

To:

Mr. David J. Chiusano Remedial Bureau E, Section A Div. Environmental Remediation

	NYSE 625 E		oor, Albany, NY 12233-7	7013	Re:	Station 24 Addendum #1	
We are sendin	g you:	☐ Enclosed	□ Under separate	cover via	☐ Mail	☐ Messenger, the following items:	
☐ shop d	rawings	□ prints	s 🗆 data sheets				
□ specifi	cations	□ sketc	hes 🗆 brochures				
		Our action re	lative to items submitte	d for approve	al has been	noted on the drawings.	
COPIES	PRE	PARED BY	REFERENCE NO.	DESCRIPTION			
1	1			Contracts SYSOPS-13G and -13E Addendum No. 1			
					_		
THESE ARE TR	RANSMIT	TED AS CHECKEI	D BELOW:				
☐ As requested		□ Approved			Resubmit copies for approval		
☐ For your use		$\ \square$ Approved as corrected			☐ Submit copies for distribution		
☐ For review & comment		☐ Revise and resu	$\ \square$ Revise and resubmit		Return corrected prints		
☐ For your information		□ Not approved					

104 Corporate Park Dr., Box 751

White Plains, NY 10604

P: 914.641.2954 F: 914.641.2404

Remarks:

Very truly yours,

Copies: J. Dydland- NYCDEP* File- 3175032/3.1.5d*

* Letter only

Seth J. Schneider, P.E.



CONSTRUCTION CONTRACT

New York City Department of Environmental Protection

59-17 Junction Boulevard Elmhurst, New York 11373

Emily Lloyd Commissioner

Steven W. Lawitts First Deputy Commissioner

Carol Fenves
Agency Chief Contracting Officer



ADDENDUM TO CONTRACT DOCUMENTS NUMBER 1

FOR FURNISHING ALL LABOR AND MATERIAL NECESSARY AND REQUIRED FOR:

Contract:

SYSOPS-13G STRUCTURES AND EQUIPMENT, AND

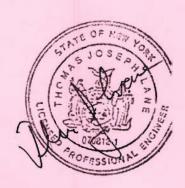
SYSOPS-13E ELECTRICAL

Description:

STATION 24 GROUNDWATER REMEDIATION PROJECT

MARCH 2007 Volume 1 of 1

Malcolm Pirnie, Inc.



CITY OF NEW YORK DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF WATER AND SEWER OPERATIONS

TO ALL BIDDERS FURNISHING ALL LABOR AND MATERIALS NECESSARY AND REQUIRED FOR:

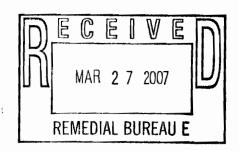
Station 24 Groundwater Remediation Project Contract SYSOPS-13G – Structures and Equipment Contract SYSOPS-13E - Electrical

This Addendum is issued for the purpose of amending the requirements of the Contract Documents and is hereby made a part of said Contract Documents to the same extent as though it were originally included therein.

The pages of this Addendum are numbered sequentially. All bidders should check this book carefully to verify that all pages are included. Should any pages be missing, notify the Department of Environmental Protection in writing as soon as possible.

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ADDENDUM NO. 1 SYSOPS-13G & 13E H:\3175032\08.0 BID ASSISTANCE\8.04 Addendum No. 1\02 Front End.doc Page i March 2007

 dated, and detached from the book and submitted by acknowledgement of receipt of, having read, and
Emily Lloyd Commissioner

NAME OF BIDDER	Station 24 Groundwater Remediation Project
Ву	
Date	Addendum to Contract Documents No. 1

CITY OF NEW YORK DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF WATER AND SEWER OPERATIONS

Station 24 Groundwater Remediation Project Contract SYSOPS-13G Structures & Equipment Contract SYSOPS-13E - Electrical

This addendum is issued for the purpose of amending the requirements of the Contract Documents and is hereby made a part of said Contract Documents to the same extent as though it were originally included therein.

BID POSTPONEMENT

The bid opening for Contracts SYSOPS-13G & 13E has been postponed. Sealed bids for this Contract will be received by the New York City Department of Environmental Protection (DEP) Contract Management Division, 59-17 Junction Boulevard, 17th Floor, Elmhurst, New York 11373, telephone (718) 595-3265 until **Wednesday**, **April 11**, 2007, 11:30 A.M. at which time and place, bids will be publicly opened and read.

The final date for questions has been postponed to Monday, March 26, 2007. Please submit all questions in writing via email or fax, to:

Mr. John Dydland
Project Manager
Bureau of Water & Sewer Operations
New York City Department of Environmental Protection
96-05 Horace Harding Expwy, Third Floor
Corona, New York 11368
Email: jdydland@dep.nyc.gov
Fax number: (718) 595-5342

and

Mr. Seth J. Schneider, P.E. Sr. Project Engineer Malcolm Pirnie, Inc. Box 751 White Plains, NY 10602

White Plains, NY 10602 Fax: (914) 641-2404

Email: SSchneider@Pirnie.com

ADDENDUM NO. 1 SYSOPS-13G & 13E

Page 1 March 2007

SPECIFICATIONS

- 1. Pages 119 to 130. Delete these pages in their entirety and replace with Attachment #1 (pages 119 to 130).
- 2. Page 144. After "E-4 BLOCK DIAGRAM AND MISCELLANEOUS DETAILS" insert the words "E-5 HEAT TRACING STAION 22 AND 52"
- 3. Page 183, Section 01120, Article 1.04.Add the following after 1.04.B.11.:
 - 12. Furnish and install complete heat tracing systems at Station 22 and Station 52.
- 4. Page 183, Section 1120 Article 1.05, paragraph B. Add the following after 1.05.B.1.:
 - 2. Furnish and install conduit and wiring for heat tracing systems at Station 22 and Station 52.
- 5. Page 195, Section 01270, Article 1.05. Add the following after 1.05.C.11.a.1.:
 - 2) Meetings with the NYSDEC will take place at the Station 24 site.
- 6. Page 221, Section 01355, Article 1.04, paragraph A.2. Add the following sentence:
 - "Contractors shall notify Engineer immediately of any discovery of asbestos or potentially asbestos-containing material, or material that is suspected of being asbestos or potentially asbestos-containing material."
- 7. Page 239, Section 01410 Article 1.04, paragraph A. Add the following sentence to the end of paragraph A:
 - "Building Permit shall be obtained by NYCDEP prior to the Notice to Commence Work."
- 8. Page 240, Section 01410 Article 1,04, Article C. Add the following sentence to the end of paragraph C:
 - "The SPDES Permit Equivalent for the Station 24 Remediation Project is attached at the end of Specification 13530G."
- 9. Page 264. Section 01550 Article 1.06. Add the following after 1.06:

1.07 LIQUIDATED DAMAGES (VEHICLE PROTOCOLS)

- A. The work to be performed by the Contractor hereunder must be performed in compliance with federal and state laws, regulations and court orders.
- В. Accordingly, it is hereby agreed by the Contractor and the City that proper performance of all trucking operations related to this Contract in strict accordance with the provisions set forth herein concerning truck routes and truck identification is material, and in view of the difficulty of adequately ascertaining the losses or damages which the City would suffer by reason of the Contractor's inadequacy or failure to comply strictly with such provisions, it is further agreed that liquidated damages shall be due and payable to the City by the Contractor as set forth herein. Such liquidated damages shall not be deemed a penalty. Such liquidated damages may be assessed by the City for such inadequacy or failure even in the event of any ensuing termination by the City or of abandonment by the Contractor. Liquidated damages received by the City hereunder are not intended to be nor shall they be treated as either a partial or full waiver or discharge of the City's right to indemnification or of the Contractor's obligation to indemnify the City, or to any other remedy provided for by the contract or by law.
- C. The Comptroller will deduct and retain out of the moneys which may become due to the Contractor hereunder, the amount of such liquidated damages; and in case the amount which may become due hereunder shall be less than the amount of liquidated damages assessed by the City, the Contractor shall be liable to pay the difference upon demand by the Comptroller.
- D. Such liquidated damages in the amount(s) set forth in Schedule "A" may be assessed by the City with respect to each vehicle for each instance or calendar day where:
 - 1. A truck or tractor-trailer utilized by the Contractor or any subcontractor or material man is found to have deviated from the approved route(s) to and from the site, unless Contractor shall show good cause for such variation to the Residents Engineer's satisfaction; or
 - A truck or tractor-trailer utilized by the Contractor or any subcontractor or material man which does not bear approved truck identification arrives to enter the site (except on such vehicle's initial visit, and then only with the approval of the Resident

- Engineer and provided that such vehicle shall hereupon be supplied with such signage by the Contractor); or
- 3. A truck or tractor-trailer utilized by the Contractor or any subcontractor or material man which does not bear approved truck identification is found at or upon the site at any time, or such vehicle lacking approved truck identification is found to have traversed or parked upon local streets or routes within two miles of the sites (except on such vehicle's initial visit); or
- 4. A truck or tractor-trailer utilized by the Contractor or any subcontractor or material man which switches identifications signs with another vehicle.
- 10. Page 718, Section 13530G, Article 2.06, paragraph C.3. In the second sentence delete the symbol "∀" and replace with "±".
- 11. Page 719, Section 13530G, Article 2.07, paragraph C. Revise the third sentence to "The Contractor shall exhaust the supply of GAC available at the sites listed above for the initial fill of the vessels at Station 24 and for the first three months of operation before purchasing new GAC."
- 12. Page 737, Section 13900G, Article 1.05. Add the following after 1.05.:
 - 1.06 PAYMENT
 - A. Payment for the differential of the actual well depth to the well depth shown on the Contract Drawings shall be included under Contract Item G-UP-1 in accordance with Specification 01270.
- 13. Page 861-862, Section 15120G. Delete these pages in their entirety and replace with new pages 861-862 in Attachment #2.
- 14. Page 898, Section 15771G, Article 2.03, paragraph C.10. Delete "10." in the first sentence.
- 15. Page 901-902, Section 15771G. Delete these pages in their entirety and replace with new pages 901-902 in Attachment #3.

CONTRACT DRAWINGS

CONTRACT SYSOPS-13G – STRUCTURES & EQUIPMENT

- 1. Drawing C-01. Remove existing drawing and replace with new Drawing C-01.
- 2. Drawing C-02. Remove existing drawing and replace with new Drawing C-02.
- 3. Drawing C-02, GENERAL UTILITY NOTES. Add the following after note 4:
 - 5. The 12" water line will remain in service for the duration of the project."
- 4. Drawing C-04. Remove existing drawing and replace with new Drawing C-04.
- 5. Drawing M-02, PARTIAL PLAN. The revise the symbol for section 1, sheet M01 to section 1 sheet M02.
- 6. Drawing M-02, PARTIAL PLAN. The revise the symbol for section 2, sheet M01 to section 2 sheet M02.
- 7. Drawing M-02, SECTION 2. The revise the note "BAFFLE (SEE DETAIL ON SHEET C-02)" to "BAFFLE (SEE DETAIL ON SHEET C-04).
- 8. Drawing M-02, SECTION 2. The revise the note "BLOW-OFF SUMP SEE SHEET C-02" to "BLOW-OFF SUMP SEE SHEET C-04".
- 9. Drawing M-05, Note 10. Add the words "AND INSULATED" after the word "TRACED".
- 10. Drawing M-06. Add the following note after NOTE 5:
 - 6. DEPTH OF WELL PUMP SHALL BE AS DIRECTED BY ENGINEER. FOR BIDDING PURPOSES, CONTRACTOR SHALL ASSUME WELL PUMP IS SET TO THE BOTTOM OF THE SCREENED WELL SECTION.
- 11. Drawing M-07, TYPICAL GAC SYSTEM PROCESS SCHEMATIC, NOTE 1. Add the words "AND INSULATED" after the word "TRACED
- 12. Drawing M-07, TYPICAL GAC SYSTEM PROCESS SCHEMATIC. Revise the note "REMAINING PIPING TO BE BURIED END HEAT TRACING" to read the following "REMAINING PIPING TO BE BURIED END HEAT TRACING AND INSULATION"
- 13. Drawing S-01. Remove existing drawing and replace with new Drawing S-01.

- 14. Drawing S-02. Add the Following after NOTE 5:
 - 6. CONTRACTOR SHALL PROVIDE HEAVY DUTY CONCRETE TOPPING FOR THE ENTIRE BOOSTER PUMP BUILDING FLOOR. CONCRETE TOPPING SHALL BE STONCLAD HT WITH CLEAR STONKOTE HT4 TOPCOAT BY STONHARD, INCORPORATED, PART OF THE STONCOR GROUP OR APPROVED EQUAL. CONCRETE TOPPING SHALL BE INSTALLED AS PER MANUFACTURERS RECOMMENDATIONS.
- 15. Drawing S-03. The 8'-0" dimension in the near the existing bollard in the PLAN TRUCK CONTAINMENT AREA should be labeled "EXISTING RAMP".
- 16. Drawing S-05. Remove existing drawing and replace with new Drawing S-05.

CONTRACT SYSOPS-13E - ELECTRICAL

- 1. Cover Sheet and Index of Drawings. Remove existing drawing and replace with new Cover Sheet ad Index of Drawings.
- 2. Drawing E-04. After drawing E-04, insert Drawing E-05.

ATTACHMENT 1

NO TEXT ON THIS PAGE

(GENERAL CONDITIONS TO CONSTRUCTION CONTRACT)

(GENERAL CONDITIONS OTHER THAN ARTICLE 22)

Contract SYSOPS-13G

Reference	Item	Requirements
Section 28 of Information for Bidders & Article 19 of Contract	Bid Security (Bond or Certified Check)	5% of Bid
Section 28 of Information for Bidders Articles 8 and 14 of Contract	Performance Bond Payment (Completion/Labor & Material) Bond Period of Performance	
Article 15 of Contract	Liquidated Damages	None
Detailed Specifications - Section 01550: Vehicular Access and Parking	Liquidated Damages (Vehicle Protocols)	\$\frac{100}{\text{per day or instance, per vehicle, where: (1) a truck deviates from approved route(s); or, (2) a truck without approved truck identification enters the site; or, (3) a truck without approved truck identification is found upon the site, or parks upon or traverses local streets near the site; or (4) truck identification signs are switched between vehicles. \text{DETAILS: SEE SPECIFICATION 01550-1.07 "LIQUIDATED DAMAGES (Vehicle Protocols)"}}
Detailed Specifications Section 01334	Liquidated Damages (Microfilm Requirements)	See Article 1.8 of Detailed Specification 01334
Article 17 of Contract	Subcontracting	Not to exceed 40 % of Bid
Article 21 of Contract	Retained Percentage	5_% of Voucher
Article 24 of Contract	Maintenance and Guaranty Security	% of Adjusted Contract Price
Article 24 of Contract	Guaranty Period	
Article 42 of Contract	Partial Payment	will be allowed will not be allowed

(GENERAL CONDITIONS TO CONSTRUCTION CONTRACT)

(GENERAL CONDITIONS RELATING TO ARTICLE 22 -- INSURANCE)

Contract SYSOPS-13G

Insurance indicated by a blackened box (\blacksquare) or by X in a \square to left will be required under this contract

Types of Insurance (per Article 22 in its entirety, including	glisted paragraph)	Minimum Limits and Special Conditions		
Commercial General Liability	Art. 22.1.1	\$2,000,000 per occurrence		
		\$4,000,000 aggregate (applicable separately to this Project)		
		Additional Insureds: 1. City of New York, including its officials and employees.		
■ Workers' Compensation	Art. 22.1.2	Workers' Compensation: Statutory per New York		
■ Disability Benefits Insurance	Art. 22.1.2	State law without regard to jurisdiction		
■ Employers' Liability	Art. 22.1.3	Disability Benefits Insurance: Statutory per New		
☐ Jones Act	Art. 22.1.4	York State law without regard to jurisdiction		
☐ U.S. Longshoremen's and Harbor \	Vorkers	Employers' Liability: \$1,000,000 each accident		
Compensation Act	Art. 22.1.4			
■ Builders' Risk	Art. 22.1.5	100 % of total value of Work		
		City of New York and the Contractor named as Loss Payee for the Work in order of precedence, as their interests may appear		

(GENERAL CONDITIONS TO CONSTRUCTION CONTRACT)

(GENERAL CONDITIONS RELATING TO ARTICLE 22 -- INSURANCE)

Contract SYSOPS-13G

(PART I CONTINUED)

Insurance indicated by a blackened box (\blacksquare) or by (X) in \square to left will be required under this contract

Types of Insurance (per Article 22 in its entirety, including listed paragraph)	Minimum Limits and Special Conditions		
■ Comprehensive Business Auto Coverage Art. 22.1.6	\$2,000,000 per accident If vehicles are used for transporting hazardous materials, the Contractor shall provide pollution liability broadened coverage for covered autos (endorsement CA 99 48) as well as proof of MCS 90		
■Pollution/Environmental Liability Art. 22.1.7	\$\frac{1,000,000}{2,000,000} \text{per occurrence} \\ \frac{\$2,000,000}{2,000} \text{aggregate} \\ Additional Insureds: 1. City of New York, including its officials and employees, and 2		
☐ Marine Protection and Indemnity Art. 22.1.8(a)	\$ per occurrence \$ aggregate Additional Insureds: 1. City of New York, including its officials and employees, and 2 3		

(GENERAL CONDITIONS TO CONSTRUCTION CONTRACT)

(GENERAL CONDITIONS RELATING TO ARTICLE 22 -- INSURANCE)

Contract SYSOPS-13G

(PART I CONTINUED)

Insurance indicated by a blackened box (\blacksquare) or by (X) in \square to left will be required under this contract

☐ Ship Repairers Legal Liability	Art. 22.1.8(b)	\$each occurrence [Contracting agency to fill in total value of City vessels involved]	
☐ Collision Liability/Towers Liability	Art. 22.1.8(c)	\$ per occurrence \$ aggregate Additional Insureds: 1. City of New York, including its officials and employees, and 2 3	
☐ Marine Pollution Liability	Art. 22.1.8(d)	\$each occurrence Additional Insureds: 1. City of New York, including its officials and employees, and 2 3	
[OTHER]	Art. 22.1.9	\$ per occurrence	
☐ Railroad Protective Liability policy		\$aggregate	
- ISO Form CG 00 35 11 85 or equiv	alent	Additional Insureds: 1. City of New York, including its officials and employees, and 2	

(GENERAL CONDITIONS TO CONSTRUCTION CONTRACT) (GENERAL CONDITIONS RELATING TO ARTICLE 22 -- INSURANCE)

Contract SYSOPS-13G

PART II. BROKER'S CERTIFICATION

[Pursuant to Article 22.3.1(a) of the **Contract**, every Certificate of Insurance must be accompanied by either the following certification by the broker setting forth the following text and required information and signatures or complete copies of all policies referenced in the Certificate of Insurance. In the absence of completed policies, binders are acceptable.]

CERTIFICATION BY BROKER

	[Name of broker (typewritten)]
	[Address of broker (typewritten)]
	[Signature of authorized official or broker]
	[Name and title of authorized official (typewritten
Sworn to before me this, 200_	

(GENERAL CONDITIONS TO CONSTRUCTION CONTRACT) (GENERAL CONDITIONS RELATING TO ARTICLE 22 -- INSURANCE) Contract SYSOPS-13G

PART III. ADDRESS OF COMMISSIONER

Wherever reference is made in Article 7 or Article 22 to documents to be sent to the **Commissioner** (e.g., notices, filings, or submissions), such documents shall be sent to the address set forth below or, in the absence of such address, to the **Commissioner's** address as provided elsewhere in this **Contract**.

Department of Environmental Protection
Agency Chief Contracting Officer
ATTN: Contract Management Office (Insurance), 17TH FLOOR
59-17 Junction Boulevard
Flushing, New York 11373

(GENERAL CONDITIONS TO CONSTRUCTION CONTRACT)

(GENERAL CONDITIONS OTHER THAN ARTICLE 22)

Contract SYSOPS-13E

Reference	Item	Requirements
Section 28 of Information for Bidders & Article 19 of Contract	Bid Security (Bond or Certified Check)	
Section 28 of Information for Bidders	Performance Bond Payment (Completion/Labor & Material) Bond	
Articles 8 and 14 of Contract	Period of Performance	370 Consecutive Calendar Days (CCDs)
Article 15 of Contract	Liquidated Damages	None
Detailed Specifications - Section 01550: Vehicular Access and Parking	Liquidated Damages (Vehicle Protocols)	\$ 100 per day or instance, per vehicle, where: (1) a truck deviates from approved route(s); or, (2) a truck without approved truck identification enters the site; or, (3) a truck without approved truck identification is found upon the site, or parks upon or traverses local streets near the site; or (4) truck identification signs are switched between vehicles. DETAILS: SEE SPECIFICATION 01550-1.07 "LIQUIDATED DAMAGES (Vehicle Protocols)"
Detailed Specifications Section 01334	Liquidated Damages (Microfilm Requirements)	See Article 1.8 of Detailed Specification 01334
Article 17 of Contract	Subcontracting	Not to exceed 40 % of Bid
Article 21 of Contract	Retained Percentage	5% of Voucher
Article 24 of Contract	Maintenance and Guaranty Security	
Article 24 of Contract	Guaranty Period	Year Longer periods for components of the work as set forth in specifications.
Article 42 of Contract	Partial Payment	will be allowed will not be allowed

(GENERAL CONDITIONS TO CONSTRUCTION CONTRACT)

(GENERAL CONDITIONS RELATING TO ARTICLE 22 -- INSURANCE)

Contract SYSOPS-13E

Insurance indicated by a blackened box (\blacksquare) or by X in a \square to left will be required under this contract

Types of Insurance (per Article 22 in its entirety, including	g listed paragraph)	Minimum Limits and Special Conditions		
Commercial General Liability	Art. 22.1.1	\$2,000,000 per occurrence \$4,000,000 aggregate (applicable separately to this Project)		
		Additional Insureds: 1. City of New York, including its officials and employees.		
 Workers' Compensation Disability Benefits Insurance Employers' Liability Jones Act 	Art. 22.1.2 Art. 22.1.2 Art. 22.1.3 Art. 22.1.4	Workers' Compensation: Statutory per New Yo State law without regard to jurisdiction Disability Benefits Insurance: Statutory per New York State law without regard to jurisdiction		
☐ U.S. Longshoremen's and Harbor Workers Compensation Act Art. 22.1.4		Employers' Liability: \$1,000,000 each accident		
Builders' Risk	Art. 22.1.5	100 % of total value of Work City of New York and the Contractor named as Loss Payee for the Work in order of precedence, as their interests may appear		

(GENERAL CONDITIONS TO CONSTRUCTION CONTRACT) (GENERAL CONDITIONS RELATING TO ARTICLE 22 -- INSURANCE)

Contract SYSOPS-13E

(PART I CONTINUED)

Insurance indicated by	a blackened box	() or by (X) in	☐ to left will be re	quired under this contract
insurance mulcated by	a biackejjeu box		LI TO JELL WILL DE LE	quired under tills contract

Types of Insurance (per Article 22 in its entirety, including listed paragraph)	Minimum Limits and Special Conditions		
■ Comprehensive Business Auto Coverage Art. 22.1.6	\$2,000,000 per accident If vehicles are used for transporting hazardous materials, the Contractor shall provide pollution liability broadened coverage for covered autos (endorsement CA 99 48) as well as proof of MCS 90		
■Pollution/Environmental Liability Art. 22.1.7	\$ 1,000.000 per occurrence \$ 2,000,000 aggregate Additional Insureds: 1. City of New York, including its officials and employees, and 2 3		
☐ Marine Protection and Indemnity Art. 22.1.8(a)	\$ per occurrence \$ aggregate Additional Insureds: 1. City of New York, including its officials and employees, and 2 3		

(GENERAL CONDITIONS TO CONSTRUCTION CONTRACT)

(GENERAL CONDITIONS RELATING TO ARTICLE 22 -- INSURANCE)

Contract SYSOPS-13E

(PART I CONTINUED)

Insurance indicated by a blackened box (\blacksquare) or by (X) in \square to left will be required under this contract

☐ Ship Repairers Legal Liability	Art. 22.1.8(b)	\$each occurrence [Contracting agency to fill in total value of City vessels involved]
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[OTHER]	Art. 22.1.9	\$per occurrence
☐ Railroad Protective Liability policy		\$aggregate
- ISO Form CG 00 35 11 85 or equiv	alent	Additional Insureds: 1. City of New York, including its officials and employees, and 2

(GENERAL CONDITIONS TO CONSTRUCTION CONTRACT) (GENERAL CONDITIONS RELATING TO ARTICLE 22 -- INSURANCE)

Contract SYSOPS-13E

PART II. BROKER'S CERTIFICATION

[Pursuant to Article 22.3.1(a) of the Contract, every Certificate of Insurance must be accompanied by either the following certification by the broker setting forth the following text and required information and signatures or complete copies of all policies referenced in the Certificate of Insurance. In the absence of completed policies, binders are acceptable.]

CERTIFICATION BY BROKER

Insurance is accurate in all mat	respects, and that the described insurance is effective as of the date
Certification.	
	[Name of broker (typewritten)]
	[Address of broker (typewritten)]
	[Signature of authorized official or broker]
	[Name and title of authorized official (typewritten)
Sworn to before me this, 20	

(GENERAL CONDITIONS TO CONSTRUCTION CONTRACT) (GENERAL CONDITIONS RELATING TO ARTICLE 22 -- INSURANCE)

Contract SYSOPS-13E

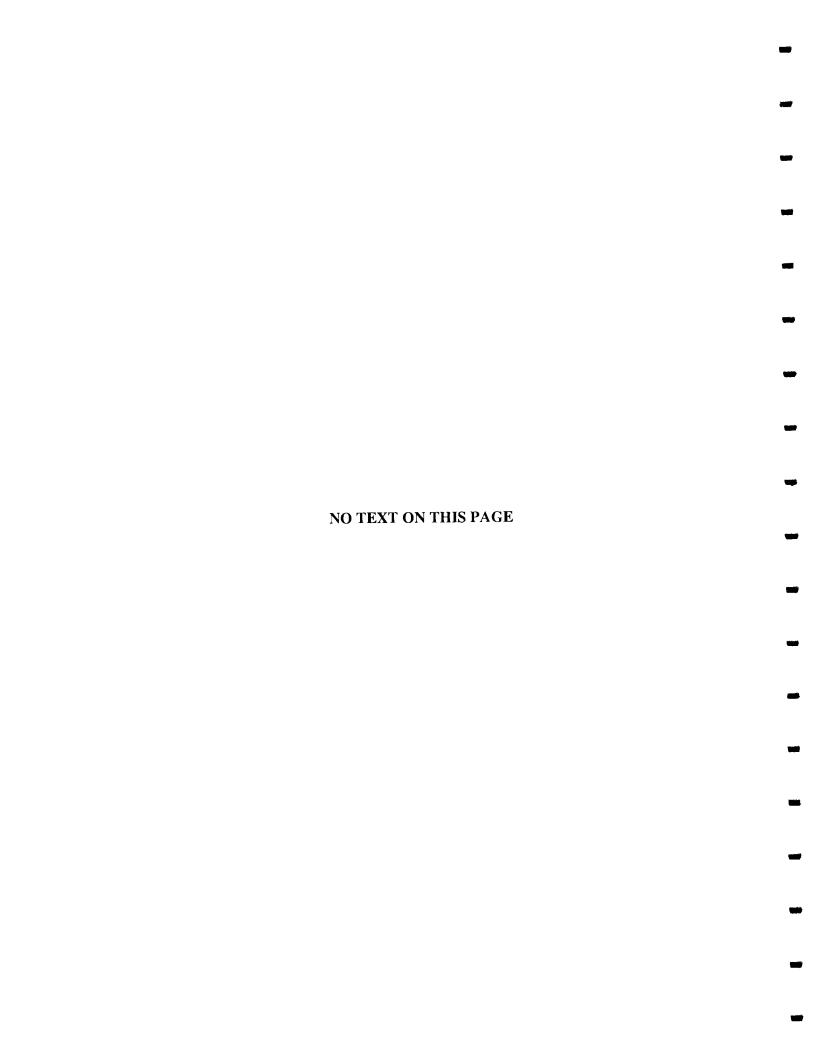
PART III. ADDRESS OF COMMISSIONER

Wherever reference is made in Article 7 or Article 22 to documents to be sent to the **Commissioner** (e.g., notices, filings, or submissions), such documents shall be sent to the address set forth below or, in the absence of such address, to the **Commissioner's** address as provided elsewhere in this **Contract**.

Department of Environmental Protection
Agency Chief Contracting Officer
ATTN: Contract Management Office (Insurance), 17TH FLOOR
59-17 Junction Boulevard
Flushing, New York 11373

130

ATTACHMENT 2			
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SPECIFICATION 15120G - PIPING AND VALVE SCHEDULES SYSOPS-13G

INTERIOR AND EXPOSED PIPING SCHEDULE 15120G-2

Service						Design	Test	
Name / Location	Code	Material	Wall Thickness / Schedule / Class	Type of Joint / Fitting	Lining	Pressure (psig)	Pressure (psig)	Remarks
Raw Water	RW	DI	CL 56	FLG	CL	150	300	See Notes 4,5
City Water	CW	DI	CL 56	FLG	CL	70	100	See Note 4
Backwash Supply	BWS	DI	CL 56	FLG	CL	150	300	See Note 4
Backwash Waste	BWW	DI	CL 56	FLG	CL	150	300	See Note 4
Treated Water	TW	DI	CL 56	FLG	CL	150	300	See Note 4,5
Service Water	SVW	DI	CL 56	FLG	CL	150	300	See Note 4
Chemcial Tank Fill	SA	PVC	SCH 80	sw		60	125	
Condensate Drain	CD	PVC	SCH 80	sw		60	125	
Metering Pump Suction	SA	PVC	SCH 80	sw		60	125	
Stilling Wells	STW	PVC	SCH 80	sw		60	125	
Sequestering Agent Containment Pipe	SAC	PVC	SCH 80 / DW	sw		60	125	
Metering Pump Discharge	SA	PET	STD	ITF		60		
Recovery Well Chemical Lines	SA	PET	STD	ITF		60		
Refrigerant Suction	RS	CU	0.042	BZ		300	600	
Refrigerant Liquid	RL	CU	0.032	BZ		300	600	

General Notes:

- 1. The Contractor shall submit a complete pipe schedule for all piping included under this Contract with similar information for approval. All pumped systems shall be tested at a minimum of 10 psig above the maximum shut-off head unless otherwise specified above. Maximum shut-off head shall be indicated on the schedules submitted by the Contractor.
- 2. All connections to valves and equipment shall be made with flanged joints.
- 3. For modifications to existing piping not identified above, provide materials in-kind.
- 4. Finish with epoxy primer coat.
- 5. All PVC connections to DI pipe shall be the Flanged type.

SPECIFICATION 15120G – PIPING AND VALVE SCHEDULES SYSOPS-13G

VALVES - SMALLER THAN 4 INCHES SCHEDULE 15120G-3

Service					Rated		
Name	Code	Location	Body	Type of Joint	Pressure (psig)	Operator	Remarks
GAC Air Release Valve	ARV	GAC Vessel Piping Highpoints	CI	THD	150	Float Actuated	
Tank Fill Isolation Valve	BLV	Truck Containment Area	PVC	SW	150	Manuai	
Truck Delivery Drain Valve	BLV	Truck Containment Area	PVC	SW	150	Manual	
Tank Fill Drain Valve	BLV	Truck Containment Area	PVC	sw	150	Manual	
Metering Pump Isolation	BLV	Garage No. 2	PVC	sw	150	Manual	
Recovery Well Chemical Selector	BLV	Recovery Well Pump Enclosures	PVC	sw	150	Manual	
Well Pump Discharge	BLV	Recovery Well Pump Enclosures	BR	FLG	600 (2)	Manual	
Hose Bibb	BLV	Booster Pump Bldg	BR	THD	600 (2)	Manual	
Emer. Eyewash/Shower	BLV	Chemical Storage	BR	THD	600 (2)	Manual	
City Water Air Valve	CAV	Booster Pump Bldg	CI	FLG	150	Float Actuated	
Tank Fill Check Valve	TCV	Truck Containment Area	PVC	sw	150		

General Notes:

- 1. SWP = Steam Working Pressure.
- 2. WOG = Water, Oil, Gas.
- 3. Valves shall be tested to 1.5 x the rated pressure.

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•	
•	
•	ATTACHMENT 3
•	

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SPECIFICATION 15771G – ELECTRIC HEAT TRACING SYSTEM SYSOPS-13G

- c. 4" containment pipe
- d. 1" metering pump suction lines
- e. 1/2" chemical piping
- D. Potable Water Piping in Station 24 Garage No. 2
 - 1. Heat trace cable shall be 5-watts per linear foot.
 - 2. The following piping systems shall be heat traced:
 - a. 1 1/4" cold water piping
- E. GAC Systems at Station 22 and Station 52
 - 1. The Contractor is advised that one (1) system of two (2) GAC vessels exists at both Station 22 and Station 52. As indicated in Specification 01120, the Contractor shall provide heat tracing of all exterior GAC system piping at Stations 22 and 52. The extents of the heat tracing and approximate dimensions are given in Figures 1 and 2, below. Shading indicates piping to be heat traced. All heat tracing equipment and procedures shall be in accordance with this Specification. Heat trace cable shall be 8-watts per linear foot.

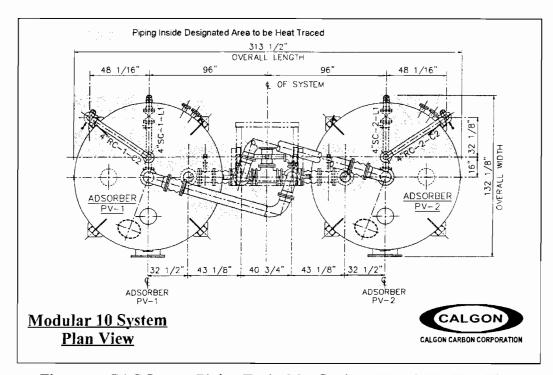


Figure 1: GAC System Piping Typical for Stations 22 and 52 - Plan View

SPECIFICATION 15771G – ELECTRIC HEAT TRACING SYSTEM SYSOPS-13G

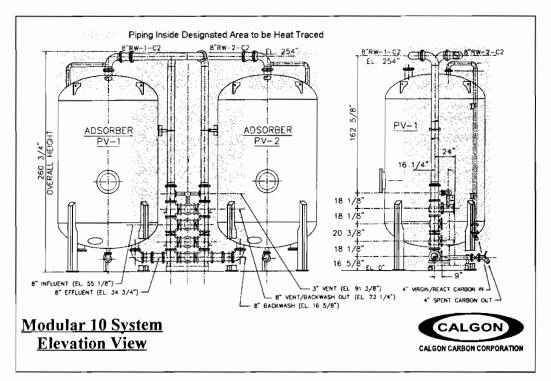


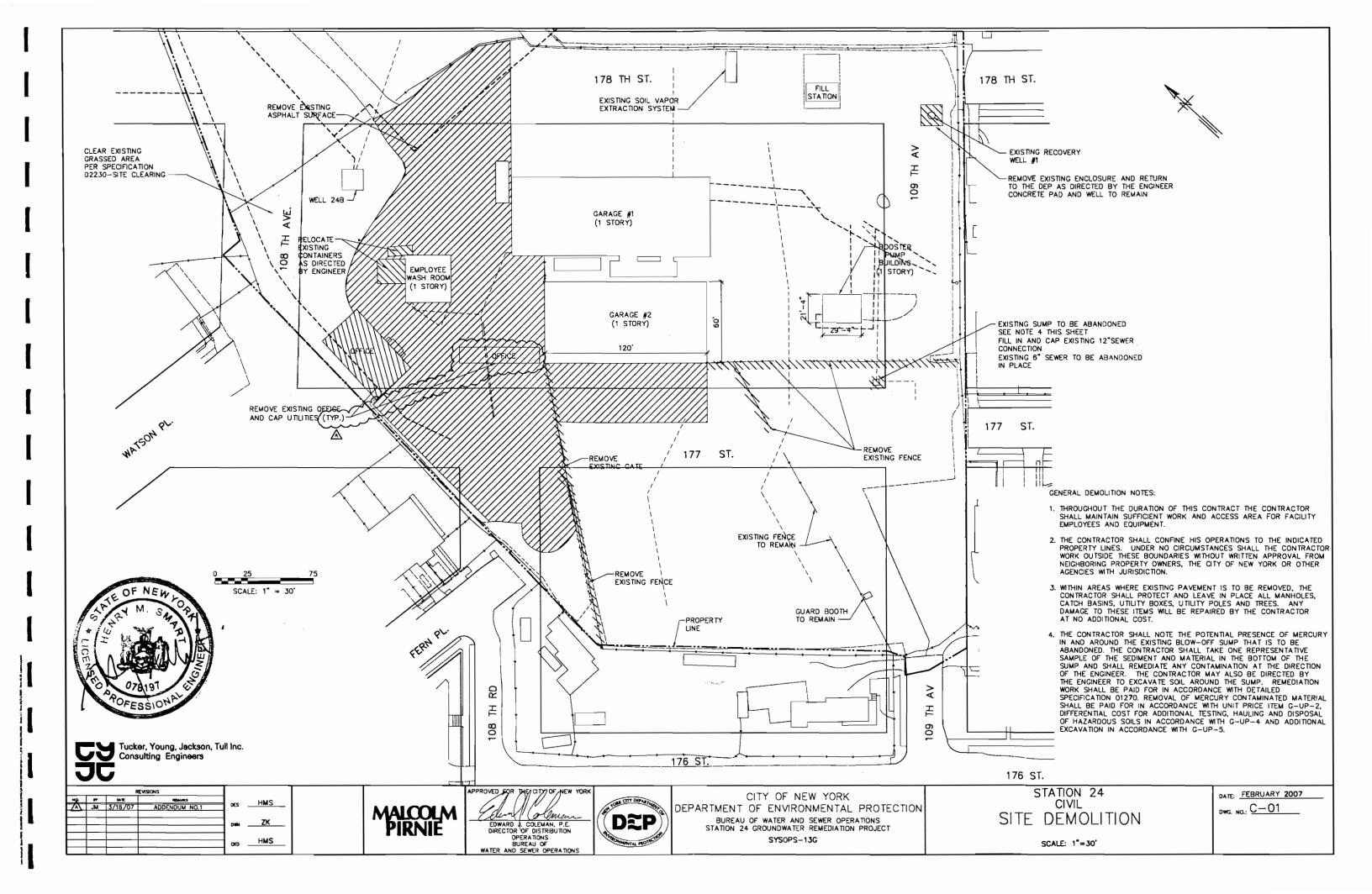
Figure 2: GAC System Piping Typical for Stations 22 and 52 - Elevations

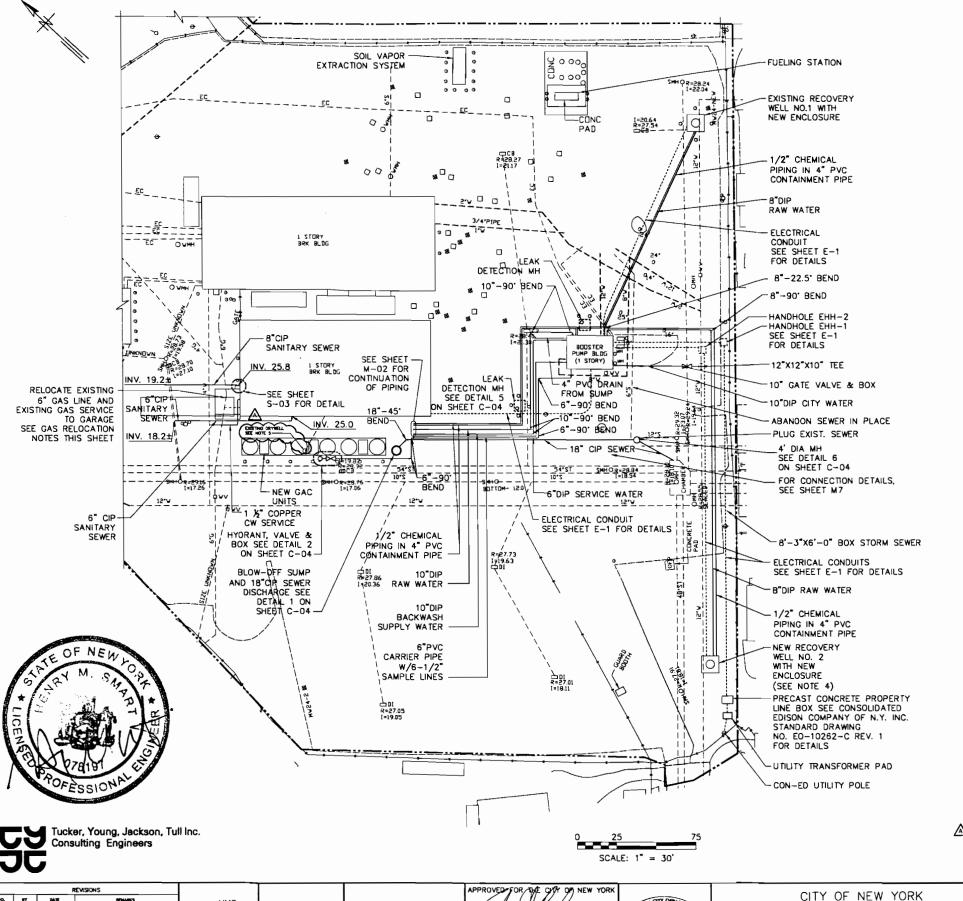
- 3.04 CLEANING
 - A. Clean tar, cement or other dirt from the heat trace cable.
 - B. Remove debris and other waste material resulting from installation.
- 3.05 ADJUSTMENTS
 - A. Check control module functions.
 - B. Check thermostat and wiring connections to heater cable.

* * * * *

DRAWINGS

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GAS RELOCATION NOTES:

- PRIOR TO START OF WORK, KEYSPAN ENERGY (KE) WILL CONFIRM SIZE, LOCATION, AND TYPE OF GAS SERVICE TO THE BUILDING BASED ON INFORMATION PROVIDED AT A SITE VISIT BY KE.
- 2. ALL GAS WORK SHALL CONFORM TO THE LATEST REQUIREMENTS OF KE.
- 3. ALL EXCAVATION TO BE DONE BY THE CONTRACTOR AS DIRECTED BY KE.
- 4. A MINIMUM OF TWO TEST PITS SHALL BE DUG IN ORDER TO ASCERTAIN EXACT LOCATIONS, COVER AND INVERT ELEVATIONS, CLEARANCE, ALIGNMENT AND OPERATING STATUS OF EXISTING GAS FACILITIES. CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHEN EXCAVATING IN THE VICINITY OF ANY GAS FACILITY. HAND EXCAVATION SHALL BE PERFORMED TO LOCATE ALL GAS FACILITIES.
- 5. DEPTH OF EXCAVATION TO BE AT LEAST 18" BELOW THE BOTTOM OF THE GAS FACILITY.
- 6. ALL PERMANENT PIPE FITTINGS, AND TIE—IN PIECES, ANODES AND ACCOMPANYING BOXES SHALL BE SUPPLIED BY KE AND PICKED UP BY THE CONTRACTOR AT A KE STORAGE YARD. CONTRACTOR SHALL DELIVER ALL MATERIAL TO JOB SITE. CONTRACTOR SHALL CONTACT KE TO DETERMINE LOCATION OF KE STORAGE YARD.
- 7. ALL COATING OF PIPE, FITTINGS ETC., SHALL BE DONE BY KE.
- 8. ALL LIVE GAS WORK TO BE PERFORMED BY KE.
- 9. CONTRACTOR SHALL BE RESPONSIBLE FOR SUPPORTING AND PROTECTING ALL PERMANENT GAS FACILITIES PER KE APPROVAL.
- 10. ALL PITS SHALL BE EXCAVATED PER STANDARDS OF KE WITH SHEETING, DECKING OR PLATING FOR INSTALLATION OF BAG HOLES WHICH SHALL BE ACCESSIBLE AT ALL TIMES. LOCATION AND SIZE TO BE DETERMINED BY KE.
- 11. KE SHALL PERFORM A PIPE TO SOIL VOLTAGE CHECK, A COATING RESISTANCE TEST OF ALL PIPES, AND CHECK INSULATION BEFORE BACKFILLING. SHOULD ANY TEST FAIL KE OR THE CONTRACTOR UNDER DIRECTION FROM KE CAN MAKE NECESSARY CORRECTIONS.
- 12. ONLY WELDERS CERTIFIED BY KE OR SUPPLIED BY KE ARE ALLOWED TO WELD ON KE GAS FACILITIES.
- UNDER SPECIAL CONDITIONS, TYPES OF CONSTRUCTION SHOWN ON THIS DWG. MAY BE MODIFIED UPON WRITTEN APPROVAL BY KE.
- 14. CONTRACTOR SHALL NOTIFY KE A MINIMUM OF FIVE BUSINESS DAYS BEFORE EXPOSING ANY GAS FACILITY. ALL GAS FACILITIES THAT ARE EXPOSED ARE TO BE EXAMINED BY KE.
- 15. THE NOMINAL MINIMUM PIPE COVER FOR GAS FACILITIES SHALL BE 36 INCHES. WHERE COVER IS LESS THAN 24 INCHES THE PIPE SHALL BE PROTECTED BY 1/2 INCH STEEL PLATES ACROSS THE FULL WIDTH OF THE TRENCH SET 4 INCHES MINIMUM ABOVE THE PIPE WITH 2 INCHES OVERLAP OF PLATE SECTIONS.
- 16. DAMAGE TO ANY GAS HARDWARE OR OTHER GAS RELATED MATERIAL SHALL BE INSPECTED BY KE.
- 17. IF APPLICABLE CONTRACTOR SHALL REMOVE AND REINSTALL EXISTING OR INSTALL NEW GAS HARDWARE TO PROPOSED GRADE AS PER KE SPECIFICATIONS.
- 18. CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL ABANDONED CAST IRON AND OR STEEL GAS PIPE.
- 19. CONTRACTOR SHALL NOTIFY KE TO REMOVE ALL COAL TAR WRAPPED PIPE TO APPROVED DISPOSAL SITE.

GENERAL UTILITY NOTES:

- EXISTING UTILITY LOCATIONS, SIZES AND ELEVATIONS ARE INTENDED ONLY TO INDICATE THE EXISTENCE
 OF SUCH UTILITIES IN THE AREAS SHOWN. BEFORE PROCEEDING WITH THE WORK, THE CONTRACTOR
 SHALL VERIFY UTILITY LOCATIONS AND NOTIFY ENGINEER OF ANY DISCREPANCIES
- 2. ALL UTILITY INVERT ELEVATIONS SHOWN ARE REFERENCED TO NAVD 88 VERTICAL DATUM
- 3. ALL WATER SERVICE CONNECTION WORK SHALL BE PERFORMED IN ACCORDANCE WITH RULES AND REGULATIONS AS STIPULATED UNDER SECTION 150 OF NYC BUREAU OF WATER AND SEWER OPERATIONS, GOVERNING THE USE AND SUPPLY OF WATER, CITY OF NEW YORK.
- 4. THE CONTRACTOR SHALL FIELD VERIFY THE LOCATION OF THE EXISTING 12 INCH WATER LINE PRIOR TO CONSTRUCTING THE NEW RECOVERY WELL.
- 5. CONTRACTOR SHALL REMOVE MATERIAL FROM EXISTING DRYWELL, BACKFILL WITH CLEAN FILL AND COVER, MATERIAL TO BE REMOVED FROM DRYWELL SHALL BE TESTED IN ACCORDANCE WITH SPECIFICATION 02106.

MALCOLM PIRNIE EDWARD J. COLEMAN, P.E.
DIRECTOR OF DISTRIBUTION
OPERATIONS
BUREAU OF
WATER AND SEWER OPERATIONS



DEPARTMENT OF ENVIRONMENTAL PROTECTION

BUREAU OF WATER AND SEWER OPERATIONS

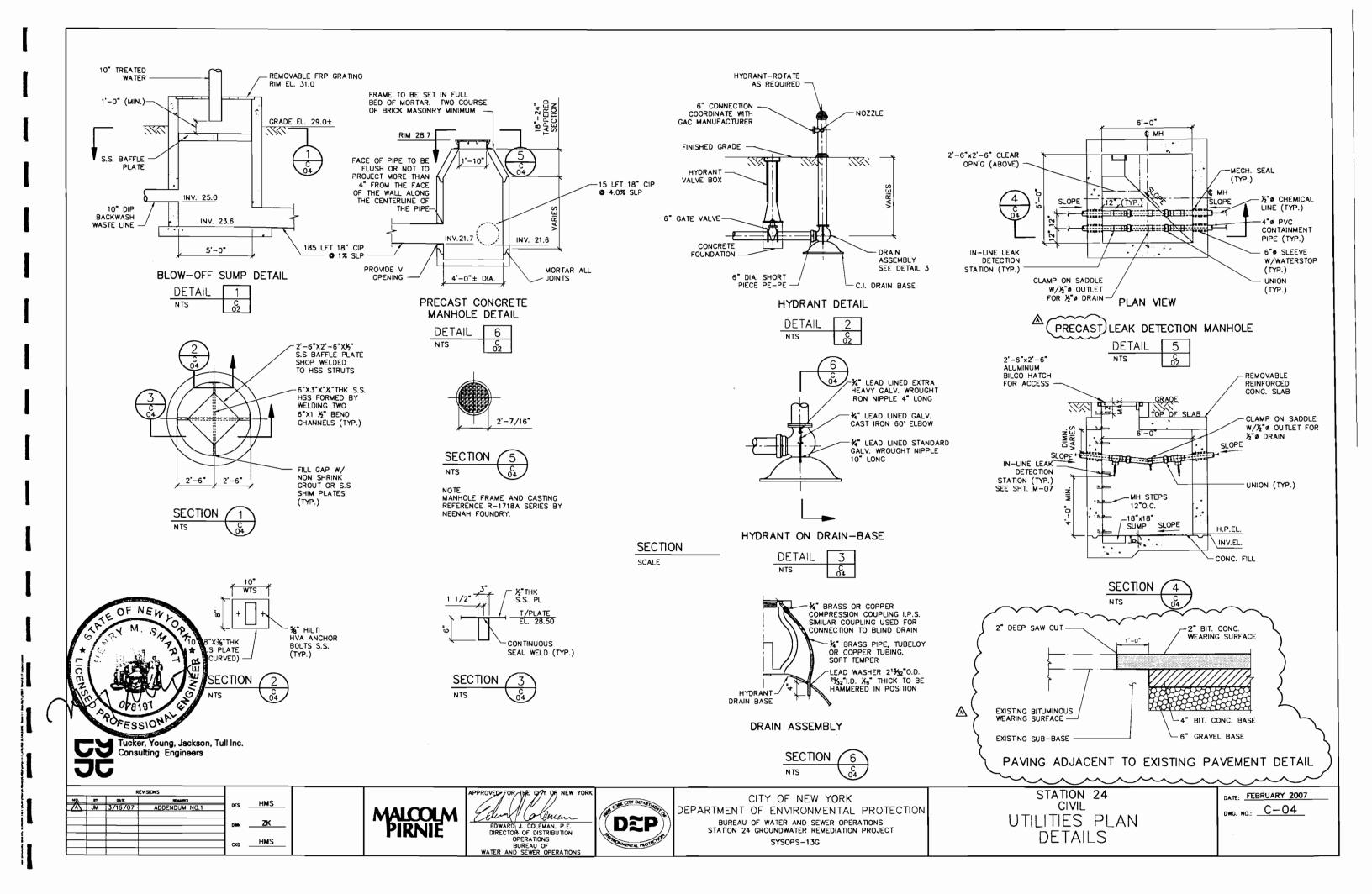
STATION 24 GROUNDWATER REMEDIATION PROJECT

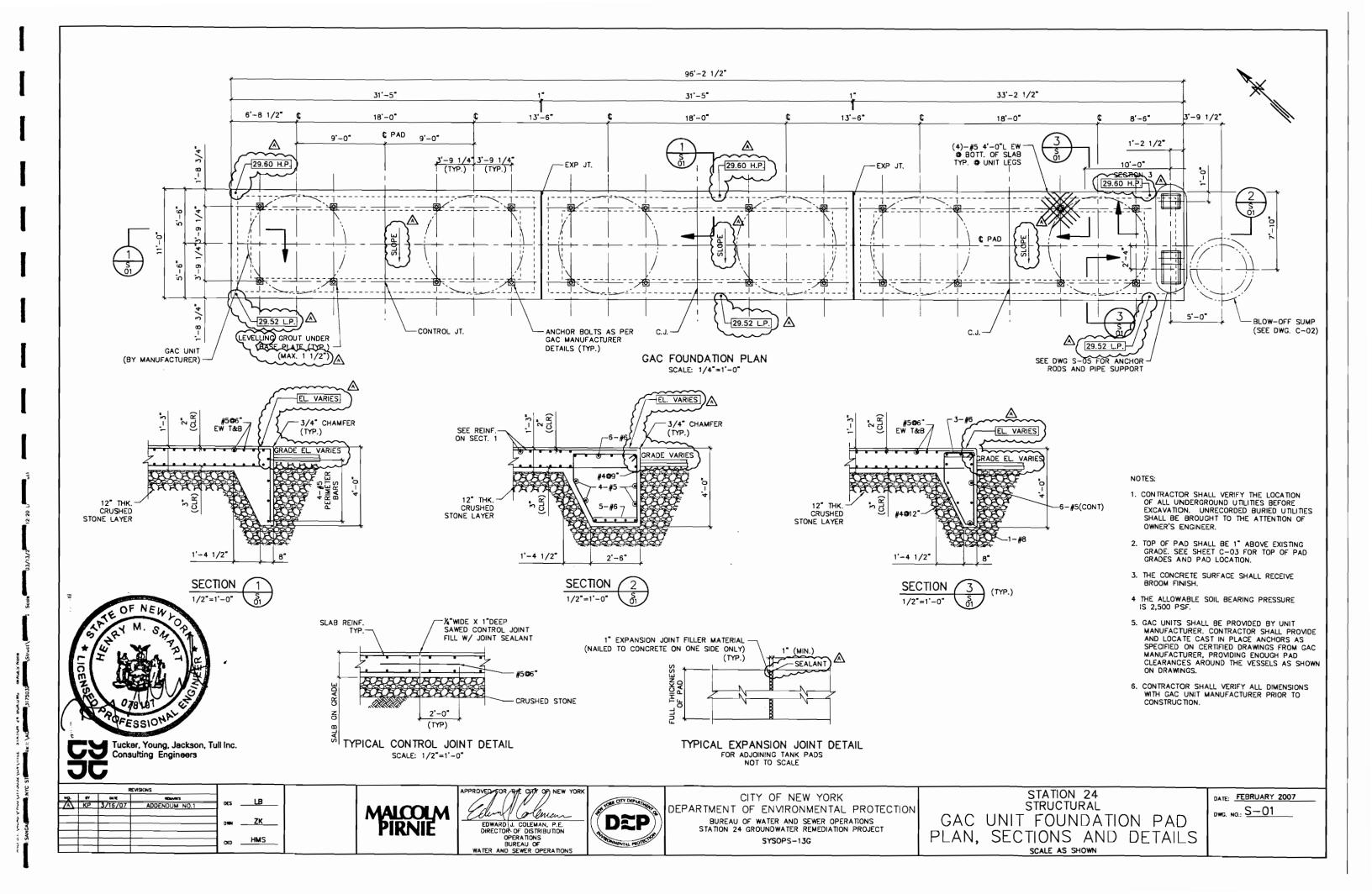
SYSOPS-13G

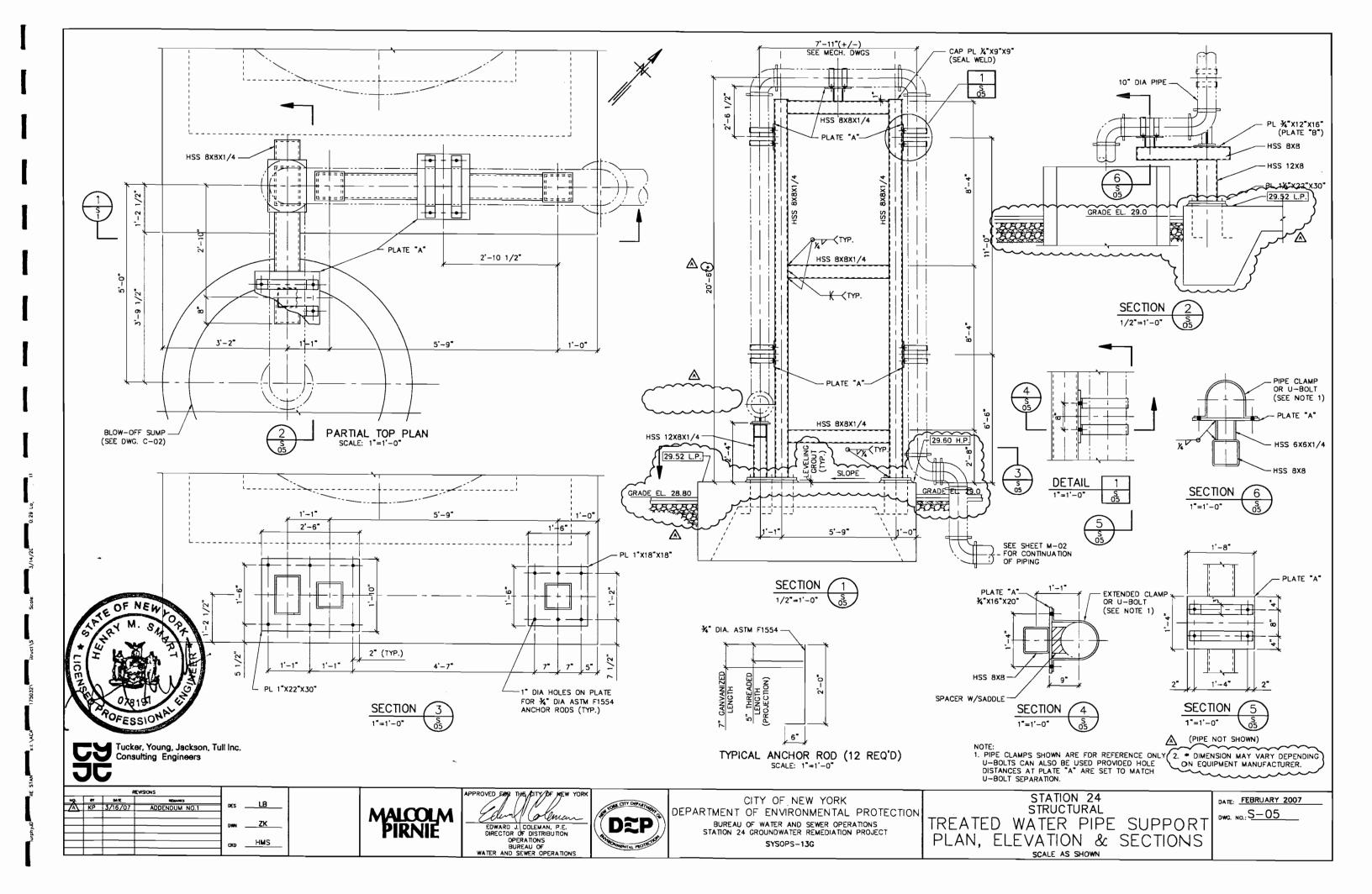
STATION 24 CIVIL UTILITIES PLAN

DATE: <u>FEBRUARY 2007</u>
DWG. NO.: <u>C-02</u>

SCALE: 1"=30"

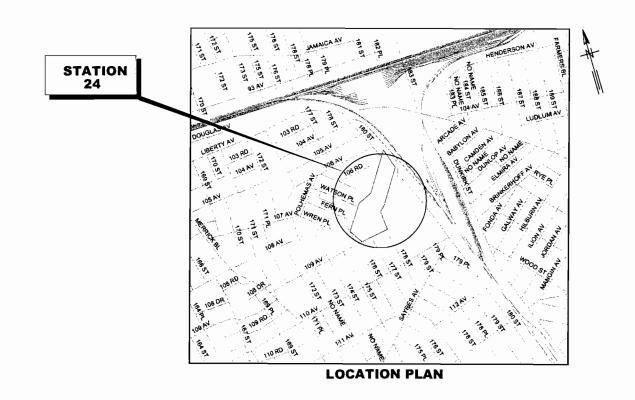






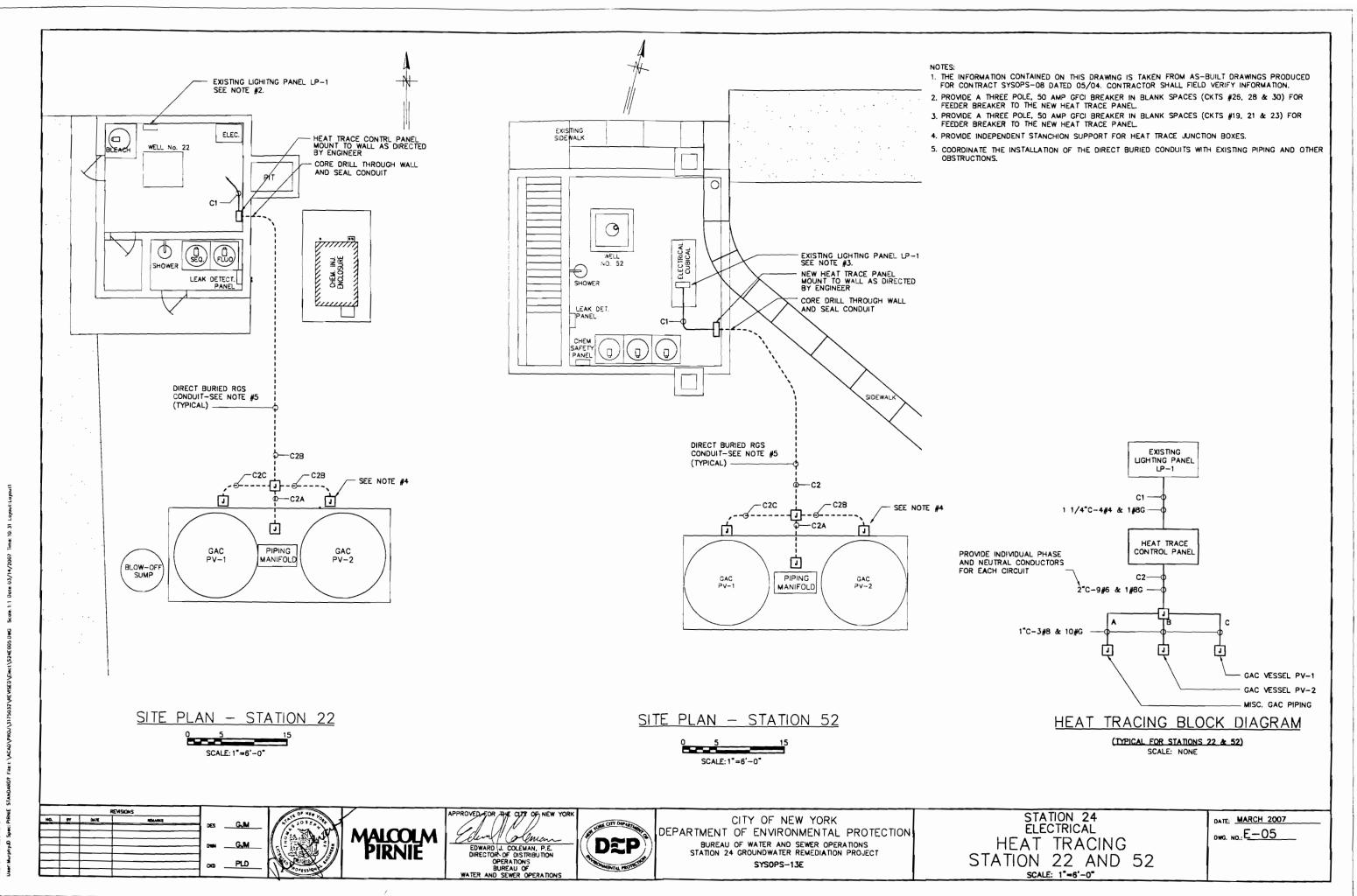
CITY OF NEW YORK DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF WATER AND SEWER OPERATIONS

IN THE BOROUGH OF QUEENS, NEW YORK SYSOPS - 13E - ELECTRICAL STATION 24 GROUNDWATER REMEDIATION PROJECT FEBRUARY 2007



INDEX OF DRAWINGS		
SHEET NO.	DRAWING TITLE	
	ELECTRICAL	
E-01	SITE PLAN	
E-02	ONE LINE DIAGRAM AND FRONT VIEW	
E-03	PARTIAL PLANS	
E-04	BLOCK DIAGRAMS AND MISCELLANEOUS DETAILS	
E-05 HEAT TRACING STAION 22 AND 52		

MALCOLM PIRNIE, INC. CONSULTING ENGINEERS WHITE PLAINS, N.Y.



XREFS: IMAGES: None



THE CITY OF NEW YORK

DEPARTMENT OF ENVIRONMENTAL PROTECTION

CONTRACT FOR FURNISHING ALL LABOR AND MATERIAL NECESSARY AND REQUIRED FOR:

SYSOPS-13G STRUCTURES AND EQUIPMENT, AND SYSOPS13E ELECTRICAL

STATION 24 GROUNDWATER REMEDIATION PROJECT

MARCH 2007