

HSI GEOTRANS

A TETRA TECH COMPANY

175 N. Corporate Drive
Suite 100
Brookfield, Wisconsin
53045

414-792-1282 FAX 414-792-1310

To: WISCONSIN DEPT.
OF NATURAL RESOURCES
625 E. COUNTY RD. Y, STE 700
OSHKOSH, WI 54901-9731

Date: 11/22/99
Subject: Better Brte
FIGURES

Attn: JOHN SAGER

Job. No. F119

We are sending the following: Herewith Under Separate Cover

# of Copies	Item
1	Zinc Shop Foundation Drain Layout
1	Zinc Shop Utility Layout
1	Diagram of Wedge under Storm Drain
1	Treatment Building As-Built
1	Chrome shop storm Drain Location west side

Comments: Hi, John. Here are the figures requested. If you have any questions, don't hesitate to call. 262-792-1282

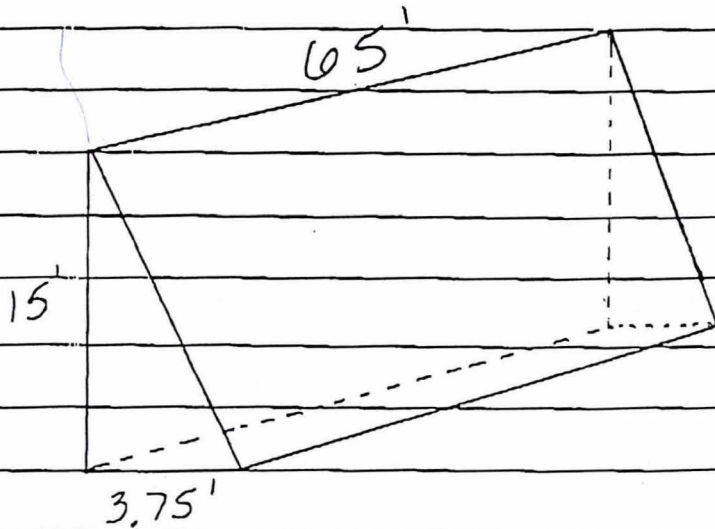
Keith

Transmitted by:

- First Class Mail
- Federal Express
- Express Mail
- Messenger
- Other

By: KEITH BECKER
Keith Becker

Paula



$$\frac{65 \times 15 \times 3.75}{2} = 1828.125$$

John,

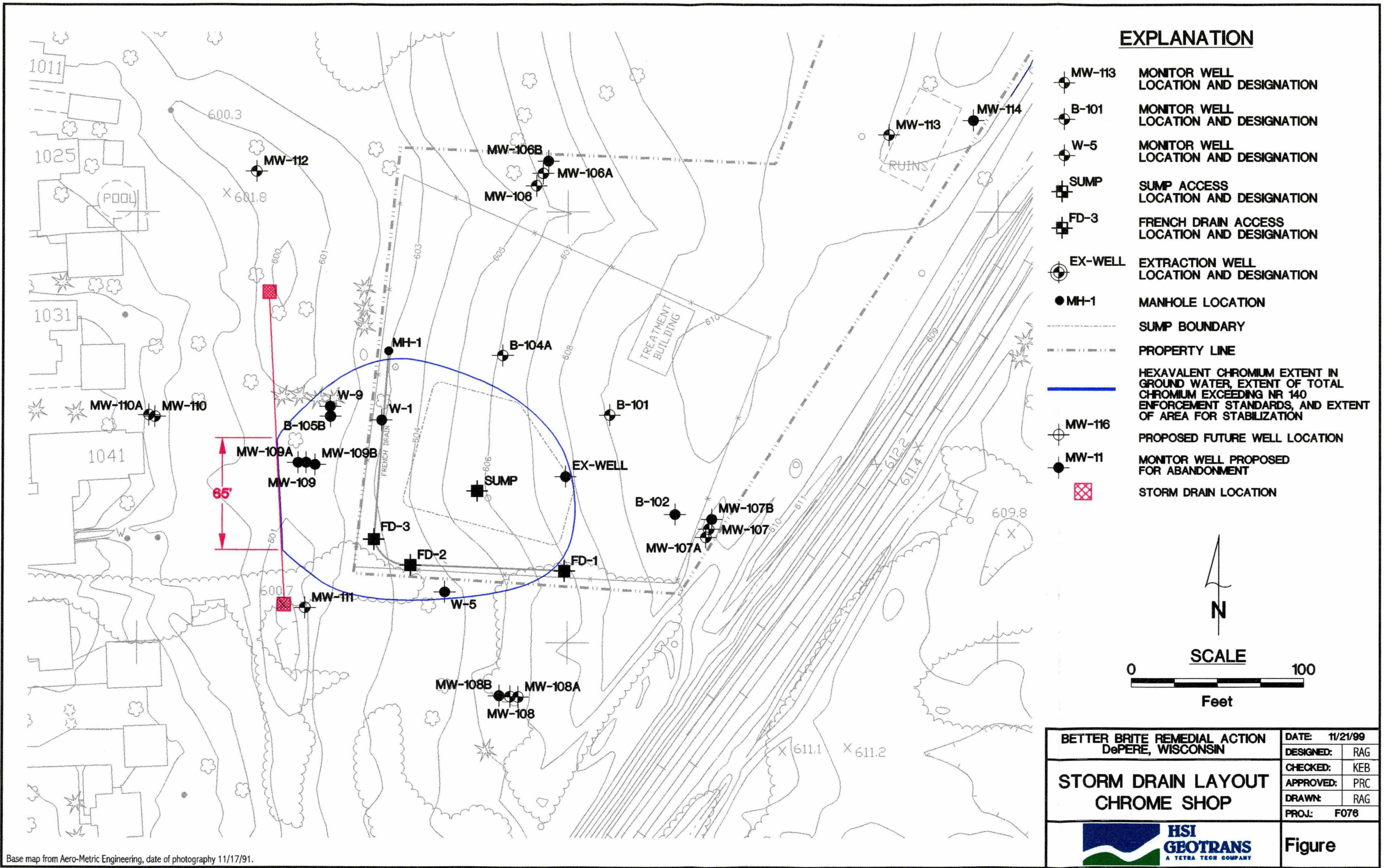
This is the area that Keith measured out for the soil not stabilized due to the presence of the storm sewer. We can up the volume from 60 CY to 70 CY (justifiably) on the change order.

-Paula

Cubic feet

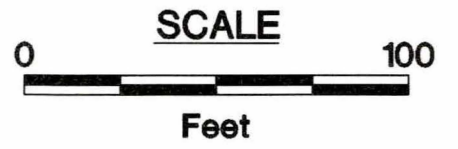
$$\frac{28.125}{27} = \underline{\underline{67.7}} \text{ Cubic yards of soil}$$

11/19/99



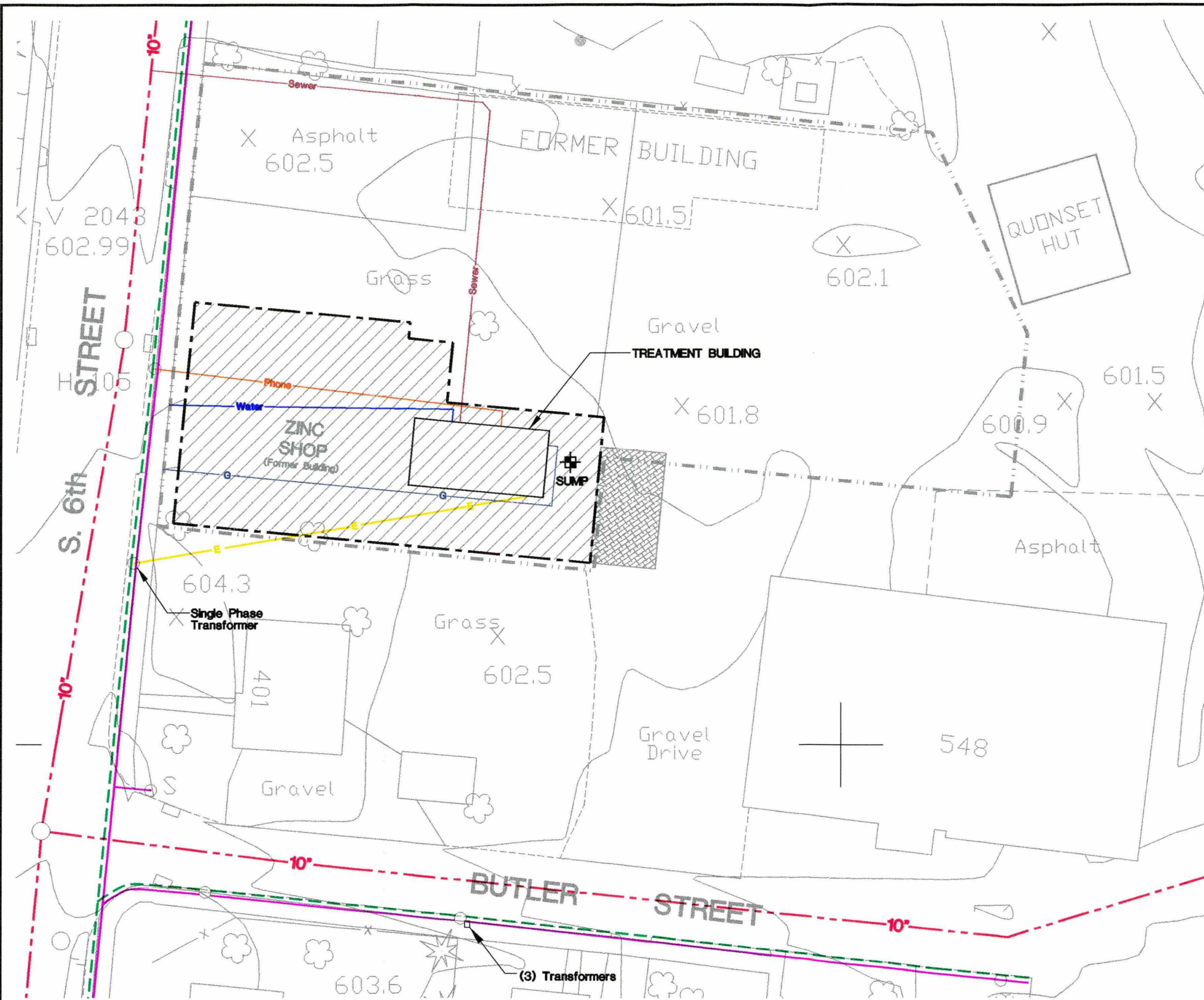
EXPLANATION

- MW-113 MONITOR WELL LOCATION AND DESIGNATION
- B-101 MONITOR WELL LOCATION AND DESIGNATION
- W-5 MONITOR WELL LOCATION AND DESIGNATION
- SUMP SUMP ACCESS LOCATION AND DESIGNATION
- FD-3 FRENCH DRAIN ACCESS LOCATION AND DESIGNATION
- EX-WELL EXTRACTION WELL LOCATION AND DESIGNATION
- MH-1 MANHOLE LOCATION
- SUMP BOUNDARY
- PROPERTY LINE
- HEXAVALENT CHROMIUM EXTENT IN GROUND WATER, EXTENT OF TOTAL CHROMIUM EXCEEDING NR 140 ENFORCEMENT STANDARDS, AND EXTENT OF AREA FOR STABILIZATION
- MW-116 PROPOSED FUTURE WELL LOCATION
- MW-11 MONITOR WELL PROPOSED FOR ABANDONMENT
- STORM DRAIN LOCATION



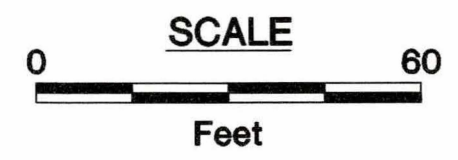
BETTER BRITE REMEDIAL ACTION DePERE, WISCONSIN	DATE: 11/21/99
	DESIGNED: RAG
STORM DRAIN LAYOUT CHROME SHOP	CHECKED: KEB
	APPROVED: PRC
	DRAWN: RAG
	PROJ: F076
Figure	

Base map from Aero-Metric Engineering, date of photography 11/17/91.



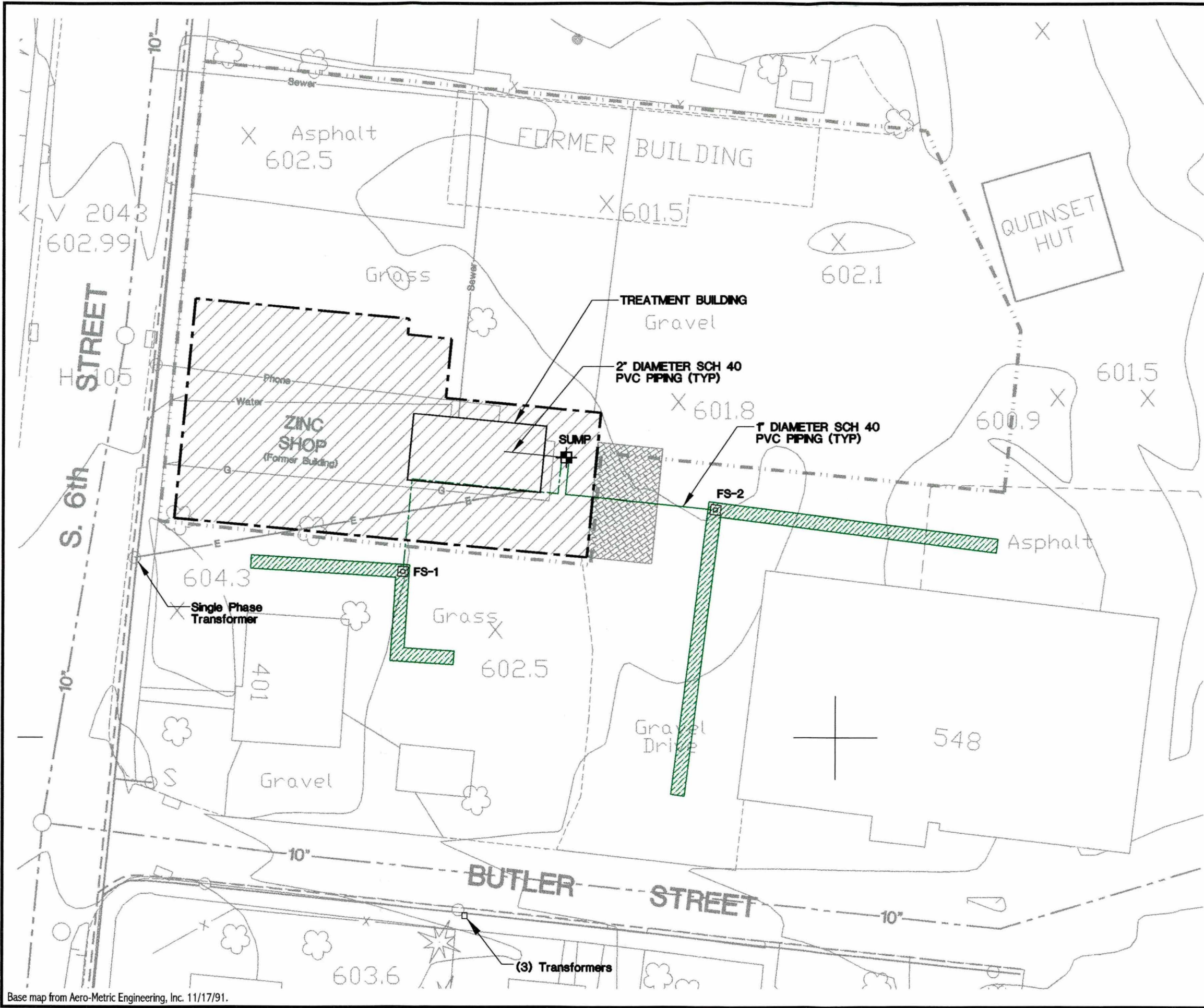
EXPLANATION

- SUMP ACCESS LOCATION AND DESIGNATION
- GROUND WATER COLLECTION SYSTEM EXCAVATION COMPLETED IN 1993
- GROUND WATER COLLECTION SUMP EXCAVATION COMPLETED IN 1990
- PROPERTY LINE
- SUMP BOUNDARY
- SANITARY SEWER MAIN
- WISCONSIN PUBLIC SERVICE OVERHEAD CABLE
- AMERITECH UNDERGROUND CABLE
- GAS LINE
- TELEPHONE LINE
- WATER MAIN
- ELECTRIC LINE
- SEWER LINE



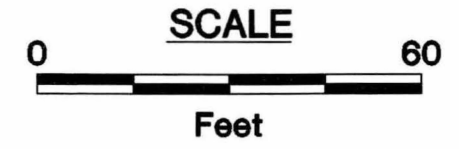
BETTER BRITE DePERE, WISCONSIN UTILITY LOCATIONS FOR THE ZINC SHOP	DATE: 11/16/99
	DESIGNED: BOB
	CHECKED: KEB
	APPROVED: PRC
	DRAWN: BOB
	PROJ: F119
Figure	

Base map from Aero-Metric Engineering, Inc. 11/17/91.



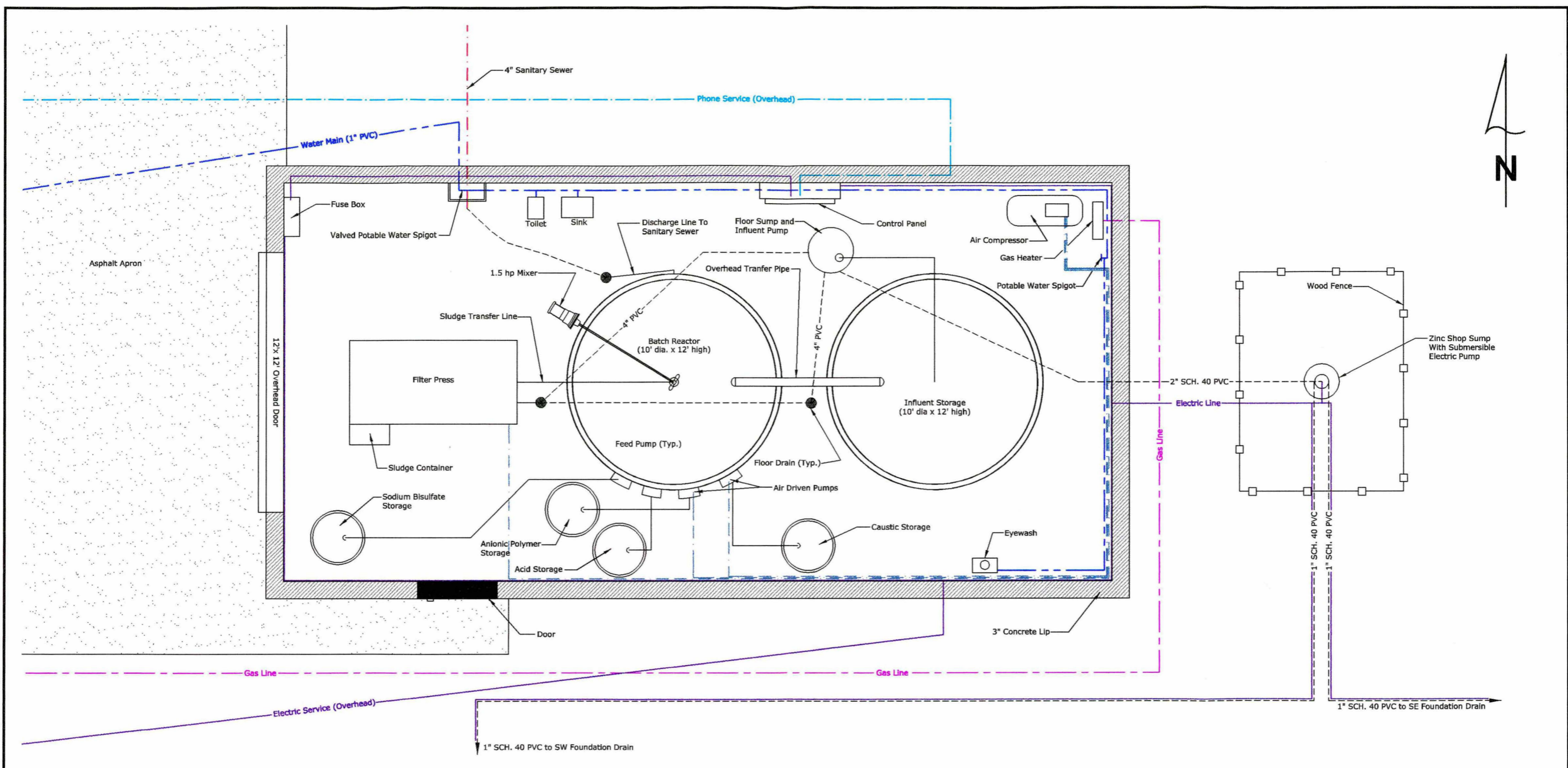
EXPLANATION

- SUMP** SUMP ACCESS LOCATION AND DESIGNATION
- GROUND WATER COLLECTION SYSTEM EXCAVATION COMPLETED IN 1993**
- GROUND WATER COLLECTION SUMP EXCAVATION COMPLETED IN 1990**
- PROPERTY LINE**
- SUMP BOUNDARY**



BETTER BRITE REMEDIAL ACTION DePERE, WISCONSIN	DATE: 11/16/99
	DESIGNED: BOB
FOUNDATION DRAINS LAYOUT ZINC SHOP	CHECKED: KEB
	APPROVED: PRC
	DRAWN: BOB
	PROJ: F119
Figure	

Base map from Aero-Metric Engineering, Inc. 11/17/91.



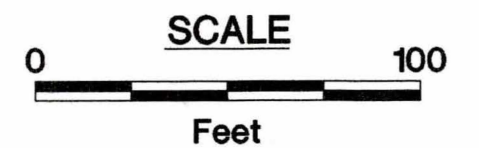
Not To Scale

Note: All lines are underground lines unless otherwise noted.

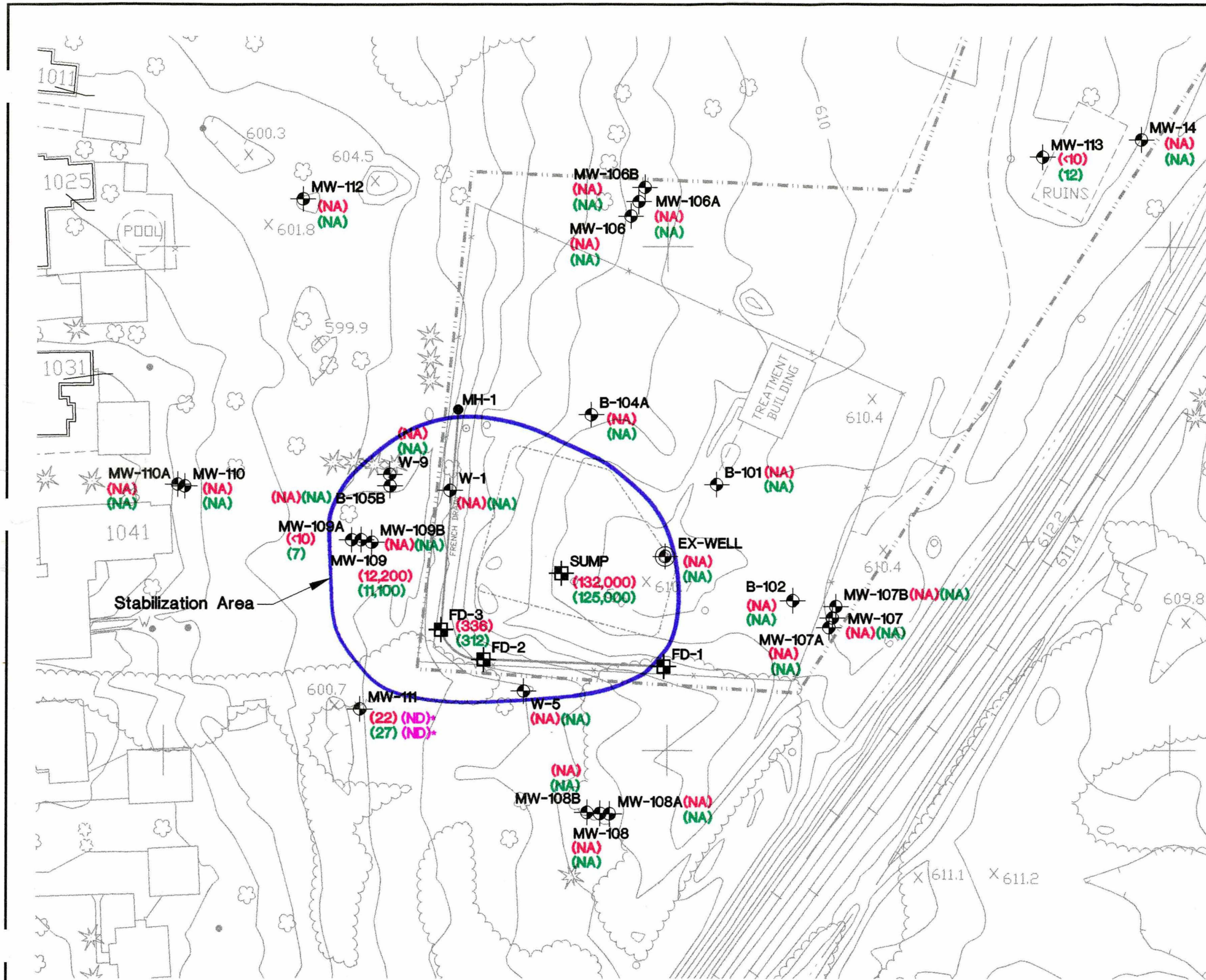
BETTER BRITE REMEDIAL ACTION DE PERE, WISCONSIN		DATE: 11/19/99
TREATMENT BUILDING AS-BUILT		DESIGNED: BOB
		CHECKED: KEB
		APPROVED: PRC
		DRAWN: BOB
		PROJ:
		Figure

EXPLANATION

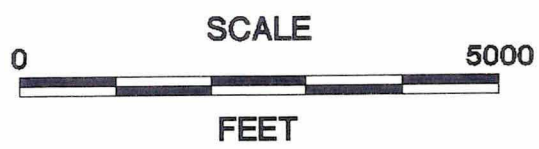
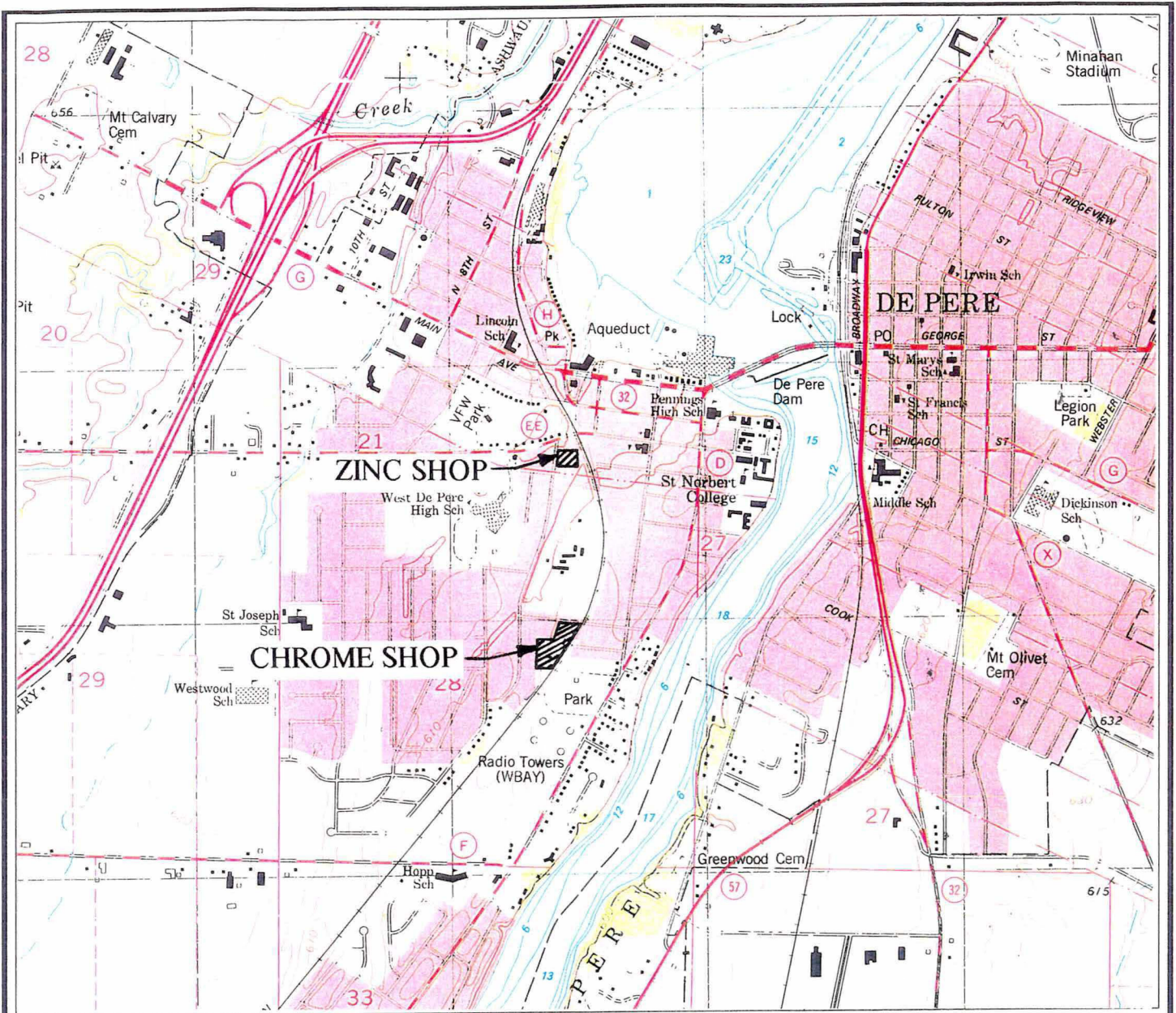
- MW-113 MONITOR WELL LOCATION AND DESIGNATION
- B-101 MONITOR WELL LOCATION AND DESIGNATION
- W-5 MONITOR WELL LOCATION AND DESIGNATION
- SUMP SUMP ACCESS LOCATION AND DESIGNATION
- FD-3 FRENCH DRAIN ACCESS LOCATION AND DESIGNATION
- EX-WELL EXTRACTION WELL LOCATION AND DESIGNATION
- MH-1 MANHOLE LOCATION
- (<10) HEXAVALENT CHROMIUM CONCENTRATION IN GROUND WATER (ppb)
- (<3.6) TOTAL CHROMIUM CONCENTRATION IN GROUND WATER (ppb)
- (NA) NOT AVAILABLE
- (ND)+ WDNR RESAMPLING OF MW-111 ON 11/9/98 REVEALED NO DETECTABLE OR HEXAVALENT CHROMIUM AT THIS LOCATION
- HEXAVALENT CHROMIUM EXTENT IN GROUND WATER AND EXTENT OF TOTAL CHROMIUM EXCEEDING NR 140 ENFORCEMENT STANDARDS
- SUMP BOUNDARY
- PROPERTY LINE
- 1011 BASEMENT SUMP SAMPLING LOCATION



BETTER BRITE DePERE, WISCONSIN	DATE: 11/30/98 DESIGNED: RAG CHECKED: JLF APPROVED: JLF DRAWN: RAG PROJ: F076
PROPOSED CHROME SHOP STABILIZATION AREA	
	Figure 4-1



Base map from Aero-Metric Engineering, date of photography 11/17/91.



National Geodetic Vertical Datum of 1929
Contour Interval 10 Feet

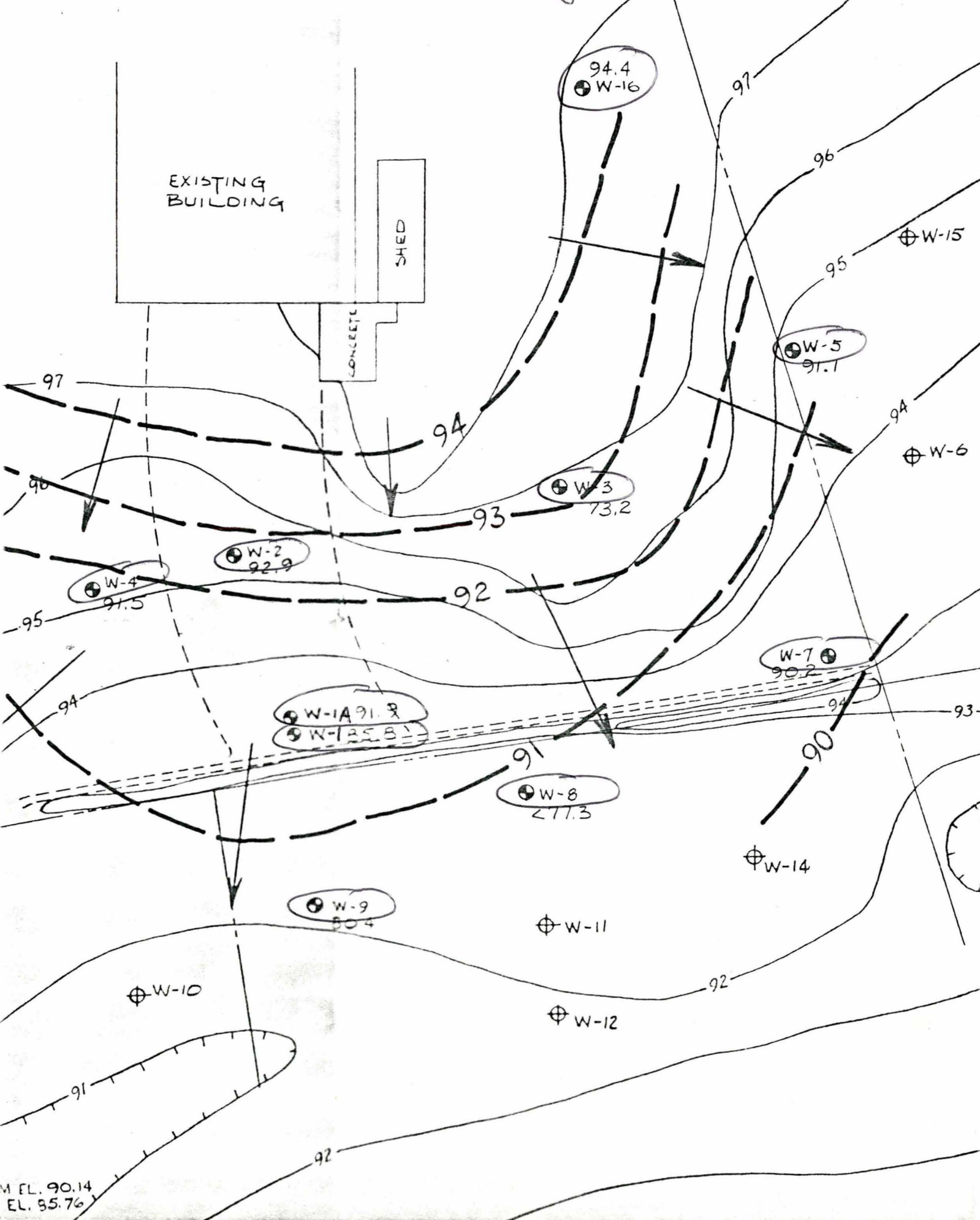


QUADRANGLE LOCATION

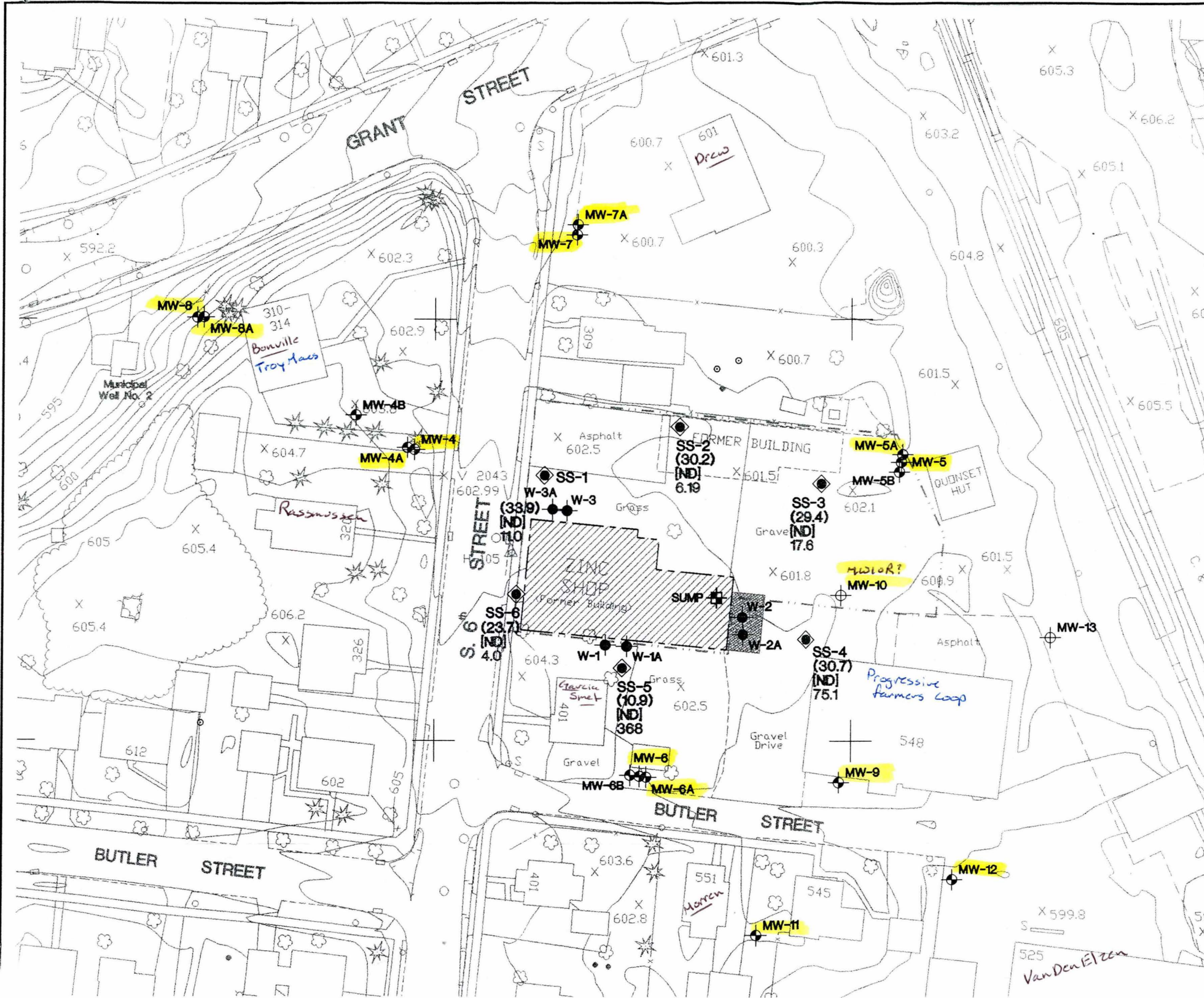
Base map from U.S.G.S. 7.5' DePERE, WISCONSIN
topographic quadrangle map, photorevised 1982.

BETTER BRITE DePERE, WISCONSIN	DATE: 06/05/95
SITE LOCATION and LOCAL TOPOGRAPHY	DESIGNED: RAG
	CHECKED: JEN
	APPROVED: JLF
	DRAWN: RAG
PROJ: 301483158	
HYDRO-SEARCH, INC A Tetra Tech Company	
Figure 2-1	

Loca' on of Monitoring Well.



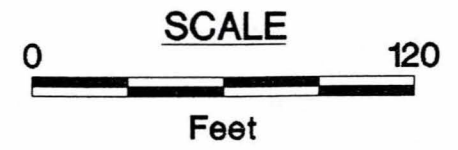
M FL. 90.14
EL. 85.76



EXPLANATION

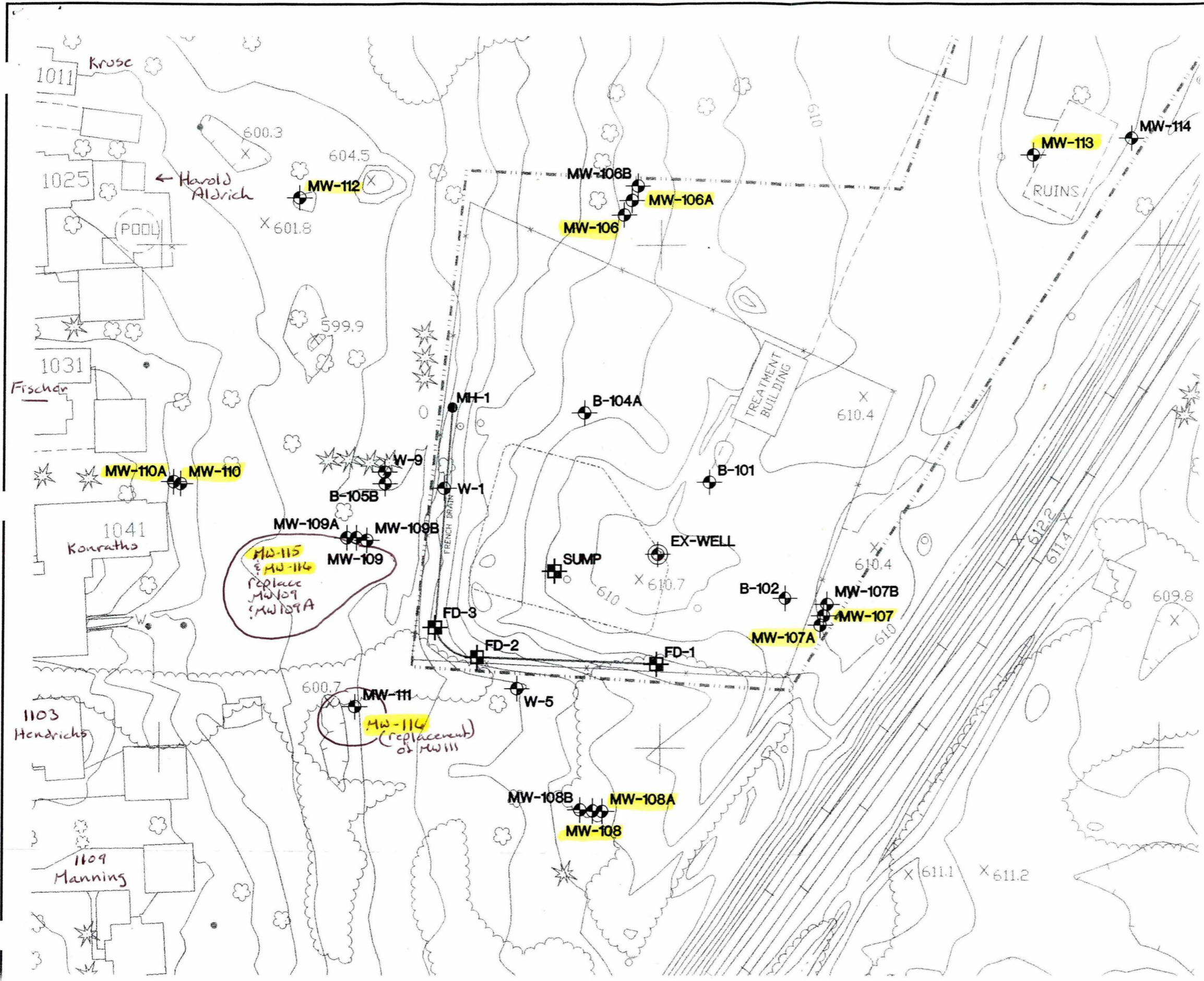
- MW-9 MONITOR WELL LOCATION AND DESIGNATION
- SUMP SUMP ACCESS LOCATION AND DESIGNATION
- MW-3 ABANDONED MONITOR WELL LOCATION AND DESIGNATION
- MW-13 NON LOCATABLE LOCATION AND DESIGNATION
- SS-5 SOIL SAMPLE LOCATION AND DESIGNATION
- SUMP BOUNDARY
- (29.4) TOTAL (mg/kg)
- [ND] HEXAVALENT CHROMIUM CONCENTRATION (mg/kg)
- 17.6 LEAD CONCENTRATION (mg/kg)

Part of Post Remediation Sample Plan



BETTER BRITE DePERE, WISCONSIN	DATE: 09/28/98
	DESIGNED: BOB
1998 SHALLOW SOIL SAMPLE LOCATIONS ZINC SHOP	CHECKED: JLF
	APPROVED: JLF
	DRAWN: BOB
	PROJ: F076
 HSI GEOTRANS <small>A TETRA TECH COMPANY</small>	
Figure 2-11	

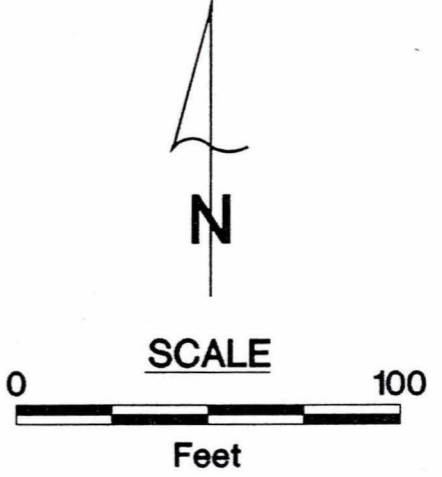
map from Aero-Metric Engineering, Inc. 11/17/91.



EXPLANATION

- MW-113 MONITOR WELL LOCATION AND DESIGNATION
- B-101 MONITOR WELL LOCATION AND DESIGNATION
- W-5 MONITOR WELL LOCATION AND DESIGNATION
- SUMP SUMP ACCESS LOCATION AND DESIGNATION
- FD-3 FRENCH DRAIN ACCESS LOCATION AND DESIGNATION
- ⊙ EX-WELL EXTRACTION WELL LOCATION AND DESIGNATION
- MH-1 MANHOLE LOCATION
- SUMP BOUNDARY
- - - - - PROPERTY LINE

Note : Property Boundary is Approximate
 Part of Post Remediation Sample Plan




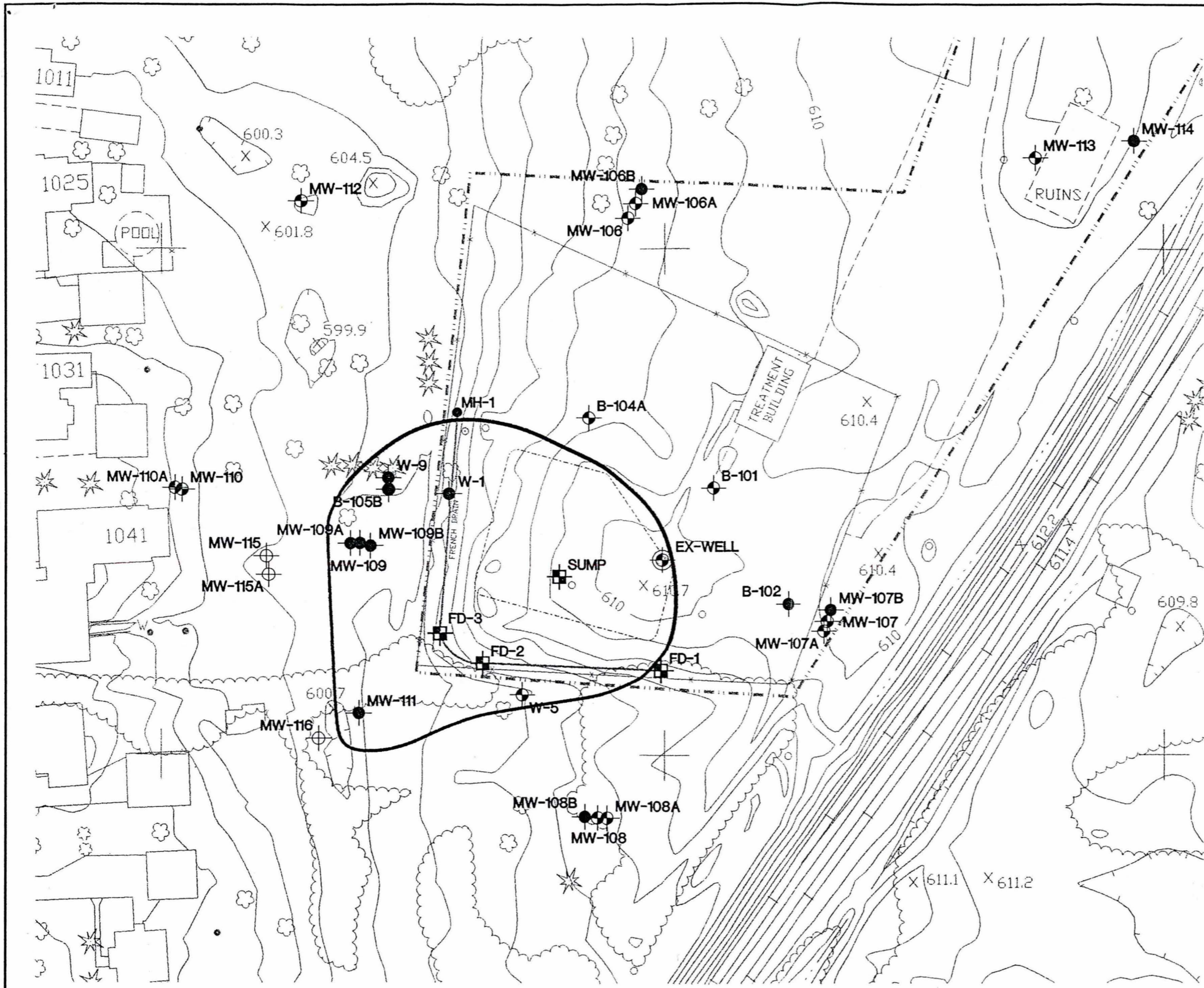
BETTER BRITE DePERE, WISCONSIN SITE LAYOUT AND EXISTING CONDITIONS CHROME SHOP	DATE: 09/28/98
	DESIGNED: RAG
	CHECKED: JLF
	APPROVED: JLF
	DRAWN: RAG
	PROJ: F076

Figure 2-2

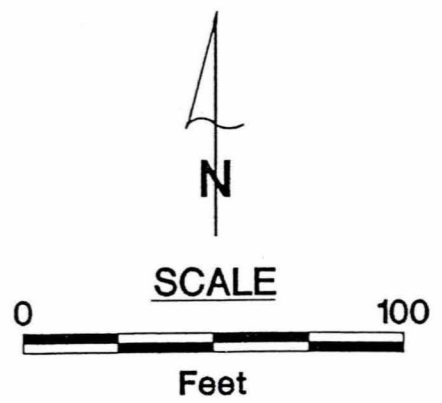
Use map from Aero-Metric Engineering, date of photography 11/17/91.



EXPLANATION

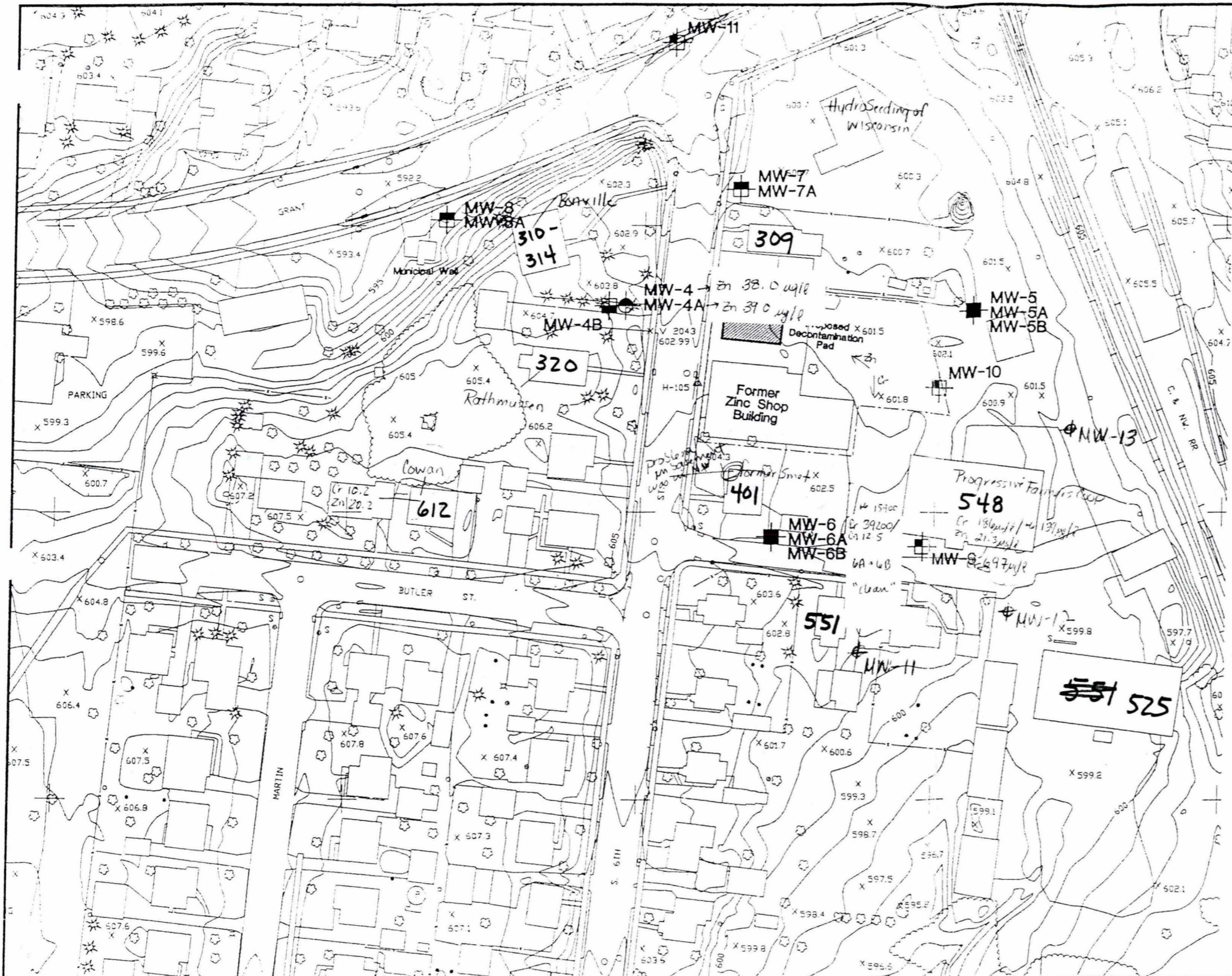
- MW-113 MONITOR WELL LOCATION AND DESIGNATION
- B-101 MONITOR WELL LOCATION AND DESIGNATION
- W-5 MONITOR WELL LOCATION AND DESIGNATION
- SUMP SUMP ACCESS LOCATION AND DESIGNATION
- FD-3 FRENCH DRAIN ACCESS LOCATION AND DESIGNATION
- EX-WELL EXTRACTION WELL LOCATION AND DESIGNATION
- MH-1 MANHOLE LOCATION
- SUMP BOUNDARY
- PROPERTY LINE
- HEXAVALENT CHROMIUM EXTENT IN GROUND WATER, EXTENT OF TOTAL CHROMIUM EXCEEDING NR 140 ENFORCEMENT STANDARDS, AND EXTENT OF AREA FOR STABILIZATION
- MW-116 PROPOSED FUTURE WELL LOCATION
- MW-11 MONITOR WELL PROPOSED FOR ABANDONMENT

Note : Property Boundary is Approximate








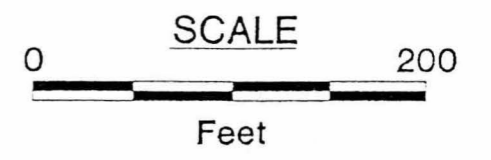
BETTER BRITE DePERE, WISCONSIN	DATE: 10/13/98 DESIGNED: RAG CHECKED: JLF APPROVED: JLF DRAWN: RAG PROJ: F076
<h2>SITE LAYOUT CHROME SHOP</h2>	
 HSI GEOTRANS <small>A TETRA TECH COMPANY</small>	Figure 1-2

Base map from Aero-Metric Engineering, date of photography 11/17/91.



EXPLANATION

-  MW-4 SHALLOW WELL INSTALLED BY USEPA IN 1993 (-15')
-  MW-4A INTERMEDIATE WELL INSTALLED BY USEPA IN 1993 (-30')
-  MW-11 PROPOSED SHALLOW WELL LOCATION AND DESIGNATION (-15')
-  MW-8A PROPOSED INTERMEDIATE WELL LOCATION AND DESIGNATION (-30')
-  MW-6B PROPOSED BEDROCK WELL LOCATION AND DESIGNATION (-60')



snip sampling

SIMON HYDRO-SEARCH

Brookfield Lakes Corporate Center XII
175 N. Corporate Drive, Suite 100
Brookfield, Wisconsin 53045

BETTER BRITE
DePERE, WISCONSIN

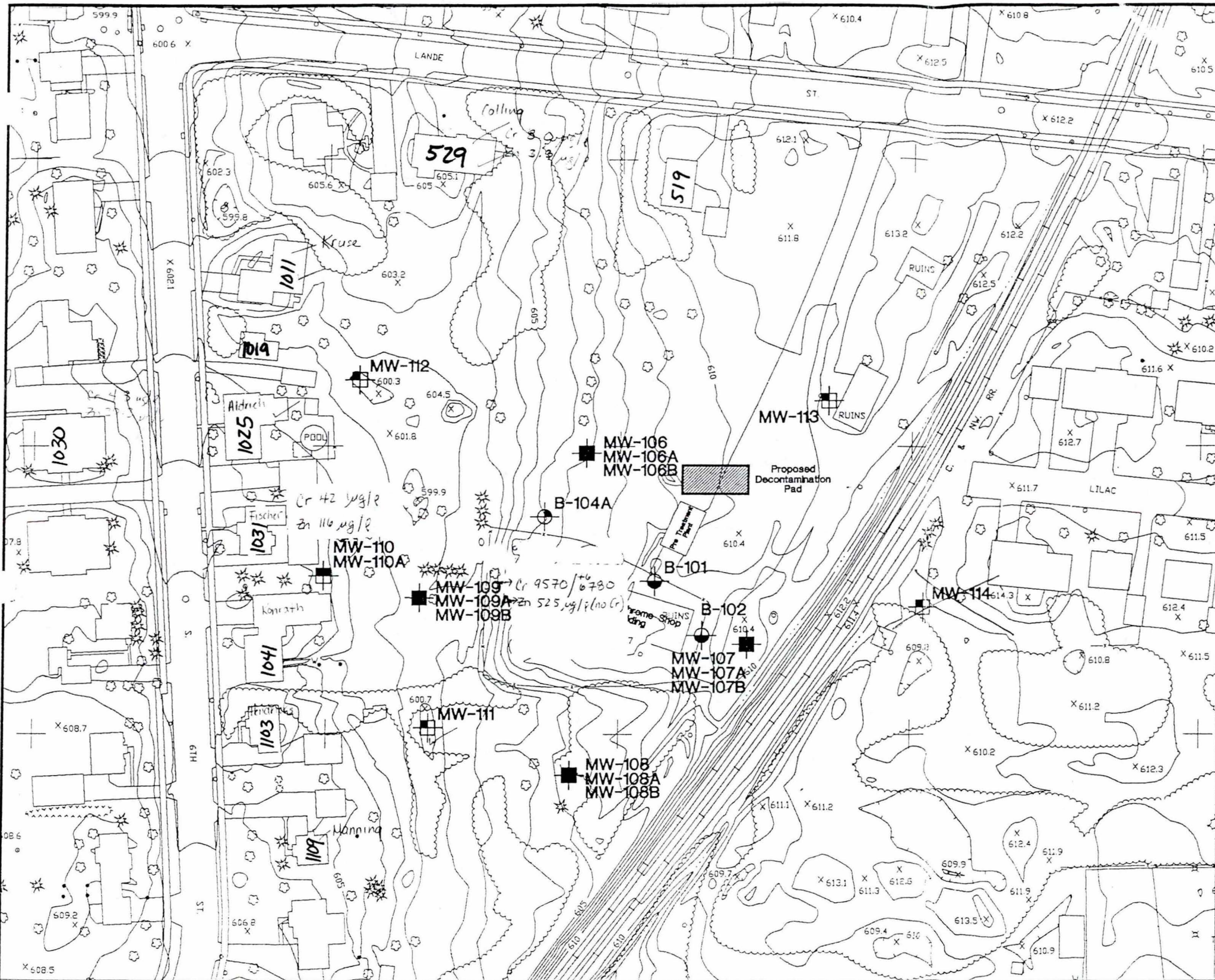
**SUBTASK - 1Z : PROPOSED
MONITOR WELL LOCATIONS**

Dsgn. by: *RAG* Chk. by: *[Signature]* Apprv. by: *[Signature]*






PROJECT: 301483158 DATE: 02/22/94

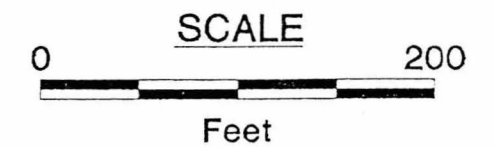
DRAWING: 3158-zb1 FIGURE: 4-1

Base map from Aero-Metric Engineering, Inc., date of photography 11/17/91.



EXPLANATION

- 
MW-11 PROPOSED SHALLOW WELL LOCATION AND DESIGNATION (~15')
- 
MW-8A PROPOSED INTERMEDIATE WELL LOCATION AND DESIGNATION (~30')
- 
MW-6B PROPOSED BEDROCK WELL LOCATION AND DESIGNATION (~60')
- 
B-104A EXISTING INTERMEDIATE WELL LOCATION AND DESIGNATION (~30')
- 
B-102 EXISTING BEDROCK WELL LOCATION AND DESIGNATION (~60')



Jump sampling

HS SIMON HYDRO-SEARCH

Brookfield Lakes Corporate Center XII
175 N. Corporate Drive, Suite 100
Brookfield, Wisconsin 53045

Dsgn. by: *BAG* Chk. by: *VJZ* Apprv. by: *[Signature]*

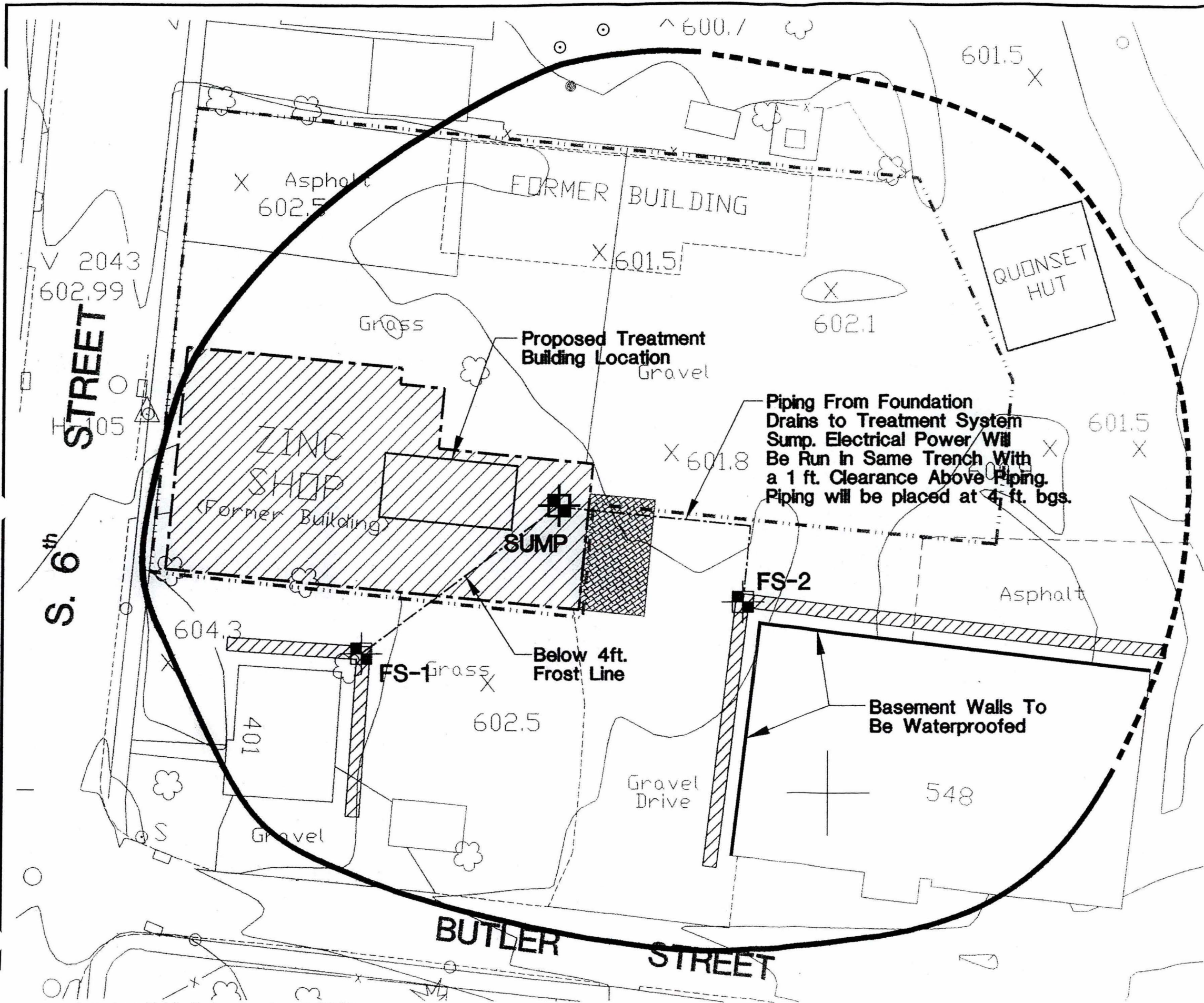
PROJECT: 301483158 DATE: 02/22/94

BETTER BRITE
DePERE, WISCONSIN

**SUBTASK - 1C : PROPOSED
MONITOR WELL LOCATIONS**

DRAWING: 3158-cb2 FIGURE: 7-1

Base map from Aero-Metric Engineering, Inc., date of photography 11/17/91.



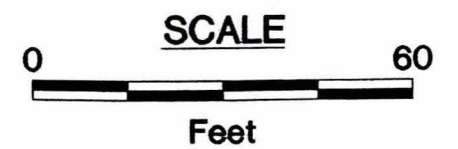
EXPLANATION

- SUMP SUMP ACCESS LOCATION AND DESIGNATION
- FS-1 PROPOSED FOUNDATION SUMP LOCATION AND DESIGNATION
- PROPOSED FOUNDATION DRAINS
- GROUND WATER COLLECTION SYSTEM EXCAVATION COMPLETED IN 1993
- GROUND WATER COLLECTION SUMP EXCAVATION COMPLETED IN 1990
- EXTENT OF DETECTABLE HEXAVALENT CHROMIUM IN GROUND WATER AND EXTENT OF TOTAL CHROMIUM EXCEEDING NR 140 ENFORCEMENT STANDARDS
- PROPERTY LINE
- SUMP BOUNDARY

Piping From Foundation Drains to Treatment System Sump. Electrical Power Will Be Run in Same Trench With a 1 ft. Clearance Above Piping. Piping will be placed at 4 ft. bgs.

Below 4ft. Frost Line

Basement Walls To Be Waterproofed



BETTER BRITE DePERE, WISCONSIN	DATE: 11/30/98
PROPOSED TREATMENT BUILDING LOCATION AND FOUNDATION SUMPS AND DRAINS	DESIGNED: BOB
	CHECKED: JLF
	APPROVED: JLF
	DRAWN: BOB
	PROJ: F076
 HSI GEOTRANS <small>A TETRA TECH COMPANY</small>	
Figure 5-1	

Map from Aero-Metric Engineering, Inc. 11/17/91.