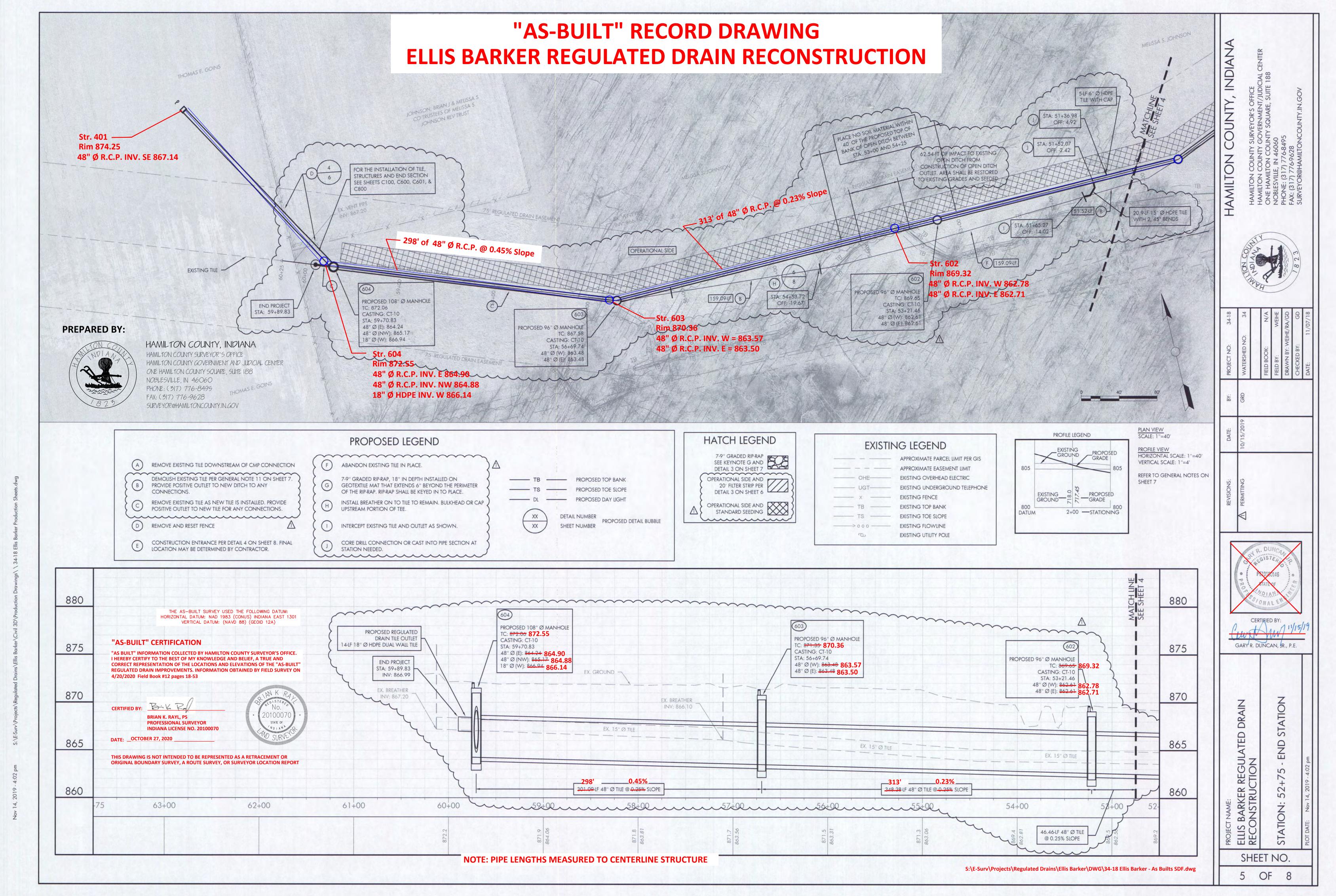
Luther M. Cline

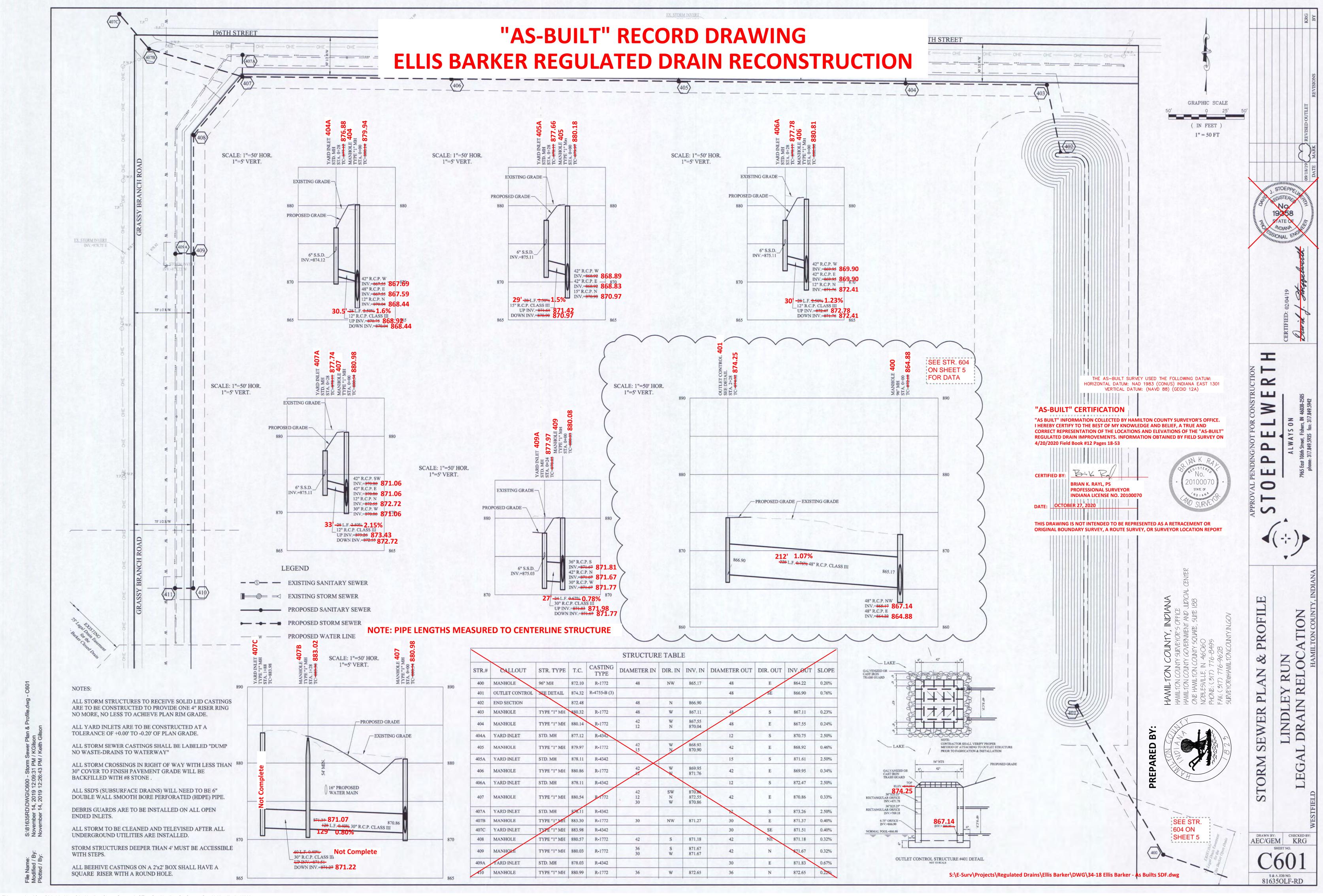
Inspector

Hamilton County Surveyor's Office

esther M. Cline







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