

97-007-029-D (R)  
HEATH

STATE OF MICHIGAN  
DEPARTMENT OF ENVIRONMENTAL QUALITY  
PERMIT

REGULATORY BRANCH

1997 JUL -8 AM 9:18

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Permit No. 97-10-0754  
Issued Jul 3 97  
Extended  
Revised  
Expires Dec 31 98  
-----\*

I  
S City of Detroit  
S T 900 Cadillac Tower  
U O Detroit  
E MI 48226  
D

This permit is granted under the provisions of the Natural Resources and Environmental Protection Act 451, P.A. 1994 and specifically:  
Part 301 Inland Lakes & Streams

\*- Permitted Activity -----\*  
Install approximately 5,125 linear feet of steel seawall within Fox Creek, along the eastern edge of the creek. All work shall be completed in accordance with attached plans.

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Water Course Affected: Fox Creek  
County: Wayne Town: 018 Range: 13E Sections:  
Subdivision: Lot:  
-----\*

Authority granted by this permit is subject to the following limitations:

- A. Initiation of any work on the permitted project confirms the permittee's acceptance and agreement to comply with all terms and conditions of this permit.
- B. The permittee in exercising the authority granted by this permit shall not cause unlawful pollution as defined by Part 31, Water Resources Protection of Act 451, P.A. 1994.
- C. This permit shall be kept at the site of the work and available for inspection at all times during the duration of the project or until its date of expiration.
- D. All work shall be completed in accordance with the plans and the specifications submitted with the application and/or plans and specifications attached hereto.
- E. No attempt shall be made by the permittee to forbid the full and free use by the public of public waters at or adjacent to the structure or work approved herein.
- F. It is made a requirement of this permit that the permittee give notice to public utilities in accordance with Act 53 of the Public Act of 1974 and comply with each of the requirements of that act.
- G. This permit does not convey property rights in either real estate or water, nor does it authorize any injury to private property or invasion of public or private rights, nor does it waive the necessity of seeking federal assent, all local permits or complying with other state statutes.
- H. This permit does not prejudice or limit the right of a riparian owner or other person to institute proceedings in any circuit court of this state when necessary to protect his rights.
- I. Permittee shall notify the Department of Environmental Quality within one week after the completion of the activity authorized by this permit, by completing and forwarding the attached, preaddressed post card to the office addressed thereon.
- J. This permit shall not be assigned or transferred without the written approval of the Department of Environmental Quality.
- K. Failure to comply with conditions of this permit may subject the permittee to revocation of permit and criminal and/or civil action as cited by the specific State Act, Federal Act and/or Rule under which this permit is granted.
- L. Work to be done under authority of this permit is further subject to the following special instructions and specifications:

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PERMIT LIMITATIONS, continued

Authority granted by this permit does not waive permit requirements under the Soil Erosion and Sedimentation Control Act, Public Act 347, or the need to acquire applicable permits from the County Drain Commissioner.

Authority granted by this permit does not waive any jurisdiction of the U.S. Corps of Engineers or the need for a federal permit, if required.

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. All raw banks shall be stabilized with sod and/or seed, and mulched or riprapped as necessary to prevent erosion.

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. All raw banks shall be stabilized with sod and/or seed, and mulched or riprapped as necessary to prevent erosion.

Unless authorized by attached plans, seawall, bulkhead or revetment structure shall not be placed waterward of the existing water's edge and shall be placed in such a manner so as to join existing walls on adjacent properties or to allow joining by adjacent owners if desired without creating right angles or waterward extensions.

On project requiring backfilling, seawall shall be in place prior to placing any fill.

If the project, or any portion, is stopped and lies uncompleted for any length of time other than that encountered in a normal work week, every precaution shall be taken to protect the uncompleted work from erosion, including the placement of temporary sandbag riprap or other acceptable temporary protection.

No work shall be done in the stream during periods of above-normal flows except as necessary to prevent erosion.

In issuing this permit, the Department of Environmental Quality has relied on the information and data which permittee has provided in connection with the permit application. If, subsequent to the issuance of this permit, such information and data prove to be false, incomplete, or inaccurate, the Department may modify, revoke, or suspend the permit, in whole or in part, in accordance with the new information.

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PERMIT LIMITATIONS, continued

This permit is granted conditionally under circumstances of emergency or urgency as listed to protect property or general public welfare.

Permit authorized to allow installation of a steel bulkhead along an existing berm that retains water at an elevation higher than that of surrounding homes. Berm becoming unsafe.

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 ordered by the Department of Environmental Quality.

All raw areas resulting from this construction activity shall be promptly and effectively stabilized with sod and/or seed-mulch in sufficient quantity to prevent erosion and subsequent siltation to the watercourse.

Permittee is cautioned that grade changes resulting in increased runoff onto adjacent property is subject to civil damage litigation.

Permittee covenants not to sue the State of Michigan, or any of its departments, boards, commissions, officers, employees, or agents for any claim, whether legal or equitable, arising under or in any manner related to the privileges granted in this Permit. Permittee hereby releases, waives, and discharges the State of Michigan and all of its departments, boards, commissions, officers, employees, and agents from any and all liability to permittee arising under or in any manner related to the privileges granted under this permit.

Permittee agrees to indemnify the State of Michigan and all of its departments, agencies, boards, commissions, officers, employees, and agents from any and all liability arising under or in any manner related to the issuance of the Permit or the privileges granted under this Permit.

The authority to conduct the activity as authorized by this permit is granted solely under provisions of the governing act as identified above. This permit does not convey, provide or otherwise imply approval of any other governing act, ordinance or regulation, nor does it waive the permittee's obligation to acquire any local, county or federal approval or authorizations necessary to conduct the activity.

Any soils removed from Fox Creek shall be disposed of in a Type II landfill unless sediments are tested using DEQ protocol and procedures and permittee receives written confirmation and approval of alternative spoil disposal location.

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PERMIT LIMITATIONS, continued

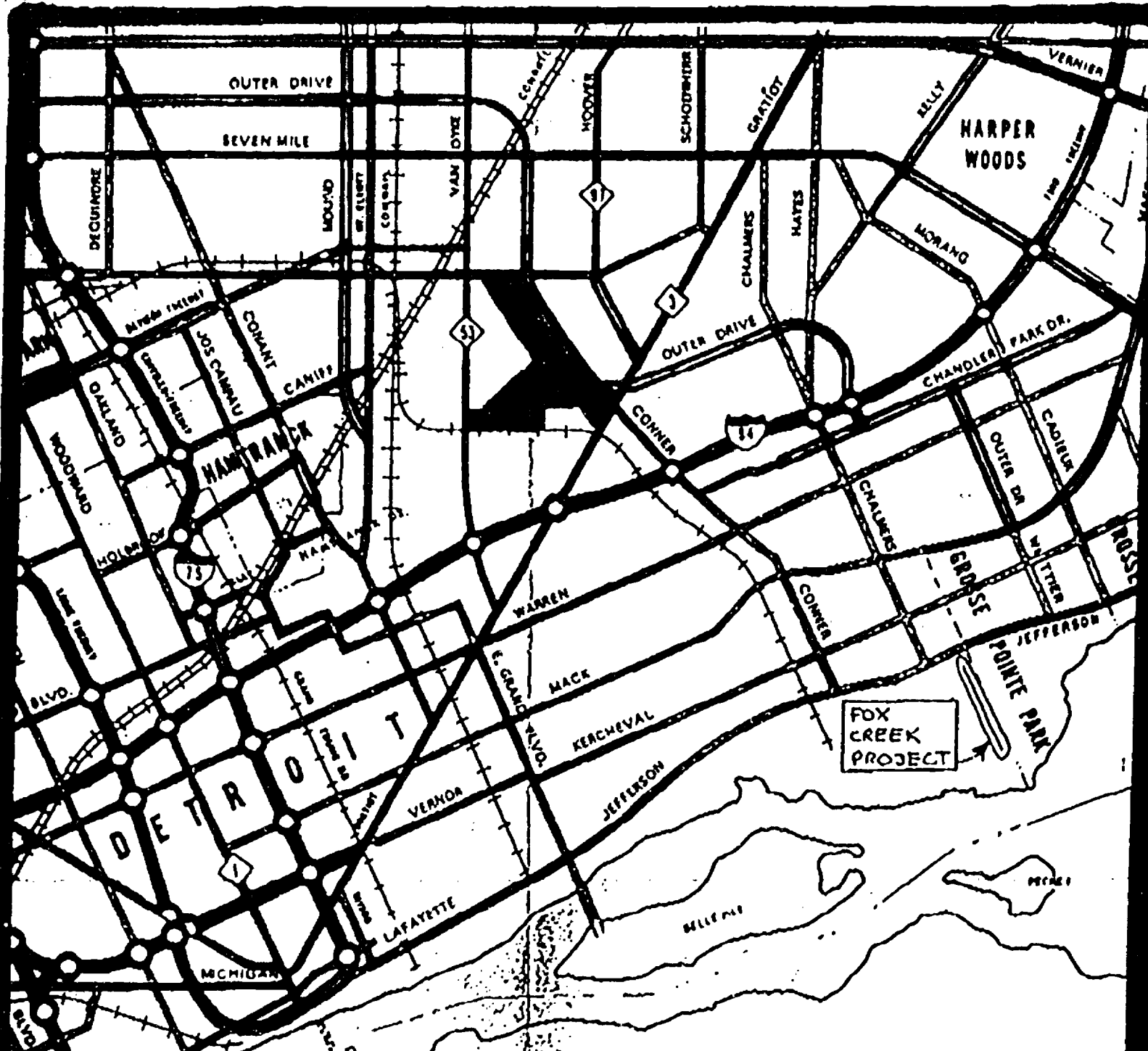
This permit does not authorize any injury to the property or rights of others.

Russell J. Harding  
Director, Department of Environmental Quality

by: Andrew J. Hartz  
Andrew J. Hartz  
Land and Water Management Analyst  
Land and Water Management Division

ISSUING OFFICE:  
Michigan Department of Environmental Quality  
Southeast Michigan District Office  
Land and Water Management Division  
38980 Seven Mile Road  
Livonia, Michigan 48152  
(313) 953-0241

CC: LWMD-Lansing  
Wayne CEA  
USACOE-Attn: Bob Derouche ✓



FOX CREEK PROJECT

RECEIVED

JUL 1 1997

ENVIRONMENTAL QUALITY  
LAND & WATER MANAGEMENT

**DEQ - LWMD**  
 FILE # 97-10-0754  
**APPROVED PLANS**  
 W 1 OF 5



# DEQ - LWMD

FILE # 97-10-0254

## APPROVED PLANS

2 OF 5

*(Signature)*

REPAIR OF ROAD

PROPOSED SSP  
DRIVE-LINE

ALTER ROAD

FOX CREEK

MANISTIQUE AVE.

### FOX CREEK SEAWALL REPAIR PROJECT VICINITY MAP

SCALE: 1" = 200'



SNELL  
ENVIRONMENTAL  
GROUP, INC.

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JUL 1 1997

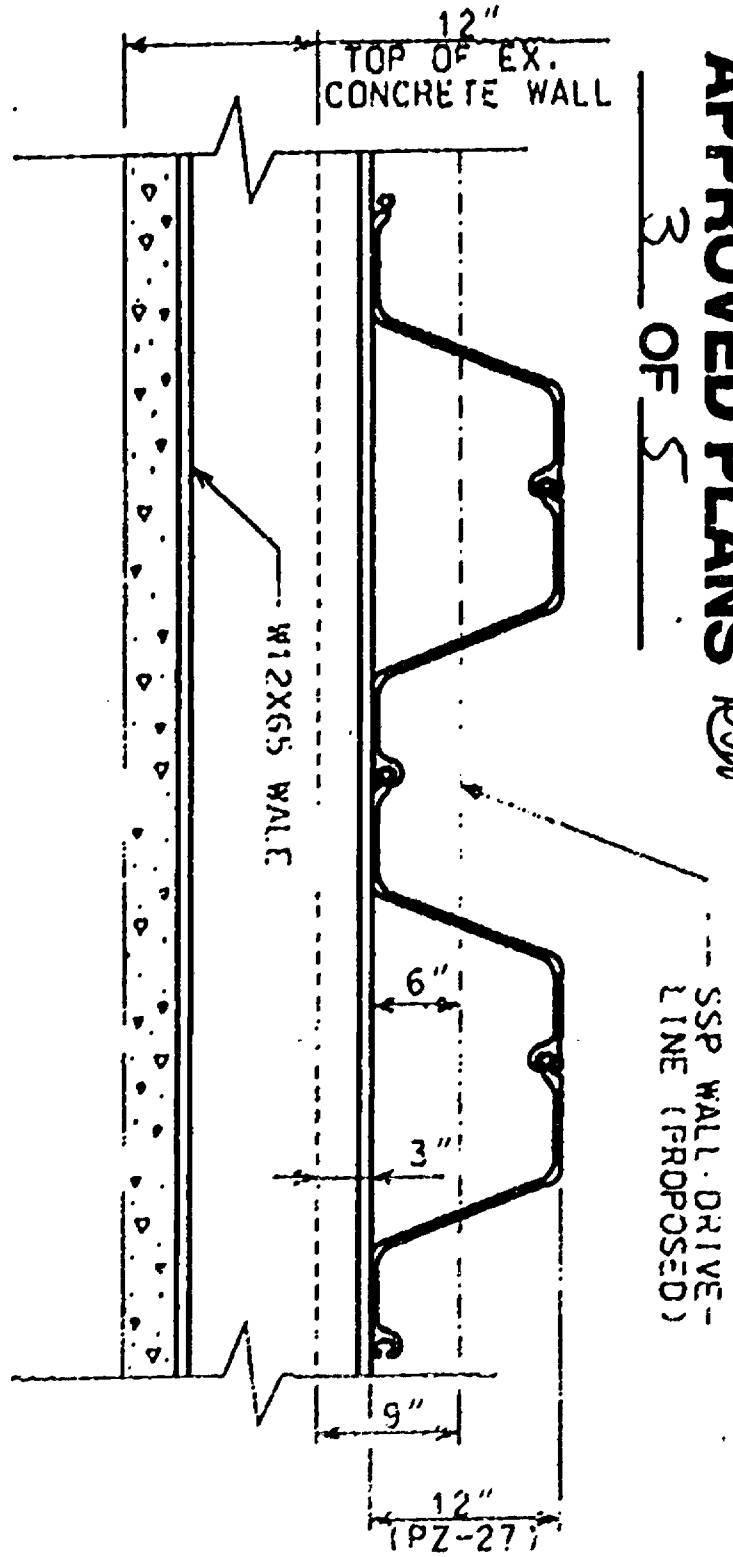
JUL 2 '97 15:03

Fax: 517-373-9365

5th floor DEQ/LWMD

**DEQ - LWMD**  
**FILE # 97-10-0754**  
**APPROVED PLANS**

3 OF 5



**PROPOSED TYPICAL SSP PLAN VIEW**

SCALE: 1" = 1'-0"

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JUL 1 1997



ENVIRONMENTAL CONSULTANTS  
 AND WASTE MANAGEMENT



SNELL  
 ENVIRONMENTAL  
 GROUP, INC.  
 10000 W. 15th Ave.  
 Golden, CO 80401  
 (303) 440-1500

MATCHLINE A-A

AVONDA AVE.

KORTE RD.

21.000

ALFER ROAD

FOX CREEK

KORTE RD

15.000

ALFER RD

FOX CREEK

15.000

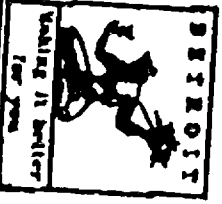
PROPOSED SSP DRIVE-LINE

5.000

D.O.R. STA. 0+000

0+000

1450 ALFER DRIVE WINDMILL PT.



FOX CREEK SEAWALL REPAIR PROJECT VICINITY MAP

SCALE: 1" = 200'

DEQ-LVMD  
FILE # 97-10-0754  
APPROVED PLANS  
OF S.

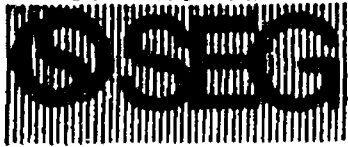


SNELL ENVIRONMENTAL GROUP, INC.

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DETROIT RIVER





A OLS Company  
Michigan Ohio Indiana

SUBJECT FOX CREEK SEAWALL  
DETROIT, MICHIGAN

JOB NUMBER 96A1-5160-10

SHEET NO. 1 OF 1

COMP. BY MDW DATE 6/20/97

CHECK'D BY BAH DATE 7-1-97

SCALE: 1 BLOCK = 14' = 1/4" = 1/4"

CREEK SIDE

LAND SIDE

SSP  
E

REQ'D  
W/2x66-WALL

EL 101 TOP OF SSP WALL

EL 100 WALL

GRADE EL 100

EL 97.60

HIGH WATER  
(6/97)

STIFF MOIST CLAY w/ TRACES OF GRAVELLY SAND  
 $\gamma = 123 \text{ pcf}$   $\phi = 28^\circ$   $C = 0 \text{ pcf}$

EL 94.97

NORMAL WATER

EXISTING CONC. WALL

AREA OF FLOW-FILL

EL 92.07

LOW WATER

LOOSE GRAY FINE SAND w/ TRACE OF ORGANICS  
 $\gamma = 106 \text{ pcf}$   $\phi = 28^\circ$   $C = 0 \text{ pcf}$

EL 91.0

CREEK BED

STIFF MOIST CLAY w/ SOME SILT, SAND & GRAVEL  
 $\gamma = 137 \text{ pcf}$   $\phi = 30^\circ$   $C = 0 \text{ pcf}$

REQ'D  
PZ-27  
SSP

**DEQ - LWMD**  
**FILE # 97-10-0754**  
**APPROVED PLANS**  
**5 OF 5**

MOIST CLAY w/ SOME SAND & GRAVEL  
 $\gamma = 139 \text{ pcf}$   $\phi = 30^\circ$   $C = 0 \text{ pcf}$

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JUL 1 1997

ENVIRONMENTAL QUALITY  
LAND & WATER MANAGEMENT

EL 71.63 SSP PENETRATION  
ELEVATION:

STIFF MOIST SANDY CLAY w/ SOME SILT & GRAVEL  
 $\gamma = 141 \text{ pcf}$   $\phi = 30^\circ$   $C = 0 \text{ pcf}$