

# **Public Works Commission**

Application for Financial Assistance

IMPC	RTANT: Please consult "Instructions for I	Financial Assistance for Capital Infr	astructure Pro	jects" for guidance in c	completion of this form.	
	Applicant: Subdivision Code:					
Applicant	District Number: County:			Date: _		
App	Contact:(The individual who will be available during	business hours and who can best answer or coo	rdinate the respons	e to questions) Phone:		
	Email:			FAX: _		
	Project Name:			Zip Code	:	
	Subdivision Type	Project Type		Funding Request S	Summary	
Ļ		(Select single largest component by \$)	(Automatica	ally populates from page 2)		
Project		1. Road	Total Proje	ect Cost:	.00	
Pro	SFN	2. Bridge/Culvert		Grant:	.00	
		3. Water Supply	2. 1	_oan:	.00	
		4. Wastewater		Loan Assistance/ Credit Enhancement:	.00	
		5. Solid Waste				
		6. Stormwater	Funding R	lequested:	.00	
Di	strict Recommendation	(To be completed by the District C	committee)			
(Se	Funding Type Requested	SCIP Loan - Rate:9	% Term:	Yrs Amount:	.00	
	State Capital Improvement Program	RLP Loan - Rate:	% Term:	Yrs Amount:	.00	
	Local Transportation Improvement Program	Grant:		Amount:	.00	
	Revolving Loan Program	LTIP:		Amount:	.00	
	Small Government Program			Amount.	.00	
	District SG Priority:	Loan Assistance / Credit I	Enhancemen	t: Amount:	.00	
Fo	r OPWC Use Only					
	STATUS	Grant Amount:	.00	Loan Type:	SCIP 🗌 RLP	
Project Number:		Loan Amount:	.00	Date Construction	End:	
		Total Funding:	.00	Date Maturity:		
Relea	ase Date:	Local Participation:	%	Rate:	%	
OPW	C Approval:	OPWC Participation:	%	Term:	_ Yrs	

# 1.0 Project Financial Information (All Costs Rounded to Nearest Dollar)

# 1.1 Project Estimated Costs

Engineering Services			
Preliminary / Final Design:	.00		
Construction Administration:			
Total Engineering Services:	a.)	.00	%
Right of Way:	b.)	.00	
Construction:	c.)	.00	
Permits, Advertising, Legal:	e.)	.00	
Construction Contingencies:	f.)	.00	
Total Estimated Costs:	g.)	.00	
1.2 Project Financial Resources			
Local Resources			
Local In-Kind or Force Account:	a.)	.00	
Local Revenues:	b.)	.00	
Other Public Revenues:			
Local / ODOT - Let:	d.)	.00	
ODOT PID:			
OEPA / OWDA:	e.)	.00	
CDBG:	f.)	.00	
Other:	g.)	.00	
Subtotal Local Resources:	i.)	.00	%
OPWC Funds (Check all requested and enter Amoun	t)		
Grant: % of OPWC Funds	j.)	.00	
Loan: % of OPWC Funds	k.)	.00	yrs
Loan Assistance / Credit Enhancement:	l.)	.00	
Subtotal OPWC Funds:	m.)	.00	%
Total Financial Resources:	n.)	.00	%

#### 1.3 Availability of Local Funds

Attach a statement signed by the <u>Chief Financial Officer</u> listed in section 5.2 certifying <u>all local</u> <u>resources</u> required for the project will be available on or before the earliest date listed in the Project Schedule section. The OPWC Agreement will not be released until the local resources are certified. Failure to meet local share may result in termination of the project. Applicant needs to provide written confirmation for funds coming from other funding sources.

### 2.0 Repair / Replacement or New / Expansion

2.1 Total Portion of Project New / Expansion: \_\_\_\_\_\_.00

#### 3.0 Project Schedule

3.1 Engineering / Design / Right of Way	Begin Date:	End Date:
	-	
3.2 Bid Advertisement and Award	Begin Date:	End Date:
3.3 Construction	Begin Date:	End Date:

Construction cannot begin prior to release of executed Project Agreement and issuance of Notice to Proceed.

Failure to meet project schedule may result in termination of agreement for approved projects. Modification of dates must be requested in writing by project official of record and approved by the Commission once the Project Agreement has been executed.

#### 4.0 Project Information

If the project is multi-jurisdictional, information must be consolidated in this section.

## 4.1 Useful Life / Cost Estimate / Age of Infrastructure

Project Useful Life: \_\_\_\_\_ Years Age: \_\_\_\_\_ (Year built or year of last major improvement) Attach Registered Professional Engineer's statement, with seal or stamp and signature confirming the project's useful life indicated above and detailed cost estimate.

#### 4.2 User Information

Road or Bridge: Current ADT \_\_\_\_\_ Year \_\_\_\_\_

Water / Wastewater: Based on monthly usage of 4,500 gallons per household; attach current ordinances.

 Residential Water Rate
 Current \$ \_\_\_\_\_
 Number of households served: \_\_\_\_\_\_

Number of households served:

Residential Wastewater Rate Current \$ \_\_\_\_\_ Number of households served: \_\_\_\_\_

Stormwater:

# 4.3 Project Description

A: SPECIFIC LOCATION (Supply a written location description that includes the project termini; a map does not replace this requirement.) 2000 character limit.

B: IDENTIFY THE PROBLEM (Describe the issue to be addressed) 2000 character limit.

C: PROJECT SCOPE (Describe the work to be completed) 2000 character limit.

D. How do you intend to promote this project? 1000 character limit.

E: Additional Notes From Applicant - 1000 character limit.

## 5.0 Project Officials

Changes in Project Officials must be submitted in writing from an officer of record.

5.1 Chief Executive Officer (Person authorized in legislation to sign project agreements)

	Name:			
	Title:			
	Address:			
	City:		State:	Zip:
	Phone:			
	FAX:			
	E-Mail:			
5.2 Chief Financial Officer	(Can not also s	erve as CEO)		
	Name:			
	Title:			
	Address:			
	City:		State:	Zip:
	Phone:			
	FAX:			
	E-Mail:			
5.3 Project Manager				
	Name:			
	Title:			
	Address:			
	City:		State:	Zip:
	Phone:			
	FAX:			
	E-Mail:			

### 6.0 Attachments / Completeness review

Confirm in the boxes below that each item listed is attached (Check each box)

A certified copy of the legislation by the governing body of the applicant authorizing a designated official to sign and submit this application and execute contracts. This individual should sign under 7.0, Applicant Certification, below.

A certification signed by the applicant's chief financial officer stating the amount of <u>all local share</u> funds required for the project will be available on or before the dates listed in the Project Schedule section. If the application involves a request for loan (RLP or SCIP), a certification signed by the CFO which identifies a specific revenue source for repaying the loan also must be attached. Both certifications can be accomplished in the same letter.

A registered professional engineer's detailed cost estimate and useful life statement, as required in 164-1-13, 164-1-14, and 164-1-16 of the Ohio Administrative Code. Estimates shall contain an engineer's <u>seal or stamp and signature.</u>

A cooperative agreement (if the project involves more than one subdivision or district) which identifies the fiscal and administrative responsibilities of each participant.

Farmland Preservation Review - The Governor's Executive Order 98-IIV, "Ohio Farmland Protection Policy" requires the Commission to establish guidelines on how it will take protection of productive agricultural and grazing land into account in its funding decision making process. Please include a Farm Land Preservation statement for projects that have an impact on farmland.

Capital Improvements Report. CIR Required by O.R.C. Chapter 164.06 on standard form.

Supporting Documentation: Materials such as additional project description, photographs, economic impact (temporary and/or full time jobs likely to be created as a result of the project), accident reports, impact on school zones, and other information to assist your district committee in ranking your project. Be sure to include supplements which may be required by your local District Public Works Integrating Committee.

### 7.0 Applicant Certification

The undersigned certifies: (1) he/she is legally authorized to request and accept financial assistance from the Ohio Public Works Commission as identified in the attached legislation; (2) to the best of his/her knowledge and belief, all representations that are part of this application are true and correct; (3) all official documents and commitments of the applicant that are part of this application have been duly authorized by the governing body of the applicant; and, (4) should the requested financial assistance be provided, that in the execution of this project, the applicant will comply with all assurances required by Ohio Law, including those involving Buy Ohio and prevailing wages.

Applicant certifies that physical construction on the project as defined in the application has NOT begun, and will not begin until a Project Agreement for this project has been executed with the Ohio Public Works Commission. Action to the contrary will result in termination of the agreement and withdrawal of Ohio Public Works Commission funding from the project.

Certifying Representative (Printed form, Type or Print Name and Title)

Original Signature / Date Signed

	No.         RESOLUTION NO. 23-23         Passed         August 15         Yr.         2023				
- F	A RESOLUTION AUTHORIZING THE CITY OF BROOKVILLE TO PREPARE AND SUBMIT AN APPLICATION TO PARTICIPATE IN THE OHIO PUBLIC WORKS COMMISSION STATE CAPITAL IMPROVEMENT AND/OR LOCAL TRANSPORTATION IMPROVEMENT PROGRAM(S) AND TO EXECUTE CONTRACTS AS REQUIRED.				
	WHEREAS, the State Capital Improvement Program and the Local Transportation Improvement Program both provide financial assistance to political subdivisions for capital improvements to public infrastructure; and				
	WHEREAS, the City of Brookville is planning to make capital improvements to the Hay Avenue Roadway Improvements, Phase III Project; and				
	WHEREAS, the infrastructure improvement herein above described is considered to be a priority need for the community and is a qualified project under the Ohio Public Works Commission (OPWC) programs.				
	NOW, THEREFORE, BE IT ORDAINED BY THE COUNCIL OF THE CITY OF BROOKVILLE, OHIO, THAT:				
3	<b><u>SECTION</u></b> I: The City Manager is hereby authorized to apply to the OPWC for funds as described above.				
<i>\</i>	<b>SECTION II:</b> The City Manager is further authorized to enter into any agreements as may be necessary and appropriate for obtaining this financial assistance.				
	<b>SECTION III:</b> This Resolution shall take effect and be in force thirty (30) days after passage as provided by the Charter of the City of Brookville.				
	PASSED this <u>15th</u> day of <u>August</u> 2023.				
	ATTEST: Kimberly Duncan, Clerk Charles Letner, Mayor				

1

#### CERTIFICATE

The undersigned, Clerk of the City of Brookville, Ohio does hereby certify that the foregoing is a true and correct copy of Resolution No. 23-23, passed by the Council of said City on the <u>15th</u> day of <u>August</u> 2023.

Kimberly Duncan, Clerk

#### CERTIFICATE OF POSTING

The undersigned, Clerk of the City of Brookville, Ohio hereby certifies that the foregoing Resolution No. 23-23 was posted at the City Building, U.S. Post Office, and the Brookville Branch of the Montgomery County Library, Brookville, Ohio on the <u>16th</u> day of <u>August</u> 2023 to the <u>14th</u> day of <u>September</u> 2023, both days inclusive.

Kimberly Duncan, Clerk



Director of Finance

#### CHIEF FINANCIAL OFFICER'S CERTIFICATION OF LOCAL FUNDS / LOAN REPAYMENT LETTER

August 14, 2023

I, Michelle Brandt, Director of Finance of the City of Brookville, hereby certifies that the City of Brookville will collect the amount of \$984,850 in the Street, Storm, Sewer and Water Funds and that this amount will be used to repay the Ohio Public Works Commission SCIP or RLP loan requested for the Hay Avenue Roadway Improvement, Phase III over a 30-year term.

Michelle Brandt

Michelle Brandt Director of Finance

#### **HAY AVENUE RECONSTRUCTION - PHASE 3 CITY OF BROOKVILLE**

#### PRELIMINARY CONSTRUCTION ESTIMATE

ITEM	struction oh Hay Avenue from Cusick to Joanna approx. 500 feet	UNIT OF	APPROX.	UNIT	July 13, 202
NO.	DESCRIPTION	MEASURE	QTY.	PRICE	TOTA
201	CLEARING AND GRUBBING	LUMP	1	\$5,000.00	\$5,000.00
202	REMOVED	LUMP	1	\$10,000.00	\$10,000.00
202	CURB AND GUTTER REMOVED	FT.	1010	\$10.00	\$10,100.00
202	CATCH BASIN REMOVED	EACH	6	\$500.00	\$3,000.0
202	PIPE REMOVED, 24" AND UNDER	FT.	1500	\$15.00	\$22,500.0
202	MANHOLE REMOVED	EACH	5	\$1,000.00	\$5,000.00
202	WALK REMOVED	S.F.	3950	\$4.00	\$15,800.0
203	EXCAVATION, INCLUDING EMBANKMENT CONSTRUCTION	C.Y.	950	\$35.00	\$33,250.0
204	GEOGRID FOR SUBGRADE STABILIZATION	S.Y.	980	\$6.00	\$5,880.0
204	SUBGRADE COMPACTION	5.Y.	2500	\$2.00	\$5,000.0
204	EXCAVATION OF SUBGRADE AND STRUCTURAL EMBANKMENT	C.Y.	390	\$55.00	\$21,450.0
254	PAVEMENT PLANING, ASPHALT CONCRETE, 1.25"	S.Y.	275	\$20.00	\$5,500.0
304	AGGREGATE BASE	C.Y.	635	\$80.00	\$50,800.00
407	NON-TRACKING TACK COAT	GAL.	150	\$8.00	\$1,200.0
411	STABILIZED CRUSHED AGGREGATE	C.Y.	60	\$140.00	\$8,400.0
441	2-3/4" - ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (449)	C.Y.	160	\$285.00	\$45,600.00
441	1-1/4" - ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), PG64-22	C.Y.	85	\$350.00	\$29,750.0
152	6" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC-1P	S.Y.	100	\$100.00	\$10,000.00
608	4" CONCRETE WALK	S.F.	3935	\$12.00	\$47,220.0
608	CURB RAMP	S.F.	240	\$26.00	\$6,240.0
508	CONCRETE STEPS	FT.	30	\$200.00	\$6,000.00
609	COMBINATION CURB AND GUTTER, TYPE 2	FT.	1010	\$32.00	\$32,320.00
511	4" CONDUIT, TYPE B, 707.45	FT.	100	\$30.00	\$3,000.00
511	6" CONDUIT, TYPE B, 707.45	FT.	100	\$35.00	\$3,500.0
511	8" CONDUIT, TYPE B, 707.45	FT.	100	\$40.00	\$4,000.00
	6" CONDUIT, TYPE B, 707.45, STORM LATERAL	FT.	175	\$60.00	\$10,500.0
	12" CONDUIT, TYPE B	FT.	120	\$95.00	\$11,400.00
	18" CONDUIT, TYPE B	FT.	75	\$120.00	\$9,000.00
	36" CONDUIT, TYPE B	FT.	640	\$230.00	\$147,200.00
	CATCH BASIN, TYPE 1	EACH	8	\$3,000.00	\$24,000.00
	STORM SEWER MANHOLE, NO. 3	EACH	6	\$5,000.00	\$30,000.00
	6" SANITARY SEWER LATERAL	FT.	175	\$80.00	\$14,000.0
	8" PVC SDR-26 SANITARY SEWER	FT.	570	\$125.00	\$71,250.00
	SANITARY SEWER MANHOLE, NO. 3	EACH	3	\$6,500.00	\$19,500.00
	WATER	MGAL	5	\$200.00	\$1,000.00
		LUMP	1	\$10,000.00	\$10,000.00
	CONSTRUCTION LAYOUT STAKES AND SURVEYING	LUMP	1	\$8,000.00	\$8,000.00
	SIGNAGE	LUMP	1	\$2,500.00	\$2,500.00
	1" WATER SERVICE BRANCH	FT.	175	\$100.00	\$17,500.00
	6" FIRE HYDRANT ASSEMBLY	EACH	1	\$9,500.00	\$9,500.00
	4" DIP CL-51 WATER MAIN	FT.	50	\$210.00	\$10,500.00
	6" DIP CL-51 WATER MAIN	FT.	50	\$180.00	\$9,000.00
	8" DIP CL-51 WATER MAIN	5 FT.	500	\$160.00	\$80,000.00
515 I	8" GATE VALVE		3	\$3,000.00	\$9,000.00
88 I)	FIRE HYDRANT REMOVED	EACH EACH	1	\$1,000.00	\$1,000.00
525	STOP LINE, TYPE 1	T.	13	\$30.00	\$390.00
	SEEDING AND MULCHING, CLASS 1 2 ALLAN J.	SY.	500	\$9.00	\$4,500.00
	EROSION CONTROL	EACH	5000	\$1.00	\$5,000.00
	TOTAL	a =	5000	J1.00	\$895,250.00
	CONTINGENCY (10%) E-82274	Ξ			\$89,600.00
	TOTAL CONSTRUCTION COST				\$984,850.00
		25			3304,030.00
	MAINTAINING I RAFIC CONSTRUCTION LAYOUT STAKES AND SURVEYING SIGNAGE 1" WATER SERVICE BRANCH 6" FIRE HYDRANT ASSEMBLY 4" DIP CL-51 WATER MAIN 8" DIP CL-51 WATER MAIN 8" GATE VALVE FIRE HYDRANT REMOVED STOP LINE, TYPE 1 SEEDING AND MULCHING, CLASS 1 EROSION CONTROL TOTAL CONTINGENCY (10%) TOTAL CONSTRUCTION COST				
1	SEPARATED WATER COST	1			\$136,500.0
-	SEPARATED STORM SEWER COST				\$242,600.00
	SEPARATED SANITARY SEWER COST				\$104,750.00
	SEPARATED ROADWAY COST				\$411,400.00
					y411,400.00



We make no warranty, express or implied, that the actual construction cost of the work associated with these estimated quantities and costs will not vary. The cost reflects our opinion of current probable construction cost.

Useful

Water

Life

25 years

15 years

40 years

40 years

CERTIFICATE OF ESTIMATE:

Component I HEREBY CERTIFY THAT THE PROJECT ESTIMATED COSTS LISTED ABOVE ARE REALISTIC BASED ON THE LEVEL OF DETAIL CURRENTLY AVAILABLE FOR THIS PROJECT AND ANTICIPATED FOR A 2024 CONSTRUCTION TIME FRAME. Reconstruction Resurfacing Sewer

I ALSO CERTIFY THAT THIS PROJECT HAS AN EXPECTED USEFUL LIFE OF 33 YEARS BASED UPON NORMAL USAGE AND REGULAR MAINTENANCE, AND CONSTRUCTED AS PER CURRENT STANDARDS

Allan J. Heitbrink

Average weighted useful life of total project =

33

Life

\$8,485,250

\$1,244,250

\$16,493,600

\$6,006,000

\$32,229,100

Estimated Weighted Useful

Cost

\$339,410.00

\$82,950.00

\$412,340.00

\$150,150.00

\$984,850.00

YEARS

A weighted useful life statement stamped/sealed and signed by a licensed professional engineer must be included with the project application.

This spreadsheet has formulas to make a weighted useful life calculation and is populated with an example for illustrative purposes. Items can be added to column a.

5					
Major Component	Cost (\$1,000)	Portion Repair / Replacement (%)	Repair / Replace Product	Useful Life (Years)	Useful Life Product
Full-depth road construction w/ drainage Full-depth road construction w/o drainage	339.41	100	33941	25 25	8485.25
Partial-depth road construction w/ drainage Partial-depth road construction w/o drainage	82.95	100	8295	15 15	1244.25
Storm Sewers	206.17	100	20617	40	8246.8
Sanitary Sewers	206.17	100	20617	40	8246.8
Water Lines Bridge Pumps, Lift Stations Sidewalks Bike Facility	150.15	100	15015	40 75 15 25 7	6006

Hay Avenue Reconstruction - Phase 3
Weighted Useful Life & Design Service Capacity Calculations

Totals	984.85	98485	32229.1
Weighted Useful Life:	33 Years		
Design Service Capacity (Proje	ct Application, Section 2.0	):	
Portion Repair / Replace	100 %		

%

Allan J. Heitbrink, PE

Portion New / Expansion

2023 Date



# OHIO PUBLIC WORKS COMMISSION DISTRICT 4 FY25 Supplemental Questionnaire

Applicant: City of Brookville

Project Title: Hay Avenue Roadway Improvements, Phase III

### **Application Summary:**

#### Briefly describe the project:

Hay Avenue dates back to the early 1900's. This project involves the full depth reconstruction of Hay Avenue from Cusick Avenue to JoAnna Street. This project is Phase III of a multi-phase project to improve Hay Avenue between Wolf Creek Street and Albert Road. Hay Avenue is a heavily traveled roadway through Brookville. It allows people to travel to our major industrial park, our Brookhaven Nursing Complex and to access Interstate 70, via Brookville-Salem Road.

This section of Hay Avenue was last resurfaced in 2002. It gets pot hole repairs as needed. Roadway improvements include the replacement of existing deteriorating roadway, curb and gutter, sidewalk and driveway approaches, sanitary sewer and inadequate storm sewer. Also, included in this project is the replacement of approximately 500 feet of aging and deteriorated 4" cast iron water main with an 8" ductile iron water main, which will include the replacement of water service laterals and a fire hydrant. The initial water main was installed in 1903 and was last replaced in 1956.

The existing storm lines are in poor condition, with cracked lines washing away aggregate and undermining the asphalt pavement. Improvement of the storm lines will provide access for homeowners as we continue to combat inflow and infiltration into the sanitary system.

This third phase of reconstruction consists of six residential homes and four commercial businesses. Future phases of Hay Avenue reconstruction has a mixture of residential homes and commercial businesses which have experienced water main breaks and low water pressure.

Attached is a map showing the project location.

## **Priority:**

Is this application your priority project? (Circle One)				
Yes 💽	No 🚫			

### Generation of Revenue:

Will new user fees or assessments be assessed as part of this project? (Circle One)				
Yes 💽	No 🔘			
What will the new user fees or assessments be used for?				
Our City Ordinance states replacement curb an	Id sidewalk are assessed to property owners.			

## Additional Funding:

Will OPWC match, in part, a committed grant or loan? (Circle One)				
Yes No 💽				
If no, was the project submitted to an appropriate agency for funding, but denied due to lack of funding? (Circle One)				
Yes – Appropriate Documentation Attached O No 💿				

## **Readiness of Project:**

Will this project be <u>substantially</u> underway on or before June 1, 2025?(Circle One)							
Yes 💽	No 🚫						

## Health & Safety:

Describe the specific health or safety issue being addressed by this project. What deficiency or condition is causing the health or safety issue?

The original existing road dates back to the early 1900's. The existing pavement width is approximately 31 feet. The road was last overlaid with 1-1/4" of asphalt in our 2002 Street Resurfacing Program. The pavement conditions on Hay Ave. have suffered extreme deterioration. Restoration patches exist in multiple locations and alligator cracking is throughout this section of roadway.

There is a significant problem with surface storm water running off the street into the existing storm drainage, which is inadequate and contributes toward pavement failure. The limited storm water drainage that currently exists lacks adequate capacity to handle storm water runoff from the road. Hay Avenue is experiencing surface and base failures and has exceeded its useful life.

There is existing curb and sidewalk on both sides of the street. The existing sidewalk and curb is in fair condition.

Also, included in this project is the replacement of approximately 500 feet of aging and deteriorated 4" cast iron water main with an 8" ductile iron water main, which includes the replacement of water service laterals and a fire hydrant. The initial water main was installed in 1903 and was last replaced in 1956. This section of Hay Avenue was once the "business center" and it still contains old, large buildings that require a great deal of water when on fire. In the area of Hay Avenue and Jefferson Street, the water available from the hydrant is inadequate. Unfortunately, this hydrant is the primary source for more than 31,500 square feet of commercial businesses and several residential structures. The fire hydrant here offers less than 300 gallons of water per minute.

# Addresses District Infrastructure Needs:

Is this project located in more than one community? (Circle One)								
Yes No 💽								
What percentage of the community will be served by this project? (Circle One)								
Less than 25%	25% to 40% 💽	More than 40% 🔘						

## **Economic Development**

How many jobs are being created as a result of this project?	0
How many jobs will be retained as a result of this project?	0
Why is it necessary to fund this improvement to secure this development?	
N/A	
What type of industry is proposed in this development?	

# Relieve Existing Traffic Congestion:

What is the level of service?	LOS B
-------------------------------	-------

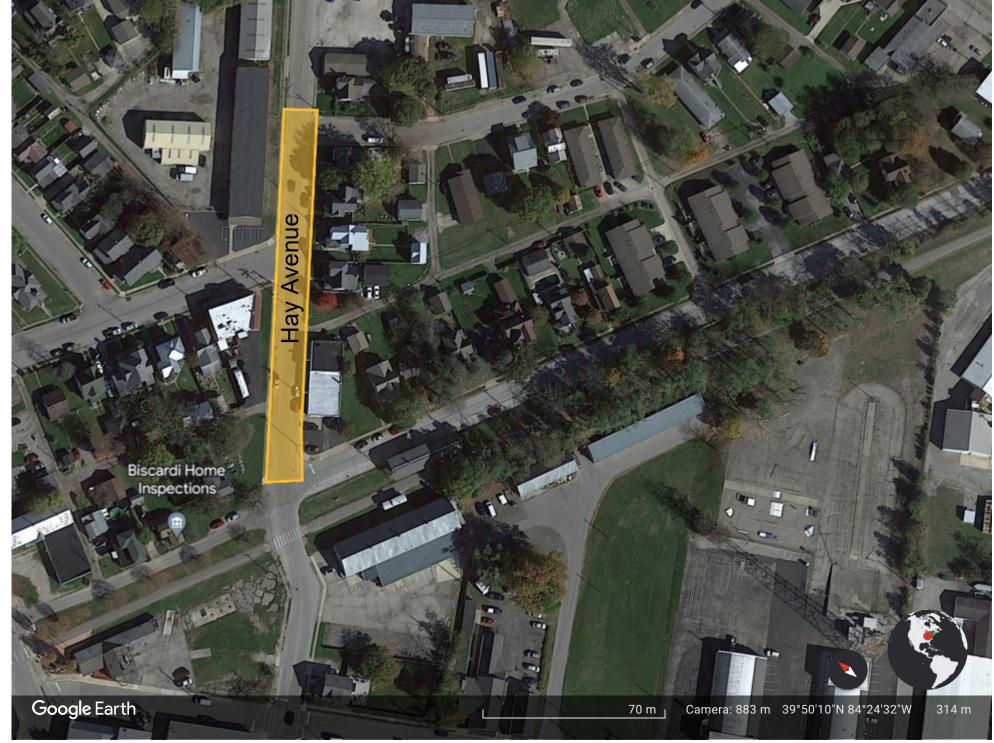
## **Other Factors**

What other factors exist that make this project more important than other like projects?

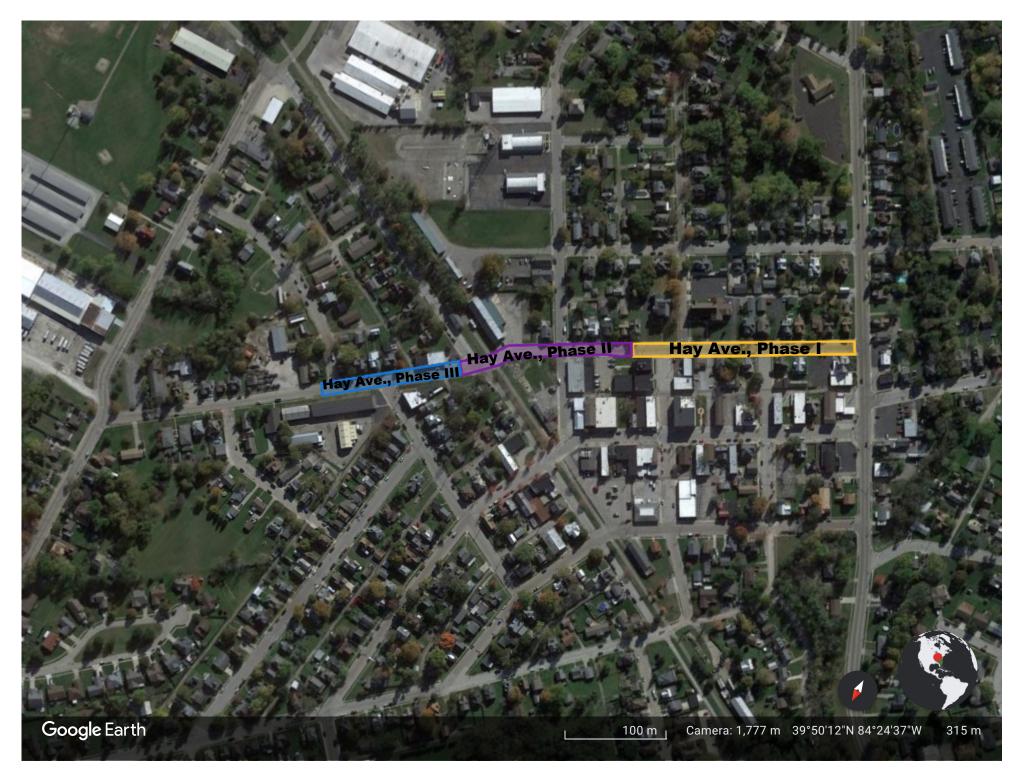
The original road dates back to the early 1900's and the pavement was last resurfaced in 2002. The pavement conditions on Hay Avenue have suffered extreme deterioration. The existing storm lines are in poor condition, with cracked lines washing away aggregate and undermining the asphalt pavement.

A traffic count and pavement condition rating was done by Choice One Engineering on August 9, 2019. The ADT was 1,298 and the Hay Avenue PCR was 71. The current population of Brookville according to the 2020 U.S. Census is 5,999. The traffic count represents 22% of the population of Brookville. Many residents and people from the surrounding township use this roadway to access our Industrial Park, Brookhaven Nursing Home, and Interstate 70.

Hay Avenue needs to be reconstructed including pavement, curb and sidewalk, installation of adequate storm sewer, sanitary sewer, and replacement of the existing 4" cast iron water main, that was installed in 1956, with an 8" ductile iron water main. In 2015, our Fire Chief and Service Department Superintendent identified water line priorities. Hay Avenue is a very high priority as it pertains to fire protection and water line quality. Please see attached spreadsheet. In 2016, the City of Brookville contracted with Poggemeyer Design Group to conduct a Water Study. Included is a copy of Table 9 from that Study that shows Hay Avenue has a Priority Ranking of 2 out of 5 for water line replacement.

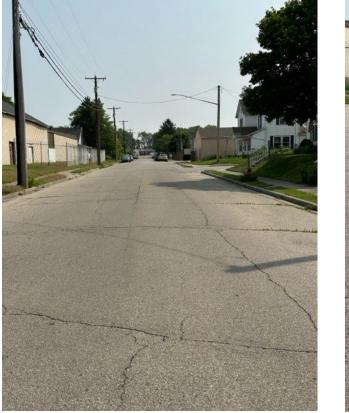


Vicinity Map



**Hay Avenue Phased Improvements** 















Date August 8, 2019

Subject Hay Avenue AD1 Certification City of Brookville, Montgomery County, Ohio

Based on traffic counts completed by Choice One Engineering on Thursday August 1, 2019 (attached), I certify the following ADT is accurate:

• Hay Avenue ADT - 1,298

Milk Ithm 8/8/19

SEAL:

Michael K. Goettemoeller, P.E., PTOE Project Manager







S Ohio/N. Kentucky 203 W. Loveland Ave. Loveland, OH 45140 513.239.8554 Phone Eastern Indiana 607 N. Meridian St. Portland, IN 47371 260.766.2500 Phone



#### www.CHOICEONEENGINEERING.com

# Study Name Hay Avenue ADT Start Date 08/01/2019 Start Time 12:00 AM Site Code

Number of the second	Channel Direction	Direction Westbound	Direction Eastbound
12:15 AM         0         0           12:30 AM         2         0           12:30 AM         0         0           1:00 AM         0         0           1:15 AM         0         0           1:30 AM         0         0           2:15 AM         0         0           2:15 AM         0         0           2:30 AM         0         1           3:00 AM         0         0           3:15 AM         1         1           4:15 AM         1         1           4:24 SAM         0         0           3:30 AM         0         0           4:40 AM         0         0           4:45 AM         1         1           4:45 AM         1         1           4:45 AM         1         1           5:00 AM         0         0           5:15 AM         6         8           5:30 AM         1         1           7:0 AM         4         10           7:15 AM         10         4           7:15 AM         10         4           7:15 AM         10         1 <th></th> <th></th> <th>Lastoodilu</th>			Lastoodilu
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Date August 9, 2019

#### Subject

Hay Avenue Pavement Ratings City of Brookville, Montgomery County, Ohio

Based on the pavement rating completed by Choice One Engineering on Thursday August 9, 2019 (attached), I certify the following pavement rating is accurate:

• Hay Avenue PCR - 71

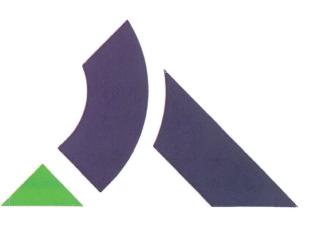
1K g. th £19/19

Michael K. Goettemoeller, P.E. Project Manager

Date



W Central Ohio/E Indiana 440 E. Hoewisher Rd. Sidney, OH 45365 937.497.0200 Phone S. Ohio/N. Kentucky 8956 Glendale Milford Rd., Suite 1 Loveland, OH 45140 513.239.8554 Phone



www.CHOICEONEENGINEERING.com

Section: Hay Avenu	e							Date:		August 9, 2019
Log Mile:	to to							Rated by:		MKG
Sta:	to	PAV	EMEN	MENT CONDITION RATING			ING	# of Utility Cuts		
						1				1
DIST	TRESS	Distress Weight	SE	VERITY V	VT.*	EX	KTENT W	T.**	STR	DEDUCT POINTS***
		weight	L	М	Н	0	F	E	-	
RAVELING		10	0.3	0.6	1	0.5	0.8	1		3
BLEEDING		5	0.8	0.8	1	0.6	0.9	1		0
PATCHING		5	0.3	0.6	1	0.6	0.8	1		1.8
DEBONDING/POTHOLE	S	5	0.3	0.6	1	0.6	0.8	1		0.9
RUTTING		10	0.3	0.7	1	0.6	0.8	1	$\checkmark$	2.4
MAP CRACKING		5	0.2	0.6	1	0.4	0.8	1		4
BASE FAILURE		10	0.6	0.8	1	0.7	0.9	1	$\checkmark$	4.2
SETTLEMENTS		5	0.4	0.7	1	0.6	0.8	1		1.2
TRANSVERSE CRACKI	NG	10	0.4	0.7	1	0.5	0.7	1	$\checkmark$	2.8
WHEEL TRACK CRACK	ING	15	0.4	0.7	1	0.5	0.7	1	$\checkmark$	3
LONGITUDINAL CRACK	KING	5	0.2	0.6	1	0.4	0.8	1	$\checkmark$	0.8
EDGE CRACKING		5	0.4	0.7	1	0.5	0.7	1	$\checkmark$	0
PRESSURE DAMAGE/U	IPHEAVAL	5	0.4	0.6	1	0.5	0.8	1		1
CRACK SEALING DEFIC	CIENCY	5	NOT	CONSID	ERED	0.5	0.8	1		4
-							-	TOTAL	DEDUCT =	29.1
						SUM OF	STRUCT	URAL DED	OUCT (√) =	13.2

SUM OF STRUCTURAL DEDUCT ( $\sqrt{}$ ) =

100 – TOTAL DEDUCT = PCR =

70.9

Notes:

#### WATER LINE REPLACEMENT PRIORITIES JULY 2015

WATER LINE REPLACEMENT PRIORITIES JULY 2015								
	JEFT	1.	1 8	. / /		/ /		
/	UNECTION BENEFIT	JHE OUALTH TREET	EVER OURUN	1.		/ /		
/	ectio.	JE QUI	WER	AL SCORE STREET MANE	/			
	OT AR	IT AI	a / 1	the state	/	1	A2	
FIRE	WAT	STREE	10	TRE	/	STREET	STREET 2	
1	1	1	1	200 block of Maple Street	Between	E. McKinley	Oak	
1	1	1	1	300 block of Maple Street	Between	Oak	Gaines	
1	1	1	1	400 block of Maple Street	Between	Gaines	Westbrook	
1	1	1	1	10 & 100 block of Hay Avenue	Between	Wolf Creek	Maple	
1	1	1	1	200 block of Hay Avenue	Between	Maple	Sycamore	
1	1	1	1	500 block of Hay Avenue	Between	Joanna	Wall	
1	1	1	1	600 block of Hay Avenue	Between	Wall	Albert	
2	1	1	1.3333	300 block of N. Wolf Creek Street	Between	Brookside	Durwell	
2	1	1	1.3333	200 block of N. Wolf Creek Street	Between	Brookside	Durwell	
2	1	1	1.3333	100 block of S. Orchard Street	Between	Westbrook	Simmons	
2	1	1		110 block of N. Orchard Street	Between	Western	Mound	
1	1	2	1.3333	300 block of Hay Avenue	Between	Sycamore	Cusick	
1	1	2	<b>1.3333</b>	400 block of Hay Avenue	Between	Cusick	<mark>Joanna</mark>	
2	1	1	1.3333	500 block of Main Street	Between	Jefferson	Salem	
2	1	1	1.3333	500 block of Vine Street	Between	Jefferson	Wall	
2	1	1	1.3333	600 block of Vine Street	Between	Wall	Salem	
2	1	2	1.6667	400 block of N. Wolf Creek Street	Between	Karrland	Brookside	
2	1	2	1.6667	100 block of N. Wolf Creek Street	Between	Durwell	Main	
2	1	2	1.6667	10 block of N. Wolf Creek Street	Between	Main	Market	
2	1	2	1.6667	10 block of S. Wolf Creek Street	Between	Market	Нау	
3	1	1	1.6667	100 block of S. Clay Street	Between	Westbrook	Simmons	
3	1	1	1.6667	10 block of N. Clay Street	Between	Western	Church	
2	1	2	1.6667	10 block of W. McKinley Street	Between	Hill	Wolf Creek	
1	1	3	1.6667	10 block of E. McKinley Street	Between	Wolf Creek	Maple	
2	1	2	1.6667	10 block of Main Street	Between	Wolf Creek	Walnut	

The following table shows a detail of the pipe greater than 50-years old along with a replacement ranking and probable construction cost for primarily the 4-inch waterlines. These are shown on Exhibit 8 along with high maintenance areas that have a significant number of repairs. Some 6-inch waterlines are included that would have impact to the 4-inch waterline replacement and/or the available flows for the areas that could not meet the modeled fire flow constraints. Some of the pipes overlap with the pipes included for meeting fire flows in the previous section and are included in the list below and ranked for replacement based on need to meet fire flows and age.

	39		, ils	Table 9 Replacement Priority Ranking	and		
		Probab	le Const	ruction Cost based on 8-inch W		ement	
Labei	Dia. (in)	Approx. Installation Year	Length (ft)	Location	Included in Fire Flow Improvements	Priority Ranking	Probable Construction Cost*
P-276	4	1951	551	Church St	Yes	1	\$99,180
P-277	6	1963	180	Church St	Yes	1	\$32,400
P-274	4	1951	420	Church St		1	\$138,420
P-271	4	1951	349	Church St		1	\$136,420
P-453	6	1960	273	Lisa Court Poplar St		-	
P-248	6	1960	103	Poplar St	Yes	1	
P-249	6	1960	565	Verify connection if this is connected to the 12", these 6" lines are adequate			
P-225	4	1956	561	Main St			
P-226	4	1956	325	(north of Columbia) verify connection to	Yes	1	
P-553	4	1956	682	the 10" on Salem Street			
P-430	4	1982	749	Market St to H-233	Yes	1	\$134,820
P-260	4	1959	28	E Clau St	Vas	1	¢11E 290
P-265	4	1959	613	S Clay St	Yes	1	\$115,380
P-263	4	1953	605	S Orchard St	Yes	1	\$108,900
P-264	4	1959	278	Simmons between Orchard/Clay	Yes	1	\$50,040
P-285	4	1964	311	Osage Alley - s from Harshman St	Yes	1	\$55,980
P-619	4	1984	222	Walnut St to H-399	Yes	1	\$39,960
P-618	4	1963	722	Walnut St		2	\$129,960
P-262	4	1959	320	Westbrook between Clay/Simmons	Yes	1	\$57,600
P-345	4	1960	1,167			2	6224 F40
P-346	4	1956	636	Vine St - High Maintenance Årea		2	\$324,540
P-347	4	1956	620	Wall St - High Maintenance Area		2	\$111,600
P-231	4	1965	979	Hay Ave (sw of Wolf Creek Trail)		2	¢220 500
P-334	4	1956	302			2	\$230,580
P-337	4	1956	297				
P-338	4	1956	138			2	\$211 060
P-339	4	1960	358	Hay Ave (ne of Wolf Creek Trail)		2	\$211,860
P-340	4	1960	384				
P-378	4	1956	94	March Ave (approx 100' connecting the 6" to the Western Ave 12")		3	\$16,920
P-377	6	1956	1003	March Ave - 1000' of 6"		5	\$180,540
P-292	4	1951	458	N Hill St - From Western to Mound		3	\$82,440



From the desk of... Ronald E. Fletcher, OFE Director of Fire / Fire Chief

# MEMORANDUM

July 12, 2023

TO: Sonja Keaton, City Manager

FROM: Ronald Fletcher, Fire Chief 🥨

**REF:** Hay Avenue Water System Improvements

The water main that runs the entire length of Hay Avenue, and continuing efforts to improve it, is important to the Brookville Fire Department as it relates to water available for firefighting. Originally constructed in the mid 1950's, this main has historically offered extremely poor volume. Recent improvements along other sections of Hay Avenue have delivered the desired increase in available water volume, and I respectfully request that we continue to prioritize this project.

This section of Brookville was once the "business center" and it still contains old, large buildings that require a great deal of water when on fire. In the area of Hay Avenue and Jefferson Street the water available from the hydrant here is woefully poor. Unfortunately, this hydrant is the primary water source for more than 31,500 square feet of commercial space and several residential structures. Residential structure fires can require a needed water flow of 1000 gallons per minute or more. The fire hydrant here offers less than **300 gallons per minute**. The lack of water offered by the current water main makes it challenging to suppress a building fire in this area, and even more challenging to protect neighboring buildings exposed to the original fire building.

Fire departments today face numerous challenges – adequate staffing, homes full of combustibles that burn extremely fast, and building contents that require a greater fire flow than fifty years ago. We can often overcome these challenges with a good water supply. The difficult nature of our job, combined with a poor water supply, place our residents and our firefighters in a dangerous position.

I support and encourage efforts to improve the water line along Hay Avenue. Please feel free to contact me with questions / concerns.



August 4, 2023

**Ohio Public Works Commission** 

This letter is about the proposed upgrades to the Hay Ave. Roadway Improvements, Phase III project. The age of the existing 4" water main is approximately 70 years old. This water main is unlined cast iron producing rusty drinking water for residents in the area. The improvement to 8" ductile iron would improve quality and fire flow for the area. Hay Ave has connectivity to several other areas that have existing 4" water main. Upgrade of the Hay Ave. water main provides connectivity, allowing other areas to be upgraded to 8" water main in the future.

The existing storm lines are in poor condition, with cracked lines washing away aggregate and undermining the asphalt pavement. Improvement of the storm lines will provide access for homeowners as we continue to combat inflow and infiltration into the sanitary system.

The pavement conditions on Hay Ave. have suffered extreme deterioration. The pavement was last resurfaced in 2002 and requires base repair in several areas. Restoration patches exist in multiple locations from previous water main break repairs.

If you have any questions or need additional information upon reviewing this application, please feel free to contact me at (937) 833-2135 x401.

The City of Brookville appreciates your attention to this project and would appreciate any financial assistance extended.

Respectfully submitted,

Joseph Hamiel Service Superintendent