OHIO PUBLIC WORKS COMMISSION

65 East State Street, Suite 312
Columbus, Ohio 43215
(614) 466-0880

APPLICATION FOR FINANCIAL ASSISTANCE

Revised 6/90 CBE07

IMPORTANT: Applicant should consult the "Instructions for Completion of Project Application" for assistance in the proper completion of this form.

APPLICANT NAME City of Harrison
STREET 300 George Street

CITY/ZIP Harrison 45030

PROJECT NAME Harrison Avenue Phase III
PROJECT TYPE Rehab and Widening
TOTAL COST $ 330,000

DISTRICT NUMBER 2
COUNTY Hamilton

PROJECT LOCATION ZIP CODE 45030

02 DEC 18 AM 11:25

DISTRICT FUNDING RECOMMENDATION
To be completed by the District Committee ONLY

RECOMMENDED AMOUNT OF FUNDING: $ 283,500

FUNDING SOURCE (Check Only One):

State Issue 2 District Allocation
____ Grant
____ Loan
____ Loan Assistance

____ State Issue 2 Small Government Fund
____ State Issue 2 Emergency Funds
X Local Transportation Improvement Fund

FOR OPWC USE ONLY

OPWC PROJECT NUMBER: _____ OPWC FUNDING AMOUNT: $_____

1.0 APPLICANT INFORMATION

1.1	CHIEF EXECUTIVE OFFICER	Harry A. Rolfes
	TITLE	Mayor
	STREET	300 George Street
	CITY/ZIP	Harrison 45030
	PHONE	(513) 367 - 2111
	FAX	( ) -
1.2	CHIEF FINANCIAL OFFICER	Cathy Benson
	TITLE	Clerk/Treasurer
	STREET	112 N. Walnut Street
	CITY/ZIP	Harrison 45030
	PHONE	(513) 367 - 4313
	FAX	( ) -
1.3	PROJECT MGR	Joseph M. Allen Co. /William R. McCormick
	TITLE	City Engineer
	STREET	1947 Auburn Avenue
	CITY/ZIP	Cincinnati 45219
	PHONE	(513) 721 - 5500
	FAX	(513) 721 - 0607
1.4	PROJECT CONTACT	Joseph M. Allen Co. /William R. McCormick
	TITLE	City Engineer
	STREET	1947 Auburn Avenue
	CITY/ZIP	Cincinnati 45219
	PHONE	(513) 721 - 5500
	FAX	(513) 721 - 0607
1.5	DISTRICT LIAISON	Joseph Cottrill
	TITLE	District 2 Liason
	STREET	138 East Court Street
	CITY/ZIP	Cincinnati 45202
	PHONE	(513) 632 - 8523
	FAX	(513) 723 - 9748

2.0 PROJECT INFORMATION

IMPORTANT: If project is multi-jurisdictional in nature, information must be consolidated for completion of this section.

2.1 **PROJECT NAME:**

2.2 **BRIEF PROJECT DESCRIPTION - (Sections A through D):**

A. **SPECIFIC LOCATION:**

see attached map

B. **PROJECT COMPONENTS:**

Widen existing two lane 21' road to 42' from West Road to Gainsveiw Road and widen existing two lane 21' road to 34' road from Gainsview Road to West Road, install storm drainage system.

C. **PHYSICAL DIMENSIONS/CHARACTERISTICS:**

Existing 2355'L x 21'W
Proposed 42' wide to 34' wide
It carries traffic from I-74 at Dry Fork and New Haven. Currently the pavement is not wide enough to sufficiently convey increasing traffic.

D. **DESIGN SERVICE CAPACITY:**

IMPORTANT: Detail shall be included regarding current service capacity vs proposed service level. If road or bridge project, include ADT. If water or wastewater project, include current residential rates based on monthly usage of 7,756 gallons per household.

Capacity of this facility is inadequate due to growth of population and business in Harrison.

12,800 VPD x 1.2 = 15,360 BPD

2.3 **REQUIRED SUPPORTING DOCUMENTATION**

(Photographs/Additional Description; Capital Improvements Report; Priority List; 5-year Plan; 2-year Maintenance of Effort report, etc.) Also discuss the number of temporary and/or fulltime jobs which are likely to be created as a result of this project. Attach Pages. Refer to accompanying Instructions for further detail.

3.0 PROJECT FINANCIAL INFORMATION

3.1 PROJECT ESTIMATED COSTS (Round to Nearest Dollar):

a)	Project Engineering Costs:	
	1. Preliminary Engineering	$ N/A
	2. Final Design	$ N/A
	3. Construction Supervision	$ N/A
b)	Acquisition Expenses	
	1. Land	$ N/A
	2. Right-of-Way	$ N/A
c)	Construction Costs	$300,000.00
d)	Equipment Costs	$ N/A
e)	Other Direct Expenses	$ N/A
f)	Contingencies	$30,000.00
g)	TOTAL ESTIMATED COSTS	$330,000.00

3.2 PROJECT FINANCIAL RESOURCES (Round to nearest Dollar & %)

		Dollars	%
a)	Local In-Kind Contributions*	$ N/A	
b)	Local Public Revenues	$46,500.00	14
c)	Local Private Revenues	$ N/A	
d)	Other Public Revenues		
	1. ODOT	$ N/A	
	2. FMHA	$ N/A	
	3. OEPA	$ N/A	
	4. OWDA	$ N/A	
	5. CDBG	$ N/A	
	6. Other _____	$ N/A	
e)	OPWC Funds		
	1. Grant	$283,500.00	86
	2. Loan	$ 0.00	
	3. Loan Assistance	$ 0.00	
f)	TOTAL FINANCIAL RESOURCES	$330,000.00	100

*If the required local match is to be 100% In-Kind Contributions, list source of funds to be used for retainage purposes.

3.3 AVAILABILITY OF LOCAL FUNDS

Indicate the status of <u>all</u> local share funding sources listed in section 3.2(a) through 3.4(c). In addition, if funds are coming from sources listed in section <u>3.2(d)</u>, the following information <u>must be attached to this application:</u>

1) The date the funds are available;
2) Verification of funds in the form of an agency approval letter or agency project number. Please include the name and number of the agency contact person.

3.4 PREPAID ITEMS

Definitions:

Cost -	Total Cost of the Prepaid Item.
Cost Item -	Non-construction costs, including preliminary engineering, final design, acquisition expenses (land or right-of-way).
Prepaid -	Cost items (non-construction costs directly related to the project), paid prior to receipt of fully executed Project Agreement from OPWC.
Resource Category -	Source of funds (see section 3.2).
Verification -	Invoice(s) and copies of warrant(s) used to for prepaid costs, accompanied by Project Manager's Certification (see section 1.4).

IMPORTANT: Verification of all prepaid items shall be attached to this project application.

	COST ITEM	RESOURCE CATEGORY	COST
1)	_____	_____	$_____
2)	_____	_____	$_____
3)	_____	_____	$_____

TOTAL OF PREPAID ITEMS $_____

3.5 REPAIR/REPLACEMENT or NEW/EXPANSION

This section need only be completed if the Project is to be funded by SI2 funds:

TOTAL PORTION OF PROJECT REPAIR/REPLACEMENT $_____ _____%
State Issue 2 Funds for Repair/Replacement $_____ _____
(Not to Exceed 90%)

TOTAL PORTION OF PROJECT NEW/EXPANSION $_____ _____%
State Issue 2 Funds for New/Expansion $_____ _____
(Not to Exceed 50%)

4.0 PROJECT SCHEDULE

		ESTIMATED START DATE	ESTIMATED COMPLETE DATE
4.1	ENGR. DESIGN	COMPLETED	
4.2	BID PROCESS	7 / 1 / 93	7 / 23 / 93
4.3	CONSTRUCTION	8 / 2 / 93	12 / 20 / 93

5.0 APPLICANT CERTIFICATION

The Applicant Certifies That:

As the official representative of the Applicant, the undersigned certifies that: (1) he/she is legally empowered to represent the applicant in both requesting and accepting financial assistance as provided under Chapter 164 of the Ohio Revised Code and 164-1 of the Ohio Administrative Code; (2) that to the best of his/her knowledge and belief, all representations that are a part of this application are true and correct; (3) that all official documents and commitments of the applicant that are a part of this application have been duly authorized by the governing body of the Applicant; (4) and, 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 minority business utilization, Buy Ohio, and prevailing wages.

IMPORTANT: Applicant certifies that physical construction on the project as defined in this application has not begun, and will not begin, until a Project Agreement on this project has been issued by the Ohio Public Works Commission. Action to the contrary is evidence that OPWC funds are not necessary to complete this project.

IMPORTANT: In the event of a project cost underrun, applicant understands that the identified local match share (sections 3.2(a) through 3.2(c) will be paid in full toward completion of this project. Unneeded OPWC funds will be returned to the funding source from which the project was financed.

HARRY ROLFES, MAYOR

Certifying Representative (Type Name and Title)

Harry A Rolfes 12/17/92

Signature/Date Signed

Applicant shall check each of the statements below, confirming that all required information is included in this application:

_____ A five-year Capital Improvements Report as required in 164-1-31 of the Ohio Administrative Code and a two-year Maintenance of Local Effort Report as required in 164-1-12 of the Ohio Administrative Code.

_____ A registered professional engineer's estimate of useful life as required in 164-1-13 of the Ohio Administrative Code. Estimate shall contain engineer's original seal and signature.

_____ A registered professional engineer's estimate of cost as required in 164-1-14 and 164-1-16 of the Ohio Administrative Code. Estimate shall contain engineer's original seal and signature.

_____ A certified copy of the legislation by the governing body of the applicant authorizing a designated official to submit this application and to execute contracts.

_____ YES _____ N/A A copy of the cooperation agreement(s) (for projects involving more than one subdivision or district).

_____ YES _____ N/A Copies of all invoices and warrants for those items identified as "pre-paid" in section 4.4 of this application.

6.0 DISTRICT COMMITTEE CERTIFICATION

The District Integrating Committee for District Number 2 Certifies That:

As the official representative of the District Public Works Integrating Committee, the undersigned hereby certifies: that this application for financial assistance as provided under Chapter 164 of the Ohio Revised Code has been duly selected by the appropriate body of the District Public Works Integrating Committee; that the project's selection was based entirely on an objective, District-oriented set of project evaluation criteria and selection methodology that are fully reflective of and in conformance with Ohio Revised Code Sections 164.05, 164.06, and 164.14, and Chapter 164-1 of the Ohio Administrative Code; and that the amount of financial assistance hereby recommended has been prudently derived in consideration of all other financial resources available to the project. As evidence of the District's due consideration of required project evaluation criteria, the results of this project's ratings under such criteria are attached to this application.

William W. Brayshaw, Chairman, District 2 Integrating Committee

Certifying Representative (Type Name and Title)

William W. Brayshaw 3-1-93

Signature/Date Signed

USEFUL LIFE EXPECTANCY CERTIFICATION

This is to certify that upon successful completion of the Harrison Avenue Phase III Improvements Project, the useful life expectancy will be at least 20 years.

Daniel W. Schoster, P.E.

STATE OF OHIO
DANIEL W. SCHOSTER
E-58614
REGISTERED PROFESSIONAL ENGINEER

ENGINEER'S ESTIMATE
HARRISON AVENUE PHASE III
CITY OF HARRISON
(CITY)

DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	TOTAL
Milling	SY	4,600	2	9,200
Sawcut	LF	3,910	3	11,730
Excavation	CY	500	2	1,000
Embankment	CY	10,000	2	20,000
ODOT 301 Asphalt Base	CY	1,100	65	71,500
ODOT 404 Asphalt Surface	CY	550	65	31,750
ODOT 403 Asphalt Scratch	CY	400	65	26,000
Subgrade Compaction	SY	4,800	4	19,200
Sodding	SY	4,400	6	26,400
Drywells	EA	6	2,500	15,000
Asphalt Drives	SY	317	20	6,340
12" RCP	LF	38	30	1,140
Concrete Aprons	SY	15	30	450
Clearing & Grubbing	LS	1	2,000	2,000
Maintain Traffic	LS	1	18,000	18,000
Water Works	LS	1	23,714	23,714
Adjust Utilities	LS	1	10,000	10,000
			TOTAL	$ 297,424

Daniel W. Schoster, P.E.

STATE OF OHIO
DANIEL W. SCHOSTER
REGISTERED
PROFESSIONAL ENGINEER

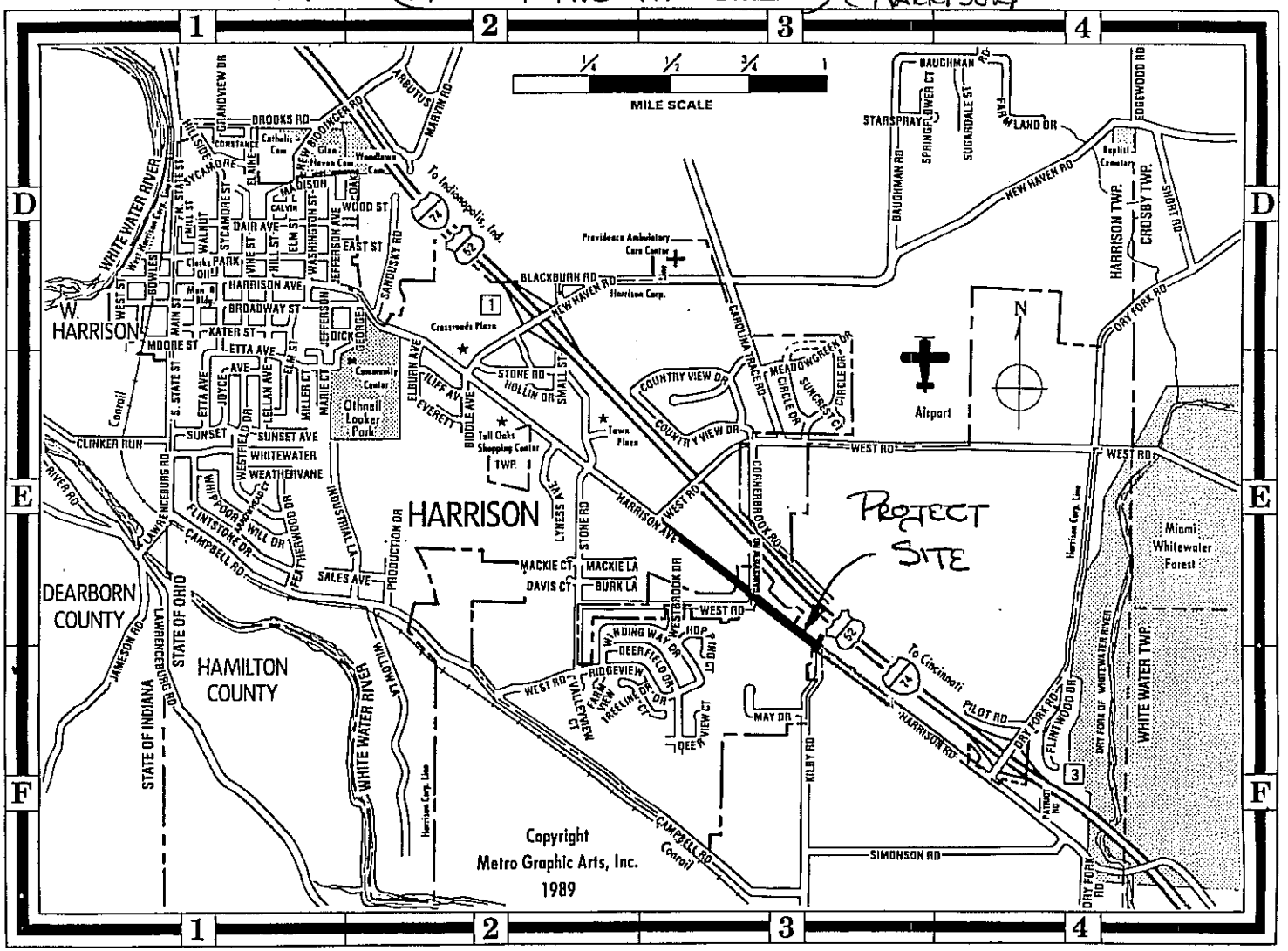
ENGINEER'S ESTIMATE
HARRISON AVENUE PHASE III
CITY OF HARRISON
(COUNTY)

DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	TOTAL
Milling	SY	633	2	1,266
Sawcut	LF	800	3	2,400
Excavation	CY	300	2	600
ODOT 301 Asphalt Base	CY	200	65	13,000
ODOT 404 Asphalt Surface	CY	50	65	3,250
Subgrade Compaction	SY	1,200	4	4,800
Sodding	SY	600	6	3,600
Asphalt Drives	SY	83	20	1,660
Maintain Traffic	LS	1	2,000	2,000
			TOTAL	$ 32,576

Daniel W. Schoster, P.E.

STATE OF OHIO
DANIEL W. SCHOSTER
E-56514
REGISTERED
PROFESSIONAL ENGINEER

VICINITY MAP - (HARRISON AVE. PHASE III) HARRISON



Harrison Avenue
Harrison

Transverse Cracking

Overall View of Widening

Harrison Avenue
Harrison

Transverse Cracking

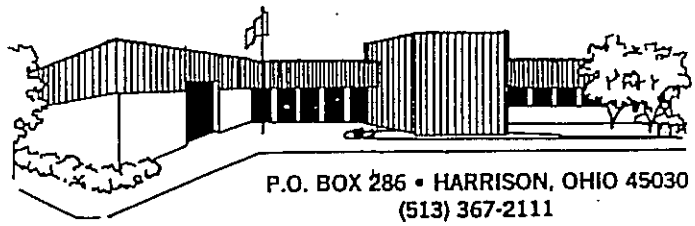
Pavement Ravelling
on the Edge

Harrison Avenue
Harrison

Pavement Cracking
Potholes Developing

Beginnings of Longitudinal
Cracking

CITY OF HARRISON



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(513) 367-2111

TWO YEAR MAINTENANCE OF LOCAL EFFORT REPORT
CITY OF HARRISON

1992	Harrison Avenue Phase II (Local & Issue II Funding)	$437,000
	Waterline Extension (Issue II Funding)	$335,000
	Water Tower (Issue II Funding)	$665,000
1991	Old Town Phase II (Local Funding)	$150,000
	Curb Program (Local Funding)	$ 35,000
	Harrison Avenue Phase I (MRF/Issue II Funding)	$395,000
	Valve Replacement Program (Local Funding)	$385,000
1990	Wastewater Treatment Plant (Local Funding)	$ 3 mil.
	Old Town Phase I (Local/CDBG Funding)	$185,000
	Waterline Extension (Local Funding)	$285,000

City of Harrison

112 N. Walnut Street • Harrison, Ohio 45030 • 513-367-4313

4/20/93

TO: WHOM IT MAY CONCERN

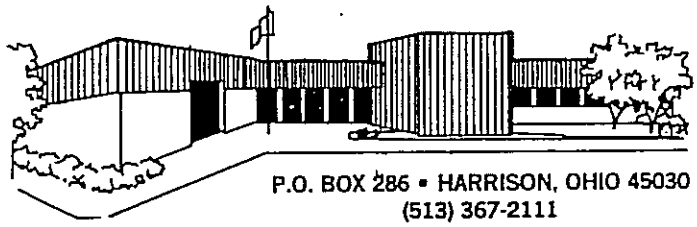
FROM: RICHARD DOLE ACTING FINANCE DIRECTOR

RE: STATUS OF FINANCE REPORT

THIS COMMUNICATION IS TO CONFIRM THAT THE CITY OF HARRISON WILL ALLOCATE $46,500.00 FROM THE GENERAL FUND FOR THE HARRISON AVE. PHASE III PROJECT.

RICHARD DOLE
ACTING FINANCE DIRECTOR
CITY OF HARRISON

CITY OF HARRISON



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(513) 367-2111

Cincinnati Gas & Electric Co. has awarded a Contract to relocate poles in Harrison Avenue from Broadway to New Haven and from West Road to Dry Fork Road.

This project will start in the first week of October, 1992 and should be completed in the Spring of 1993 by C.G.&E.'s Contractor.

This work will consist of Harrison's and Hamilton County's project of Harrison Avenue Phase II (New Haven-Broadway) which was bid in September, 1992 and Harrison Avenue Phase III (Stone to Kilby) which is the project being applied for now for Issue II funding in 1993.

This work will insure that there is no delay in constructing Phase III in 1993, if funded.

ADDITIONAL SUPPORT INFORMATION

For Fiscal Year 1994 (July 1, 1993 through June 30, 1994), jurisdictions shall provide the following support information to help determine which projects will be funded. Information on this form must be accurate, and where called for, based on sound engineering principles. Documentation to substantiate the individual items may be required by the Support Staff if information does not appear to be accurate.

1) What is the condition of the existing infrastructure to be replaced, repaired, or expanded? For bridges, submit a copy of the current State form BR-86.

Closed _____ Poor X

Fair _____ Good _____

Give a brief statement of the nature of the deficiency of the present facility such as: inadequate load capacity (bridge); surface type and width; number of lanes; structural condition; substandard design elements such as berm width, grades, curves, sight distances, drainage structures, or inadequate service capacity. If known, give the approximate age of the infrastructure to be replaced, repaired, or expanded.

Harrison Avenue is currently a 21' wide asphalt pavement with 2 lanes. Because of current expansion of shops and stores on Harrison Avenue, the existing 2 lane road does not sufficiently convey traffic volumes. This is a safety problem due to traffic making left hand turn movements on West Road which now is currently a 2 lane facility and proposed would have a left hand storage lane.

2) If State Issue 2 funds are awarded, how soon (in weeks or months) after receiving the Project Agreement from OPWC (tentatively set for July 1, 1993) would the project be under contract? The Support Staff will be reviewing status reports of previous projects to help judge the accuracy of a particular jurisdiction's anticipated project schedule.

4 weeks/months (Circle one)

Are preliminary plans or engineering completed? Yes No

Are detailed construction plans completed? Yes No

Are all right-of-way and easements acquired? Yes No N/A

Are all utility coordinations completed? Yes No N/A

Give an estimate of time, in weeks or months, to complete any item above not yet completed. N/A weeks/months

3) How will the proposed project impact the general health, safety and welfare of the service area? (Typical examples may include the effects of the completed project on accident rates, emergency response time, fire protection, health hazards, user benefits, and commerce.) Please be specific and provide documentation if necessary to substantiate the data.

Widening this pavement will greatly decrease the possibility of a rear end collision at the Harrison and West Road Intersection because of the extra lane that will be constructed. It will also alleviate traffic backup due to cars turning at this intersection.

4) What type of funds are to be utilized for the local share for this project?

Federal _____ ODOT _____ Local X

MRF XX ODNR _____ CD _____

Other _____

Note: If MRF funds are being used for the local share, the MRF application must have been filed by August 1, 1992 for this project with the Hamilton County Engineer's Office.

The minimum amount of matching funds for grant projects (local share) must be at least 10% of the TOTAL CONSTRUCTION COST. What percentage of matching funds are being committed to this project?

10 %

5) Has any formal action by a federal, state, or local government agency resulted in a complete or partial ban of the use or expansion of use for the involved infrastructure? (Typical examples include weight limits, truck restrictions, and moratoriums or limitations on issuance of building permits.) A copy of the legislation must be submitted with the application. THE BAN MUST HAVE AN ENGINEERING JUSTIFICATION TO BE VALID.

Complete Ban _____ Partial Ban _____ No Ban XX

Will the ban be removed after the project is completed?

Yes _____ No _____

6) What is the total number of existing users that will benefit as a result of the proposed project?

12,800 VPD x 1.2 = 15,360 VPD

For roads and bridges, multiply current documented Average Daily Traffic by 1.20. For public transit, submit documentation substantiating the count. Where the facility currently has any restrictions or is partially closed, use documented traffic counts prior to the restriction. For storm sewers, sanitary sewers, water lines, and other related facilities, multiply the number of households in the service area by 4.

7) Has the jurisdiction developed a Five Year Capital Improvement Plan as required in O.R.C., chapter 164? (This must be included with the application to be considered for funding.)

Yes XX No _____

8) Give a brief statement concerning the regional significance of the infrastructure to be replaced, repaired, or expanded.

This project will affect unincorporated Hamilton County, the City of Harrison and traffic exiting from I-74. It will alleviate a safety problem at the intersection of West Road and Harrison Avenue enabling left hand turn movements.

STATE ISSUE 2 PROGRAM - ROUND 6

LTIP PROGRAM - ROUND 5

FISCAL YEAR 1994 PROJECT SELECTION CRITERIA - JULY 1, 1993 TO JUNE 30, 1994

ADOPTED BY THE DISTRICT 2 INTEGRATING COMMITTEE JULY 17, 1992

AMENDED BY THE DISTRICT 2 INTEGRATING COMMITTEE SEPTEMBER 18, 1992

JURISDICTION/AGENCY: CITY OF HARRISON

NAME OF PROJECT: HARRISON AVE. REHAB & WIDENING - PHASE 3

TOTAL POINTS FOR THIS PROJECT: 47

NO. POINTS

10 1) If Issue 2/LTIP Funds are granted, when would the construction contract be awarded? (The Support Staff will assign points based on engineering experience.)

10 Points - Will be under contract by end of 1993

5 Points - Will be under contract by March 30, 1994

0 Points - Will not be under contract by March 30, 1994

4 2) What is the condition of the infrastructure to be replaced or repaired? For bridges, base condition on latest general appraisal and condition rating.

(POOR)

20 Points - Poor Condition
16 Points -
12 Points - Fair to Poor Condition
8 Points -
4 Points - Fair Condition

NOTE: If the infrastructure is in "good" or better condition it will NOT be considered for Issue 2/LTIP funding, unless it is a betterment project that will improve serviceability.

10 3) If the project is built, what will be its effect on the facility's serviceability?

10 Points - Significant effect (e.g., widen to and add lanes along entire project)
8 Points - Moderate to significant effect
6 Points - Moderate effect (e.g., widen exist. lanes)
4 Points - Moderate to little effect
2 Points - Little or no effect (e.g., street or bridge deck rehabilitation)

6 4) How important is the project to HEALTH, SAFETY, AND WELFARE of the public and the citizens of the District and/or service area?

NOTICEABLE IMPACT ON SAFETY & WELFARE (DEVELOPMENT)

10 Points - Highly significant importance, with substantial impact on all 3 factors
8 Points - Considerably significant importance, with substantial impact on 2 factors OR noticeable impact on all 3 factors
6 Points - Moderate importance, with substantial impact on 1 factor or noticeable impact on 2 factors
4 Points - Minimal importance, with noticeable impact on 1 factor
2 Points - No measurable impact

6 5) What is the overall economic health of the jurisdiction?

10 Points - Poor
8 Points -
6 Points - Fair
4 Points -
2 Points - Excellent

1 6) What matching funds are being committed to the project, expressed as a percentage of the TOTAL CONSTRUCTION COST? Loan and Credit Enhancement projects automatically receive 5 points, and no match is required. All grant funded projects require a minimum of 10% matching funds.

5 Points - 50% or more
4 Points - 40% to 49.99%
3 Points - 30% to 39.99%
2 Points - 20% to 29.99%
1 Point - 10% to 19.99%

10%

0 7) Has any formal action by a federal, state, or local government agency resulted in a partial or complete ban of the usage or expansion of the usage for the involved infrastructure? POINTS MAY ONLY BE AWARDED IF THE END RESULT OF THE PROJECT WILL CAUSE THE BAN TO BE LIFTED.

5 Points - Complete or significant ban
3 Points - Partial or moderate ban
0 Points - No ban of any kind

5 8) What is the total number of existing daily users that will benefit as a result of the proposed project? Appropriate criteria include current traffic counts, households served, when converted to a measurement of persons. Public transit users are permitted to be counted for roads and bridges, but only when certifiable ridership figures are provided.

15,360 VPD / 18,432 USERS / DAY

5 Points - 10,000 or more
4 Points - 7,500 to 9,999
3 Points - 5,000 to 7,499
2 Points - 2,500 to 4,999
1 Point - 2,499 and under

(5 PTS IN ROUND 6)

4 9) Does the infrastructure have REGIONAL impact? Consider origins and destinations of traffic, functional classification, size of service area, number of jurisdictions served, etc.

NOT-QUITE-PRIMARY FEED TO INTERSTATE

5 Points - Major impact (e.g., major multi-jurisdictional route, primary feed route to an Interstate, Federal - Aid Primary routes)
4 Points -
3 Points - Moderate impact (e.g., principal thoroughfares, Federal - Aid Urban routes)
2 Points -
1 Point - Minimal or no impact (e.g., cul-de-sacs, subdivision streets)

1 10) Has the jurisdiction enacted the optional $5 license plate fee, an infrastructure levy, a user fee, or a dedicated tax for infrastructure?

2 Points - Two of the above
1 Point - One of the above
0 Points - None of the above

ADDENDUM TO THE RATING SYSTEM
DEFINITIONS

CRITERION 2 - CONDITION

Poor - Condition is dangerous, unsafe or unusable

Fair to Poor - Condition is inadequate or substandard

Fair - Condition is average, not good or poor

CRITERION 5 - ECONOMIC HEALTH

The following factors are used to determine economic health:

1) Median per capita income

2) Per capita assessed valuation of the total community real estate and personal property

3) Poverty indicators

4) Effective tax rates

5) Total corporate debt as a percentage of assessed valuation

6) Municipal revenues and expenditures per capita

CRITERION 9 - REGIONAL IMPACT

Major impact -	Primary water or sewer main serving an entire system
Moderate impact -	Waterline or storm sewer serving only part of a system
Minimal impact -	Individual waterline or storm sewer not part of a system