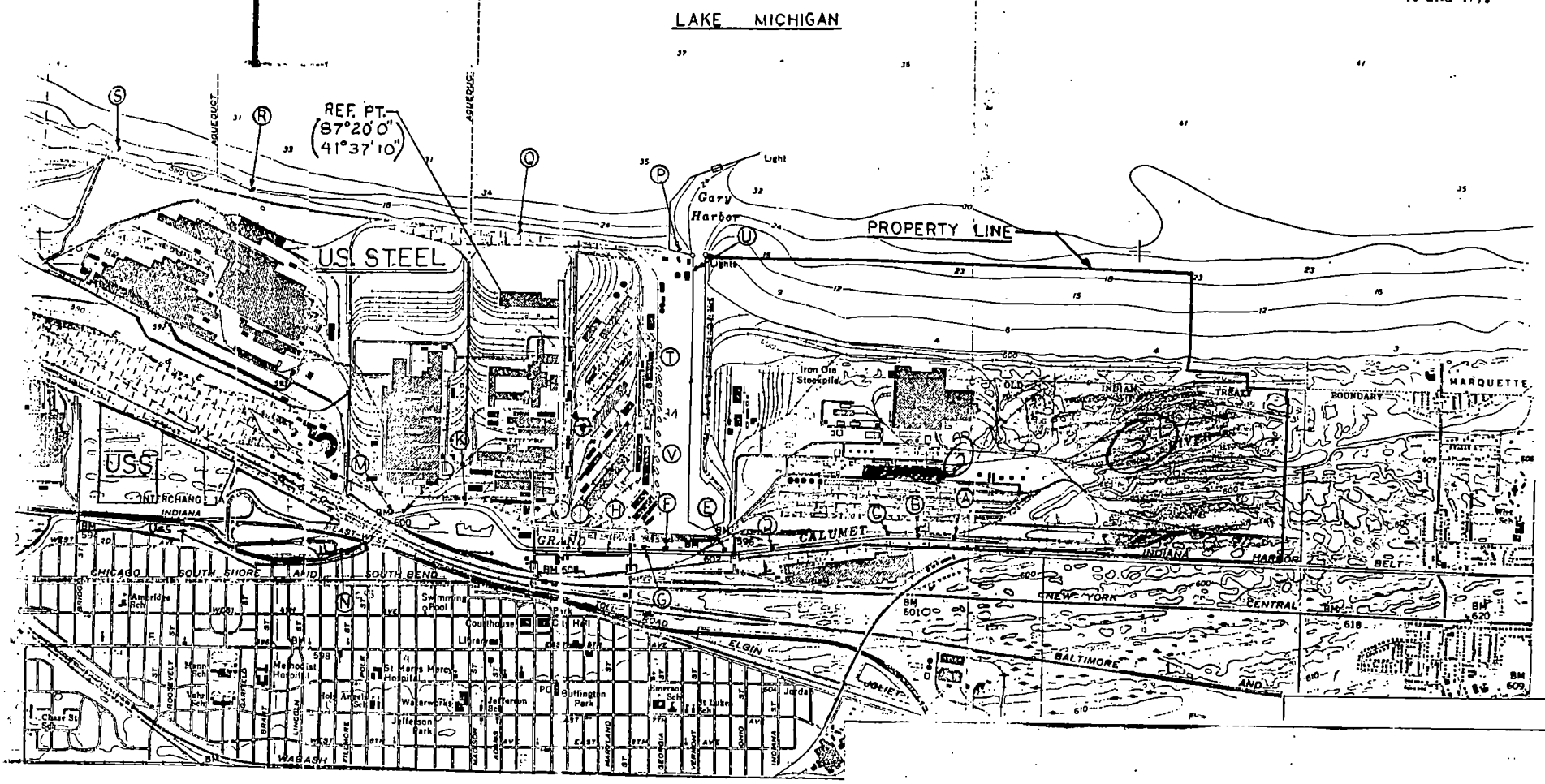
US EPA RECORDS CENTER REGION 5
522923
IN-0218-11
R05-8410-024

Notes:
1. For location of haza
Facilities, (see Draw
46 and 47).



Attachment I

Location of Discharge (Outfall key to attached map)

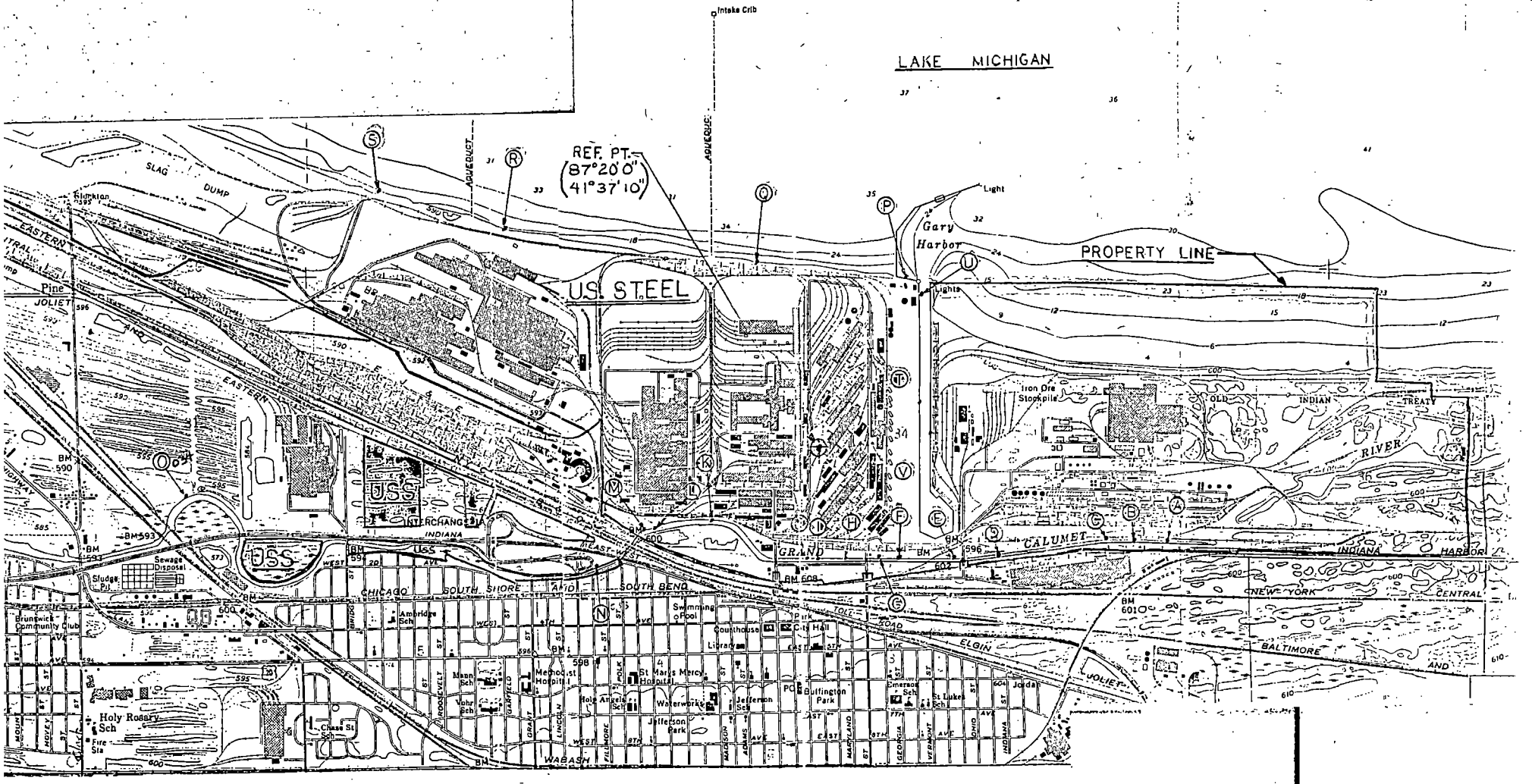
Designation	Outfall
A	002 (GW-1)
B	005 (GW-1A)
C	007 (GW-2)
D	010 (GW-3)
E	015 (GW-4)
F	017 (GW-5)
G	018 (GW-6)
H	019 (GW-7)
I	020 (GW-7A)
J	021 (GW-9)
K	028 (GW-10A)
L	030 (GW-11A)
M	032 (GW-13)
N	033 (ST-14)
O	034 (ST-17)
P	035 (GW-L1)
Q	036 (GW-L1A)
R	037 (ST-L5)
S	039 (ST-L6)
T	No. 4 Pump House — 002,007,010,015
U	No. 2 Pump House — 035, 036
V	No. 1 Pump House — 017,018,019,020,021,028,030+032
W	Central Pump Station
X	Lakeside Pump House — 033,034,038,039

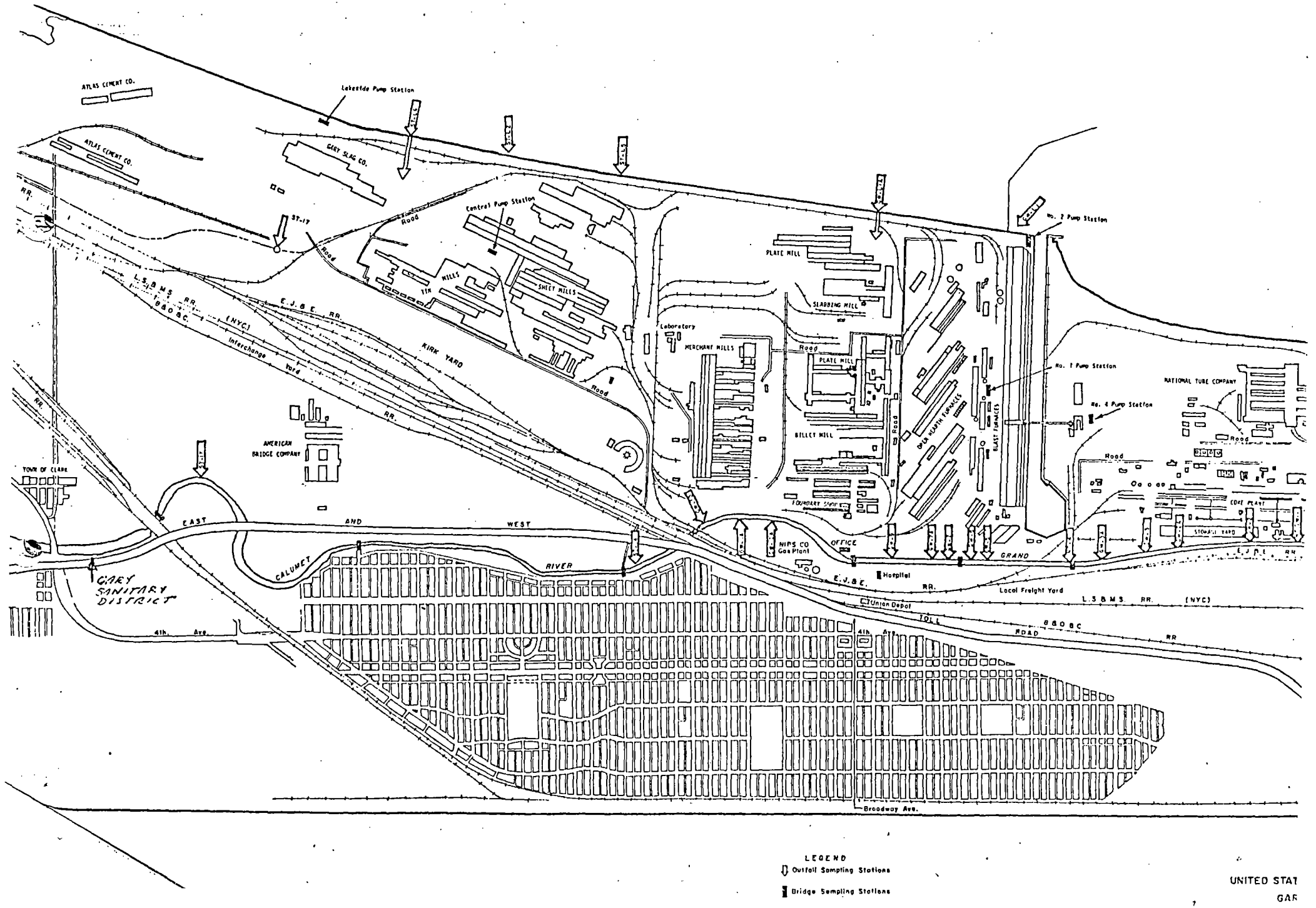
all other outfalls are to the Grand Calumet River

+038 ⇒ Outfalls to Lake Michigan

Associated outfalls

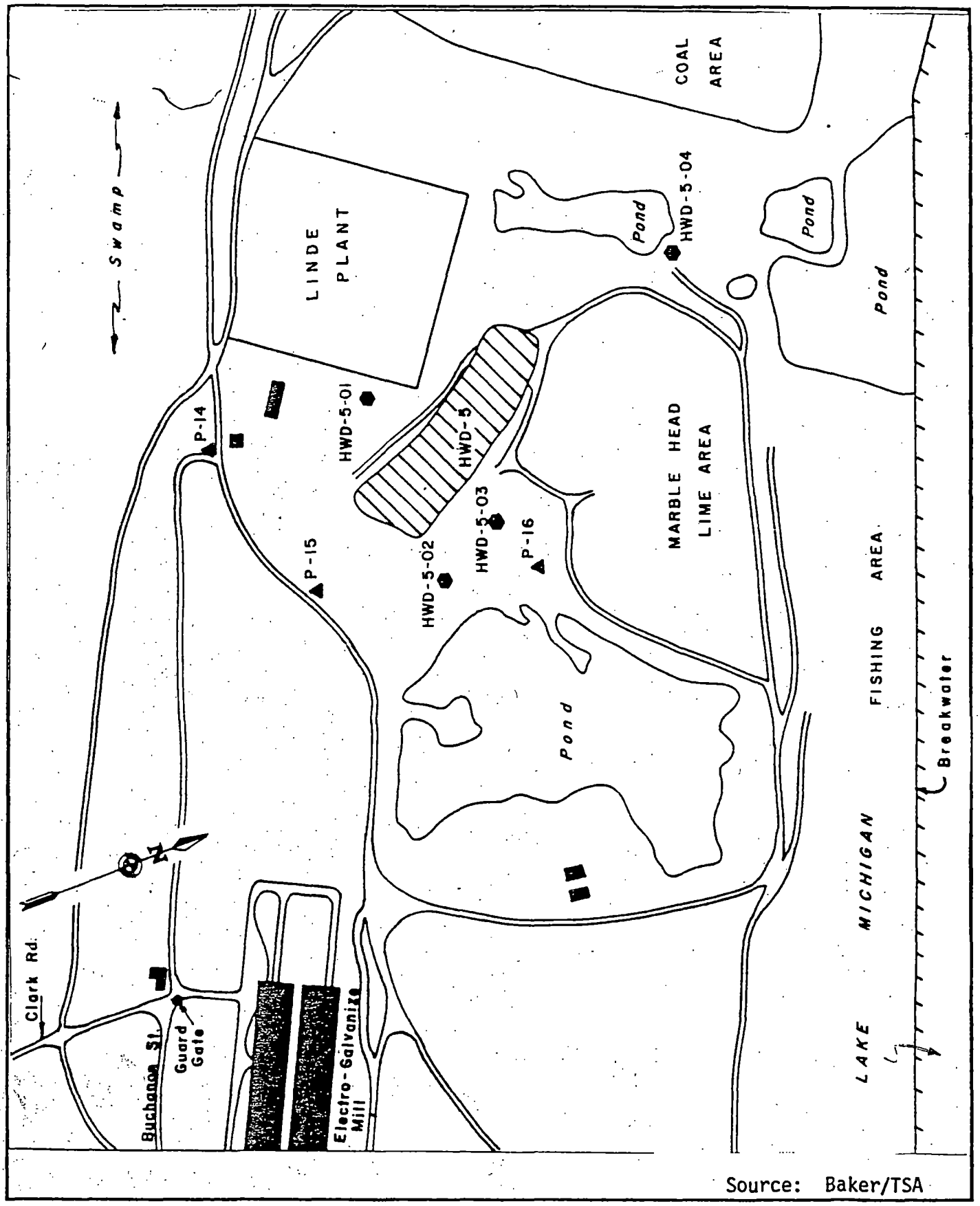
intake water points


LAKE MICHIGAN
Intake Crib
REF. PT.
(87°20'0"
41°37'10")
AQUEDUCT
AQUEDUCT
SLAG
DUMP
Kinkton
EASTERN
Pine
JOLIET
AND
EASTERN
U.S. STEEL
Light
Gary
Harbor
PROPERTY LINE
Lights
Iron Ore
Stockpile
OLD
INDIAN
TREATY
RIVER
USS
USS
USS
INTERCHANGE
INDIANA
Sewage
Disposal
Sludge
Pit
CHICAGO
SOUTH SHORE
AND
SOUTH BEND
GRAND
CALUMET
INDIANA
HARBOR
NEW YORK
CENTRAL
BALTIMORE
AND
ELGIN
JOLIET
Brunswick
Community Club
Holy Rosary
Sch
Fire
Sta
Chase St
Sch
Amoridge
Sch
Swimming
Pool
Courthouse
Library
City Hall
Mann
Sch
Vohr
Sch
Methodist
Hospital
Holy Angels
Sch
St Mary's Mercy
Hospital
Waterworks
Jefferson
Sch
Jefferson
Park
Buffington
Park
Emerson
Sch
St Luke's
Sch
Jordan
WABASH



UNITED STAT

GAR



Source: Baker/TSA

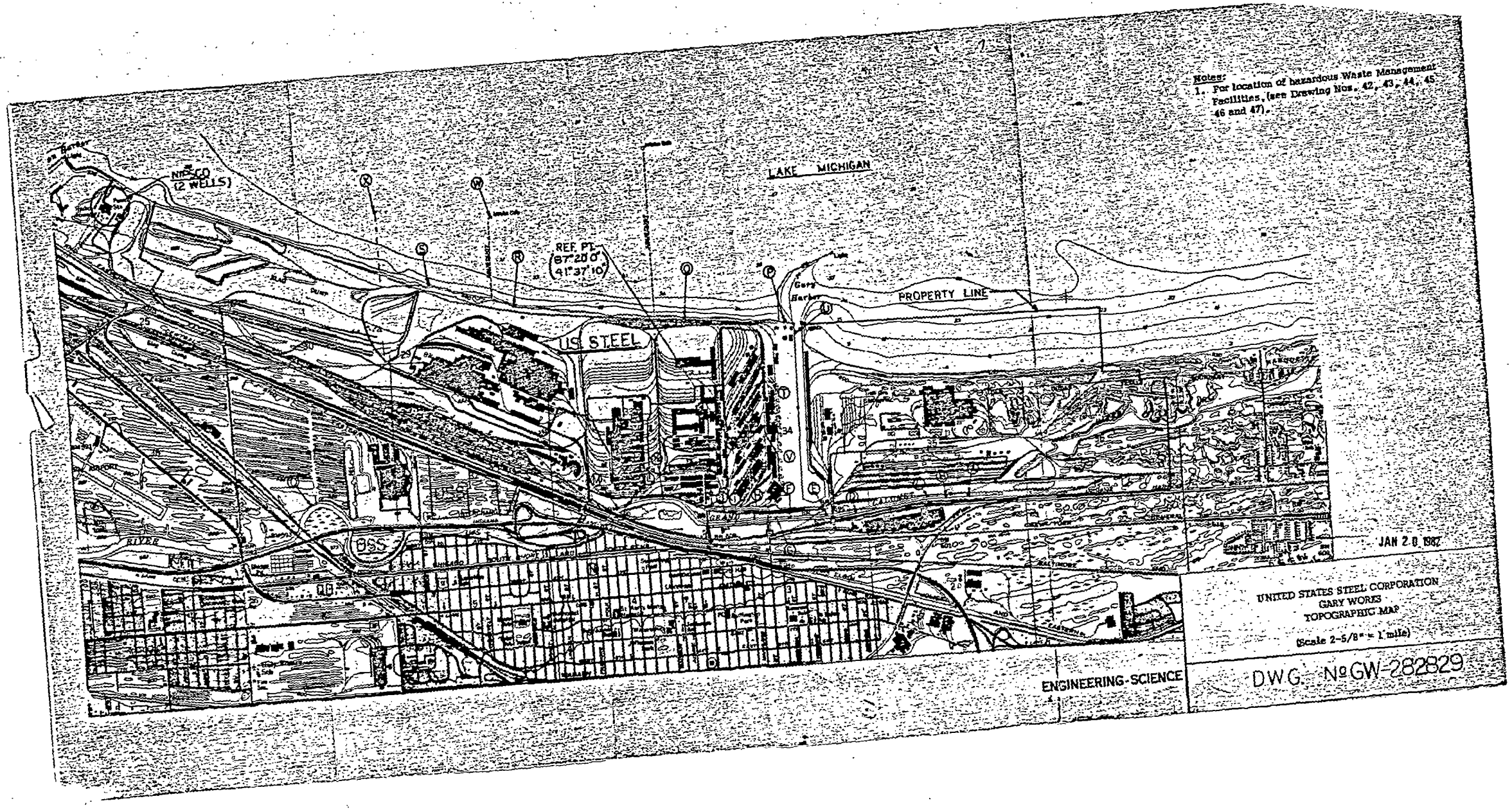
Harding Lawson Associates
Engineers, Geologists & Geophysicists

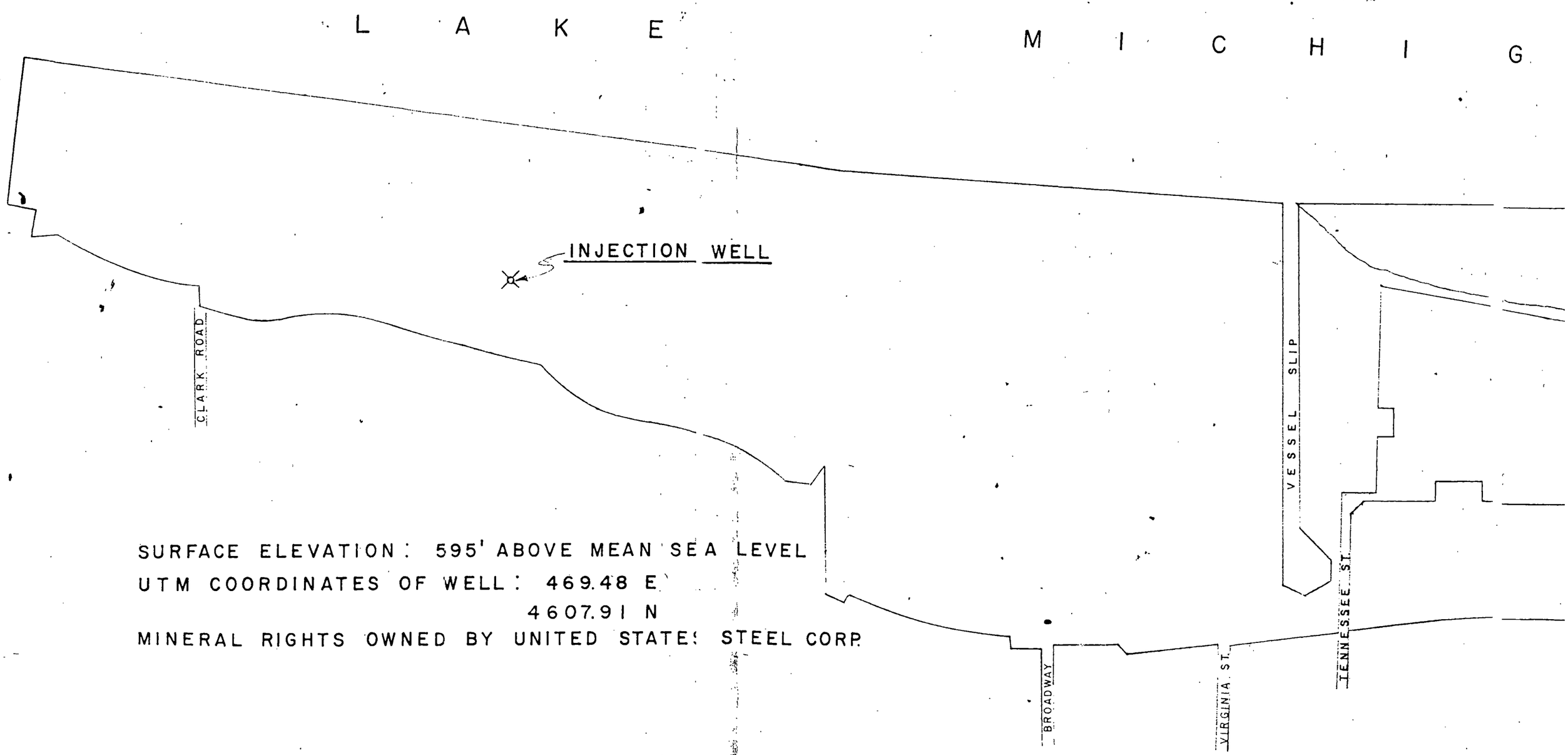
Well/Piezometer Locations, HWD-5
United States Steel Corporation
Gary, Indiana
May, 1984

Scale: 1"=520'

PLATE 3

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED	DATE
Source	6273,042.12	ERW	10-13-84		


Notes:
1. For location of hazardous Waste Management Facilities, (see Drawing Nos. 42, 43, 44, 45, 46 and 47).
LAKE MICHIGAN
NIPSCO (2 WELLS)
REF. PT. (87°20'0" 41°37'10")
PROPERTY LINE
US STEEL
USS
RIVER
JAN 20 1987
UNITED STATES STEEL CORPORATION
GARY WORKS
TOPOGRAPHIC MAP
(Scale 2-5/8" = 1 mile)
ENGINEERING-SCIENCE
DWG. №GW-282829



SURFACE ELEVATION: 595' ABOVE MEAN SEA LEVEL
UTM COORDINATES OF WELL: 469.48 E
4607.91 N
MINERAL RIGHTS OWNED BY UNITED STATES STEEL CORP.

SCALE: 1" = APPROX. 1400'

HWS HAZARDOUS WASTE STORAGE
HWT HAZARDOUS WASTE TREATMENT
HAZARDOUS WASTE FACILITY
ABANDONED HAZARDOUS WASTE FACILITY
USS PROPERTY LINE
PLANT OUTFALLS AND INTAKES
GROUND WATER MONITORING WELL LOCATION

NOTES

1) K&A STEEL IS LOCATED ON PROPERTY LEASED FROM USSC.

SEE DRAWING #276874

MATCHLINE DWG NO GW-2

HWT-2-04
HWT-2-01
HWT-13-02
HWT-13-03
HWT-13-04
HWT-13-01
HWT-14-02
HWT-14-01

NO1 EGL BASEMENT SUMP (HWS-4)

NEUTRALIZED ACID LAGOONS (HWT-2)

TIMP SLUDGE DRYING BEDS (HWT-13)

TERMINAL TREATMENT PLANT (HWT-6) (HWS-25)

DEEP WELL (HWD-5)

K&A STEEL (SEE NOTE 1)

WASTE ACID PLANT (HWT-5)

CHROME PLANT (HWT-7)

TI PUMP STATION (HWS-15)

FINAL OIL SEPARATORS SLUDGE DRYING BED (HWT-14)

FINAL OIL SEPARATOR (HWT-10)

ST-17 OIL HOLDING TANKS (HWS-26)

OUTFALL 004

GROUND WATER MONITORING WELL DATA

Designation	Top of 8" Protective Casing Elevation (Feet)	Bottom of Well Elevation (Feet)	Coordinates of Well Centerline (Feet)
HWT-2-01	32.72	-36.92	S-2,219.64 W-6,483.15
HWT-2-02	35.65	-38.00	S-1,352.99 W-7,169.75
HWT-2-03	38.37	-35.70	S-7,171.66 W-6,780.59
HWT-2-04	38.38	-41.38	S-1,168.37 W-6,425.17
HWT-2-05	36.87	-39.40	S- 962.67 W-8,870.35
HWT-2-06	38.79	-29.30	S 915.16 W-5,809.28
HWT-2-07	35.88	-38.00	S-2,800.15 W-5,638.77
HWT-13-01	35.83	-37.10	S-1,563.03 W-6,750.46
HWT-13-02	35.68	-38.88	S-7,030.81 W-5,182.15
HWT-13-03	35.52	-38.60	S- 368.28 W-6,752.27
HWT-13-04	35.46	-40.70	S- 965.58 W-6,626.67
HWT-14-01	38.89	-36.90	S-3,093.38 W-5,642.33
HWT-14-02	38.88	-38.28	S-2,573.58 W-5,541.35
HWT-14-03	33.96	-35.38	S-2,573.33 W-5,359.78
HWT-14-04	32.58	-38.88	S-2,552.38 W-5,297.35

NOV 16 1981

ENGINEERING-SCIENCE

REVISIONS					MARK	REQ'D	DESCRIPTION	MATERIAL	REMARKS
REV	DESCRIPTION	DATE	BY	CH'K					
1							BILL OF MATERIAL		
2							PLANT GENERAL		
3							SOUND WASTE STUDY 1980		
4							HAZARDOUS WASTE PROGRAM		
5							LOCATION PLAN		
6							FORMERLY ENGINEERING-SCIENCE DWG #42		
7									
8									
9									
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11									
12									
13									
14									
15									
16									

U.S.S. CORP. STD. FINISHES BASED ON GEN. ELECTRIC ROUGHNESS SPECIMENS

SYMBOL	CLASS	AVERAGE ROUGHNESS IN MICROINCHES
	SUPER FINISH	4
	POLISH	8
	GRIND	16
	SMOOTH	32
	FINE	63
	SEMI-FINE	125
	MEDIUM	250
	SEMI-ROUGH	500
	ROUGH	1000
	CLEAR UP	2000

UNITED STATES STEEL CORPORATION
GARY WORKS
SAFETY USS FIRST

DRAWN BY © DATE 3-10-80 SCALE 1"=400'
CHECKED BY _____ DATE _____
IN CHARGE OF

GW-282825

MICROFILM SCALE
3" ON ORIGINAL
0 EIGHTHS 1 2 3
TENTHS

NOTES:
1) FOR LEGEND SEE DWG Nº GW-282825.
2) THERE ARE TWO SEPARATE GRID SYSTEM AT THE GARY WORKS ONE FOR THE EAST SIDE AND ONE FOR THE WEST SIDE.

MICROFILM SCALE
3" ON ORIGINAL
0 TENTHS 1 2 3

ENGINEERING-SCIENCE JAN 26 1982

REVISIONS					MARK	REQ'D	DESCRIPTION	MATERIAL	REMARKS
DEV	DESCRIPTION	DATE	BY	CHK			BILL OF MATERIAL		
1							PLANT GENERAL		
2							SOUND WASTE STUDY 1980		
3							HAZARDOUS WASTE MANAGEMENT FACILITIES		
4							LOCATION PLAN		
5							FORMERLY ENGINEERING-SCIENCE DWG #43		
6									
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14									
15									
16									

SYMBOL	CLASS	SIZE OF ABRASIVE PARTICLES
	SUPER FINISH	4
	POLISH	8
	GRINDING	16
	SMOOTH	32
	FINE	63
	SEMI-FINE	125
	MEDIUM	250
	SEMI-ROUGH	500
	ROUGH	1000
	CLEAN UP	2000

UNITED STATES STEEL CORPORATION
GARY WORKS
SAFETY FIRST

DRAWN BY © DATE 9-10-80 SCALE 1" = 400'
CHECKED BY DATE
IN CHARGE OF

GW-282826

NOTES

1) FOR LEGEND SEE DWG. Nº GW-282825.
2) FOR LOCATION OF HWD-1 AND HWD-2 SEE DWG Nº GW-276873.
3) FOR LOCATION OF GROUND-WATER MONITORING WELLS SEE DWG. GW-276873

ENGINEERING-SCIENCE

JAN 20 1982

REVISIONS				
SYM	DESCRIPTION	DATE	BY	CH'K
1				
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13				
14				
15				
16				

MARK	REQ'D	DESCRIPTION	MATERIAL	REMARKS
		BILL OF MATERIAL		
		PLANT GENERAL		
		SOUND WASTE STUDY 1980		
		HAZARDOUS WASTE MANAGEMENT FACILITIES		
		LOCATION PLAN		
		FORMERLY ENGINEERING-SCIENCE DWG # 44		

U.S.S. CORP. STD. FINISHES BASED ON GEN. ELECTRIC ROUGHNESS SPECIMENS

SYMBOL	CLASS	ARITHMETIC AVERAGE OF ROUGHNESS IN MICROINCHES AT PRECISION LENGTH
▽	SUPER FINISH	4
▽	POLISH	8
▽	GROUND	16
▽	SMOOTH	32
▽	FINE	63
▽	SEMI-FINE	125
▽	MEDIUM	250
▽	SEMI-ROUGH	500
▽	ROUGH	1000
▽	CLEAR UP	2000

UNITED STATES STEEL CORPORATION
GARY WORKS
SAFETY USS FIRST

DRAWN BY C DATE 9-10-80 SCALE 1" = 400'
CHECKED BY DATE
IN CHARGE OF

GW-282827

MICROFILM SCALE
3" ON ORIGINAL
0 EIGHTHS 1 2 3
TENTHS

NOTES:

1. FOR LEGEND SEE DWG Nº GW-282825.

GROUND-WATER MONITORING WELL LOCATION

GROUND-WATER MONITORING WELL DATA

Designation	Top of 6" Protective Casing Elevation (Feet)	Bottom of Well Elevation (Feet)	Coordinates of Well Centerline (Feet)
HWD-2-01	22.62	[illegible].35	S-1,487.36 E-6,294.55
HWD-2-02	46.62	[illegible].35	S-1,158.33 E-7,798.88
HWD-2-03	47.63	[illegible].47	S-1,055.60 E-8,091.30
HWD-2-04	47.63	[illegible].81	S-1,003.81 E-8,219.81

NOV 16 1981

REV	REVISIONS DESCRIPTION	DATE	BY	CH'K
1				
2				
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10				
11				
12				
13				
14				
15				
16				

MARK	REQ'D	DESCRIPTION	MATERIAL	REMARKS
		BILL OF MATERIAL		

U.S.S. CORP STD. FINISHES BASED ON GEN. ELECTRIC ROUGHNESS SPECIMENS

SYMBOL	CLASS	RMS AVG. OF ROUGHNESS PEAKS & VALLEYS
	SUPER FINISH	4
	POLISH	8
	GRIND-HP	16
	SMOOTH	32
	FINE	63
	SEMI-FINE	125
	MEDIUM	250
	SEMI-ROUGH	500
	ROUGH	1000
	CLEAR OF	2000

TUPPER LAKE SALT LAKE CITY

GENERAL FACILITY LOCATION PLAN

HAZARDOUS WASTE PROGRAM

UNITED STATES STEEL CORPORATION
GARY WORKS

SAFETY FIRST

DRAWN BY G DATE SCALE 1"=300'

CHECKED BY DATE

IN CHARGE OF

GW-276873

MICROFILM SCALE

3" ON ORIGINAL

0 EIGHTHS 1 2 3

TENTHS

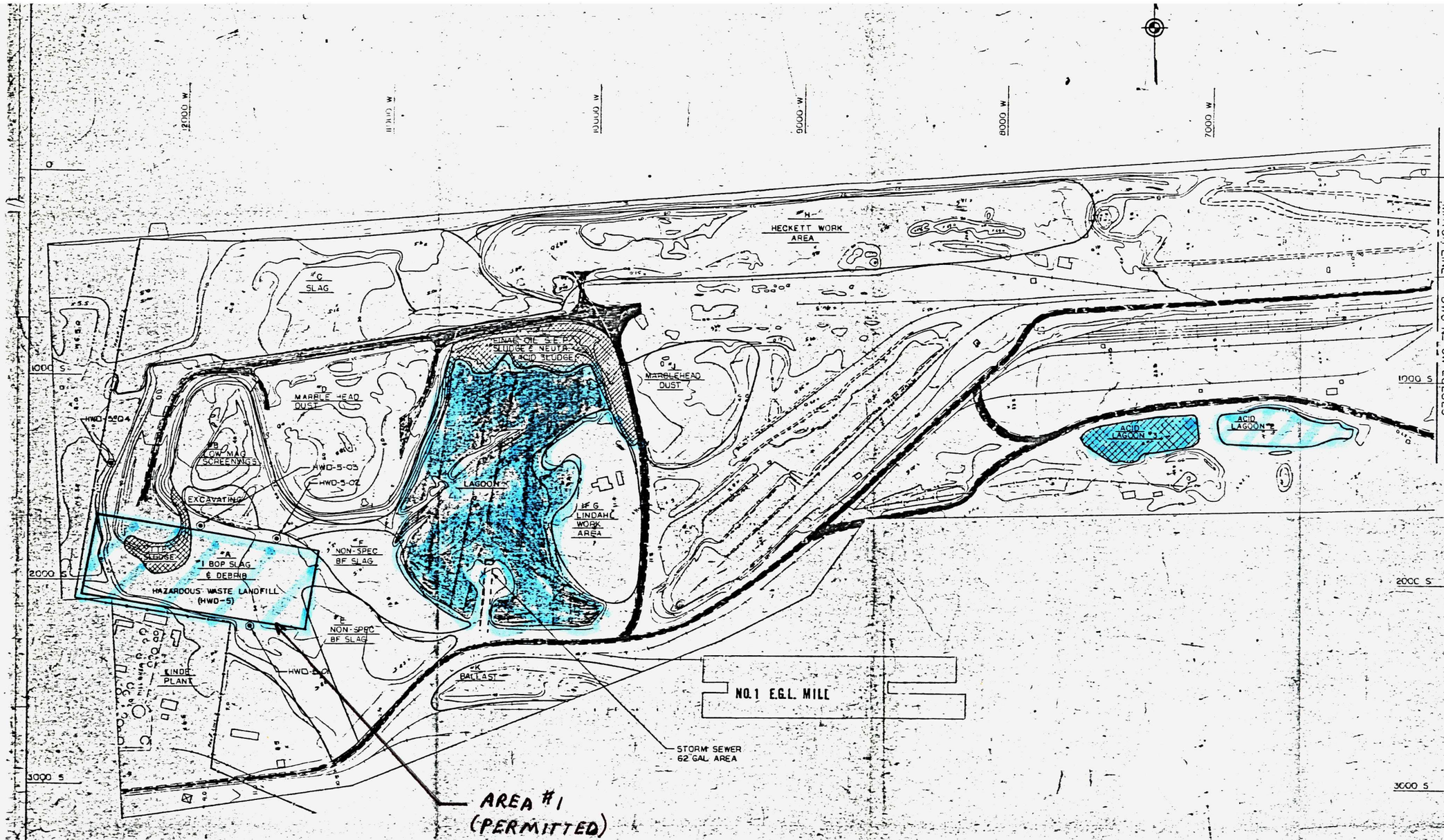
ENGINEERING-SCIENCE

NOTES:
1. FOR LEGEND SEE DWG Nº GW-282825.

⊙ GROUND-WATER MONITORING WELL LOCATION

GROUND-WATER MONITORING WELL DATA

Designation	Top of Protective Casing Elevation (Feet)	Bottom of Well Elevation (Feet)	Coordinates of Well Centerline (Feet)
HWD-5-01	18.34	-18.45	S- 2,585.08, W-11,829.78
HWD-5-02	18.38	-32.80	S- 2,197.05, W-11,287.57
HWD-5-03	17.38	-28.80	S- 2,817.02, W-11,441.32
HWD-5-04	15.32	-15.60	S- 1,416.37, W-12,533.60



NOV 16 1981

REVISIONS					MARK	REQ'D	DESCRIPTION	MATERIAL	REMARKS
REV.	DESCRIPTION	DATE	BY	CH'K					
1							BILL OF MATERIAL		
2							U.S.S. CORP. STD. FINISHES BASED ON 4000 ELECTRIC ROUGHNESS SPECIMENS		
3									
4							SYMBOL / CLASS / RMS OF ROUGHNESS SPECIMENS		
5									
6									
7							SUPER FINISH	4	
8							POLISH	8	
9							GRINDING	16	
10							SMOOTH	32	
11							FINE	63	
12							SEMI-FINE	125	
13							MEDIUM	250	
14							SEMI-ROUGH	500	
15							ROUGH	1000	
16							CLEAN UP	2000	

TOPOGRAPHIC : STOCKTON LANDFILL
GENERAL FACILITY LOCATION PLAN
HAZARDOUS WASTE PROGRAM
FORMERLY ENGINEERING SCIENCE DWG 46

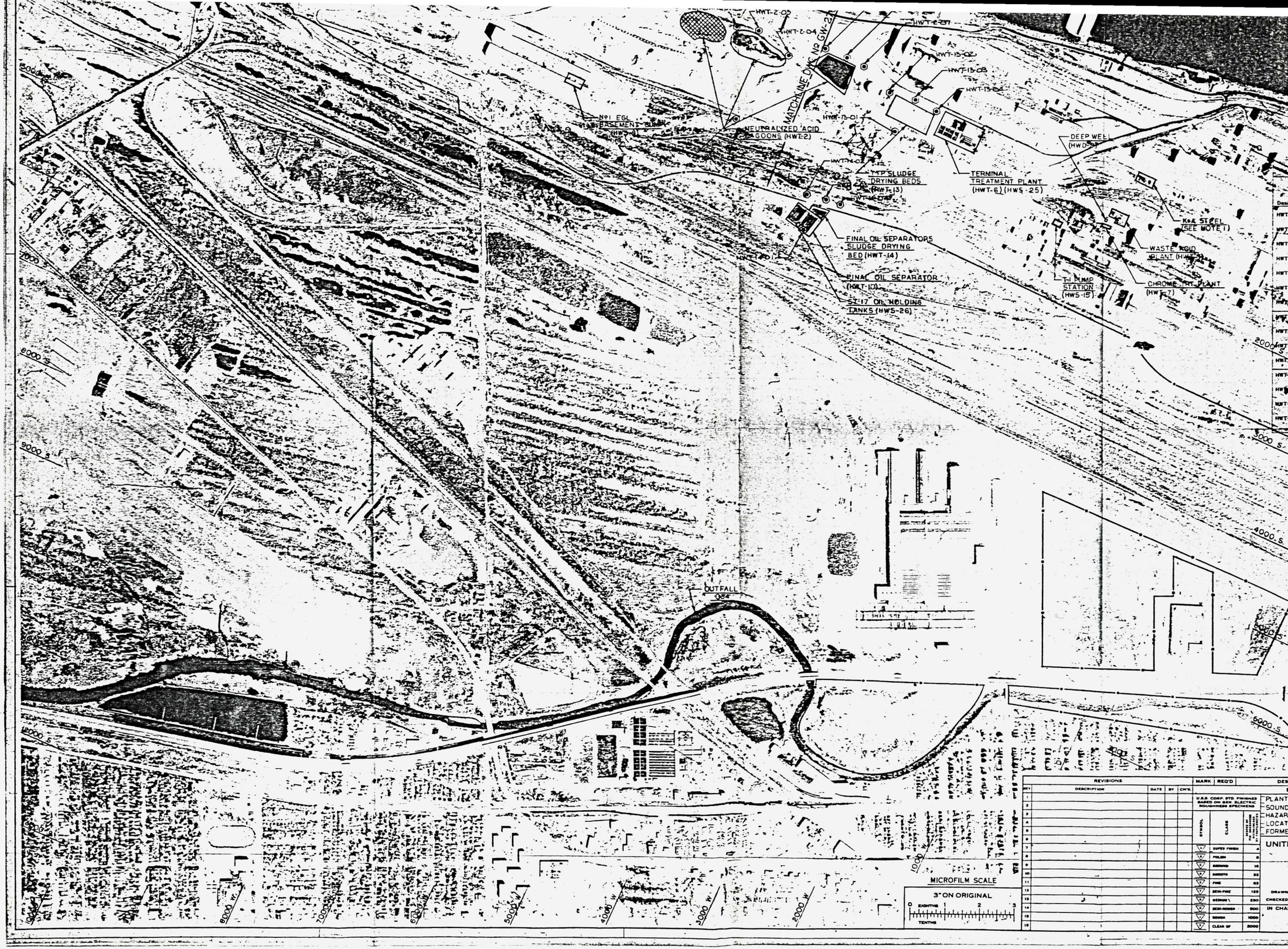
UNITED STATES STEEL CORPORATION
GARY WORKS
SAFETY USS FIRST

DRAWN BY © DATE 10-21-80 SCALE 1"=200'
CHECKED BY DATE
IN CHARGE OF

GW-276874

MICROFILM SCALE
3" ON ORIGINAL
0 EIGHTHS 1 2 3
1 TENTHS

ENGINEERING-SCIENCE



HWD HAZARDOUS WASTE DISPOSAL
HWS HAZARDOUS WASTE STORAGE
HWT HAZARDOUS WASTE TREATMENT
HAZARDOUS WASTE FACILITY
ABANDONED HAZARDOUS WASTE FACILITY
USS PROPERTY LINE
PLANT OUTFALLS AND INTAKES
GROUND WATER MONITORING WELL LOCATION

NOTES:

1) K&A STEEL IS LOCATED ON PROPERTY LEASED FROM USSC.

GROUND-WATER MONITORING WELL DATA

Designation	Top of 6" Protective Casing Elevation (Feet)	Bottom of Well Elevation (Feet)	Coordinates of Well Centerline (Feet)
HWT-2-01	17.73	-36.92	S-2,219.64 W-6,483.38
HWT-2-02	25.65	-38.00	S-1,352.00 W-7,169.78
HWT-2-03	28.37	-35.70	S-1,151.64 W-6,780.59
HWT-2-04	28.70	-41.30	S-1,168.37 W-6,425.17
HWT-2-05	26.07	-39.40	S- 962.67 W-8,870.35
HWT-2-06	26.19	-29.30	S- 915.15 W-5,089.28
HWT-2-07	25.04	-36.00	S-1,006.15 W-5,638.77
HWT-13-01	25.03	-37.10	S-1,561.03 W-4,750.46
HWT-13-02	25.60	-38.00	S-1,830.81 W-5,182.15
HWT-13-03	25.92	-38.60	S- 368.28 W-4,752.27
HWT-13-04	25.46	-38.70	S- 965.38 W-4,626.67
HWT-14-01	14.89	-36.90	S-2,892.38 W-5,442.33
HWT-14-02	14.08	-30.20	S-2,573.98 W-5,841.35
HWT-14-03	13.98	-35.30	S-2,573.33 W-5,398.70
HWT-14-04	12.92	-36.00	S-2,552.98 W-6,297.35

NOV 16 1981

ENGINEERING-SCIENCE

REVISIONS					MARK	REQ'D	DESCRIPTION	MATERIAL	REMARKS
REV	DESCRIPTION	DATE	BY	CH'K			BILL OF MATERIAL		
1							PLANT GENERAL		
2							SOUND WASTE STUDY 1980		
3							HAZARDOUS WASTE PROGRAM		
4							LOCATION PLAN		
5							FORMERLY ENGINEERING-SCIENCE DWG #42		
6									
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14									
15									
16									

U.S.S. CORP. STD. FINISHES BASED ON SEN ELECTRIC ROUGHNESS SPECIMENS

SYMBOL	CLASS	ROUGHNESS RMS (MICROINCHES) ARITHMETIC AVERAGE
	SUPER FINISH	4
	POLISH	8
	GROUND	16
	SMOOTH	32
	FINE	63
	SEMI-FINE	125
	MEDIUM	250
	SEMI-ROUGH	500
	ROUGH	1000
	CLEAN UP	2000

UNITED STATES STEEL CORPORATION
GARY WORKS

SAFETY USS FIRST

DRAWN BY © DATE 9-10-80 SCALE 1-400'
CHECKED BY DATE
IN CHARGE OF

GW-282825

1) FOR LEGEND SEE DWG Nº GW-282825.
2) THERE ARE TWO SEPARATE GRID SYSTEM AT THE GARY WORKS ONE FOR THE EAST SIDE AND ONE FOR THE WEST SIDE.

ENGINEERING-SCIENCE

JAN 20 1982

REVISIONS					MARK	REQ'D	DESCRIPTION	MATERIAL	REMARKS
REV	DESCRIPTION	DATE	BY	CHK					
1							BILL OF MATERIAL		
2							PLANT GENERAL		
3							SOUND WASTE STUDY 1980		
4							HAZARDOUS WASTE MANAGEMENT FACILITIES		
5							LOCATION PLAN		
6							FORMERLY ENGINEERING-SCIENCE DWG #43		
7									
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11									
12									
13									
14									
15									
16									

U.S.A. CORP. STD. FINISHES BASED ON BEN. ELECTRIC ROUGHNESS SPECIMENS

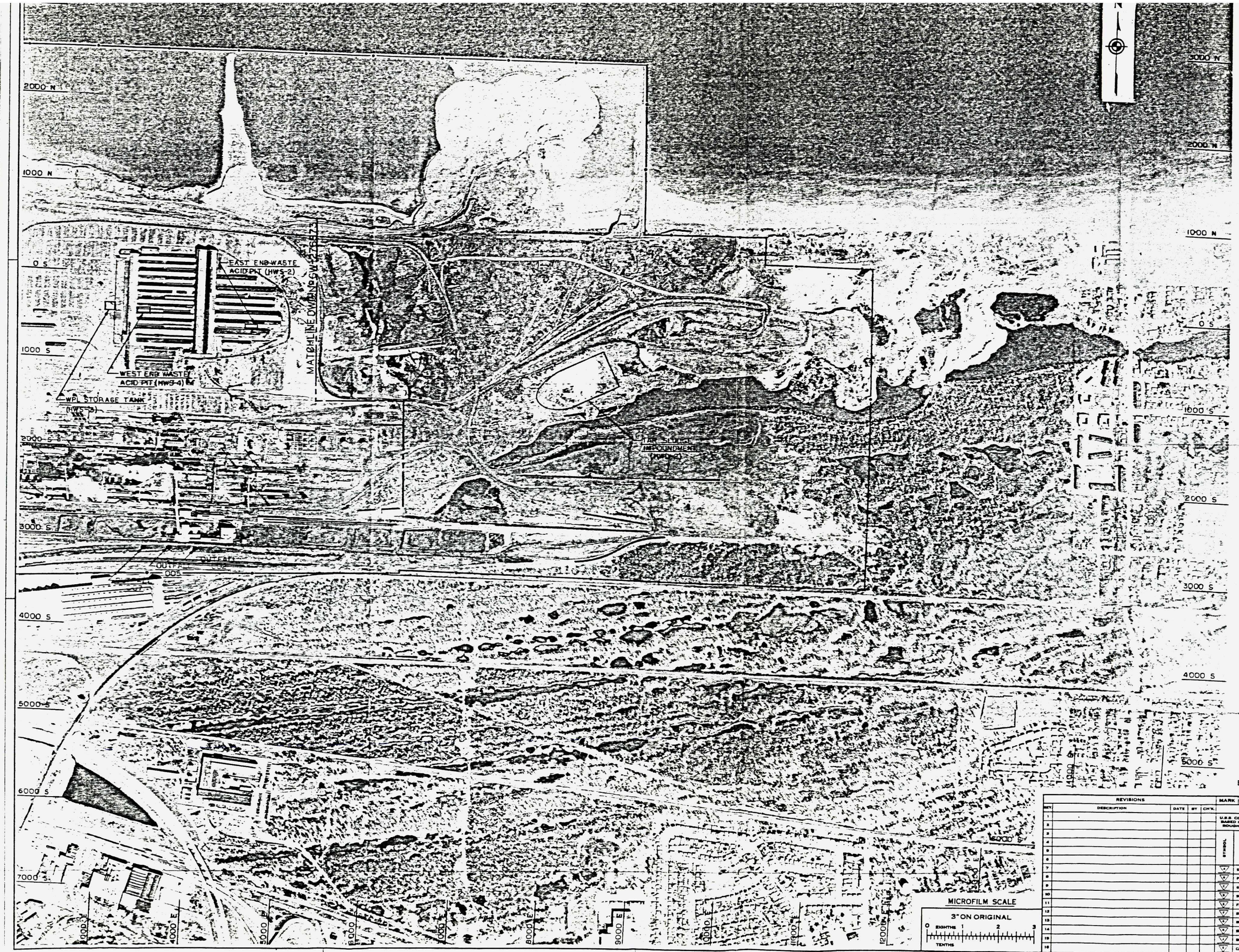
SYMBOL	CLASS	ROUGHNESS AVERAGE (MICROINCHES)
	SUPER FINISH	4
	POLISH	8
	GROUND	16
	SMOOTH	32
	FINE	63
	SEMI-FINE	125
	MEDIUM	250
	SEMI-ROUGH	500
	ROUGH	1000
	CLEAN UP	2000

UNITED STATES STEEL CORPORATION
GARY WORKS
SAFETY USS FIRST

DRAWN BY © DATE 9-10-80 SCALE 1"=400'
CHECKED BY DATE
IN CHARGE OF

GW-282826

MICROFILM SCALE
3" ON ORIGINAL
EIGHTHS 1 2 3
TENTHS



NOTES

1) FOR LEGEND SEE DWG. Nº GW-282825.
2) FOR LOCATION OF HWD-1 AND HWD-2 SEE DWG Nº GW-276873.
3) FOR LOCATION OF GROUND-WATER MONITORING WELLS SEE DWG. GW-276873

ENGINEERING-SCIENCE

JAN 20 1982

REVISIONS				
REV	DESCRIPTION	DATE	BY	CH'K
1				
2				
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16				

U.S.S. CORP. STD FINISHES BASED ON GEN. ELECTRIC ROUGHNESS SPECIMENS

SYMBOL	CLASS	UNITS OF PIN-SCRATCH DEPTH IN 10 THOUSANDTHS
	SUPER FINISH	4
	POLISH	8
	GROUND	16
	SMOOTH	32
	FINE	63
	SEMI-FINE	125
	MEDIUM	250
	SEMI-ROUGH	500
	ROUGH	1000
	CLEAN UP	2000

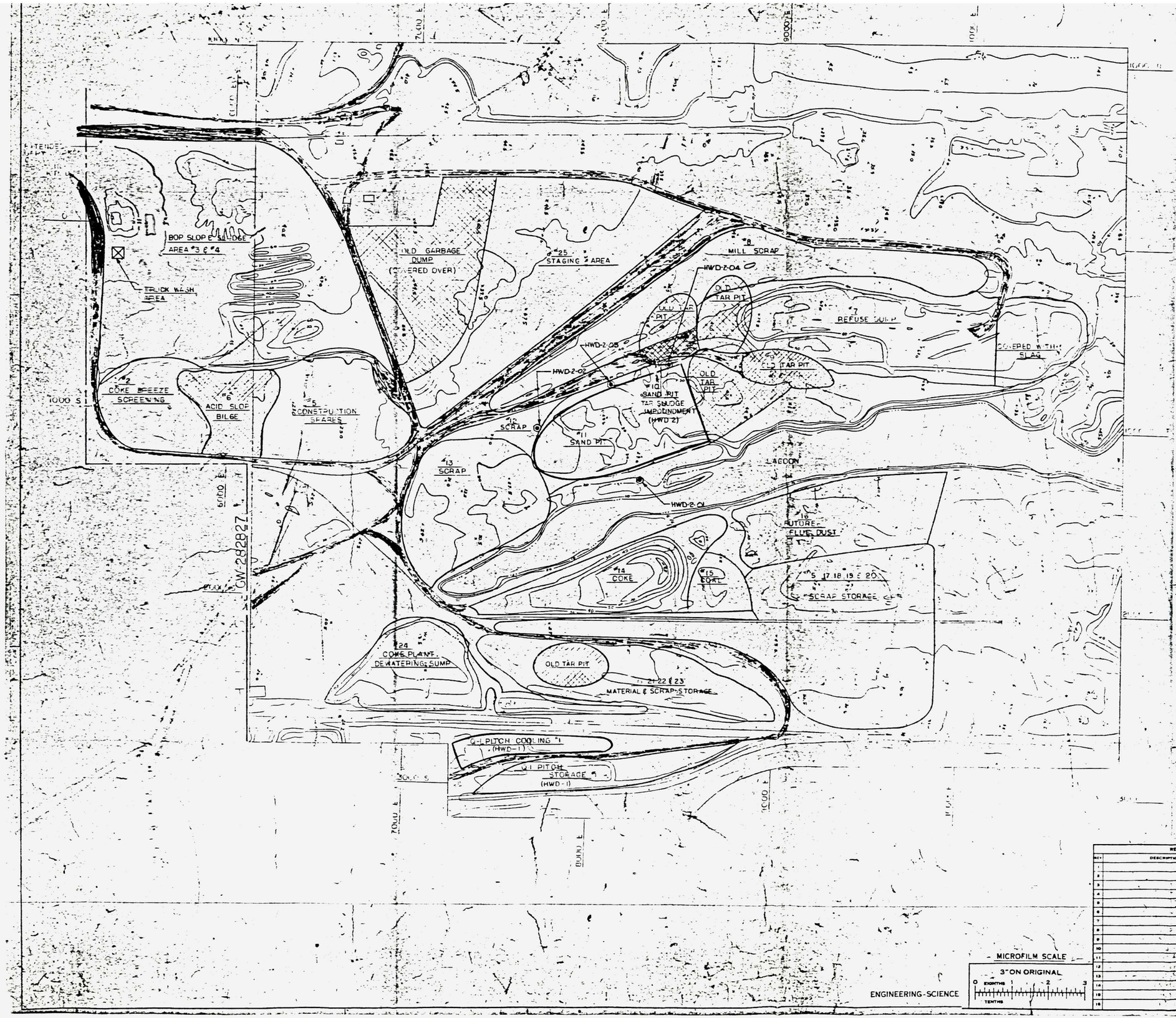
MARK	REQ'D	DESCRIPTION	MATERIAL	REMARKS
		BILL OF MATERIAL		

PLANT GENERAL
SOUND WASTE STUDY 1980
HAZARDOUS WASTE MANAGEMENT FACILITIES
LOCATION PLAN
FORMERLY ENGINEERING-SCIENCE DWG # 44

UNITED STATES STEEL CORPORATION
GARY WORKS
SAFETY USS FIRST

DRAWN BY C DATE 9-10-80 SCALE 1" = 400'
CHECKED BY _____ DATE _____
IN CHARGE OF

GW-282827



NOTES:

1. FOR LEGEND SEE DWG Nº GW-282825.

GROUND-WATER MONITORING WELL LOCATION

GROUND-WATER MONITORING WELL DATA

Designation	Top of 8" Protective Casing Elevation (Feet)	Bottom of Well Elevation (Feet)	Coordinates of Well Centerline (Feet)
HWD-1-01	22.62	539.35	S=1,687.26 E=8,296.59
HWD-2-02	44.42	719.25	S=1,150.93 E=7,798.88
HWD-3-03	57.63	38.47	S=1,455.84 E=8,971.36
HWD-2-04	52.53	715.04	S=1,002.81 E=8,719.81

NOV 16 1981

REVISIONS					MARK	REQ'D	DESCRIPTION	MATERIAL	REMARKS
REV	DESCRIPTION	DATE	BY	CH'K			BILL OF MATERIAL		
1					USS CORP STD FINISHES BASED ON GEN ELECTRIC ROUGHNESS SPECIMENS				
2									
3									
4					SYMBOL	CLASS	MAXIMUM ROUGHNESS ARITHMETIC AVERAGE (MICROINCHES)		
5									
6									
7						SUPER FINISH	4		
8						POLISH	8		
9						GROUND	16		
10						SMOOTH	32		
11						FINE	63		
12						SEMI-FINE	125		
13						MEDIUM	250		
14						SEMI-ROUGH	500		
15						ROUGH	1000		
16						CLEAN UP	2000		

THE GARY WORKS
GENERAL FACILITY LOCATION PLAN
HAZARDOUS WASTE PROGRAM

UNITED STATES STEEL CORPORATION
GARY WORKS
SAFETY FIRST

DRAWN BY © DATE SCALE 1" = 200'
CHECKED BY DATE
IN CHARGE OF

GW-276873

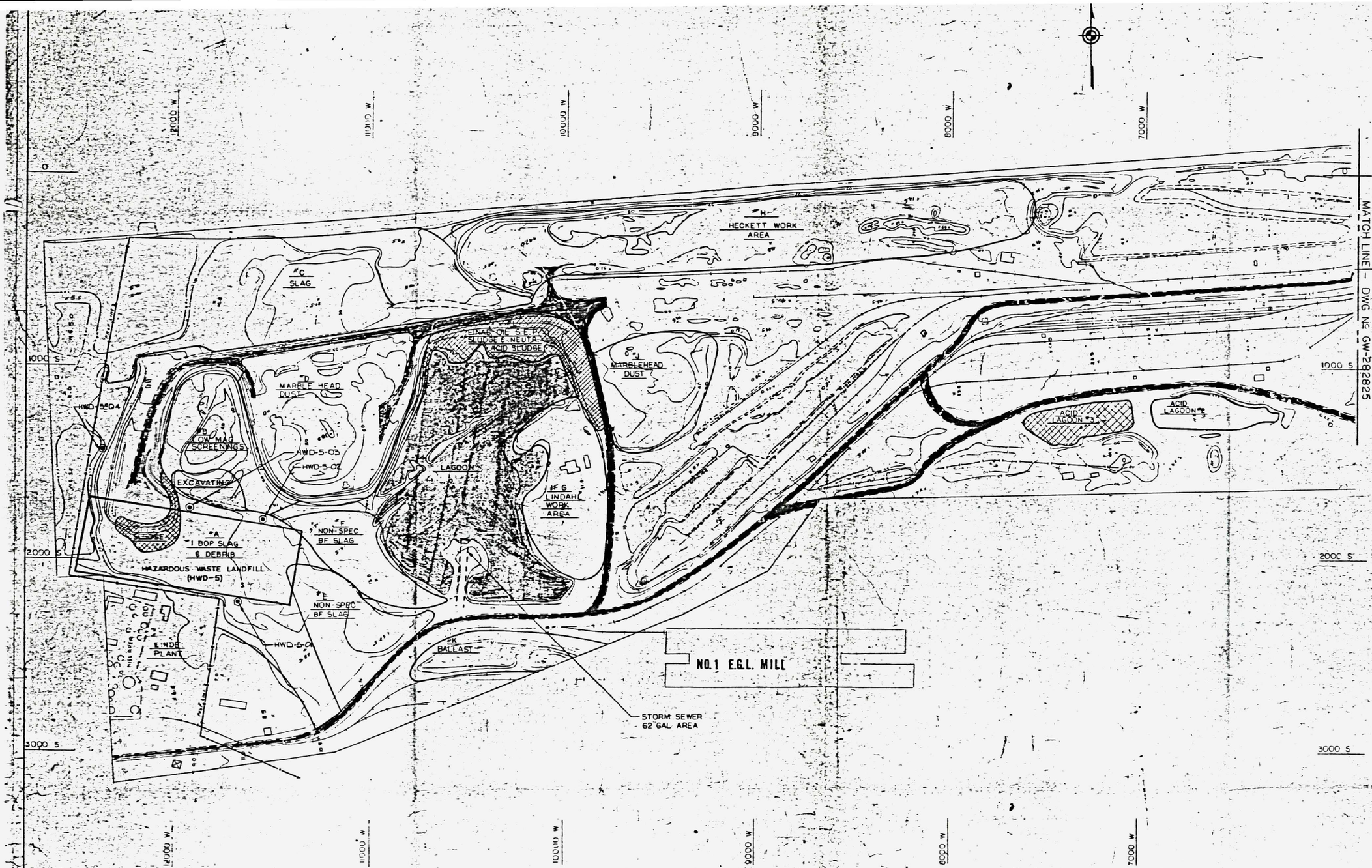
MICROFILM SCALE
3" ON ORIGINAL
0 EIGHTHS 1 2 3
TENTHS

ENGINEERING-SCIENCE

NOTES:
1. FOR LEGEND SEE DWG Nº GW-282825.
GROUND-WATER MONITORING WELL LOCATION

GROUND-WATER MONITORING WELL DATA

Designation	Top of Protective Casing Elevation (Feet)	Bottom of Well Elevation (Feet)	Coordinates of Well Centerline (Feet)
HWD-5-01	18.96	-38.45	S- 2,585.08 W-11,828.74
HWD-5-02	18.39	-32.80	S- 2,793.05 W-11,287.53
HWD-5-03	17.08	-28.89	S- 2,871.42 W-11,841.32
HWD-5-04	15.57	-35.60	S- 1,416.37 W-12,533.94



NOV 16 1981

REVISIONS					MARK	REQ'D	DESCRIPTION	MATERIAL	REMARKS
REV.	DESCRIPTION	DATE	BY	CH'K.					
1									
2									
3									
4									
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14									
15									
16									

BILL OF MATERIAL

U.S.S. CORP. STD. FINISHES BASED ON ASTM ELECTRIC ROUGHNESS SPECIMENS

SYMBOL	CLASS	ROUGHNESS RMS MICROINCHES ± 1 MICROINCH
▽	SUPER FINISH	4
▽	POLISH	8
▽	GRINDING	16
▽	SMOOTH	32
▽	FINE	63
▽	SEMI-FINE	125
▽	MEDIUM	250
▽	SEMI-ROUGH	500
▽	ROUGH	1000
▽	CLEAR BF	2000

TOPOGRAPHIC: STOCKTON LANDFILL
GENERAL FACILITY LOCATION PLAN
HAZARDOUS WASTE PROGRAM
FORMERLY ENGINEERING SCIENCE DWG 46

UNITED STATES STEEL CORPORATION
GARY WORKS
SAFETY USS FIRST

DRAWN BY: G DATE: 10-21-80 SCALE: 1" = 200'
CHECKED BY: DATE:
IN CHARGE OF

GW-276874

MICROFILM SCALE
3" ON ORIGINAL
0 EIGHTHS 1 2 3
TENTHS

ENGINEERING-SCIENCE