

PLEASE SEND APPLICATIONS TO:

SERGEANT JAMES HOSTUTLER  
SECOND DISTRICT COORDINATOR  
42145 W. SEVEN MILE ROAD  
NORTHVILLE, MICHIGAN 48167

(313) 348-9550

### PART III - PROJECT AND BUDGET NARRATIVE STATEMENT

The portion of southeast Detroit, known as the Fox Creek area which has Federal Emergency Management Agency zone designations AO and B, consist of about 1100 acres and a population of about 12,500.

At several locations on canals in this area, existing seawalls and/or dikes are breeched and water is flowing thru private and onto public properties. Serious property damage has already occurred at these locations, damaging or destroying yards and civil engineering structures such as concrete garage floor slabs and driveways. This in turn has led to the expensive erosion, undermining and damage of public walks and street pavements. Existing street drainage and sewer systems are severely overloaded and any additional flooding will cause the sewer system to back up into basements all over the area.

- A) The present repair program consists of stemming the flooding at the major "leakers", which in most cases is subsurface and indicates breeches in the seawalls or dikes below water level. The City of Detroit has hired a private contractor to affect these repairs under emergency provisions of the Detroit City Code.

The program consists of:

1. Removing concrete slabs and
2. Construct sand bag or clay dikes or
3. Short sheet pile cut-off walls

At the following locations:

- 1) 14520 Scripps - Remove necessary concrete drive and install 30 lft sheet pile, est. cost \$6,000.

PART III - PROJECT AND BUDGET NARRATIVE STATEMENT (Continued)

- 2) 14528 Scripps - Remove necessary concrete slabs and install 50 lft of sheet pile, est. cost \$11,000.
- 3) 191 Ashland - Remove concrete walk and install 45 lft sheet pile, est. cost \$10,000.
- 4) 414 Ashland - Remove concrete slab, install clay dike behind existing sea wall, and 40 lft sheet pile if needed, est. cost \$5,000.
- 5) 552 Ashland - Remove walk at rear of house and install 30 lft sheet pile, est. cost \$6,000.
- 6) 502 Ashland - Remove 30' concrete slab and install clay berm est. cost \$1,500.
- 7) 14604 Klenk - Remove 80 feet concrete slab and reinforce existing diking, est. cost \$3,000.
- 8) 670 Ashland - Install 30 feet of clay dike at existing sea wall, est. cost \$3,000.
- 9) 374 Ashland - Remove concrete slab and install clay berm behind existing seawall, est. cost \$2,000.
- 10) 14716 Scripps - Remove concrete walk, fencing, and extend existing clay berm, est. cost \$2,000.

In addition, we estimate additional private contractor work of \$20,000 to control additional locations of flooding which we anticipate will occur later this spring.

PART III - PROJECT AND BUDGET NARRATIVE STATEMENT (Continued)

Estimated contract work of 10 locations above	\$49,500
Estimated future contract work	20,000
Contract Administration and Field Inspection	<u>5,500</u>
	\$75,000

B) The Detroit Department of Public Works has provided filled sand bags and clay, free of charge, to the local residents in order for individual residents to construct their own flood barriers. In addition, the DPW has constructed flood barriers on endangered public streets and alleys. It is estimated that the DPW has spent \$45,000 from October 1, 1985 thru March 16, 1986 and it is estimated that they will spend another \$65,000 this spring or a total of \$110,000.

C) In an effort to find a long term solution to control the water levels in the canal system, the City of Detroit has hired an Engineering Consulting firm to make a feasibility study. It is anticipated that a system of gates, weirs and/or locks might be constructed at the Detroit River to control water levels and eliminate the threats of flooding. This study will cost \$27,000.

SUMMARY

A) Repair of major "leakers" with a private contractor	\$ 75,000
B) Supply of dike materials and construction of flood barriers by DPW	110,000
C) Feasibility Study	<u>27,000</u>
TOTAL =	\$212,000

APPLICANT INFORMATION

1. Submit application to the Emergency Management Division (EMD) through the appropriate EMD District Coordinator stationed at the Department of State Police District Headquarters located throughout the state.
2. Any county (and municipal government within county) identified in the existing disaster proclamation may apply. Counties eligible for assistance are: Allegan, Arenac, Bay, Berrien, Grand Traverse, Iosco, Macomb, Marquette, Menominee, Monroe, Muskegon, Ottawa, Saginaw, St. Clair, Tuscola, Van Buren and Wayne.
3. Application is on a project basis, strictly for public projects. Any number of project applications may be submitted from a local political subdivision up to the dollar amount identified below. Project applications shall contain estimated costs of project. Projects will be reviewed and approved or denied, with notice sent to the jurisdiction immediately. Funding assistance allocations will be made as follows:

Local political subdivisions with a population of:	<u>20,000 or Less</u>	<u>Over 20,000</u>
Maximum per project (state share)	\$20,000	\$25,000
Maximum per jurisdiction (state share)	\$30,000	\$40,000

NOTE: Projects are approved on a cost sharing basis, 85% state share and 15% local share. Reimbursement is limited to the 85% state share or the above applicable amount, whichever is less.

4. Local political subdivisions' applications must be of benefit in mitigating the effects of erosion and/or flooding to prevent loss of life and serious property damage. Projects may consist of (but are not limited to) purchase of sandbags (after state resources are exhausted) sand, pumps, protection of public roads, installation of sewer system flood fighting equipment, etc. or other innovative techniques in mitigating the effects of flooding. Advance measure projects previously approved by the Army Corps of Engineers will not be eligible.
5. Applications may be submitted retroactive to the start of the current state fiscal year (October 1, 1985).
6. No applications will be accepted for projects after April 1, 1986.
7. Applications will be reviewed and approved based on a cost/benefit analysis.
8. An advance of funds equal to 50% of the project will be made upon project approval.
9. At the termination of the project, each local political subdivision applicant shall submit to EMD proper documentation substantiating the expenditures. This should include (but is not limited to) invoices, contracts, copies of cancelled checks, vouchers, etc. When review of the billing is completed, final reimbursement procedures will commence.

**STATE ASSISTANCE  
SHORELINE COMMUNITY PROTECTION PROGRAM**

Department of State Police  
EMERGENCY MANAGEMENT DIVISION  
111 S. Capitol Avenue, Lower Level  
Lansing, MI 48913  
Phone: (517) 373-0617

<b>INTERNAL USE ONLY</b>
Application No. _____
Date Rec'd. _____
Account No. _____
Check No. _____

**PART I - APPLICANT DATA**

<p><b>1. POLITICAL SUBDIVISION</b></p> <p>1.1 Name _____</p> <p>1.2 Address _____</p> <p>_____</p> <p>1.3 Population _____</p> <p>1.4 Federal ID No. _____</p>	<p><b>2. APPLICANT'S CONTACT</b></p> <p>2.1 Name _____</p> <p>2.2 Title _____</p> <p>2.3 Address _____</p> <p>_____</p> <p>2.4 Telephone _____</p>
<p><b>3. AREA OF PROJECT IMPACT</b></p> <p>_____</p>	<p><b>4. ESTIMATED NUMBER OF PERSONS BENEFITING</b></p> <p>_____</p>
<p><b>5. TYPE OF APPLICATION (check one)</b></p> <p>5.1 New _____</p> <p>5.2 Revision _____</p> <p>5.3 Augmentation _____</p>	<p><b>6. TYPE OF CHANGE (check appropriate items)</b></p> <p>6.1 N/A _____</p> <p>6.2 Increase Dollars _____</p> <p>6.3 Decrease Dollars _____</p> <p>6.4 Change Timing _____</p> <p>6.5 Cancellation _____</p> <p>6.6 Other (specify) _____</p>
<p><b>7. PROJECT START</b>      <b>8. PROJECT TERMINATION</b></p> <p>(month/day/year)      (month/day/year)</p> <p>_____      _____</p>	
<p>9. _____</p> <p style="text-align: center;">NAME &amp; TITLE</p>	<p>10. _____</p> <p style="text-align: center;">SIGNATURE &amp; DATE</p>

**PART II - BUDGET SUMMARY (Round to Dollars)**

Object Class Categories	Current Approved Budget (a)	Change Requested (b)	New or Revised Budget (c)
1. Personnel			
2. Fringe Benefits			
3. Travel			
4. Equipment			
5. Supplies			
6. Contractual			
7. Construction			
8. Other			
9. TOTAL			
10. Local Share			
11. State Share			
12. Other Share			

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9. At the termination of the project, each local political subdivision applicant shall submit to EMD proper documentation substantiating the expenditures. This should include (but is not limited to) invoices, contracts, copies of cancelled checks, vouchers, etc. When review of the billing is completed, final reimbursement procedures will commence.

PART III - PROJECT AND BUDGET NARRATIVE STATEMENT (Continued)

The Public Works Department - Fox Creek Flooding cost is as follows:

For the period February 24 thru March 16, 1986 is as follows:

Labor	\$ 7,944
Supervision	106
Equipment	3,669
Materials	<u>585</u>
	\$16,197

The projected cost of the DPW for sand bags will be at this level for the next twelve (12) weeks; or

$$5,400/12 = \$65,000.00$$





bcc: N. Kawwas  
R. Karber  
R. Ellena  
J. Crane  
J. Wickey

*Coleman A. Young, Mayor  
City of Detroit*

*City Engineering Department  
Ninth Floor Cadillac Tower  
Detroit, Michigan 48226*

March 26, 1986

HONORABLE CITY COUNCIL

RE: Compliance with City of Detroit Section 21-3-6(B)  
Approval of Emergency Contract - To Control and Abate  
Flooding of Areas in the City of Detroit (86-034)

In response to the request of Mr. Conley Abrams, Director of the Department of Public Works, your Honorable Body on March 20, 1986, approved the transfer of one hundred and fifty thousand dollars (\$150,000.00) from Appropriation No. 94-0388 (Repayment of Short Term Borrowing) to Appropriation No. 22-0048 (Special Projects). These funds are to be used to erect and construct barriers, dikes or embankments and to take other measures as are necessary to control the flood waters in the City of Detroit.

In recognition of the emergency situation of possible flooding and the extremely limited time for the construction activities to control and abate flooding, it was decided to secure the services of private contractors to supplement the efforts of the City's own forces. On March 19, 1986, four firms were contacted by this Department regarding their interest in providing services. Two firms, Jutton-Kelly Company and P. M. Marine, declined from participation and two firms, O'Laughlin Construction Company and Waterfront Construction, Inc., indicated interest in this work. On March 20, 1986, representatives of these two firms accompanied by staff members of the City Engineering Department visited the work site and inspected various locations which will require work to control flooding. Each firm received an informal bidding information sheet and was instructed to submit informal bids by 1:30 p.m. on March 21, 1986.

Both firms submitted similar costs for labor, material and equipment rental cost and with O'Laughlin Construction Company indicating that they could immediately start work. Upon review, the City Engineering Department selected O'Laughlin Construction Company to perform work in the contract amount not to exceed fifty thousand dollars (\$50,000.00). O'Laughlin Construction Company commenced full operations on Monday, March 24, 1986 at locations as directed by the City's representative.

March 26, 1986

In order to expedite the time schedule to permit immediate construction activity to control and abate flooding conditions, it was necessary to utilize the emergency provision of the City of Detroit Code, Section 21-3-6(B) which provides for waiver of competitive bids when "Public exigencies require the immediate delivery of the articles or performance of the service." By the same above-referenced section of the City Code, the Finance Department Director, Bella Marshall, as of March 21, 1986 authorized a special Finance Directive to process purchase requisitions on an emergency basis. (Directive attached) Under the authority of the executed directive, this Department on March 21, 1986, entered into an interim agreement with O'Laughlin Construction Company to perform work for the protection of health, safety and welfare of the public (Letter of Intent attached).

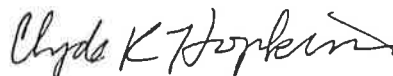
The interim agreement with the O'Laughlin Construction Company provides for reimbursement not to exceed fifty thousand dollars (\$50,000.00). A formal contract is being prepared and will be submitted for approval when it is agreed to by both parties and within thirty (30) days as specified in the Detroit City Code, Section 21-3-6(B).

This letter is in strict compliance with the Detroit City Code, Section 21-3-6(B)(ii) which requires that:

"The Purchasing Director or other person authorized by the Purchasing Director to make emergency procurements shall, within one week of the procurement notify the City Council in writing of the procurement and the basis for the emergency and for the selection of the particular contractor."

As the work progresses on this contract, you will continue to be informed of the steps taken by this Department to ensure control and abatement of flooding for the public safety, health and welfare. Your continuing cooperation is appreciated in the resolution of this condition.

Respectfully submitted,



Clyde R. Hopkins  
Director

JVW:mmm

Attachments

cc: F. Martin, Mayor's Office  
B. Marshall, Finance Dept.  
J. Kanters, Finance Dept.  
C. Abrams, D.P.W.  
D. Pailen, Law Dept.  
K. Johnson, Civil Defense  
O. Collins, Purchasing Div.  
R. Kueber, Purchasing Div.  
J. Messner, Budget Dept.  
E. Kennedy, City Engineering Dept.

STATE OF MICHIGAN  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF LAND RESOURCE PROGRAMS

PERMIT FOR  
MINOR PROJECT ACTIVITIES

ATF

Permit No. 87-14-195  
Date Issued March 5, 1987  
Extended \_\_\_\_\_  
Revised \_\_\_\_\_  
Expires Dec 31, 1988

This permit is granted under provisions of:

- The Inland Lakes and Streams Act, 1972 P.A. 346, as amended.
- The Great Lakes Submerged Lands Act, 1955 P.A. 247, as amended.
- Flood Plain Regulatory Act, 1929 P.A. 245, as amended.
- The Goemaere-Anderson Wetland Protection Act, 1979 P.A. 203.

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City of Detroit  
900 Cadillac Tower  
65 Cadillac Sq.  
Detroit, MI. 48226

OTHER: (Specify other authority under which permit is issued.)

Permitted Activity  
Construct approximately 105 lineal feet of steel bulkhead, a maximum of 6 inches waterward of existent structure. All work shall be in accordance with the attached plans dated 3-2-87.

Water Course Affected <u>Fox Creek Canal</u>	County <u>Wayne</u>	Town <u>25</u>	Range <u>13E</u>	Sect. <u></u>	Sub. and Lot Number <u>Fox Creek Sub'n # 467-470</u>
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ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS ATTACHED HERETO. Authority granted by this permit is subject to the limitations and conditions marked with an (x) or (✓) below and to the limitations and conditions appearing on the reverse side of this permit.

- Unless authorized by attached plan, seawall, bulkhead or revetment structure shall not extend waterward of existing or ordinary water's edge or alignment of adjacent seawalls. Structure shall be in place prior to placement of backfill materials.
- No fill or dredge material shall be placed in a wetland or in such a manner as to impede surface water flow unless authorized by the attached plan.
- Fill shall consist of clean, inert materials which will not cause siltation nor contain soluble chemicals or organic matter which is biodegradable. All fill shall be contained in such a manner as not to erode into any watercourse or wetland. All raw banks shall be stabilized with sod, seed, fertilizer and mulch or riprapped as necessary to prevent erosion.
- All dredge spoils and excavated materials, including organic and inorganic soils, vegetation and debris shall be placed above the ordinary high water mark, leveled and stabilized with sod and/or seed, fertilizer and mulched, in such a manner as not to erode into any waterbody or wetland.
- All sand shall be clean beach sand.  
Sand shall not exceed \_\_\_\_\_ inches in depth.  
The location of the existing shoreline contour shall not be altered.  
Sand shall not extend below the four foot underwater contour line.
- To conform with 1929 P.A. 245, as amended, neither spoils nor dikes are authorized to be placed between the pond, lagoon, basin, or artificial waterway and the existing stream channel.  
No connection of the pond, lagoon, basin, or artificial waterway to the stream is authorized.

Other No dredging or filling is authorized by this permit.  
 All shore protection structures must be located within 6" of existent structure.  
 All construction operations relating to or part of this project shall be confined to the right of way limits of the City of Detroit or acquired easements.

- DLRP, Lansing
- DLRP, Region/District
- Public Health
- Act 347 CEA
- USCE & USEFWS
- contractor
- \_\_\_\_\_
- Water Mngt. Div.
- District Law

Director, Department of Natural Resources  
By Barry J. Horney  
Barry J. Horney

City of Detroit  
Page 2

#87-14-195 ATF

This permit is granted conditionally under circumstances of emergency or urgency as listed to protect property or general public welfare. Should this permit result in an unreasonable encroachment, interference with adjacent riparians or the public trust, permittee agrees, in exercising the authority granted herein, to make adjustments in the project as may be ordered by the Department of Natural Resources.

ASHLAND AVE.



#696  
LOT 466

LOT 467  
# 690

LOT 468  
# 684

LOT 469  
# 680  
# 678

LOT 470  
# 666

EXISTING SEAWALL

NEW SHEET PILING

CANAL

GAR.

30'

30'

45'

ATF  
DWG F-20#87-14-195 ATF  
3-2-87

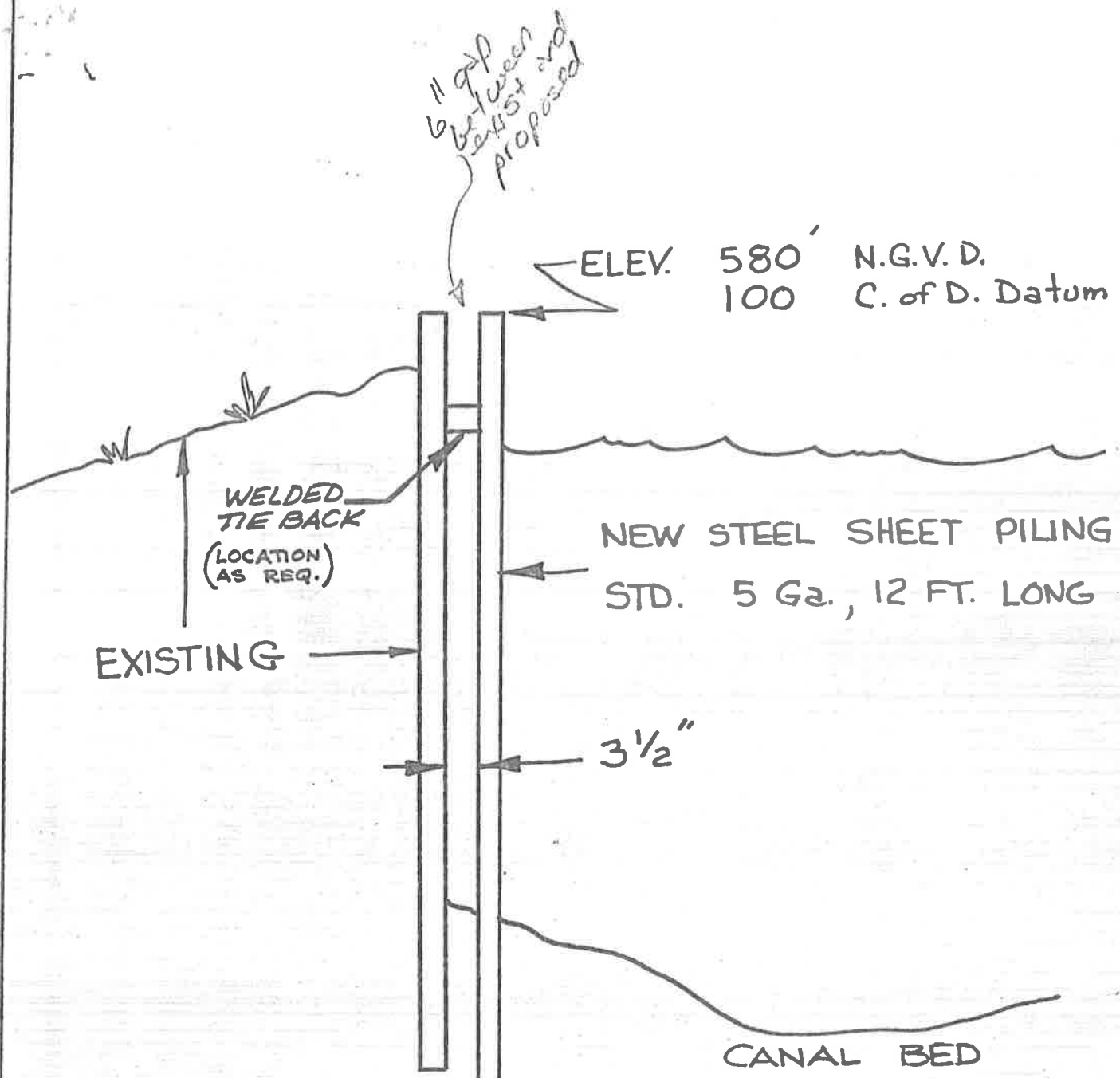
NO SCALE

B					
A					
DESCRIPTION	Drwn	Chkd	Appd	Date	
REVISIONS					
DRAWN BY	APPROVED				
A. J. T.					
TRACED BY	APPROVED				
CHECKED	APPROVED				
CITY ENGINEER					

SEAWALL REPAIR

# 678, 680, 684  
AND 690  
ASHLAND

CITY OF DETROIT	
Dept. of Public Works	
City Engineers Office	
Job No.	
Drwg. No.	
Date	2-87



ATF

DWR File # 87-14-195

ATF  
3-2-87

NO SCALE

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DESCRIPTION	Drwn	Chkd	Appd	Date
REVISIONS				
DRAWN BY A.J.T.	APPROVED			
TRACED BY	APPROVED			
CHECKED	APPROVED			
CITY ENGINEER				

TYPICAL  
CROSS SECTION  
FOX CREEK CANAL  
SEAWALL REPAIRS

CITY OF DETROIT  
Dept. of Public Works  
City Engineers Office

Job No.

Drwg. No.

Date FEB 87



*J. Crane*  
D. Ellena, file

*City Engineering Department  
Ninth Floor Cadillac Tower  
Detroit, Michigan 48226*

*Coleman A. Young, Mayor  
City of Detroit*

March 21, 1986

O'Laughlin Construction Company  
24460 Novi Road  
P. O. Box 466  
Novi, Michigan 48050

Gentlemen:

Re: Letter of Intent to Enter into Agreement to Provide  
Services to Control and Abate Possible Flooding Resulting  
from High Level of Water in the Detroit River  
Detroit, Michigan (86-027)

This letter is issued under emergency conditions to advise you that it is our intention to enter into formal contract with you to perform the above described work. This letter authorizes you to immediately proceed with required actions as herein described for the protection of health, safety and welfare of the public. The letter is in full accord with Special Finance Directive dated March 21, 1986, pursuant to Ordinance 521-H of the City of Detroit Code, Section 21-3-6(B).

The scope of the project is to generally consist of the following:

- A. O'Laughlin Construction Company shall -
1. Provide all labor, materials and equipment to fully perform the work, excepting those activities as defined in Section B.
  2. Conform to all applicable safety requirements issued by all concerned jurisdictional authorities, including all laws and ordinances.
  3. Provide a Performance Bond and a Payment Bond both running to the City of Detroit in the full amount of the Maximum Limit established herein to fully guarantee completion of the work on a timely basis and protect the City against claims for unpaid billings.
  4. The Contractor shall maintain at its expense during the term of this contract, the following insurance:
    - (a) Worker's compensation insurance with Michigan statutory limits and employers' liability insurance with minimum limits of \$100,000 each accident.

March 21, 1986

- (b) Comprehensive public liability insurance with minimum limits of \$1,000,000 combined single limit, each occurrence, for bodily injury and property damage.
  - (c) Automobile liability insurance covering all owned, hired and non-owned vehicles with personal protection insurance and property protection insurance to comply with the provisions of the Michigan No Fault Insurance Law including residual liability insurance with minimum limits to \$1,000,000.00 combined single limit bodily injury and/or property damage each accident.
5. Develop and receive approval of City Engineering Department of a Schedule of Operations. All schedules will be subject to revision to meet field conditions. The Schedule of Operations will be reviewed by the Contractor and City Engineering Department in order to make any necessary adjustments in the program.
  6. Obtain all clearances, permits and other necessary approval to carry out the purpose of this contract.
  7. Deliverables under the contract are:
    - (a) Furnish personnel, materials, supplies and equipment to construct and repair structures to control and abate flooding conditions.
    - (b) Furnish all records necessary to establish the cost of providing work at various locations. The records will include time and material records.
  8. Take every effort to conform to City of Detroit rules, regulations and Executive Orders concerning human rights, affirmative action and employment opportunities.
- B. City Engineering Department shall -
1. Provide a Field Project Manager at the work site.
  2. Provide competent professionals to advise the Contractor in a proper and timely fashion.
  3. Provide and furnish free of cost all records, drawings, plans, specifications, and charts required by the Contractor to perform the work.
  4. At the option of the City, provide sandbags or other construction materials.
  5. Cooperate in obtaining all clearances, permits and other necessary approval to carry out the purpose of this contract.
  6. Accept the proposal of O'Laughlin Construction Company dated March 21, 1986, establishing wage rates and equipment rates.



March 21, 1986

The O'Laughlin Construction Company accepts the relationship of trust and confidence established between him and the City Engineering Department. He covenants with the City Engineering Department to furnish his best skill and judgment and to cooperate with all involved parties in furthering the interest of the City Engineering Department. He agrees to furnish efficient business administration and superintendence and to use his best efforts to complete the Project in the best and soundest way and in the most expeditious and economical manner consistent with the interest of the City Engineering Department.

## Project Costs:

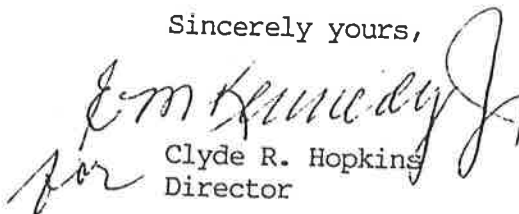
1. The total cost of the contract to perform the work, as described above, shall not exceed fifty thousand dollars (\$50,000.00) which is payment in total for all labor, material and equipment.
2. The method of payment will be as stated in City of Detroit General Conditions for Contracts, Article 20C (as amended), Methods for Determining Adjustments in Contract Price (Cost-Plus-Limited Amount), hereinafter attached.

## Project Manager:

City Engineering Department has designated James Crane as Field Project Manager. O'Laughlin Construction Company has designated Robert Bogerty as their Project Manager.

Mobilization shall commence within one day of O'Laughlin Construction Company's receipt of this signed Letter of Intent and a schedule of operation shall be developed acceptable to City Engineering Department.

Sincerely yours,

*for*   
Clyde R. Hopkins  
Director

JVW:mm  
Attachment

Accepted for O'Laughlin Construction Company

By: *Robert L. Bogerty*  
Title: *Project Manager*  
Date: *March 21, 1986*

cc: C. R. Hopkins	B. Marshall (Finance)
E. Kennedy	W. Stecher (Budget)
N. Kawwas	J. Kanters (Finance)
R. Karber	J. Messner (Budget)
J. Crane ✓	D. Pailen (Law)
J. Wickey	O. Collins (Finance)
C. Abrams (DPW)	K. Johnson (Civil Defense)

## GENERAL CONDITIONS

## 20. METHODS FOR DETERMINING ADJUSTMENTS IN CONTRACT PRICE

Adjustments, if any, in the Contract price, either additive or subtractive, by reason of a change or modification in the Contract ordered in writing by the City Officer, shall be limited to the amount stated in the written order. Adjustment in price shall be determined by one or more of the following methods, the City Engineer having the right to select the method or methods used.

C. *Cost-Plus-Limited Amount*: By this method, the amount of adjustment will be determined by (a) the actual, necessary, and reasonable costs directly incurred by the Contractor or subcontractor, plus (b) a fixed percent, and (c) with the total amount limited to the maximum amount stated in the City Officer's written order.

The total amount of the adjustment will be determined as follows:

"Actual cost" will consist of:

- 1) *Labor*: Being the amount shown on the Contractor's payroll for direct labor used, with payroll taxes or contributions for Unemployment Insurance Compensation and Federal Social Security, etc., added, when same have been incurred. In no case, however, shall the wage rates charged for labor exceed the wage rates paid for the same class of labor employed on the original Contract work; plus
- 2) *Materials*: Being the net cost of materials, including the cost of transportation to the site, as shown by invoices; plus
- 3) *Equipment*: Being the actual cost of equipment rental, or rental value if contractor-owned, but not to exceed the prevailing rentals charged in the Detroit district for equipment of like size and condition, plus the actual incurred costs for necessary supplies and repairs for operating the equipment; plus
- 4) *Insurance*: Being the net additional cost of insurance premiums which are incurred and which are determined from the labor payrolls, limited, however, to such types of insurance required by the Contract.

To the total sum of Items 1 through 4 shall be added the following percent:

- 5) *For Work Done by Contractor's Forces*: Ten percent (10%) plus fifteen percent (15%) for all items of expense, use of ordinary tools, general overhead and profit.

STATE OF MICHIGAN  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF LAND RESOURCE PROGRAMS

PERMIT FOR  
MINOR PROJECT ACTIVITIES

ATF

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- The Goemaere-Anderson Wetland Protection Act, 1979 P.A. 203.

Permit No. 87-14-193  
Date Issued March 5, 1987  
Extended \_\_\_\_\_  
Revised \_\_\_\_\_  
Expires Dec 31, 1988

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City of Detroit  
 900 Cadillac Tower  
 65 Cadillac Sq.  
 Detroit, mi. 48226

OTHER: (Specify other authority under which permit is issued.)

Permitted Activity

Construct approximately 90 lined feet of steel bulkhead a maximum of 6 inches waterward of existent structure. All work shall be in accordance with the attached plans dated 3-2-87

Water Course Affected	County	Town	Range	Sect.	Sub. and Lot Number
Fox Creek Canal	Wayne	25	13E		Fox Creek Subn #91-94

ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS ATTACHED HERETO. Authority granted by this permit is subject to the limitations and conditions marked with an (x) or (✓) below and to the limitations and conditions appearing on the reverse side of this permit.

- Unless authorized by attached plan, seawall, bulkhead or revetment structure shall not extend waterward of existing or ordinary water's edge or alignment of adjacent seawalls. Structure shall be in place prior to placement of backfill materials.
- No fill or dredge material shall be placed in a wetland or in such a manner as to impede surface water flow unless authorized by the attached plan.
- Fill shall consist of clean, inert materials which will not cause siltation nor contain soluble chemicals or organic matter which is biodegradable. All fill shall be contained in such a manner as not to erode into any watercourse or wetland. All raw banks shall be stabilized with sod, seed, fertilizer and mulch or riprapped as necessary to prevent erosion.
- All dredge spoils and excavated materials, including organic and inorganic soils, vegetation and debris shall be placed above the ordinary high water mark, leveled and stabilized with sod and/or seed, fertilizer and mulched, in such a manner as not to erode into any waterbody or wetland.
- All sand shall be clean beach sand.  
Sand shall not exceed \_\_\_\_\_ inches in depth.  
The location of the existing shoreline contour shall not be altered.  
Sand shall not extend below the four foot underwater contour line.
- To conform with 1929 P.A. 245, as amended, neither spoils nor dikes are authorized to be placed between the pond, lagoon, basin, or artificial waterway and the existing stream channel.

No connection of the pond, lagoon, basin, or artificial waterway to the stream is authorized.

- Other No dredging or filling is authorized by this permit,
- All shore protection structures must be located within 6" of existent structure
- All construction operations relating to a part of this project shall be confined to the right-of-way limits of the City of Detroit or acquired easements.

- DLRP, Lansing
- DLRP, Region/District
- Public Health
- Act 347 CEA
- USCE & USFWS

- contractor
- \_\_\_\_\_
- Water Mngt. Div.
- District Law

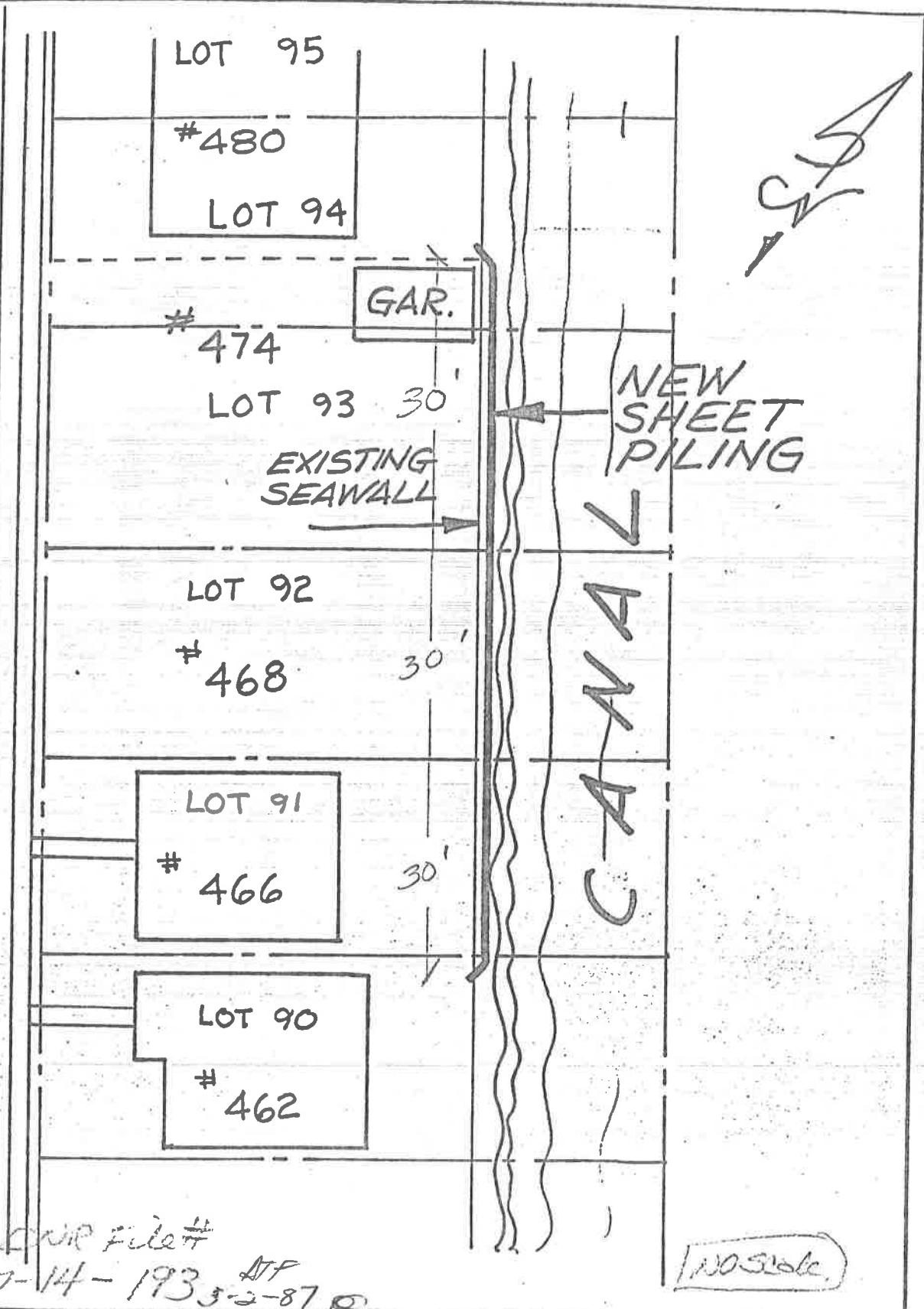
By Barry J. Honey  
Director, Department of Natural Resources

City of Detroit  
Page 2

#87-14-193 ATF

This permit is granted conditionally under circumstances of emergency or urgency as listed to protect property or general public welfare.. Should this permit result in an unreasonable encroachment, interference with adjacent riparians or the public trust, permittee agrees, in exercising the authority granted herein, to make adjustments in the project as may be ordered by the Department of Natural Resources.

ASHLAND



DR File #  
ATF 87-14-1933-2-87

NO Scale

B					
A					
DESCRIPTION		Drwn	Chkd	Appd	Date
REVISIONS					
DRAWN BY	APPROVED				
TRACED BY	APPROVED				
CHECKED	APPROVED				

SEAWALL REPAIR  
#466, 468 AND 474  
ASHLAND

CITY OF DETROIT  
EPMD  
City Engineering  
Division

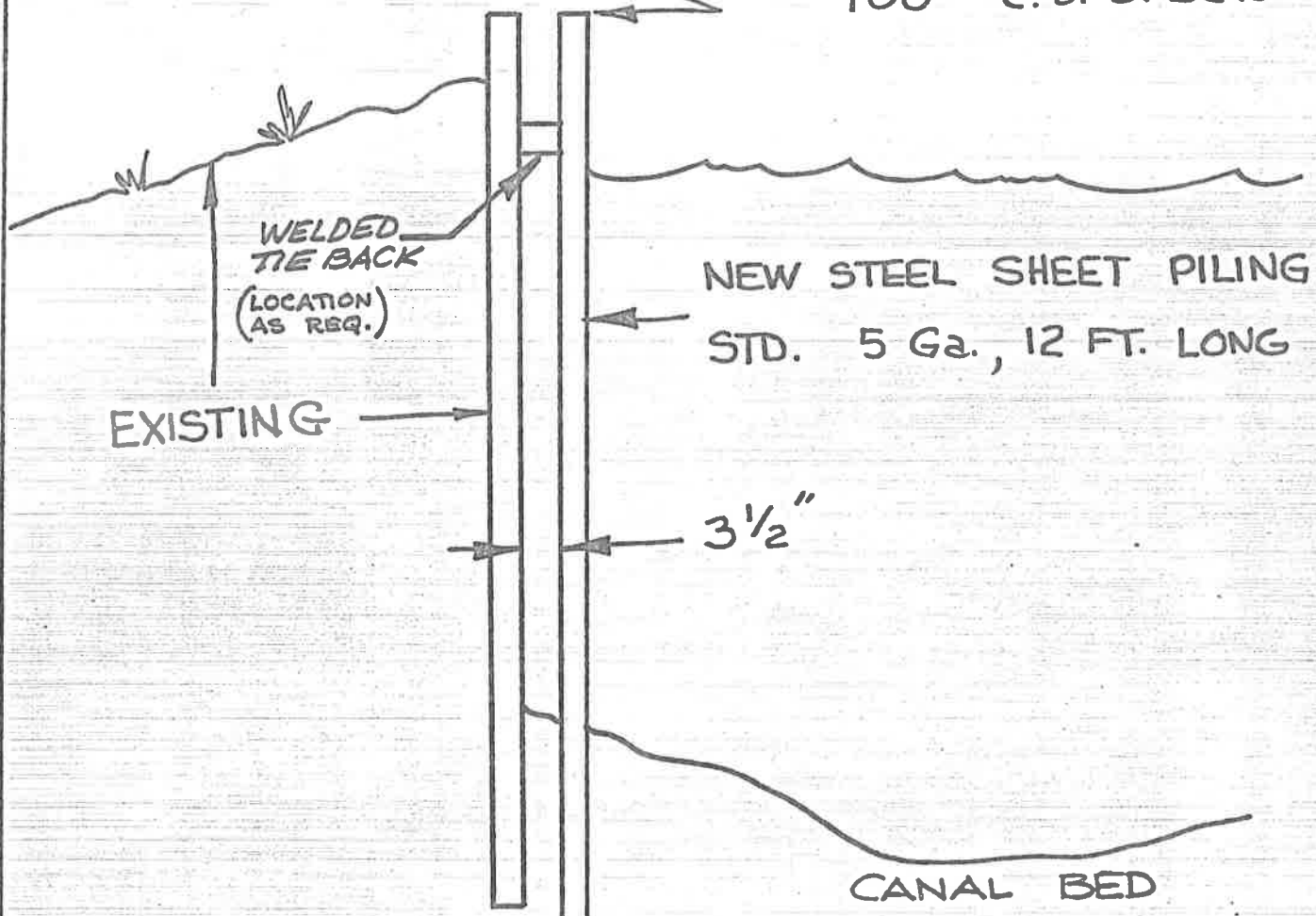
Job No.

Drwg. No.

2 87

11' gap  
to be  
between  
exist. and  
proposed!

ELEV. 580' N.G.V.D.  
100 C. of D. Datum



WELDED  
TIE BACK  
(LOCATION  
AS REQ.)

EXISTING

NEW STEEL SHEET PILING  
STD. 5 Ga., 12 FT. LONG

3 1/2"

CANAL BED

NO SCALE

ATF  
DWP File # 87-14-193 ATF  
3-2-87

B				
A				
DESCRIPTION	Drwn	Chkd	Appd	Date
REVISIONS				
DRAWN BY A.J.T.	APPROVED			
TRACED BY	APPROVED			
CHECKED	APPROVED			
	CITY ENGINEER			

TYPICAL  
CROSS SECTION  
FOX CREEK CANAL  
SEAWALL REPAIRS

CITY OF DETROIT  
Dept. of Public Works  
City Engineers Office

Job No.

Drwg. No.

Date FEB 87

STATE OF MICHIGAN  
 DEPARTMENT OF NATURAL RESOURCES  
 DIVISION OF LAND RESOURCE PROGRAMS

PERMIT FOR  
 MINOR PROJECT ACTIVITIES

ATF

Permit No. 87-14-196  
 Date Issued March 5, 1987  
 Extended \_\_\_\_\_  
 Revised \_\_\_\_\_  
 Expires Dec 31, 1988

This permit is granted under provisions of:

- The Inland Lakes and Streams Act, 1972 P.A. 346, as amended.
- The Great Lakes Submerged Lands Act, 1955 P.A. 247, as amended.
- Flood Plain Regulatory Act, 1929 P.A. 245, as amended.
- The Goemaere-Anderson Wetland Protection Act, 1979 P.A. 203.

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City of Detroit  
900 Cadillac Tower  
65 Cadillac Sq.  
Detroit, Mi. 48226.

OTHER: (Specify other authority under which permit is issued.)

Permitted Activity

Construct approximately 35 lineal feet of steel bulkhead a maximum of 6 inches waterward of existent structure. All work shall be in accordance with the attached plans dated 3-2-87.

Water Course Affected	County	Town	Range	Sect.	Sub. and Lot Number
<u>Fox Creek Canal</u>	<u>Wayne</u>	<u>25</u>	<u>13E</u>		<u>Lighthouse Sub'n #17518</u>

ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS ATTACHED HERETO. Authority granted by this permit is subject to the limitations and conditions marked with an (x) or (✓) below and to the limitations and conditions appearing on the reverse side of this permit.

- Unless authorized by attached plan, seawall, bulkhead or revetment structure shall not extend waterward of existing or ordinary water's edge or alignment of adjacent seawalls. Structure shall be in place prior to placement of backfill materials.
- No fill or dredge material shall be placed in a wetland or in such a manner as to impede surface water flow unless authorized by the attached plan.
- Fill shall consist of clean, inert materials which will not cause siltation nor contain soluble chemicals or organic matter which is biodegradable. All fill shall be contained in such a manner as not to erode into any watercourse or wetland. All raw banks shall be stabilized with sod, seed, fertilizer and mulch or riprapped as necessary to prevent erosion.
- All dredge spoils and excavated materials, including organic and inorganic soils, vegetation and debris shall be placed above the ordinary high water mark, leveled and stabilized with sod and/or seed, fertilizer and mulched, in such a manner as not to erode into any waterbody or wetland.
- All sand shall be clean beach sand.

Sand shall not exceed \_\_\_\_\_ inches in depth.

The location of the existing shoreline contour shall not be altered.

Sand shall not extend below the four foot underwater contour line.

- To conform with 1929 P.A. 245, as amended, neither spoils nor dikes are authorized to be placed between the pond, lagoon, basin, or artificial waterway and the existing stream channel.

No connection of the pond, lagoon, basin, or artificial waterway to the stream is authorized.

- Other no dredging or filling is authorized by this permit
- all shore protection structures must be located within 6" of existent structure.
- All construction operations relating to or part of this project shall be contained to the right of any limits of the City of Detroit or aquired easements.

- DLRP, Lansing
- DLRP, Region/District
- Public Health
- Act 347 CEA
- USCE & USFWS
- contractor
- \_\_\_\_\_
- Water Mngt. Div.
- District Law

Director, Department of Natural Resources

By Barry J. Horney

City of Detroit

Page 2

#87-14-196 ATF

This permit is granted conditionally under circumstances of emergency or urgency as listed to protect property or general public welfare: Should this permit result in an unreasonable encroachment, interference with adjacent riparians or the public trust, permittee agrees, in exercising the authority granted herein, to make adjustments in the project as may be ordered by the Department of Natural Resources.



CANAL

NEW SHEET PILING

GAR

BOAT HOUSE

85'

EXISTING SEAWALL

LOT 17

LOT 16

LOT 18

LOT 19

# 14705

# 14715

# 14725

KLENK AVE.



ATF

DNR File # 87-141-196

ATF 3-2-87

NO SCALE

B					
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DESCRIPTION	Drwn	Chkd	Appd	Date	
REVISIONS					
DRAWN BY A.J.T.	APPROVED				
TRACED BY	APPROVED				
CHECKED	APPROVED				
CITY ENGINEER					

SEAWALL REPAIR

# 14715

KLENK

CITY OF DETROIT  
Dept. of Public Works  
City Engineers Office

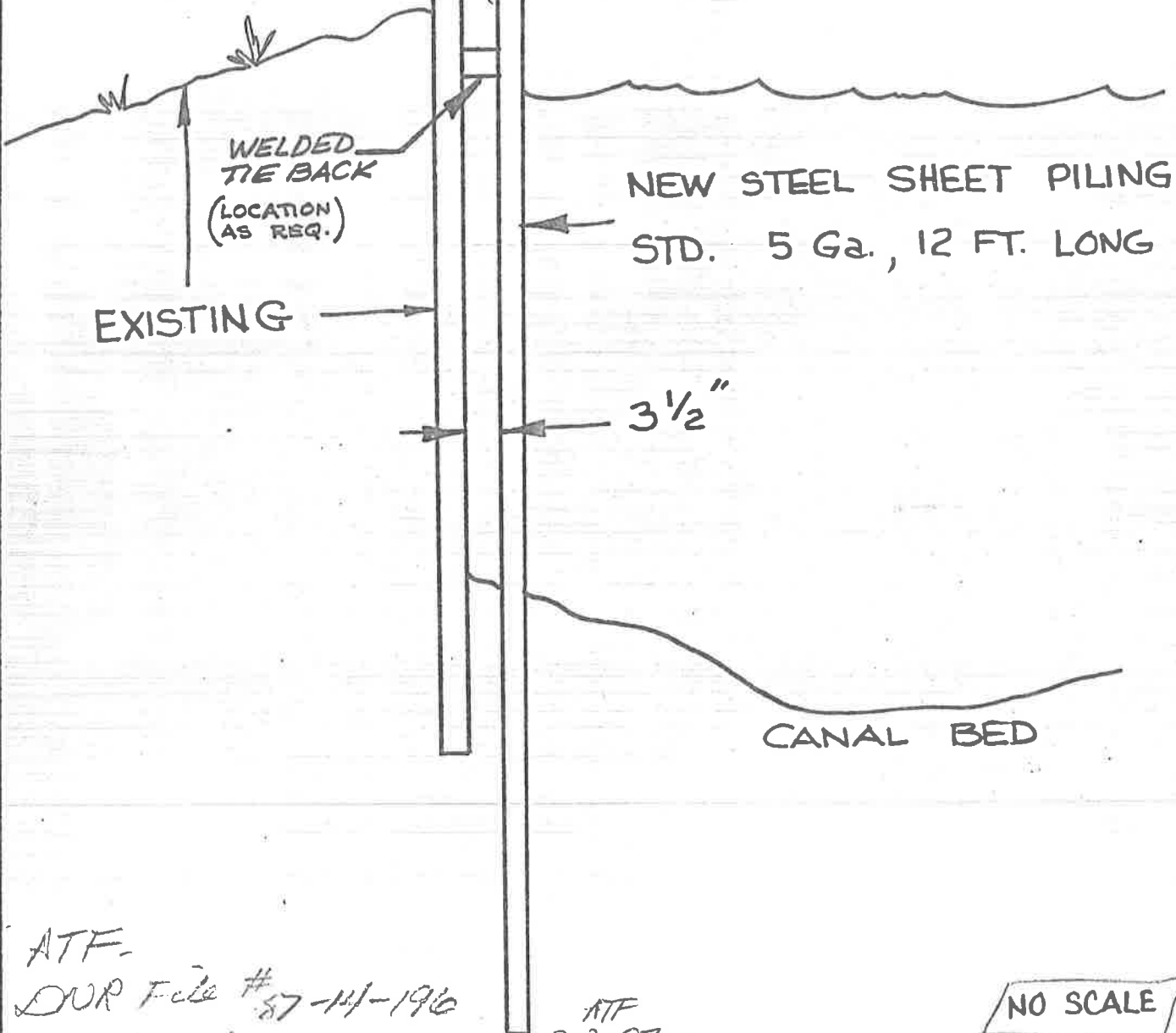
Job No.

Drwg. No.

Date 2-87

1" max gap between exist and proposed

ELEV. 580' N.G.V.D.  
100 C. of D. Datum



ATF.  
DWR File # 87-11-1916

ATF  
3-2-87cc

NO SCALE

B					
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DESCRIPTION	Drwn	Chkd	Appd	Date	
REVISIONS					
DRAWN BY A.J.T.	APPROVED				
TRACED BY	APPROVED				
CHECKED	APPROVED				
CITY ENGINEER					

TYPICAL  
CROSS SECTION  
FOX CREEK CANAL  
SEAWALL REPAIRS

CITY OF DETROIT  
Dept. of Public Works  
City Engineers Office

Job No.

Drwg. No.

Date FEB 87

STATE OF MICHIGAN  
 DEPARTMENT OF NATURAL RESOURCES  
 DIVISION OF LAND RESOURCE PROGRAMS

PERMIT FOR  
 MINOR PROJECT ACTIVITIES

ATF

Permit No. 87-14-194  
 Date Issued March 5, 1987  
 Extended \_\_\_\_\_  
 Revised \_\_\_\_\_  
 Expires Dec 31, 1988

This permit is granted under provisions of:

- The Inland Lakes and Streams Act, 1972 P.A. 346, as amended.
- The Great Lakes Submerged Lands Act, 1955 P.A. 247, as amended.
- Flood Plain Regulatory Act, 1929 P.A. 245, as amended.
- The Goemaere-Anderson Wetland Protection Act, 1979 P.A. 203.

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City of Detroit  
 900 Cadillac Tower  
 65 Cadillac Sq.  
 Detroit, Mi. 48226

OTHER: (Specify other authority under which permit is issued.)

Permitted Activity

Construct approximately 20 lined feet of steel bulkhead a maximum of 6 inches waterward of existent structure. All work shall be in accordance with the attached plans dated 3-2-87.

Water Course Affected	County	Town	Range	Sect.	Sub. and Lot Number
Fox Creek Canal	Wayne	25	BE		Fox Creek Sub'n # 439, 440

ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS ATTACHED HERETO. Authority granted by this permit is subject to the limitations and conditions marked with an (x) or (✓) below and to the limitations and conditions appearing on the reverse side of this permit.

- Unless authorized by attached plan, seawall, bulkhead or revetment structure shall not extend waterward of existing or ordinary water's edge or alignment of adjacent seawalls. Structure shall be in place prior to placement of backfill materials.
- No fill or dredge material shall be placed in a wetland or in such a manner as to impede surface water flow unless authorized by the attached plan.
- Fill shall consist of clean, inert materials which will not cause siltation nor contain soluble chemicals or organic matter which is biodegradable. All fill shall be contained in such a manner as not to erode into any watercourse or wetland. All raw banks shall be stabilized with sod, seed, fertilizer and mulch or riprapped as necessary to prevent erosion.
- All dredge spoils and excavated materials, including organic and inorganic soils, vegetation and debris shall be placed above the ordinary high water mark, leveled and stabilized with sod and/or seed, fertilizer and mulched, in such a manner as not to erode into any waterbody or wetland.
- All sand shall be clean beach sand.

Sand shall not exceed \_\_\_\_\_ inches in depth.

The location of the existing shoreline contour shall not be altered.

Sand shall not extend below the four foot underwater contour line.

- To conform with 1929 P.A. 245, as amended, neither spoils nor dikes are authorized to be placed between the pond, lagoon, basin, or artificial waterway and the existing stream channel.

No connection of the pond, lagoon, basin, or artificial waterway to the stream is authorized.

- Other No dredging or filling is authorized by this permit.
- All shore protection structures must be located within 6" of existent structure
- All construction operations relating to a part of this project shall be confined to the right-of-way limits of the City of Detroit or acquired easements.

- DLRP, Lansing
- DLRP, Region/District
- Public Health
- Act 347 CEA
- USCE & USFWS
- Contractor
- \_\_\_\_\_
- Water Mngt. Div.
- District Law

Director, Department of Natural Resources  
 By Barry J. Horney

City of Detroit

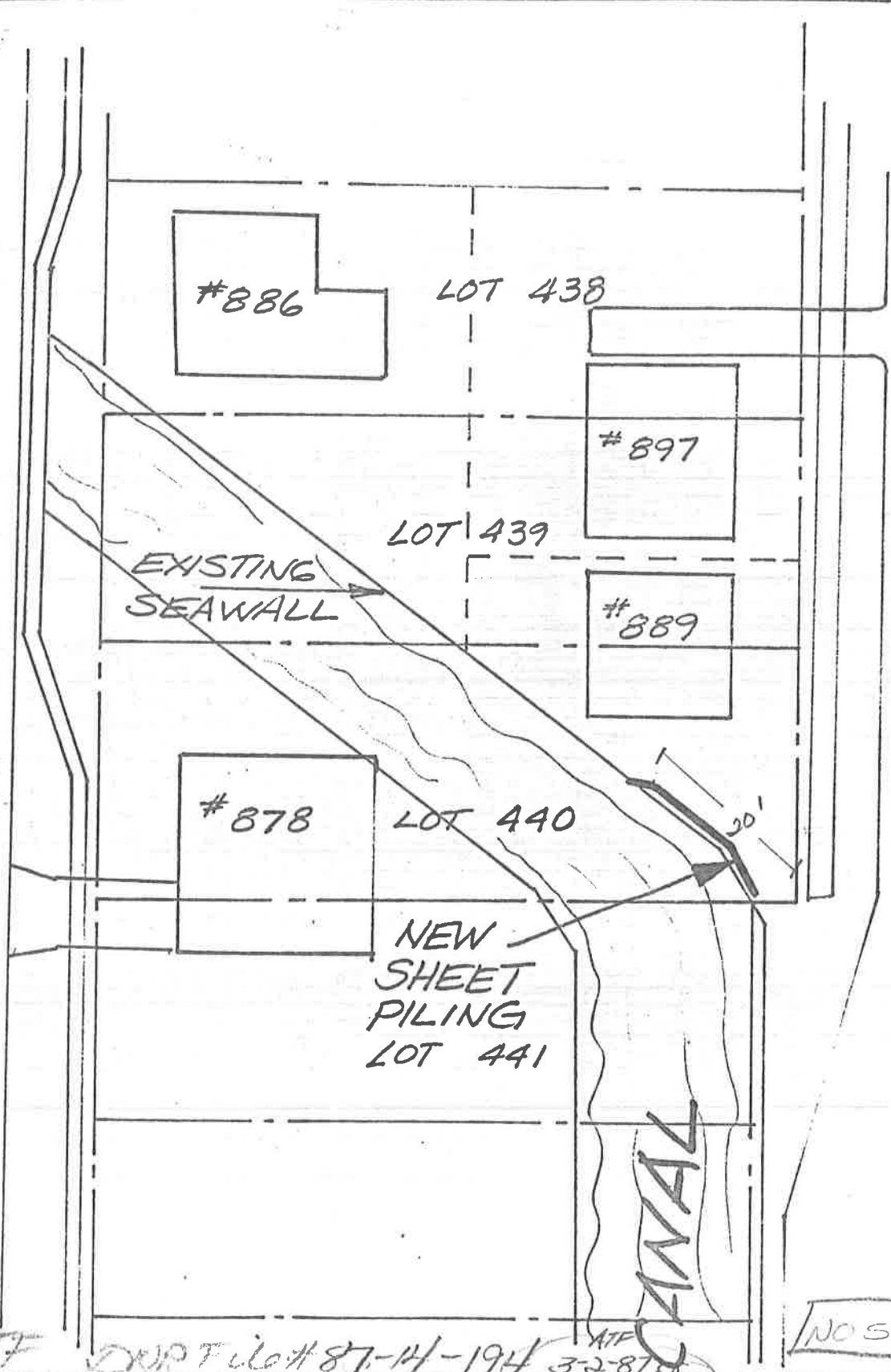
Page 2

#87-14-194 ATF

This permit is granted conditionally under circumstances of emergency or urgency as listed to protect property or general public welfare. Should this permit result in an unreasonable encroachment, interference with adjacent riparians or the public trust, permittee agrees, in exercising the authority granted herein, to make adjustments in the project as may be ordered by the Department of Natural Resources.

ASHLAND AVE.

ALTER RD.



ATF DWP T Lot # 87-14-194 3-2-87

NO SCALE

B					
A					
DESCRIPTION	Drwn	Chkd	Appd	Date	
REVISIONS					
DRAWN BY	APPROVED				
A.J.T.					
TRACED BY	APPROVED				
CHECKED	APPROVED				

SEAWALL REPAIR

# 889 ALTER

CITY OF DETROIT  
 EPMD  
 City Engineering  
 Division

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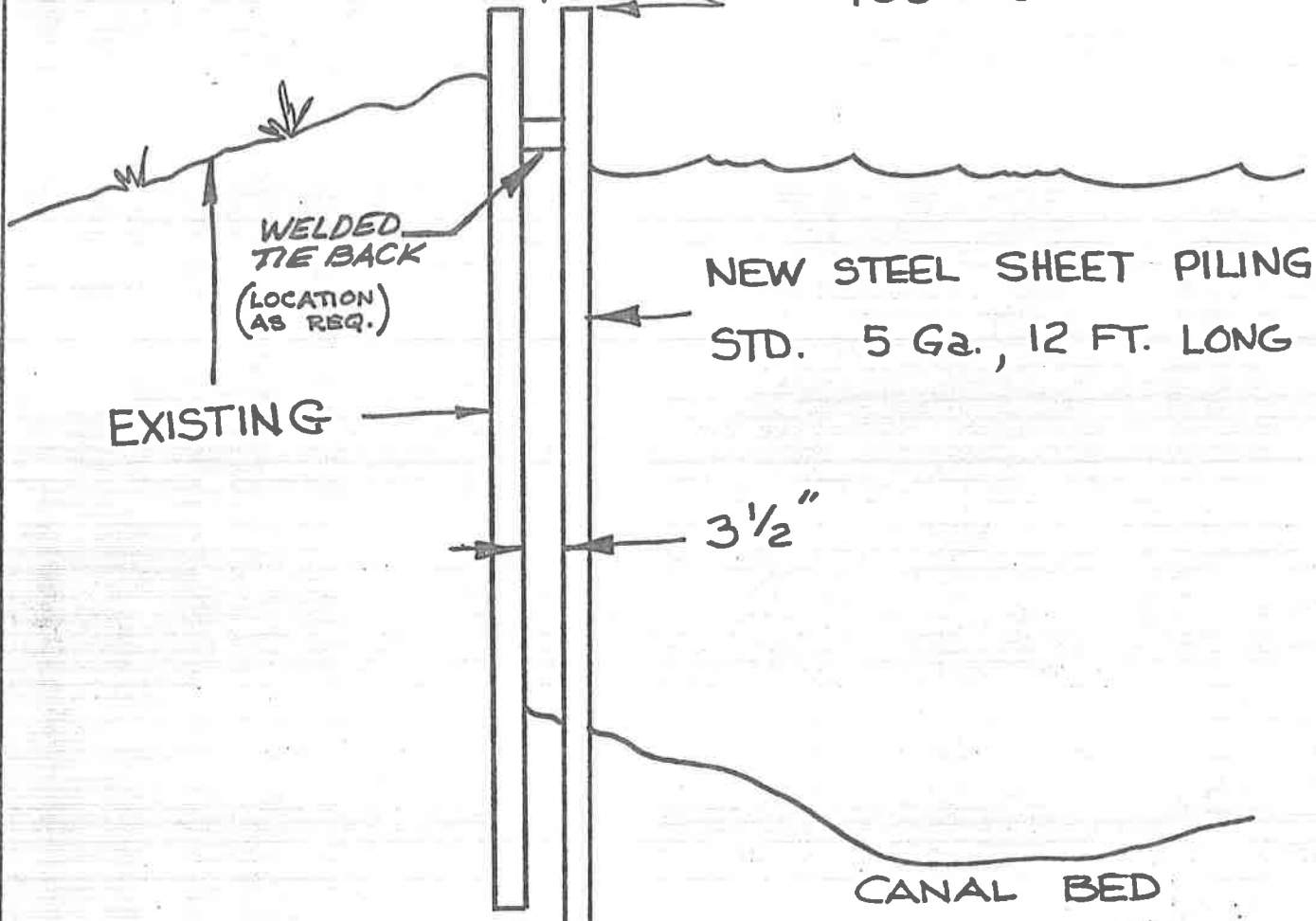
Job No.

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Drwg. No.

Max 6" gap between exist and proposed

ELEV. 580' N.G.V.D.  
100 C. of D. Datum



WELDED TIE BACK  
(LOCATION AS REQ.)

EXISTING

NEW STEEL SHEET PILING  
STD. 5 Ga., 12 FT. LONG

3 1/2"

CANAL BED

NO SCALE

ATF DNR File #87-44-194 ATF 3-2-87

B					
A					
DESCRIPTION	Drwn	Chkd	Appd	Date	
REVISIONS					
DRAWN BY A.J.T.	APPROVED				
TRACED BY	APPROVED				
CHECKED	APPROVED				
CITY ENGINEER					

TYPICAL  
CROSS SECTION  
FOX CREEK CANAL  
SEAWALL REPAIRS

CITY OF DETROIT  
Dept. of Public Works  
City Engineers Office

Job No.

Drwg. No.

Date FEB 87

STATE OF MICHIGAN  
 DEPARTMENT OF NATURAL RESOURCES  
 DIVISION OF LAND RESOURCE PROGRAMS

PERMIT FOR  
 MINOR PROJECT ACTIVITIES

ATF

Permit No. 87-14-192  
 Date Issued March 5, 1987  
 Extended \_\_\_\_\_  
 Revised \_\_\_\_\_  
 Expires Dec 31, 1988

This permit is granted under provisions of:

- The Inland Lakes and Streams Act, 1972 P.A. 346, as amended.
- The Great Lakes Submerged Lands Act, 1955 P.A. 247, as amended.
- Flood Plain Regulatory Act, 1929 P.A. 245, as amended.
- The Goemaere-Anderson Wetland Protection Act, 1979 P.A. 203.

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City of Detroit  
900 Cadillac Tower  
65 Cadillac Sq. 48226  
Detroit, Mi.

OTHER: (Specify other authority under which permit is issued.)

Permitted Activity

Construct approximately 65 lined feet of steel bulkhead a maximum of 6 inches waterward of existent structure. All work shall be in accordance with the attached plans dated 3-2-87.

Water Course Affected	County	Town	Range	Sect.	Sub. and Lot Number
<u>Fox Creek Canal</u>	<u>Wayne</u>	<u>25</u>	<u>13E</u>		<u>Lighthouse Sub'n #11</u>

ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS ATTACHED HERETO. Authority granted by this permit is subject to the limitations and conditions marked with an (x) or (✓) below and to the limitations and conditions appearing on the reverse side of this permit.

- Unless authorized by attached plan, seawall, bulkhead, or revetment structure shall not extend waterward of existing water's edge or the ordinary water's edge, whichever is most landward. Structure shall be in place prior to placement of backfill materials.
- No fill or dredge material shall be placed in a wetland or in such a manner as to impede surface water flow unless authorized by the attached plan.
- Fill or backfill shall consist of clean, inert materials which will not cause siltation nor contain soluble chemicals or organic matter which is biodegradable. All fill shall be contained in such a manner as not to erode into any watercourse or wetland. All raw banks shall be stabilized with sod, seed, fertilizer and mulch or riprapped as necessary to prevent erosion.
- All dredge spoils and excavated materials, including organic and inorganic soils, vegetation and debris shall be placed above the ordinary high water mark, leveled and stabilized with sod and/or seed, fertilizer and mulched, in such a manner as not to erode into any waterbody or wetland.
- All beach fill shall be clean sand or washed pea gravel. Beach fill shall not exceed six inches in depth. The location of the existing shoreline contour shall not be altered. Beach fill shall not extend below the four foot underwater contour.
- To conform with 1929 P.A. 245, as amended, neither spoils nor dikes are authorized to be placed between the pond, lagoon, basin, or artificial waterway and the existing stream channel. No connection of the pond, lagoon, basin, or artificial waterway to the stream is authorized.
- Dredging is not authorized by this permit.
- Filling is not authorized by this permit.
- All shore protection structures must be located within 6'' of existent structure feet of the toe of the bluff.

Other All construction operations relating to or part of this project shall be confined to the right of way limits of this City of Detroit or aquired easements.

- DLRP, Lansing
- DLRP, Region/District
- Public Health
- Act 347 CEA
- USCE & USEWS
- contractor
- \_\_\_\_\_
- Water Mngt. Div.
- District Law

Director, Department of Natural Resources

By Barry J. Horney  
 DIVISION OF LAND RESOURCE PROGRAMS

City of Detroit  
#87-14-192 ATF

Page 2

ISSUED: March 5, 1987

EXPIRES: December 31, 1988

This permit is granted conditionally under circumstances of emergency or urgency as listed to protect property or general public welfare. . Should this permit result in an unreasonable encroachment, interference with adjacent riparians or the public trust, permittee agrees, in exercising the authority granted herein, to make adjustments in the project as may be ordered by the Department of Natural Resources.



CANAL

#14677  
LOT 12

GAR.

#14671  
LOT 11

35

EXISTING  
SEAWALL

#14653  
LOT 10

LOT 9

KLENK AVE.

NEW SHEET  
PILING

ATF DWR File # 87-14-192 ATF 3-2-87 NO SCALE

B					
A					
DESCRIPTION	Drwn	Chkd	Appd	Date	
REVISIONS					
DRAWN BY	APPROVED				
A.J.T.					
TRACED BY	APPROVED				
CHECKED	APPROVED				
CITY ENGINEER					

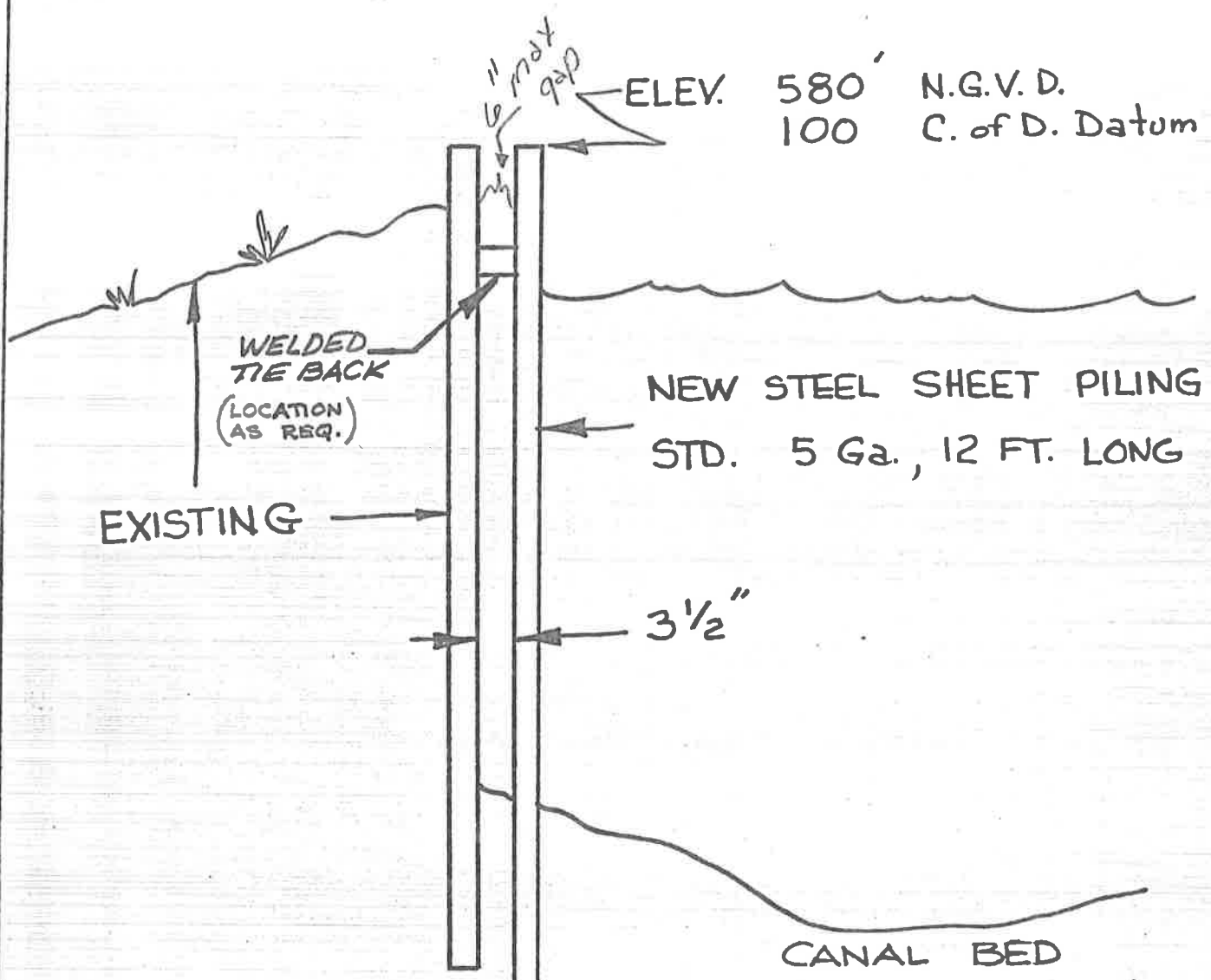
SEAWALL REPAIR  
#14671 KLENK

CITY OF DETROIT  
Dept. of Public Works  
City Engineers Office

Job No.

Drwg. No.

Date 2-87



ELEV. 580' N.G.V.D.  
100 C. of D. Datum

WELDED TIE BACK  
(LOCATION AS REQ.)

NEW STEEL SHEET PILING  
STD. 5 Ga., 12 FT. LONG

EXISTING

3 1/2"

CANAL BED

ATF DWR File # 87-14-192 ATF 32-87 @

NO SCALE

B				
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DESCRIPTION	Drwn	Chkd	Appd	Date
REVISIONS				
DRAWN BY A.J.T.	APPROVED			
TRACED BY	APPROVED			
CHECKED	APPROVED			
CITY ENGINEER				

TYPICAL  
CROSS SECTION  
FOX CREEK CANAL  
SEAWALL REPAIRS

CITY OF DETROIT  
Dept. of Public Works  
City Engineers Office

Job No.

Drwg. No.

Date FEB 87

# Certificate of Insurance

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER.  
THIS CERTIFICATE DOES NOT AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES LISTED BELOW.

<b>CORROON &amp; BLACK OF MICHIGAN, INC.</b> P.O. BOX 2727, 15415 MIDDLEBELT LIVONIA, MICHIGAN 48151 (313) 261-0970	<b>COMPANIES AFFORDING COVERAGES</b> COMPANY LETTER <b>A</b> MICHIGAN MUTUAL INS. CO. COMPANY LETTER <b>B</b> CONSTRUCTION ASSOC. OF MICHIGAN COMPANY LETTER <b>C</b> COMPANY LETTER <b>D</b> COMPANY LETTER <b>E</b>
NAME AND ADDRESS OF INSURED <b>O'LAUGHLIN CONSTRUCTION CO.</b> P. O. Box 466 Novi, Michigan 48050	

This is to certify that policies of insurance listed below have been issued to the insured named above and are in force at this time.

COMPANY LETTER	TYPE OF INSURANCE	POLICY NUMBER	POLICY EXPIRATION DATE	Limits of Liability in Thousands (000)		
					EACH OCCURRENCE	AGGREGATE
A	<b>GENERAL LIABILITY</b> <input checked="" type="checkbox"/> COMPREHENSIVE FORM <input checked="" type="checkbox"/> PREMISES—OPERATIONS <input checked="" type="checkbox"/> EXPLOSION AND COLLAPSE HAZARD <input checked="" type="checkbox"/> UNDERGROUND HAZARD <input checked="" type="checkbox"/> PRODUCTS/COMPLETED OPERATIONS HAZARD <input checked="" type="checkbox"/> CONTRACTUAL INSURANCE <input checked="" type="checkbox"/> BROAD FORM PROPERTY DAMAGE <input checked="" type="checkbox"/> INDEPENDENT CONTRACTORS <input checked="" type="checkbox"/> PERSONAL INJURY	1B906-2 	03/01/87	BODILY INJURY	\$	\$ *
				PROPERTY DAMAGE	\$	\$
				BODILY INJURY AND PROPERTY DAMAGE COMBINED	\$2,000	\$2,000
				*Applies to Products/Completed Operations Hazard.		
A	<b>AUTOMOBILE LIABILITY</b> <input checked="" type="checkbox"/> COMPREHENSIVE FORM <input checked="" type="checkbox"/> OWNED <input checked="" type="checkbox"/> HIRED <input checked="" type="checkbox"/> NON-OWNED	1B906-3 	03/01/87	BODILY INJURY (EACH PERSON)	\$	
				BODILY INJURY (EACH OCCURRENCE)	\$	
				PROPERTY DAMAGE	\$	
				BODILY INJURY AND PROPERTY DAMAGE COMBINED	\$ 2,000	
A	<b>EXCESS LIABILITY</b> <input checked="" type="checkbox"/> UMBRELLA FORM <input type="checkbox"/> OTHER THAN UMBRELLA FORM	1B9069	03/01/87	BODILY INJURY AND PROPERTY DAMAGE COMBINED	\$ 1,000	\$ 1,000
				STATUTORY		
B	<b>WORKERS' COMPENSATION and EMPLOYERS' LIABILITY</b>	C-17448Q-R3	01/01/88			
	<b>OTHER</b>				\$100	(EACH ACCIDENT)

DESCRIPTION OF OPERATIONS/LOCATIONS/VEHICLES

Job: Service to Control & Abate Possible Flooding Resulting from High Level of Water in the Detroit, River Cobtract #63749  
Certificate holder is also additional insured.

**Cancellation:** Should any of the above described policies be cancelled before the expiration date thereof, the issuing company will endeavor to mail ~~30~~ days written notice to the below named certificate holder, but failure to mail such notice shall impose no obligation or liability of any kind upon the company.

NAME AND ADDRESS OF CERTIFICATE HOLDER:

City of Detroit  
9th Floor Cadillac Towers  
Detroit, Mi 48226

DATE ISSUED: 2-2-87  
**CORROON & BLACK OF MICHIGAN, INC.**  
  
 AUTHORIZED REPRESENTATIVE  
 Steven K. Brandon

# Certificate of Insurance

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER.  
THIS CERTIFICATE DOES NOT AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES LISTED BELOW.

<b>CORROON &amp; BLACK OF MICHIGAN, INC.</b> P.O. BOX 2727, 15415 MIDDLEBELT LIVONIA, MICHIGAN 48151 (313) 261-0970	<b>COMPANIES AFFORDING COVERAGES</b> COMPANY LETTER <b>A</b> MICHIGAN MUTUAL INS. CO. COMPANY LETTER <b>B</b> CONSTRUCTION ASSOC. OF MICHIGAN COMPANY LETTER <b>C</b> COMPANY LETTER <b>D</b> COMPANY LETTER <b>E</b>
NAME AND ADDRESS OF INSURED <b>O'LAUGHLIN CONSTRUCTION CO.</b> P. O. Box 466 Novi, Michigan 48050	

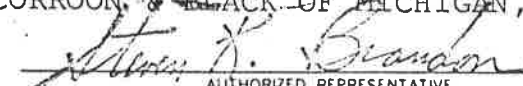
This is to certify that policies of insurance listed below have been issued to the insured named above and are in force at this time.

COMPANY LETTER	TYPE OF INSURANCE	POLICY NUMBER	POLICY EXPIRATION DATE	Limits of Liability in Thousands (000)				
					EACH OCCURRENCE	AGGREGATE		
A	<b>GENERAL LIABILITY</b> <input checked="" type="checkbox"/> COMPREHENSIVE FORM <input checked="" type="checkbox"/> PREMISES—OPERATIONS <input checked="" type="checkbox"/> EXPLOSION AND COLLAPSE HAZARD <input checked="" type="checkbox"/> UNDERGROUND HAZARD <input checked="" type="checkbox"/> PRODUCTS/COMPLETED OPERATIONS HAZARD <input checked="" type="checkbox"/> CONTRACTUAL INSURANCE <input checked="" type="checkbox"/> BROAD FORM PROPERTY DAMAGE <input checked="" type="checkbox"/> INDEPENDENT CONTRACTORS <input checked="" type="checkbox"/> PERSONAL INJURY	1B906-2	03/01/87	BODILY INJURY	\$	\$		
				PROPERTY DAMAGE	\$	\$		
				BODILY INJURY AND PROPERTY DAMAGE COMBINED	\$2,000	\$2,000		
				*Applies to Products/Completed Operations Hazard.			\$2,000	(PERSONAL INJURY)
A	<b>AUTOMOBILE LIABILITY</b> <input checked="" type="checkbox"/> COMPREHENSIVE FORM <input checked="" type="checkbox"/> OWNED <input checked="" type="checkbox"/> HIRED <input checked="" type="checkbox"/> NON-OWNED	1B906-3	03/01/87	BODILY INJURY (EACH PERSON)	\$			
				BODILY INJURY (EACH OCCURRENCE)	\$			
				PROPERTY DAMAGE	\$			
				BODILY INJURY AND PROPERTY DAMAGE COMBINED	\$ 2,000			
A	<b>EXCESS LIABILITY</b> <input checked="" type="checkbox"/> UMBRELLA FORM <input type="checkbox"/> OTHER THAN UMBRELLA FORM	1B9069	03/01/87	BODILY INJURY AND PROPERTY DAMAGE COMBINED	\$ 1,000	\$ 1,000		
B	<b>WORKERS' COMPENSATION and EMPLOYERS' LIABILITY</b>	C-17448Q-R3	01/01/88	STATUTORY	\$100	(EACH ACCIDENT)		
<b>OTHER</b>								

**DESCRIPTION OF OPERATIONS/LOCATIONS/VEHICLES**  
 Job: Service to Control & Abate Possible Flooding Resulting from High Level of Water in the Detroit, River Contract #63749  
 Certificate holder is also additional insured

**Cancellation:** Should any of the above described policies be cancelled before the expiration date thereof, the issuing company will endeavor to mail 30 days written notice to the below named certificate holder, but failure to mail such notice shall impose no obligation or liability of any kind upon the company.

NAME AND ADDRESS OF CERTIFICATE HOLDER:  
 City of Detroit  
 9th Floor Cadillac Towers  
 Detroit, MI 48226

DATE ISSUED: 1/30/87  
 CORROON, & BLACK OF MICHIGAN, INC.  
  
 AUTHORIZED REPRESENTATIVE  
 Steven K. Brandon



City Engineering Department  
Ninth Floor Cadillac Tower  
Detroit, Michigan 48226

July 15, 1986

Coleman A. Young, Mayor  
City of Detroit

O'Laughlin Construction Company  
24460 Novi Road  
P.O. Box 466  
Novi, Michigan 48050

Gentlemen:

RE: Amendment No. 2  
Letter of Intent to Enter into Agreement to Provide  
Services to Control and Abate Possible Flooding Resulting  
from High Level of Water in the Detroit River  
Detroit, Michigan (86-088)

This letter is issued to amend the Letter of Intent dated March 21, 1986 and Amendment No. 1 of Letter of Intent dated April 11, 1986 between the City of Detroit and O'Laughlin Construction Company for services to Control and Abate possible Flooding from High Level of water in the Detroit River. The Letter of Intent as amended by Amendment No. 1 established the total cost of the Contract not to exceed one hundred fifty thousand dollars (\$150,000.00).

The Contractor commenced work on Monday, March 24, 1986 and as of Monday, June 2, 1986 has expended an amount in the excess of \$205,320.00 which exceeds the \$150,000.00 contract amount. It is proposed to increase the contract amount by \$275,000.00 for a total contract amount of \$425,000.00.

Amend the Letter of Intent and Amendment No. 1 to Letter of Intent as follows:

AMENDMENT NO. 2

On page 3 of letter dated March 21, 1986 under identification of Project Cost delete entirely item 1 which reads—

1. The total cost of the contract to perform the work, as described above, shall not exceed fifty thousand dollars (\$50,000.00) which is payment in total for all labor, material and equipment.

On page 1 of Amendment No. 1 Letter of Intent dated April 11, 1986 delete entirely item 1 which reads—

1. The total cost of the contract to perform the work, as described above, shall not exceed one hundred fifty thousand dollars (\$150,000.00) which is payment in total for all labor, material and equipment.

Page Two  
O'Laughlin Construction Company  
Re: Amendment No. 2  
July 15, 1986

And substitute the following—

1. The total cost of the contract to perform the work, as described above, shall not exceed four hundred and twenty five thousand dollars (\$425,000.00) which is payment in total for all labor, materials and equipment.

That all other terms, conditions and covenants of the "Letter of Intent" dated March 21, 1986 remain in full force and effect as set forth therein.

Sincerely yours,



Clyde R. Hopkins  
Director

JVW:bo

Attachment

Amendment No. 2 - Letter of Intent - March 21, 1986  
Accepted for O'Laughlin Construction Company

By:



Title:



Date:



cc: E. Kennedy	W. Stecher (Budget)
R. Karber	J. Kanters (Finance)
✓ J. Crane	J. Messner (Budget)
J. Wickey	D. Pailen (Law)
C. Abrams (DPW)	O. Collins (Finance)
B. Marshall (Finance)	K. Johnson (Civil Defense)

UPDATE ON FLOOD CONTROL AREA - OCTOBER 16, 1986

- A. On October 16, 1986, the water level is at 98.0. The catch basins are taking all of the water that is leaking. We have 4 major leaks and 32 minor leaks.
  
- B. With elevation at 98.45 (two weeks ago), we had 16 major leaks and 36 minor leaks. The catch basins were not taking all of the water and there was standing water on Klenk Island, Manistique and Philip - curb to curb. We are requesting \$350,000 to install additional sheet piling, ~~at the above locations.~~ The contractor, O'Laughlin Construction, Inc., is willing to extend that emergency contract.
  
- C. The 98.45 elevation of two weeks ago was the highest we have had since 1950. During the 1973 flood, the elevation was 98.3. During the 1985 flood, the elevation was 98.4.
  
- D. City Engineering Department is recommending another meeting with homeowners or occupants of the flood area:
  - (1) Discuss their continuing maintenance of seawalls and sandbags, and
  - (2) Possibility of discussing our Feasibility Study

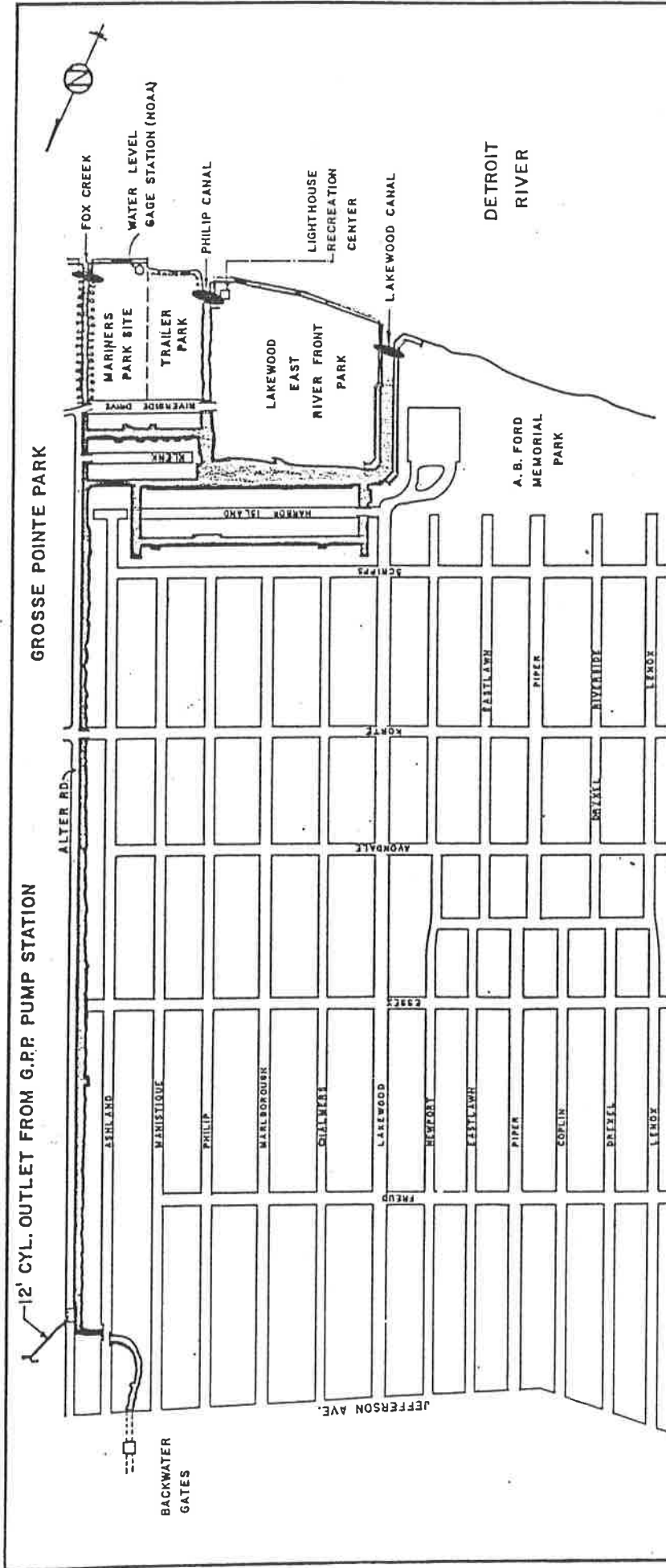
C. HOPKINS

FLOOD ABATEMENT  
CONTROL OF WATER IN CANALS  
ESTIMATE OF CONSTRUCTION COST

- Scheme #1 - Sheet Piling along all canal edges - 9.5 to 10.5 M
  
- Scheme #2 - New Sewer from Grosse Pointe Park Pumping Station & Detroit Overflow System to River plus control of water level in canals, by gates and locks plus small pumping to maintain water levels in canal - 13.5 to 14.5 M
  
- Scheme #3 - Major New Pumping Station at river edge plus control of water level in canals by gates and locks - 18.5 to 19.5 M

Cost of Engineering and Administration is in addition to these costs.  
The costs are based on Madison Madison International's Feasibility Study.

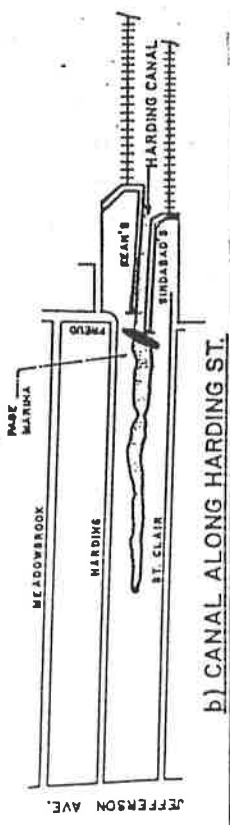




a) FOX CREEK & CONNECTED CANALS

LEGEND

- STEEL SHEETING
- ..... RIP-RAP
- LOCATION OF PROPOSED FLOOD CONTROL GATES



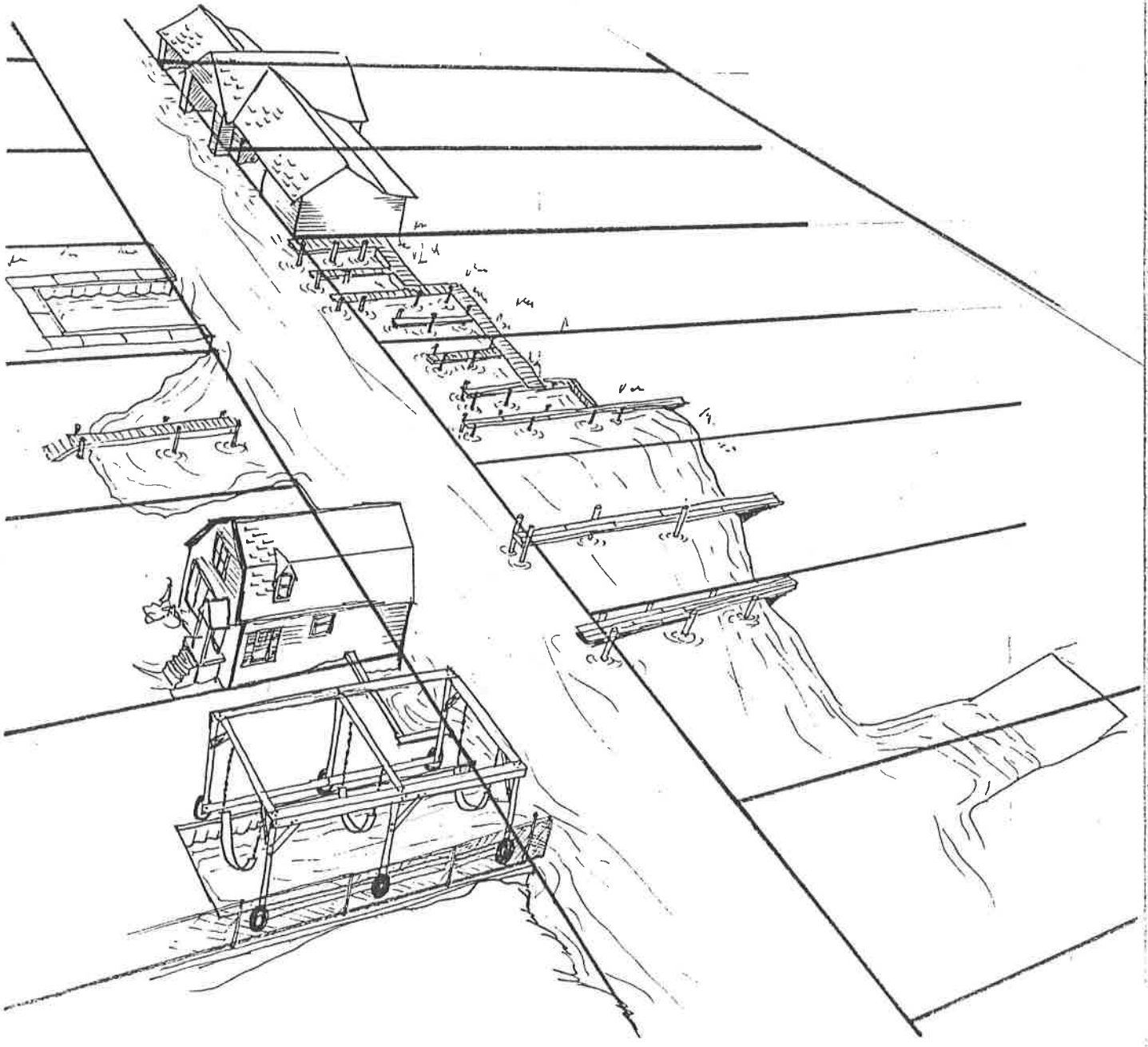
b) CANAL ALONG HARDING ST.

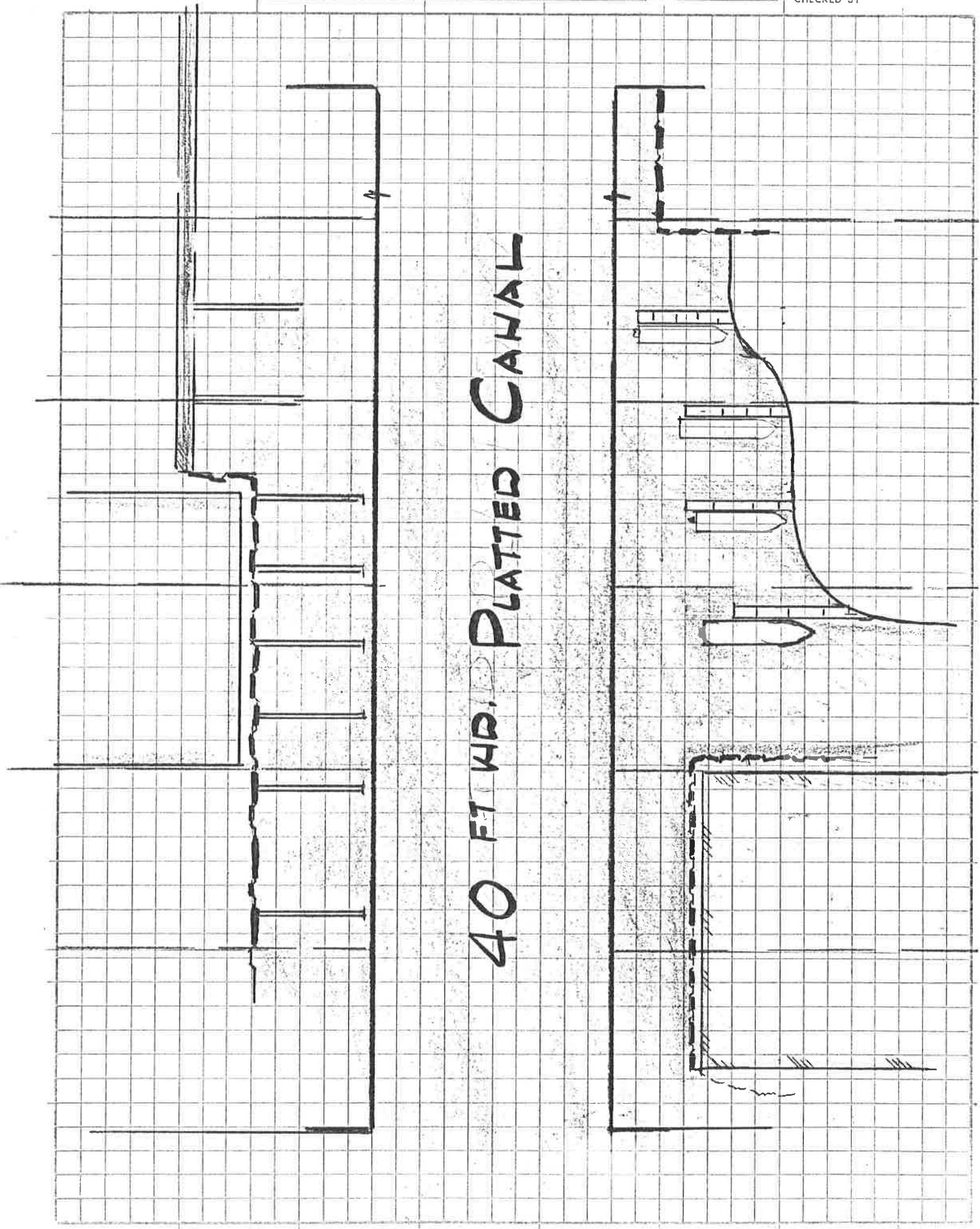
**CITY ENGINEERING DEPARTMENT, DETROIT**  
**MADISON MADISON INTERNATIONAL JOB NO. B538**  
 STUDY AREAS AND CANAL SYSTEM DETAILS FIG. 1

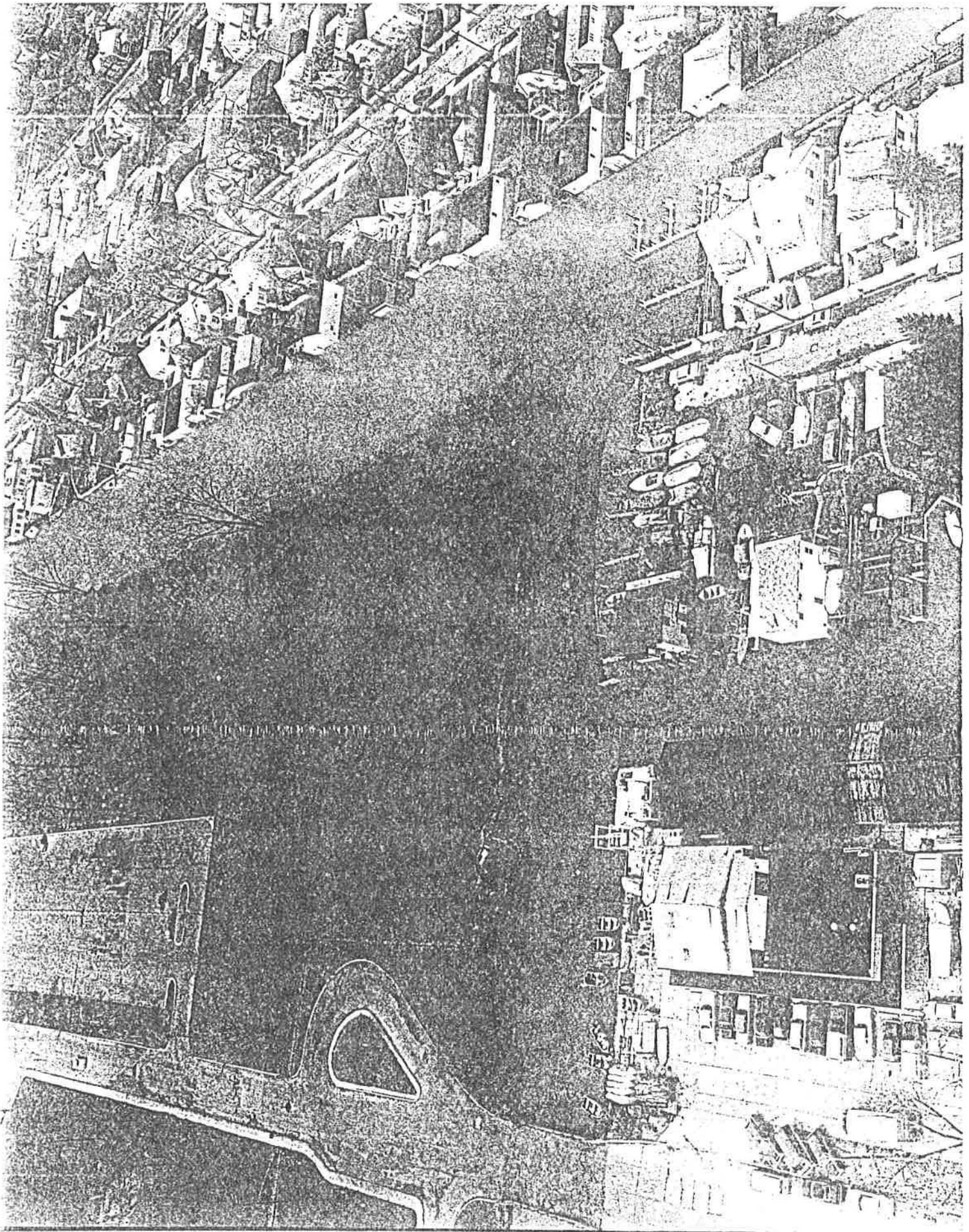
W

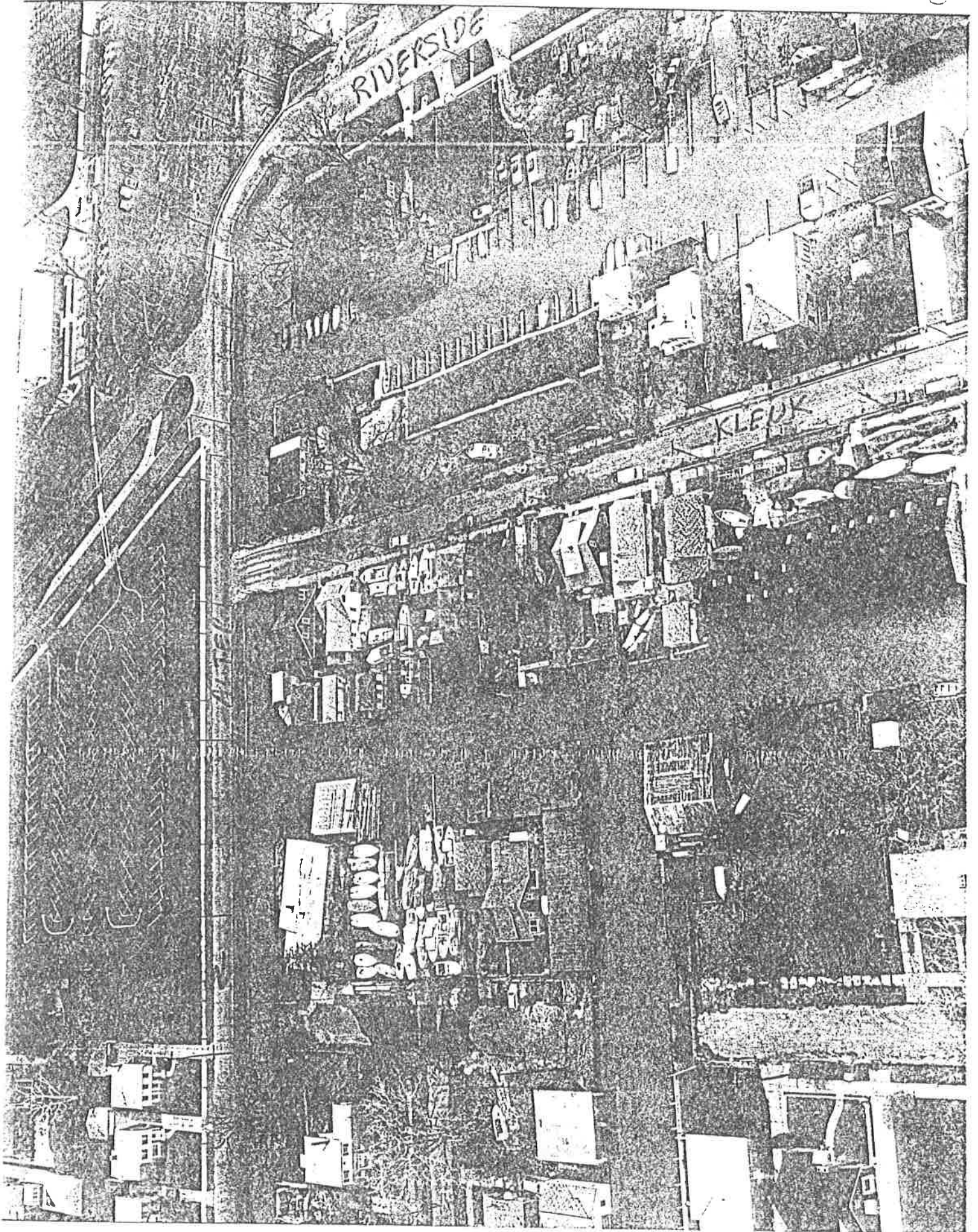
POSSIBLE LEGAL ISSUES

- A) Of the approximately 2.6 miles of the canal system, about 45% appears to be on platted public waterways. The remaining 55% appears to be on platted private property.
- B) The majority of Fox Creek (that portion north of Klenk) is on private property. However, the Wayne County Drain Commission must have an easement or some right to use the waterway as a sewer outfall relief.
- C) Does the public have the right to use the entire canal system or could an individual property owner literally cut off the canal or restrict usage?
- D) Does the City have the right to go on private property to install a continuous row of sheeting?
- E) Where there are obviously publicly dedicated navigable waters, should the sheeting line go right on the property line or go in and out (and onto private property) as individual conditions warrant?
- F) Does the City have the right to sheet across individual boat houses or commercial boat liveries and install tee sections at some regular interval? The property owner would then be forced to install additional sheeting to protect his property, at his expense, if he still wanted to maintain his boat house or other particular circumstances. This sheeting could tie into the City sheeting, at the tees, and would require plans and a City permit for construction. If we can do this on the public canals; can we also do it on the private canals?
- G) Payment - Who pays for the sheeting? Is there any assessment to individual property owners?

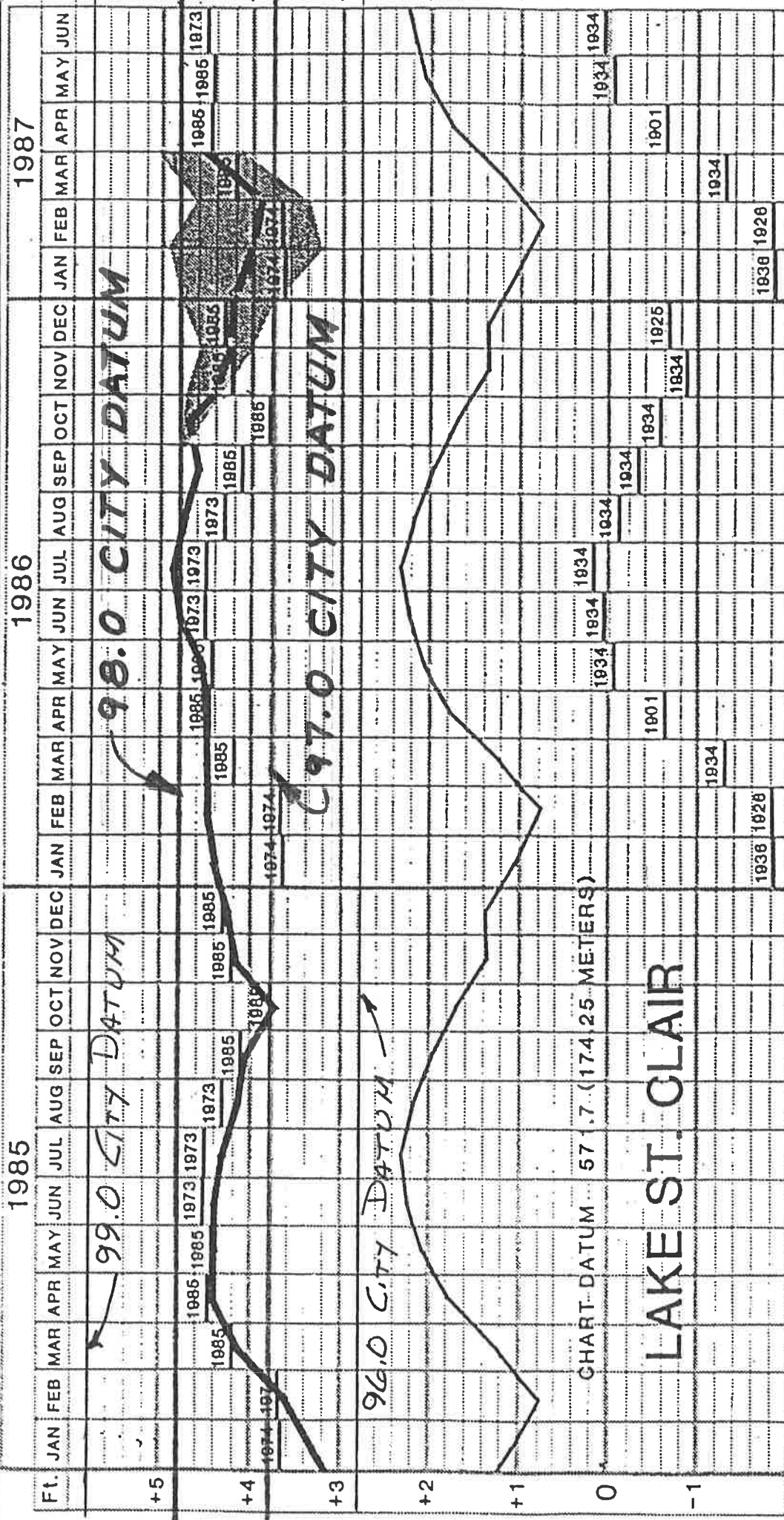








100.0 CITY DATUM



U.S. ARMY  
CORPS OF  
ENGINEERS

LAKE LEVELS  
FOR  
SEPTEMBER 1986

|

# City of Detroit

## INTER-OFFICE CORRESPONDENCE

TO: DICK ELLENA

DATE

FROM: WILLIE RANKIN

SUBJECT: FLOOD CONTROL PARTIAL BILLING  
O'LAUGHLIN CONSTRUCTION CO.

THE ATTACHED BILLING FROM O'LAUGHLIN CONSTRUCTION COMPANY, DATED FEBRUARY 5, 1987 HAS BEEN REVIEWED BY ME. PROCESSING OF PAYMENT TO O'LAUGHLIN CONSTRUCTION COMPANY IS RECOMMENDED.



*Willie Rankin*



City of Detroit  
INTER-OFFICE CORRESPONDENCE

TO: J. Wickey  
FROM: R. Ellena

DATE March 3, 1987

SUBJECT: Partial Billing  
Emergency Flood Control  
Contract No. 86-027

A partial billing has been received from O'Laughlin Construction Company for work performed from December 15, 1986 through January 30, 1987. This invoice has been checked and I therefore recommend the invoice be paid.



CONSTRUCTION COMPANY

24460 NOVI ROAD P. O. BOX 466 NOVI, MICHIGAN 48050

February 5, 1987

City of Detroit  
Engineering Department  
9th Floor, Cadillac Towers  
Detroit, Michigan 48226

Attention: Mr. Jim Crane

Subject: City of Detroit  
Professional Services Contract  
Control & Abate Flooding Conditions  
Partial Billing/Request for Payment

Gentlemen:

We hereby request payment in the amount of \$147,123.31 for work performed on the above subject project from December 15, 1986 through January 30, 1987.

The cost breakdown is as follows:

Labor	\$ 44,716.07
Equipment	28,793.57
Materials	37,647.15
Jobsite Direct Costs	<u>3,994.70</u>
	\$115,151.49
10% Overhead	<u>11,515.49</u>
	\$126,666.64
15% Profit	<u>19,000.00</u>
	\$145,666.64
1% Bond	<u>1,456.67</u>
	\$147,123.31

Details of cost and invoices are attached to assist for your review.

Please call if we can provide you any additional assistance.

Very truly yours,

O'LAUGHLIN CONSTRUCTION COMPANY

R. L. Bogerty  
Project Manager

RLB/kel  
enclosures

An Equal Opportunity Employer

*OK. for Payment  
R.W. Ellerman  
2-3-87*

**City of Detroit**  
INTER-OFFICE CORRESPONDENCE

TO: H. S. Powell

DATE Aug. 12, 1986

FROM: R. Ellena

SUBJECT: Partial Billing  
Letter of Intent  
Emergency Flood Control

*RE*

A partial billing has been received from O'Laughlin Construction Company for work performed on subject job from May 27, 1986 through August 1, 1986. This invoice has been checked and I therefore recommend the invoice be paid.

c.c. J. Crane  
J. Wickey



CONSTRUCTION COMPANY

24460 NOVI ROAD P. O. BOX 466 NOVI, MICHIGAN 48050

August 5, 1986

City of Detroit  
8221 West Davison  
Detroit, MI 48238

Attention: Mr. Jim Crane

Reference: Emergency Flood Control Work - Ashland/Scripps  
Partial Billing

Gentlemen:

We request payment in the amount of \$126,408.00 for the work performed on subject job from May 27, 1986 through August 1, 1986.

The cost breakdown is as follows:

Labor . . . . .	\$ 46,974.63
Materials . . . . .	19,814.71
Equipment . . . . .	29,048.54
Jobsite Direct Cost . . . . .	3,100.00
G.L. Insurance (included in wage rates) . . . . .	0.00
	<hr/>
	\$ 98,937.88
10% Overhead . . . . .	9,893.79
	<hr/>
	\$108,831.67
15% Profit . . . . .	16,324.75
	<hr/>
	\$125,156.42
1% Bond . . . . .	1,251.56
TOTAL:	<hr/>
	\$126,407.98

Details of costs are attached for your review.

If you have any questions, please do not hesitate to call.

Very truly yours,

O'LAUGHLIN CONSTRUCTION COMPANY

R. L. Bogerty  
Project Manger

RLB/ky

Enclosures

*O.K. for Payment  
R.W. Ellens  
8-12-86*

# City of Detroit

## INTER-OFFICE CORRESPONDENCE

TO: R. Ellena

DATE February 25, 1987

FROM: L. Convery *JSC*

SUBJECT: Fox Creek Flood Control Project

The following are the sites where emergency flood control work was in progress on February 13, 1987.

14653 Klenk	Sheet Piling 170 feet
14671 Klenk	65 feet
14715 Klenk	85 feet
678-80 Ashland	45 feet
684 Ashland	30 feet
690 Ashland	
466 Ashland	30 feet
468 Ashland	
474 Ashland	
889 Alter Road	20 feet

LG:ts

# City of Detroit

## INTER-OFFICE CORRESPONDENCE

TO: R. Ellena

DATE 2-25-87

FROM: L. Convery *LC*

SUBJECT: Fox Creek Flood Control Sites

March 25, 1986 to September 4, 1986

The following are the sites where emergency flood control work has been completed.

Ashland

Scripps

Klenk Island

191

14520

14604

374

14528

14660\*

386\*

14530

14674\*

390\*

14546

14684

392\*

14556

14697

408\*

14450

14705

414

14456

14715

482

486

490

502-4

552

558

664

666

\* No sheet piling

29 sites

LC:ts



CH  
JFC  
RWE

Finance Department  
Contract Compliance  
106 City-County Building  
Detroit, Michigan 48226  
(313) 224-1759

Coleman A. Young, Mayor  
City of Detroit

February 17, 1987

Mr. Robert L. Bogerty  
O'Laughlin Construction Company  
24460 Novi Road  
Novi, Michigan 48050

Re: Executive Order No. 22 Clearance  
Community and Economic Development Department  
Flooding of Areas in the City of Detroit  
Contract No. - 86-027

Dear Mr. Bogerty:

The Finance Department Contract Compliance Division is in receipt of your revised Construction/Demolition Worksite Employee Roster(s) and the accompanying Affidavit of Residency, Minority Status and Sex Verification for the project referenced above.

We have reviewed said documents for compliance with the requirements of Executive Order No. 22, which mandates that for all worker hours performed on construction projects, at least fifty percent (50%) be performed by bona fide Detroit residents, twenty-five percent (25%) by minorities, and five percent (5%) by women.

It has been determined that your revised workforce hours continue to meet these requirements, and that an Executive Order No. 22 Clearance may be granted.

Clearances are granted based upon the commitment from your company that it is able to and will continue to comply with all Executive Order No. 22 requirements during the entire term of the contract. These requirements are incorporated by specific language and by reference in your contract with the City of Detroit, and we must therefore advise that any failure to meet these requirements shall constitute a substantive breach of con-

Bella I. Marshall  
Finance Director

tract, as a result of which the City may exercise those rights provided to it under the contract and by law. Additionally, performance in regard to this substantive contract provision may be used to determine responsibility in connection with future contract awards.

If subcontractors are to be utilized on this project, prior to the start of work, the Construction/Demolition Worksite Employee Roster(s) and the Affidavit of Residency, Minority Status, and Sex Verification must be completed and notarized by your company and submitted to the Contract Compliance Division.

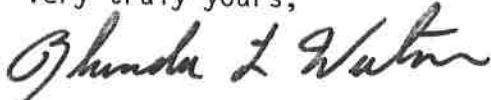
Roster and Affidavit forms cannot be accepted from a subcontractor unless Contract Compliance has received a written statement from your company authorizing that subcontractor to act in behalf of your company in the submission of the forms. In the event such a written authorization is submitted, the Rosters and Affidavits submitted by any authorized subcontractor(s) will be contractually binding upon your company.

The Roster and Affidavit must also be submitted if there is ever a change in any of the workers assigned to this project.

As an additional requirement, please submit a copy of all payroll reports generated by your company for this project to the Contract Compliance Division. These payroll reports must account for all workers assigned to this project.

Your cooperation in this matter is appreciated.

Very truly yours,



Rhonda L. Watson, Acting Chief  
Contract Compliance Unit

RLW/rk

cc: H. Jean Powell  
✓ Clyde Hopkins



**FINANCE DEPARTMENT  
CONTRACT COMPLIANCE**

**EXECUTIVE ORDER NO. 22 CLEARANCE**

DATE: February 17, 1987

TO: Clyde Hopkins  
City Engineering Department

FROM: Rhonda L. Watson, Acting Chief *RLW*  
Contract Compliance Unit

RE: Project: Flooding of Areas in the City of Detroit

Contractor: O'Laughlin Construction Company

File/Contract No(s): 86-027

The Finance Department Contract Compliance Division is in receipt of a revised Construction/Demolition Worksite Employee Roster(s) and the accompanying Affidavit of Residency, Minority Status and Sex Verification for the project referenced above.

It has been determined that the project remains in compliance with the requirements of Executive Order No. 22.

Please insure that Contract Compliance receives copies of all invoices and payrolls submitted by the Contractor to facilitate our monitoring of the project for continued Executive Order No. 22 compliance.

Failure to comply with the provisions of Executive Order No. 22 shall constitute a material breach of the contract, and the City may exercise those rights provided to it under the contract and by law. Sanctions may include, but are not limited to, termination of all or part of the contract, withholding of payment, and/or liquidated damages.

Your cooperation is appreciated.

cc: Purchasing Division  
H. Jean Powell

RLW/rk

VOUCHER AUDIT WILL HOLD UP ALL CONTRACT PAYMENTS UNTIL ALL INSURANCE CERTIFICATES/POLICIES REQUIRED UNDER THE CONTRACT HAVE BEEN RECEIVED. CONTRACTORS SHOULD BE MADE AWARE OF THIS REQUIREMENT.

# CITY OF DETROIT

## CONTRACT TRANSMITTAL RECORD

TRACT NO.

CONTRACT CLASSIFICATION: (Check One)  
 REVENUE       EXPENDITURE

METHOD OF PAYMENT: (Check One)

DEPT. HEAD'S SIGNATURE

DEPARTMENT  
C.E.D./DPW

TYPE OF CONTRACT: (Check One)  
 CONSTRUCTION/DEMOLITION     LEASE     DEED

VOUCHER

DEPT. CONTACT PERSON  
H. Jean Powell

PHONE NO.  
224-3950

PERSONAL SERVICES       PROFESSIONAL SERVICES

PAYROLL

ACCOUNT NUMBER  
|\_|\_|-|\_|\_|-|\_|\_|-|\_|\_|

DATE PREPARED

FUNDING SOURCE: (Percent)  
FEDERAL \_\_\_\_\_%    STATE \_\_\_\_\_%    CITY \_\_\_\_\_%

ENGINEER'S ESTIMATE  
 CONTRACT       CHANGE

AMOUNT  
425,000.00  
\$ 450,000.00

PURPOSE OF CONTRACT: Provide labor, equipment and materials to construct structures to control and abate flooding at both public and private property locations in the City of Detroit.

CONTRACTOR'S NAME: O'Laughlin Construction Company     CORPORATION     PARTNERSHIP     INDIVIDUAL  
CONTRACTOR'S ADDRESS: 24460 Novi Road, Novi, MI 48050    PHONE NO. \_\_\_\_\_  
FEDERAL EMPLOYER/SOCIAL SECURITY NO. \_\_\_\_\_    MINORITY FIRM:     YES     NO

CHANGE ORDER NO.

TIME & DATE IN		TIME & DATE OUT
	<b>FINANCE PURCHASING DIVISION</b>  FINANCE DEPARTMENT CONTRACT NUMBER ASSIGNED _____ INITIALS _____	
	<b>BUDGET</b> <input type="checkbox"/> RECOMMEND APPROVAL  <input type="checkbox"/> RECOMMEND DENIAL _____ BUDGET DIRECTOR OR DEPUTY	
	<b>GRANTS MANAGEMENT SECTION</b> <input type="checkbox"/> RECOMMEND APPROVAL  <input type="checkbox"/> RECOMMEND DENIAL _____ GRANT ACCOUNTANT	
	<b>FINANCE DEPARTMENT</b> <input type="checkbox"/> RECOMMEND APPROVAL  <input type="checkbox"/> RECOMMEND DENIAL _____ FINANCE DIRECTOR OR DEPUTY	
	<b>VOUCHER AUDIT</b>  FUNDS AVAILABLE AND ENCUMBERED _____ CHIEF ACCOUNTING OFFICER	
	<b>PURCHASING DIVISION</b>  _____ PURCHASING DIRECTOR	
	CITY COUNCIL APPROVAL JCC REFERENCE: PAGE _____ DATE _____	

(USE ONLY ONE SET FOR EACH CONTRACT PACKAGE)

# City of Detroit

## INTER-OFFICE CORRESPONDENCE

TO: File

DATE September 4, 1986

FROM: L. Convery *JJC*

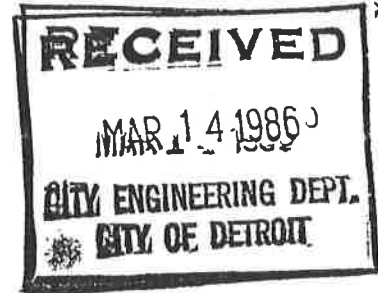
SUBJECT: 191 Ashland, Flood Control Work

On August 25, 1986, O'Laughlin Construction Company began repairs to the boat house at 191 Ashland. These repairs were to replace parts of the roof and roof framing that had been removed to provide overhead clearance for driving sheet piling. The Contractor had just begun repairing roof rafters, roofing, etc., when the owner indicated that he wanted a complete new roof and completely rebuilt walls. The owner then ordered the Contractor off of his property. We vacated the site directly and have not had field communication with the owner to date.

No further clean-up work has been done on the site since August 25, 1968.

LDC/bo

Sr. Assistant Civil Engineer



XC:EMK  
NJK  
REL  
RAK

Law Department  
1010 City-County Bldg.  
Detroit, Michigan 48226  
(313) 224-4550

Coleman A. Young, Mayor  
City of Detroit

March 13, 1986

Mayor's Office  
1126 City-County Building  
Detroit, Michigan 48226

RE: Lower Eastside Flooding

Dear Mr.

In order to assist riparian and related property owners in the downriver area from anticipated floodwaters, the placing of some type of barrier (e.g. sand cribs, sheet piling, etc.) has been proposed as a vital solution for floodwater control.

Accordingly, assistance by the City in placing barriers on private property requires the following procedure under Detroit City Ordinance 38-6-4:

- 1) The Director of the DPW must find that the safety, health, property and general welfare of the public is in danger by floodwaters and that immediate action is necessary.

Comment: It is my understanding that this has already been done.

- 2) The Director of the DPW must then give notice to riparian owners at the address given at the last assessment role that they have an obligation to provide adequate barriers, dikes or other embankments to protect against the overflow of floodwaters.

Comment: It is my understanding that this has already been done.

- 3) Such notice must also be posted on every lot, building or structure.

Comment: It is my understanding that this has already been done.

- 4) Should any riparian owner fail to provide adequate barriers the Director of the DPW shall proceed to provide such barriers after obtaining the approval of the City Council.

010-214-450  
Comment: A City Council resolution is necessary in order for the DPW to assist in placing barriers on the lands of riparian owners. This action should be taken immediately. If you would like a proposed resolution to be drafted by this office please so advise.

It should also be noted that I have contacted the Honorable Thomas J. Foley to ascertain the status of an order that he entered in 1973, regarding permission of the City to enter land of the riparian owners to provide barriers for floodwater protection in this same area (City of Detroit v Carl Heinrich, et al., Case No. 73-232576-CZ). It is the Judge's position that his original Order of March, 1973 was, as far as he was concerned, still in effect. He feels that a reinstatement of the Order, or alternately an Order Show Cause, are unnecessary at this time. The Judge indicated that upon notice to the City of a riparian owner who refuses to allow entry onto the land, should cause a Praecipe to be filed on behalf of the City to have that owner appear before the Court and Show Cause as to why they cannot comply with the Court's Order.

- 5) Under the ordinance the barrier cannot be removed without permission of the Director of the DPW. The riparian owner has an obligation to maintain that barrier.
- 6) From time to time the DPW Director shall cause the barrier to be inspected, and if not to have been properly maintained by the riparian owner, then it is the obligation of the City to maintain that barrier.

Comment: If these are the same barriers that were placed on the land in 1973 then it

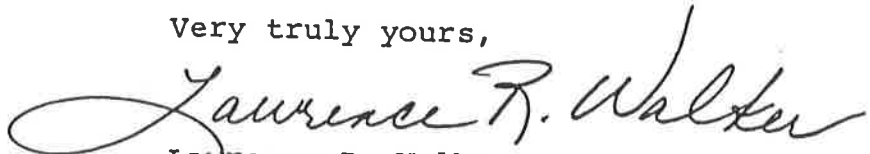
is a strong argument in favor of the City that we are performing the obligation of maintenance that is required under the ordinance. Therefore, if it is necessary for the City to ask the riparian owner to pay for the cost of rebuilding these barriers it may do so.

- 7) Under the ordinance replacement cost for maintenance shall be assessed to the owner.
- 8) Collection of the replacement cost by the City shall be by an action and assumpsit.

Comment: Assumpsit is a general breach of contract action, upon which one may recover the cost he or she has incurred against one who has retained a benefit. In this instance, the riparian owner had an obligation to maintain a seawall, which the City of Detroit must now repair. The theory is, it is unreasonable for the riparian owner to retain the benefit of the City building a barrier to protect another's land; there is no general obligation for a municipality to protect riparian owners from floodwaters, except as otherwise provided by statute or ordinance. However, it should be noted that there is case law that states the failure of a municipality to maintain a seawall after if the obligation arises under an ordinance, is an actionable claim by the riparian owner against the municipality. Therefore, a policy decision must be made as to whether the City would like to pursue non-complying riparian owners for the cost incurred by the City to repair or maintain the barriers.

If there are any questions or comments, please feel free to contact me.

Very truly yours,



Lawrence R. Walker  
Assistant Corporation Counsel

LRW/vsh

cc: Clyde Hopkins, Engineering Department  
Lou Kotula, DPW  
Frank Jackson, III, Law Department



CONSTRUCTION COMPANY

24460 NOVI ROAD P. O. BOX 466 NOVI, MICHIGAN 48050

August 5, 1986

City of Detroit  
8221 West Davison  
Detroit, MI 48238

Attention: Mr. Jim Crane

Reference: Emergency Flood Control Work - Ashland/Scripps  
Partial Billing

Gentlemen:

We request payment in the amount of \$126,408.00 for the work performed on subject job from May 27, 1986 through August 1, 1986.

The cost breakdown is as follows:

Labor . . . . .	\$ 46,974.63
Materials . . . . .	19,814.71
Equipment . . . . .	29,048.54
Jobsite Direct Cost . . . . .	3,100.00
G.L. Insurance (included in wage rates) . . . . .	0.00
	<u>\$ 98,937.88</u>
10% Overhead . . . . .	9,893.79
	<u>\$108,831.67</u>
15% Profit . . . . .	16,324.75
	<u>\$125,156.42</u>
1% Bond . . . . .	1,251.56
TOTAL:	<u>\$126,407.98</u>

Details of costs are attached for your review.

If you have any questions, please do not hesitate to call.

Very truly yours,

O'LAUGHLIN CONSTRUCTION COMPANY

R. L. Bogerty  
Project Manger

RLB/ky

Enclosures

*O.K. for Payment  
R.W. Ellens  
8-12-86*

# City of Detroit

## INTER-OFFICE CORRESPONDENCE

TO: H. S. Powell

DATE Aug. 12, 1986

FROM: R. Ellena

SUBJECT: Partial Billing  
Letter of Intent  
Emergency Flood Control

*RE*

A partial billing has been received from O'Laughlin Construction Company for work performed on subject job from May 27, 1986 through August 1, 1986. This invoice has been checked and I therefore recommend the invoice be paid.

8-13-86

*Dick  
This billing is not in  
accordance with contract -  
Check with J.W.  
Joan*

c.c. J. Crane ✓  
J. Wickey



**O'LAUGHLIN**

CONSTRUCTION COMPANY

24460 NOVI ROAD P. O. BOX 466 NOVI, MICHIGAN 48050

August 5, 1986

City of Detroit  
8221 West Davison  
Detroit, MI 48238

Attention: Mr. Jim Crane

Reference: Emergency Flood Control Work - Ashland/Scripps  
Partial Billing

Gentlemen:

We request payment in the amount of \$126,408.00 for the work performed on subject job from May 27, 1986 through August 1, 1986.

The cost breakdown is as follows:

Labor . . . . .	\$ 46,974.63
Materials . . . . .	19,814.71
Equipment . . . . .	29,048.54
Jobsite Direct Cost . . . . .	3,100.00
G.L. Insurance (included in wage rates) . . . . .	0.00
	<hr/>
10% Overhead . . . . .	\$ 98,937.88
	9,893.79
	<hr/>
15% Profit . . . . .	\$108,831.67
	16,324.75
	<hr/>
1% Bond . . . . .	\$125,156.42
	1,251.56
TOTAL:	<hr/>
	\$126,407.98

Details of costs are attached for your review.

If you have any questions, please do not hesitate to call.

Very truly yours,

O'LAUGHLIN CONSTRUCTION COMPANY

R. L. Bogerty  
Project Manger

RLB/ky

Enclosures

*O.K. for Payment  
R.W. Ellens  
8-12-86*

GENERAL CONDITIONS

20. METHODS FOR DETERMINING ADJUSTMENTS IN CONTRACT PRICE

Adjustments, if any, in the Contract price, either additive or subtractive, by reason of a change or modification in the Contract ordered in writing by the City Officer, shall be limited to the amount stated in the written order. Adjustment in price shall be determined by one or more of the following methods, the City Engineer having the right to select the method or methods used.

C. *Cost-Plus-Limited Amount*: By this method, the amount of adjustment will be determined by (a) the actual, necessary, and reasonable costs directly incurred by the Contractor or subcontractor, plus (b) a fixed percent, and (c) with the total amount limited to the maximum amount stated in the City Officer's written order.

The total amount of the adjustment will be determined as follows:

"Actual cost" will consist of:

- 1) *Labor*: Being the amount shown on the Contractor's payroll for direct labor used, with payroll taxes or contributions for Unemployment Insurance Compensation and Federal Social Security, etc., added, when same have been incurred. In no case, however, shall the wage rates charged for labor exceed the wage rates paid for the same class of labor employed on the original Contract work; plus
- 2) *Materials*: Being the net cost of materials, including the cost of transportation to the site, as shown by invoices; plus
- 3) *Equipment*: Being the actual cost of equipment rental, or rental value if contractor-owned, but not to exceed the prevailing rentals charged in the Detroit district for equipment of like size and condition, plus the actual incurred costs for necessary supplies and repairs for operating the equipment; plus
- 4) *Insurance*: Being the net additional cost of insurance premiums which are incurred and which are determined from the labor payrolls, limited, however, to such types of insurance required by the Contract.

To the total sum of Items 1 through 4 shall be added the following percent:

- 5) *For Work Done by Contractor's Forces*: Ten percent (10%) plus fifteen percent (15%) for all items of expense, use of ordinary tools, general overhead and profit.

*Method of Payment for Original Contract*

**City of Detroit**  
**INTER-OFFICE CORRESPONDENCE**

TO: C.R. Hopkins

DATE October 28, 1986

FROM: L.D. Convery *JDC*

SUBJECT: O'Laughlin Construction Co.  
Emergency Contract for  
Fox Creek Area Flood Control  
Work

This is a brief financial summary of the \$425,000 contract for flood control work.

Labor and Equipment are actual values for each site. The total cost factor is a percent of site labor and equipment with respect to the total contract value. Total cost includes material, overhead, profit, bond, etc.

Twenty-nine sites were up-graded, six without sheet piling.

The unit cost per horizontal foot of sheet piling installed is \$385. The wide variations of site unit costs reflect the diverse conditions encountered at each site.

Senior Assistant Civil Engineer

LDC/lhj

cc: J. Crane  
File

1986 Fox Creek Flood Control Project  
 March 25 thru September 4

LOCATION	LABOR	EQUIPMENT	TOTAL COST FACTOR	TOTAL COST	SHEET PILING COST/FT (HORIZ)	SHEET PILING LENGTH
552 ASHLAND	1,826.57	1,279.16	1.29	5,469.60	179.35	31.0
558 ""	353.53	247.56	0.25	1,060.00	179.58	6.0
502-4 ASHLAND	2,487.48	1,541.45	1.67	7,080.80	232.18	31.0
14520 SCRIPPS	3,422.04	1,740.16	2.14	9,073.60	188.23	49.0
191 ASHLAND	32,046.28	22,643.98	22.67	96,120.80	506.51	84.5
14528 SCRIPPS	3,400.47	1,576.81	2.06	8,734.40	522.26	108.4 17.0
414 ASHLAND	17,254.45	12,138.02	12.18	51,643.20	576.23	91.1
666 ASHLAND	4,799.53	5,380.68	4.22	17,892.80	399.73	45.5
14604 KLENK	15,260.50	14,563.56	12.36	52,408.40	391.12	136.2
14705 KLENK	4,021.78	2,323.07	2.63	11,151.20	283.38	40.0
374 ASHLAND	2,070.10	1,448.42	1.46	6,190.40	593.63	10.6
14697 KLENK	290.57	214.42	0.21	890.40	123.98	7.3
14715 KLENK*	1,822.27	1,174.81	1.24	5,257.60		--
482 ASHLAND	286.66	186.15	0.20	848.00	287.33	3.0
486 ""	573.32	372.30	0.39	1,653.60	193.20	8.7
490 ""	286.66	186.15	0.20	848.00	139.02	6.2
386 ASHLAND*	237.14	156.66	0.16	678.40		--
390 ""	336.77	176.96	0.21	890.40		--
392 ASHLAND*	502.78	247.12	0.31	1,314.40		--

LOCATION	LABOR	EQUIPMENT	TOTAL COST FACTOR	TOTAL COST	SHEET PILING COST/FT (HORIZ)	SHEET PILING LENGTH
664 ASHLAND	1,003.36	1,003.36	0.58	2,359.20	384.58	6.5
14546 SCRIPPS	13,820.09	8,086.49	9.08	38,499.20	297.60	131.5
14556 SCRIPPS	8,115.63	5,702.73	5.72	24,252.80	373.53	66.0
14684 KLENK	3,663.10	1,277.24	2.05	8,692.00	310.01	28.5
14660 KLENK*	3,964.51	1,895.75	2.43	10,303.20		--
14530 SCRIPPS	4,578.01	2,231.00	2.82	11,956.80	552.45	22.0
14456 ""	13,474.76	6,126.33	8.12	34,428.80	366.84	95.4
14450 SCRIPPS	2,199.96	944.37	1.30	5,512.00	337.52	16.6
14674 KLENK*	2,425.94	1,293.83	1.54	6,529.60		--
408 ASHLAND	1,117.90	148.38	0.52	2,204.80	430.99	5.2
*NO SHEET PILE				424,000.00		1048 FEET

TOTAL COST As a percentage of the actual labor and equipment at each site.

Sheet piling - 403000/1048 = \$385/horiz

9 - 13 feet long



Department of Public Works  
Administrative Division - Director's Office  
513 City-County Building  
Detroit, Michigan 48226-3468  
(313) 224-3900

Coleman A. Young, Mayor  
City of Detroit

March 20, 1986

HONORABLE CITY COUNCIL:

RE: Floodwater Protection - Lower Eastside, Alter Road at River

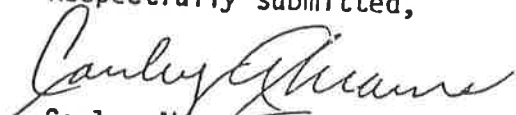
It has been determined that the safety, health, property and general welfare of the public in the above referenced areas are in imminent danger of serious floodwaters. It has been predicted by the United States Army Corps of Engineers, that floodwater in these areas will reach the highest watermark in this century.

It is estimated it will cost \$190,000 to implement the emergency measures necessary to stop the major leaks in the flood area. Funding will be provided by a \$40,000 State of Michigan grant and \$150,000 in City funds.

The Governor has declared a "flood emergency" in 17 counties and made funds available to minimize flood damage. Upon application, the City will be eligible for \$40,000 effective April 1, 1986. It appears there is no alternative but for the City to provide the additional \$150,000 necessary to contain this flooding.

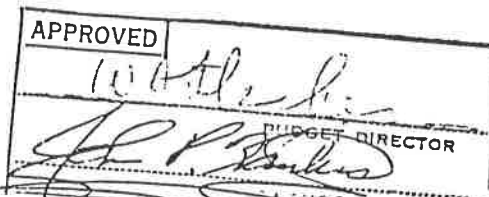
Pursuant to the Detroit City Code, Section 38-6-4 and its directives, approval is hereby requested to enter upon any private property, buildings, or structures in these areas without hindrance for the purpose of investigation and inspection, and to erect and construct barriers, dikes or embankments, and take such other measures as necessary to control the floodwaters within the City of Detroit in accordance with the attached resolution.

Respectfully submitted,

  
Conley Abrams, Director  
Department of Public Works

CCA/bh  
2691C

Attachment



Conley Abrams, Director

WHEREAS, Unusual weather conditions, including rain and heavy winds, have created a dangerous and hazardous condition in certain parts of the City of Detroit, and have resulted in the flooding of basements of dwellings and property; and

WHEREAS, It has been predicted by the United States Army Corps of Engineers, that floodwaters in certain parts of the City of Detroit will reach the highest watermark in this century; and

WHEREAS, It having been determined in the judgment of the Director of the Department of Public Works that such condition has created a hazardous and unsafe situation which requires the erection of barriers, dikes or embankments to control floodwaters in certain areas within the City of Detroit.

NOW, THEREFORE BE IT RESOLVED, That pursuant to the Detroit City Code, Section 38-6-4, it is deemed necessary for the general peace, health, safety and welfare of the City of Detroit, the Director of the Department of Public Works of the City of Detroit, the employees of the Department of Public Works, and their agents and employees may at any time enter upon any private property, building or structure, without hindrance, for the purpose of investigation and inspection and are hereby empowered to erect and construct barriers, dikes or embankments and to take such other measures as are necessary to control the floodwaters within the City of Detroit; and

WHEREAS, The Governor has declared a flood state of emergency and made funds available to contain this flooding; and

WHEREAS, The City of Detroit expects to be eligible for \$40,000 of these State funds; therefore

BE IT RESOLVED, That the Finance Director be and is hereby authorized to increase estimated revenue and appropriation in accordance with the terms of the State grant for flood control; and be it further

RESOLVED, That \$150,000 be transferred from Appropriation No. 94-0388, Repayment of Short Term Borrowing to Appropriation No. 22-0048, Special Projects; and be it further

RESOLVED, That the Finance Director be and is hereby authorized to establish accounts, transfer funds, and honor vouchers in accordance with this resolution, the foregoing communication and standard City procedures.



*City Engineering Department  
Ninth Floor Cadillac Tower  
Detroit, Michigan 48226*

*Coleman A. Young, Mayor  
City of Detroit*

April 22, 1986

HONORABLE CITY COUNCIL

RE: Floodwater Protection  
Lower East Side, Alter Road at River  
Request for Additional Funds (86-051)

In response to the request of Mr. Conley Abrams, Director of the Department of Public Works, your Honorable Body on March 20, 1986, approved the transfer of one hundred and fifty thousand dollars (\$150,000.00) from Appropriation No. 94-0388 (Repayment of Short Term Borrowing) to Appropriation No. 22-0048 (Special Projects). These funds, along with \$40,000.00 from the State of Michigan, were to be used to erect and construct barriers, dikes or embankments and to take other measures as necessary to control the flood waters in the City of Detroit.

In order to expedite the time schedule to permit immediate construction activity to control and abate flooding conditions, it was necessary to utilize the emergency provision of the City of Detroit Code, Section 21-3-6(B) which provides for waiver of competitive bids when "Public exigencies require the immediate delivery of the articles or performance of the service." By the same above-referenced section of the City Code, the Finance Department Director, Bella Marshall, as of March 21, 1986 authorized a special Finance Directive to process purchase requisitions on an emergency basis. Under the authority of the executed directive, this Department on March 21, 1986, entered into an interim agreement with O'Laughlin Construction Company to perform work for the protection of health, safety and welfare of the public.

O'Laughlin Construction Company commenced work on Monday, March 24, 1986 and as of April 21, 1986 has made substantial progress in providing steel sheet piling and placing clay dikes and sandbag barriers to control flooding. The cost of the work as of 8:00 a.m., April 21, 1986, is \$179,890.89 and it is estimated that the funds required to complete the work is \$37,500.00 which would result in a total cost of \$217,340.89. Since the Department of Public Works was allocated \$15,000.00 for materials and supplies, present funds available for the contract are \$175,000.00 resulting in a shortage of \$42,340.89.

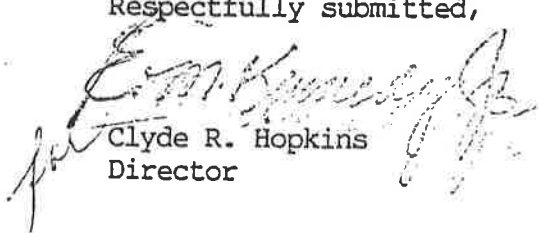


April 22, 1986

To cover any unforeseen development, it is requested that your Honorable City Council transfer an additional sum of fifty thousand dollars (\$50,000.00) to Appropriation No. 22-0048 (Special Projects).

As the work progresses, you will continue to be informed of the steps taken by this Department to ensure control and abatement of flooding for the public safety, health and welfare. Your continuing cooperation is appreciated in the resolution of this condition.

Respectfully submitted,

  
Clyde R. Hopkins  
Director

JVW:mm

cc: F. Martin, Mayor's Office  
B. Marshall, Finance Dept.  
J. Kanters, Finance Dept.  
C. Abrams, D.P.W.  
D. Pailen, Law Dept.  
K. Johnson, Civil Defense  
O. Collins, Purchasing Div.  
R. Kueber, Purchasing Div.  
J. Messner, Budget Dept.  
E. Kennedy, City Engineering Dept.

bcc: N. Kawwas  
R. Karber  
R. Ellena  
J. Crane  
J. Wickey

UPDATE ON FLOOD CONTROL AREA - OCTOBER 16, 1986

- A. On October 16, 1986, the water level is at 98.0. The catch basins are taking all of the water that is leaking. We have 4 major leaks and 32 minor leaks.
- B. With elevation at 98.45 (two weeks ago), we had 16 major leaks and 36 minor leaks. The catch basins were not taking all of the water and there was standing water on Klenk Island, Manistique and Philip - curb to curb. We are requesting \$350,000 to install additional sheet piling, ~~at the above locations.~~ The contractor, O'Laughlin Construction, Inc., is willing to extend that emergency contract.
- C. The 98.45 elevation of two weeks ago was the highest we have had since 1950. During the 1973 flood, the elevation was 98.3. During the 1985 flood, the elevation was 98.4.
- D. City Engineering Department is recommending another meeting with homeowners or occupants of the flood area:
- (1) Discuss their continuing maintenance of seawalls and sandbags, and
  - (2) Possibility of discussing our Feasibility Study

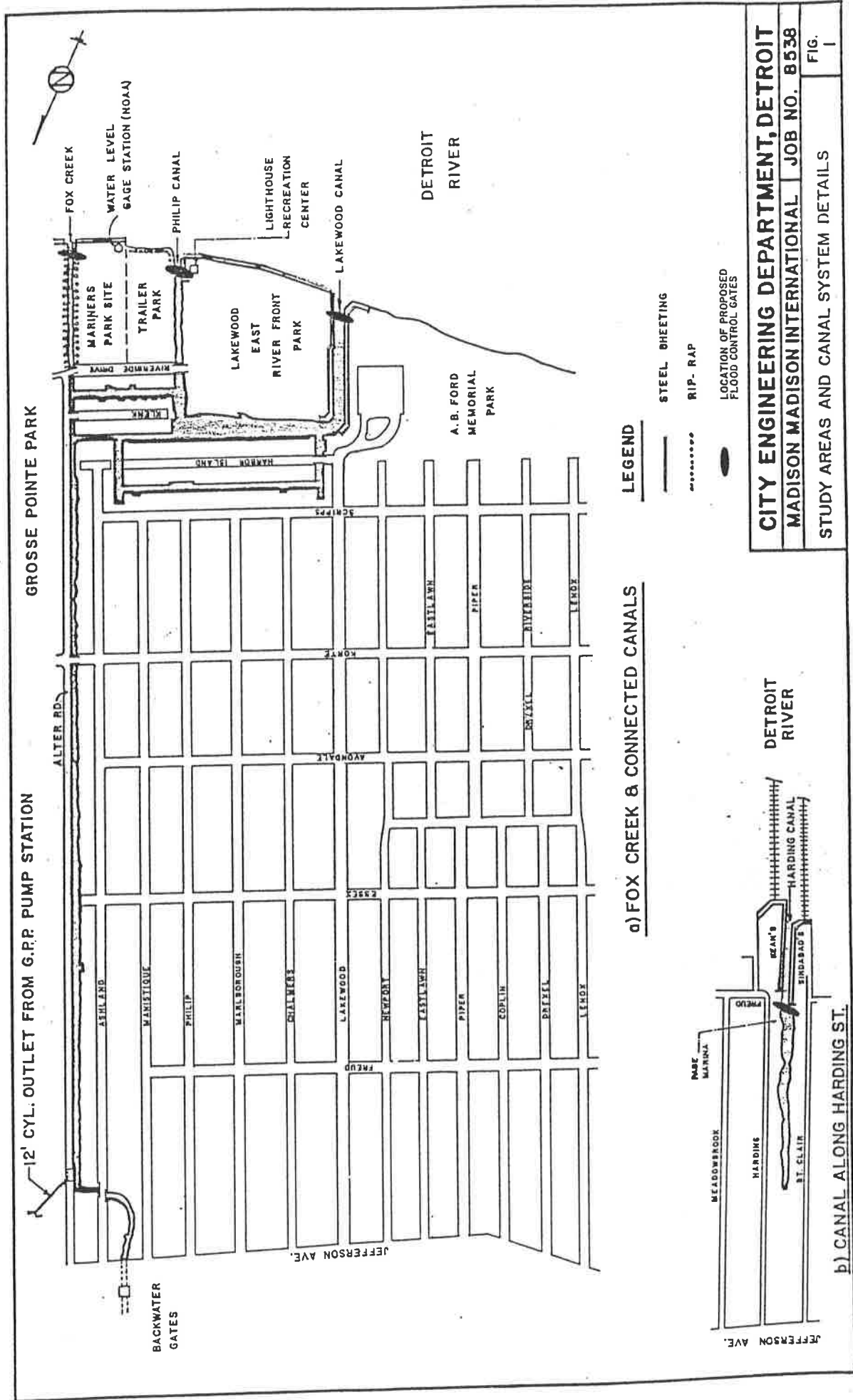
C. HOPKINS

FLOOD ABATEMENT  
CONTROL OF WATER IN CANALS  
ESTIMATE OF CONSTRUCTION COST

- Scheme #1 - Sheet Piling along all canal edges - 9.5 to 10.5 M
- Scheme #2 - New Sewer from Grosse Pointe Park Pumping Station & Detroit Overflow System to River plus control of water level in canals, by gates and locks plus small pumping to maintain water levels in canal - 13.5 to 14.5 M
- Scheme #3 - Major New Pumping Station at river edge plus control of water level in canals by gates and locks - 18.5 to 19.5 M

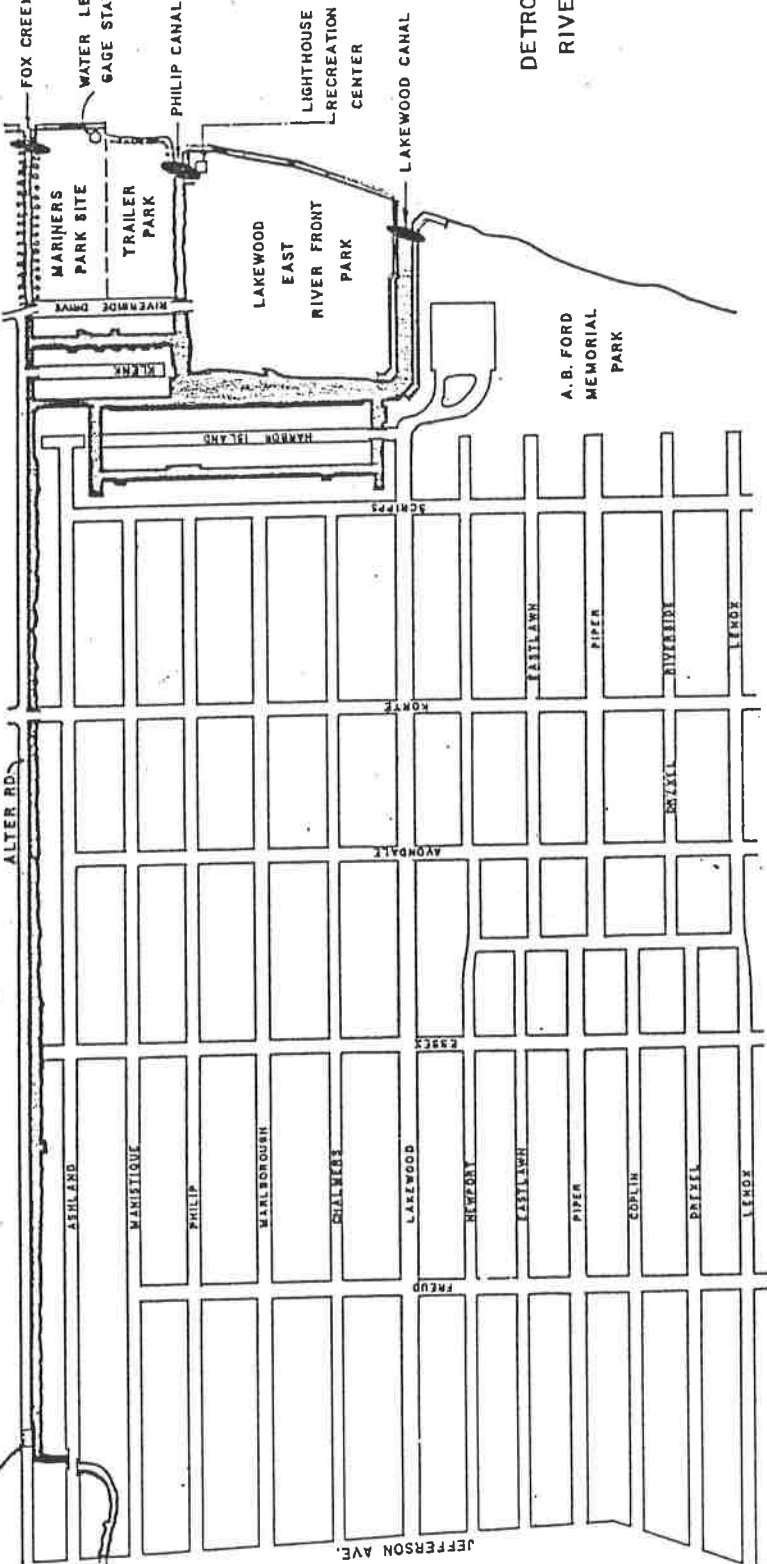
Cost of Engineering and Administration is in addition to these costs.

The costs are based on Madison Madison International's Feasibility Study.



12' CYL. OUTLET FROM G.P.P. PUMP STATION

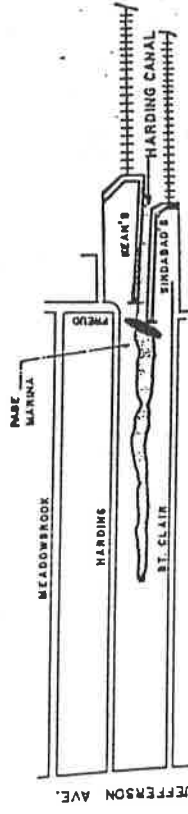
GROSSE POINTE PARK



**LEGEND**

- STEEL SHEETING
- ..... RIP-RAP
- LOCATION OF PROPOSED FLOOD CONTROL GATES

**a) FOX CREEK & CONNECTED CANALS**



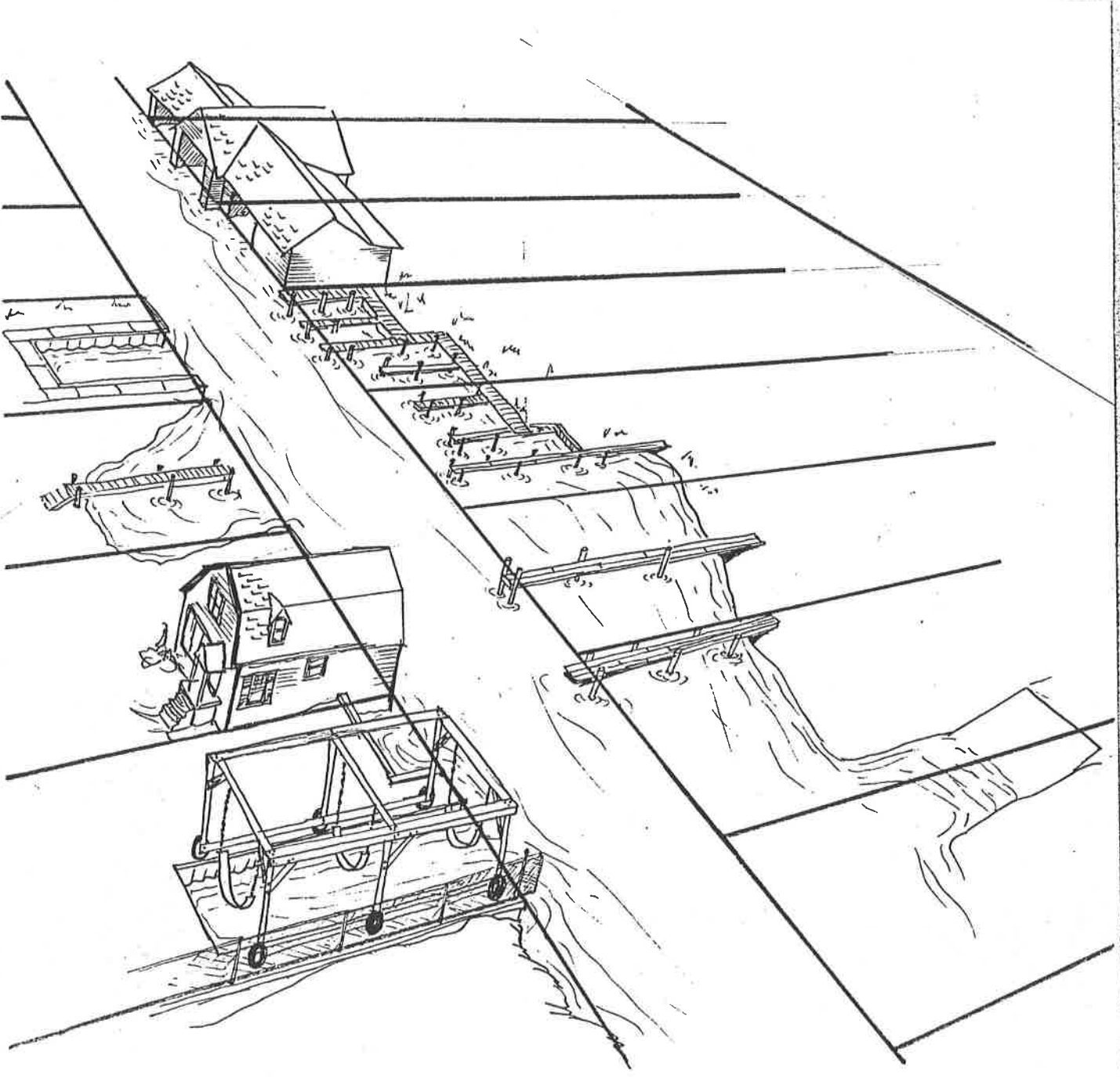
**b) CANAL ALONG HARDING ST.**

DETROIT RIVER

**CITY ENGINEERING DEPARTMENT, DETROIT**  
**MADISON MADISON INTERNATIONAL JOB NO. B538**  
**STUDY AREAS AND CANAL SYSTEM DETAILS** FIG. 1

POSSIBLE LEGAL ISSUES

- A) Of the approximately 2.6 miles of the canal system, about 45% appears to be on platted public waterways. The remaining 55% appears to be on platted private property.
- B) The majority of Fox Creek (that portion north of Klenk) is on private property. However, the Wayne County Drain Commission must have an easement or some right to use the waterway as a sewer outfall relief.
- C) Does the public have the right to use the entire canal system or could an individual property owner literally cut off the canal or restrict usage?
- D) Does the City have the right to go on private property to install a continuous row of sheeting?
- E) Where there are obviously publicly dedicated navigable waters, should the sheeting line go right on the property line or go in and out (and onto private property) as individual conditions warrant?
- F) Does the City have the right to sheet across individual boat houses or commercial boat liveries and install tee sections at some regular interval? The property owner would then be forced to install additional sheeting to protect his property, at his expense, if he still wanted to maintain his boat house or other particular circumstances. This sheeting could tie into the City sheeting, at the tees, and would require plans and a City permit for construction. If we can do this on the public canals; can we also do it on the private canals?
- G) Payment - Who pays for the sheeting? Is there any assessment to individual property owners?



SUBJECT: \_\_\_\_\_

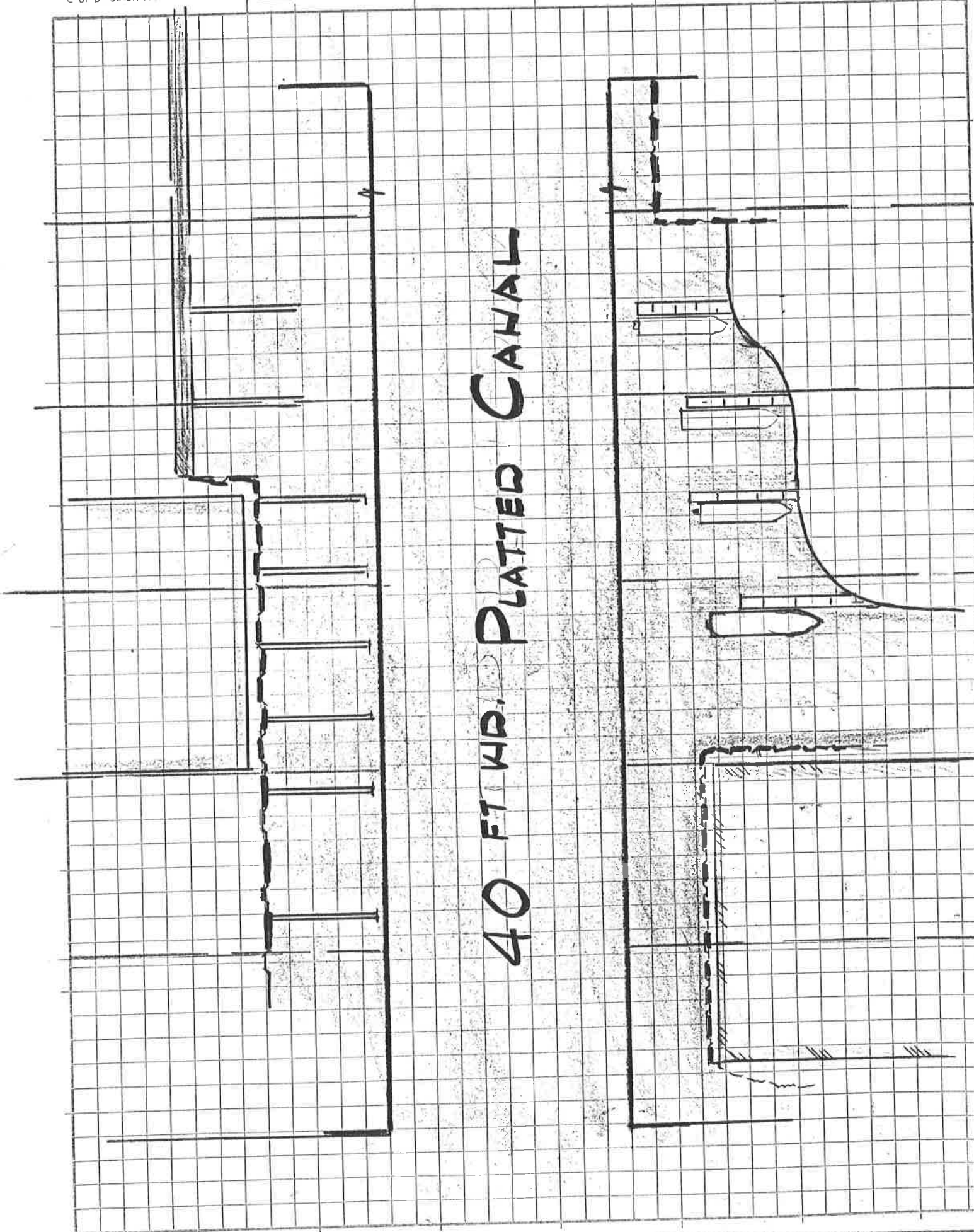
DETAIL: \_\_\_\_\_

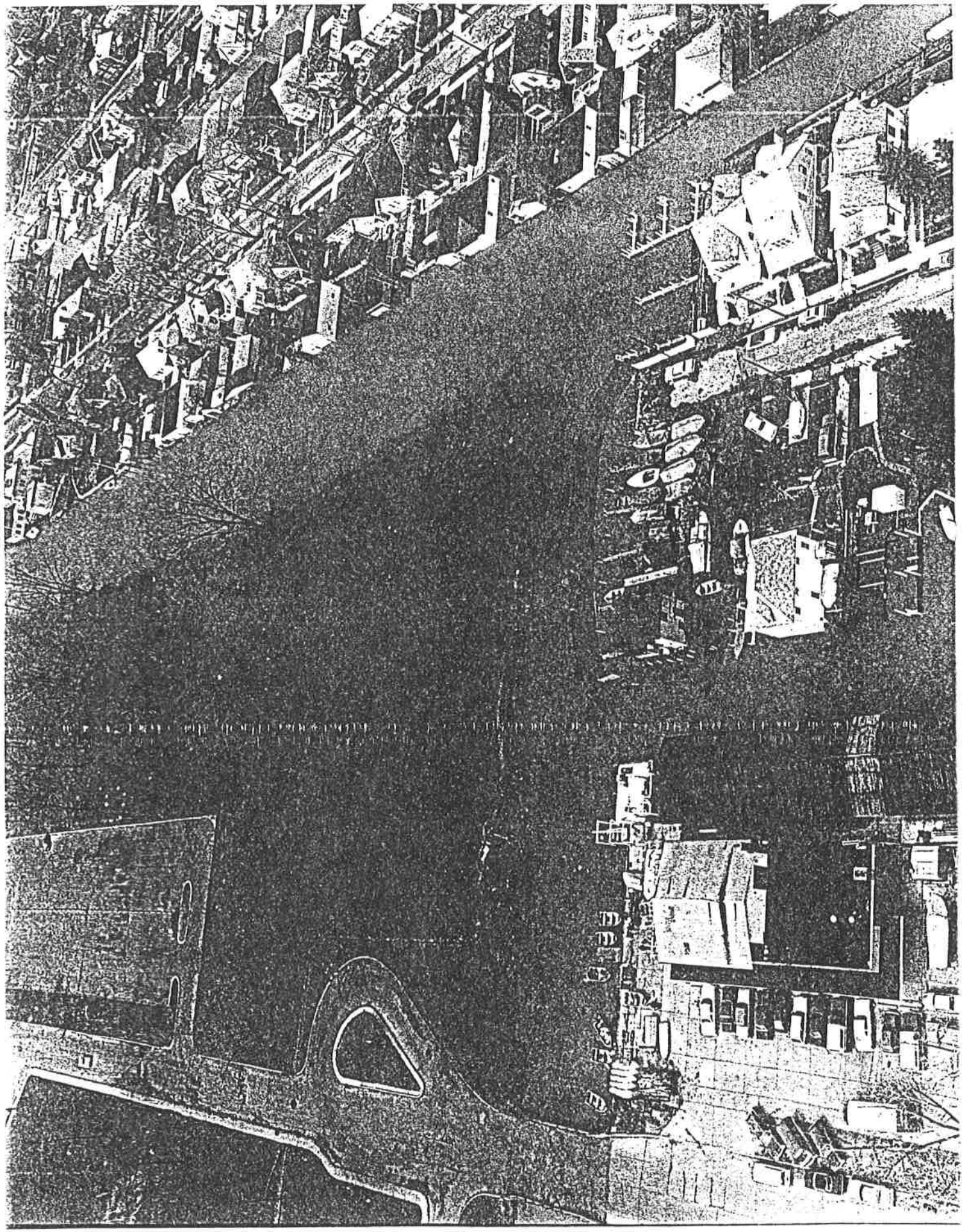
DATE \_\_\_\_\_

SHEET NO. \_\_\_\_\_ OF SHEETS \_\_\_\_\_

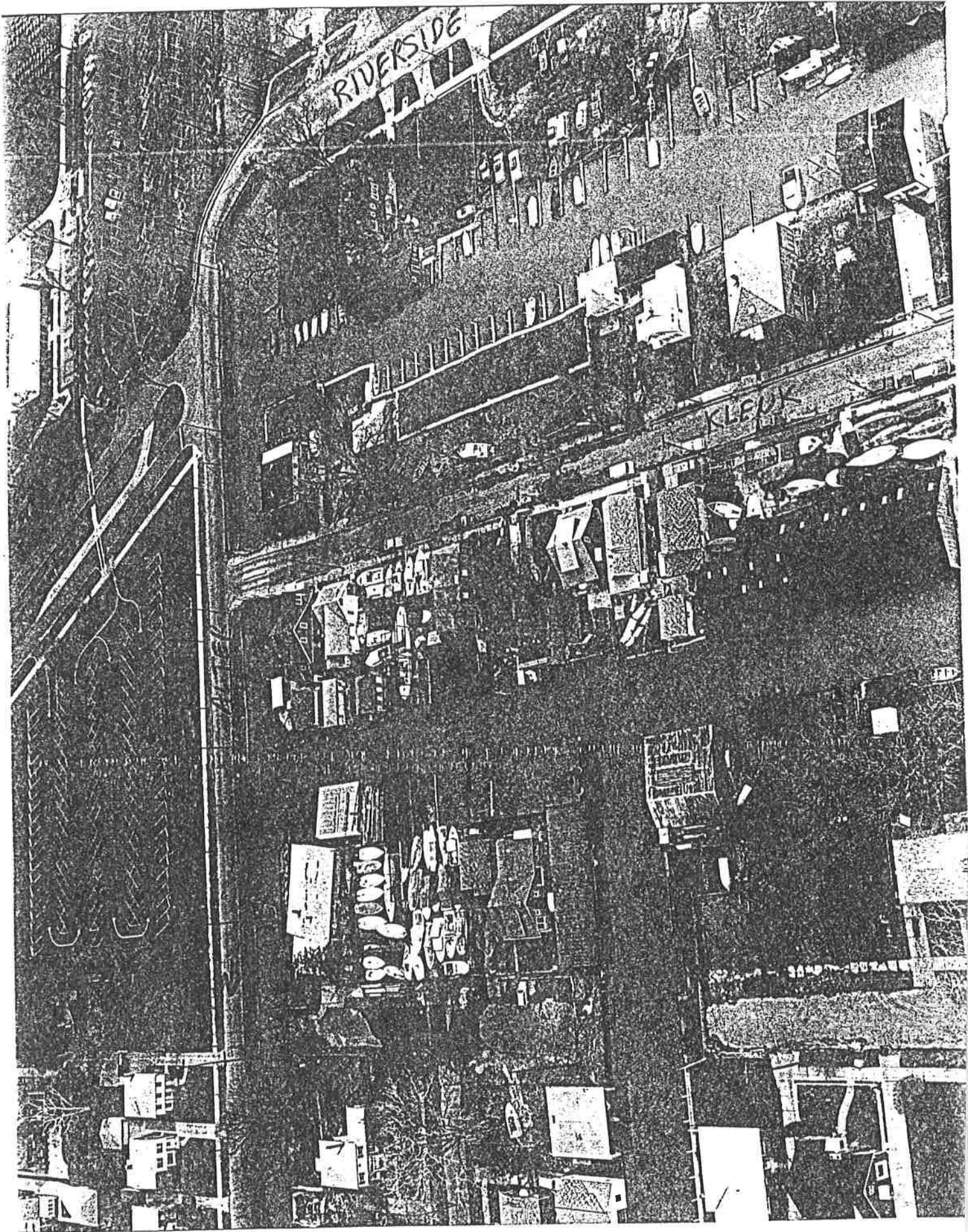
MADE BY \_\_\_\_\_

CHECKED BY \_\_\_\_\_







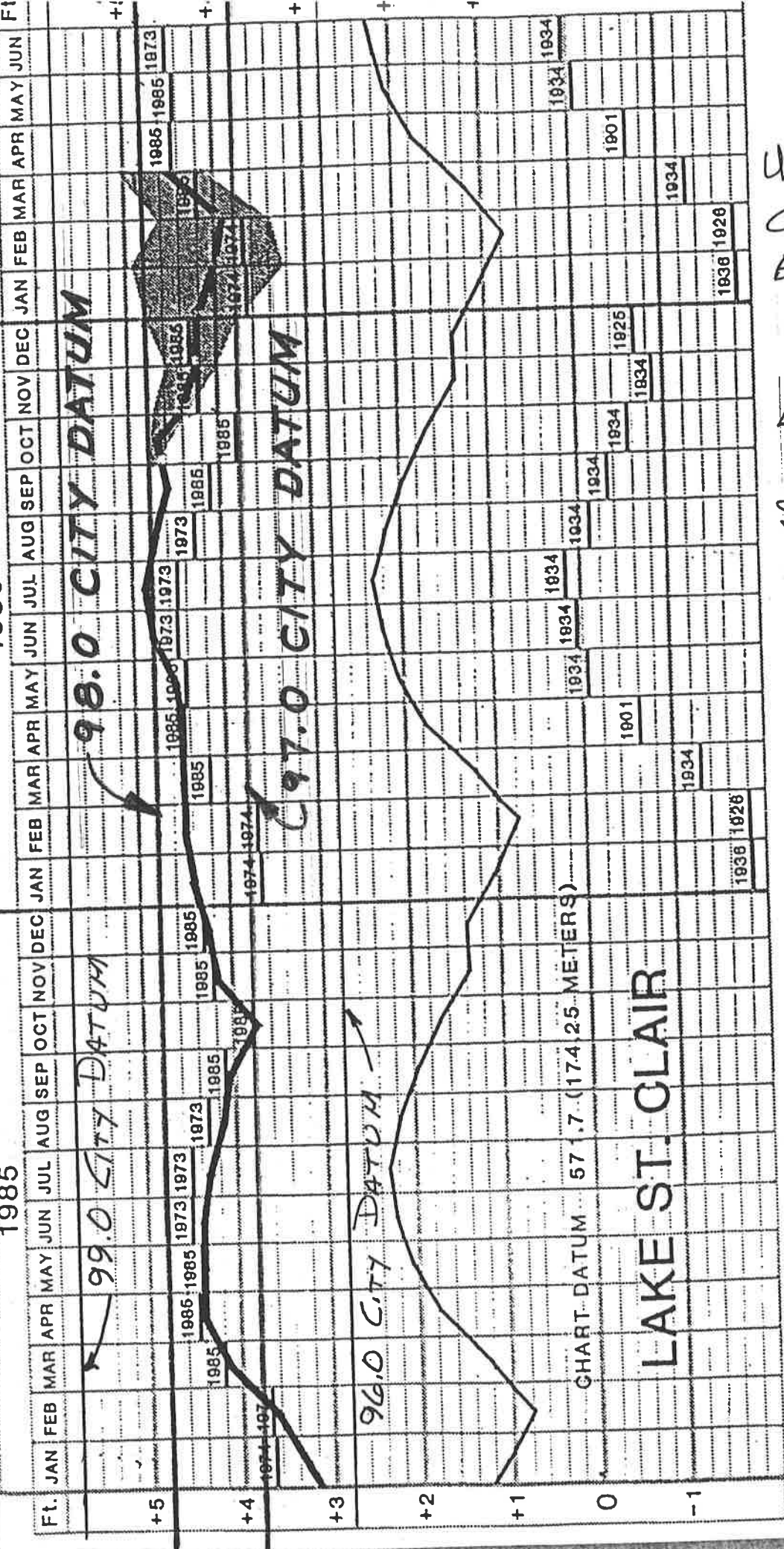


100.0 CITY DATUM

1985

1986

1987



U.S. ARMY  
CORPS OF  
ENGINEERS

LAKE LEVELS  
FOR  
SEPTEMBER 1986

CHART DATUM 57.7 (174.25 METERS)

LAKE ST. CLAIR



CITY OF  
DETROIT

## DETROIT METROPOLITAN WATER SERVICES

JEROME P. CAVANAGH, Mayor

GERALD J. REMUS, General Manager

July 25, 1969

The Honorable  
The Common Council  
1340 City-County Building  
Detroit, Michigan 48226

Gentlemen:

Subject: Fox Creek

This report on Fox Creek Flow Control is the first of two reports on flooding problems in Detroit to be presented for your consideration. The second report will be submitted within two weeks and will include a program for relief from basement flooding throughout the City.

Misunderstandings relative to Fox Creek have arisen over the years and this report is for the purpose of clarification. Basically, it is of utmost urgency that existing ordinances be more diligently complied with and existing inter-community obligations be met.

The attached report concludes that:

A. HOMEOWNERS TO RAISE SEAWALLS

The lowlands in the Fox Creek area are in imminent danger of a serious flood -- private property owners are tardy in building their dikes high enough to comply with a 1952 ordinance -- and the Department of Public Works is responsible for seeing that the necessary work is performed promptly without cost to the City.

B. GROSSE POINTE PARK TO FINANCE BACKFLUSHING

Continued periodic backflushing of the Fox Creek open channel (to freshen the channel's waters) is justified -- but only if the expense incurred is henceforth borne by its major contaminator -- Grosse Pointe Park. Further, an orderly program for future improvement of the quality of the channel water must be initiated and developed.

C. SUBURBAN USERS TO PAY FOR STORM PUMPING SERVICE

Grosse Pointe, Grosse Pointe Farms, and other users of the Fox Creek Enclosure (but not the Fox Creek Channel) are receiving storm flow pumping services and sewage disposal service far in excess of that for which Detroit is being paid. Detroit cannot justify providing this service unless adequately compensated.

D. PLANS TO BE MADE FOR REGIONAL STORMWATER CONTROL

Inter-community action must begin now to bring the quality of stormwater discharge from Grosse Pointe Park and other east side suburbs up to State standards. Provisions must also be made for handling the ever increasing quantity of storm flow from the neighboring suburbs in a coordinated, uniform, and equitable manner.

Presented with the facts, it is believed homeowners and suburbs will conscientiously act to avert future flooding problems. It is vital that the suburbs meet their financial obligations and we will work with them and others toward a regional solution to their treatment and drainage problems.

We are evaluating the equities involved, meeting with the suburbs and continuing the development of an improvement program as described in the report.

Your concurrence in this proposed action is respectfully requested.

Respectfully submitted,



G. Remus  
General Manager

REPORT TO THE COMMON COUNCIL  
CITY OF DETROIT

FOX CREEK DRAINAGE AREA

CITY AND SUBURBAN

REQUIRED CHANGES AND IMPROVEMENTS

BY

G. REMUS, GENERAL MANAGER  
DETROIT METROPOLITAN WATER SERVICES

July 25, 1969

11

## I. INTRODUCTION

Repeated reports of spillage over the banks of the Fox Creek Open Channel south of Jefferson Avenue have prompted this report to you.

Herein the salient facts of the situation are presented for your review and the action required by all parties concerned is outlined.

For reference, a map of the area under discussion is included at the end of this report.

## II. FACTS

### A. Purpose

The Fox Creek Open Channel exists for three basic purposes:

1. To serve as an outlet to the river for Grosse Pointe Park's storm water pumpage.
2. To serve as a boat canal for the properties on the east side of Ashland Avenue between Jefferson Avenue and Harbor Island and to serve as access to other boat canals in the area.
3. To serve as an stand-by outlet for the storm and sanitary flow from Grosse Pointe, Grosse Pointe Farms, East Detroit, Roseville, St. Clair Shores, Detroit, and other northeastern suburbs in the event Detroit's sewer system is overloaded.

To the best of our knowledge, no such emergency has occurred since 1955.

### B. Water Levels

Through nature's cycles, the water levels at the mouth of Fox Creek will vary from elev. 90.93 to elev. 97.27 (City Datum). At the present time the elev. is near 96.7. When Grosse Pointe Park's stormwater pumping station is discharging, the levels rise an additional 2 to 3 feet.

## II. FACTS (Continued)

### B. Water Levels (Continued)

Possibly contributing to the higher levels is the fact that the American Falls at Niagara have been closed and that Lake Superior is emptying into Lake Huron at a high rate. However, the U. S. Corps of Engineers reports that the cost benefit relationship does not justify attempting to restrain water levels at Detroit.

### C. Responsibilities

1. A 1938 agreement between Detroit and Grosse Pointe Park establishes that Detroit is to maintain the Fox Creek channel adequate for Grosse Pointe Park's foreseeable needs for storm water discharge up to 1050 cfs. The agreement also acknowledges Grosse Pointe Park's right to use the channel for such purposes.
2. 1938 and 1941 agreements between Detroit and Grosse Pointe and between Detroit and Grosse Pointe Farms establish that Grosse Pointe and Grosse Pointe Farms may transmit their sanitary wastes and runoff from very small storms through the Fox Creek Enclosure into the Detroit system. Grosse Pointe and Grosse Pointe Farms are obligated to pay for treatment of flow equivalent to their water consumption at current rates and to pay for the extra cost of pumping the runoff from small storms at 1933 prices. All runoff from larger storms was to be transmitted through the Fox Creek open channel under whatever conditions existed therein.
3. A February 5, 1952, Detroit Common Council ordinance, as amended, established that the private property owners along the west bank were responsible for providing a dike on their property adequate for protection against spillages under all conditions. If they failed to comply, the City Engineer was responsible for completing the work at the expense of the property owners. (Copy of ordinance attached.)

II. FACTS (Continued)

C. Responsibilities (Continued)

3. (Continued)

It is the dikes on the west bank which are being over-topped and these are virtually all on private property.

4. A September 13, 1966, Common Council resolution established that the Department of Public Works is responsible for maintaining the physical condition of the channel including adequate dikes on all banks not on private property. (Copy of Resolution attached.) The City owned embankment is primarily on the east side of the canal and is in generally good condition.

D. Voluntary Actions and Services

The City has been providing numerous voluntary services since 1947 without compensation.

1. Since completion of the Fox Creek Relief Sewer in 1948, Detroit has been handling all runoff from the Fox Creek Enclosure (from even the most major storms) from Grosse Pointe and Grosse Pointe Farms through the Conners Pumping Station instead of by gravity through the Fox Creek open channel. Since 1955 this service has been further improved by the addition of the Freud Pumping Station.

This service has been provided without compensation from the communities being served. The only benefit to the Detroit regional area has been the protection of its Belle Isle Water supply intake by diversion of the polluted waters to a more downstream location on the river.



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II. FACTS (Continued)

D. Voluntary Actions and Services (Continued)

2. Since about the same time, Detroit has been periodically backflushing the Fox Creek open channel into the Detroit sewer system for the purpose of replacing stagnant water with fresh river water primarily to satisfy the esthetic values of residents along the open channel. The use of Fox Creek open channel by Grosse Pointe Park as a storm outfall adds to the necessity for periodic backflushing since the overflow from Grosse Pointe Park is not distinguishable from ordinary sewage, especially during the first flush of a storm. All water backflushed out of the creek is given complete treatment at the wastewater plant. There has been no compensation from the beneficiaries of the backflushing.
3. In 1964, Detroit deeded filled submerged lands at the foot of Alter Road to Grosse Pointe Park in exchange for permission to construct a sewer in tunnel under certain Grosse Pointe Park streets. It was believed the sewer could be built through Grosse Pointe Park at less cost than along Mack Avenue, which was an alternate route. The low bidder elected to build the sewer along the Mack route at no additional cost to the City, which would indicate that both routes were of about equal cost.  
  
In that the estimated difference was about \$800,000, we have to assume Detroit appears to be entitled to a favor of equivalent value from Grosse Pointe Park. (Copies of the Detroit Common Council action of August 20, 1963, and of December 29, 1964, are attached.)
4. Just being placed into operation is a \$2,000,000 complex of computers, sewer level gages, remote pumping station controls and other devices to aid in regulating the flow of sewage and storm flow for the benefit of Detroiters and others connected to the system.

II. FACTS (Continued)

E. Changed Conditions

Conditions relative to Fox Creek prevalent in 1938 have materially changed.

1. In 1948, Detroit constructed the so-called Fox Creek Relief sewer at its own expense. It thereby abandoned use of all but a small portion of the Fox Creek Enclosure. Detroit was in no way compensated by Grosse Pointe and Grosse Pointe Farms for allowing this capacity to revert to them. Subsequently, Grosse Pointe and Grosse Pointe Farms have utilized some of this capacity themselves and have leased a portion to communities in Southeast Macomb County. Further, Detroit has never exercised its option to facilities and outfalls in the Grosse Pointe communities, nor is it utilizing the Fox Creek open channel as an outlet.
2. By construction of the Freud Pumping Station, Detroit has (by alternative means) met its commitment to enlarge the Fox Creek open channel from 2000 cfs to 4000 cfs. Thus further enlargement of Fox Creek is not required or contemplated. By construction of the Freud Pumping Station, Detroit is providing a degree of service to Grosse Pointe, Grosse Pointe Farms, and their leasees, far in excess of the services which could be obtained through a 2000 or a 4000 cfs gravity flow open channel.
3. Whereas pollution control of stormwater overflows formerly consisted of diverting these wastes around water intakes and the like, new Federal and State laws make it a requirement that the wastes in stormwater runoff overflows must be removed and reduced by 1977 regardless of the point of discharge into the receiving streams.

II. FACTS (Continued)

E. Changed Conditions (Continued)

3. (Continued)

Thus constructing sewers only for the purpose of circumventing certain areas is no longer justified. Therefore, Grosse Pointe Park will be expected to install the stormwater overflow improvement facilities necessary to maintain the required quality of Fox Creek or contract with DMWS or others to have the service performed for them.

F. Litigation

Property owners abutting canals on the lower east side are suing the City of Detroit for nullification of assessments for the cost of dredging materials from the canals, primarily because they contend the need for dredging was not a result of their actions but rather the result of pollution. One million dollars in damages is also asked. This court action, which was started on May 17, 1965, and is to come to trial soon, has complicated any action toward resolving the basic problem of the Fox Creek area to date.

III. ACTION REQUIRED

The recommended course of action for the near future includes the following:

A. Enforce the "1952 Dike Ordinance"

All private property owners should be compelled to comply with its requirements. Those failing to provide dikes to an elevation established by the City Engineer would have such work performed by the City Engineer with the costs therefor billed to the property owners.

Much of the area west of Fox Creek and south of Jefferson Avenue is below river level. Hundreds of homes in that area could have up to 4 feet of water in their living rooms if the dikes are not immediately made adequate. Equally as important - the overflow from the dikes is capable of flooding out the sewer system for miles around.

III. ACTION REQUIRED (Continued)

B. Charge Grosse Pointe Park

Inform Grosse Pointe Park that we will continue to backflush Fox Creek after every event of discharge by their pumps as well as once weekly during dry weather and that they will henceforth be billed quarterly for the cost of backflushing necessitated by their overflow. Complete records of each pumpage event are also to be provided by Grosse Pointe Park.

C. Charge Grosse Pointe, Grosse Pointe Farms and Others

Inform Grosse Pointe, Grosse Pointe Farms and the Wayne County Road and Drain Commissions that we henceforth will be unable to handle their storm flow from the northeastern suburbs without adequate compensation. They are to be given a choice of reverting to the terms of the original agreement whereunder regulators would be installed and set at the Fox Creek Backwater Gate structure which would force larger storms to exit by gravity out of the Fox Creek open channel - or adequately reimburse us for the pumping services as they are now receiving. In the absence of any request to revert to the originally agreed form of service, they are to be billed for services as now rendered.

D. Initiate Corrective Action by Grosse Pointe Park

In order to initiate action toward determining what long term provisions are to be made by Grosse Pointe Park relative to the enhancement of the quality of its stormwater overflows, the Michigan Water Resources Commission is to be asked to begin appropriate action toward obtaining a decision from Grosse Pointe Park on what means and methods they will use to resolve their forthcoming obligations. The Standards which must be met are provided for in the attached copy of a letter from the WRC dated May 28, 1969.

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III. ACTION REQUIRED (Continued)

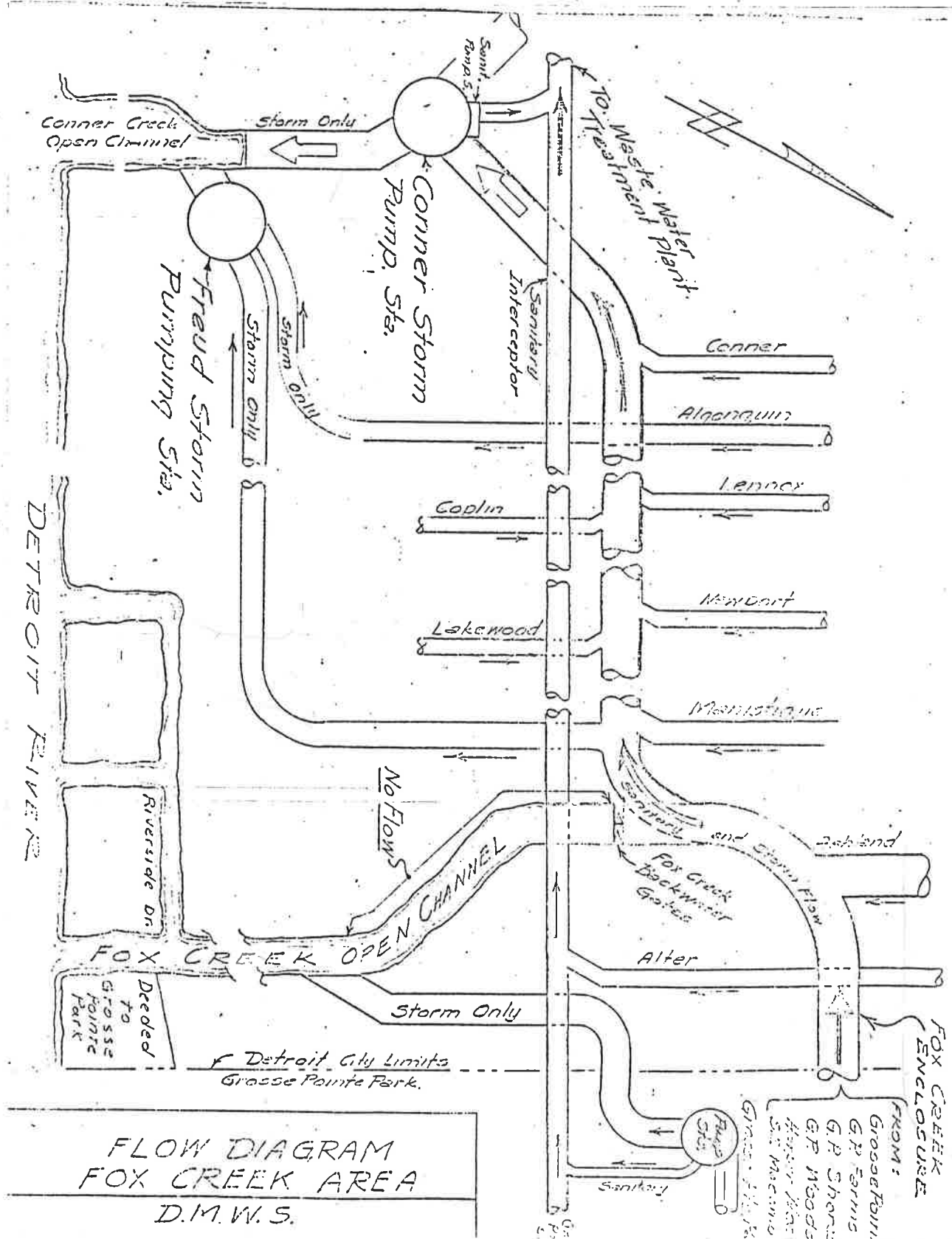
E. Initiate Corrective Action by Fox Creek Enclosure Users

A meeting is to be held by all users of the Fox Creek Enclosure to begin the development of long term programs and plans for the provision of adequate treatment and capacity for storm and sanitary flows expected to be generated by the communities involved.

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APPENDIX

- Exhibit 1 - Flow Diagram for the Fox Creek Area
- 2 - February 5, 1952, Dike Ordinance
- 3 - February 10, 1953, Dike Ordinance  
Amendment
- 4 - September 13, 1966, Resolution assigning  
Fox Creek maintenance to DFW
- 5 - August 20, 1963, Common Council authori-  
zation to deed Detroit lands to Grosse  
Pointe Park
- 6 - December 29, 1964, Common Council approval  
of the above transfer
- 7 - May 28, 1969, letter from WRC on Fox Creek  
Water Quality Standards



FLOW DIAGRAM  
 FOX CREEK AREA  
 D.M.W.S.

Department of Public Works  
 January 22, 1933.  
 Honorable Common Council:  
 Gentlemen—The Corporation Counsel has stated that the recently passed Charter Amendment, pertaining to the building of permanent dikes along the canals or river front by assessment, will not permit us to build these dikes for some time. It was, therefore, thought desirable to propose an ordinance that would allow the City to control the existing dirt dikes until such time as permanent sea walls might be built.

The attached ordinance, which I recommend be passed by your Honorable Body, has been prepared by the Corporation Counsel office and the City Engineer. Under this Ordinance, the property owner cannot alter in any way the existing dikes until such time as they are replaced with permanent walls.

The City Engineer will examine these dikes periodically and, if the property owner has not maintained the dike, the City will repair it and collect the cost of repairs from the property owner.

It is desirable that this Ordinance be passed at an early date so that we can make any repairs to the dikes before the spring flood period.

Respectfully submitted,  
 CARL D. WARNER,  
 Commissioner.

Corporation Counsel  
 February 3, 1933.  
 Honorable Common Council:  
 Gentlemen—We acknowledge receipt of your letter of January 26th requesting an opinion from this office as to whether the Ordinance revision proposed by the Department of Public Works, giving the City Control over existing dykes, is not already adequately covered by Ordinance No. 618-E.

Ordinance No. 618-E grants the City the authority to construct dykes and the like in an emergency, but does not provide for the ways and means of maintaining such structures. The purpose of this revision is to combine the authority to construct and maintain the dykes once so constructed. The amendment adds to Ordinance No. 618-E the following:

"No barrier, dike or embankment once so constructed shall be altered or removed without the consent, in writing, of the City Engineer. Each riparian owner shall maintain said structures at his own expense. The City Engineer may from time to time examine such structures, and shall give notice to any owner as aforesaid of failure to maintain. If, after notice, said owner fails to maintain as required, the Commissioner of Public Works shall enter upon said premises and shall reinforce or replace said defective barriers, dikes or embankments. Such reinforcement or replacement shall be at the expense of the said riparian owner and shall be collectible by an action in assumpsit."

After discussing the problem with representative of the Department of Public Works, we are of the opinion that Ordinance No. 618-E does not cover the matter adequately and additional authority is needed to maintain

the dykes already in existence.  
 Respectfully submitted,  
 WALTER E. VASHAK,  
 Assistant Corporation Counsel.

Approved:  
 PAUL T. DWYER,  
 Corporation Counsel.

By Councilman Van Antwerp:  
 AN ORDINANCE to amend Section 10 of Chapter 127 of the Compiled Ordinances of the City of Detroit of 1915.

IT IS HEREBY ORDAINED BY THE PEOPLE OF THE CITY OF DETROIT:

Section 1. That Section 10 of Chapter 127 of the Compiled Ordinances of the City of Detroit of 1915 be and the same is hereby amended to read as follows:

Sec. 10. Whenever the City Engineer finds that because of the rising of the level of the waters in canals, rivers, navigable streams or similar places in the City of Detroit, the safety, health, property and general welfare of the public is endangered by floodwaters and that immediate action is necessary to protect such public interests, he shall notify the riparian owners thereon, at the address given in the last assessment roll, and shall also post a notice on every lot, or building, or structure thereon, to immediately provide adequate barriers, dikes or other embankments to protect against the overflow of floodwaters. Should any such owner fail to so provide, the Commissioner of Public Works, with the sanction of the Common Council, shall proceed to provide such barriers, dikes or embankments. NO BARRIER, DIKE OR EMBANKMENT ONCE SO CONSTRUCTED SHALL BE ALTERED OR REMOVED WITHOUT THE CONSENT, IN WRITING, OF THE CITY ENGINEER. EACH RIPARIAN OWNER SHALL MAINTAIN SAID STRUCTURES AT HIS OWN EXPENSE. THE CITY ENGINEER MAY FROM TIME TO TIME EXAMINE SUCH STRUCTURES AND SHALL GIVE NOTICE TO ANY OWNER AS AFORESAID OF FAILURE TO MAINTAIN. IF, AFTER NOTICE, SAID OWNER FAILS TO MAINTAIN AS REQUIRED, THE COMMISSIONER OF PUBLIC WORKS SHALL ENTER UPON SAID PREMISES AND SHALL REINFORCE OR REPLACE SAID DEFECTIVE BARRIERS, DIKES OR EMBANKMENTS. SUCH REINFORCEMENT OR REPLACEMENT SHALL BE AT THE EXPENSE OF THE SAID RIPARIAN OWNER AND SHALL BE COLLECTIBLE BY AN ACTION IN ASSUMPSIT.

Sec. 2. All ordinances or parts of ordinances in conflict herewith are hereby repealed.

Sec. 3. This ordinance is declared necessary for the preservation of the public peace, health, safety and welfare and is hereby given immediate effect.

Approved as to Form:  
 PAUL T. DWYER,  
 Corporation Counsel.  
 G. R. THOMPSON,  
 Read twice by title, ordered printed and laid on the table.

2-17-33  
 Taken From the Table  
 Councilman Van Antwerp would like from the table an ordinance to amend Section 10, Chapter 127, Compiled Ordinances, relating to the construction, maintenance, etc., of dikes, barricades, etc. laid on the table February 16, 1933 (JCC p. 27), which motion prevailed.

The Ordinance was passed on the order of the day.

THIRD READING OF ORDINANCE.  
 The title to the ordinance was read a third time.

The ordinance was then read.

The question is on the ordinance law passed. The ordinance was



possibility that a great portion of the property below Jefferson Avenue, between Fox Creek and Conner Creek, might be covered with two or three feet of water. Before entering on any property against the will of the property owner, the department will present the plan to your Honorable Body for your approval.

It is my recommendation that this ordinance be given immediate effect, as we cannot afford to lose any time in meeting this emergency.

Respectfully submitted,  
CARL D. WARNER,  
Commissioner.

By Councilman Oakman:  
AN ORDINANCE to amend Chapter 127 of the Compiled Ordinances of the City of Detroit of 1945 by adding a new section thereto to be known as Section 10.

IT IS HEREBY ORDAINED BY THE PEOPLE OF THE CITY OF DETROIT:

Section 1. That Chapter 127 of the Compiled Ordinances of the City of Detroit of 1945, be and the same is hereby amended by adding a new section thereto to be known as Section 10, reading as follows:

Sec. 10. Whenever the City Engineer finds that because of the rising of the level of the waters in canals, rivers, navigable streams or similar places in the City of Detroit, the safety, health, property and general welfare of the public is endangered by floodwaters and that immediate action is necessary to protect such public interests, he shall notify the riparian owners thereon, at the address given in the last assessment roll, and shall also post a notice on every lot, or building, or structure thereon, to immediately provide adequate barriers, dikes or other embankments to protect against the overflow of floodwaters. Should any such owner fail to so provide, the Commissioner of Public Works, with the sanction of the Common Council, shall proceed to provide such barriers, dikes or embankments.

Sec. 2. All ordinances or parts of ordinances in conflict herewith are hereby repealed only to the extent necessary to give this ordinance full force and effect.

Sec. 3. Should any section, paragraph or provision of this ordinance be declared invalid, the same shall not affect the validity of the ordinance as a whole or any part thereof other than the part so declared invalid.

Sec. 4. This ordinance is declared necessary for the preservation of the public peace, health and safety and is hereby given immediate effect.

Approved:  
PAUL T. DWYER,  
Acting Corporation Counsel.  
Read twice by title.

Councilman Oakman then moved that inasmuch as this ordinance was an emergency measure, it be placed on the order of third reading.

THIRD READING OF ORDINANCE.  
The title to the ordinance was read a third time.

The ordinance was then read. The question being, "Shall this ordinance now pass?" The ordinance was passed, a majority of the councilmen present voting therefor as follows:

Adopted as follows:  
Yeas—Councilmen Connor, Garlick, Oakman, Rogell, Smith, Van Antwerp, and the President—7.  
Nays—None.

Title to the ordinance was confirmed.

Reconsideration:

Councilman Oakman moved to reconsider the vote by which the ordinance was passed.

Councilman Garlick moved to suspend Rule 23 for the purpose of indefinitely postponing the motion to reconsider, which motion prevailed as follows:

Yeas—Councilmen Connor, Garlick, Oakman, Rogell, Smith, Van Antwerp, and the President—7.

Department of Public Works  
January 31, 1952.

Honorable Common Council:

Gentlemen—Submitted herewith is an amendment to Chapter 127 of the Compiled Ordinances of 1945, as prepared and approved by the Corporation Council.

This amendment, designated as Section 10 of Chapter 127, would allow the Department of Public Works to build necessary dikes or embankments to protect against the overflow of flood waters along the River or canals inside the City. It is predicted that the river level will be at an all time high this Spring, and it is probable that the present banks of Fox Creek and adjoining canals will overflow unless existing dikes are raised.

For the past thirty days we have had to pump water from Fox Creek in order to keep the level down to a point where it would not overflow the banks. We have now raised the level of the banks at the lowest spots so that the pump can be stopped temporarily. We will continue to raise the level of these dikes wherever the property owners want us to come on their property. In some cases the property owners have refused to allow us to build the dikes.

COMMON COUNCIL RESOLUTION RELATIVE TO THE MAINTENANCE  
OF EARTH DYKES ALONG FOX CREEK OPEN CHANNEL

91

1966

Involved. It has been determined that the Department of Public Works is best equipped by experience and available facilities to undertake the immediate maintenance required.

Now, Therefore, Be It Resolved, that the responsibility for the maintenance of the dyke abutting the westerly pavement of Alter Road, south of Jefferson Avenue, including cutting of grass and/or control of weeds, and for the maintenance of the fence located upon the dyke, and for necessary repairs to the east retaining wall of Fox Creek, be and the same is hereby assigned to the Department of Public Works; and be it further

Resolved, That the Department of Public Works is hereby requested to make a study of all work required on the aforementioned structures and the estimated cost thereof and submit a written report to this Body containing its recommendations.

Adopted as follows:

Yeas — Councilmen Beck, Brickley, Connor, Hood, Miriani, Ravitz, Van Antwerp and President Carey—8.

Nays—None.

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Corporation Council  
September 7, 1966.

Honorable Common Council:  
Re: Fox Creek-Alter Road Area.  
Gentlemen—Forwarded herewith, in accordance with your request, is a resolution allocating departmental responsibility in the Fox Creek-Alter Road Area.

Respectfully submitted,  
HAROLD HOOD,  
Asst. Corporation Counsel.

Approved:  
ROBERT REESE,  
Corporation Counsel.

By Councilman Beck:  
Whereas, the question of departmental responsibility for the maintenance of the City structures and facilities in the Fox Creek-Alter Road area has come before this Body; and  
Whereas, after a full discussion with representatives of all departments in-

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Department of Public Works  
August 16, 1963.

Honorable Common Council:  
Gentlemen—On January 24, 1961, the City of Grosse Pointe Park petitioned the Common Council of the City of Detroit for approval to allow the City of Grosse Pointe Park to make application to the State Department of Conservation for purchase of property referred to as "Fill Adjoining Alter Road between Windmill Pointe Drive and the U.S. Harbor Line" (Petition No. 9477).

At that time the title to the property rested in the Department of Public Works, inasmuch as we had placed a fill at the extension of Alter Road right-of-way for the purpose of carrying Fox Creek drainage canal out into deep water for better circulation. The petition was denied at that time upon the recommendation of the various departments interested in this particular piece of property.

Several meetings have been held recently between our own city officials and department staffs, as well as with officials of the Grosse Pointe Park, and we now recommend that their request for the right to acquire this property be approved. Grosse Pointe Park agrees that they will grant us an easement for future use of the property adjacent to Fox Creek from Windmill Pointe Drive to the harbor line so that we may have access to Fox Creek if necessary. Grosse Pointe Park has also agreed to insure the interest of the City of Detroit in Alter Road.

We make this recommendation for the following reasons:

(1) It is important that we have a good relationship with Grosse Pointe Park and our surrounding neighbors. Their request appears to be reasonable. The Department of Public Works has been allowed to construct sewers through their city to serve Detroit with their complete cooperation and without any charge for easement. Recently Grosse Pointe Park, upon the request of the City of Detroit, spent considerable money in improving their storm water outlet to Fox Creek in order to clean up the pollution in the creek.

(2) We recently asked Grosse Pointe Park to sign an agreement whereby we would be allowed to build a major relief sewer serving a large section of the east side of Detroit, which should be constructed through Grosse Pointe Park. This sewer would in no way serve the city of Grosse Pointe Park. The Mayor and Council of Grosse Pointe Park state that they are anxious to cooperate with us fully but feel that we have not shown the same spirit of cooperation by denying their petition. Unless they are willing to sign the agreement, the city will have to build this sewer around Grosse Pointe Park which would cost us an additional \$800,000.

(3) The Parks and Recreation Commission reviewed the subject at their formal meeting on July 25, 1963, and unanimously approved granting the request to acquire this property with the understanding that they would be able to reserve an easement for future use.

If this request is reconsidered and granted, the Corporation Counsel will prepare the necessary papers to assure that the interests of the City of Detroit are protected.

Respectfully submitted,

GLENN C. RICHARDS,  
Commissioner.

HOWARD CROWELL,  
General Superintendent,  
Dept. of Parks and Recreation.

ROBERT REEF,  
Corporation Counsel.

FRANCIS P. BENNETT,  
for CHARLES A. BLESSING,

Director, City Plan Commission.

By Councilman Patrick:  
Resolved, That the Corporation Counsel be and he is hereby authorized, and directed to prepare the necessary agreement in accordance with the foregoing joint recommendation relative to the petition of the City of Grosse Pointe Park.

Adopted as follows:

74.

*Confirmation of agreement with  
Grosse Pointe Park for sewer line  
through Grosse Pointe Park  
C.C. 12-27-64*

Corporation Counsel

December 21, 1964.

Honorable Common Council:

Re: Alter Road Property and Mack Avenue Relief Sewer - Grosse Pointe Park.

Gentlemen—Pursuant to your Resolution of August 29, 1963, J.C.C. pages 2171-72, our office has prepared the necessary agreements to provide for a sewer right of way through Grosse Pointe Park and to transfer city property at the foot of Alter Road to the City of Grosse Pointe Park.

The three agreements were executed by the City of Grosse Pointe Park on December 8, 1964. The Mack Avenue Relief Sewer right of way agreement was executed by the Commissioner of Public Works on December 17, 1964, and on the same date, the President of the Parks and Recreation Commission executed the "Permit for Occupancy and Riparian Owner's Consent to Application for Deed for Submerged Lands" as well as the agreement providing for Detroit's future access to the property and indemnifying the city from any loss arising out of this transfer.

All agreements have been approved by the Corporation Counsel.

We therefore submit the above contracts for confirmation by your Honorable Body.

Respectfully submitted,  
WILLIAM DIETRICH,  
Asst. Corporation Counsel.

Approved:  
ROBERT REESE,  
Corporation Counsel.

By Councilman Ravitz:  
Resolved, That the contracts listed in the foregoing communication be and hereby are confirmed.

Adopted as follows:  
Yeas - Councilmen Beck, Brickley, Poudexter, Rogell, Van Antwerp, Wiersback and President Carey - 7.  
Nays - Councilmen Connor and Ravitz - 2.

STATE OF MICHIGAN



GEORGE ROMNEY, Governor

DEPARTMENT OF NATURAL RESOURCES  
STEVENS T. MASON BUILDING, LANSING, MICHIGAN 48926

RALPH A. MACMULLAN, Director

May 28, 1969

NATURAL RESOURCES COMMISSION

HARRY H. WHITELEY  
Chairman

CARL T. JOHNSON

E. M. LAITALA

ROBERT C. McLAUGHLIN

AUGUST SCHOLLE

ROBERT J. FURLONG  
Secretary to the Commission

WATER RESOURCES COMMISSION

JOHN E. VOGT  
Chairman

STANLEY QUACKENBUSH  
Vice Chairman

GERALD E. EDDY

JOHN P. WOODFORD

LYNN F. BALDWIN

JIM GILMORE

GEORGE F. LIDDLE

Mr. D. Suhre  
Head Wastewater Engineer  
Detroit Metropolitan Wastewater Services  
735 Randolph Street  
Detroit, Michigan 48226

Dear Mr. Suhre:

In answer to your recent letter dated May 20, 1969, I am including the following information:

1. Intrastate Water Quality Standards apply to the waters of Fox Creek.
2. In accordance with these standards, use designation areas were set for the waters of Fox Creek on March 20, 1969.

These waters will be protected for:

- a. Partial Body Contact
- b. Industrial Water Supply
- c. Intolerant Fish - Warmwater Species
- d. Agricultural Use
- e. Commercial and Other Uses

Multiple Use Designations

Where the waters are classified under more than one designated water use (as Fox Creek) it is intended that the most restricted individual standards of designated water uses shall be adhered to. Further, the use designations adopted by the Water Resources Commission are, in all cases, minimal and are not to be interpreted as a license to cause injuries declared to be unlawful by Act 245, Public Acts of 1929, as amended, or to do any other unlawful act.

CITY OF DETROIT  
DEPT. OF WATER SUPPLY  
RECEIVED  
MAY 33 9 58 AM '69  
DIV. OF ENGINEERING



Mr. D. Suhre

-2-

May 28, 1969

3. These same standards and their according use designation areas also apply to those canals which interconnect Fox Creek and the Detroit River.
4. Combined flow discharges must be corrected by June 1, 1977.
5. The Bureau of Water Management and the Soils Department of Michigan State University are now in the process of conducting a study designed to determine if nutrients in the soil are locked and whether there is substantial nutrient loss in runoff. Specific answers concerning runoff and the corresponding nutrient problems should be available soon.

Enclosed you will find a copy of our most recent publication entitled, "Use Designation Areas for Michigan's Intrastate Water Quality Standards". For any further information please feel free to contact our office at any time.

Very truly yours,

BUREAU OF WATER MANAGEMENT

*F. B. Frost*  
F. B. Frost  
Chief Engineer

JH:ms

Enclosure

CITY OF DETROIT  
DEPT. OF WATER SUPPLY  
RECEIVED  
MAY 33 9 58 AM '69  
DIV. OF ENGINEERING



CRH

Finance Department  
Contract Compliance  
106 City-County Building  
Detroit, Michigan 48226  
(313) 224-1759

Coleman A. Young, Mayor  
City of Detroit

April 16, 1986

Mr. Robert Bogerty  
O'Laughlin Construction Company  
24460 Novi Road  
Novi, Michigan 48050

Re: Executive Order No. 22 Clearance  
Community and Economic Development Department  
Flooding of Areas in the City of Detroit  
Contract No. - .86-027

Dear Mr. Bogerty:

The Finance Department Contract Compliance Division is in receipt of the Construction/Demolition Worksite Employee Roster(s) and the accompanying Affidavit of Residency, Minority Status and Sex Verification for the project referenced above.

We have reviewed said documents for compliance with the requirements of Executive Order No. 22, which mandates that for all worker hours performed on construction projects, at least fifty percent (50%) be performed by bona fide Detroit residents, twenty-five percent (25%) by minorities, and five percent (5%) by women.

It has been determined that your reported workforce hours meet these requirements, and that an Executive Order No. 22 Clearance may be granted.

Clearances are granted based upon the commitment from your company that it is able to and will continue to comply with all Executive Order No. 22 requirements during the entire term of the contract. These requirements are incorporated by specific language and by reference in your contract with the City of Detroit, and we must therefore advise that any failure to meet these

Bella I. Marshall  
Finance Director

requirements shall constitute a substantive breach of contract, as a result of which the City may exercise those rights provided to it under the contract and by law. Additionally, performance in regard to this substantive contract provision may be used to determine responsibility in connection with future contract awards.

If subcontractors are to be utilized on this project, prior to the start of work, the Construction/Demolition Worksite Employee Roster(s) and the Affidavit of Residency, Minority Status, and Sex Verification must be completed and notarized by your company and submitted to the Contract Compliance Division.

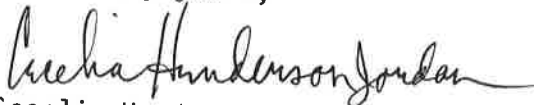
Roster and Affidavit forms cannot be accepted from a subcontractor unless Contract Compliance has received a written statement from your company authorizing that subcontractor to act on behalf of your company in the submission of the forms. In the event such a written authorization is submitted, the Rosters and Affidavits submitted by any authorized subcontractor(s) will be contractually binding upon your company.

The Roster and Affidavit must also be submitted if there is ever a change in any of the workers assigned to this project.

As an additional requirement, please submit a copy of all payroll reports generated by your company for this project to the Contract Compliance Division. These payroll reports must account for all workers assigned to this project.

Your cooperation in this matter is appreciated.

Very truly yours,



Cecelia Henderson Jordan  
Chief, Contract Compliance Division

CHJ/SW/rk

cc: Clyde Hopkins  
H. Jean Powell



FINANCE DEPARTMENT  
CONTRACT COMPLIANCE

EXECUTIVE ORDER NO. 22 CLEARANCE

DATE: April 16, 1986

TO: Clyde Hopkins  
City Engineering Department

FROM: Cecelia Henderson Jordan *C Henderson Jordan*  
Chief, Contract Compliance Division  
Finance Department

RE: Project - Flooding of Areas in the City of Detroit  
Contractor - O'Laughlin Construction Company  
File/Contract No(s). - 86-027

This is your notice of the Executive Order No. 22 Clearance for this project.

Please insure that Contract Compliance receives copies of all invoices and payrolls submitted by the Contractor to facilitate our monitoring of the project for continued Executive Order No. 22 compliance.

Your cooperation is appreciated.

cc: Purchasing Division  
H. Jean Powell

CHJ/rk



K.E.

*City Engineering Department  
Ninth Floor Cadillac Tower  
Detroit, Michigan 48226*

*Coleman A. Young, Mayor  
City of Detroit*

June 25, 1986

HONORABLE CITY COUNCIL

RE: Floodwater Protection  
Lower East Side, Alter Road at River  
Request for Additional Funds

In response to the request of Mr. Conley Abrams, Director of the Department of Public Works, your Honorable Body on March 20, 1986, approved the transfer of one hundred and fifty thousand dollars (\$150,000.00) from Appropriation No. 94-0388 (Repayment of Short Term Borrowing) to Appropriation No. 22-0048 (Special Projects). These funds along with \$40,000.00 from the State of Michigan, were to be used to erect and construct barriers, dikes or embankments and to take other measures as necessary to control the flood waters in the City of Detroit.

On April 22, 1986, your Honorable Body was advised that it was estimated that an additional amount of fifty thousand dollars (\$50,000.00) was required to perform further work to control flood conditions. Your Honorable Body then authorized the transfer of \$50,000.00 to Appropriation No. 22-0048 (Special Projects). Thus, the total project funds at present are \$240,000.00 including certain costs of the Department of Public Works estimated at \$15,000.00 which leaves \$225,000.00 for construction work.

In order to expedite the time schedule to permit immediate construction activity to control and abate flooding conditions, it was necessary to utilize the emergency provision of the City of Detroit Code, Section 21-3-6(B) which provides for waiver of competitive bids when "Public exigencies require the immediate delivery of the articles or performance of the service." By the same above-referenced section of the City Code, the Finance Department Director, Bella Marshall, as of March 21, 1986, authorized a Special Finance Directive to process purchase requisitions on an emergency basis. Under the authority of the executed directive, this Department on March 21, 1986, entered into an interim agreement with O'Laughlin Construction Company to perform work for the protection of health, safety and welfare of the public.

O'Laughlin Construction Company commenced work on Monday, March 24, 1986 and as of June 24, 1986 has made substantial progress in providing steel sheet piling and placing clay dikes and sandbag barriers to control flooding. The payment for the work completed as of June 2, 1986, is \$205,320.00. It is estimated that the funds required to complete the work since June 2, 1986 is now observed as \$220,000.00 which would result in a total contract cost of \$425,000.00 (\$205,320 plus \$220,000 of additional work). Since the Department of Public Works was allocated \$15,000.00 of the \$240,000.00 for materials and supplies, present funds available for the contract are \$225,000.00, resulting in a shortage of \$200,000.00.

The present expenditure of \$205,320.00 was used for the installation of sheet piling and clay dikes to control and stop flooding from what we deemed "major" leakage and seepage observed in March 1986 through the existing dikes and sandbag barriers. This construction work has been very effective in stopping those conditions observed in March, April and May. As conditions continue to change along the channels, new leaks and seepage planes have developed resulting from the water pressure on the existing dikes and sandbag barriers during the past two months. The continuation of work is necessary to control these new sources of flooding. The amount of money we are now requesting will correct the current observed conditions of leakage and seepage of channel waters.

To continue the flood control measures such as steel sheet piling and clay dikes and to cover any unforeseen developments, it is requested that your Honorable City Council transfer an additional sum of two hundred thousand dollars (\$200,000.00) to Appropriation No. 22-0048 (Special Projects).

As the work progresses, you will continue to be informed of the steps taken by this Department to ensure control and abatement of flooding for the public safety, health and welfare. Your continuing cooperation is appreciated in the resolution of this condition.

Respectfully submitted,



Clyde R. Hopkins  
Director

CRH/JVW:mmm

cc: F. Martin, Mayor's Office  
B. Marshall, Finance Dept.  
J. Kanters, Finance Dept.  
C. Abrams, D.P.W.  
D. Pailen, Law Dept.  
K. Johnson, Civil Defense  
O. Collins, Purchasing Div.  
R. Kueber, Purchasing Div.  
J. Messner, Budget Dept.  
E. Kennedy, City Engineering Dept.

bcc: J. Crane  
R. Ellena ✓  
R. Karber  
J. Wickey

**City of Detroit**  
**INTER-OFFICE CORRESPONDENCE**

TO: Clyde R. Hopkins  
Director

DATE May 5, 1986

FROM: John V. Wickey *JW*

SUBJECT: Flood Control and Abatement Contract  
O'Laughlin Construction Co.  
Cost as of May 2, 1986 -  
(86-057)

At the close of work on May 2, 1986 the total Cost of the Work is \$197,703.44. The work will continue with a reduced staff during the week beginning May 4, 1986.

The Cost of Work for O'Laughlin's Contract is not to exceed \$225,000.00.

JVW:mjs

cc: E. Kennedy  
N. Kawwas  
✓ R. Ellena  
R. Karber  
J. Crane  
W. Rankin

**CONTRACT SET-UP AND DESCRIPTION**

COPY NO. 1

	AGENCY	CONTRACT NO.
270 1	22 8	_ _ _ _ _ _ _  10

City Engineering Dept. - Public Works  
AGENCY NAME

VENDOR NO.	CALENDAR DATE	REPORT	CONTRACT AMOUNT *
1	MO. DAY YR.	DISTRIBUTION NO.	
16	_ _ _ _ _ _ _	_ _ _ _ _ _ _	425,000.00
	17 22 24 26 28	44	\$450,000.00
			54

CONTRACT DESCRIPTION

F L O O D A B A T E M E N T C O N T R O L

EXPIRATION: 12-31-86

VENDOR NAME AND ADDRESS

O'Laughlin Construction Company  
24460 Novi Road  
Novi, MI 48050

Auth. J.C.C. \_\_\_\_\_ Page \_\_\_\_\_

Partial Payments Auth. By: \_\_\_\_\_

Auth. Required for Final Payment: \_\_\_\_\_

CC \_\_\_\_\_ Other \_\_\_\_\_

Final Payment Approved J.C.C. \_\_\_\_\_

Workman's Comp. Exp. \_\_\_\_\_ P. L. Ins. Exp. \_\_\_\_\_ P. D. Ins. Exp. \_\_\_\_\_

Other Insurance: \_\_\_\_\_ Expiration \_\_\_\_\_

Start Date \_\_\_\_\_ No. Days \_\_\_\_\_ Completion Date \_\_\_\_\_

Liquidated Damages: \$ \_\_\_\_\_ Per \_\_\_\_\_

16	17	20	23	27	29	31	35	37	44	54
TYPE	LINE CODE	AGENCY NO.	COST CENTER	EFFECTIVE DATE		OBJECT	OBJ. DET.	INTERNAL DISTRIBUTION	AMOUNT	
				MO.	YR.					
2	01	_	_ _ _ _	_	_	_ _ _ _	_	_ _ _ _	_ _ _ _	_
2	02	_	_ _ _ _	_	_	_ _ _ _	_	_ _ _ _	_ _ _ _	_
2	03	_	_ _ _ _	_	_	_ _ _ _	_	_ _ _ _	_ _ _ _	_
2	04	_	_ _ _ _	_	_	_ _ _ _	_	_ _ _ _	_ _ _ _	_
2	05	_	_ _ _ _	_	_	_ _ _ _	_	_ _ _ _	_ _ _ _	_
* TOTAL MUST EQUAL CONTRACT AMOUNT									\$450,000	00

Prepared by \_\_\_\_\_ Date \_\_\_\_\_

Approved by \_\_\_\_\_ Date \_\_\_\_\_ Title \_\_\_\_\_



*City Engineering Department  
Ninth Floor Cadillac Tower  
Detroit, Michigan 48226*

July 15, 1986

*Coleman A. Young, Mayor  
City of Detroit*

O'Laughlin Construction Company  
24460 Novi Road  
P.O. Box 466  
Novi, Michigan 48050

Gentlemen:

RE: Amendment No. 2  
Letter of Intent to Enter into Agreement to Provide  
Services to Control and Abate Possible Flooding Resulting  
from High Level of Water in the Detroit River  
Detroit, Michigan (86-088)

This letter is issued to amend the Letter of Intent dated March 21, 1986 and Amendment no. 1 or Letter of Intent dated April 11, 1986 between the City of Detroit and O'Laughlin Construction Company for services to Control and Abate possible Flooding from High Level of Water in the Detroit River. The Letter of Intent as amended by Amendment no. 1 established the total cost of the Contract not to exceed one hundred fifty thousand dollars (\$150,000.00).

The Contractor commenced work on Monday, March 24, 1986 and as of Monday, June 2, 1986 has expended an amount in the excess of \$205,320.00 which exceeds the \$150,000.00 contract amount. It is proposed to increase the contract amount by \$275,000.00 for a total contract amount of \$425,000.00.

Amend the letter of Intent and Amendment No. 1 to Letter of Intent as follows:

AMENDMENT NO. 2

On page 3 of letter dated March 21, 1986 under identification of Project Cost delete entirely item 1 which reads—

1. The total cost of the contract to perform the work, as described above, shall not exceed fifty thousand dollars (\$50,000.00) which is payment in total for all labor, material and equipment.

On page 1 of Amendment No. 1 Letter of Intent dated April 11, 1986 delete entirely item 1 which reads—

1. The total cost of the contract to perform the work, as described above, shall not exceed one hundred fifty thousand dollars (\$150,000.00) which is payment in total for all labor, material and equipment.

Two  
Laughlin Construction Company  
Re: Amendment No. 2  
July 15, 1986

And substitute the following—

1. The total cost of the contract to perform the work, as described above, shall not exceed four hundred and twenty five thousand dollars (\$425,000.00) which is payment in total for all labor, materials and equipment.

That all other terms, conditions and covenants of the "Letter of Intent" dated March 21, 1986 remain in full force and effect as set forth therein.

Sincerely yours,



Clyde R. Hopkins  
Director

JVW:bo

Attachment

Amendment No. 2 - Letter of Intent - March 21, 1986  
Accepted for O'Laughlin Construction Company

By: Robert L. Hopkins

Title: Project Manager

Date: July 21, 1986

cc: E. Kennedy	W. Stecher (Budget)
R. Karber	J. Kanters (Finance)
J. Crane	J. Messner (Budget)
J. Wickey	D. Pailen (Law)
C. Abrams (DPW)	O. Collins (Finance)
B. Marshall (Finance)	K. Johnson (Civil Defense)

# City of Detroit

## INTER-OFFICE CORRESPONDENCE

TO: Clyde R. Hopkins  
Director

DATE July 8, 1986

FROM: R. Ellena

SUBJECT: Floodwater Protection  
Project Cost (Interim)

The cost summary of the project cost for flood control is as follows:

Site	Cost
191 Ashland	\$ 29,387.12
374 Ashland	5,513.96
414 Ashland	50,392.54
502 Ashland	7,701.49
552 Ashland	7,683.07
666 Ashland	17,613.57
14604 Klenk	52,351.95
14705 Klenk	12,714.77
14520 Scripps	11,347.96
14528 Scripps	8,203.20
Total	202,909.63

The average cost of sheeting (project) is \$361.75 per foot.

An interesting comparison of site cost with sheeting length and cost within the project is as follows:

Location	Site Cost	% Total Site Cost	Sheet Piling (Ft.) Horiz.	Cost/Ft. Sheet Piling	% Total Sheet Piling
191 Ashland	29,387.12	14.5	84.5	348	15.1
374 Ashland	5,513.96	2.7	10.6	520	1.9
414 Ashland	50,392.54	24.8	96.3	523	17.2
502 Ashland	7,701.49	3.8	31.0	248	5.5
552 Ashland	7,683.07	3.8	37.0	208	6.6
666 Ashland	17,613.57	8.7	52.0	339	9.3
14604 Klenk	52,351.95	25.8	136.2	384	24.3
14705 Klenk	12,714.77	6.3	47.3	269	8.4
14520 Scripps	11,347.96	5.6	49.0	232	8.7
14528 Scripps	8,203.20	4.0	17.0	482	3.0
Totals	202,909.63	100.0	560.9		100.0



# City of Detroit

## INTER-OFFICE CORRESPONDENCE

TO: Clyde R. Hopkins, Director

DATE July 16, 1986

FROM: James Crane  
Acting Head Engineer

SUBJECT: INSPECTION PERSONNEL REASSIGNMENT

Per our discussion on July 15, 1986 and my memo of July 9, 1986, the listed personnel are reassigned as follows:

W. Rankin, Sr. Construction Inspector, is to report to Mr. VanHese on Monday, July 28, 1986.

J. Monaghan, Sr. Construction Inspector, is to report to Mr. VanHese on Monday, July 21, 1986.

D. Tumidanski, Sr. Construction Inspector, is to report to Mr. Smith on Monday, July 21, 1986.

JC:mm

*Approved  
July 16, 1986  
C Hopkins*

# Top Creek flood control - cost summary as of:

LOCATION	SITE COST	% TOTAL SITE COST	SHEET PILING (FT) HORIZ	COST/FT SHEET PILING	% TOTAL SHEET PILING
191 ASHLAND	2938712	14.5	84.5	348	15.1
374 "	551396	2.7	10.6	520	1.9
414 "	5039254	24.8	96.3	523	17.2
502 "	770149	3.8	31.0	248	5.5
552 "	768307	3.8	37.0	208	6.6
666 ASHLAND	1761357	8.7	52.0	339	9.3
14604 KLENK	5235195	25.8	136.2	384	24.3
14705 "	1271477	6.3	47.3	269	8.4
14520 SCRIPPS	1134796	5.6	49.0	232	8.7
14528 "	820320	4.0	17.0	482	3.0
	<u>20290963</u>	<u>100</u>	<u>560.9</u>		<u>100</u>
				361.75 AVERAGE	

July 1, 1986

Fox Creek - Project cost summary  
through May 16, 1986

Site	Cost
191 Ashland	\$ 29387.12
374 "	5513.96
414 "	50392.54
502 "	7701.49
552 "	7683.07
666 Ashland	17613.57
14604 Klenk	52351.95
14705 Klenk	12714.77
14520 Scripps	11347.96
14528 Scripps	8203.20
Total	\$ 202909.63

# Top Creek flood control - cost summary as of :

LOCATION	SITE COST	% TOTAL SITE COST	SHEET PILING (FT) HORIZ	COST/FT SHEET PILING	% TOTAL SHEET PILING
191 ASHLAND	29387.12	14.5	84.5	348	15.1
374 "	5513.96	2.7	10.6	520	1.9
414 "	50392.54	24.8	96.3	523	17.2
502 "	7701.49	3.8	31.0	248	5.5
552 "	7683.07	3.8	37.0	208	6.6
666 ASHLAND	17613.57	8.7	52.0	339	9.3
14604 KLENK	52351.95	25.8	136.2	384	24.3
14705 "	12714.77	6.3	47.3	269	8.4
14520 SCRIPPS	11347.96	5.6	49.0	232	8.7
14528 "	8203.20	4.0	17.0	482	3.0
	202909.63	100	560.9		100
				861.75 AVERAGE	

From W. Rankin

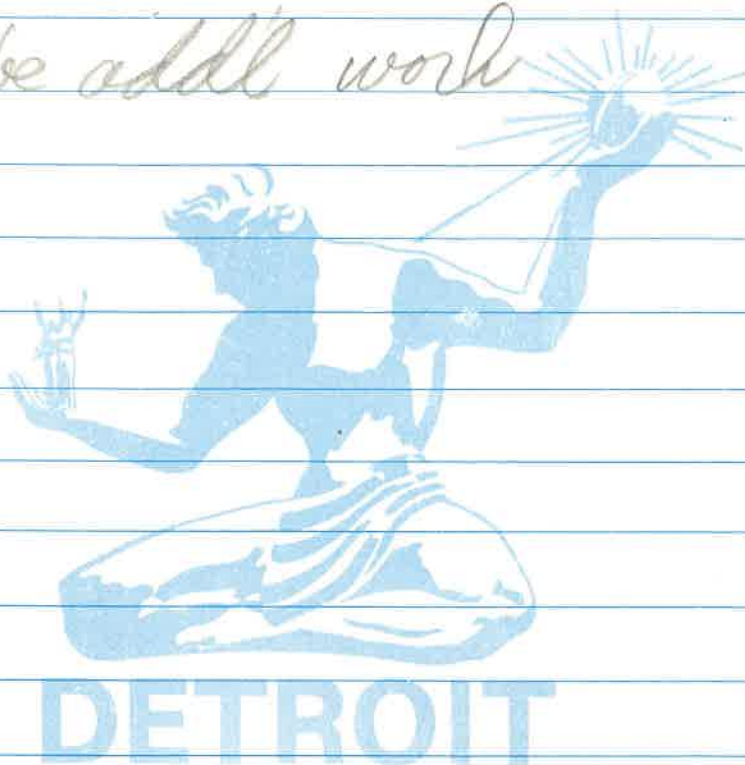
5/21

as of Fri May 16

\$205,320 spent

almost nothing this week

may  
will be addl work



# City of Detroit

## INTER-OFFICE CORRESPONDENCE

TO: Clyde R. Hopkins  
Director

DATE May 19, 1986

FROM: John V. Wickey



SUBJECT: Flood Control and Abatement  
O'Laughlin Construction  
Cost as of May 16, 1986  
(86-071)

At the close of work on Friday, May 16, 1986 the total Cost of the Work is \$221,425.37. The Contractor is planning on completing the work on Tuesday, May 20, 1986.

The Cost of Work for O'Laughlin's Contract is not to exceed \$225,000.00.

JVW/mjs

cc: E. Kennedy  
N. Kawwas  
 R. Ellena  
R. Karber  
J. Crane  
W. Rankin

To Clyde Hopkins  
Director  
From John Wickey.

Contract Control & Abate Flooding.  
Actual Cost & Estimate to  
Completion. (86-038)

Cost thru Monday 4/7/86	\$118,200 -
Estimated Cost. 4/8/86	5500 -
Delivery Steel Piling 4/9/86	2530 -
Estimate Cost 4/9/86	5500

Estimated Completion by Monday  
April 14, 1986 - Cost to Complete. 25000 -

Total Cost - \$156,730 00

Received from W. Bankin 800 4/9/86

cc  
N. J. KAWANS  
R. KALBER  
R. ECCOITA.

*Flood Control Contract  
O'Laughlin Construction Co.*

**City Engineering Department**  
April 22, 1986

Honorable City Council:  
Re: Floodwater Protection, Lower East Side, Alter Road at River, Request for Additional Funds (86-051).

In response to the request of Mr. Conley Abrams, Director of the Department of Public Works, your Honorable Body on March 20, 1986, approved the transfer of one hundred and fifty thousand dollars (\$150,000.00) from Appropriation No. 94-0388 (Repayment of Short Term Borrowing) to Appropriation No. 22-0048 (Special Projects). These funds, along with \$40,000.00 from the State of Michigan, were to be used to erect and construct barriers, dikes or embankments and to take other measures as necessary to control the flood waters in the City of Detroit.

In order to expedite the time schedule to permit immediate construction activity to control and abate flooding conditions, it was necessary to utilize the emergency provision of the City of Detroit Code, Section 21-3-6(B) which provides for waiver of competitive bids when "Public exigencies require the immediate delivery of the articles or performance of the service." By the same above-referenced section of the City Code, the Finance Department Director, Bella Marshall, as of March 21, 1986 authorized a special Finance Directive to process purchase requisitions on an emergency basis. Under the authority of the executed directive, this Department on March 21, 1986, entered into an interim agreement with O'Laughlin Construction Company to perform work for the protection of health, safety and welfare of the public.

O'Laughlin Construction Company commenced work on Monday, March 24, 1986 and as of April 21, 1986 has made substantial progress in providing steel sheet piling and placing clay dikes and sandbag barriers to control flooding. The cost of the work as of 8:00 a.m., April 21, 1986, is \$179,890.89 and it is estimated that the funds required to complete the work is \$37,500.00 which would result in a total cost of \$217,340.89. Since the Department of Public Works was allocated \$15,000.00 for materials and supplies, present funds available for the contract are \$175,000.00 resulting in a shortage of \$42,340.89.

To cover any unforeseen development, it is requested that your Honorable City Council transfer an additional sum of fifty thousand dollars (\$50,000.00) to Appropriation No. 22-0048 (Special Projects).

As the work progresses, you will continue to be informed of the steps taken by this Department to ensure control and abatement of flooding for the public safety, health and welfare. Your continuing cooperation is appreciated in the resolution of this condition.

Respectfully submitted,  
CLYDE R. HOPKINS  
Director

Approved: W. I. STECHER  
Budget Director  
JOHN P. KANTERS  
Deputy Finance Director

By Council Member Eberhard:  
Resolved, That the 1985-86 Budget be and is hereby amended as follows:

Increase Appropriation No. 22-0048, Special Projects, by \$50,000;  
Decrease Appropriation No. 06-0226, Budget Department Operations, by \$50,000;  
and be it further

Resolved, That the Finance Director be and is hereby authorized to establish accounts, transfer funds, and honor vouchers in accordance with this resolution, the foregoing communication and standard City procedures.

Adopted as follows:

Yeas — Council Members Cleveland, Collins, Eberhard, Hood, Kelley, Mahafey, Peoples, Ravitz and President Henderson — 9.

Nays — None.

*To.*

*C. R. HOPKINS / E. KENNEDY  
R. ELLONA  
J. CRANE  
R. HARRAGE  
N. HUGHES.*

*DETROIT LOCAL NEWS  
MAY 2, 1986*



# City of Detroit

## INTER-OFFICE CORRESPONDENCE

TO: N. J. Kawwas

DATE April 16, 1986

FROM: R. W. Ellena

SUBJECT: Meeting of State Shoreline  
Protection Program

A meeting was held on April 15, 1986 at Northville State Police Post with personnel from the Emergency Management Division of the Michigan State Police on the Shoreline Protection Program. Karl Johnson attended for Civil Defense.

Sergeant James Hostutler presented the information necessary for proper documentation of expenditures for the state grant. Two forms will be used (1) Summary of Project Costs and (2) Personnel Expenditures. The documentation should include copies of contracts, invoices, vouchers and checks.

When review of the billings is complete, final reimbursement will commence.

The final date for submitting this documentation is August 29, 1986.

RWE:ss



**INSPECTOR'S DAILY REPORT**

FILE 203

Contractor _____ Subcontractor _____	Weather _____ Temp. High _____ Low _____
---	---

**CONTRACT ITEMS AS CONSTRUCTED**

Foreman - Name	Men	Equipment/Number			
Work Item	Station and Location	Quantity	Unit Meas.	Remarks	

Sketches, Computations, Remarks, etc.

<i>Inspector Signature</i>	<i>Project Engr.</i>	Control Section Identification	Job Number
		Federal Number	
		Day	Date
			Report No.

Original - Project Engr.     C.C. - Inspector



