REMEDIAL DESIGN

CONTRACT DRAWINGS CONTRACT NO. D004478

FOR THE WEST SIDE CORPORATION SITE OPERABLE UNIT NO. 1 NYSDEC SITE 2-41-026 JAMAICA, QUEENS COUNTY, NEW YORK



Prepared for:

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION 625 Broadway, Albany, New York

Erin Crotty, Commissioner

DIVISION OF ENVIRONMENTAL REMEDIATION

JUNE 2004

URS Corporation

Group Consultants

640 Ellicott Street
Buffalo, New York 14203
(716)856-5636 phone - (716)856-2545 fax

SOIL GAS POINT

_1<u>5</u>"_CMP

DW C

GV O

w.

1+00/1+50GM

GM

SEWER MANHOLE

DRAINAGE MANHOLE

UNDERGROUND PIPE

UNDERGROUND GAS

GAS VALVE

WATER VALVE FIRE HYDRANT UTILITY POLE OVERHEAD WIRE

GRID POINT CHAIN LINK FENCE

UNDERGROUND ELECTRIC

CORRUGATED METAL OR STOCKADE FENCE

CATCH BASIN FIELD INLET

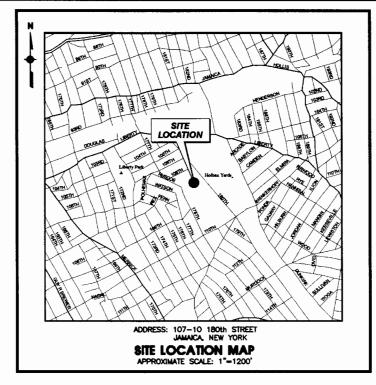
EKAL	LIGEND	
		BAY
	- -32	CONTOUR LINE (1 FOOT INTERVAL)
		PROPERTY LINE (FROM TAX MAPS)
	٥	BOLLARD
	_	COLUMN
	+	SVE EXTRACTION WELL
	•	DEPRESSURIZATION SUCTION POINT
	⊗	VACUUM MONITORING POINT
	•	ELECTRODE/VAPOR RECOVERY WELL
	•	TEMPERATURE MONITORING POINT
		BUTTERFLY VALVE
	\bowtie	CATE VALVE
	基	RELIEF VALVE
	2	- DETAIL
	25 29	-sheet on which detail is located
		-sheet on which detail is first called out

ELECTRICAL LEGEND					
10 MOTOR HORSEPOWER W/TAG BELOW	TAH TEMPERATURE ALARM HIGH	MOTOR OVERLOADS			
AP ANALYSIS OR MEASUREMENT POINT	TEMPERATURE CONTROL	ZA FUSE PRECEPTACLE			
FLOW ALARM LOW FE FLOW ELEMENT	TDD RELAY - TIME DELAY ON DE-ENERGIZE	MAN STOP ALITO 3-WAY ROTARY SWITCH			
or sensor	TIDE TIME DELAY ON ENERGIZE	SWITCH CONTACT CLOSED IN "AUTO" (TYP.)			
FQ FLOW TOTALIZER	— → SWITCH CONTACTS N.O. — / SWITCH CONTACTS N.C.	TEMPERATURE SWITCH/CONTROL			
(FS) FLOW SWITCH	ELECTRICAL INTERLOCK PUSHBUTTON	• MUFFIN FAN FLUORESCENT			
(AH) LEVEL ALARM HIGH	BEACON OR ALARM LIGHT	PANEL LIGHT PENDANT LIGHT			
LEVEL CONTROL	LEVEL SWITCH LOW	LOCKABLE DISCONNECT SWITCH W/			
LEVEL INDICATOR	FU- (()A) FUSE BLOCK W/AMP RATING TERMINAL BLOCK SS SHIFT D CROINED BLOCK	FUSE BLÓCK			
(S) LEVEL SWITCH	HK K2 RELAY CONTACTS				
(LSH) LEVEL SWITCH HIGH	MK K2 RELAY CONTACTS (N.C.)				
M MOTOR STARTER	G GREEN PILOT LIGHT				
PRESSURE INDICATOR R RELAYS	M T MOTOR STARTER CONTACTS				
	6 CIRCUIT BREAKER				

GENERAL ABBREVIATIONS			
ASPH	ASPHALT	F.M.	FORCEMAIN
APPROX.	APPROXIMATE	HOR	HORIZONTAL
BLDG.	BUILDING	HYD.	HYDRANT
BLKTP.	BLACKTOP	INV.	INVERT
C.B.	CATCH BASIN	LF.	LINEAR FEET
c/c	CENTER TO CENTER	MAX.	MAXIMUM
CMP	CORRUGATED METAL PIPE	MH	MANHOLE
CONC.	CONCRETE	MIN.	MINIMUM
DI	DRAIN INLET	NIC	NOT IN CONTRACT
DIA.	DIAMETER	NTS	NOT TO SCALE
DRMO	DEFENSE REVITALIZATION	TBD	TO BE DEVELOPED
EL, ELEV.	AND MARKETING OFFICE ELEVATION	TYP.	TYPICAL
EXIST.	EXISTING		

ELECTRICAL ABBREVIATIONS

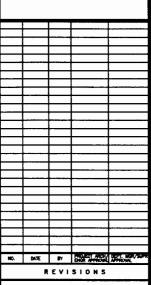
ELECTRICAL ADDRESSALION					
() A	() AMPS	LS~()	LEVEL SWITCH		
AC	ALTERNATING CURRENT	LSH-()	LEVEL SWITCH HIGH		
ACK	ACKNOWLEDGE	LSHH-()	LEVEL SWITCH HIGH-HIGH		
AP	ANALYSIS OR MEASUREMENT POINT	LSL-()	LEVEL SWITCH LOW		
B CT DC	BLACK WIRE CURRENT TRANSFORMER DIRECT CURRENT	LT-() M N OL	LEVEL TRANSMITTER MOTOR OR MOTOR STARTER NEUTRAL OVERLOAD		
EW-() FAL-()	EXTRACTION WELL FLOW ALARM LOW	()ø PI−()	Phase Pressure indicator		
FAH-() FE FI-() FO-() FS-() FT-() FU G H HOA HS LX LX LA-() LAH-() LAL-()	FLOW ALARM HIGH FLOW ELEMENT OR SENSOR FLOW INDICATOR FLOW TOTALIZER FLOW SWITCH FLOW TRANSMITTER FUSE GROUIND HOT HAND/OFF/AUTO SWITCH HAND SWITCH HERZ OR CYCLE INTERLOCK KILOVOLTAMPS LEVEL ALARM LEVEL ALARM HIGH LEVEL ALARM LOW	PI-() PS-() PSL-() PSL-() PSH-() PSH-() PSHH-() PT R ROS SW-() TAH-() TC-() TDD-() TDE-() TS-() TS-()	POWER SUPPLY PRESSURE SWITCH LOW PRESSURE SWITCH LOW-LOW PRESSURE SWITCH HIGH		
LC-() LE-() LF-()	LEVEL CONTROL LEVEL ELEMENT OR SENSOR LIGHT FIXTURE W/TAG NO. LEVEL INDICATOR	TSC-() VAC W	TEMPERATURE SWITCH CONTROL VOLTS AC WHITE WIRE		



	INDEX OF DRAWINGS			
DWG. NO. DESCRIPTION				
*	TITLE SHEET			
* 1	ABBREVIATIONS, LEGEND, GENERAL NOTES, SITE LOCATION MAP, AND INDEX OF DRAWINGS			
* 2	SITE PLAN OF EXISTING CONDITIONS			
* 3	SITE PLAN OF FACILITIES AND SUBSURFACE STRUCTURES			
* 4	ELECTRICAL RESISTANCE HEATING (ERH) AREA PLAN			
* 5 CONTRACTORS WORK AREA AND USE OF SITE				
* 6				
* 7	PROCESS FLOW DIAGRAM			
* 8	PROCESS AND INSTRUMENTATION DIAGRAM			
* 9	PIPING LAYOUT PLAN AND DETAILS			
* 10	MISCELLANEOUS DETAILS			
* 1 1	SUBSURFACE CONSTRUCTION DETAILS			
* 12	ELECTRICAL PLAN			
* 13	SOIL VAPOR EXTRACTION (SVE) ONE LINE ELECTRICAL DIAGRAM			
* 14	SOIL VAPOR EXTRACTION (SVE) CONTROL PANEL WIRING			
* 15	ELECTRICAL RESISTANCE HEATING (ERH) ELECTRICAL			

GENERAL NOTES

- 1. IT IS A VIOLATION OF SECTION 7209, SUBDIMSION 2, OF THE NEW YORK STATE EDUCATION LAW FOR ANY PERSON OTHER THAN WHOSE SEAL APPEARS ON THIS DRAWING, TO ALTER IN ANY WAY AN ITEM ON THIS DRAWING. IF AN ITEM IS ALTERED, THE ALTERING ENGINEER SHALL AFFIX TO THE ITEM HIS SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY HIS SIGNATURE AND THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION."
- THE TOPOGRAPHY ON THESE DRAWINGS SHALL NOT BE USED FOR CONSTRUCTION. THIS DRAWING IS PROVIDED FOR GENERAL LOCATION AND ARRANGEMENT.
- 3. THE LOCATION OF ANY UNDERCROUND UTILITIES SHOWN ARE APPROXIMATE AND ALL UTILITIES MAY NOT BE SHOWN. PRIOR TO ANY CONSTRUCTION ACTIVITIES, ALL UTILITY COMPANIES SHOULD BE NOTIFIED IN ORDER TO VERIFY OR AMEND THEIR LOCATIONS AND/OR EXISTENCE FOR ASSISTANCE CALL UFPO AT
- 4. THE CONTRACTOR SHALL COMPLY WITH ALL THE REQUIREMENTS OF OSHA SUBSECTION "P" EXCAVATIONS, TRENCHING AND SHORING SECTIONS 1926.50 THROUGH 1926.653, AND ARTICLE 4 SECTION 27-1031 AND 1032 OF THE NEW YORK CITY BUILDING CODE.
- ALL WORK SHALL BE IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS, CODES AND REQUIREMENTS AND AS DIRECTED BY THE DEPARTMENT.



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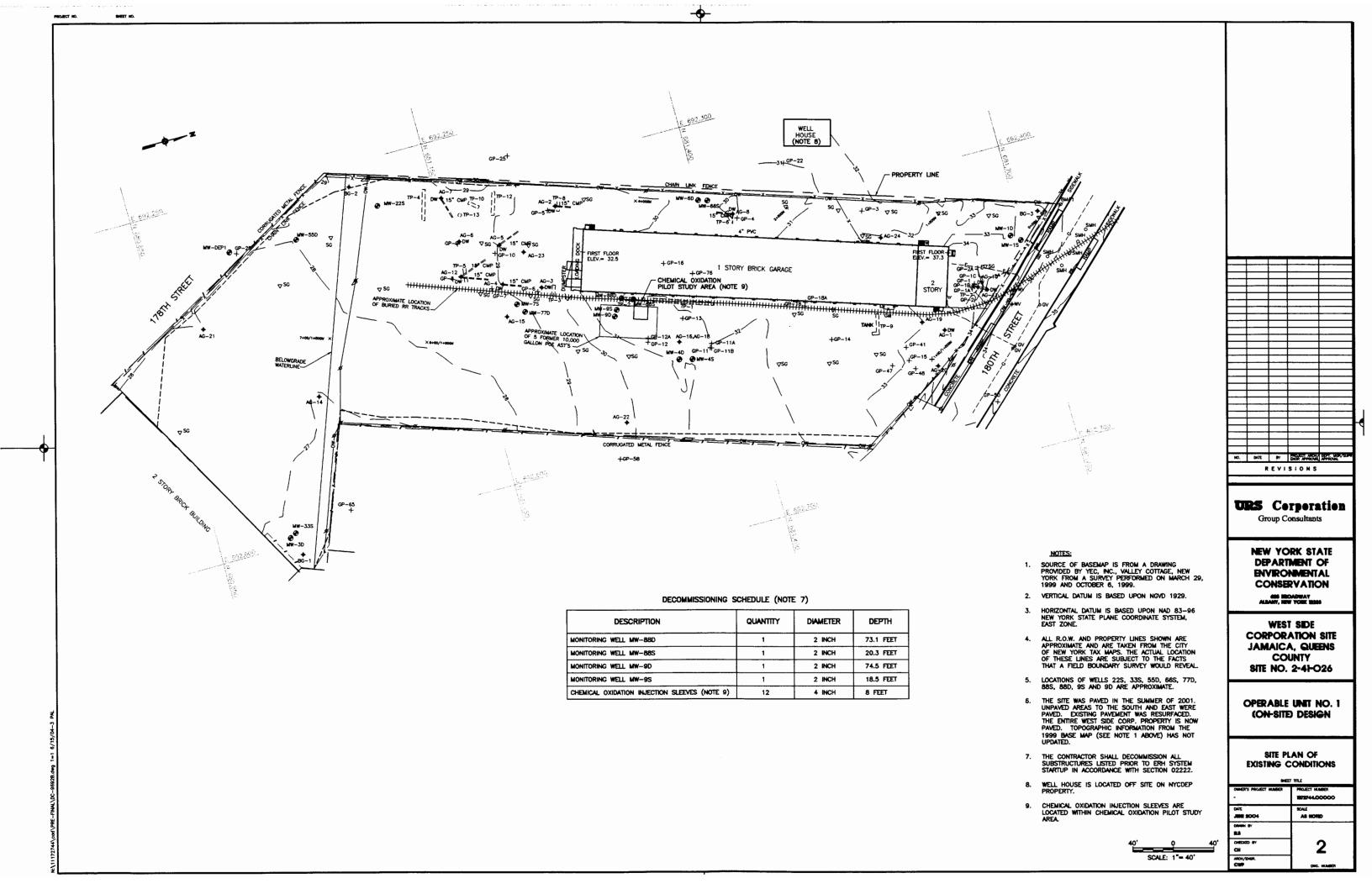
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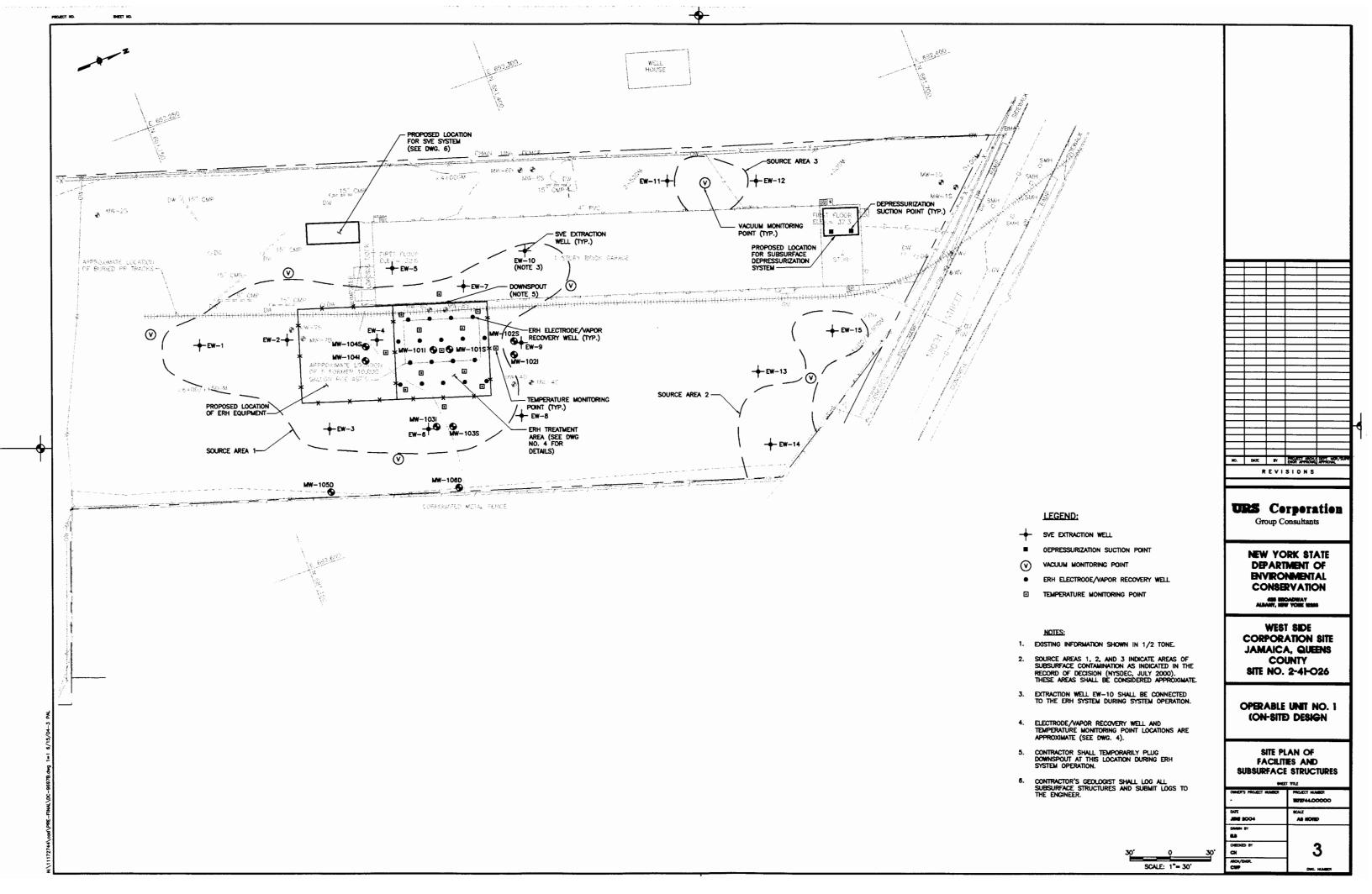
WEST SIDE CORPORATION SITE JAMAICA, QUEENS COUNTY SITE NO. 2-41-026

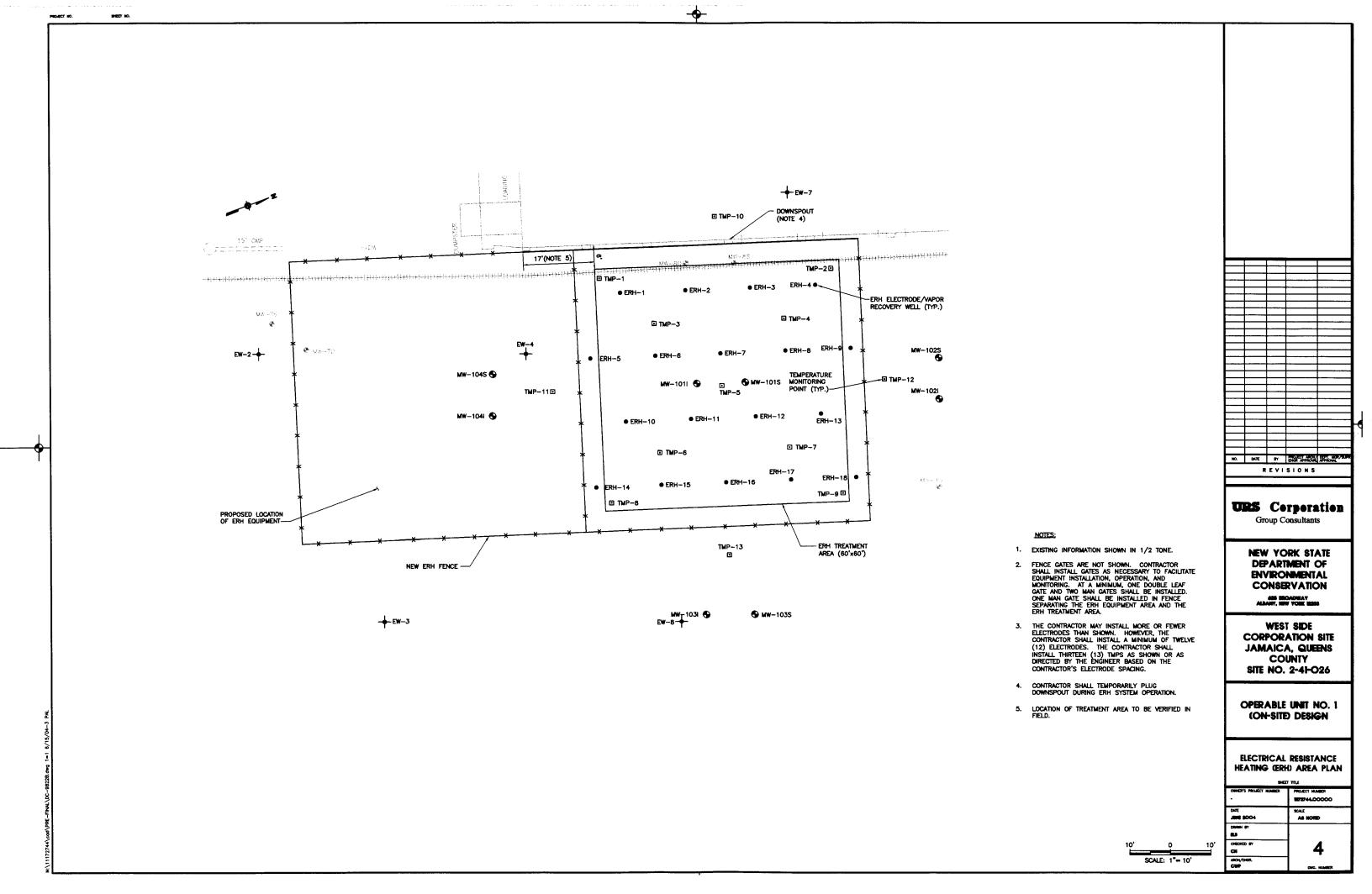
OPERABLE UNIT NO. 1 (ON-SITE) DESIGN

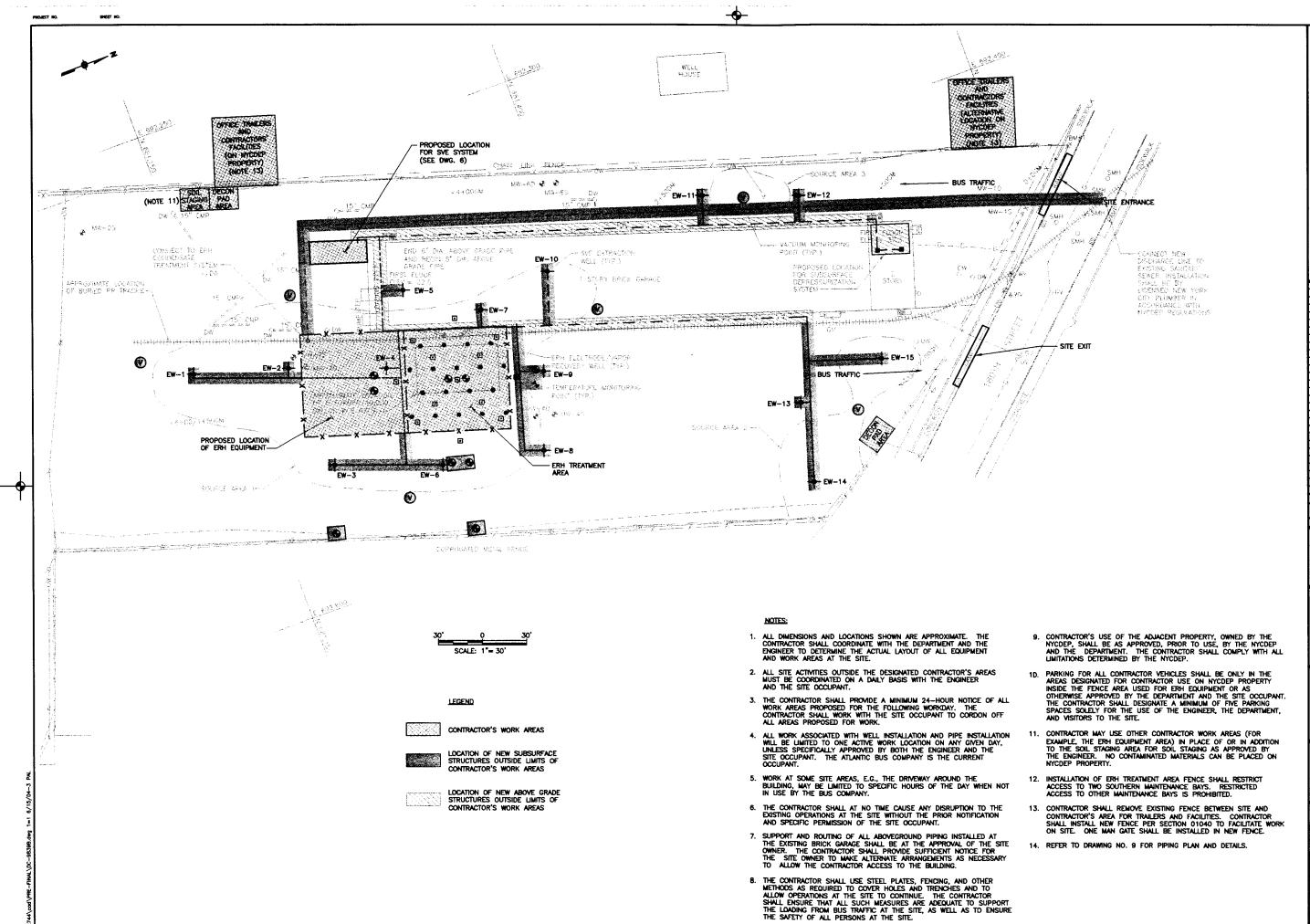
ABBREVIATIONS, LEGEND, GENERAL NOTES, SITE LOCATION MAP, AND INDEX OF DRAWINGS

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NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

ALBANY, NEW YORK 18893

WEST SIDE CORPORATION SITE JAMAICA, QUEENS COUNTY SITE NO. 2-41-026

OPERABLE UNIT NO. 1 (ON-SITE) DESIGN

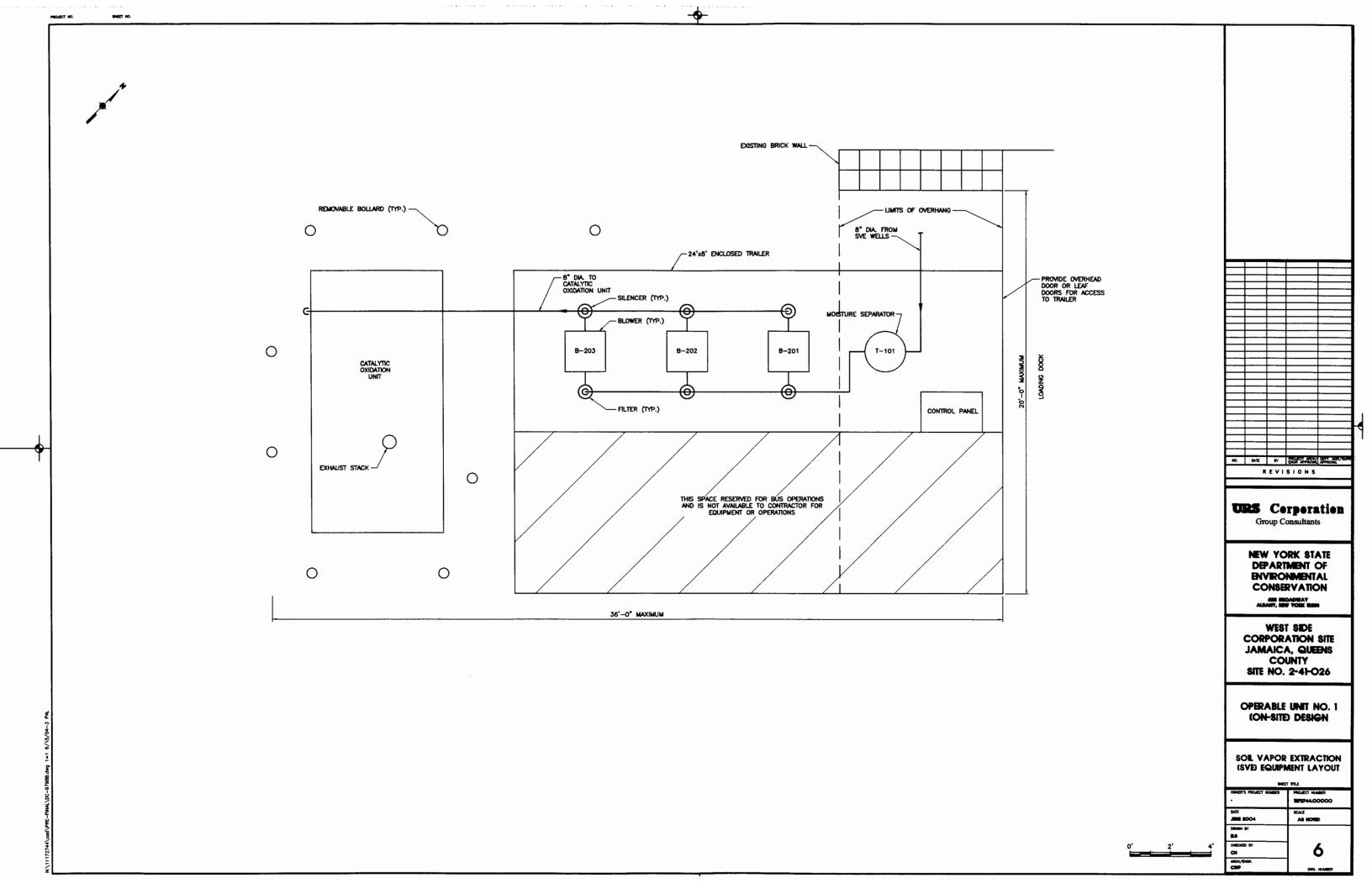
CONTRACTORS WORK AREA AND USE OF SITE

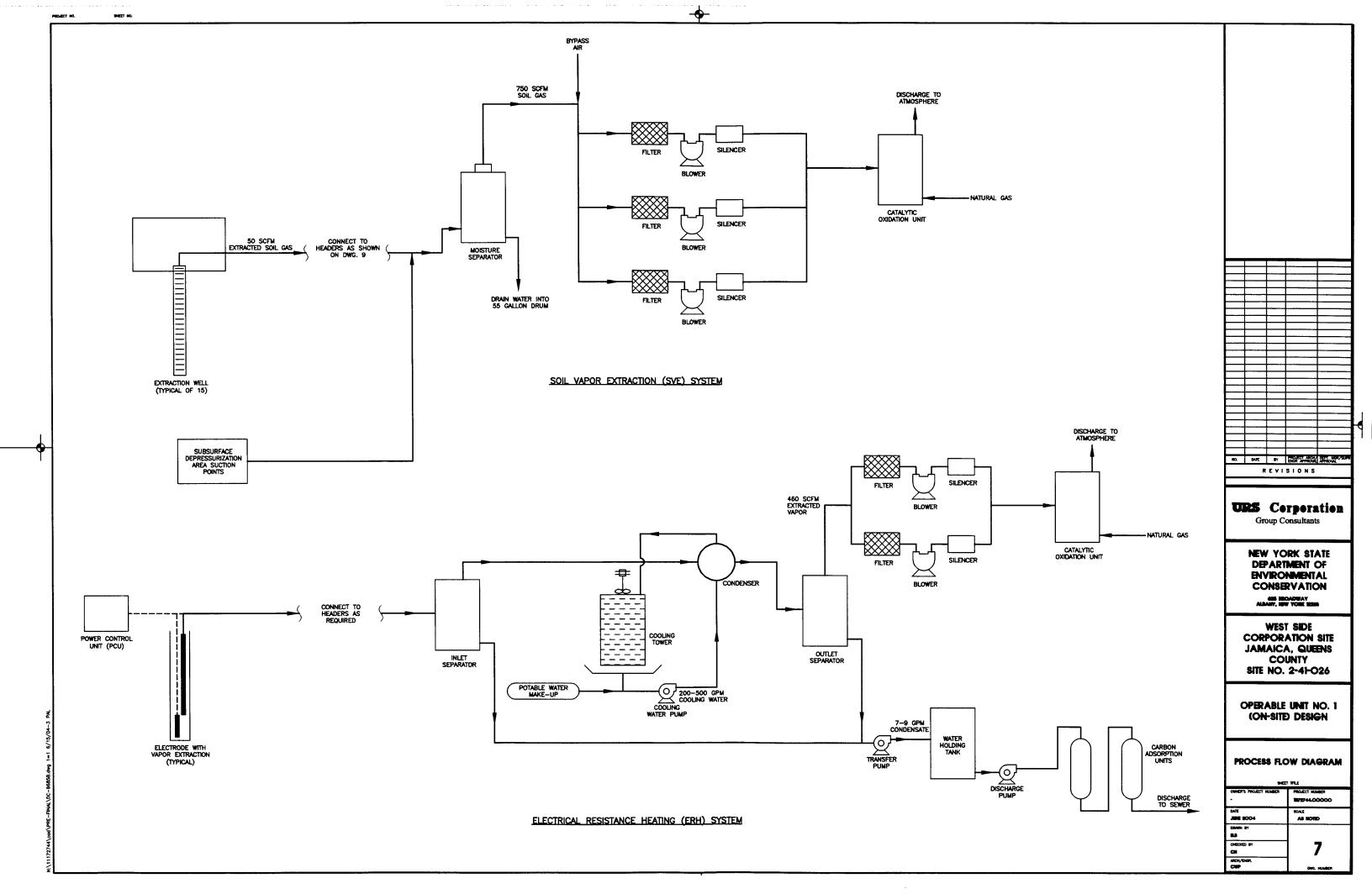
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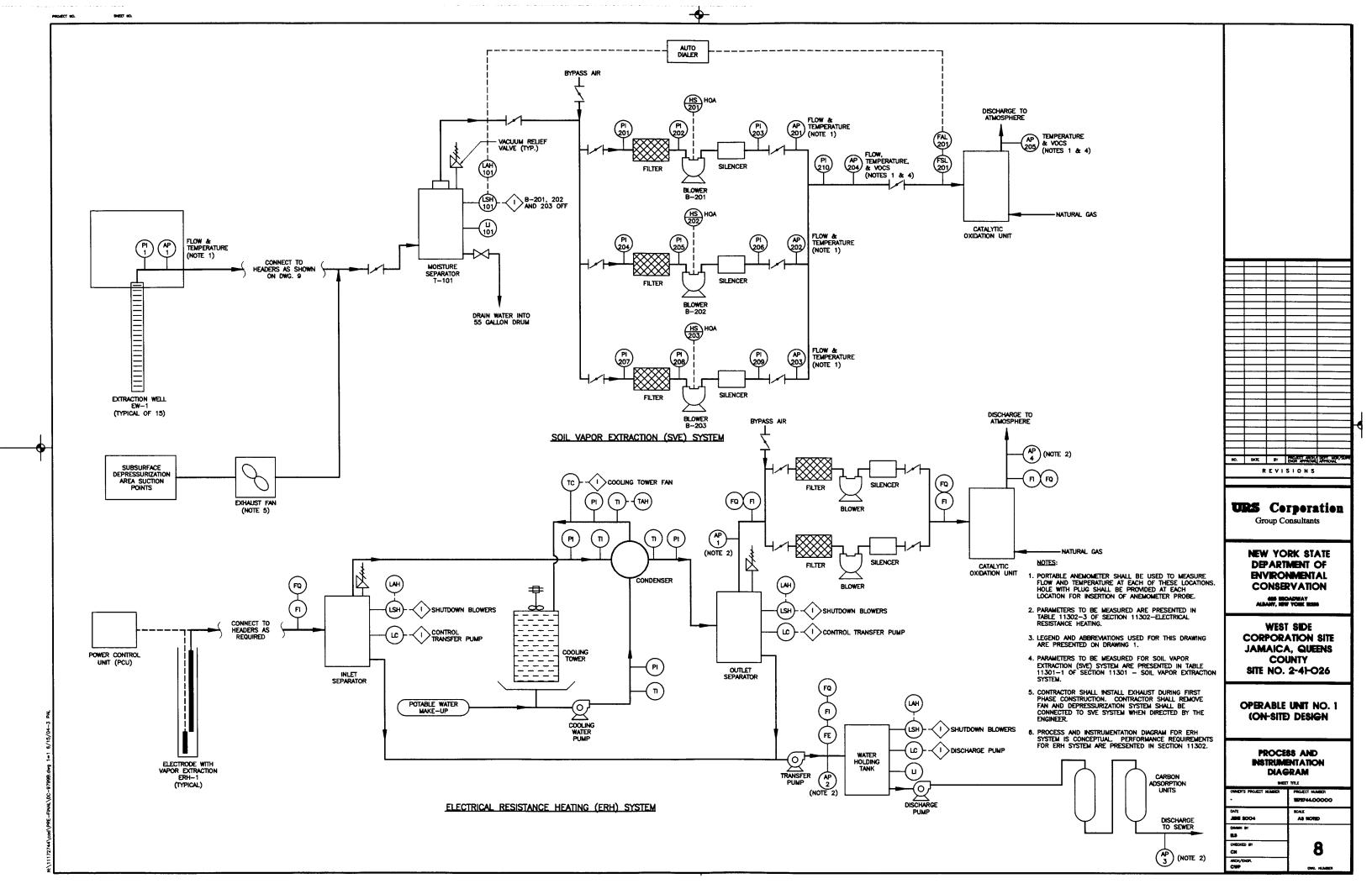
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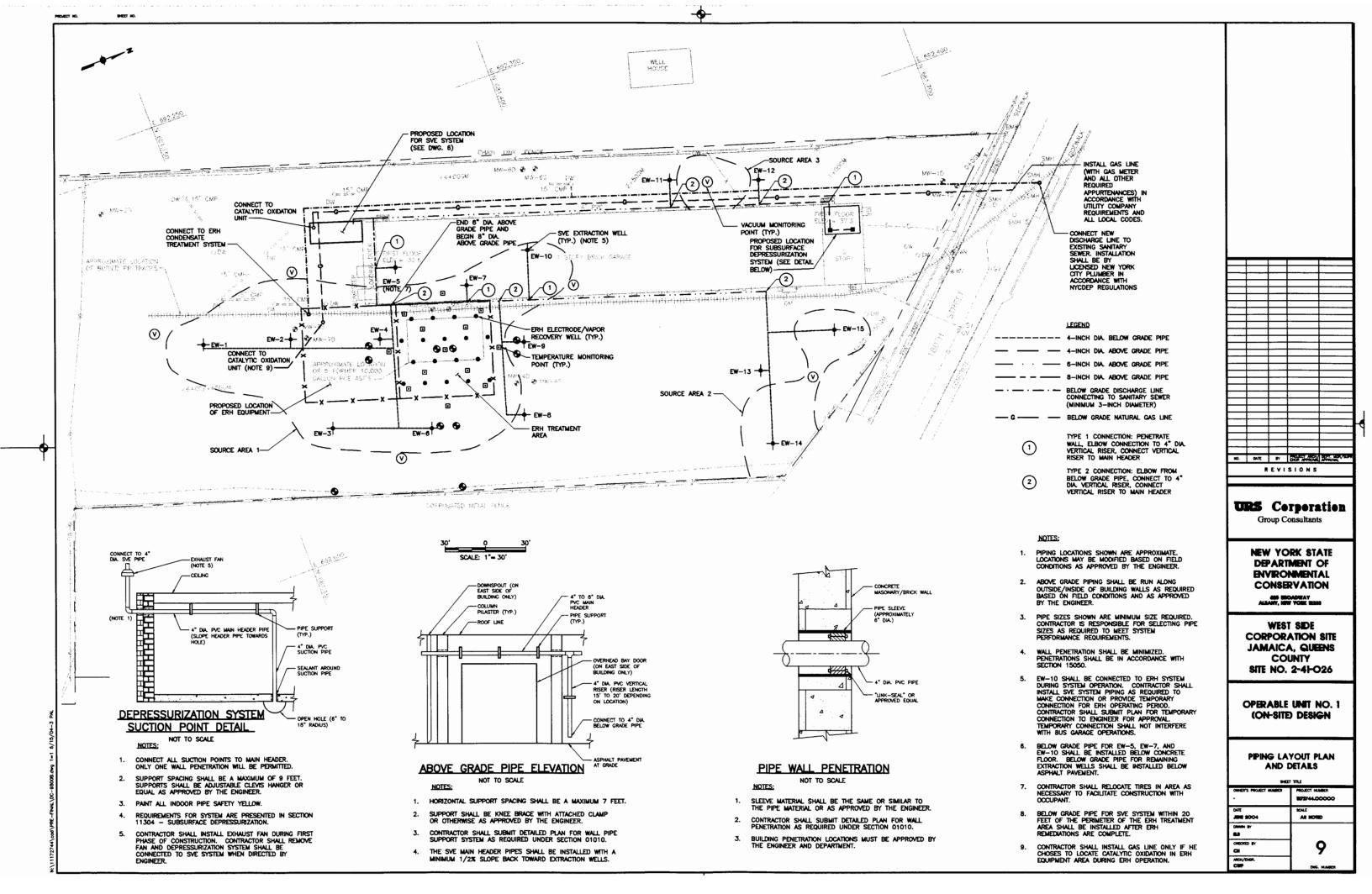
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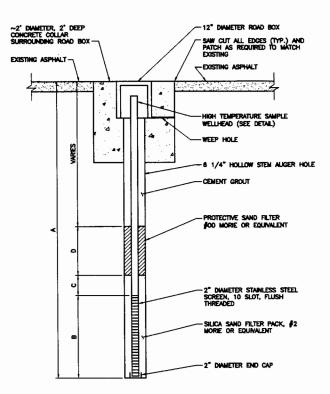
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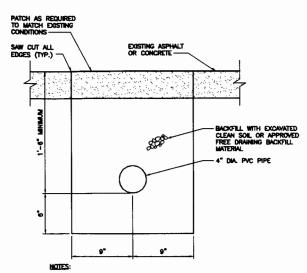




MONITORING WELL CONSTRUCTION SCHEDULE				
WELL NUMBER	(A) TOTAL WELL DEPTH FROM EXISTING GRADE (FT.)	(B) SCREEN LENGTH (FT.)	(C) DEPTH OF FILTER PACK ABOVE SCREEN (FT.)	(D) PROTECTIVE SAND FILTER (FT.)
MW-101S	25	15	3	2
MW-1011	35	10	3	2
MW-102S	25	15	3	2
MW-1021	40	15	3	2
MW-103S	25	15	3	2
MW-103i	40	15	3	2
MW-104S	25	15	3	2
MW-104I	40	15	3	2
MW-105D	75	10	3	2
MW-106D	75	10	3	2

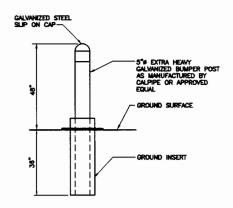
NOTE:

 Total Well Depth for MW-105 and MW-106 is approximate Well Screen Shall extend 2 feet into gardner Clay. Actual Well Depth Shall be determined in the field as approved by the engineer.



 BELOW GRADE SVE PIPES SHALL BE INSTALLED WITH MINIMUM CONSTANT 1% SLOPE BACK TOWARD EXTRACTION WELLS.

SVE PIPE TRENCH DETAIL.

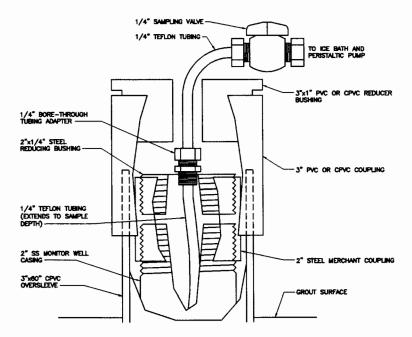


NOTE: THE CONTRACTOR SHALL PAINT BOLLARDS SAFETY YELLOW OR ANOTHER COLOR AS INDICATED BY THE CONSTRUCTION MANAGER.

TYPICAL PIPE BOLLARD DETAIL

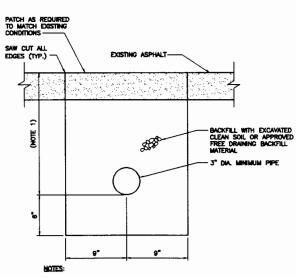
NOT TO SCALE

MONITORING WELL CONSTRUCTION DETAIL



NOTE: TOTAL WELL HEAD HEIGHT (INCLIDING VALVE) SHALL BE MINIMUM 2 NICHES LESS THAN HEIGHT OF ROAD BOX.

HIGH TEMPERATURE SAMPLE WELLHEAD NOT TO SCALE

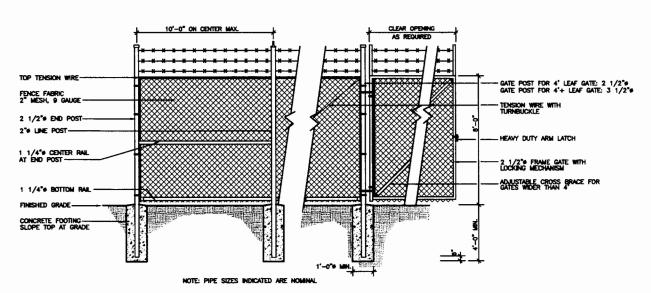


 BURIAL DEPTH TO BE DETERMINED BY DISCHARGE LOCATION, THE REQUIREMENTS OF NYCDEP, AND AS APPROVED BY THE ENGINEER.

DISCHARGE LINE CONNECTING

TO SANITARY SEWER

NOT TO SCALE



FENCE DETAIL
NOT TO SCALE

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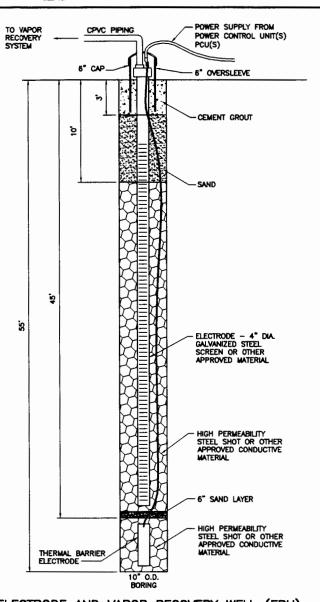
485 SROADWAY ALBANY, HEW YORK MASS

WEST SIDE CORPORATION SITE JAMAICA, QUEENS COUNTY SITE NO. 2-41-026

OPERABLE UNIT NO. 1 (ON-SITE) DESIGN

MISCELLANEOUS DETAILS

OWERT'S PROJECT HAMBER
PROJECT HAMBE



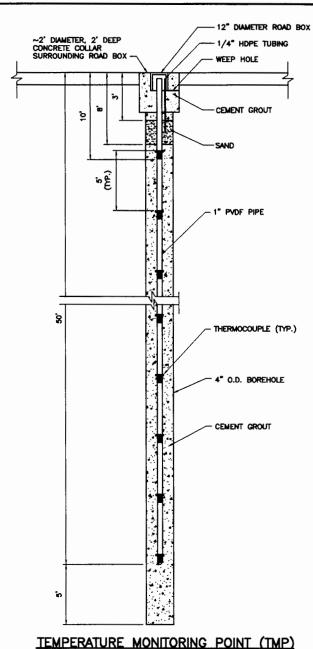
ELECTRODE AND VAPOR RECOVERY WELL (ERH) (TYP.)

NOT TO SCALE

SVE EXTRACTION WELL CONSTRUCTION SCHEDULE				
WELL NUMBER	CASING MATERIAL	SCREEN MATERIAL	TOTAL WELL DEPTH (FT.)	LENGTH OF SCREEN (FT.)
EW-1	PVC	PVC	10	7.5
EW-2	PVC	PVC	10	7.5
EW-3	PVC	PVC	10	7.5
EW-4	CPVC	CPVC	12	9.5
EW-5	PVC	PVC	10	7.5
EW-6	PVC	PVC	12	9.5
EW-7	CPVC	CPVC	10	7.5
EW-8	PVC	PVC	12	9.5
EW-9	PVC	PVC	12	9.5
EW-10	PVC	PVC	10	7.5
EW-11	PVC	PVC	10	7.5
EW-12	PVC	PVC	10	7.5
EW-13	PVC	PVC	10	7.5
EW-14	PVC	PVC	10	7.5
EW-15	PVC	PVC	10	7.5

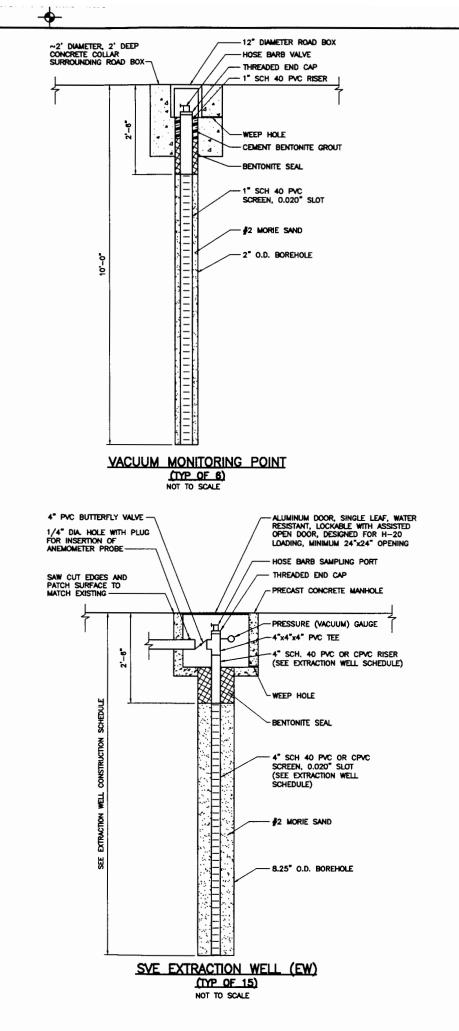
NOTES

- EXTRACTION WELLS EW-5, EW-7, AND EW-10 ARE INSIDE BUILDING. INSTALLATION IS THROUGH CONCRETE FLOOR.
- 2. TOTAL WELL DEPTH IS BELOW GROUND SURFACE (BGS).



(TYP_OF_13)

NOT TO SCALE



WEST SIDE
CORPORATION SITE
JAMAICA, QUEENS

COUNTY SITE NO. 2-41-026

NO. DATE BY ENOR APPRO

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DEPARTMENT OF

ENVIRONMENTAL

CONSERVATION

OPERABLE UNIT NO. 1 (ON-SITE) DESIGN

SUBSURFACE CONSTRUCTION DETAILS

AMER'S PROJECT HABBER

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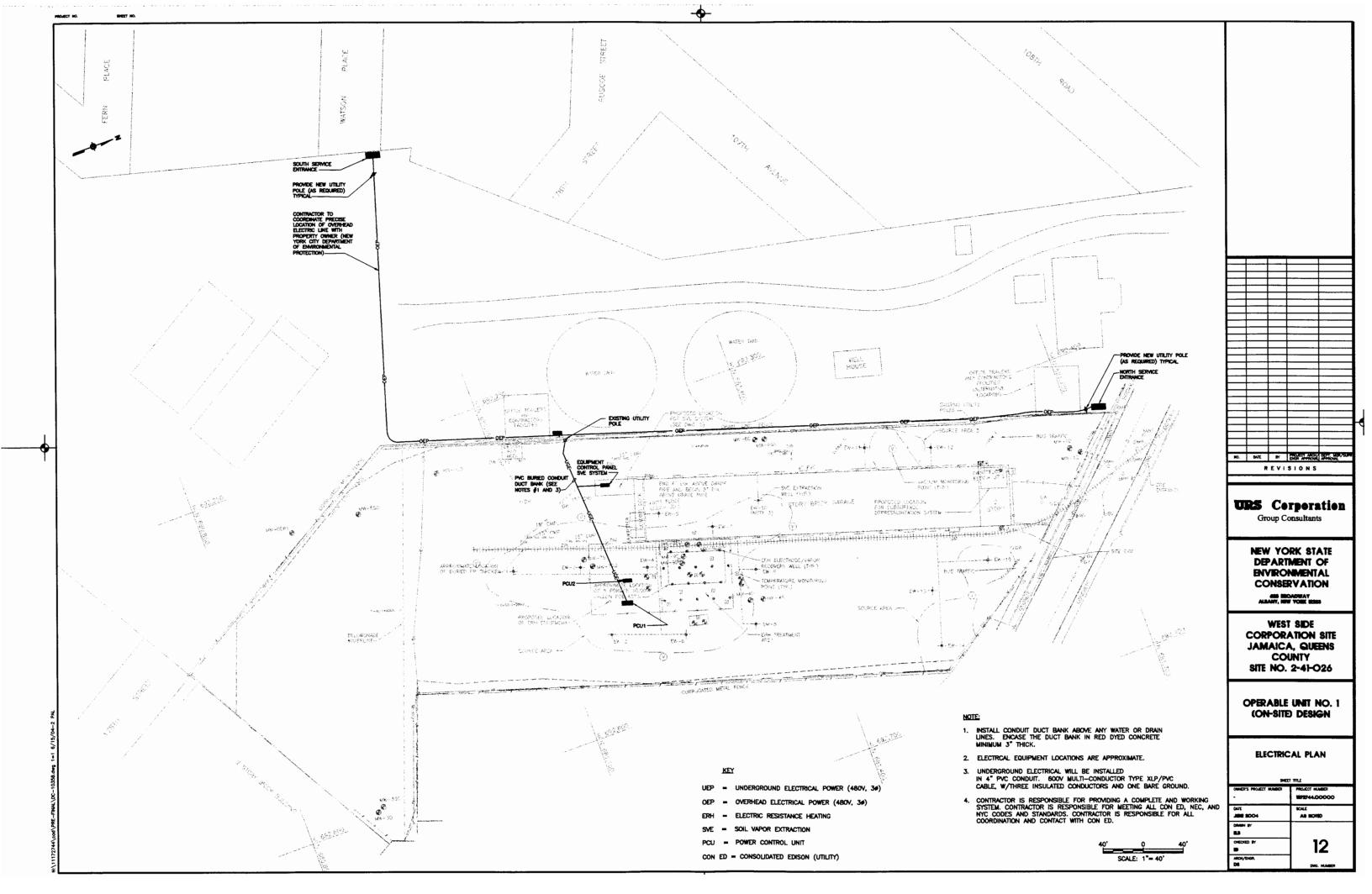
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7 INCOMING POWER 480V, 3ø, 60 HZ FROM TRANSFORMER (SEE DRAWING 12) DISCONNECT 100A ☐FU 20A | FU T.D. 20A∏FU T.D. ∏ SQUARE D-TELEMECANIQUE
INTEGRAL
SELF-PROTECTED
STARTERS WITH ISOLATOR
AND OVERLOAD
PROTECTION MODULE AWG 10 AWG 10 AWG 10 120V
AC TERMINAL STRIP
TS-AC
II TIL
FU-1AC 3A BLOWER B-201
TN CONTROLS ⊥ M-202 Ŭ M-203 M-201 TU-2AC 3A BLOWER B-202 CONTROL CIRCUIT FU-3AC 3A BLOWER B-203
CONTROL CIRCUIT

SO BLOWER B-203
CONTROL CIRCUIT

SPARE

FU-4AC 3A SPARE

FU-5AC 3A SPARE

FU-6AC 3A SPARE

FU-6AC 3A SPARE

FU-7AC 5A SPARE

FU-7AC 5A SPARE

FU-8AC 3A BLOWER PANEL

BN BN BN BLOWER PANEL

BR ALARM CIRCUITS 200A | FU 460V, 3ø, 60 HZ 460V, 3¢, 60 HZ 460V, 3ø, 60 HZ 20 CKT. 200A 120V INDOOR/OUTDOOR LIGHTING RECEPTACLES & UTILITY POWER (10) (10) (10) BLOWER B-201 BLOWER B-202 BLOWER B-203 FU-11AC 1A SPARE

FU-11AC 1A SPARE

FU-11AC 1A SPARE POWER DISTRIBUTION • SVE TRAILER NOT TO SCALE LOCATED IN BLOWER PANEL "B"

PROJECT NO.

SHEET H

- 1. THE ELECTRICAL CLASSIFICATION WITHIN THE SVE TRAILER IS HAZARDOUS. (SEE SECTION 11301 SOIL VAPOR EXTRACTION SYSTEM)
- 2. TERMINAL STRIPS ARE LOCATED IN BLOWER PANEL "B".
- 3. PRIMARY POWER (15KV) SWITCHGEAR AND TRANSFORMER NOT SHOWN.
- 4. LEGEND AND ABBREVIATIONS PRESENTED ON DRAWING 1.

NO. DATE BY SHOULT AREAS D

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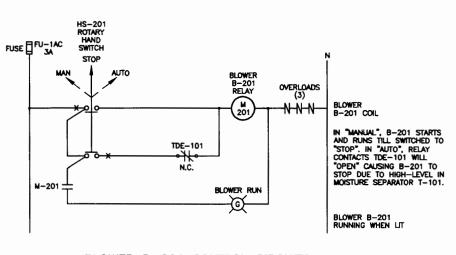
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WEST SIDE **CORPORATION SITE** JAMAICA, QUEENS COUNTY SITE NO. 2-41-026

OPERABLE UNIT NO. 1 (ON-SITE) DESIGN

SOIL VAPOR EXTRACTION (SVE) ONE-LINE ELECTRICAL DIAGRAM

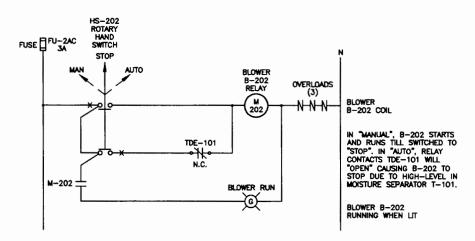
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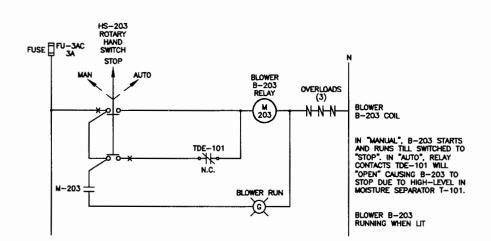
BLOWER B-201 CONTROL CIRCUITS NOT TO SCALE

PROJECT NO.

SHEET N



BLOWER B-202 CONTROL CIRCUITS NOT TO SCALE

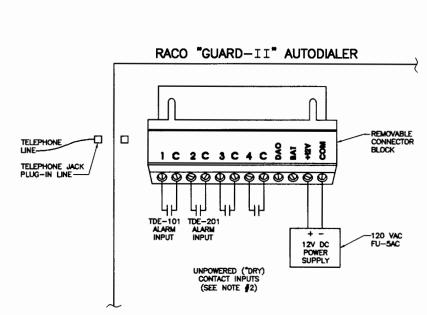


BLOWER B-203 CONTROL CIRCUITS NOT TO SCALE

120 VAC FUSE FU-8AC LEVEL SWITCH CLOSES AT HIGH LEVEL TDE-101 SET • LEVEL IN MOISTURE SEPARATOR T-101 LSH-101 LOCATED AT MOISTURE SEPARATOR T-101 TDE-101 HIGH-LEVEL ALARM CONDITION IN T-101 WHEN LIT TDE-201 FLOW SWITCH SET ● 5 SEC. FLOW INTO CATALYTIC OXIDATION UNIT FSL-201 DELAY LOCATED
UPSTREAM OF
CATALYTIC
OXIDATION UNIT TDE-201 LOW FLOW TO CATALYTIC OXIDATION UNIT WHEN LIT N.O. TDE-201 N.O. TDE-101 RED ALARM BEACON (NON-FLASHING) SEE NOTE #1 BEACON N.O.

7

BLOWER PANEL "B" ALARM CIRCUITS NOT TO SCALE



DUPLEX RECEPTACLE

BLOWER PANEL "B" UTILITIES

NOT TO SCALE

LF-1 INTERIOR

FLOURESCENT LIGHT

TSC-100

TEMPERATURE

SW-1°OFF

LIGHT SWITCH

120 VAC

FUSE FU-9AC

- MOUNT RED ALARM BEACON IN A CONSPICUOUS LOCATION OUTSIDE TRAILER.
- 2. THE INPUT SIGNALS TO THE AUTODIALER CAN BE "DRY" CONTACTS, ANALOG, OR DIGITAL LOGIC. "DRY" CONTACTS ARE SHOWN IN WIRING SCHEMATIC. THE WIRING CONNECTIONS SHOWN ARE FOR A RACO "GUARD-II" AUTODIALER.
- 3. PURCHASE AUTODIALER WITH A.C. TO D.C. TRANSFORMER OR D.C. POWER SUPPLY.



120V, 1# OUTLET

NO. DATE BY PROJECT ARCHI DEPT. NO. REVISIONS **URS** Corporation

Group Consultants

NEW YORK STATE DEPARTMENT OF **ENVIRONMENTAL** CONSERVATION ALBANT, NEW YORK MASS

WEST SIDE **CORPORATION SITE** JAMAICA, QUEENS COUNTY SITE NO. 2-41-026

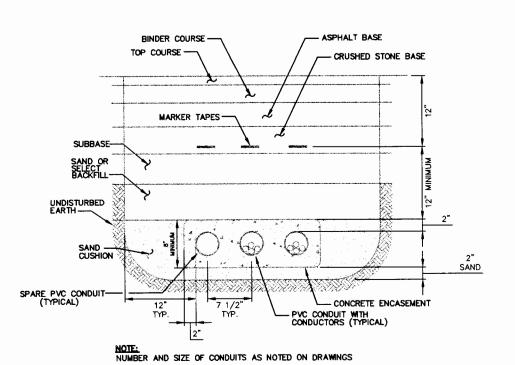
OPERABLE UNIT NO. 1 (ON-SITE) DESIGN

SOIL VAPOR EXTRACTION (SVE) CONTROL PANEL

WW44.00000 JRE 2004 AS NOTED

ELECTRONIC FILE LOCATION

FILE PLOT DATE STAMP



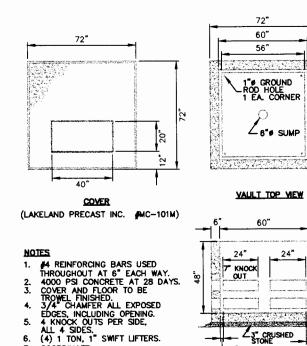
TYPICAL CONDUIT TRENCH DETAIL IN PAVEMENT AREA SCALE: NTS

NORTH ENTRANCE SOUTH ENTRANCE 4160V, 3¢ CON ED 4160V, 3¢ CON ED 1 $\langle 1 \rangle$ △ 4160V △ 480V (3) 600A 600A **④** □ 600A **4** 600A **(M)** (6) (5) (5) 600A 600A 600A (9) **[**] 9 9 **[**] 600A 600A 100A 10 SVE PCU1 PCU2 (12) (12)

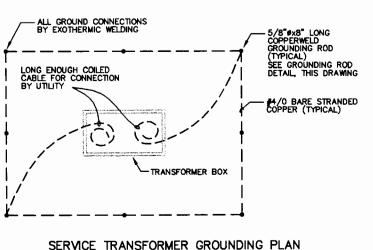
4

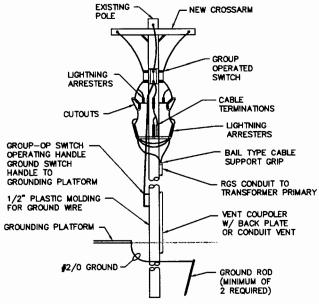
KEY NOTES:

- POLE MOUNTED FUSED CUTOUTS SHALL BE PROVIDED BY CONSOLIDATED EDISON.
- 2. CONTRACTOR TO PROVIDE RISER CONDUIT AND CABLE: (3) #2 AWG, 4°C RGS.
- 3. CON ED TO PROVIDE 500 KVA PADMOUNT TRANSFORMER. CONTRACTOR TO PROVIDE CONDUIT STUBS FOR PRIMARY & SECONDARY CABLING AND CONCRETE PAD & VAULT TO MATCH SUPPLIED TRANSFORMER. CONTRACTOR TO PROVIDE MADE-GROUND SYSTEM PER NEC. CONTRACTOR TO FOLLOW ALL INSTALLATION PRACTICES REQUIRED BY CONSOLIDATED EDISON.
- 4. CONTRACTOR TO PROVIDE WEATHER PROOF DISCONNECT WITH FUSES AT TRANSFORMER SECONDARY.
- CONTRACTOR TO PROVIDE WEATHER PROOF METER RACK, CT'S, PT'S, AND METER BACKBOX PER CON ED SPECIFICATIONS.
- 6. WATT-HOUR DEMAND METER PROVIDED BY CON. ED.
- 7. CONTRACTOR TO PROVIDE (3) SETS OF (3) 350 MCM + (1) 2/0 GND IN 4° C. PER SET.
- 8. CONTRACTOR TO PROVIDE (2) SETS OF (3) 350 MCM + (1) 2/0 GND IN 4" C. PER SET.
- 9. CONTRACTOR TO PROVIDE WEATHERPROOF DISCONNECT WITH
- 1D. CONTRACTOR TO PROVIDE (4) #2 AWG, (1) #6 GND, 1 1/2°C.
- 12. PACKAGED SYSTEM PROVIDED BY CONTRACTOR'S SUBCONTRACTOR OR VENDOR.



7. COORDINATE.





COORDINATE ALL HARDWARE AND MOUNTING REQUIREMENTS WITH LOCAL UTILITY

TERMINAL SERVICE POLE DETAIL SCALE: NTS

ELECTRICAL RESISTANCE HEATING CERHD ELECTRICAL

HO. DATE BY PROJECT ARCH. DEPT. HORY SUP-

REVISIONS

URS Corporation

Group Consultants

NEW YORK STATE

DEPARTMENT OF

ENVIRONMENTAL

CONSERVATION

ALBANY, NEW YORK TESS

WEST SEDE

CORPORATION SITE

JAMAICA, QUEENS COUNTY

SITE NO. 2-41-026

OPERABLE UNIT NO. 1

(ON-SITE) DESIGN

SHEET TITLE		
OWNER'S PROJECT NUMBER PROJECT NUMBER		
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DATE	SCALE	
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ARCH/ENGR.		

TRANSFORMER PAD DETAIL

ELEVATION (LAKELAND PRECAST INC. #MC-100)

SCALE: NTS

SERVICE TRANSFORMER GROUNDING PLAN SCALE: NTS