

WAGNER ELECTRIC

|||||

River Des Peres

=====

Interior Walls

xxx

Tunnel

=====

Railroad Tracks

Building Number

9

FIGURE 1

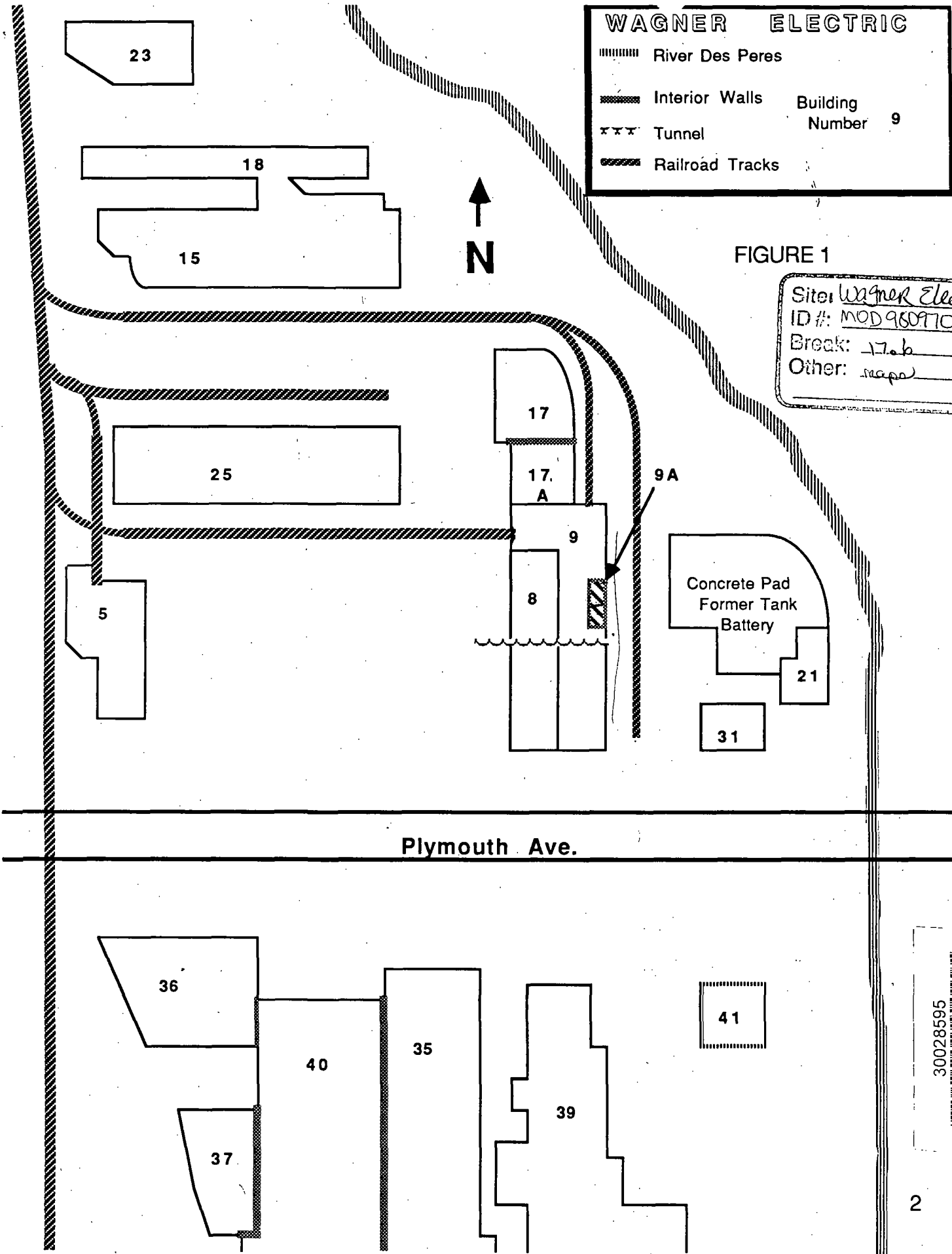
Site: Wagner Electric

ID #: MOD 9809110032

Break: 17.6b

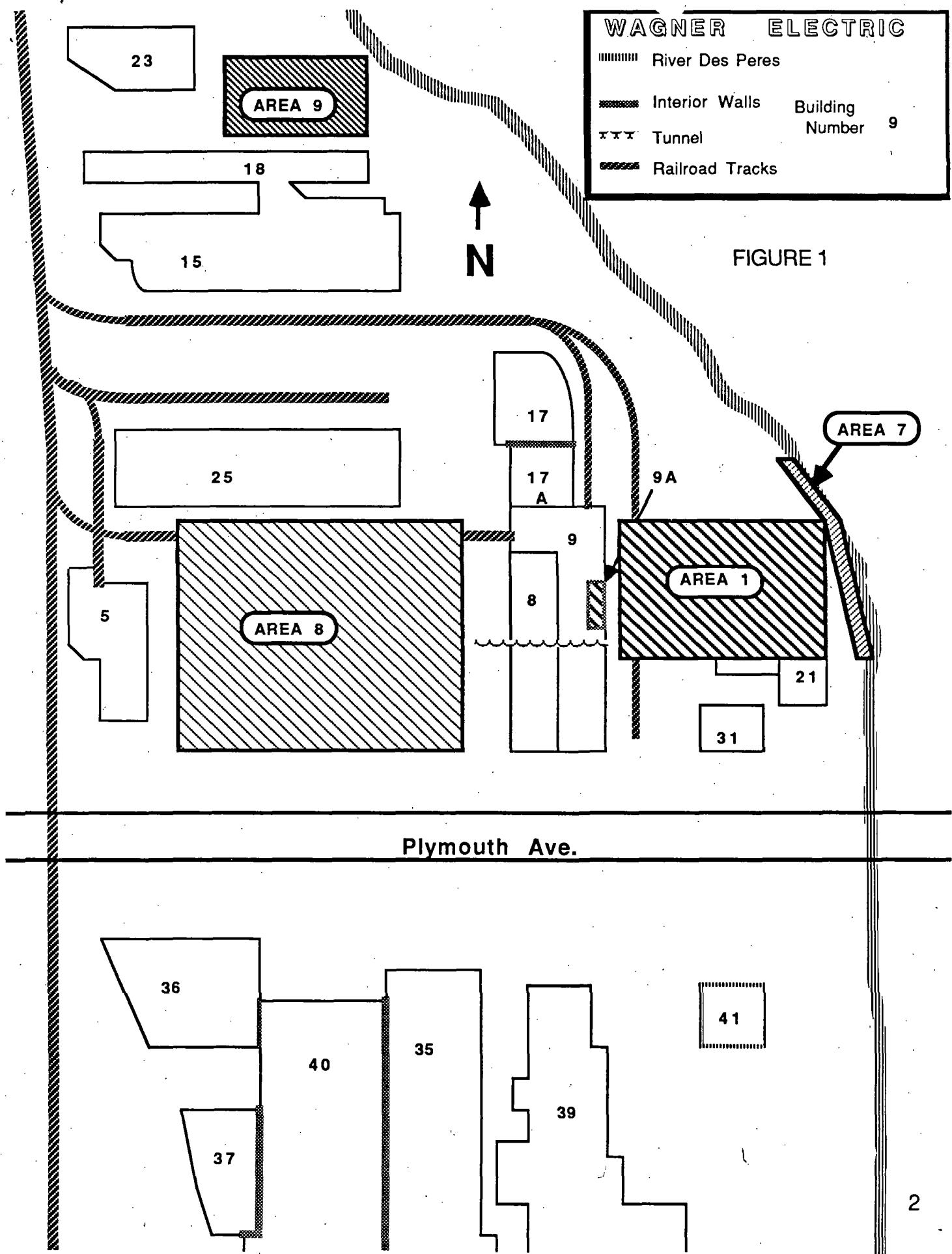
Other: scaps

nld



30028595

Superfund



WAGNER ELECTRIC

- ||||| River Des Peres
 - - - Interior Walls
 - x x x Tunnel
 - + + + Railroad Tracks
- Building Number 9



FIGURE 1

Plymouth Ave.

WAGNER ELECTRIC COMPARISON OF CONTAMINATION BEFORE & AFTER REMEDIATION

DATE: April 19, 1988

PAGE 1 OF 4

AREA	BUILDING NUMBER	SECTION NUMBER	CONCENTRATION BEFORE REMEDIATION	CONCENTRATION AFTER REMEDIATION
1	PAD	1 2	38 PPM 61 PPM	N/S - AREA SEALED WITH HDPE  100 PPM 280 PPM 24 PPM 48 PPM 400 PPM 610 PPM
	BORING 1	1.5' 1.5'-3.0' 3'-4' 4.5'-6'	47 PPM 51 PPM 20 PPM 3 PPM	
	BORING 2	2'-4' 4'-6'	1.4 PPM 0.84 PPM	
	BORING 3	0-2' 2'-4' 4'-6'	42 PPM 3.5 PPM 1.2 PPM	
	BORING 4	0-2' 2'-4'	43 PPM 0.68 PPM	
	BORING 5A*	0-2' 2'-4'	74 PPM 2.5 PPM	
	BORING 6*	0-2' 2'-4'	0.21 PPM 2.8 PPM	
	BORING 7*	0-2' 2'-4' 4'-6'	93 PPM 34 PPM 140 PPM	
	BORING 8*	0-2' 2'-4' 4'-6'	0.69 PPM 0.71 PPM LT 0.20 PPM	
	BORING 9*	0-2' 4.5'-6.5'	25 PPM 450 PPM	
	BORING 10	0-2' 2'-4' 4'-4.75' 4.75'-6'	100 PPM 410 PPM 65 PPM 59 PPM	
	RAILROAD TRACKS (Areas from south to north)	AREA 1 AREA 2 AREA 3 AREA 4 AREA 5		
2	9	SAMPLE 1	130 PPM	N/S - AREA SEALED BY EPOXY FLOORING  LT 1 PPB
		SAMPLE 2	61 PPM	
		SAMPLE 3	220 PPM	
		SAMPLE 4	330 PPM	
		SAMPLE 5	370 PPM	
		SAMPLE 6	1300 PPM	
		SAMPLE 7	400 PPM	
		SAMPLE 8	240 PPM	
		RAILROAD TRACKS	63 PPM	
		PIT TUNNEL WATER	90 PPM 190 PPM	

KEY: N/S - Not Sampled. Italics - Data obtained by PRP * - Area may not be covered by HDPE seal.
All data for "before remediation" obtained by PRP. LT - Less Than All data is for PCBs unless otherwise noted; most common isomer at this site was Aroclor 1260 though some 1248, 1242, and 1254 were detected.

WAGNER ELECTRIC COMPARISON OF CONTAMINATION BEFORE & AFTER REMEDIATION

DATE: April 19, 1988

PAGE 2 OF 4

AREA	BUILDING NUMBER	SECTION NUMBER	CONCENTRATION BEFORE REMEDIATION	CONCENTRATION AFTER REMEDIATION
2	9A	CORE 1 Upper Lower	12,660 PPM 290 PPM	N/S - AREA SEALED BY EPOXY FLOORING
		CORE 2 Upper Lower	20 ppm 32 ppm	
		SCRAPE	240,000 PPM	
3	8, 1st FLOOR	SOUTH 1/3 CENTER 1/3 NORTH 1/3	16 PPM 7.9 PPM 3.8 PPM	N/S - AREA BELOW SITE ACTION LEVEL ORIGINALLY AGREED TO IN CONSENT ORDER
	8, 2nd FLOOR	SOUTH 1/3 CENTER 1/3 NORTH 1/3	6.2 PPM 7 PPM 8.2 PPM	
	8, 3rd FLOOR	SOUTH 1/3 CENTER 1/3 NORTH 1/3	4.1 PPM 6.4 PPM 4.5 PPM	
	8, 4th FLOOR	SOUTH 1/3 CENTER 1/3 NORTH 1/3	20 PPM 8.2 PPM LT 20 PPM	
4*	17	VAT 1	cyanide 42.3 PPM arsenic 17.9 PPM barium 192 PPM cadmium 72.5 PPM chromium 21,580 PPM lead 531 PPM selenium LT 0.2 PPM silver 1.77 PPM mercury 1.6 PPM copper -	280 PPM 19 PPM 300 PPM 39 PPM 17,000 PPM 280 PPM - - 2.25 PPM 1300 PPM
	17A	VAT 2	cyanide 65.6 PPM arsenic 25.5 PPM barium 300 PPM cadmium 25.9 PPM chromium 1040 PPM lead 584 PPM selenium LT 0.2 PPM silver 1.37 PPM mercury 2 PPM copper -	350 PPM 14 PPM 220 PPM 40 PPM 2100 PPM 610 PPM - - 0.224 PPM 1700 PPM
5	5	1st FLOOR 2nd FLOOR	56 PPM 75 PPM	6.2 ug 4.25 ug 4.5 ug 3.13 ug
	15, 1st FLOOR	SAMPLE 1 SAMPLE 2 SAMPLE 3	24/42(D) PPM 36/43(D) PPM 30 PPM	2.0 ug 4.75 ug 3.6 ug 4.25 ug 4.1 ug 4.2 ug
	15, 2nd FLOOR	SAMPLE 1 SAMPLE 2	29 PPM 52 PPM	2.1 ug 2.6 ug 2.2 ug

KEY: N/S - Not Sampled. Italics - Data obtained by PRP ug = ug per 100 square centimeters unless otherwise noted. All data for "before remediation" obtained by PRP. LT - Less Than (D) - duplicate sample data All data is for PCBs unless otherwise specified; most common isomer at this site was Aroclor 1260, though some 1248, 1242, and 1254 were also detected. * - Refer to TES data assessment dated Feb. 24, 1988

WAGNER ELECTRIC COMPARISON OF CONTAMINATION BEFORE & AFTER REMEDIATION

DATE: April 19, 1988

PAGE 3 OF 4

AREA	BUILDING NUMBER	SECTION NUMBER	CONCENTRATION BEFORE REMEDIATION	CONCENTRATION AFTER REMEDIATION
5	15, 3rd FLOOR	SAMPLE 1	19 PPM	1 ug
	18, 1st FLOOR	ROOM 1	LT 20 PPM	Invalid
		ROOM 2	LT 20 PPM	Invalid
		ROOM 2 PIT	LT 20 PPM	Invalid
		ROOM 4	LT 20 PPM	2.5 ug
		ROOM 5	15 PPM	30 ug
	18, 2nd FLOOR	SAMPLE 1	73 PPM	3 ug
	25, 1st FLOOR	SAMPLE 1	21 PPM	11.7 ug 15.7 ug
		SAMPLE 2	53-270 PPM	100 ug 275 ug
		SAMPLE 3	31 PPM	8.2 ug ND
6	25, 2nd FLOOR	SAMPLE 1	37 PPM	2.5 ug
	25, 3rd FLOOR	SAMPLE 1	5.5 PPM	N/S - SECTION WAS BELOW THE SITE ACTION LEVEL AGREED TO IN THE CONSENT ORDER ↓ 940/1600 PPM 560/660 PPM Invalid/9 ppm 9.8/8 PPM N/S ↓ 6.6 PPM
		SAMPLE 2	11 PPM	
	STREAM BED	SAMPLE 1	2.1 PPM	
		SAMPLE 2	1.4 PPM	
		SAMPLE 3	1.2 PPM	
		SAMPLE 4	17 PPM	
		SAMPLE 5	0.68 PPM	
		SAMPLE 6	LT 0.2 PPM	
	RIVER BANK	SAMPLE 1*	20/94 (D) PPM	
		SAMPLE 2*	92/290 (D) PPM	
		SAMPLE 3*	162/59 (D) PPM	
		SAMPLE 4*	2400/1000 (D) PPM	
		SAMPLE 5*	302/170 (D) PPM	
		SAMPLE 6*	Invalid	
		SAMPLE 7*	11 PPM	
		SAMPLE 8*	8 PPM	
8	Area APE & APW divided into North and South sections for confirmatory samples	AREA A-1	6.0 PPM	N/S - AREA WAS BELOW THE SITE ACTION LEVEL AGREED TO IN CONSENT ORDER 9.8/3.2 ug 7/1 ug 8.0/4.6 ug 8.4/0.7 ug
		AREA A-2	6.3 PPM	
		AREA A-3	13 PPM	
		AREA A-4	7.5 PPM	
		AREA APS	5.2 PPM	
		AREA APN	7.2 PPM	
		AREA APE	37/30 (D) PPM	
		AREA APW	140 PPM	
9	23		83 PPM	14.5 ug N/S
	16	SAMPLE 1	110 PPM	- 9.9 ug
		SAMPLE 2	13 PPM	0.12 ug 10 ug
		SAMPLE 3	52 PPM	0.17 ug 2.9 ug
10	35, "Low Bay"	SAMPLE 1	180 PPM	N/S - AREA SEALED WITH EPOXY FLOORING 438 ug 575 ug 35 ug N/S
	35, "High Bay" (Sealed "Hot Spot")	SAMPLE 2	230 PPM	
		SAMPLE 3	52 PPM	
		SAMPLE 1	340 PPM	
		SAMPLE 2	58 PPM	
	35	OUTSIDE	2 PPM	N/S

KEY: N/S - Not Sampled. Italics - Data obtained by PRP ug = ug per 100 square centimeters unless otherwise noted. All data for "before remediation" obtained by PRP. LT - Less Than (D) - duplicate sample data All data is for PCBs unless otherwise specified; most common isomer at this site was Aroclor 1260, though some 1248, 1242, and 1254 were also detected. ND - non-detect * - Locations before and after not exactly determined. Data in "after" column reflects EPA data before and after remediation from same location.

WAGNER ELECTRIC COMPARISON OF CONTAMINATION BEFORE & AFTER REMEDIATION

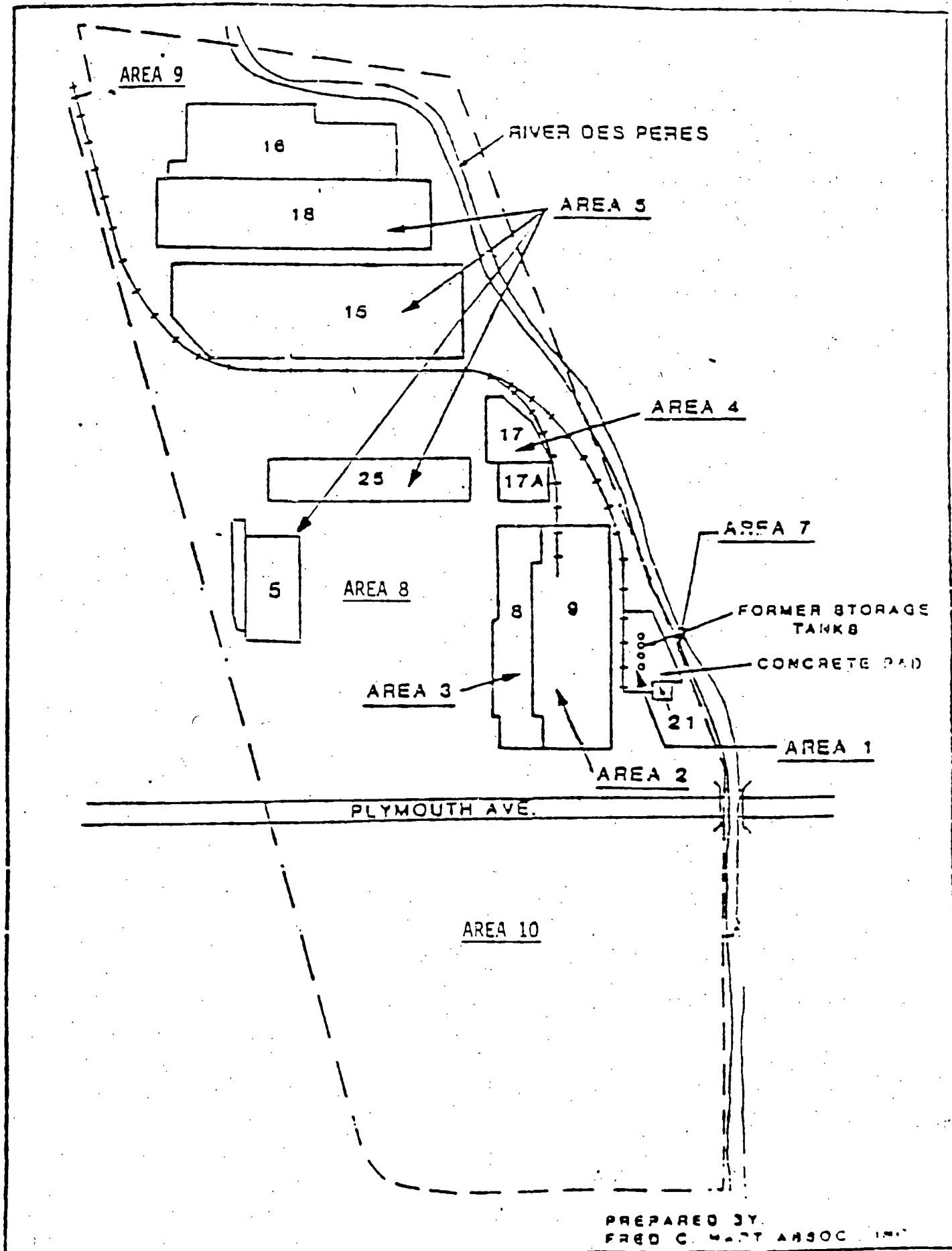
DATE: April 19, 1988

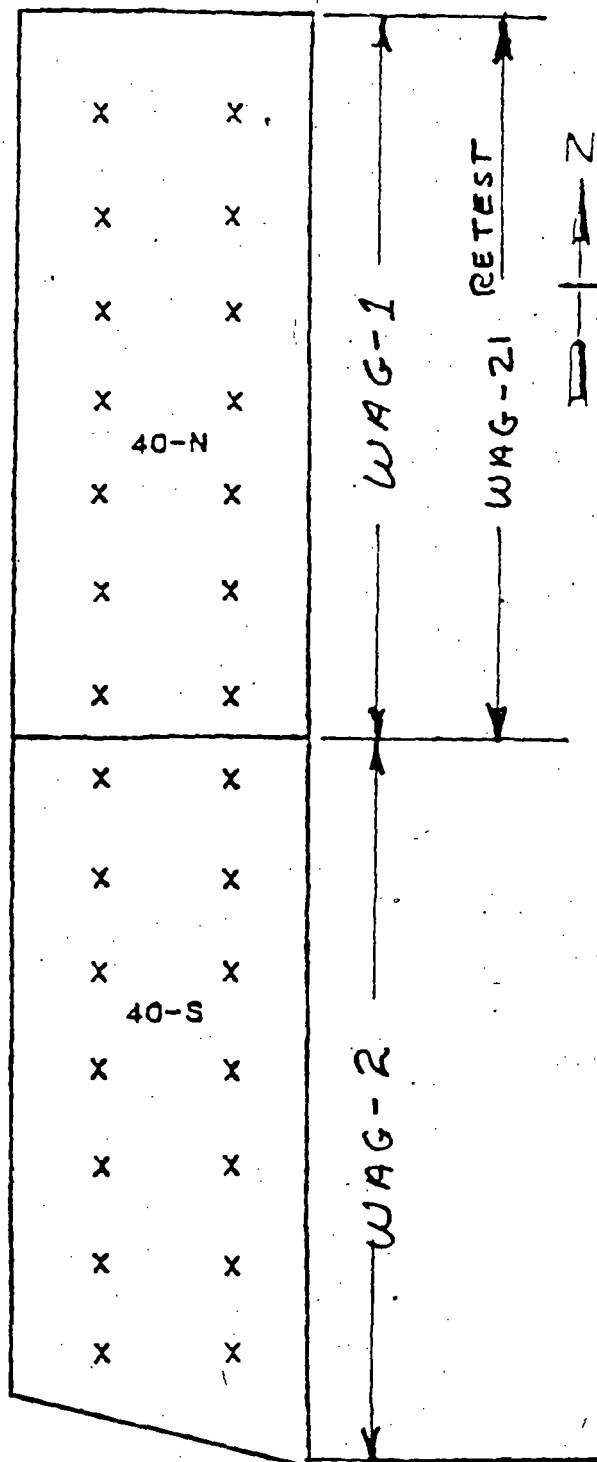
PAGE 4 OF 4

AREA	BUILDING NUMBER	SECTION NUMBER	CONCENTRATION BEFORE REMEDIATION	CONCENTRATION AFTER REMEDIATION
10	40	NORTH SECT. SOUTH SECT. OUTSIDE	79 PPM 42 PPM 8 PPM	3.7 ug 3.1 ug N/S - AREA BELOW THE SITE ACTION LEVEL AGREED TO IN CONSENT ORDER
	36		19 PPM	
	37		12 PPM	
	39		17 PPM	

KEY: N/S - Not Sampled. Italics - Data obtained by PRP ug = ug per 100 square centimeters unless otherwise noted. All data for "before remediation" obtained by PRP. LT - Less Than (D) - duplicate sample data
All data is for PCBs unless otherwise specified; most common isomer at this site was Aroclor 1260, though some 1248, 1242, and 1254 were also detected. ND - non-detect

LOCATIONS OF AREAS OF CONCERN-WAGNER ELECTRICAL CO.





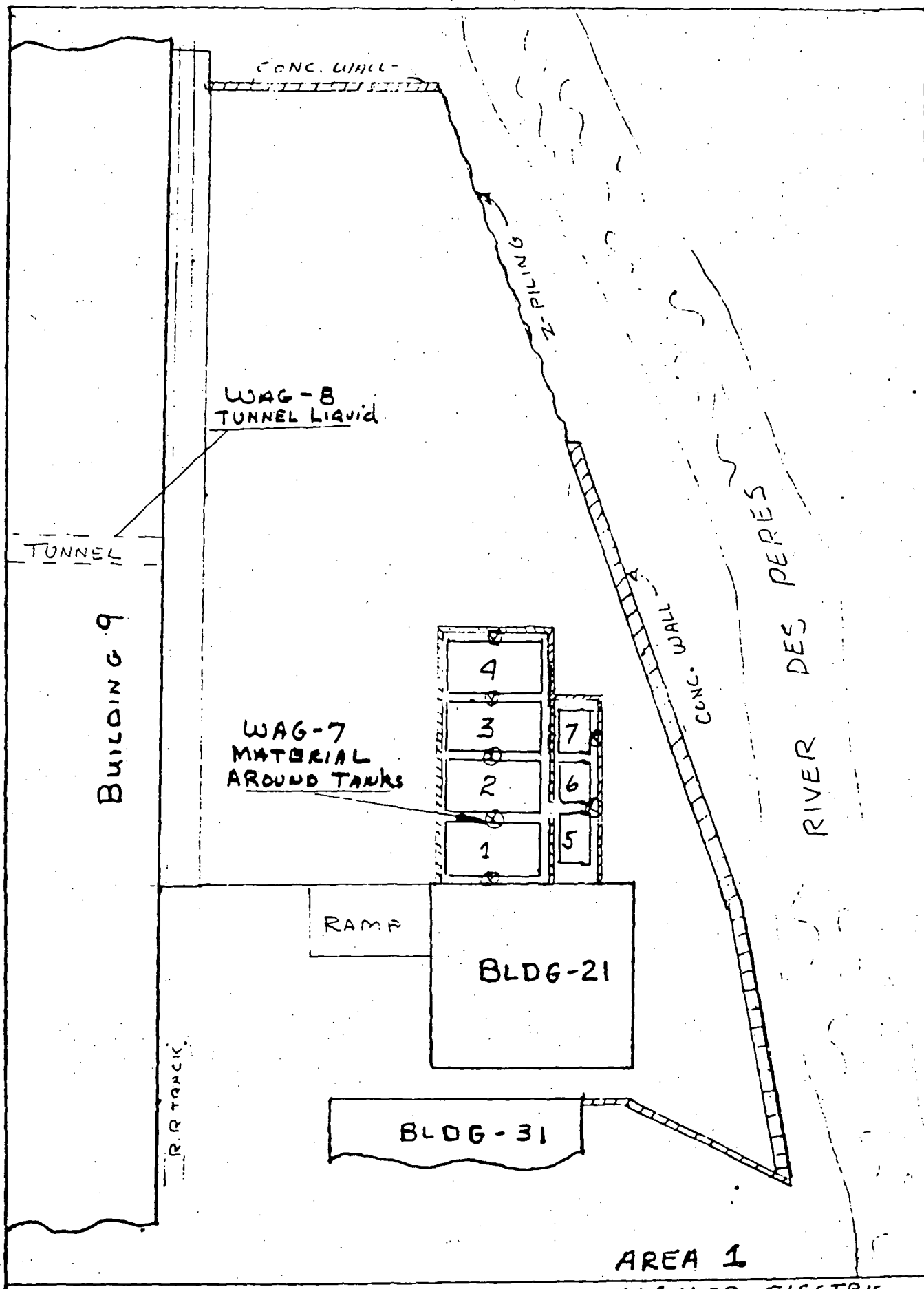
0 40
Scale (Ft.)

LEGEND

X SAMPLE LOCATIONS

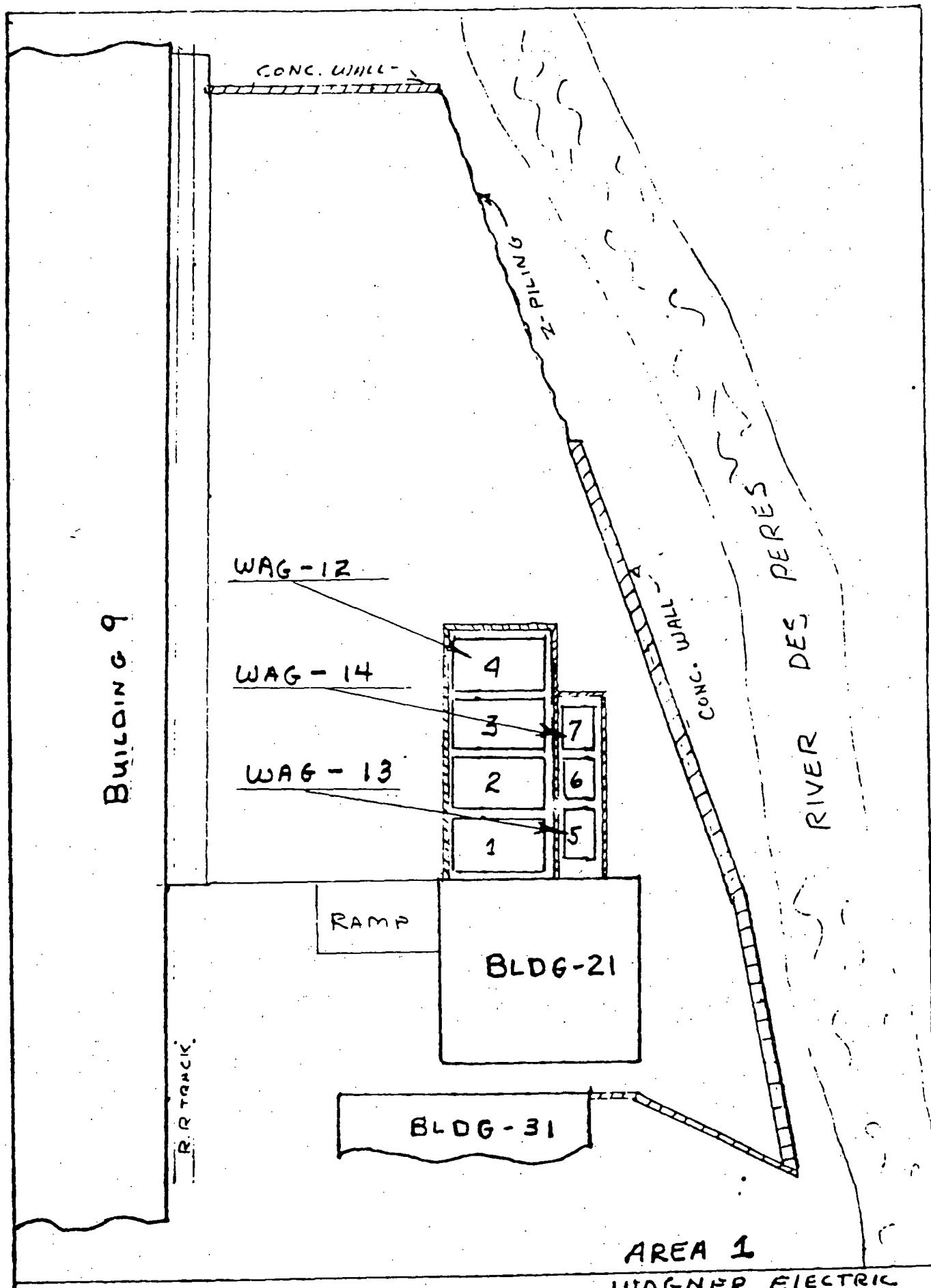
FIGURE 2-5
BUILDING #40
SAMPLING LOCATIONS
WAGNER ELECTRIC
WELLSTON, MISSOURI

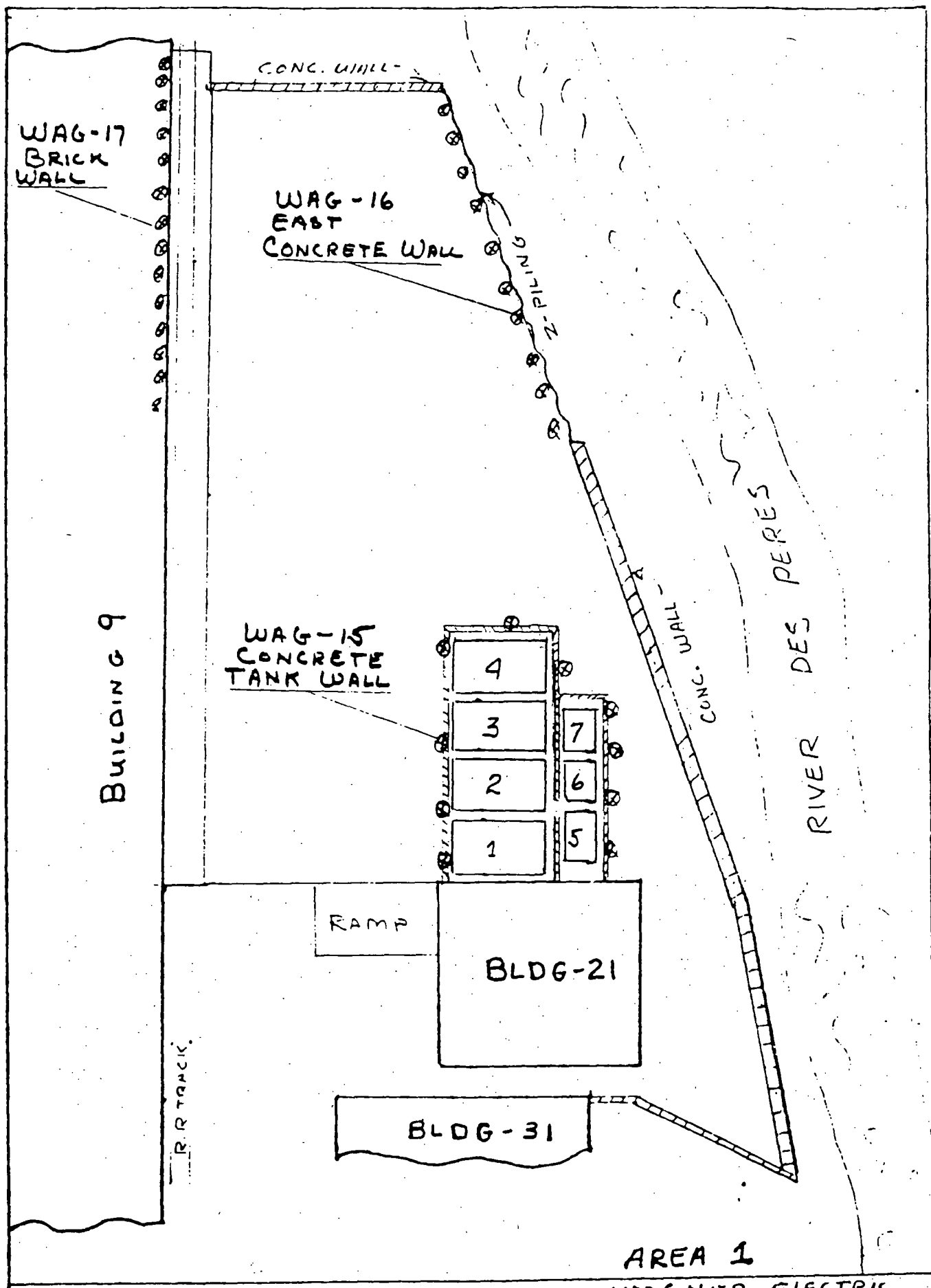
FRED C. HART ASSOCIATES, INC.



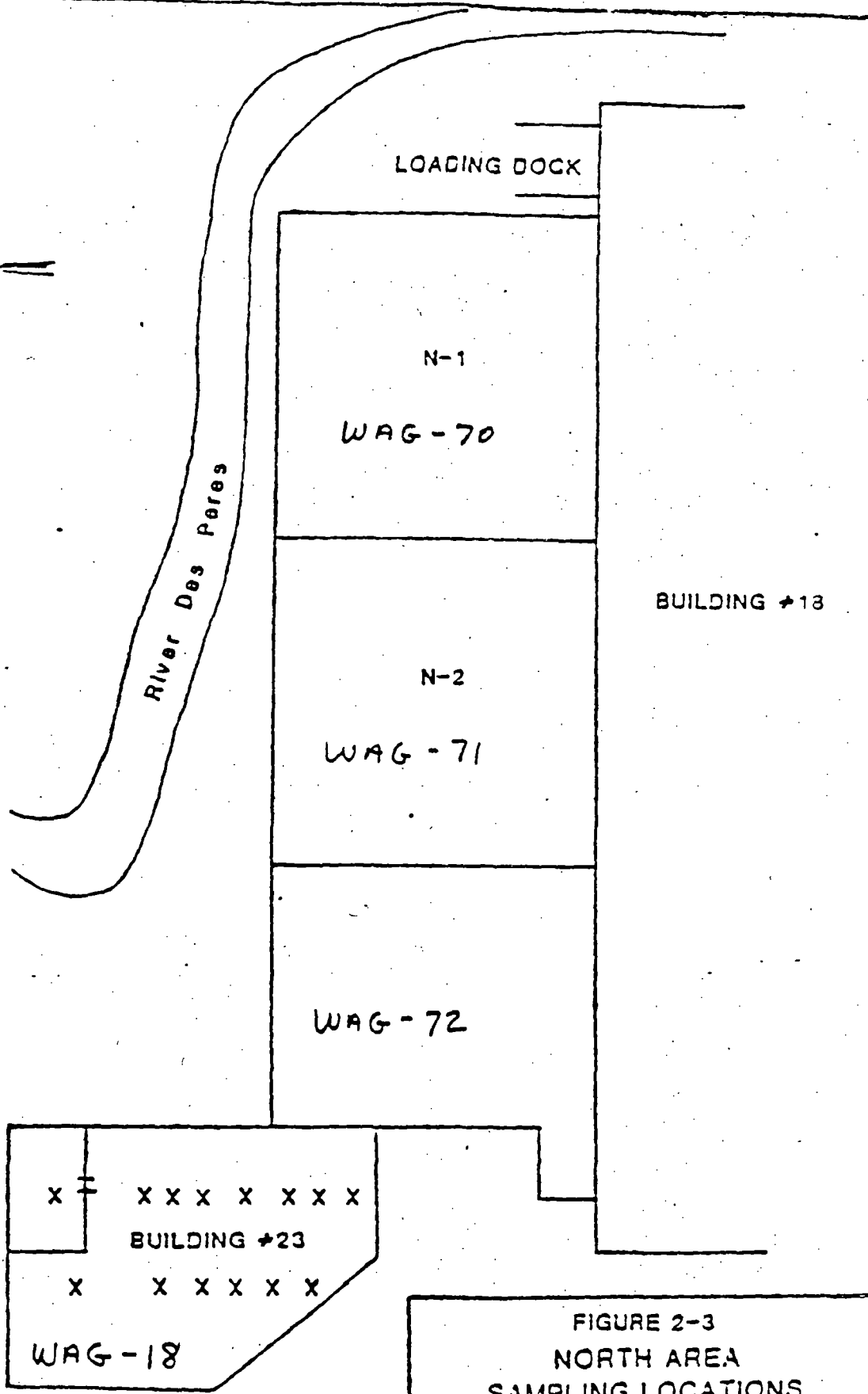
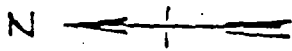
AREA 1

WAGNER ELECTRIC
Wellston, Mo.





WAGNER ELECTRIC
Wellston, Mo.



LOADING DOCK

N-1

WAG-70

N-2

WAG-71

WAG-72

BUILDING #18

X X X X X X X

BUILDING #23

X X X X X

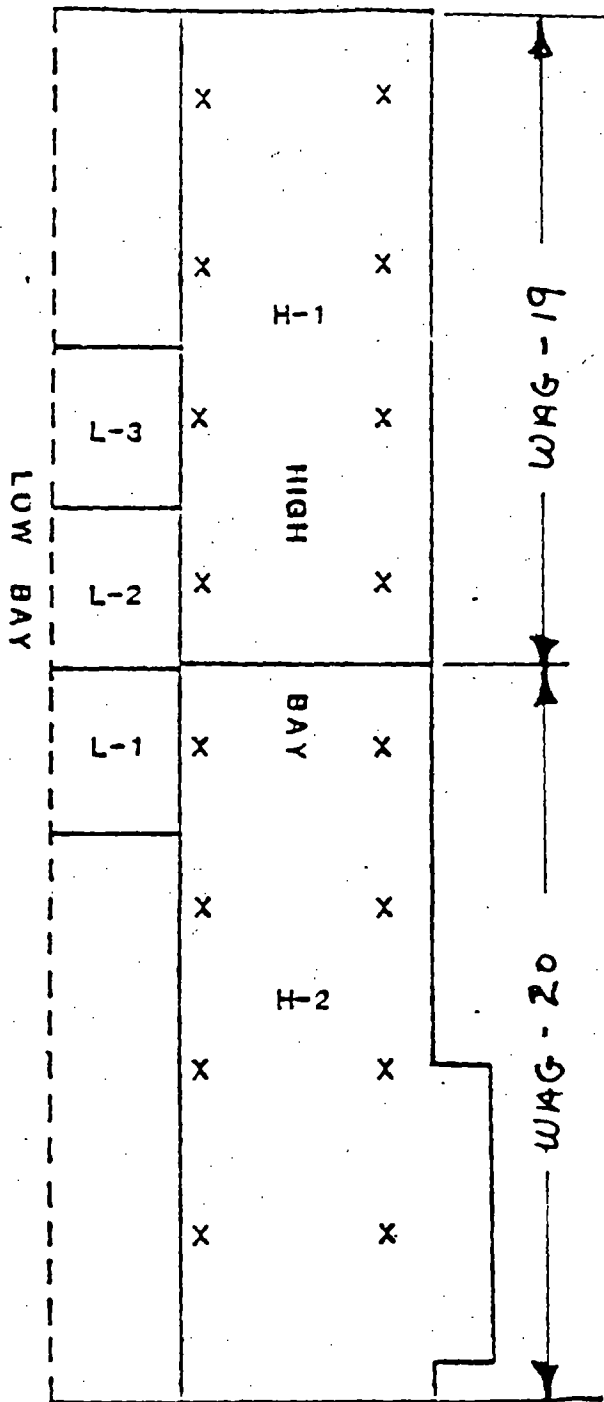
WAG-18

LEGEND

X SAMPLE LOCATIONS

FIGURE 2-3
NORTH AREA
SAMPLING LOCATIONS
WAGNER ELECTRIC
WELLSTON, MISSOURI

FRED C. HART ASSOCIATES, INC.



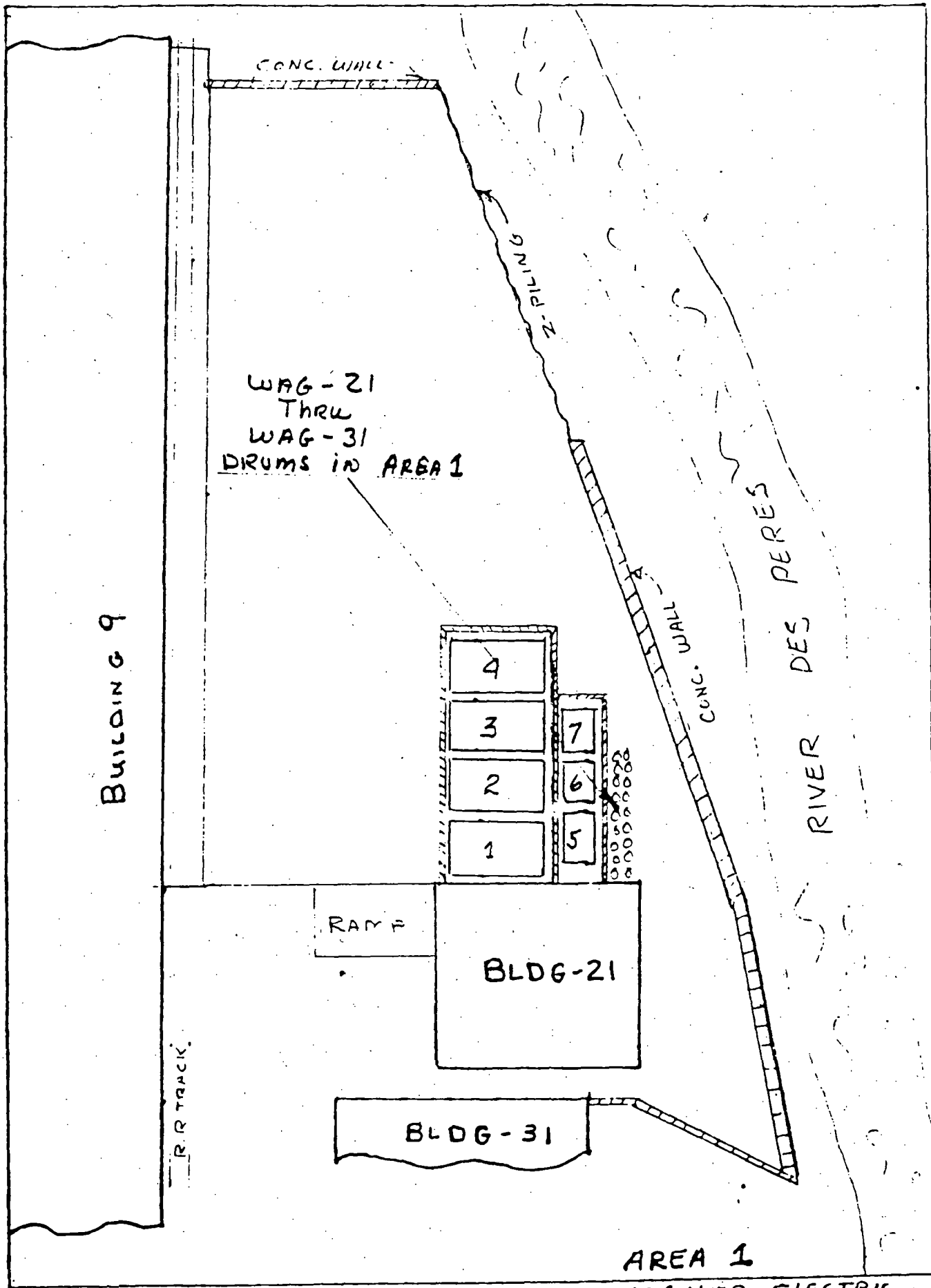
0 40
Scale (Ft.)

LEGEND

X SAMPLE LOCATIONS

FIGURE 2-4
BUILDING #35
SAMPLING LOCATIONS
WAGNER ELECTRIC
WELLSTON, MISSOURI

FRED C. HART ASSOCIATES, INC.



Building 9

CONC. WALL

2x4 PILING

WAG-21
Thru
WAG-31
DRUMS IN AREA 1

CONC. WALL

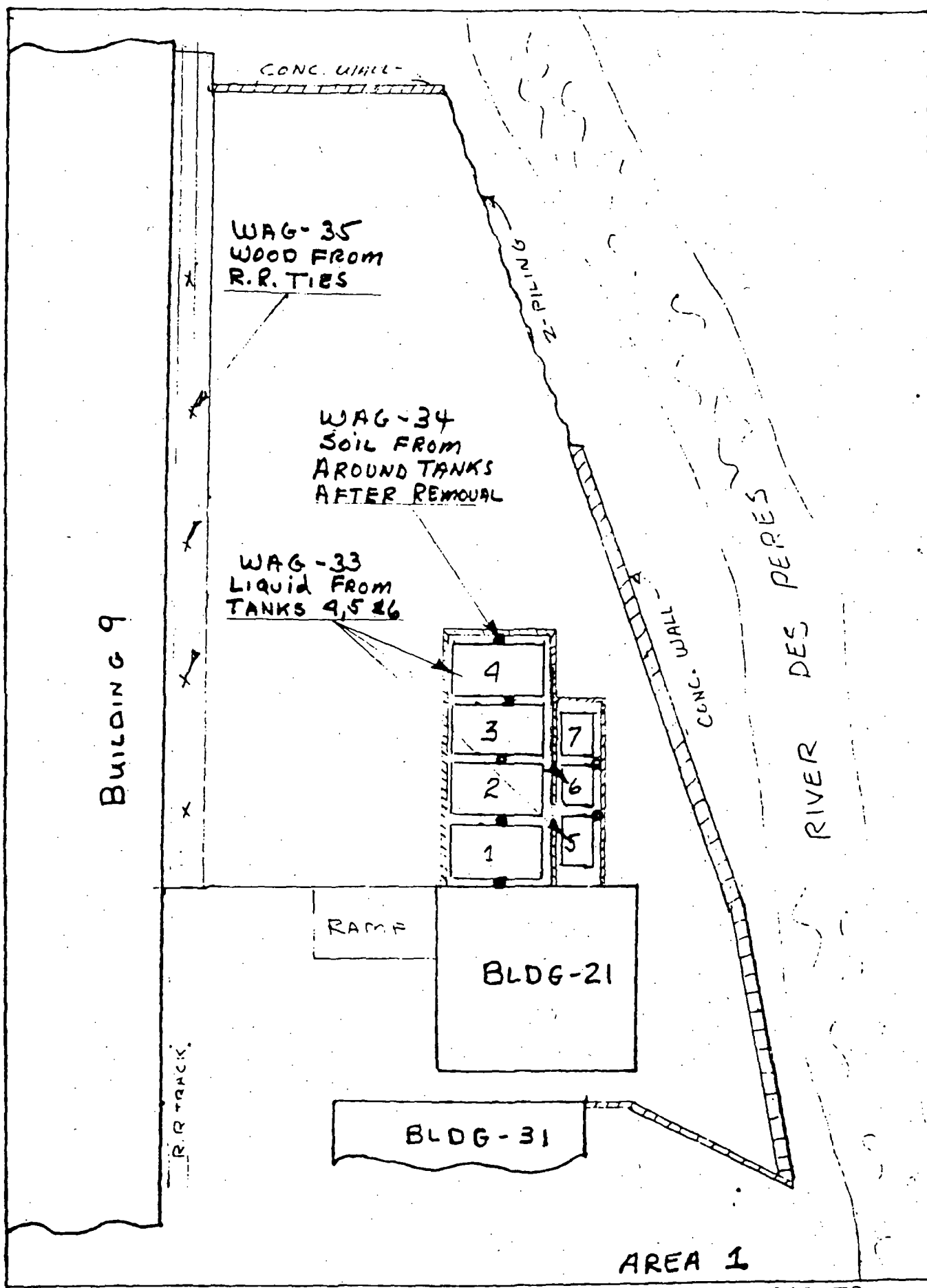
RIVER DES PERES

RAMP

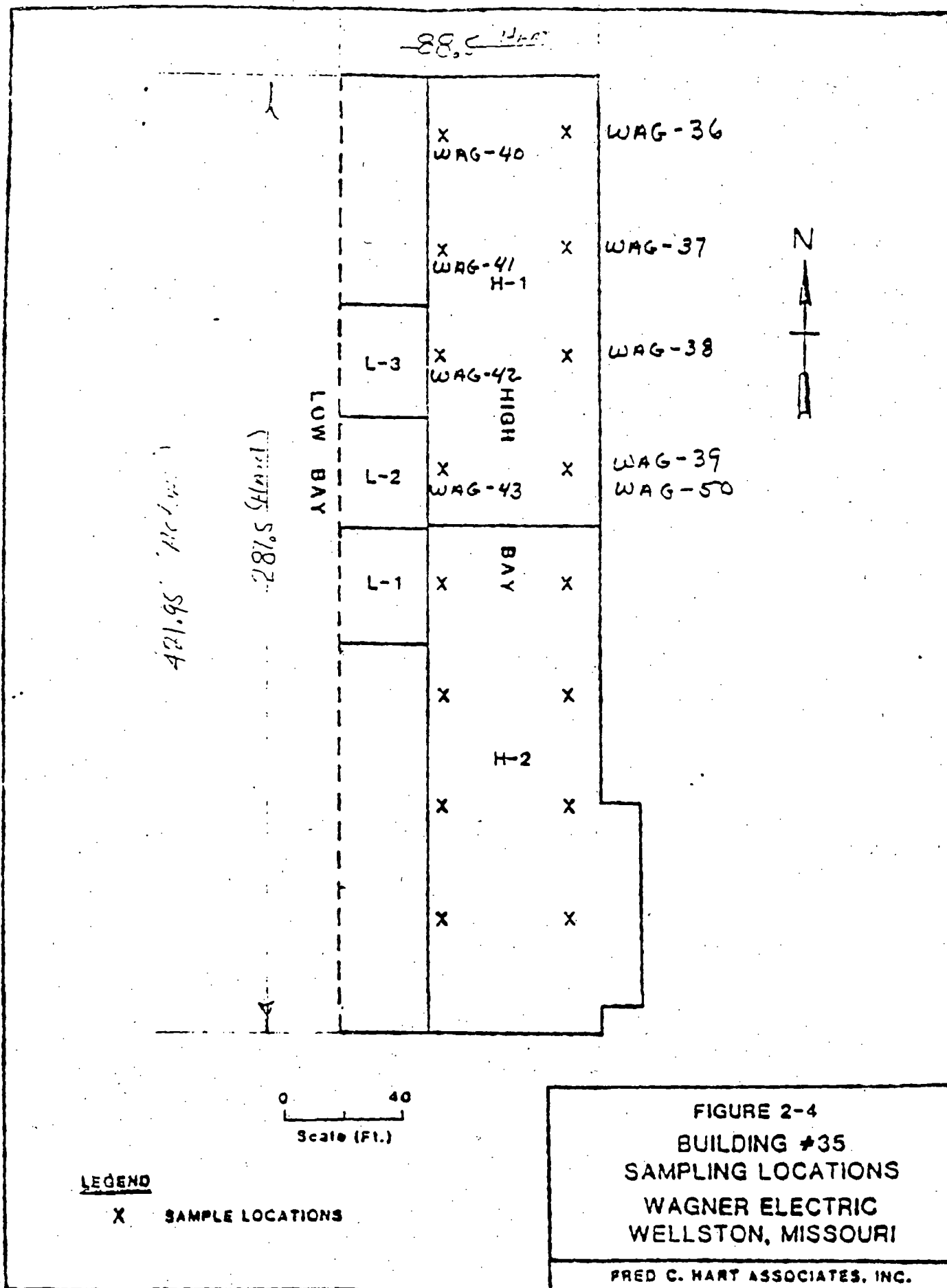
BLDG-21

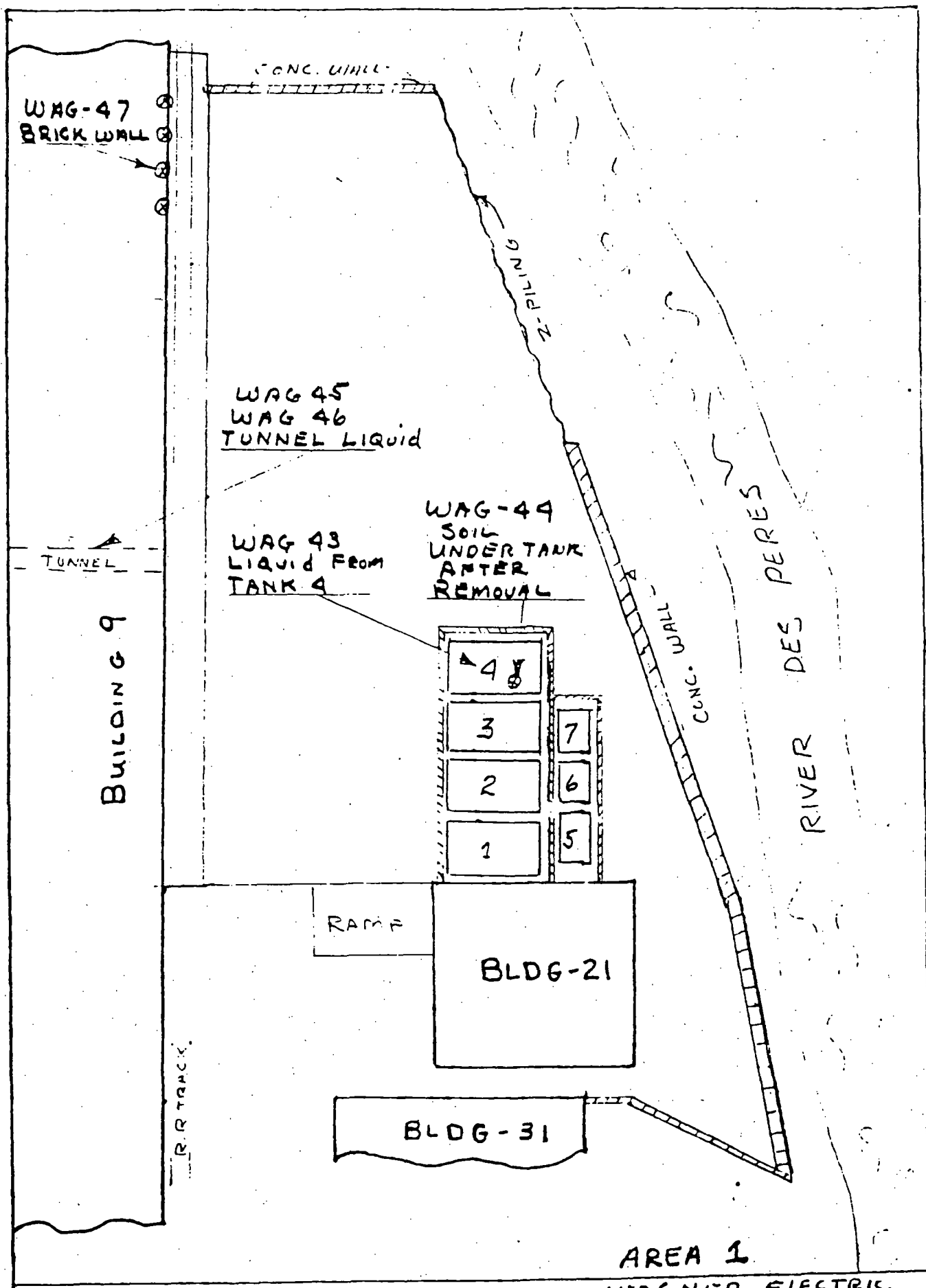
BLDG-31

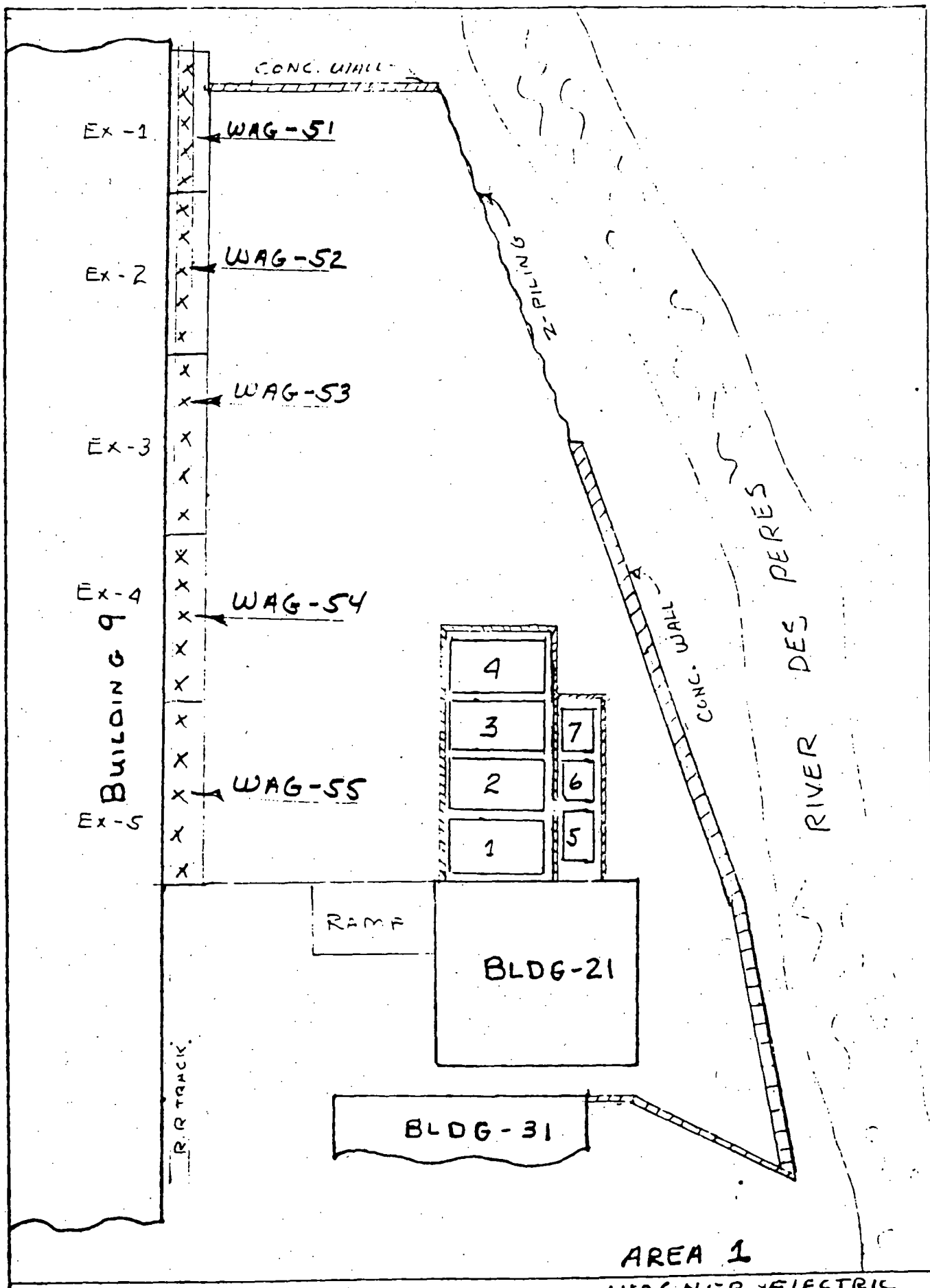
AREA 1
WAGNER ELECTRIC
Wellston, Mo.



WAGNER ELECTRIC
Wellston, Mo.

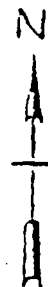
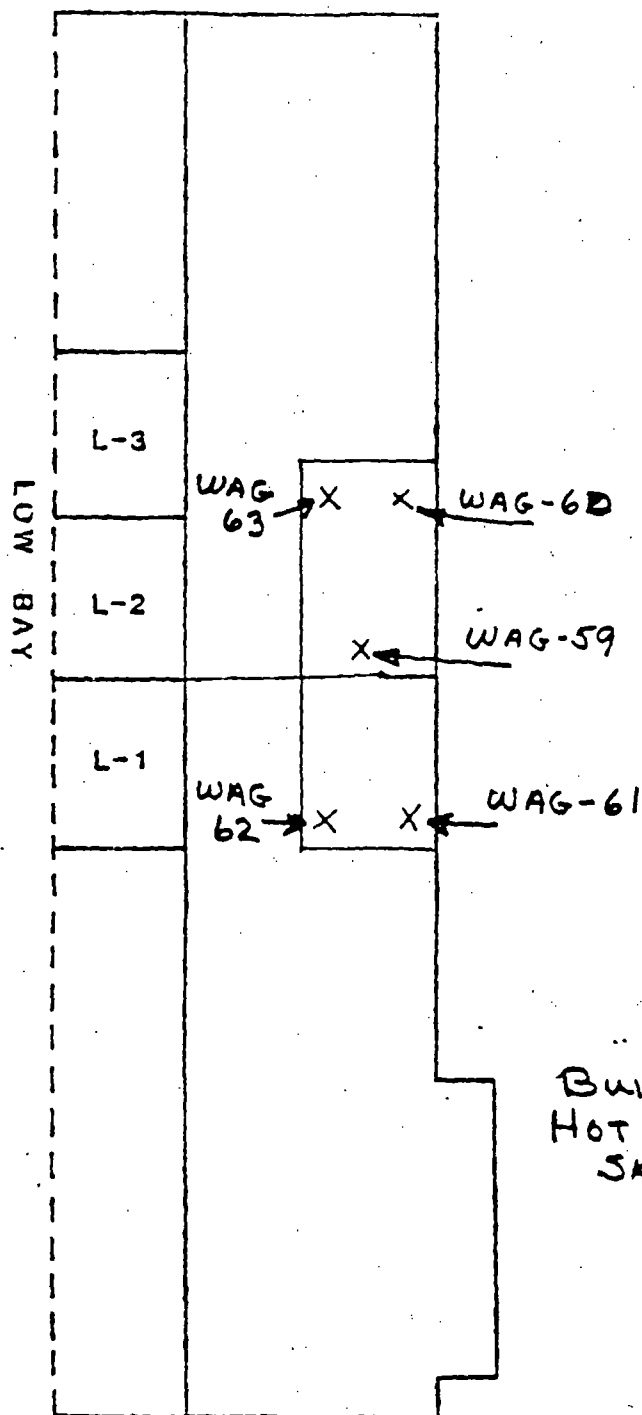






AREA 1

WAGNER ELECTRIC
Wellston, Mo.



BUILDING 35
HOT ZONE
SAMPLING

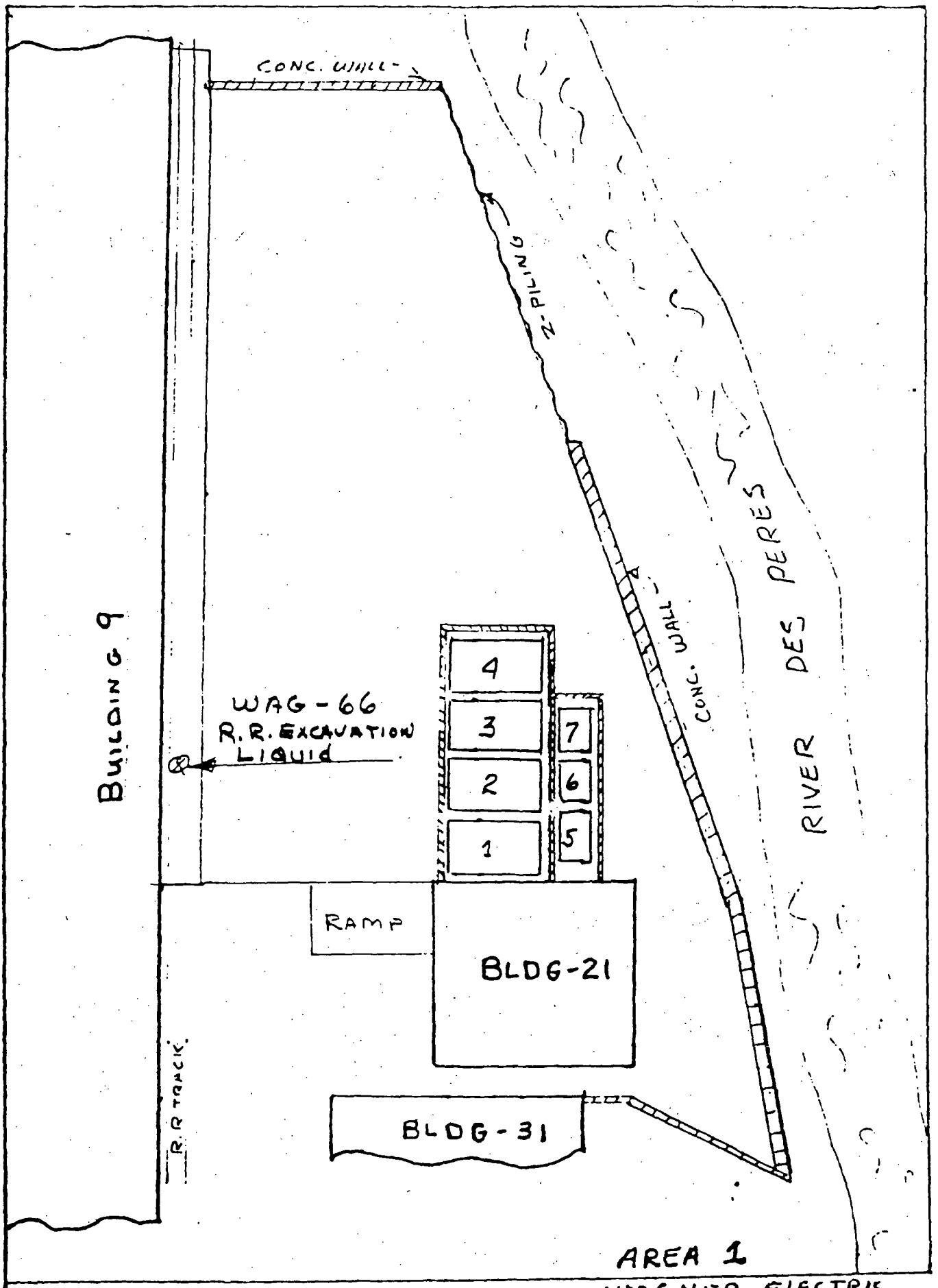
0 40
Scale (Ft.)

LEGEND

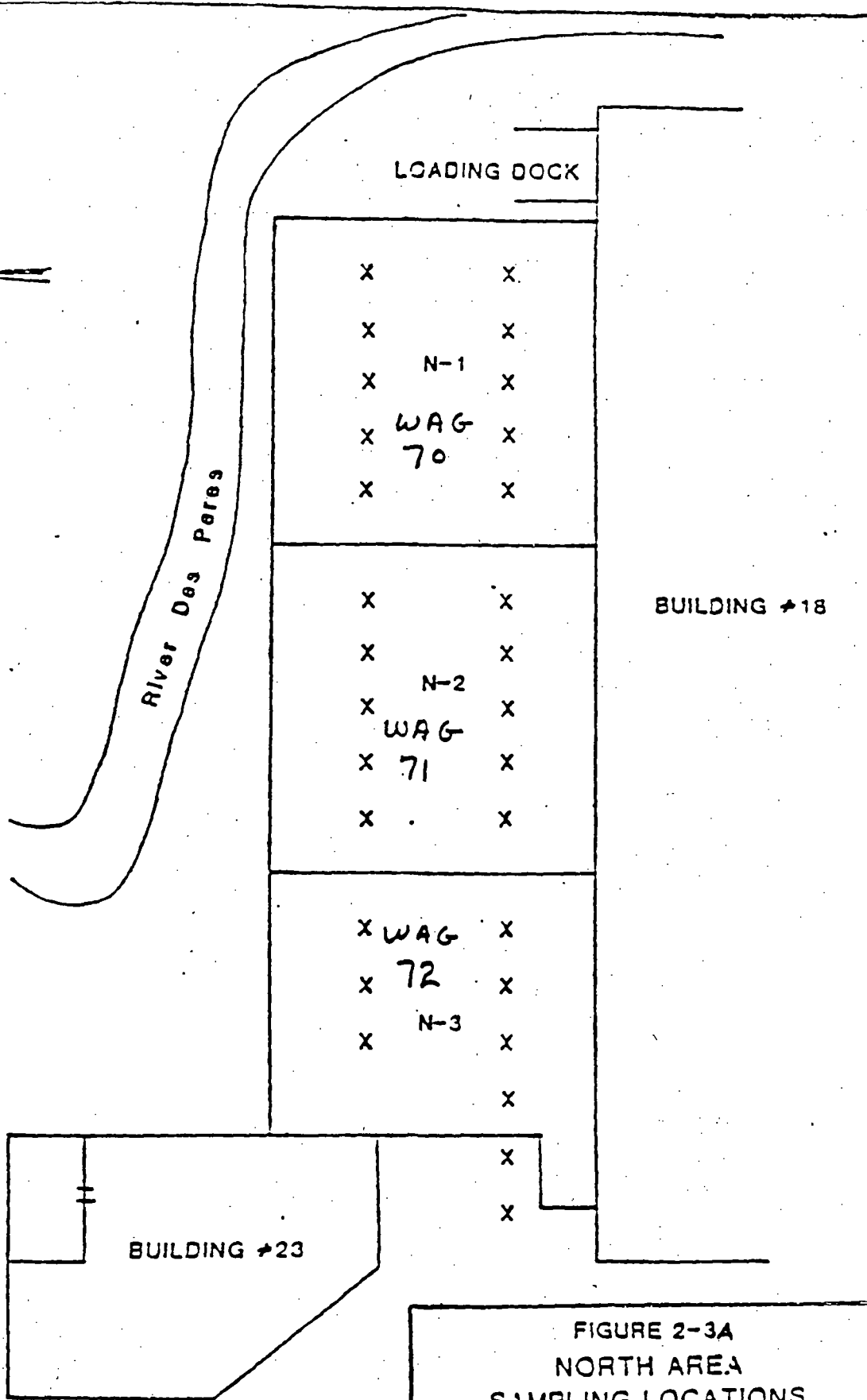
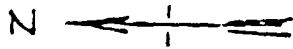
X SAMPLE LOCATIONS

FIGURE 2-4
BUILDING #35
SAMPLING LOCATIONS
WAGNER ELECTRIC
WELLSTON, MISSOURI

FRED C. HART ASSOCIATES, INC.



WAGNER ELECTRIC
Wellston, Mo.

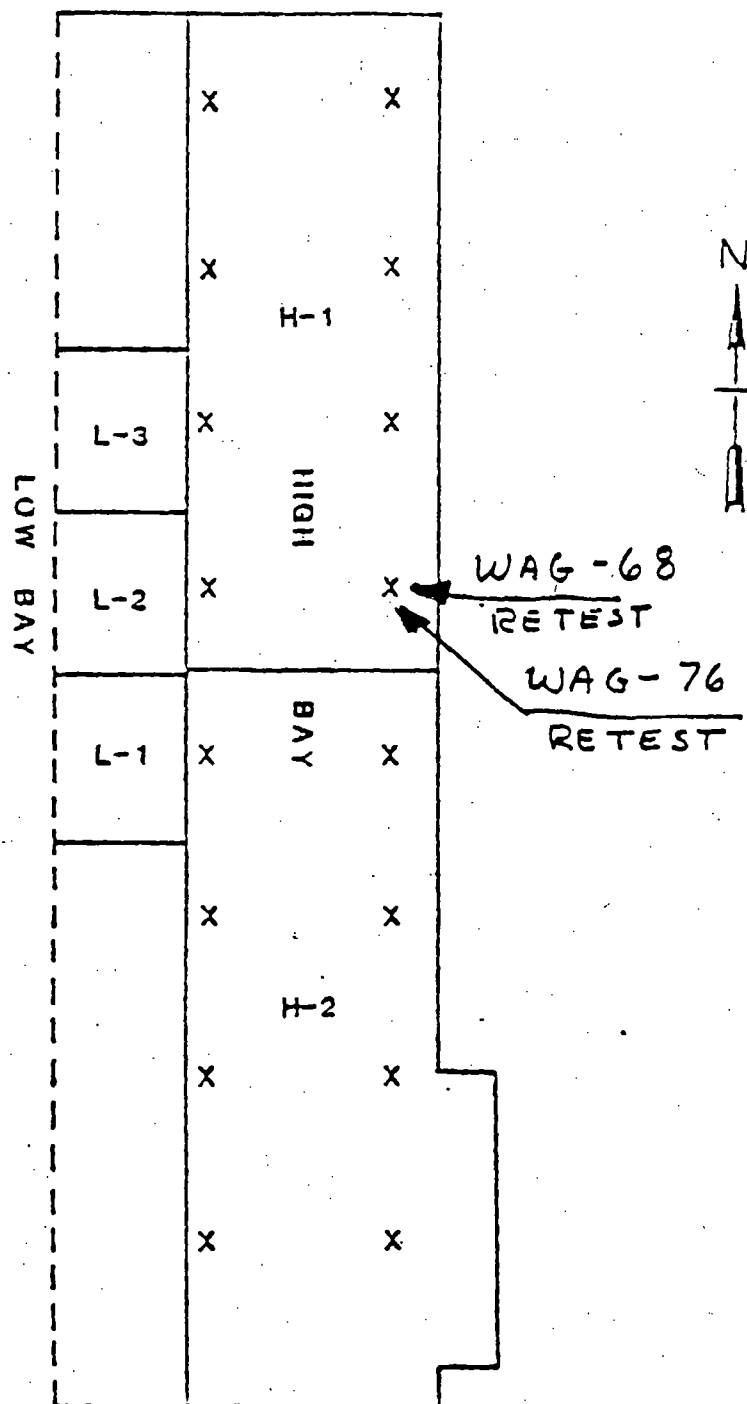


LEGEND

X SAMPLE LOCATIONS

FIGURE 2-3A
NORTH AREA
SAMPLING LOCATIONS
WAGNER ELECTRIC
WELLSTON, MISSOURI

FRED C. HART ASSOCIATES, INC.

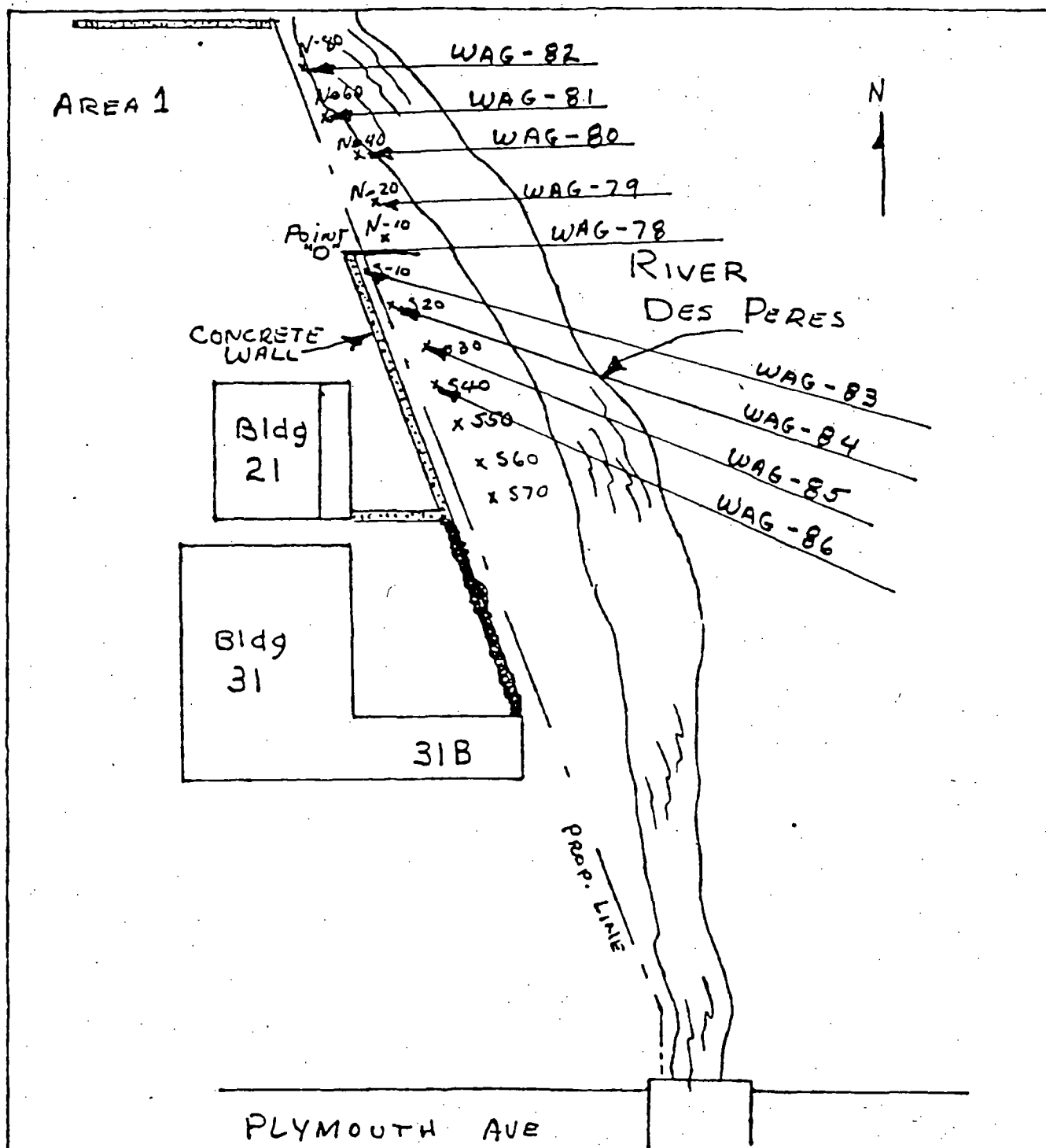


LEGEND

X SAMPLE LOCATIONS

FIGURE 2-4
BUILDING #35
SAMPLING LOCATIONS
WAGNER ELECTRIC
WELLSTON, MISSOURI

FRED C. HART ASSOCIATES, INC.



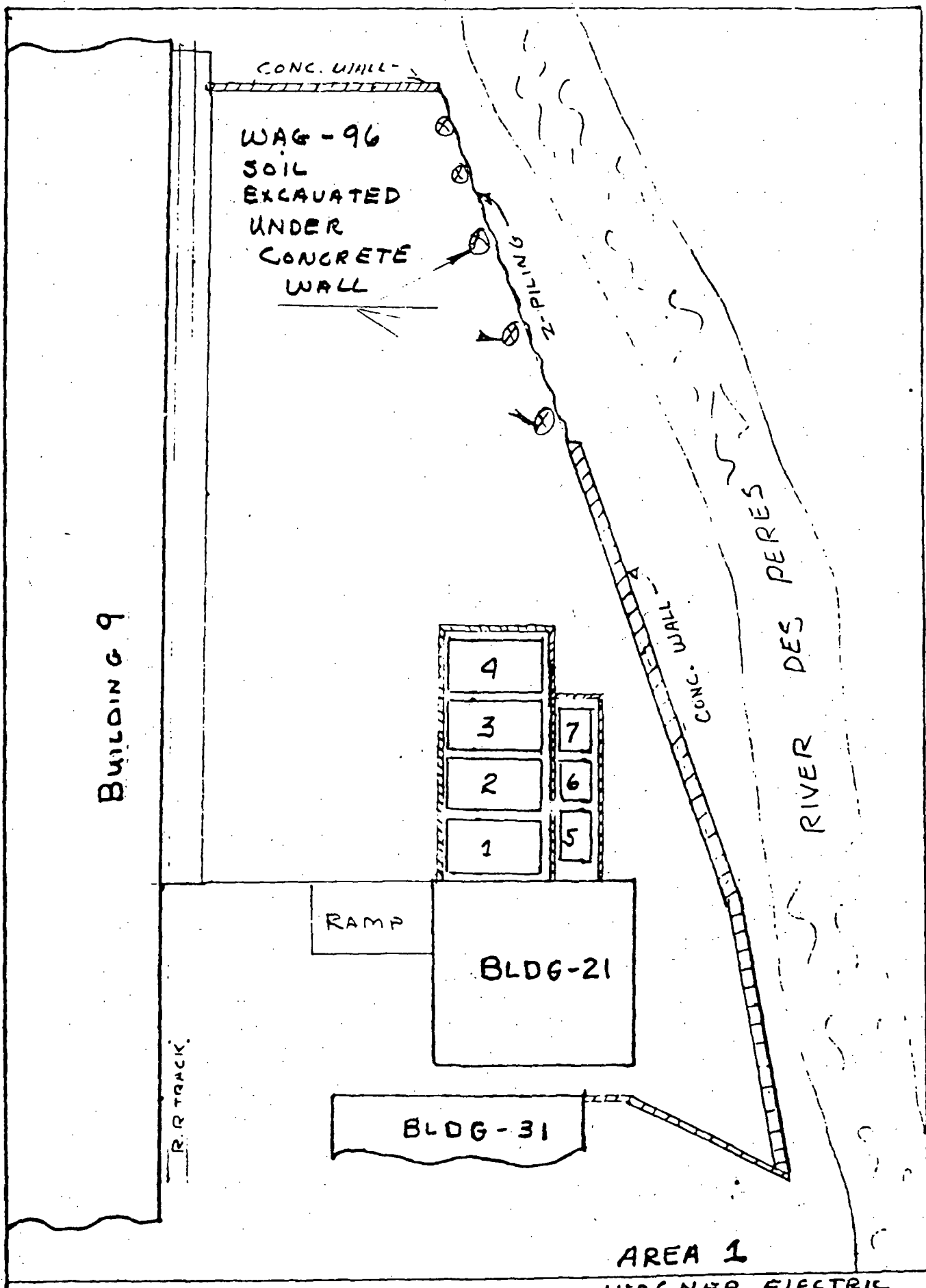
NOTE:

SAMPLES TAKEN AT 10 FOOT & 20 FOOT
SPACING BOTH NORTH AND
SOUTH OF POINT "O"

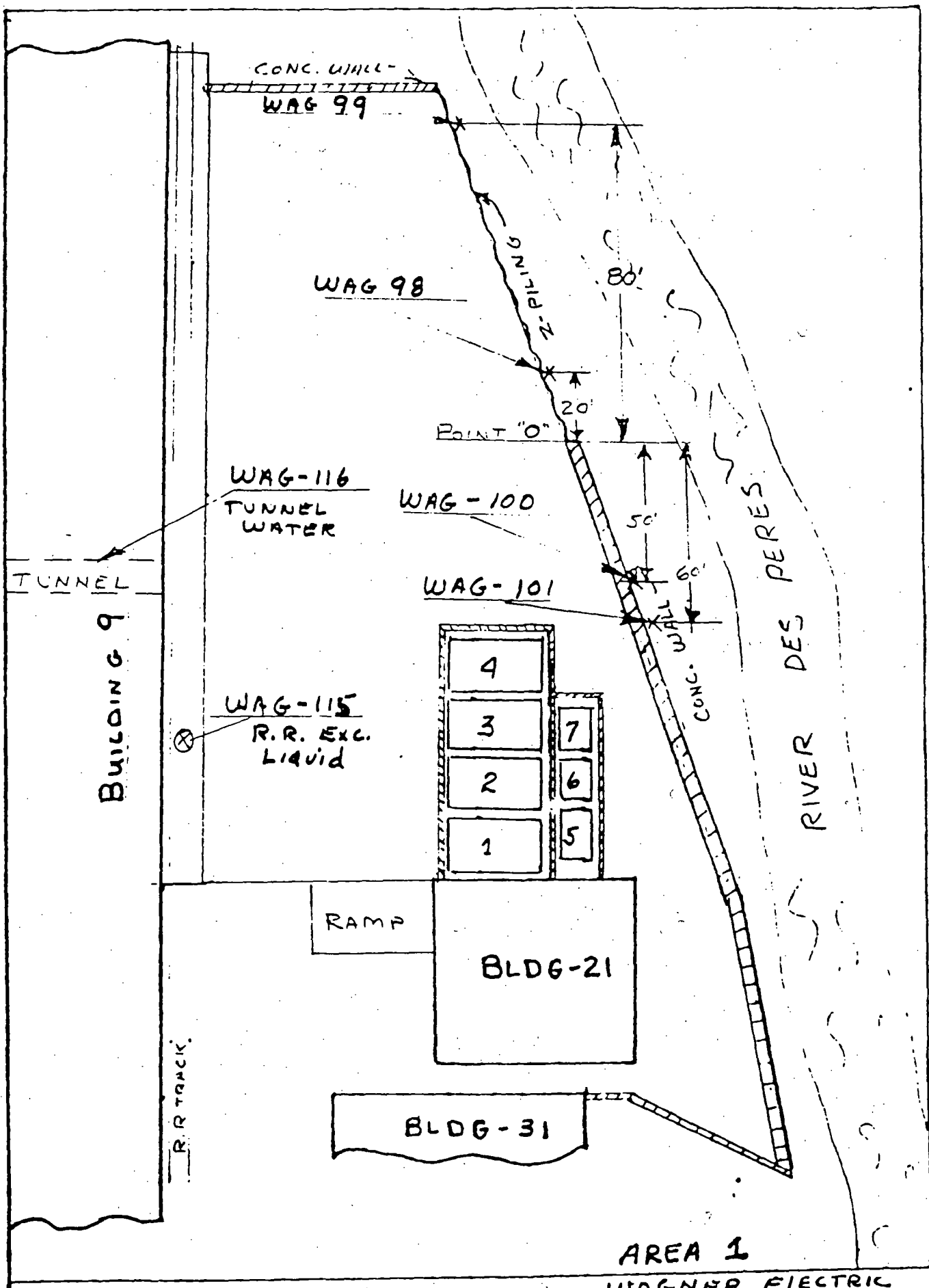
NOT TO SCALE

WAGNER Elect
Wellston, Mo.

SAMPLING POINTS
ALONG RIVER SHORE
by JS 11/2/87



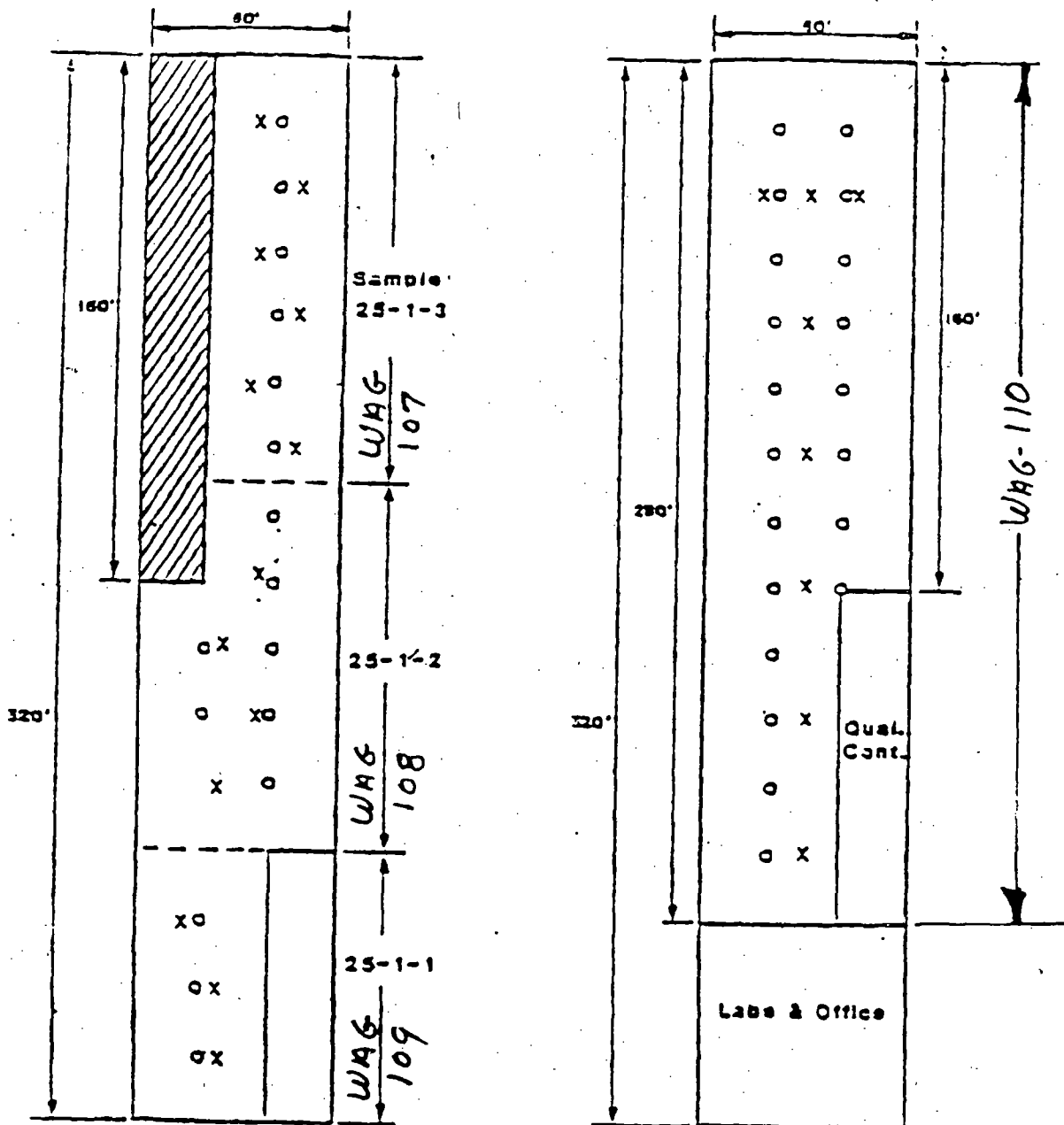
WAGNER ELECTRIC
Wellston, Mo.



1ST FLOOR

2ND FLOOR

20 FT. COLUMN SPACING



LEGEND

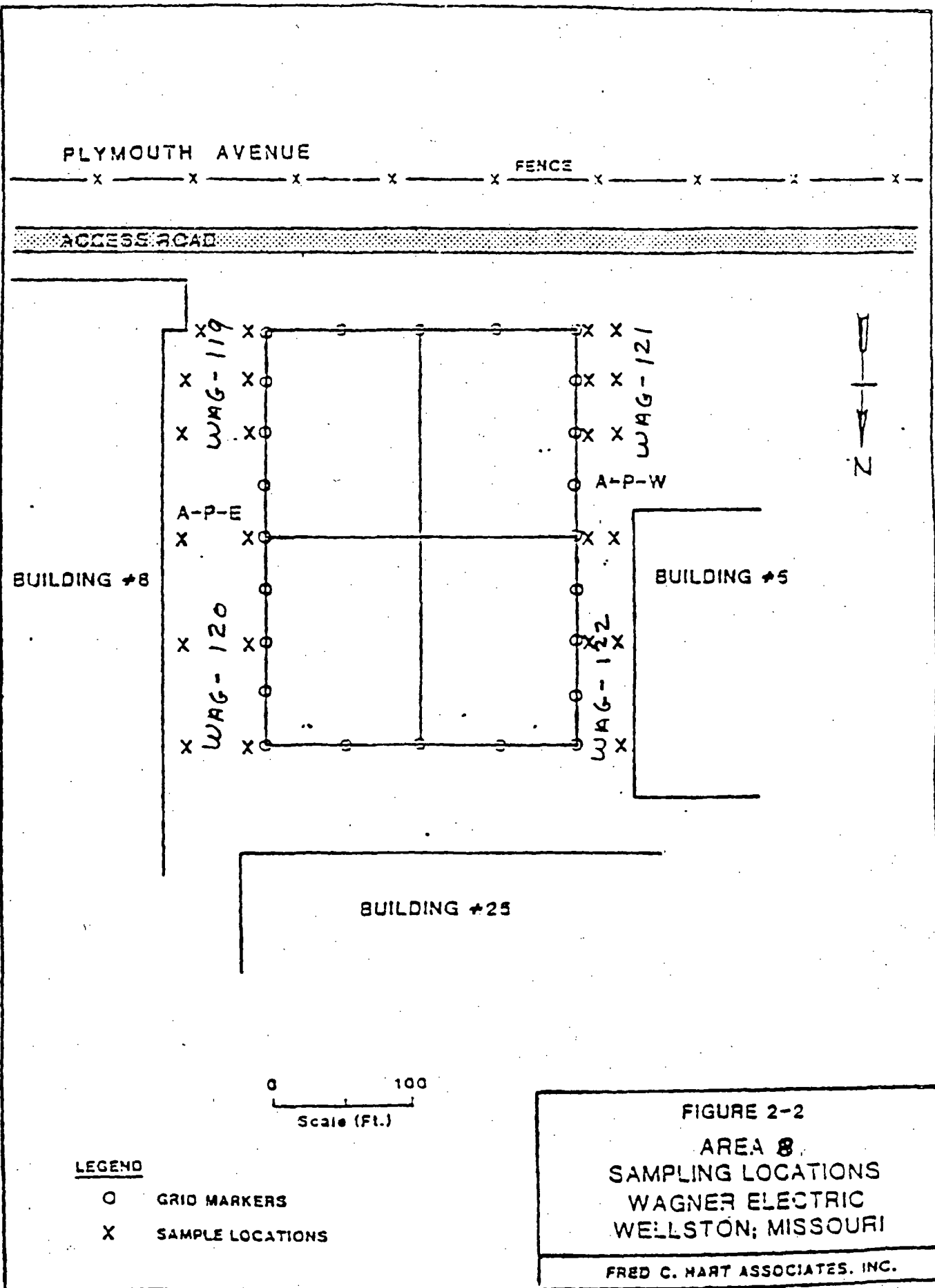
- X SAMPLING POINT
- O COLUMN LOCATION

FIGURE 3-14

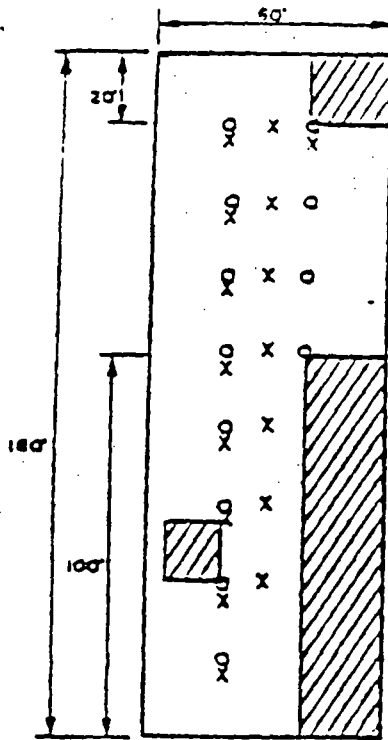
BUILDING 25

WAGNER ELECTRIC
WELLSTON, MISSOURI

FRED C. HART ASSOCIATES, INC.

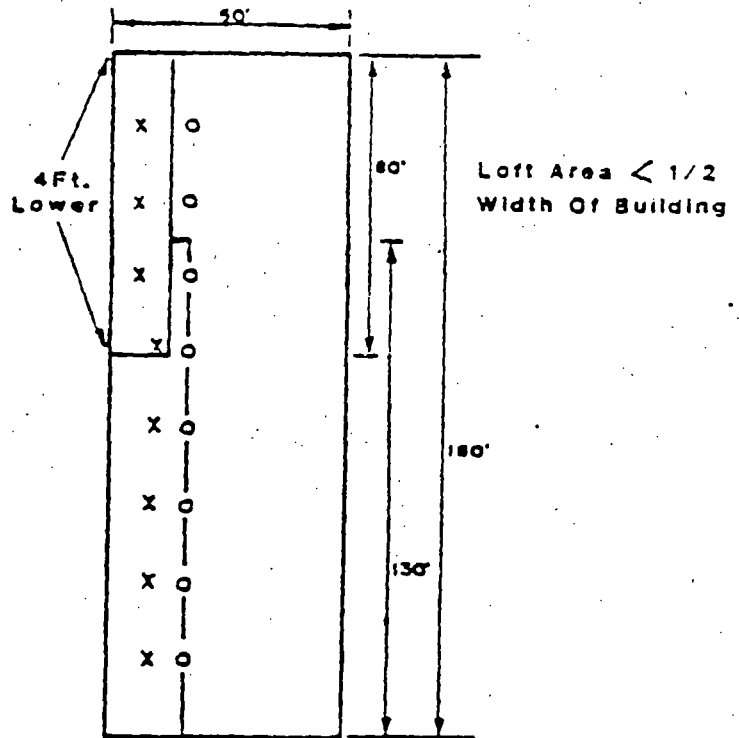


1ST FLOOR



WAG-127

2ND FLOOR



WAG-128

LEGEND

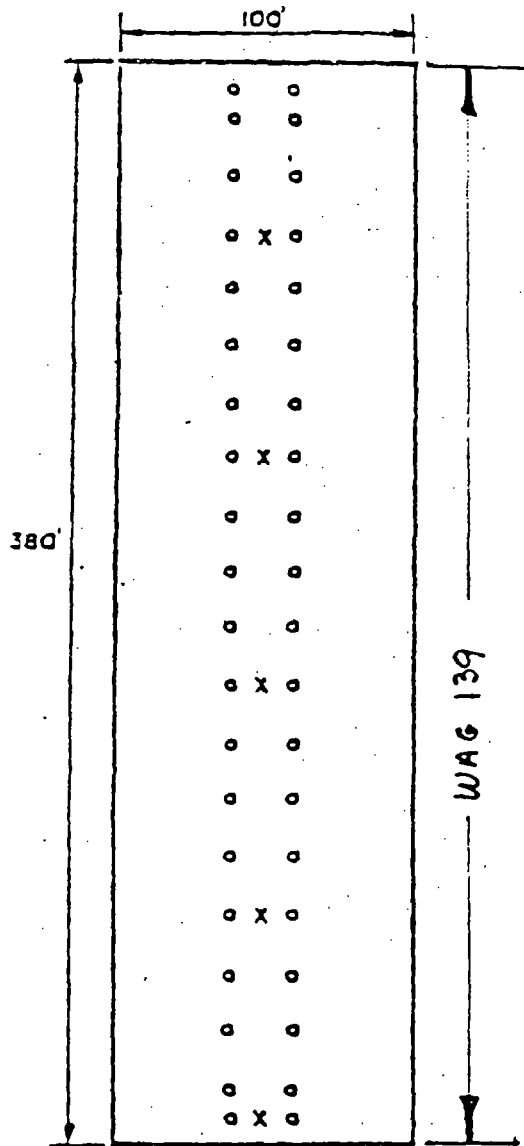
- X SAMPLING POINT
- COLUMN LOCATION

Figure 3-16

BUILDING 5
WAGNER ELECTRIC
WELLSTON, MISSOURI

FRED C. HART ASSOCIATES, INC.

3RD FLOOR



LOCATIONS OF INDIVIDUAL SAMPLES
COLLECTED TO FORM ONE COMPOSITE
SAMPLE

SAMPLE ID NO. 15-3

LEGEND

X SAMPLING POINT
• COLUMN LOCATION

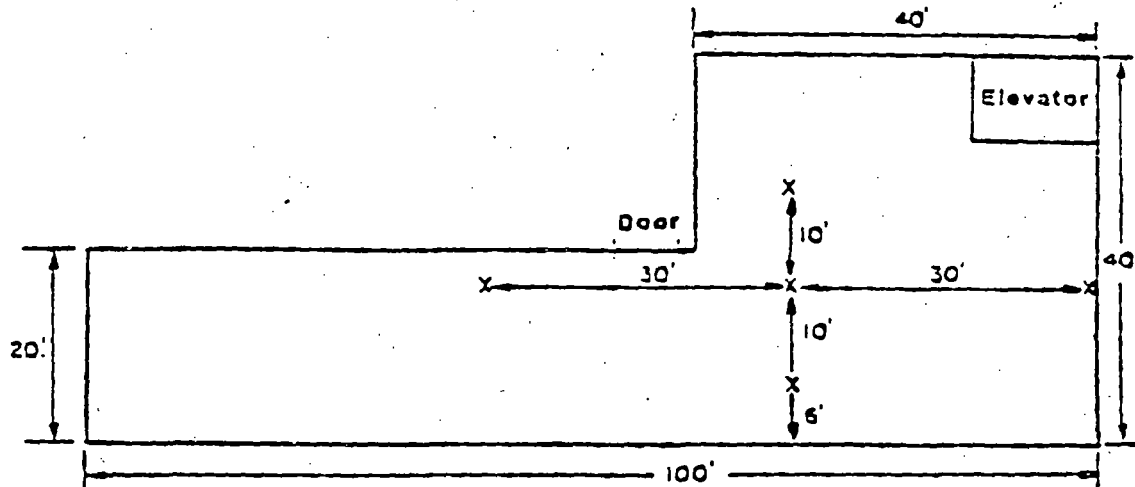
FIGURE 3-3

BUILDING 15

WAGNER ELECTRIC
WELLSTON, MISSOURI

FRED C. HART ASSOCIATES, INC.

ROOM #1



LOCATIONS OF INDIVIDUAL SAMPLES COLLECTED
TO FORM ONE COMPOSITE SAMPLE

WAG - 140

LEGEND

X

SAMPLING POINT

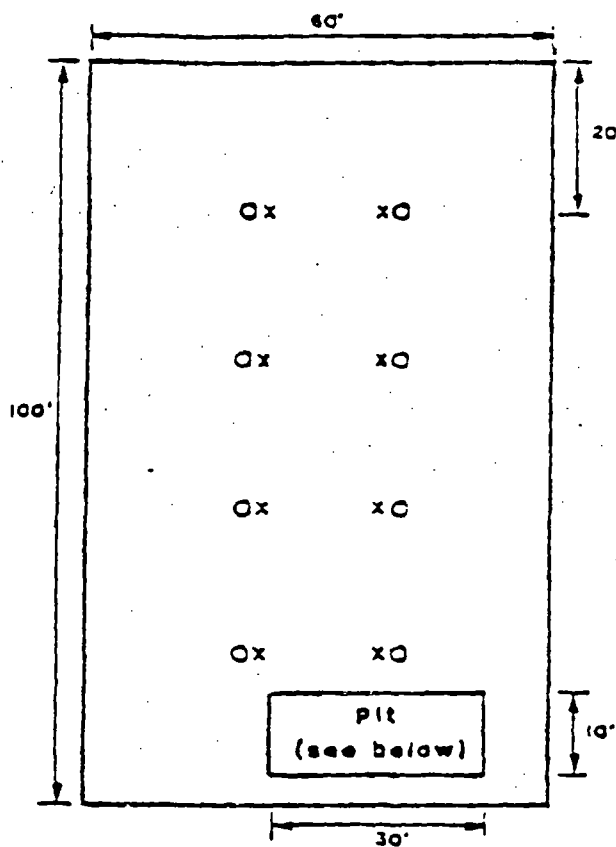
FIGURE 3-10

BUILDING 18

WAGNER ELECTRIC
WELLSTON, MISSOURI

FRED C. HART ASSOCIATES, INC.

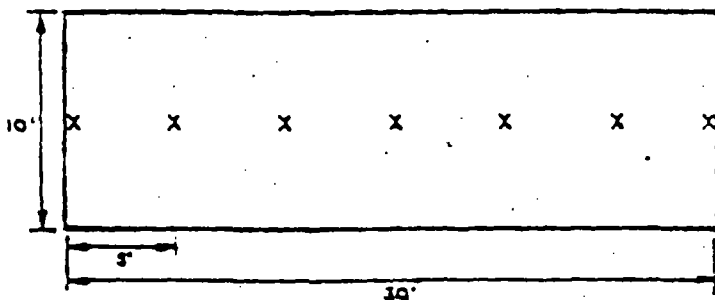
ROOM #2
20 FT. COLUMN SPACING



LOCATIONS OF INDIVIDUAL
SAMPLES COLLECTED TO
FORM ONE COMPOSITE
SAMPLE

WAG - 141

PIT



LOCATIONS OF INDIVIDUAL
SAMPLES COLLECTED TO
FORM ONE COMPOSITE
SAMPLE

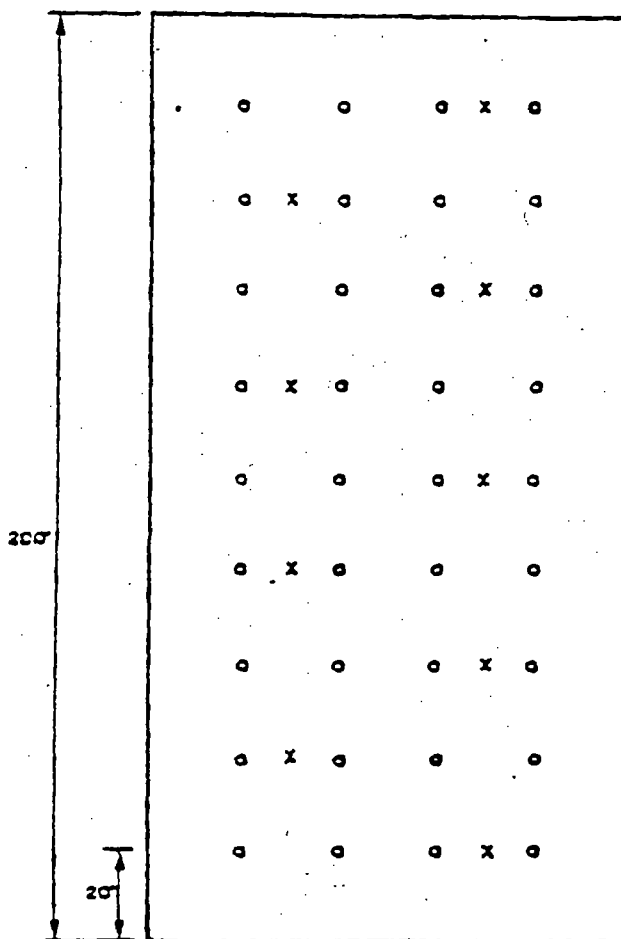
WAG - 142

LEGEND

X SAMPLING POINT
O COLUMN LOCATION

FIGURE 3-11
BUILDING 18
WAGNER ELECTRIC
WELLSTON, MISSOURI

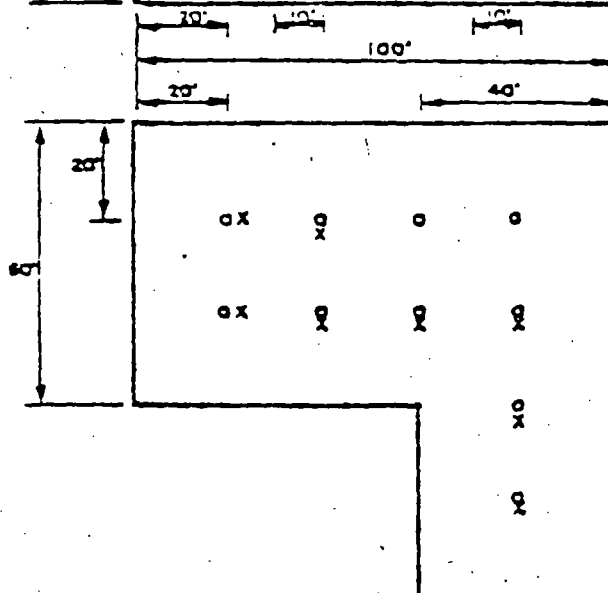
FRED C. HART ASSOCIATES, INC.



ROOM #5

LOCATIONS OF INDIVIDUAL SAMPLES
COLLECTED TO FORM ONE COMPOSITE
SAMPLE

WAG-144



ROOM #4

LOCATIONS OF INDIVIDUAL SAMPLES
COLLECTED TO FORM ONE COMPOSITE
SAMPLE

WAG-143

LEGEND

X SAMPLING POINT
O COLUMN LOCATION

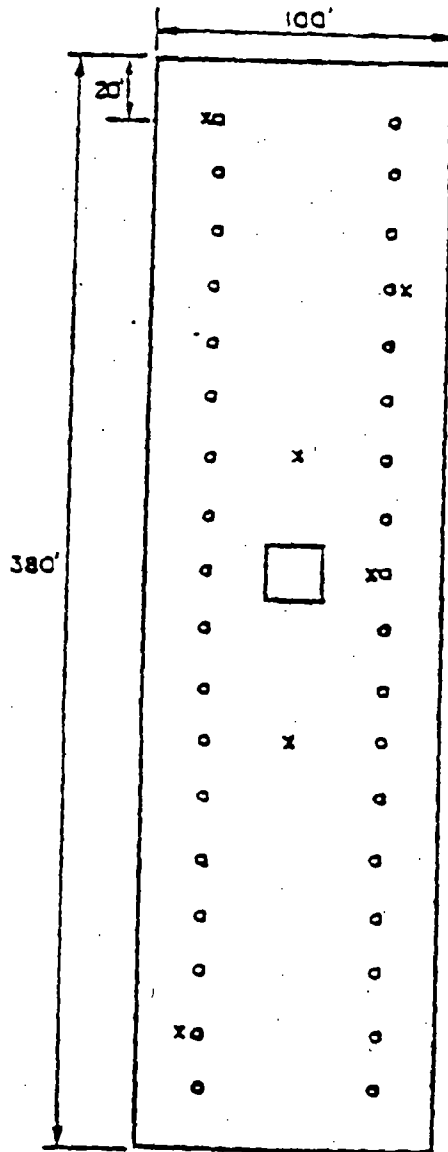
FIGURE 3-12

BUILDING 18

WAGNER ELECTRIC
WELLSTON, MISSOURI

FRED C. HART ASSOCIATES, INC.

2ND FLOOR
(8TH SAMPLE)



NOTE:

Column locations are approximate.

LOCATIONS OF INDIVIDUAL SAMPLES COLLECTED TO FORM ONE COMPOSITE SAMPLE

WAG-145

LEGEND

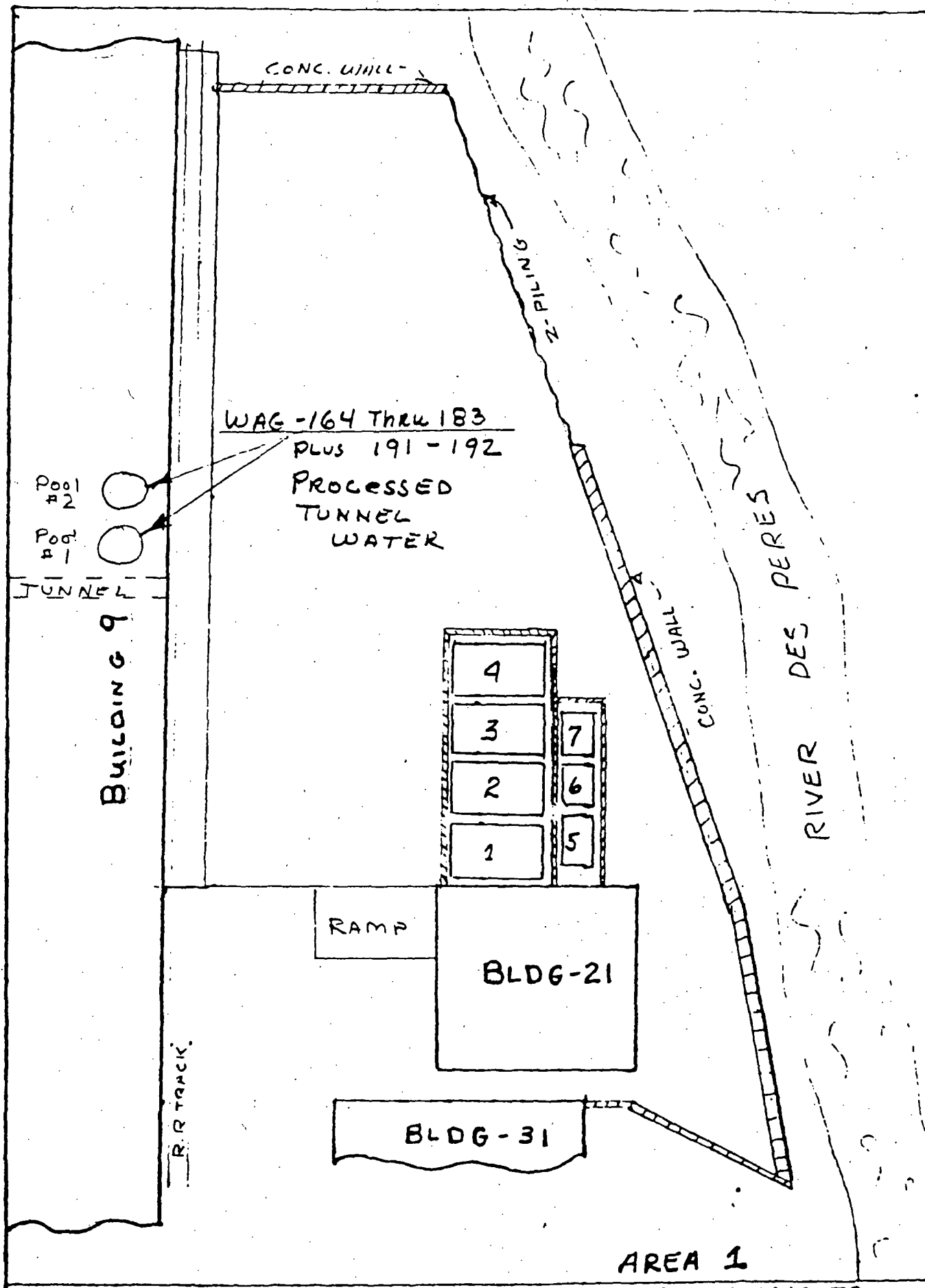
X SAMPLING POINT
O COLUMN LOCATION

FIGURE 3-13

BUILDING 18

WAGNER ELECTRIC
WELLSTON, MISSOURI

FRED C. HART ASSOCIATES, INC.

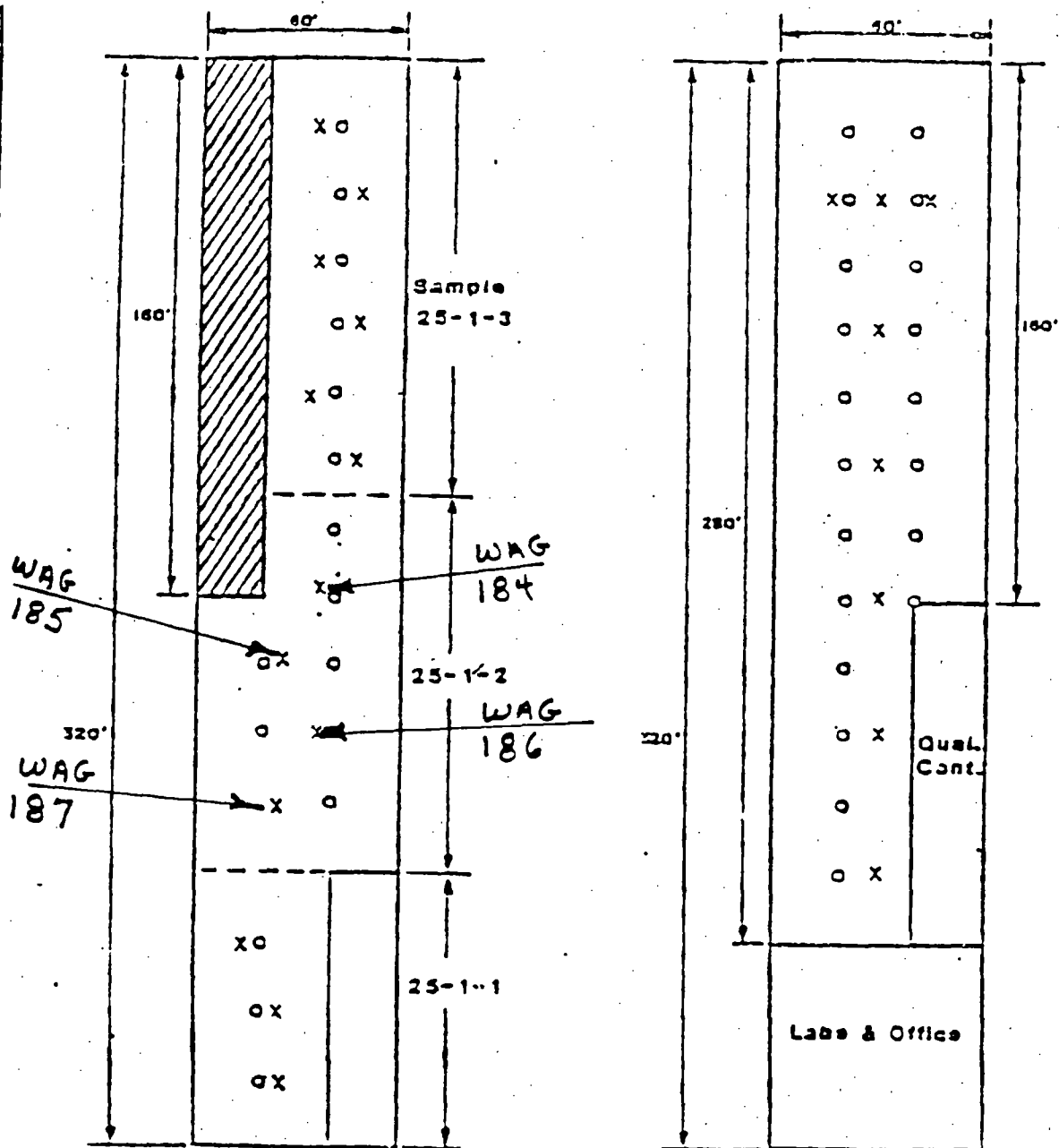


WAGNER ELECTRIC
Wellston, Mo.
1976

1ST FLOOR

2ND FLOOR

20 FT. COLUMN SPACING



DISCRETE SAMPLES OF BUILDING 25 MIDDLE FLOOR 1

LEGEND

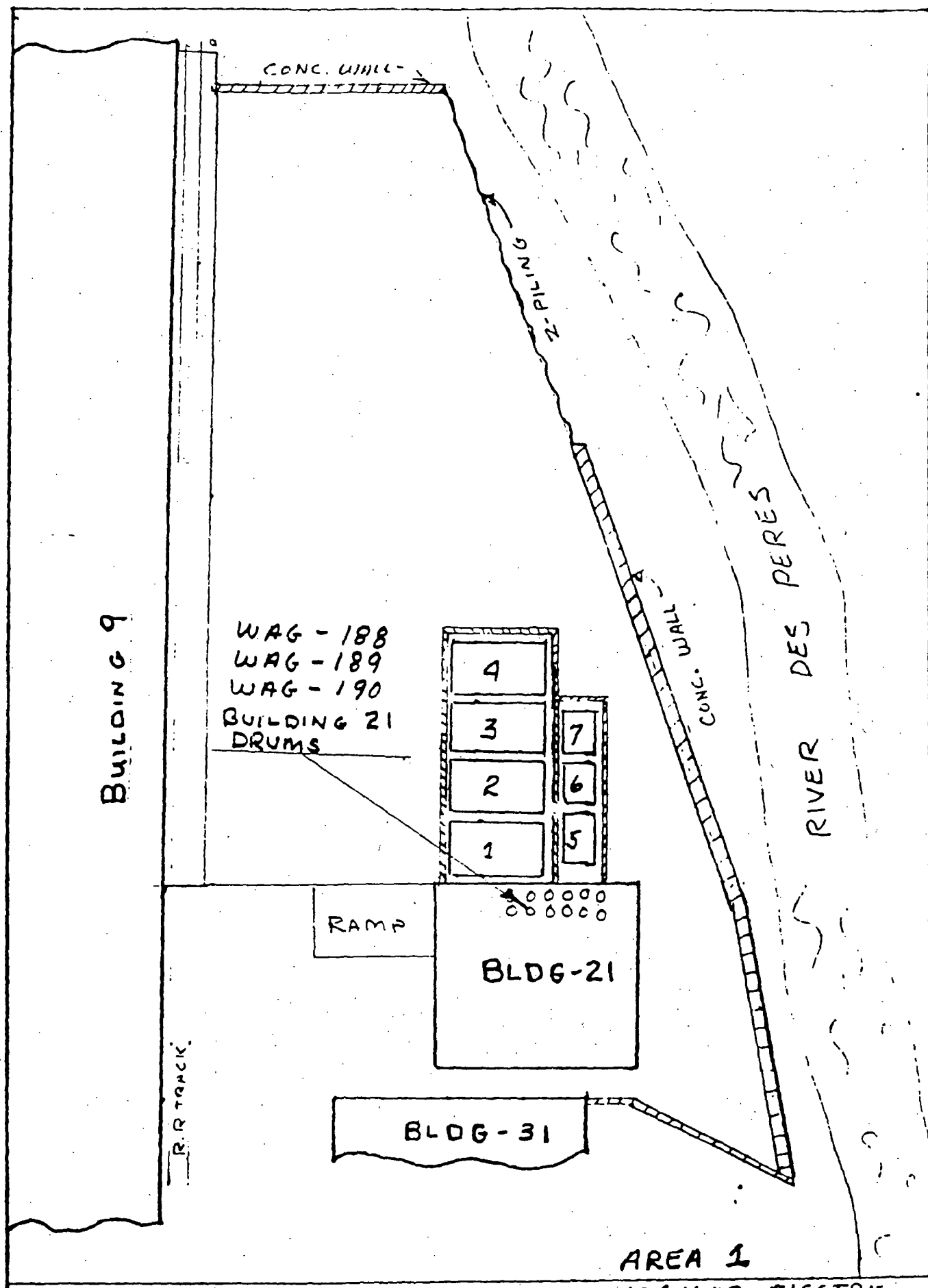
- x SAMPLING POINT
- COLUMN LOCATION

FIGURE 3-14

BUILDING 25

WAGNER ELECTRIC
WELLSTON, MISSOURI

FRED C. HART ASSOCIATES, INC.



AREA 1

WAGNER ELECTRIC
Wellston, Mo.

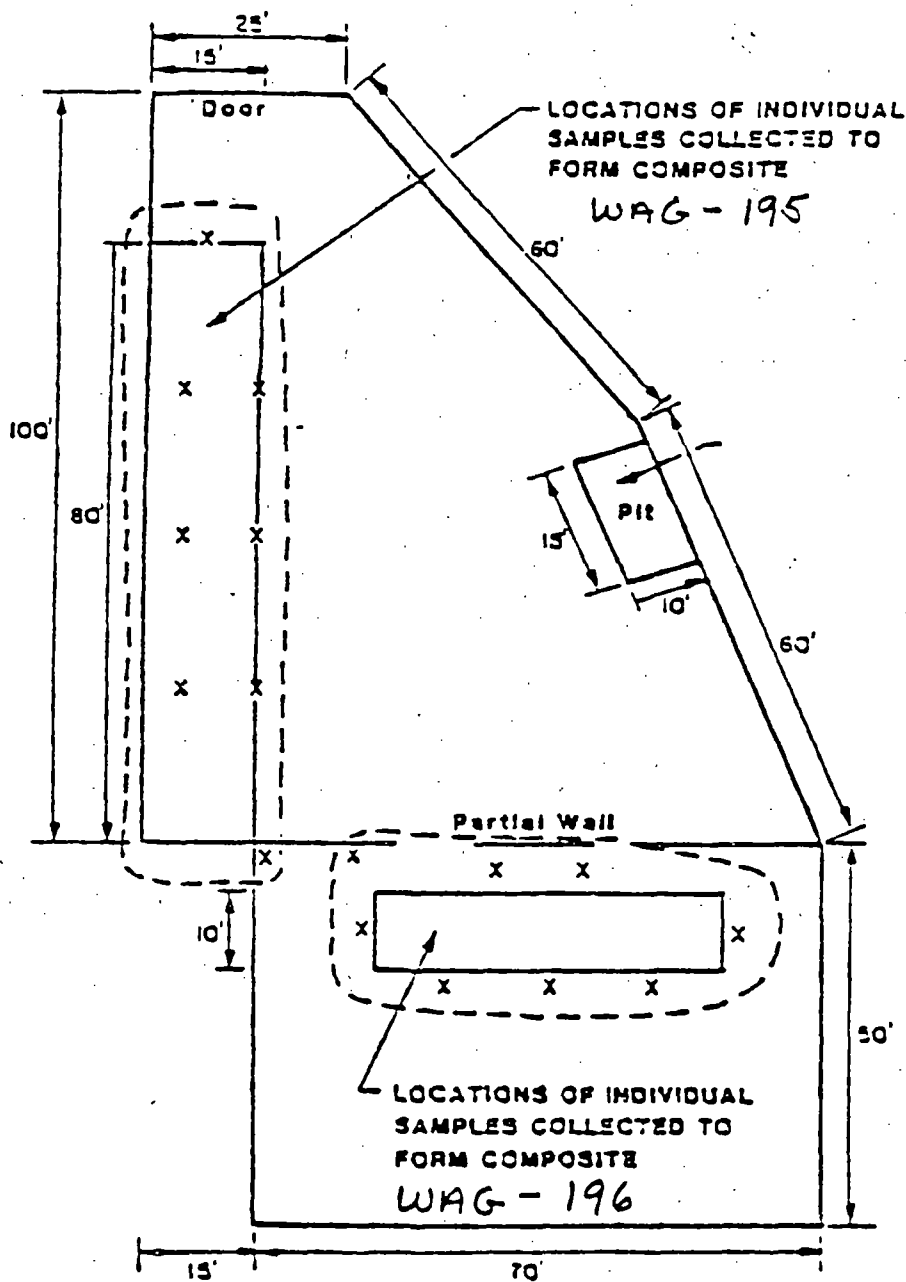


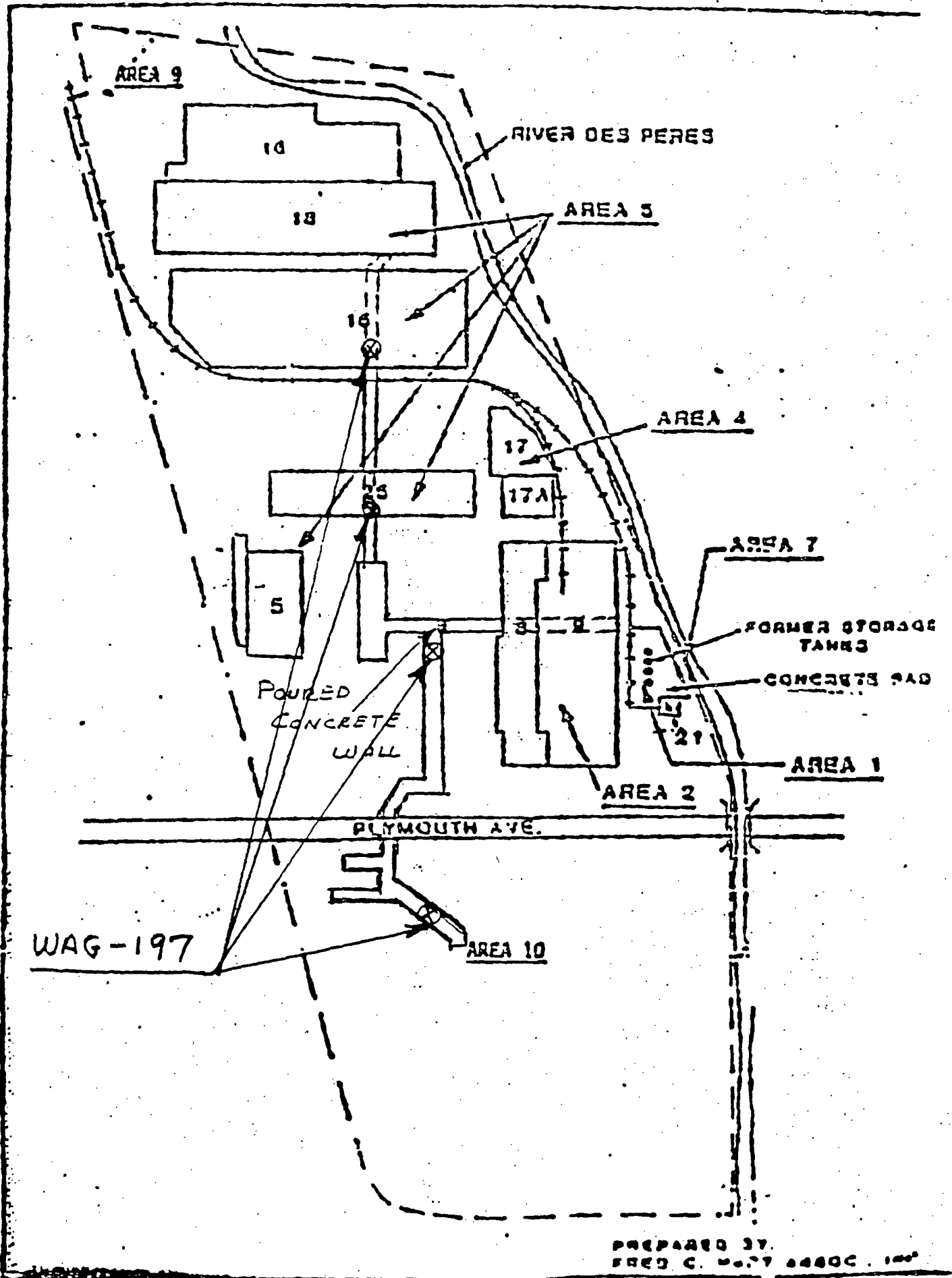
FIGURE 3-6

BUILDING 17

WAGNER ELECTRIC
WELLSTON, MISSOURI

FRED C. HART ASSOCIATES, INC.

LOCATIONS OF AREAS OF CONCERN-WAGNER ELECTRICAL CO.



PREPARED BY:
FRED C. WAGNER 6480C. 1967

7/1/88

ST. LOUIS SAMPLING RECORDS
5-11486

ENVIRONMENTAL SPECIAL SERVICES CORP.
COOPER INDUSTRIES/WARNER ELECTRIC SITE

SAMPLE #	TECH	TIME	DATE	LOCATION	TYPE OF	# OF	SAMPLE	TEST	RESULT	SAMPLE	LAB	SENT	COMMENTS
WAG 1	JS	10:00AM	6/8	B 40 N	WT	14/C/1	PCB	52 UG	3.71	AL/C	6/8	COOPER	
WAG 2	JS	10:15AM	6/8	B 40 G	WT	14/C/1	PCB	43 UG	3.07	AL/C	6/8	COOPER	
WAG 3	JS	2:00PM	6/5	B 40	BF/SC	1	PCB	17.5 PPM	17.5	IN/S	6/5	ESSC	
WAG 4	JS	2:15PM	6/5	B 40	DF/S	1	PCB	17.7 PPM	17.7	IN/S	6/5	ESSC	
WAG 5	JS	2:30PM	6/5	A1/BN	L	1	PCB	1.7 PPM	1.7	IN/S	6/5	ESSC	
WAG 6	JS	2:45PM	6/5	A1/DT	L	1	PCB	NON-DETEC	N.D.	IN/S	6/5	ESSC	
WAG 7	JS	3:00PM	6/5	A1/M,R/T	S.B	8/C/1	PCB	3.6 PPM	3.6 UG/6	IN/S	6/5	ESSC MATERIALS AROUND TANK	
WAG 8	JS	3:15PM	6/5	B 9	L	1	PCB	0.24 PPM	1.24 MG/L	IN/S	6/5	TUNNEL COOPER	
WAG 9	JS	11:00AM	6/8	B 31	C/W/T	14/C/1	PCB	39 UG	2.78	AL/C	6/8	CONFIRMATORY SAMPLE COOPER	
WAG 10	JS	12:30PM	6/8	B 40, HT	L	1	PCB	.25 PPM	.25 MG/L	IN/S	6/8	COOPER F. SIMONIC	
WAG 11	JS	1:00PM	6/8	A1,M,R,T	S.B	8/C/1	PCB	9.3 PPM	9.3 UG/6	IN/S	6/8	COOPER F. SIMONIC	
WAG 12	JS	1:15PM	6/10	A1,T,04	L	1	EP TOX	87-6-376		IN/S	6/10	ESSC	
WAG 13	JS	1:30PM	6/10	A1,T,05	L	1	EP TOX	87-6-376		IN/S	6/10	ESSC	
WAG 14	JS	1:45PM	6/10	A1,T,07	L	1	EP TOX	87-6-376		IN/S	6/10	ESSC	
WAG 15	JS	2:00PM	6/10	A1,T,ML	D	10/C/1	PCB	9.3 UG/6	9.3 PPM	IN/S	6/10	ESSC	
WAG 16	JS	2:15PM	6/10	A1,E,ML	D	10/C/1	PCB	4.6 UG/6	4.6 PPM	IN/S	6/10	ESSC	
WAG 17	JS	2:30PM	6/10	A1,BR,B9	WT	14/C/1	PCB	7600 UG	542.95	AL/C	6/10	COOPER	
WAG 18	JS	3:00PM	6/10	B 23	WT	14/C/1	PCB	290 UG	20.7	AL/C	6/10	COOPER	
WAG 19	JS	11:00AM	6/17	B 35, N	WT	8/C/1	PCB	3500 UG	437.5	AL/C	6/17	COOPER	
	JS	11:00AM	6/17	B 35, N	WT	8/C/1	PCB					FOR E.P.A.	
WAG 20	JS	11:30PM	6/17	B 35, S	WT	8/C/1	PCB	280 UG	35	AL/C	6/17	COOPER	
WAG 21	JS	1:30PM	6/17	B, 40, N	WT	14/C/1	PCB	3 UG	0.214	IN/S	6/17	RETEST COOPER	
WAG 21	JS	2:00PM	6/17	A1,B,I	L	1	EP TOX	87-6-369		IN/S	6/18	ESSC	

ST. LOUIS SAMPLING RECORDS ENVIRONMENTAL SPECIAL SERVICES CORP
4-1148 COOPER INDUSTRIES-WARNER ELECTRIC SITE

SAMPLE #	TECH	TIME	DATE	LOCATION	TYPE OF SAMPLE	N OF SAMPLES	TEST	RESULT	RESULT / SAMPLE	LAB	DATE	COMMENTS
WAG 22	JS	2:15PM	6/17	A1,D,II	L	1	SEP TOX	87-6-369		IN/S	6/18	ESSE
WAG 23	JS	2:30PM	6/17	A1,D,III	L	1	SEP TOX	87-6-369		IN/S	6/18	ESSE
WAG 24	JS	2:45PM	6/17	A1,D,IV	L	1	SEP TOX	87-6-369		IN/S	6/18	ESSE
WAG 25	JS	3:00PM	6/17	A1,D,V	C	1	SEP TOX	87-6-369		IN/S	6/18	ESSE
WAG 26	JS	3:15PM	6/17	A1,D,VI	L	1	SEP TOX	87-6-369		IN/S	6/18	ESSE
WAG 27	JS	8:15AM	6/17	A1,D,VII	L	1	SEP TOX	87-6-369		IN/S	6/18	ESSE
WAG 28	JS	8:30AM	6/17	A1,D,VIII	L	1	SEP TOX	87-6-369		IN/S	6/18	ESSE
WAG 29	JS	8:45AM	6/17	A1,D,IX	L	1	SEP TOX	87-6-369		IN/S	6/18	ESSE
WAG 30	JS	9:00AM	6/17	A1,D,X	L	1	SEP TOX	87-6-369		IN/S	6/18	ESSE
WAG 31	JS	9:15AM	6/17	A1,D,XI	L	1	SEP TOX	87-6-369		IN/S	6/18	ESSE
WAG 32		VOID										
WAG 33	JS	9:30AM	6/24	A1,T,4,5,7	L	3/C/1	PCB	117 UG/S	117 PPM	IN/S	6/24	
WAG 34	JS	9:40AM	6/24	A1,RT	S	3/C/1	PCB	165 UG/S	165 PPM	IN/S	6/24	SOIL AROUND TANK
WAG 35	JS	9:50AM	6/24	A1,RT	WD/SC	3/C/1	PCB	206 UG/S	206 PPM	IN/S	6/24	WOOD FROM RR TRACYS E S.S.C.
WAG 36	JS	2:30PM	6/30	B 35,N,E,1	M	1	PCB	5 UG/S	5	AL/C	6/30	COOPER
WAG 37	JS	2:35PM	6/30	B 35,N,E,2	M	1	PCB	25 UG/S	25	AL/C	6/30	COOPER
WAG 38	JS	2:40PM	6/30	B 35,N,E,3	M	1	PCB	22 UG/S	22	AL/C	6/30	COOPER
WAG 39	JS	2:45PM	6/30	B 35,N,E,4	M	1	PCB	1300 UG/S	1300	AL/C	6/30	COOPER
WAG 40	JS	2:50PM	6/30	B 35,N,E,5	M	1	PCB	27 UG/S	27	AL/C	6/30	COOPER
WAG 41	JS	2:55PM	6/30	B 35,N,E,6	M	1	PCB	26 UG/S	26	AL/C	6/30	COOPER

ST. LOUIS SAMPLING RECORDS

ENVIRONMENTAL SPECIAL SERVICES CORP.

4-1148

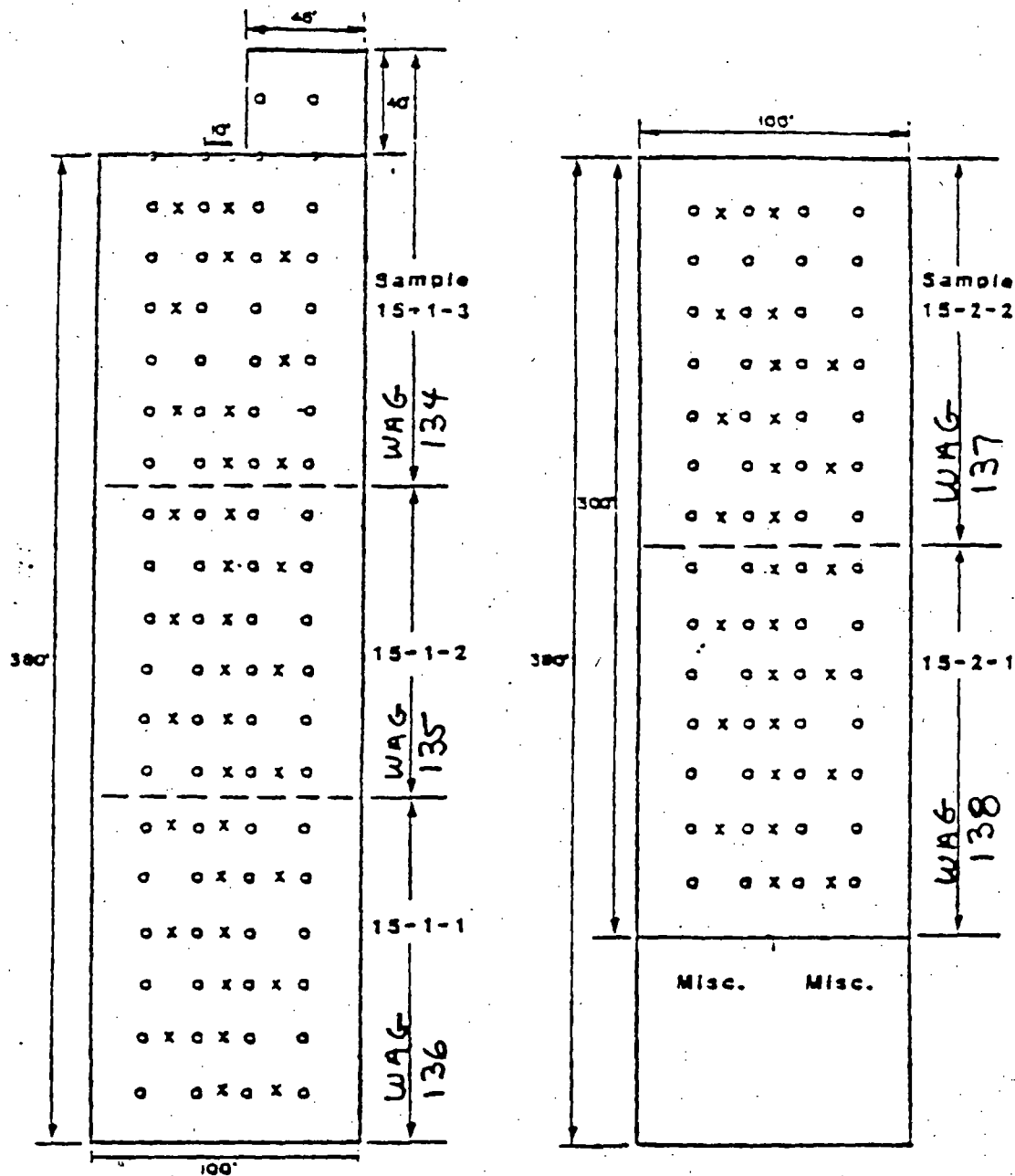
COOPER INDUSTRIES/WORKER ELECTRIC SITE

SAMPLE	TECH	TIME	DATE	LOCATION	TYPE OF	NO OF	RESULT	SAMPLE	LAB	DATE	COMMENTS
NO					SAMPLE	SAMPLES	TEST			SENT	
WAG 42	JS	3:00PM	6/30	B35,N.E.7	M	1	PCB	60 UG/S	60	AL/C	6/30 :COOPER
WAG 43	JS	3:05PM	6/30	B35,N.E.8	M	1	PCB	90 UG/S	90	AL/C	6/30 :COOPER
WAG 44	DR	9:00AM	7/14	A1,T4,UN	L	1	PCB	280 MG/KG	280 PPB	AL/C	7/15 :COOPER
WAG 44	GM	9:10AM	7/14	A1,T4,UN	S/C	1	TOX,PP PCB	14 MG/KG	14 PPB	AL/C	:COOPER 7/15
WAG 45	JM	3:30PM	7/14	B, 9, TU	L	TOX,PP C/GRAB	PCB	170 UG/L	170 PPB	AL/C	7/15 :COOPER
WAG 46	JS	3:45PM	7/14	B, 9, TU	L	TOX,PP C/GRAB	PCB	13 UG/L	13 PPB	AL/C	7/15 :COOPER
WAG 47	JS	1:30PM	7/15	B9,A1,B,M	M	4/C/1	PCB	N.D.	N.D.	AL/C	7/16 :COOPER
WAG 48	JS	8:35AM	7/16	DP	L	7/C/L	PCB	N.D.	N.D.	IN/S	7/16 :ESSC
WAG 49	JS	8:45AM	7/16	ST,FB's	M	4/C/1	PCB	69	17.25	IN/S	7/16 :ESSC
WAG 50	JS	12:30PM	7/16	B35,S.E.4	M	1	PCB	23 UG/S	23	AL/C	7/16 :RETAKE BY HOT AREA ON SS COOPER
WAG 51	JS	2:00PM	7/28	A1,RT,EX,1	S	5/C/1	PCB	100 PPM	100	AL/C	7/29 :SEE MEMO 8/10 COOPER
WAG 52	JS	2:05PM	7/28	A1,RT,EX,2	S	5/C/1	PCB	280 PPM	280	AL/C	7/29 :SEE MEMO 8/10 COOPER
WAG 53	JS	2:10PM	7/28	A1,RT,EX,3	S	5/C/1	PCB	24 PPM	24	AL/C	7/29 :SEE MEMO 8/10 COOPER
WAG 54	JS	2:15PM	7/28	A1,RT,EX,4	S	5/C/1	PCB	48 PPM	48	AL/C	7/29 :SEE MEMO 8/10 COOPER
WAG 55	JS	2:20PM	7/28	A1,RT,EX,5	S	5/C/1	PCB	400 PPM	400	AL/C	7/29 :SEE MEMO 8/10 COOPER
WAG 56	RN	1:00PM	7/29	A1,RT,EX,4	S	5/C/1	PCB				:EPA
WAG 57	GM	2:00PM	7/30	B9,EX,M	D/B	10/C/1	PCB	170 PPM	170 PPM	AL/C	7/30 :COOPER MG/KG
WAG 58	RN	2:00PM	7/30	B9,EX,M	D/B	10/C/1	PCB				:EPA
WAG 59	JS	2:20PM	7/30	B35,N.H.1	M	1	PCB	4 UG/S	4	AL	7/31 :COOPER
WAG 60	JS	2:25PM	7/30	B35,N.E.H.2	M	1	PCB	37 UG/S	37	AL	7/31 :COOPER
WAG 61	JS	2:30PM	7/30	B35,N.E.H.3	M	1	PCB	34 UG/S	34	AL	7/31 :COOPER
WAG 62	JS	2:35PM	7/30	B35,N.E.H.4	M	1	PCB	14 UG/S	14	AL	7/31 :COOPER
WAG 63	JS	2:40PM	7/30	B35,N.E.H.5	M	1	PCB	7 UG/S	7	AL	7/31 :COOPER

1ST FLOOR

2ND FLOOR

20 FT. COLUMN SPACING



LOCATIONS OF INDIVIDUAL SAMPLES COLLECTED
TO FORM ONE COMPOSITE SAMPLE

COMPOSITE SAMPLE NUMBERING SYSTEM.

e.g. 15(BUILDING #) - 1(FLOOR #)
- 2(COMPOSITE #)

LEGEND

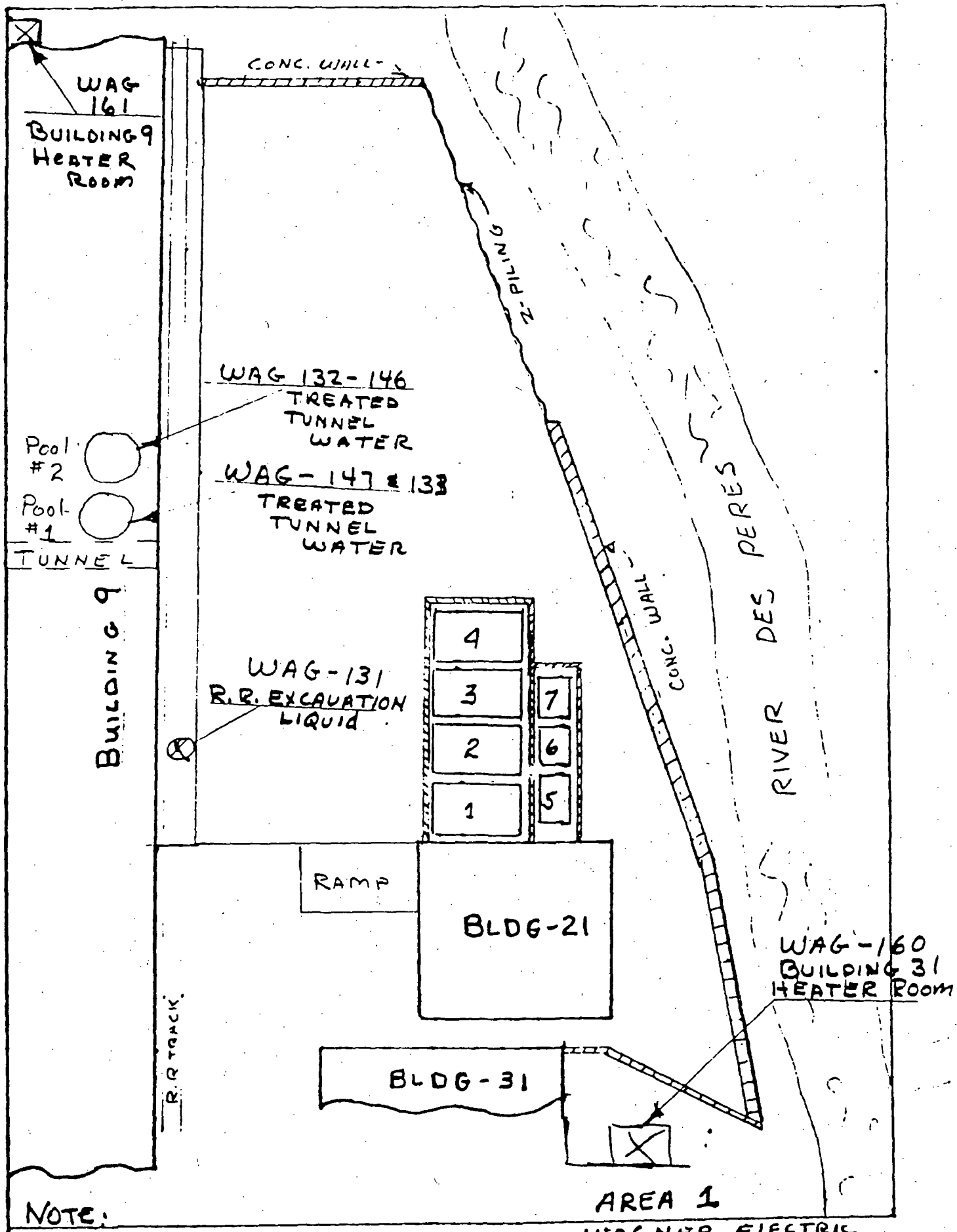
- x SAMPLING POINT
- o COLUMN LOCATION

FIGURE 3-7

BUILDING 15

WAGNER ELECTRIC
WELLSTON, MISSOURI

FRED C. HART ASSOCIATES, INC.



WAGNER ELECTRIC
Wellston, Mo.
Aug 26 1964

07-Dec-87

ST. LOUIS SAMPLING RECORDS

S-1448

ENVIRONMENTAL SPECIAL SERVICES CORP.

COOPER INDUSTRIES-WAGNER ELECTRIC SITE

SAMPLE #	TECH	TIME	DATE	LOCATION	TYPE OF SAMPLE	# OF SAMPLES	TEST	RESULT	RESULT SAMPLE	LAB	DATE SENT	COMMENTS
WAG 64	JS	8:30PM	8/05	SE/A1	M	4/C/1	PCB	735 UG	735	IN	8/05	TRAIN TRACKS COOPER
WAG 65	JS	8:30PM	8/05	SE/A1	M	4/C/1	PCB					EPA
WAG 66	JS	2:30PM	8/18	EX,A1,W20	L	1	PCB	4 PPB UG/L	4 PPB	AL/C	8/18	COOPER
WAG 67	JS	2:30PM	8/18	EX,A1,W20	L	4/C/1	PCB					EPA
WAG 68	JS	2:30PM	8/20	B3S,N,E,4	M	1	PCB	3600 UG/S	3600	AL/C	8/20	COOPER
WAG 69	JS	2:30PM	8/20	B3S,N,E,5	M	1	PCB					EPA
WAG 70	JS	7:30PM	8/24	A9,E1	MT	10/C/1	PCB					SAMPLE LOST IN LAB COOPER
WAG 71	JS	18:00 AM	8/24	A9,E2	MT	10/C/1	PCB	12 UG	1.2	AL		PER 100 CM SO. COOPER
WAG 72	JS	18:30 AM	8/24	A9,E3	MT	10/C/1	PCB	14 UG	1.4	AL		COOPER
WAG 73	JS	17:30 AM	8/24	A9,E1	MT	10/C/1	PCB					EPA
WAG 74	JS	18:00 AM	8/24	A9,E2	MT	10/C/1	PCB					EPA
WAG 75	JS	18:30 AM	8/24	A9,E3	MT	10/C/1	PCB					EPA
WAG 76	JS	1:45PM	8/27	B3S,E,4	M	1	PCB	1 UG/S	1	AL	8/29	COOPER BLDG. 35
WAG 77	JS	1:45PM	8/27	B3S,E,4	M	1						EPA
WAG 78	JS	3:30PM	9/08	EX,ML,A1 POINT 0	S	1	PCB	75 UG/KG	75 PPM	AL	9/09	COOPER AREA 1 EXCAV. WALL PT. 2
WAG 79	JS	3:35PM	9/08	EX,ML,A1 POINT 20	S	1	PCB	1200 NG/KG	200 PPM	AL	9/09	COOPER AREA 1 EXCAV. N 20
WAG 80	JS	3:40PM	9/08	A1,EX,ML,N,60	S	1	PCB	60 NG/KG	60 PPM	AL	9/09	COOPER AREA 1 EXCAV. N 40
WAG 81	JS	3:45PM	9/08	A1,EX,ML,N,60	S	1	PCB	170 NG/KG	170 PPM	AL	9/09	COOPER AREA 1 EXCAV. N 40
WAG 82	JS	3:50PM	9/08	A1,EX,ML,N,80	S	1	PCB	80 NG/KG	800 PPM	AL	9/09	COOPER AREA 1 EXCAV. N 80
WAG 83	JS	3:55PM	9/08	A1,EX,ML,S,10	S	1	PCB	5 NG/KG	5 PPM	AL	9/09	COOPER AREA 1 EXCAV. S 10
WAG 84	JS	4:00PM	9/08	A1,EX,ML,S,20	S	1	PCB	120 NG/KG	120 PPM	AL	9/09	COOPER AREA 1 EXCAV. S 20
WAG 85	JS	4:05PM	9/08	A1,EX,ML,S,30	S	1	PCB	50 NG/KG	50 PPM	AL	9/09	COOPER AREA 1 EXCAV. S 30
WAG 85	JS	4:10PM	9/08	A1,EX,ML,S,40	S	1	PCB	7 NG/KG	7 PPM	AL	9/09	COOPER AREA 1 EXCAV. S 40

SAMPLE #	TECH	TIME	DATE	LOCATION	TYPE OF SAMPLE	# OF SAMPLES	TEST	RESULT	RESULT / SAMPLE	LAB	DATE SENT	COMMENTS
MAG 87	JS	3:30PM	9/08	A1, EX, ML POINT 0	S	1	PCB					EPA
MAG 88	JS	3:35PM	9/08	A1, EX, ML, N, 20	S	1	PCB					EPA
MAG 89	JS	3:40PM	9/08	A1, EX, ML, N, 40	S	1	PCB					EPA
MAG 90	JS	3:45PM	9/08	A1, EX, ML, N, 60	S	1	PCB					EPA
MAG 91	JS	3:50PM	9/08	A1, EX, ML, N, 80	S	1	PCB					EPA
MAG 92	JS	3:55PM	9/08	A1, EX, ML, S, 10	S	1	PCB					EPA
MAG 93	JS	4:00PM	9/08	A1, EX, ML, S, 20	S	1	PCB					EPA
MAG 94	JS	4:05PM	9/08	A1, EX, ML, S, 30	S	1	PCB					EPA
MAG 95	JS	4:10PM	9/08	A1, EX, ML, S, 40	S	1	PCB					EPA
MAG 96	JS	8:00AM	9/14	A1, EX, ML, UN	S	5/C/1	PCB	1530 UG/G	1530 PPM	IN/S	9/14	COOPER
MAG 97	JS	8:00AM	9/14	A1, EX, ML, UN	S	5/C/1	PCB					EPA
MAG 98	JS	1:30PM	9/23	A1, EX, ML, N20	S	1	PCB	1000 MG/PG	1000 PPM	AL/C	9/24	COOPER AREA 1 N-20 POINT 0
MAG 99	JS	1:40PM	9/23	A1, EX, ML, N80	S	1	PCB	660 MG/KG	660 PPM	AL/C	9/24	COOPER AREA 1 N-80 POINT 0
MAG 100	JS	1:45PM	9/23	A1, EX, ML, S50	S	1	PCB	9 MG/KG	9 PPM	AL/C	9/24	COOPER AREA 1 S-50 POINT 0
MAG 101	JS	1:50PM	9/23	A1, EX, ML, S60	S	1	PCB	8 MG/KG	8 PPM	AL/C	9/24	COOPER AREA 1 S-60 POINT 0
MAG 102	JS	1:50PM	9/23	A1, EX, ML, N20	S	1	PCB					EPA
MAG 103	JS	1:40PM	9/23	A1, EX, ML, N80	S	1	PCB					EPA
MAG 104	JS	1:45PM	9/23	A1, EX, ML, S50	S	1	PCB					EPA
MAG 105	JS	1:50PM	9/23	A1, EX, ML, S60	S	1	PCB					EPA
MAG 106	JS	8:00AM	9/24	MAG 70	M	10/C/1	PCB	24 UG	12.4 UG/SH	AL/C	9/24	COOPER RESAMPLE OF MAG 70
MAG 107	JS	9:00AM	9/29	B25, FL1, E1	M	3/C/1	PCB	35 UG	11.6 UG/CM	AL/C	10/1	COOPER BLDG 25 1ST FL. E-1
MAG 108	JS	9:20AM	9/29	B25, FL1, E2	M	4/C/1	PCB	400 UG	100 UG/CM	AL/C	10/1	COOPER BLDG 25 1ST FL. E-2
MAG 109	JS	9:40AM	9/29	B25, FL1, E3	M	6/C/1	PCB	49 UG	8.16 UG/CM	AL/C	10/1	COOPER BLDG 25 1ST FL. E-1
MAG 110	JS	10:00AM	9/29	B25, FL, 2	M	8/C/1	PCB	39 UG	4.8 UG/CM	AL/C	10/1	COOPER BLDG 25 1ST FL.
MAG 111	JS	9:00 AM	9/29	B25, FL1, E1	M	3/C/1	PCB					EPA

10-06-97

ST. LOUIS SAMPLING RECORD
R-144B

ENVIRONMENTAL SPECIAL SERVICES CORP
COOPER INDUSTRIES-WAGNER ELECTRIC SITE

SAMPLE #	TECH	TIME	DATE	LOCATION	TYPE OF SAMPLE	NO OF SAMPLES	TEST	RESULT	RESULT / SAMPLE	LAB	DATE SENT	COMMENTS
WAG 110	JS	9:20AM	9/29	B25, FL1, E2	M	4/C/1	PCB					EPA
WAG 113	JS	9:40AM	9/29	B25, FL1, M1	M	6/C/1	PCB					EPA
WAG 114	JS	10:00AM	9/29	B25, FL, 2	M	8/C/1	PCB					EPA
WAG 115	JS	1:20PM	9/30	EX, A1, H20	L	1	PCB	<1 UG/L	<1 PPB	IN/S	9/30	POOL H20 TUNNEL COOPER
WAG 116	JS	2:00PM	9/30	B9, TU, H20	L	1	PCB	<1 UG/L	<1 PPB	IN/S	9/30	COOPER
WAG 117	JS	1:20PM	9/30	EX, A1, H20	L	1	PCB					EPA
WAG 118	JS	2:00PM	9/30	B9, TU, H20	L	1	PCB					EPA
				CONFIRM.								
WAG 119	JS	4:00PM	9/30	AB, S, E	M	6/C/1	PCB	19 UG	13.14UG/SH	AL/C	10/1	COOPER AREA B S, E
WAG 120	JS	4:10PM	9/30	AB, N, E	M	6/C/1	PCB	58 UG	19.6 UG/SH	AL/C	10/1	COOPER AREA B N, E
WAG 121	JS	4:20PM	9/30	AB, S, W	M	6/C/1	PCB	28 UG	14.6 UG/SH	AL/C	10/1	COOPER AREA B S, W
WAG 122	JS	4:30PM	9/30	AB, N, W	M	5/C/1	PCB	48 UG	19.6 UG/SH	AL/C	10/1	COOPER AREA B N, W
WAG 123	JS	4:00PM	9/30	AB, S, E	M	6/C/1	PCB					EPA
WAG 124	JS	4:10PM	9/30	AB, N, E	M	6/C/1	PCB					EPA
WAG 125	JS	4:20PM	9/30	AB, S, W	M	6/C/1	PCB					EPA
WAG 126	JS	4:30PM	9/30	AB, N, W	M	5/C/1	PCB					EPA
WAG 127	JS	10:00AM	10/1	B5, FL, 1	M	16/C/1	PCB	99 UG	16.1 UG/SH	AL/C	10/1	COOPER BLDG. 5 1ST FL.
WAG 128	JS	10:20AM	10/1	B5, FL, 2	M	8/C/1	PCB	36 UG	14.5 UG/SH	AL/C	10/1	COOPER BLDG. 5 2ND FL.
WAG 129	JS	10:00AM	10/1	B5, FL, 1	M	16/C/1	PCB					EPA
WAG 130	JS	10:20AM	10/1	B5, FL, 2	M	8/C/1	PCB					EPA
WAG 131	JS	10:30AM	10/2	EX, A1, H20	L	1	PCB					MSD SAMPLE
WAG 132	JP	8:30AM	10/8	B9, TU, H20	L	1	PCB	<1 UG/L	<1 PPB	AL/C	10/14	COOPER PER F. S. INHUC
				02 POOL								
WAG 133	JP	3:30PM	10/8	B9, TU, H20	L	1	PCB	<1 UG/L	<1 PPB	AL/C	10/14	COOPER PER F. S. INHUC
				01 POOL								
WAG 134	JS	9:00AM	10/9	B15, FL1, E1	M	6/C/1	PCB	24 UG	4 UG/SH	AL/C	10/14	COOPER BLDG 15

12 Dec 87

ST. LOUIS SAMPLING RECORDS
R-1443ENVIRONMENTAL SPECIAL SERVICES CORP
COOPER INDUSTRIES/MAGNEF ELECTRIC SITE

SAMPLE #	TECH	TIME	DATE	LOCATION	TYPE OF SAMPLE	# OF SAMPLES	TEST	RESULT	RESULT/ SAMPLE	LAB	DATE SENT	COMMENTS
MAG 135	JS	9:20AM	10/9	B15, FL1, E2	M	12/C/1	PCB	43/UG	13.3UG/SM	AL/C	10/14	COOPER BLDG 15
MAG 136	JS	9:40AM	10/9	B15, FL1, M1	M	10/C/1	PCB	41/UG	4.1UG/SM	AL/C	10/14	COOPER BLDG 15
MAG 137	JS	10:00AM	10/9	B15, FL2, E1	M	12/C/1	PCB	30/UG	12.5UG/SM	AL/C	10/14	COOPER BLDG 15
MAG 138	JS	10:20AM	10/9	B15, FL2, M1	M	12/C/1	PCB	52/UG	4.3UG/SM	AL/C	10/14	COOPER BLDG 15
MAG 139	JS	10:40AM	10/9	B15, FL3	M	5/C/1	PCB	N/D	N/D	AL/C	10/14	COOPER BLDG 15
MAG 140	JS	3:00PM	10/13	B18, RN, 1	M	5/C/1	PCB	56/UG	11.2UG/SM	AL/C	10/14	COOPER BLDG 18
MAG 141	JS	2:40PM	10/13	B18, RN, 2	M	8/C/1	PCB	11/UG	1.3UG/SM	AL/C	10/14	COOPER BLDG 18
MAG 142	JS	2:20PM	10/13	B18, RN, 2 PIT	M	7/C/1	PCB	18/UG	2.5UG/SM	AL/C	10/14	COOPER BLDG 18
MAG 143	JS	2:00PM	10/13	B18, RN, 4	M	8/C/1	PCB	18/UG	2.5UG/SM	AL/C	10/14	COOPER BLDG 18
MAG 144	JS	1:40PM	10/13	B18, RN, 5	M	9/C/1	PCB	400/UG	44.4UG/SM	AL/C	10/14	COOPER BLDG 18
MAG 145	JS	1:20PM	10/13	B18, FL, 2	M	12/C/1	PCB	28/UG	2.3UG/SM	AL/C	10/14	COOPER BLDG 18
MAG 146	JS	7:28PM	10/9	B9, TU, H2O #2 POOL CONF.	L	1	PCB	11 UG/L	11 PPB	IN/S	10/10	COOPER
MAG 147	JS	11:25PM	10/9	B9, TU, H2O #1 POOL CONF.	L	1	PCB	11 UG/L	11 PPB	IN/S	10/10	COOPER
MAG 148	JS	9:00AM	10/9	B15, FL1, E	M	4/C/1	PCB					EPA
MAG 149	JS	9:20AM	10/9	B15, FL1, E2	M	12/C/1	PCB					EPA
MAG 150	JS	9:40AM	10/9	B15, FL1, M1	M	10/C/1	PCB					EPA
MAG 151	JS	10:00AM	10/9	B15, FL2, E1	M	12/C/1	PCB					EPA
MAG 152	JS	10:20AM	10/9	B15, FL2, M1	M	12/C/1	PCB					EPA
MAG 153	JS	10:40PM	10/9	B15, FL3	M	5/C/1	PCB					10/13:EPA
MAG 154	JS	3:00PM	10/13	B18, RN, 1	M	5/C/1	PCB					10/13:EPA
MAG 155	JS	2:40PM	10/13	B18, RN, 2	M	8/C/1	PCB					10/13:EPA
MAG 156	JS	2:20PM	10/13	B18, RN, 2 PIT	M	7/C/1	PCB					10/13:EPA
MAG 157	JS	2:00PM	10/13	B18, RN, 4	M	8/C/1	PCB					10/13:EPA
MAG 158	JS	1:40PM	10/13	B18, RN, 5	M	9/C/1	PCB					10/13:EPA

G- Dec-87

ST. LOUIS SAMPLING RECORDS
R-1448ENVIRONMENTAL SPECIAL SERVICES CORP
COOPER INDUSTRIES/WAGNER ELECTRIC SITE

SAMPLE	TECH	TIME	DATE	LOCATION	TYPE OF	# OF	RESULT	DATE	COMMENTS			
1					SAMPLE	SAMPLES	TEST	RESULT	SAMPLE	LAB	SENT	
WAG 159	JS	1:20PM	10/13	B18, FL 2	M	12/C/1	PCB					10/13:EPA
WAG 160	JS	3:10PM	10/13	B31, PIT	M	3/C/1	PCB	18/UG	16 UG/SH	AL/C		10/14:COOPER BLDG 31 OIL PUMP HOUSE
WAG 161	JS	3:20PM	10/13	B9, PIT	M	2/C/1	PCB	20/UG	10 UG/SH	AL/C		10/14:COOPER BLDG 9 OIL PUMP HOUSE
WAG 162	JS	3:10PM	10/13	B31, PIT	M	3/C/1	PCB					10/13:EPA
WAG 163	JS	3:20PM	10/13	B9, PIT	M	2/C/1	PCB					10/13:EPA
WAG 164	JP	5:30PM	10/13	B9, TU, H2O CONFIRM.	L	1	PCB	<1 UG/L	<1 PPB	IN/S		10/13:COOPER PER F. SIMONIC
WAG 165	JP	7:30PM	10/13	B9, TU, H2O CONFIRM.	L	1	PCB	<1 UG/L	<1 PPB	IN/S		10/13:COOPER PER F. SIMONIC
WAG 166	JP	7:00PM	10/16	B9, TU, CONF	L	1	PCB	<1 UG/L	<1 PPB	IN/S		10/17:COOPER PER F. SIMONIC
WAG 167	JP	11:00PM	10/16	B9, TU, CONF	L	1	PCB	<1 UG/L	<1 PPB	IN/S		10/17:COOPER PER F. SIMONIC
WAG 168	JS	6:15 PM	10/17	B9, TU,	L	1	PCB	<1 UG/L	<1 PPB	IN/S		10/18:COOPER PER F. SIMONIC
WAG 169	JS	12:15AM	10/17	B9, TU,	L	1	PCB	<1 UG/L	<1 PPB	IN/S		10/18:COOPER PER F. SIMONIC
WAG 170	JP	3:45PM	10/18	B9, TU, H2O CONFIRM.	L	1	PCB	<1 UG/L	<1 PPB	IN/S		10/19:COOPER PER F. SIMONIC
WAG 171	JP	8:40PM	10/18	B9, TU, H2O CONFIRM.	L	1	PCB	<1 UG/L	<1 PPB	IN/S		10/19:COOPER PER F. SIMONIC
WAG 172	JA	10:15PM	10/18	B9, TU, H2O CONFIRM.	L	1	PCB	<1 UG/L	<1 PPB	IN/S		10/20:COOPER PER F. SIMONIC
WAG 173	JA	2:00AM	10/20	B9, TU, H2O CONFIRM.	L	1	PCB	<1 UG/L	<1 PPB	IN/S		10/20:COOPER PER F. SIMONIC
WAG 174	JP	7:57PM	10/20	B9, TU, H2O	L	1	PCB	<1 UG/L	<1 PPB	IN/S		10/21:COOPER PER F. SIMONIC
WAG 175	JP	12:20AM	10/21	B9, TU, H2O	L	1	PCB	<1 UG/L	<1 PPB	IN/S		10/21:COOPER PER F. SIMONIC
WAG 176	JP	7:00PM	10/21	B9, TU, H2O	L	1	PCB	<1 UG/L	<1 PPB	IN/S		10/22:COOPER PER F. SIMONIC
WAG 177	JP	10:00PM	10/21	B9, TU, H2O	L	1	PCB	<1 UG/L	<1 PPB	IN/S		10/22:COOPER PER F. SIMONIC
WAG 178	JP	7:00PM	10/22	B9, TU, H2O	L	1	PCB	<1 UG/L	<1 PPB	IN/S		10/23:COOPER PER F. SIMONIC
WAG 179	JP	11:00AM	10/22	B9, TU, H2O	L	1	PCB	<1 UG/L	<1 PPB	IN/S		10/23:COOPER PER F. SIMONIC
WAG 180	JS	5:35PM	10/23	B9, TU, H2O	L	1	PCB	<1 UG/L	<1 PPB	IN/S		10/24:COOPER PER F. SIMONIC

[illegible]

REPORT OF REMEDIAL INVESTIGATION WITH
RECOMMENDATIONS AT THE
WAGNER ELECTRIC FACILITY, WELLSTON, MISSOURI

Prepared for:

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November, 1985

In the railroad trench area, the grey clay unit is overlain by loose rock fragments characteristic of the old railroad grade. In borehole B-6 the material encountered was predominantly fill material deposited after excavation and removal of underground pipes from the trench. Fill material was also found in borehole B-9, but penetration was deep enough to encounter the clay unit. Again, more detailed descriptions of the test borings can be found in Appendix A.

3.3.1(b) Former Tank Pad and Sewer Hole Sampling. Two chip samples were taken from the concrete pad on which cylindrical storage tanks formerly stood. One sample was taken from the area where the PCB oil storage tank had reportedly been and one was taken due north of this sample at the opposite end of the pad. These samples were obtained by pulverizing the concrete surface with a sledge hammer and depositing the cement dust into a laboratory bottle with a decontaminated stainless steel spoon. These samples were analyzed for PCB concentration.

One sample was taken of the water flowing through a sewer pipe that runs beneath Area 1. This sample was collected by lowering a sample vessel through a manhole to the small stream of water in the pipe. This sample was also sent to the laboratory for PCB analysis.

3.3.2 Area 2: Building No. 9/9A This was the area in which large transformers were constructed and filled with oil. Previous sampling performed by Sitex Corp. Consulting Engineers and Scientists identified PCB contamination on the floors of various sections of this building. The highest concentrations of PCBs (84,600 ppm) were located in Building No. 9A, a small room on the eastern wall of Building No. 9, in which PCB laden oil was pumped from a holding tank located outside of the building into the individual transformers.

The main part of the building was divided into eight equally sized sections as identified on Figure 3-3, from each of which one composite

FIGURE 3-3

LOCATION OF SAMPLES: BUILDING #9/9A

To be inserted at
a later time.

sample was collected. An additional composite sample was prepared from discolored areas of the floor along the northern end of the building and along the railroad tracks. A large pit in which transformers were mechanically manipulated was also sampled, as was standing liquid found in a tunnel that runs east to west under the building.

All of the floors in Building No. 9/9A were cement which dictated the following sampling technique. From each of the eight sections of the floor, six samples were collected and composited in a decontaminated stainless steel mixing bowl. Individual samples were obtained by pulverizing the floor surface at each location using a sledge hammer, scooping the cement powder with a decontaminated stainless steel spoon and homogenizing the sample in the mixing bowl. Equal amounts of powder were added from each of the discrete locations comprising the composite sample.

The sample from the pit was obtained by scraping loose sediment deposits from the floor of the pit.

Two cement cores were taken in Room 9A from the most discolored areas of the floor. These two inch diameter cores were visually inspected to observe depth of penetration of oil discoloration. Core No. 1 was twelve inches in length while Core No. 2 was 10 inches long. The bottom two inch segment of each core was removed and composited separately from the remaining body of the core, (core sections were pulverized prior to analysis) to determine if PCB contamination had reached the bottom of the floor of the building, and potentially escaped into the underlying soil.

The sample of oil taken from the tunnel was obtained by dipping a vessel under the liquid surface and decanting the aqueous phase. The purpose of using this technique was to determine if the oil phase contained PCB. The sample, however, is not representative of the entire liquid content of the tunnel.

The results of the laboratory analyses conducted on the samples collected from Area 1 are summarized in Tables 4-2 and 4-3. The PCB type detected was Aroclor 1260. Figure 4-2 provides a cross-sectional illustration of PCB concentrations with respect to depth as indicated by the test boring analyses. The profile provided by these borings, which will be discussed more fully in the Summary and Conclusions section of the report, seems to indicate a random distribution of localized areas of contamination rather than uniform migration of contamination. The presence of pockets of PCB contamination may be the result of proximity to oil/water separator chambers, pipe tunnels or storage tanks which may have been sites of spillage or leakage during the operational life of the facility.

4.2.2 Area 2: Building No. 9/9A Each of the 9 composite cement dust samples, the sediment sample taken from the pit and the oil sample collected from the tunnel were analyzed for PCB concentration. The location from which each sample was taken is indicated on Figure 3-3, and the analytical results are presented in Table 4-4. The PCB type detected was Aroclor 1260.

The upper and lower sections of the concrete cores collected in Building 9A were analyzed for PCB concentration. The results of these analyses are also provided in Table 4-2. A scrape sample of oily residue from the surface of the most discolored portions of Building No. 9A contained 240,000 ppm of PCBs (Aroclor 1260). Core 1 from Building No. 9A exhibited concentrations of 12,660 ppm in the composite of the discolored upper section and 290 ppm in the composite of the lower section. This core was 12 inches long and the lower sample was from the bottom two inches. Core 2 from Building No. 9A contained 20 ppm of PCBs in the upper section and 32 ppm in the lower section. This core was 10 inches long and the lower sample was from the bottom two inches.

PCB concentrations at the surface of the concrete floor in the main portion of Building No. 9 range from 61 pm to 1300 ppm with an average concentration in the room of 346 ppm. The type of PCB detected was Aroclor 1260.

TABLE 4-4

Results of Sampling Analyses in Building No. 9/9A (Area 2)

<u>Sample</u>	<u>PCB Concentration</u> <u>(ppm)</u>
9-1	130
9-2	61
9-3	220 260
9-4	330 450
9-5	370
9-6	1300 3800
9-7	400
9-8	240 330
9-RR	63 96
9-PIT	90
9-TUNNEL (Liquid)	190
9A-CORE 2 - UPPER	20
9A-CORE 2 - LOWER	32
9A-CORE 1 - UPPER	12,660
9A-CORE 1 - LOWER	290
SCRAPE SAMPLE FROM 9-A	240,000

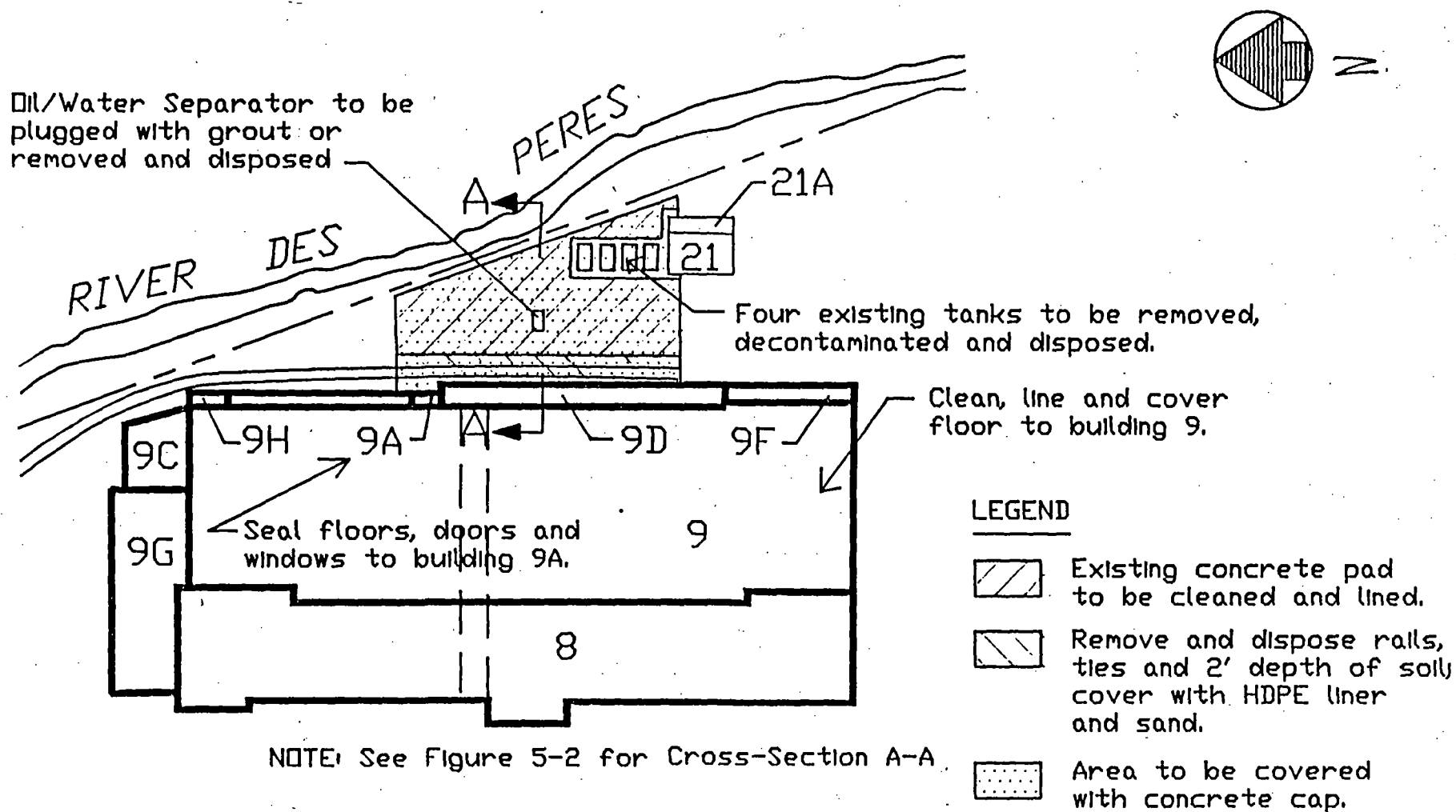


FIGURE 5-1:
REMEDIAL WORK PLAN FOR AREAS I AND II

Bldg 9 - Area 2

East Wall - WAG 51-55

51 - 100 ppm	} Cooper 8/10 memo
52 - 280 ppm	
53 - 24 ppm	
54 - 48 ppm	
55 - 400 ppm	

Bldg 25

1st Floor	WAG 107	25-1-3	35 ug/100 cm ²
	400 ug/100 cm ²	WAG 108	25-1-2 184, 185, 186, 187
	8.16 ug	WAG 109	25-1-1

184	3 ug/l
185	6 ug/l
186	4 ug/l
187	4 ug/l