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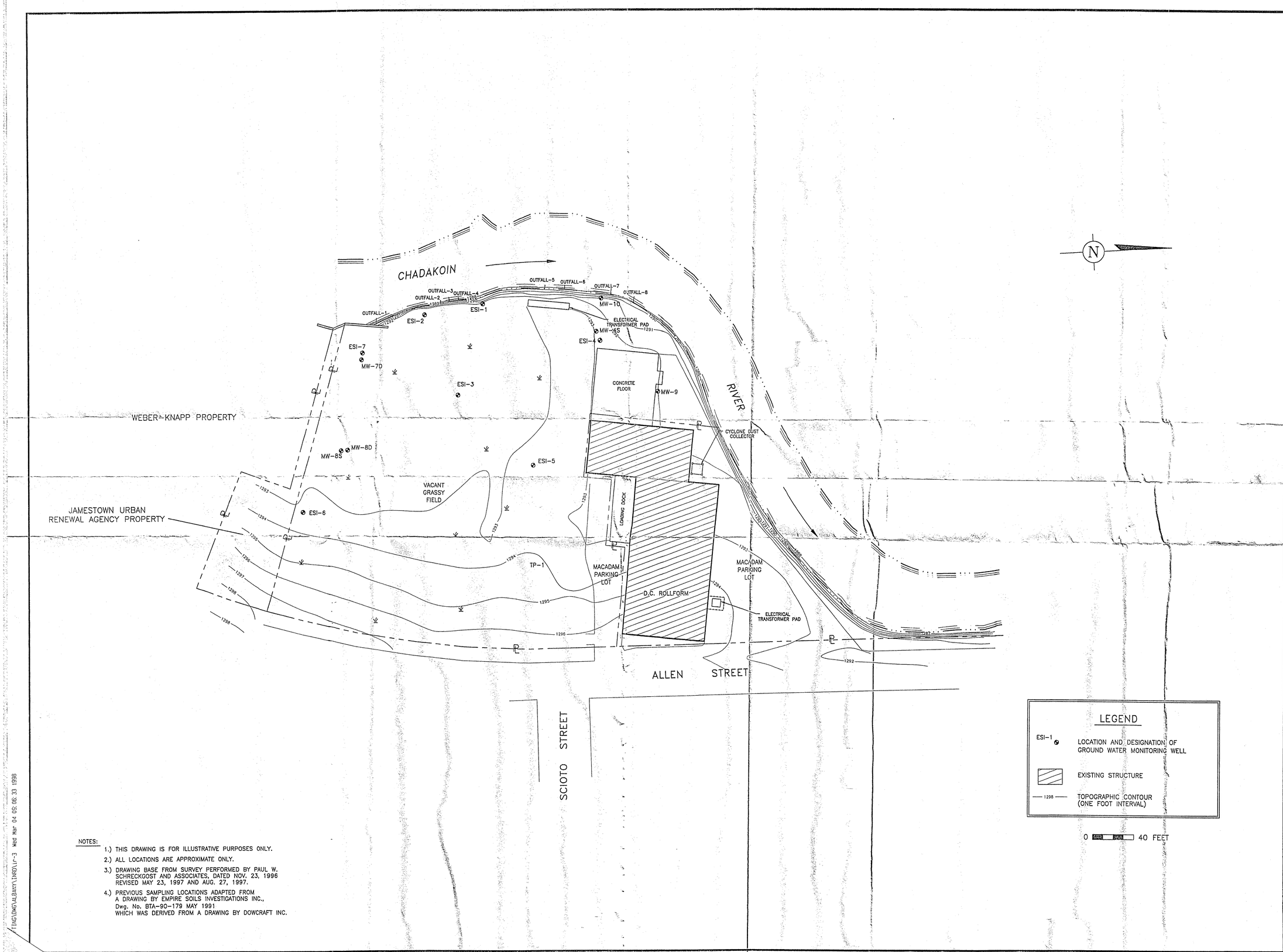


NOTES:

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3.) DRAWING BASE FROM SURVEY PERFORMED BY PAUL W. SCHRECKGOST AND ASSOCIATES, DATED NOV. 23, 1996 REVISED MAY 23, 1997 AND AUG. 27, 1997.

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| NO. | DATE | REVISION DESCRIPTION | BY / CKD |
|---|---|---|---|

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Albany, New York 12205
Tel: 518/452-7826 Fax: 518/452-4398

# SITE MAP

D.C. ROLLFORMS/INGERSOLL-RAND
JAMESTOWN, NEW YORK

| | |
|---|---|
| PROJECT MANAGER M. SANFORD | DRAWING NUMBER IR-3 |
| CHECKED BY M. SANFORD | PROJECT NUMBER AY0000219.0002 |
| DRAWN BY M. HORNBACH | FIGURE NUMBER 2 |
| DATE DRAWN 1/26/98 | |

T:\ENGINDWG\ALBDRAWY\INDGW\IF-3 Wed Mar 04 09:06:33 1998

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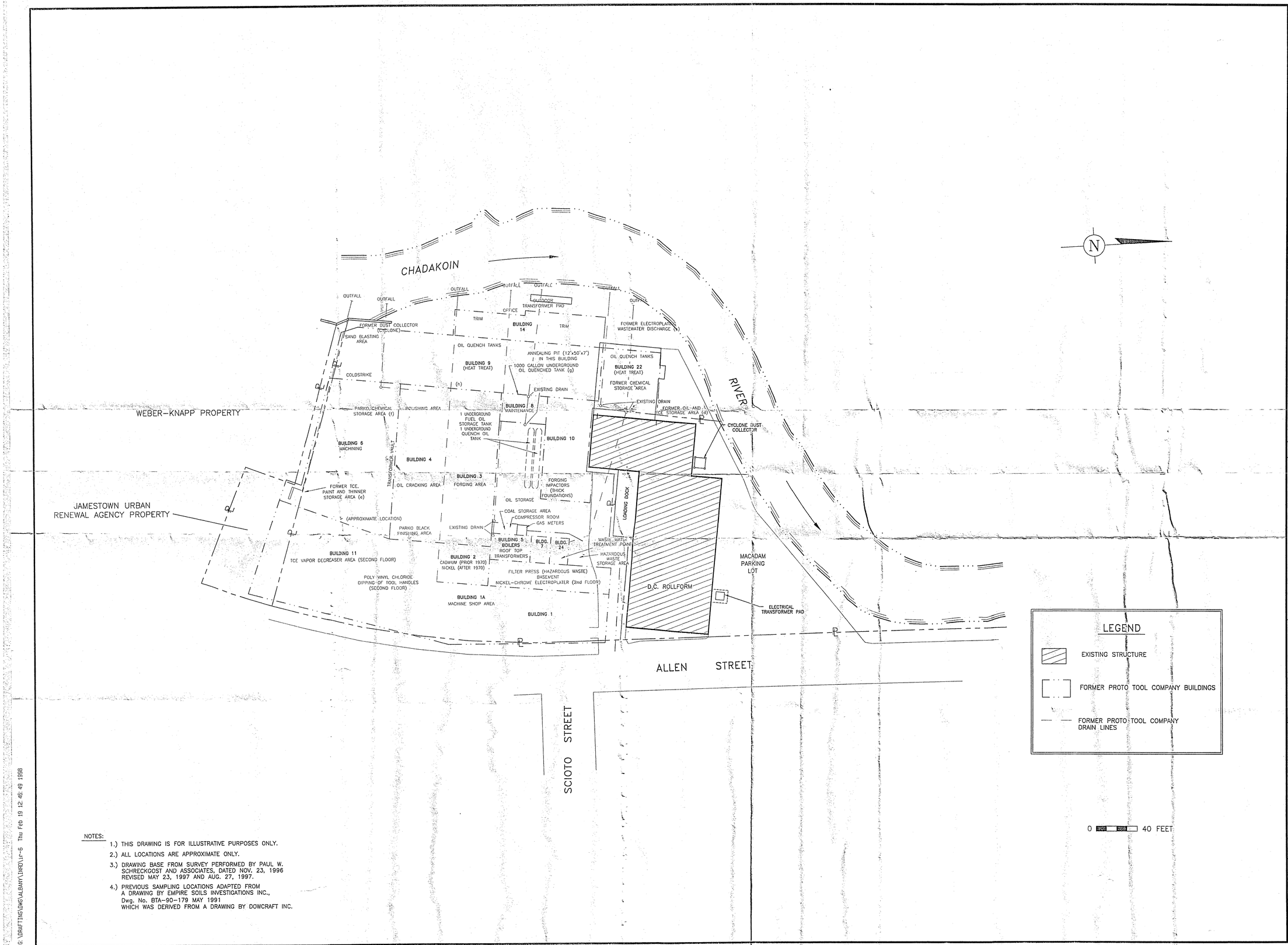


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# FORMER PROTO TOOLS BUILDING LAYOUT

D.C. ROLLFORMS/INGERSOLL-RAND
JAMESTOWN, NEW YORK

| | |
|---|---|
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| CHECKED BY M. SANFORD | PROJECT NUMBER AY0000219.0002 |
| DRAWN BY M. HORNBACH | FIGURE NUMBER 3 |
| DATE DRAWN 1/26/98 | |

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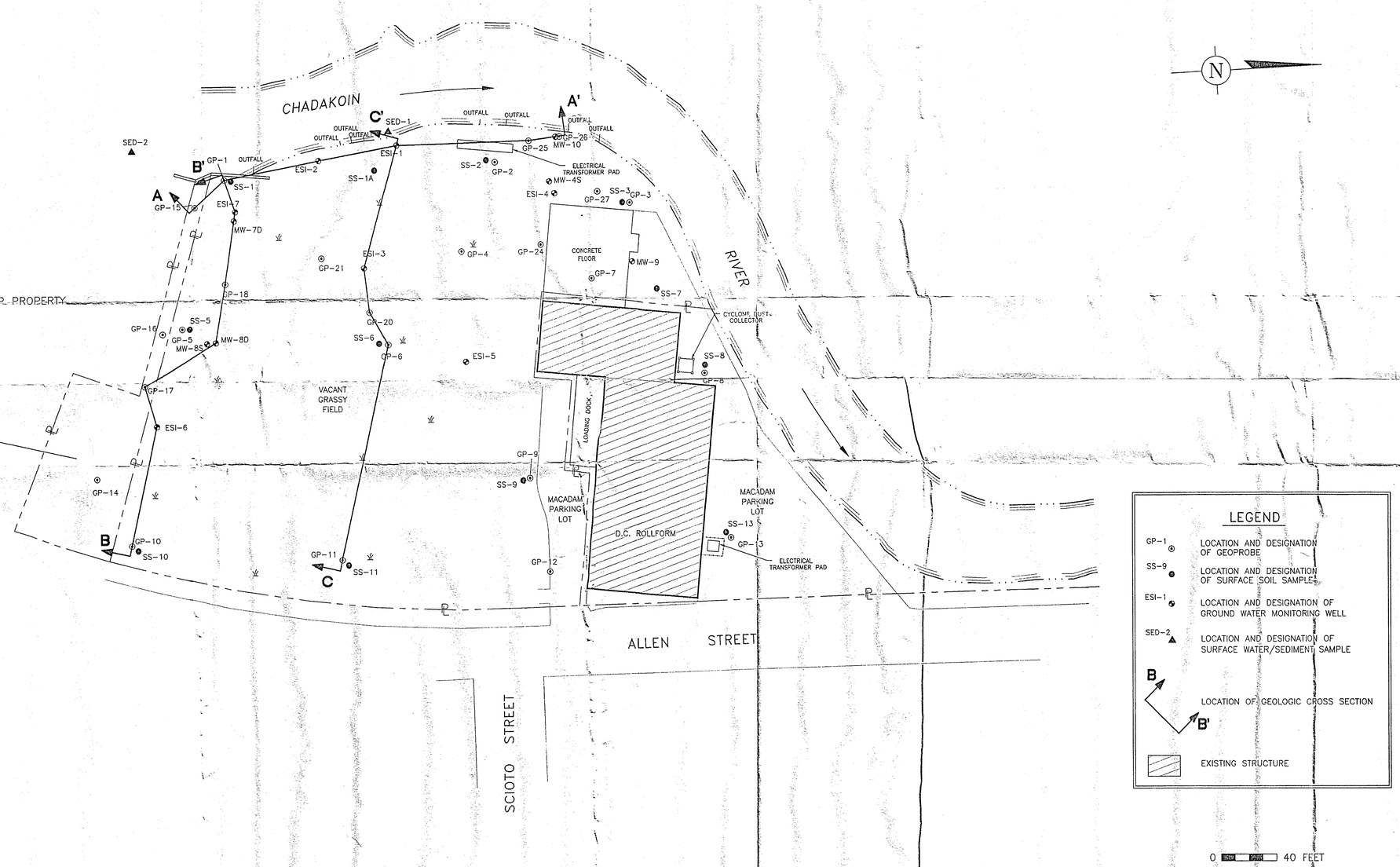


## LEGEND

| | |
|---|---|
| GP-1 | LOCATION AND DESIGNATION OF GEOPROBE |
| SS-9 | LOCATION AND DESIGNATION OF SURFACE SOIL SAMPLE |
| ESI-1 | LOCATION AND DESIGNATION OF GROUND WATER MONITORING WELL |
| SED-2 | LOCATION AND DESIGNATION OF SURFACE WATER/SEDIMENT SAMPLE |
| B / B' | LOCATION OF GEOLOGIC CROSS SECTION |
| | EXISTING STRUCTURE |

0 20 40 FEET

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# MONITORING WELL AND SAMPLING LOCATIONS

D.C. ROLLFORMS/INGERSOLL-RAND
JAMESTOWN, NEW YORK

| | |
|---|---|
| PROJECT MANAGER M. SANFORD | DRAWING NUMBER IR-5 |
| CHECKED BY M. SANFORD | PROJECT NUMBER AY0000219.0002 |
| DRAWN BY M. HORNBACH | FIGURE NUMBER 4 |
| DATE DRAWN 1/26/98 | |

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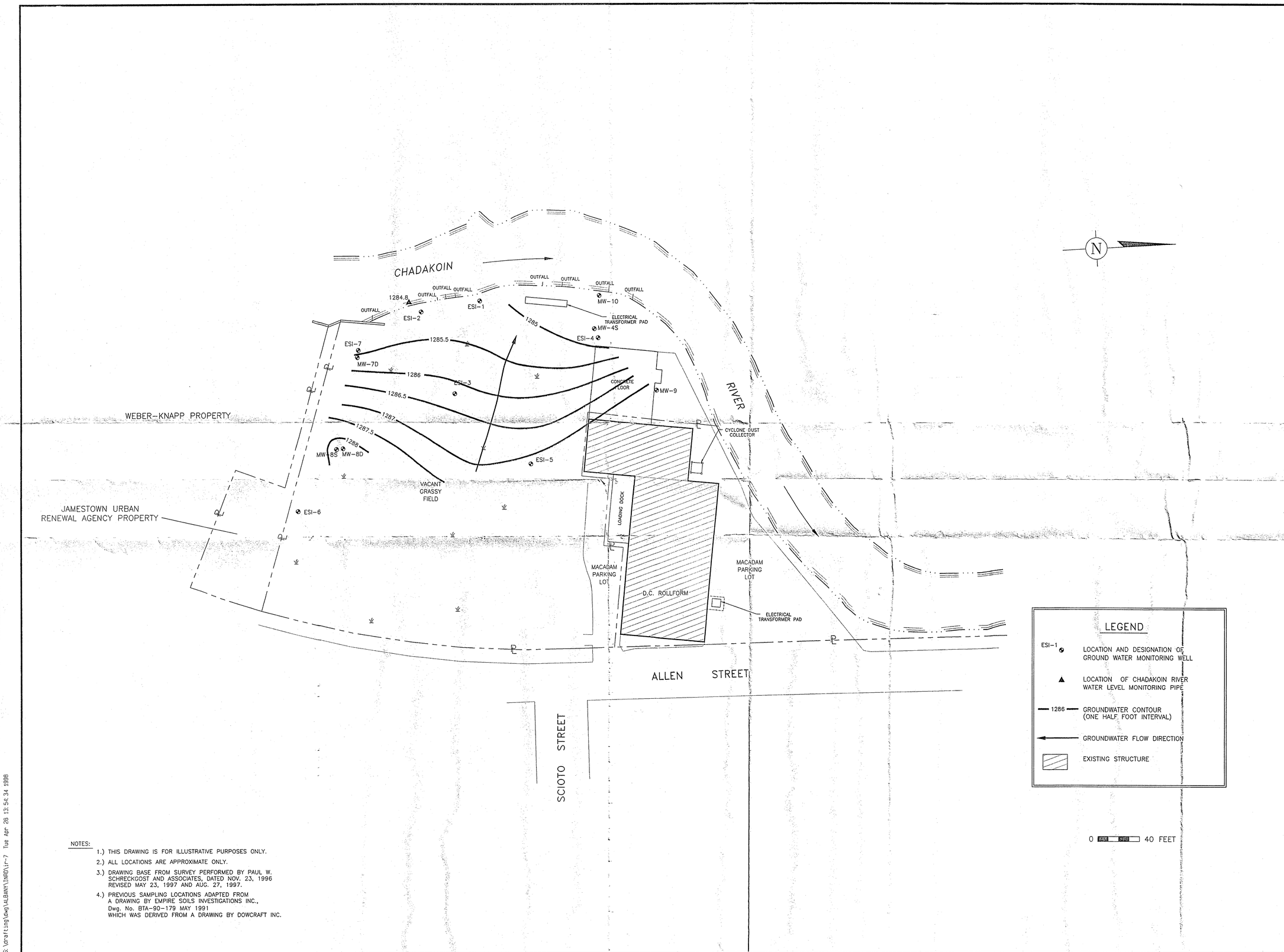


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# CONFIGURATION OF THE WATER TABLE AUGUST 20, 1997

D.C. ROLLFORMS/INGERSOLL-RAND
JAMESTOWN, NEW YORK

| | |
|---|---|
| PROJECT MANAGER M. SANFORD | DRAWING NUMBER IR-7 |
| CHECKED BY M. SANFORD | PROJECT NUMBER AY0000219.0002 |
| DRAWN BY M. HORNBACH | FIGURE NUMBER 5 |
| DATE DRAWN 1/26/98 | |

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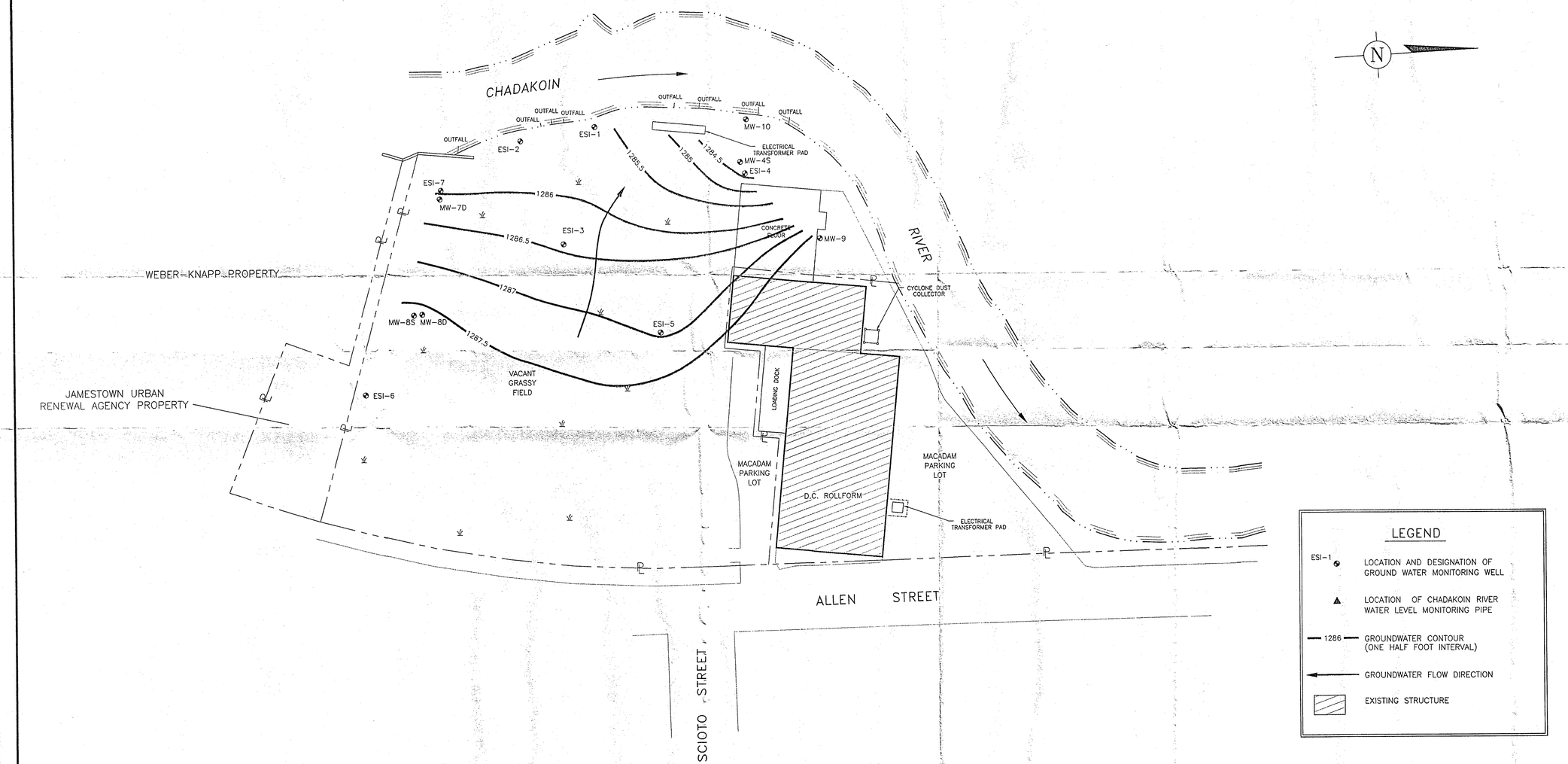


## LEGEND

| | |
|---|---|
| ESI-1 | LOCATION AND DESIGNATION OF GROUND WATER MONITORING WELL |
| ▲ | LOCATION OF CHADAKOIN RIVER WATER LEVEL MONITORING PIPE |
| 1286 | GROUNDWATER CONTOUR (ONE HALF FOOT INTERVAL) |
| ← | GROUNDWATER FLOW DIRECTION |
| ▨ | EXISTING STRUCTURE |

0 20 40 FEET

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# CONFIGURATION OF THE WATER TABLE SEPTEMBER 15, 1997

D.C. ROLLFORMS/INGERSOLL-RAND
JAMESTOWN, NEW YORK

| | |
|---|---|
| PROJECT MANAGER M. SANFORD | DRAWING NUMBER IR-8 |
| CHECKED BY M. SANFORD | PROJECT NUMBER AY0000219.0002 |
| DRAWN BY M. HORNBACH | FIGURE NUMBER 6 |
| DATE DRAWN 1/26/98 | |

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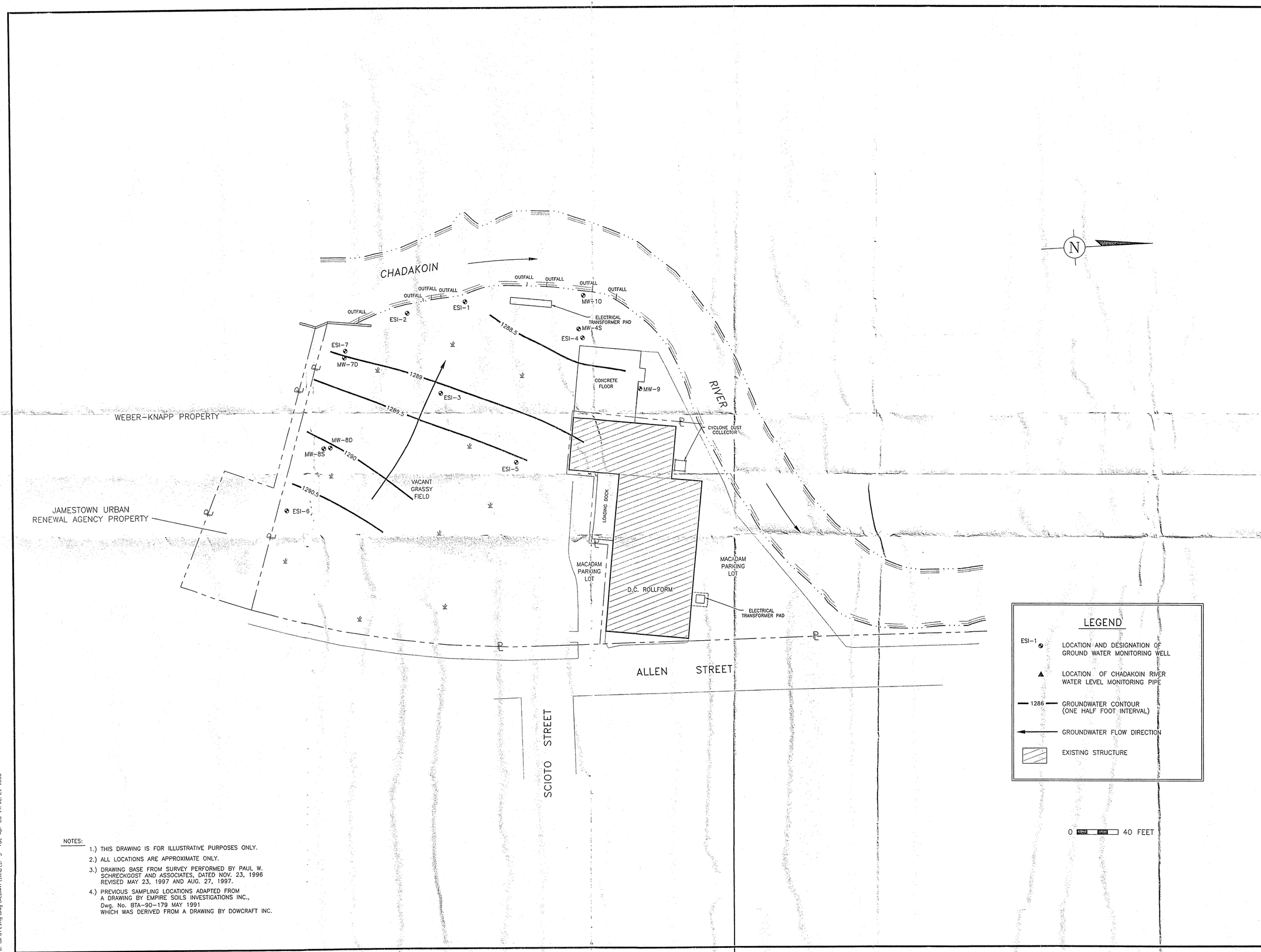


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|---|---|---|---|

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# CONFIGURATION OF THE WATER TABLE JANUARY 6, 1998

D.C. ROLLFORMS/INGERSOLL-RAND
JAMESTOWN, NEW YORK

| | |
|---|---|
| PROJECT MANAGER M. SANFORD | DRAWING NUMBER IR-8 |
| CHECKED BY M. SANFORD | PROJECT NUMBER AY0000219.0002 |
| DRAWN BY M. HORNBACH | FIGURE NUMBER 7 |
| DATE DRAWN 1/26/98 | |

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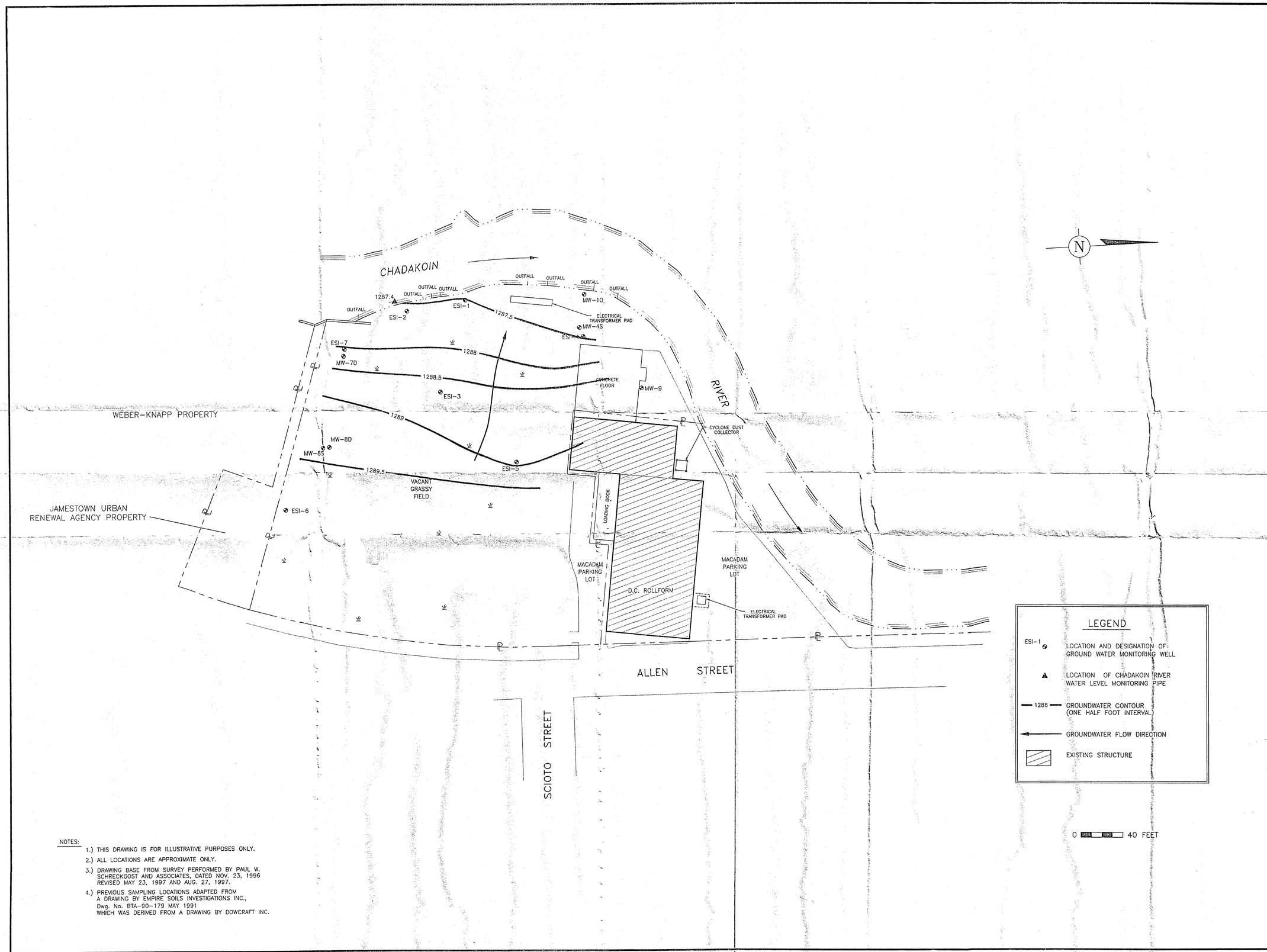


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# CONFIGURATION OF THE WATER TABLE FEBRUARY 2, 1998

D.C. ROLLFORMS/INGERSOLL-RAND
JAMESTOWN, NEW YORK

| | |
|---|---|
| PROJECT MANAGER M. SANFORD | DRAWING NUMBER IR-12 |
| CHECKED BY M. SANFORD | PROJECT NUMBER AY0000219.0002 |
| DRAWN BY M. HORNBACH | FIGURE NUMBER 8 |
| DATE DRAWN 3/4/98 | |

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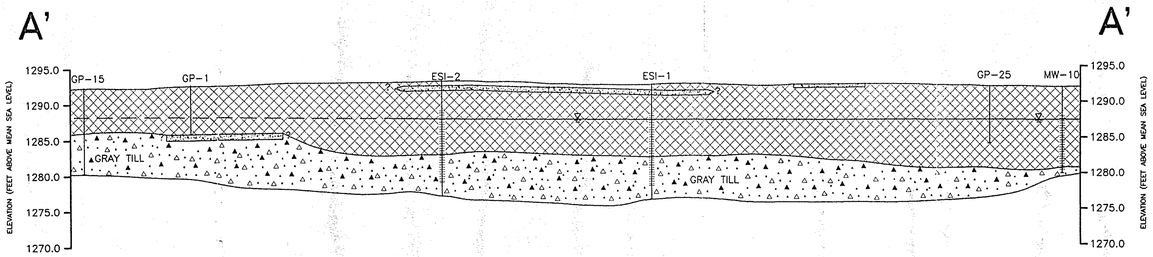
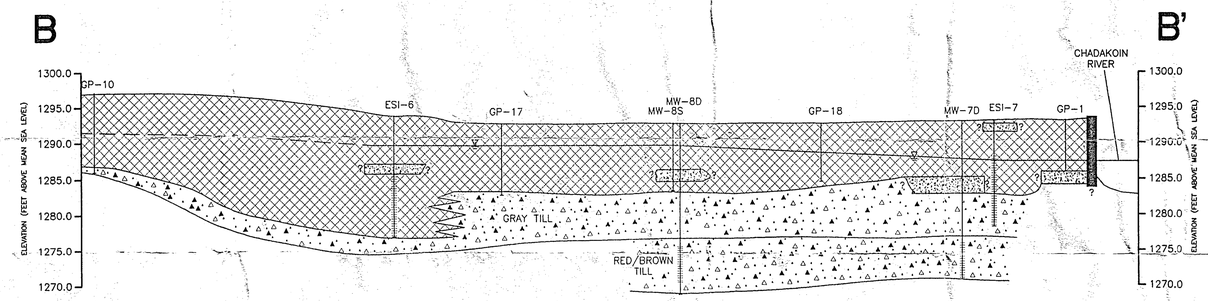
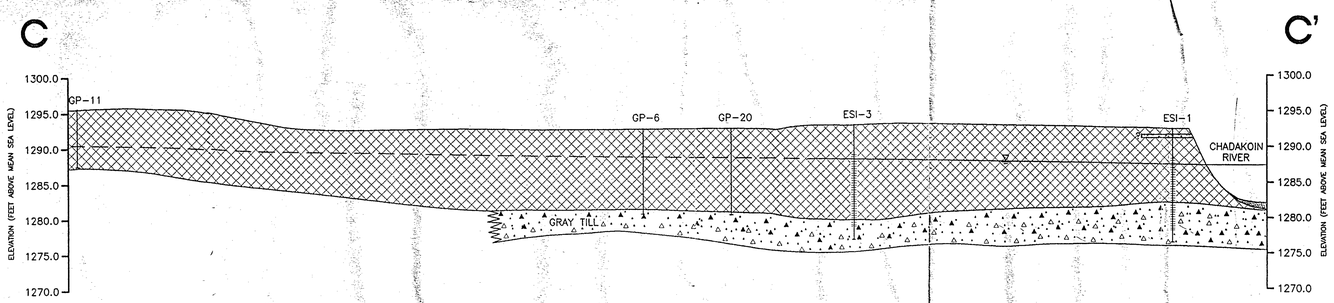
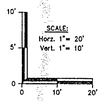



## LEGEND

| | |
|---|---|
| FILL | Gray and brown clayey silt with fine sand, gravel, brick, concrete and wood. |
| CONCRETE | |
| TILL | Gray and red/brown dense clayey silt, trace to some fine to medium sand and gravel. |
| WATER-LEVEL ELEVATION 2/2/98 (DASHED WHERE INFERRED) | |

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# GEOLOGIC CROSS SECTIONS A-A', B-B' AND C-C'

D.C. ROLLFORMS/INGERSOLL-RAND
JAMESTOWN, NEW YORK

| | |
|---|---|
| PROJECT MANAGER M. SANFORD | DRAWING NUMBER IR-11 |
| CHECKED BY M. SANFORD | PROJECT NUMBER AY0000219.0002 |
| DRAWN BY M. HORNBACH | FIGURE NUMBER 9 |
| DATE DRAWN 2/25/98 | |

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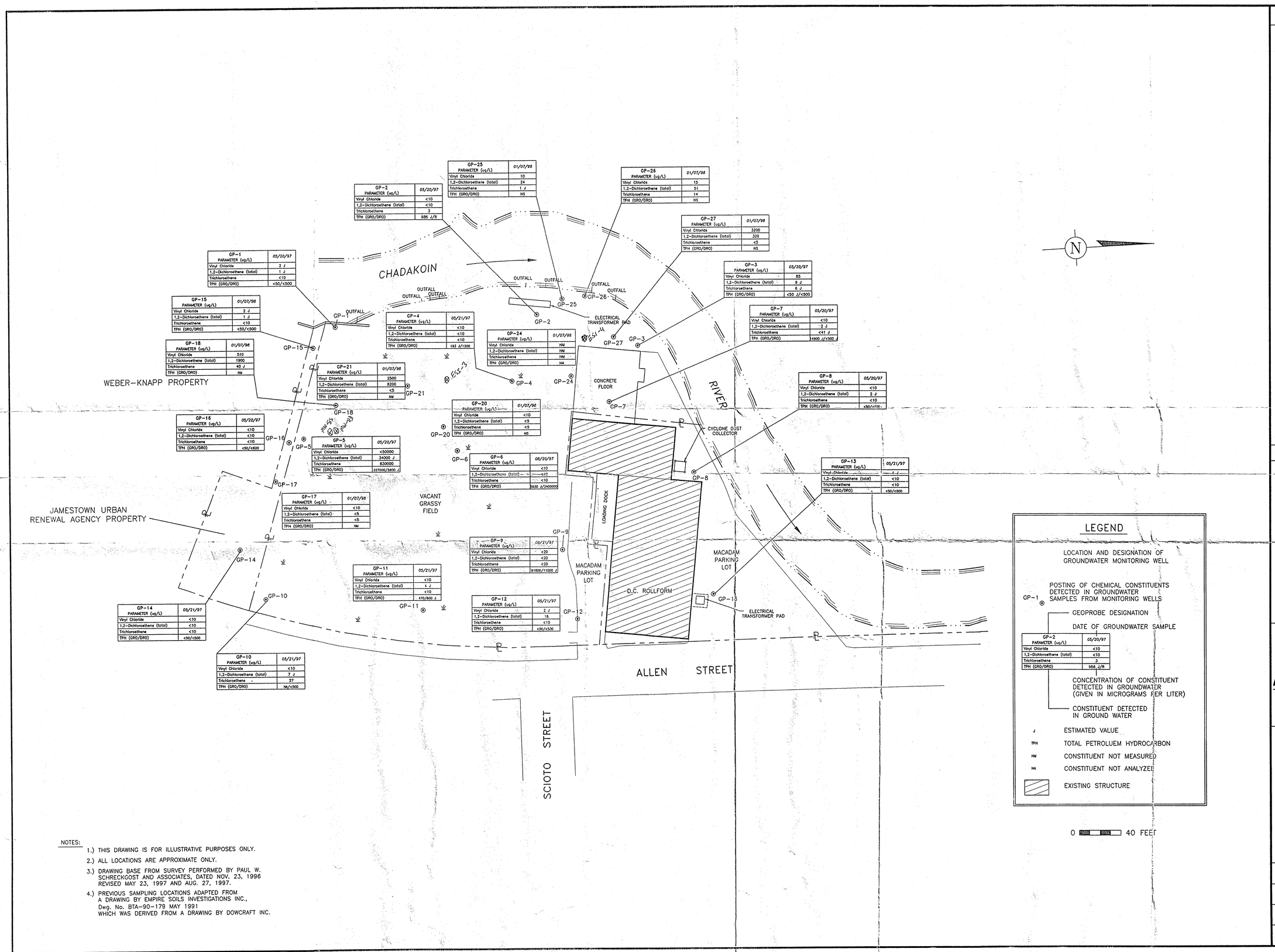


| GP-2 PARAMETER (ug/L) | 05/20/97 |
|---|---|
| Vinyl Chloride | <10 |
| 1,2-Dichloroethene (total) | <10 |
| Trichloroethene | 3 |
| TPH (GRO/DRO) | 986 J/R |

| GP-25 PARAMETER (ug/L) | 01/07/98 |
|---|---|
| Vinyl Chloride | 10 |
| 1,2-Dichloroethene (total) | 24 |
| Trichloroethene | 1 J |
| TPH (GRO/DRO) | NS |

| GP-26 PARAMETER (ug/L) | 01/07/98 |
|---|---|
| Vinyl Chloride | 15 |
| 1,2-Dichloroethene (total) | 51 |
| Trichloroethene | 14 |
| TPH (GRO/DRO) | NS |

| GP-27 PARAMETER (ug/L) | 01/07/98 |
|---|---|
| Vinyl Chloride | 3200 |
| 1,2-Dichloroethene (total) | 320 |
| Trichloroethene | <5 |
| TPH (GRO/DRO) | NS |

| GP-1 PARAMETER (ug/L) | 05/20/97 |
|---|---|
| Vinyl Chloride | 2 J |
| 1,2-Dichloroethene (total) | 1 J |
| Trichloroethene | <10 |
| TPH (GRO/DRO) | <50/<500 |

| GP-3 PARAMETER (ug/L) | 05/20/97 |
|---|---|
| Vinyl Chloride | 85 |
| 1,2-Dichloroethene (total) | 9 J |
| Trichloroethene | 6 J |
| TPH (GRO/DRO) | <50 J/<500 |

| GP-15 PARAMETER (ug/L) | 01/07/98 |
|---|---|
| Vinyl Chloride | 2 J |
| 1,2-Dichloroethene (total) | 1 J |
| Trichloroethene | <10 |
| TPH (GRO/DRO) | <50/<500 |

| GP-4 PARAMETER (ug/L) | 05/21/97 |
|---|---|
| Vinyl Chloride | <10 |
| 1,2-Dichloroethene (total) | <10 |
| Trichloroethene | <10 |
| TPH (GRO/DRO) | 183 J/1200 |

| GP-24 PARAMETER (ug/L) | 01/07/98 |
|---|---|
| Vinyl Chloride | NM |
| 1,2-Dichloroethene (total) | NM |
| Trichloroethene | NM |
| TPH (GRO/DRO) | NM |

| GP-7 PARAMETER (ug/L) | 05/20/97 |
|---|---|
| Vinyl Chloride | <10 |
| 1,2-Dichloroethene (total) | 2 J |
| Trichloroethene | <41 J |
| TPH (GRO/DRO) | 14900 J/<500 J |

| GP-18 PARAMETER (ug/L) | 01/07/98 |
|---|---|
| Vinyl Chloride | 510 |
| 1,2-Dichloroethene (total) | 1900 |
| Trichloroethene | 40 J |
| TPH (GRO/DRO) | NM |

| GP-21 PARAMETER (ug/L) | 01/07/98 |
|---|---|
| Vinyl Chloride | 2500 |
| 1,2-Dichloroethene (total) | 8200 |
| Trichloroethene | <5 |
| TPH (GRO/DRO) | NM |

| GP-8 PARAMETER (ug/L) | 05/20/97 |
|---|---|
| Vinyl Chloride | <10 |
| 1,2-Dichloroethene (total) | 2 J |
| Trichloroethene | <10 |
| TPH (GRO/DRO) | <50/<500 |

| GP-16 PARAMETER (ug/L) | 05/22/97 |
|---|---|
| Vinyl Chloride | <10 |
| 1,2-Dichloroethene (total) | <10 |
| Trichloroethene | <10 |
| TPH (GRO/DRO) | <50/<500 |

| GP-20 PARAMETER (ug/L) | 01/07/98 |
|---|---|
| Vinyl Chloride | <10 |
| 1,2-Dichloroethene (total) | <5 |
| Trichloroethene | <5 |
| TPH (GRO/DRO) | NS |

| GP-5 PARAMETER (ug/L) | 05/20/97 |
|---|---|
| Vinyl Chloride | <50000 |
| 1,2-Dichloroethene (total) | 34000 J |
| Trichloroethene | 830000 |
| TPH (GRO/DRO) | 327000/5600 J |

| GP-6 PARAMETER (ug/L) | 08/20/97 |
|---|---|
| Vinyl Chloride | <10 |
| 1,2-Dichloroethene (total) | <10 |
| Trichloroethene | <10 |
| TPH (GRO/DRO) | 5830 J/2400000 |

| GP-13 PARAMETER (ug/L) | 05/21/97 |
|---|---|
| Vinyl Chloride | 1 J |
| 1,2-Dichloroethene (total) | <10 |
| Trichloroethene | <10 |
| TPH (GRO/DRO) | <50/<500 |

| GP-17 PARAMETER (ug/L) | 01/07/98 |
|---|---|
| Vinyl Chloride | <10 |
| 1,2-Dichloroethene (total) | <5 |
| Trichloroethene | <5 |
| TPH (GRO/DRO) | NM |

| GP-9 PARAMETER (ug/L) | 08/21/97 |
|---|---|
| Vinyl Chloride | <20 |
| 1,2-Dichloroethene (total) | <20 |
| Trichloroethene | <20 |
| TPH (GRO/DRO) | 91800/11000 J |

| GP-11 PARAMETER (ug/L) | 05/21/97 |
|---|---|
| Vinyl Chloride | <10 |
| 1,2-Dichloroethene (total) | 4 J |
| Trichloroethene | <10 |
| TPH (GRO/DRO) | 470/800 J |

| GP-12 PARAMETER (ug/L) | 05/21/97 |
|---|---|
| Vinyl Chloride | 2 J |
| 1,2-Dichloroethene (total) | 16 |
| Trichloroethene | <10 |
| TPH (GRO/DRO) | <50/<530 |

| GP-14 PARAMETER (ug/L) | 05/21/97 |
|---|---|
| Vinyl Chloride | <10 |
| 1,2-Dichloroethene (total) | <10 |
| Trichloroethene | <10 |
| TPH (GRO/DRO) | <50/<500 |

| GP-10 PARAMETER (ug/L) | 05/21/97 |
|---|---|
| Vinyl Chloride | <10 |
| 1,2-Dichloroethene (total) | 7 J |
| Trichloroethene | 27 |
| TPH (GRO/DRO) | NA/<500 |

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|---|---|---|---|

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Albany, New York 12205
Tel: 518/452-7826 Fax: 518/452-4398

**CONCENTRATIONS OF VINYL CHLORIDE, DCE, TCE AND TPH IN GEOPROBE GROUNDWATER SAMPLES**

D.C. ROLLFORMS/INGERSOLL-RAND
JAMESTOWN, NEW YORK

| | |
|---|---|
| PROJECT MANAGER M. SANFORD | DRAWING NUMBER IR-13 |
| CHECKED BY M. SANFORD | PROJECT NUMBER AY0000219.0002 |
| DRAWN BY M. HORNBACH | FIGURE NUMBER 10 |
| DATE DRAWN 3/26/98 | |

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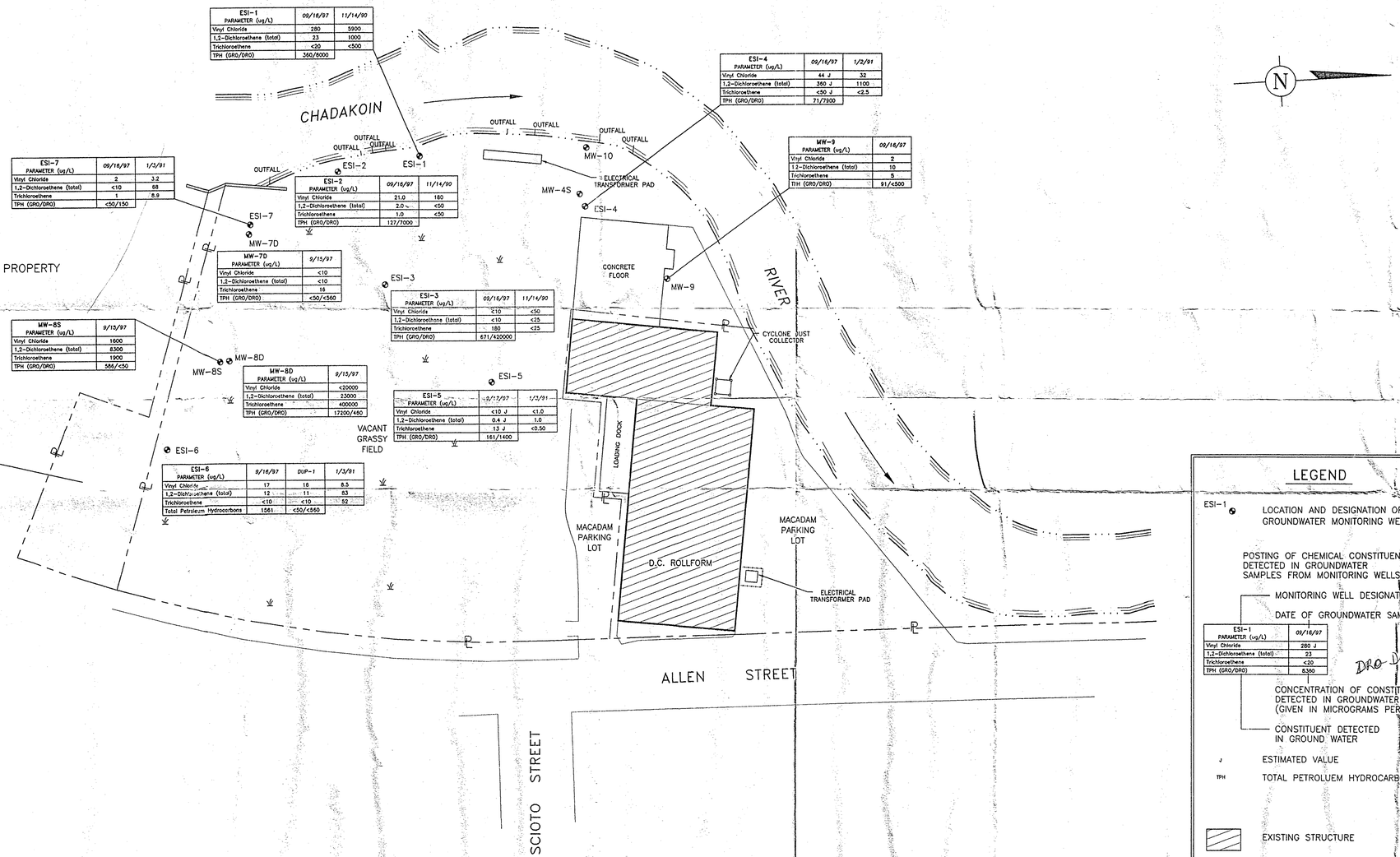


| ESI-1 PARAMETER (ug/L) | 09/16/97 | 11/14/90 |
|---|---|---|
| Vinyl Chloride | 280 | 5900 |
| 1,2-Dichloroethene (total) | 23 | 1000 |
| Trichloroethene | <20 | <500 |
| TPH (GRO/DRO) | 260/8000 | |

| ESI-2 PARAMETER (ug/L) | 09/16/97 | 11/14/90 |
|---|---|---|
| Vinyl Chloride | 21.0 | 180 |
| 1,2-Dichloroethene (total) | 2.0 | <50 |
| Trichloroethene | 1.0 | <50 |
| TPH (GRO/DRO) | 127/7000 | |

| ESI-3 PARAMETER (ug/L) | 09/16/97 | 11/14/90 |
|---|---|---|
| Vinyl Chloride | <10 | <50 |
| 1,2-Dichloroethene (total) | <10 | <25 |
| Trichloroethene | 180 | <25 |
| TPH (GRO/DRO) | 671/420000 | |

| ESI-4 PARAMETER (ug/L) | 09/16/97 | 1/2/91 |
|---|---|---|
| Vinyl Chloride | 44 J | 32 |
| 1,2-Dichloroethene (total) | 350 J | 1100 |
| Trichloroethene | <50 J | <2.5 |
| TPH (GRO/DRO) | 71/2900 | |

| ESI-5 PARAMETER (ug/L) | 9/17/97 | 1/3/91 |
|---|---|---|
| Vinyl Chloride | <10 J | <1.0 |
| 1,2-Dichloroethene (total) | 0.4 J | 1.0 |
| Trichloroethene | 1.3 J | <0.50 |
| TPH (GRO/DRO) | 161/1400 | |

| ESI-6 PARAMETER (ug/L) | 9/16/97 | DUP-1 | 1/3/91 |
|---|---|---|---|
| Vinyl Chloride | 17 | 16 | 8.5 |
| 1,2-Dichloroethene (total) | 12 | 11 | 83 |
| Trichloroethene | <10 | <10 | 52 |
| Total Petroleum Hydrocarbons | 1561 | <50/<860 | |

| ESI-7 PARAMETER (ug/L) | 09/16/97 | 1/3/91 |
|---|---|---|
| Vinyl Chloride | 2 | 3.2 |
| 1,2-Dichloroethene (total) | <10 | 68 |
| Trichloroethene | 1 | 8.9 |
| TPH (GRO/DRO) | <50/150 | |

| MW-7D PARAMETER (ug/L) | 9/15/97 |
|---|---|
| Vinyl Chloride | <10 |
| 1,2-Dichloroethene (total) | <10 |
| Trichloroethene | 16 |
| TPH (GRO/DRO) | <50/<560 |

| MW-8S PARAMETER (ug/L) | 9/15/97 |
|---|---|
| Vinyl Chloride | 1600 |
| 1,2-Dichloroethene (total) | 8300 |
| Trichloroethene | 1900 |
| TPH (GRO/DRO) | 566/<50 |

| MW-8D PARAMETER (ug/L) | 9/15/97 |
|---|---|
| Vinyl Chloride | <20000 |
| 1,2-Dichloroethene (total) | 23000 |
| Trichloroethene | 400000 |
| TPH (GRO/DRO) | 17200/460 |

| MW-9 PARAMETER (ug/L) | 09/16/97 |
|---|---|
| Vinyl Chloride | 2 |
| 1,2-Dichloroethene (total) | 10 |
| Trichloroethene | 5 |
| TPH (GRO/DRO) | 91/<500 |

## LEGEND

ESI-1 — LOCATION AND DESIGNATION OF GROUNDWATER MONITORING WELL

POSTING OF CHEMICAL CONSTITUENTS DETECTED IN GROUNDWATER SAMPLES FROM MONITORING WELLS

- MONITORING WELL DESIGNATION
- DATE OF GROUNDWATER SAMPLE

| ESI-1 PARAMETER (ug/L) | 09/16/97 |
|---|---|
| Vinyl Chloride | 280 J |
| 1,2-Dichloroethene (total) | 23 |
| Trichloroethene | <20 |
| TPH (GRO/DRO) | 8360 |

DRO - Diesel Range Organics

- CONCENTRATION OF CONSTITUENT DETECTED IN GROUNDWATER (GIVEN IN MICROGRAMS PER LITER)
- CONSTITUENT DETECTED IN GROUND WATER

J — ESTIMATED VALUE

TPH — TOTAL PETROLUEM HYDROCARBON

EXISTING STRUCTURE

0 20 40 FEET

NOTES:

1.) THIS DRAWING IS FOR ILLUSTRATIVE PURPOSES ONLY.

2.) ALL LOCATIONS ARE APPROXIMATE ONLY.

3.) DRAWING BASE FROM SURVEY PERFORMED BY PAUL W. SCHRECKGOST AND ASSOCIATES, DATED NOV. 23, 1996 REVISED MAY 23, 1997 AND AUG. 27, 1997.

4.) PREVIOUS SAMPLING LOCATIONS ADAPTED FROM A DRAWING BY EMPIRE SOILS INVESTIGATIONS INC., Dwg. No. BTA-90-179 MAY 1991 WHICH WAS DERIVED FROM A DRAWING BY DOWCRAFT INC.

| NO. | DATE | REVISION DESCRIPTION | BY / CKD |
|---|---|---|---|

ARCADIS GERAGHTY&MILLER
215 Washington Avenue Extension
Albany, New York 12205
Tel: 518/452-7826 Fax: 518/452-4398

**CONCENTRATIONS OF VINYL CHLORIDE, DCE, TCE AND TPH IN GROUNDWATER MONITORING WELL SAMPLES**

D.C. ROLLFORMS/INGERSOLL-RAND
JAMESTOWN, NEW YORK

| | |
|---|---|
| PROJECT MANAGER M. SANFORD | DRAWING NUMBER IR-10 |
| CHECKED BY M. SANFORD | PROJECT NUMBER AY0000219.0002 |
| DRAWN BY M. HORNBACH | FIGURE NUMBER 11 |
| DATE DRAWN 2/26/98 | |

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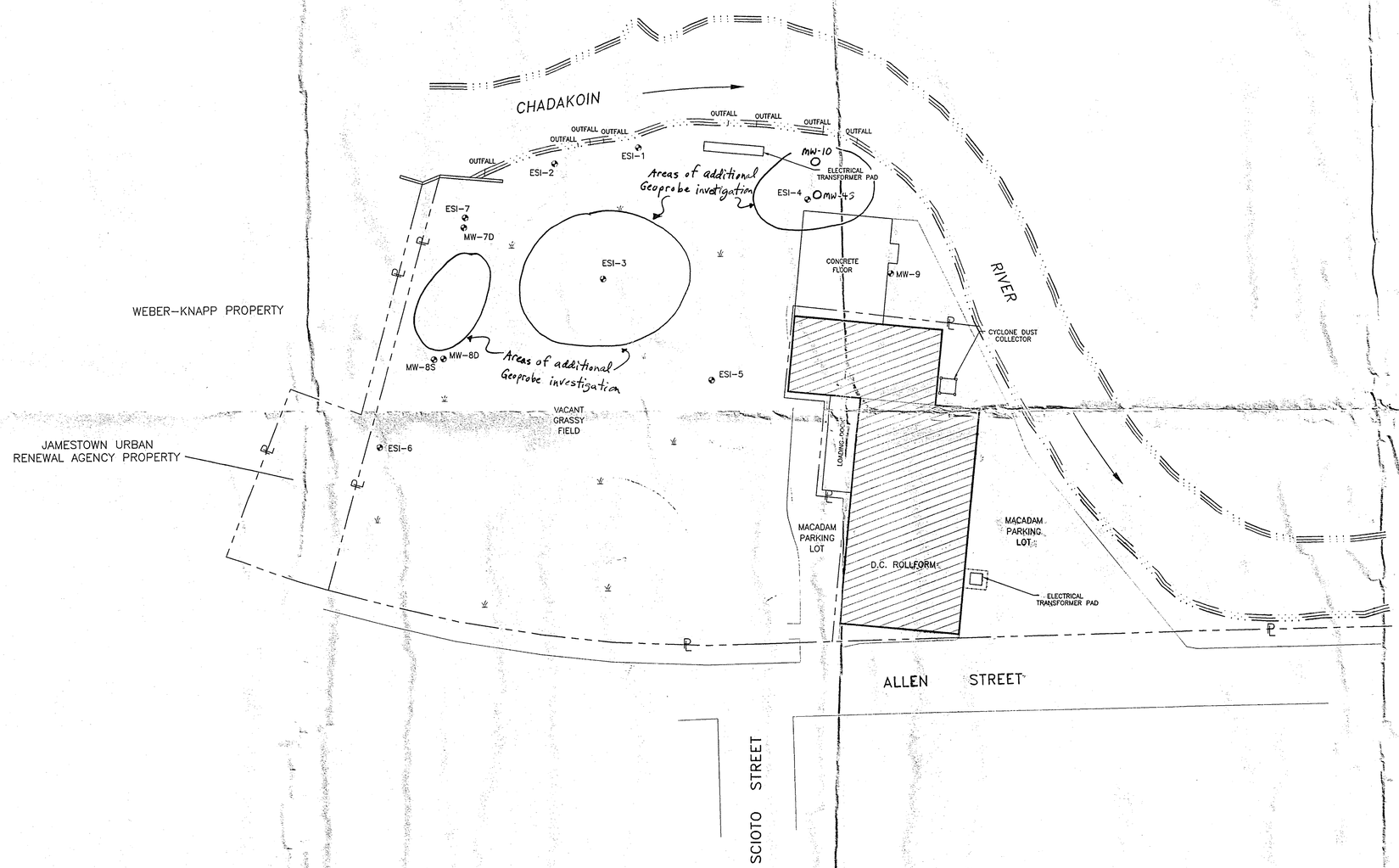


## LEGEND

| | |
|---|---|
| ESI-1 | LOCATION AND DESIGNATION OF GROUND WATER MONITORING WELL |
| ESI-6A | LOCATION AND DESIGNATION OF PREVIOUS SOIL BORING |
| | EXISTING STRUCTURE |
| MW-10 | Proposed well location |

0 10 20 40 FEET

NOTES:

1.) THIS DRAWING IS FOR ILLUSTRATIVE PURPOSES ONLY.
2.) ALL LOCATIONS ARE APPROXIMATE ONLY.
3.) DRAWING BASE FROM SURVEY PERFORMED BY PAUL W. SCHRECKGOST AND ASSOCIATES, DATED NOV. 23, 1996 REVISED MAY 23, 1997 AND AUG. 27, 1997.
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GERAGHTY & MILLER, INC.
*Environment and Infrastructure*
A Heidemij Company

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|---|---|---|---|---|
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|---|---|
| PROJECT NO.: AY02219.001 | HARD FILE: – |
| DRAWING: IR-4 | PLOT SIZE: 1=40 |
| DRAFTED BY: M. HORNBACH | DATE: 10/30/97 |
| CHECKED BY: M. SANFORD | DATE: |
| APPROVED BY: M. SANFORD | DATE: |

# EXISTING SITE FEATURES

D.C. ROLLFORMS/INGERSOLL-RAND SITE
JAMESTOWN, NEW YORK

FIGURE
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