Project: <u>South Battery Park City Resiliency Project:</u> <u>Wagner Park / Museum of Jewish Heritage</u> <u>Site Work Construction Services Project</u> (the "Project") Request for Proposals ("RFP") Date: June 28, 2022

RE: Addendum #10 # of Pages: 42

### **REVISIONS TO RFP:**

- The following new or revised Wagner/MJH Project Drawings and Specifications related to the area of the Project Site adjacent to First Place, are hereby formally incorporated into the RFP's <u>Exhibit B-1</u> – Construction Documents (Project Drawings & Specifications). These revised drawings replace and supersede all prior versions issued with the RFP:
  - <u>Structural Drawings Attachment #1</u>: Note that the changes to the below-listed drawings are indicated via a "bubble" that circles the area of the drawings that is revised. Also note that all other Structural Drawings included in the RFP should be considered the current versions to date.

SF301 – Flood Wall Foundation Plan 1 of 5 SF306 – Flood Wall Plan 1 of 5 SF307 – Flood Wall Plan 2 of 5 SF308 – Flood Wall Plan 3 of 5 SF312 – Concrete Post Enlarged Plans 1 of 2 SF321 – Enlarged Plans – First Place and MJH SF401 – Floodwall Profile 1 of 2 SF403 – Floodwall Sections 1 of 4 SF412 – Floodwall Sections at First Place ConEd Vaults SF601 – Flip Up Gate Details SS301 – Site Structures Plan 1 of 5 SS602 – Light Pole Details SS803 – 54-Inch Tide Gate at 1<sup>st</sup> Place Details SS804 – 54-Inch Tide Gate at 1<sup>st</sup> Place Details

- <u>New Specification #107119.16 | Removable Flood Barriers Attachment #2.</u>
- <u>Civil Drawings Attachment #3</u>: Note that the changes to the below-listed drawings are indicated via a "bubble" that circles the area of the drawings that is revised. Also note that all other Structural Drawings included in the RFP should be considered the current versions to date.

C002 – General Notes and Notes C100B – Site Demolition Legend and Flag Notes C101SW – Site Demolition Plan 01 C101SE – Site Demolition Plan 02 C401SW – Storm Drainage Plan 01 C401SE – Storm Drainage Plan 02 C601SW – Water and Sewer Plan 01 C601SE – Water and Sewer Plan 02 C802 – Sections and Details C903 – Storm Drainage Utility Profile C913 – Sewer Utility Profile

• <u>Specification #321123 | Aggregate Base Courses – Attachment #4</u>: The revised content, compared to the content included in the version of Specification #321123 of the RFP's *Exhibit B-1 – Construction Documents (Project Drawings and Specifications)*, is yellow-highlighted in this corrected version of such Specification.

[SIGNATURE PAGE TO FOLLOW]

By signing the line below, I am acknowledging that all pages of this Addendum #10 have been received, reviewed and understood, and will be incorporated into the Proposal submitted. This document must be attached to the Proposal for consideration.

 Print Name (Above)
 Signature (Above)

 Number of pages received:
 <fill in>

Date (Above)

Distributed to: All prospective Proposers

[NO FURTHER TEXT ON THIS PAGE]

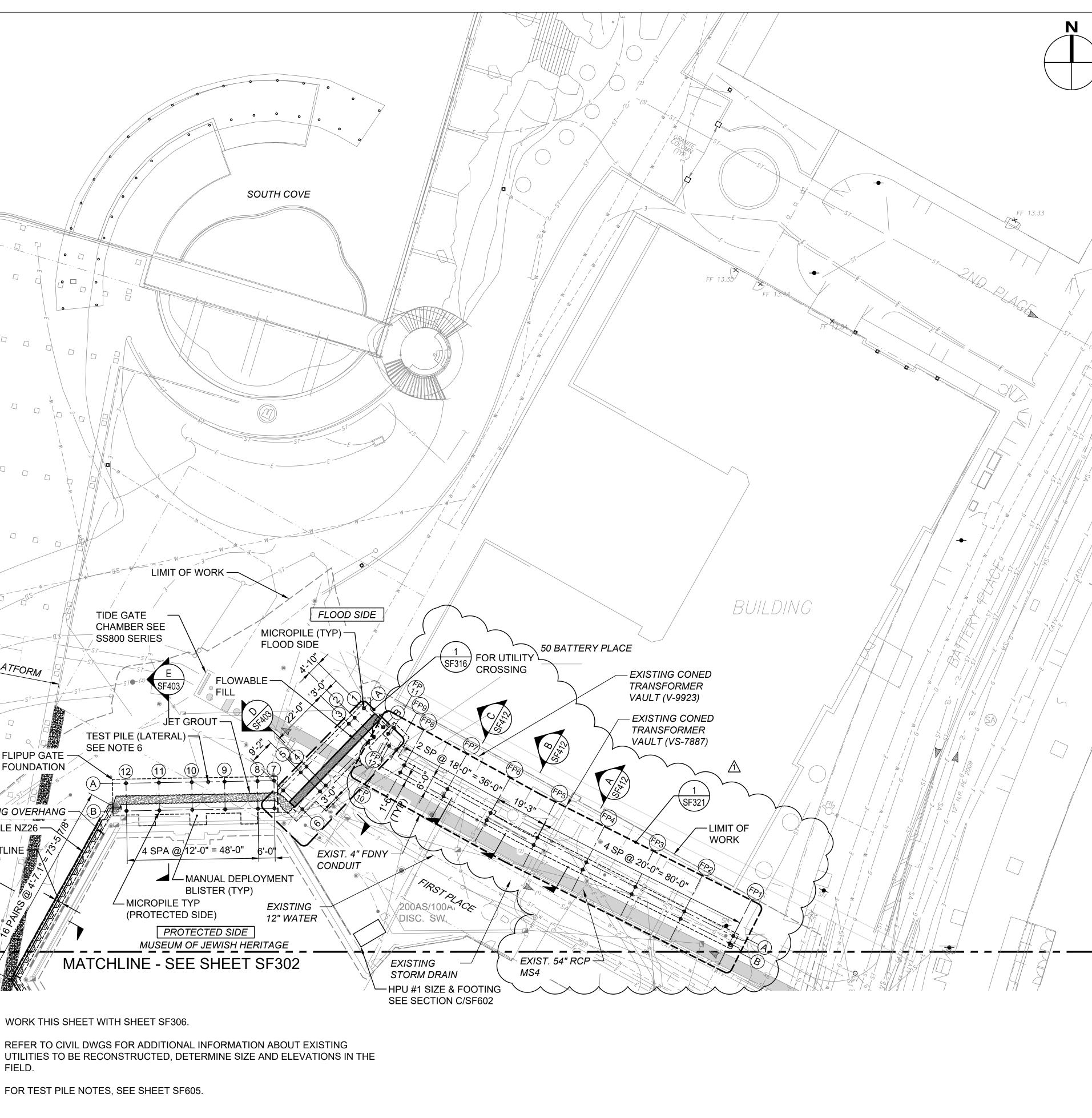
### <u>ATTACHMENT #1</u> REVISED STRUCTURAL DRAWINGS:

SF301 – Flood Wall Foundation Plan 1 of 5 SF306 – Flood Wall Plan 1 of 5 SF307 – Flood Wall Plan 2 of 5 SF308 – Flood Wall Plan 3 of 5 SF312 – Concrete Post Enlarged Plans 1 of 2 SF321 – Enlarged Plans – First Place and MJH SF401 – Floodwall Profile 1 of 2 SF403 – Floodwall Sections 1 of 4 SF412 – Floodwall Sections at First Place ConEd Vaults SF601 – Flip Up Gate Details SS301 – Site Structures Plan 1 of 5 SS602 – Light Pole Details SS803 – 54-Inch Tide Gate at 1st Place Details

(ATTACHED)

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FP03A	196613.96	979200.69
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FP04A	196622.94	979182.81
FP04B	196620.25	979181.47
FP05A	196631.91	979164.94
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FP06A	196640.91	979147.89
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FP07A	196649.61	979132.13
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FP08A	196658.31	979116.38
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FP12	196669.80	979110.52
1A	196679.11	979101.66
1B	196672.21	979108.67
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7B	196642.62	979068.98
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11B	196641.87	979026.99
12A	196651.77	979014.82
12B	196641.68	979014.99

- UTILITY LOCATIONS ARE BASED ON FIELD OBSERVATIONS AND RECORD DRAWINGS. CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UTILITIES PRIOR TO CONSTRUCTION. ONLY PROPOSED UTILITIES AND EXISTING UTILITIES TO REMAIN ARE SHOWN. FOR EXISTING UTILITIES TO BE DEMOLISHED SEE CIVIL DWGS.
- 2. SEE SF605 FOR PILE INSTALLATION. SEE GENERAL NOTES FOR JET GROUTING NOTES.
- SUBMIT A VIBRATION MONITORING PLAN PRIOR TO INSTALLATION OF PILES. 3. VIBRATORY INSTALLATION OF PILES IS NOT PERMITTED WITHIN 50 FEET OF THE MUSEUM BUILDINGS.
- 4. WORK THIS SHEET WITH SHEET SF306.
- FIELD.
- 6. FOR TEST PILE NOTES, SEE SHEET SF605.



5. REFER TO CIVIL DWGS FOR ADDITIONAL INFORMATION ABOUT EXISTING

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SOUTH BATTERY PARK CITY **RESILIENCY DESIGN** SERVICES

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HUGH L. CAREY BATTERY PARK CITY AUTHORITY

CONSULTANT

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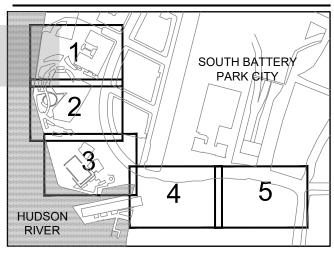
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1	JUNE 2022	RESPONSES TO QUESTIONS
Ι	JAN 2022	BID SET
I/R	DATE	DESCRIPTION

Designed By:	L.DIAZ
Drawn By:	F.LIZANO
Checked By:	M.GONSKI
Approved By:	J.CAREL

### PROJECT/TERM CONTRACT NUMBER

Contract No. 18-2586 SHEET TITLE

FLOOD WALL FOUNDATION PLAN 1 OF 5

SHEET NUMBER

SF301

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GRAPHIC SCALE: 1" = 20'-0"

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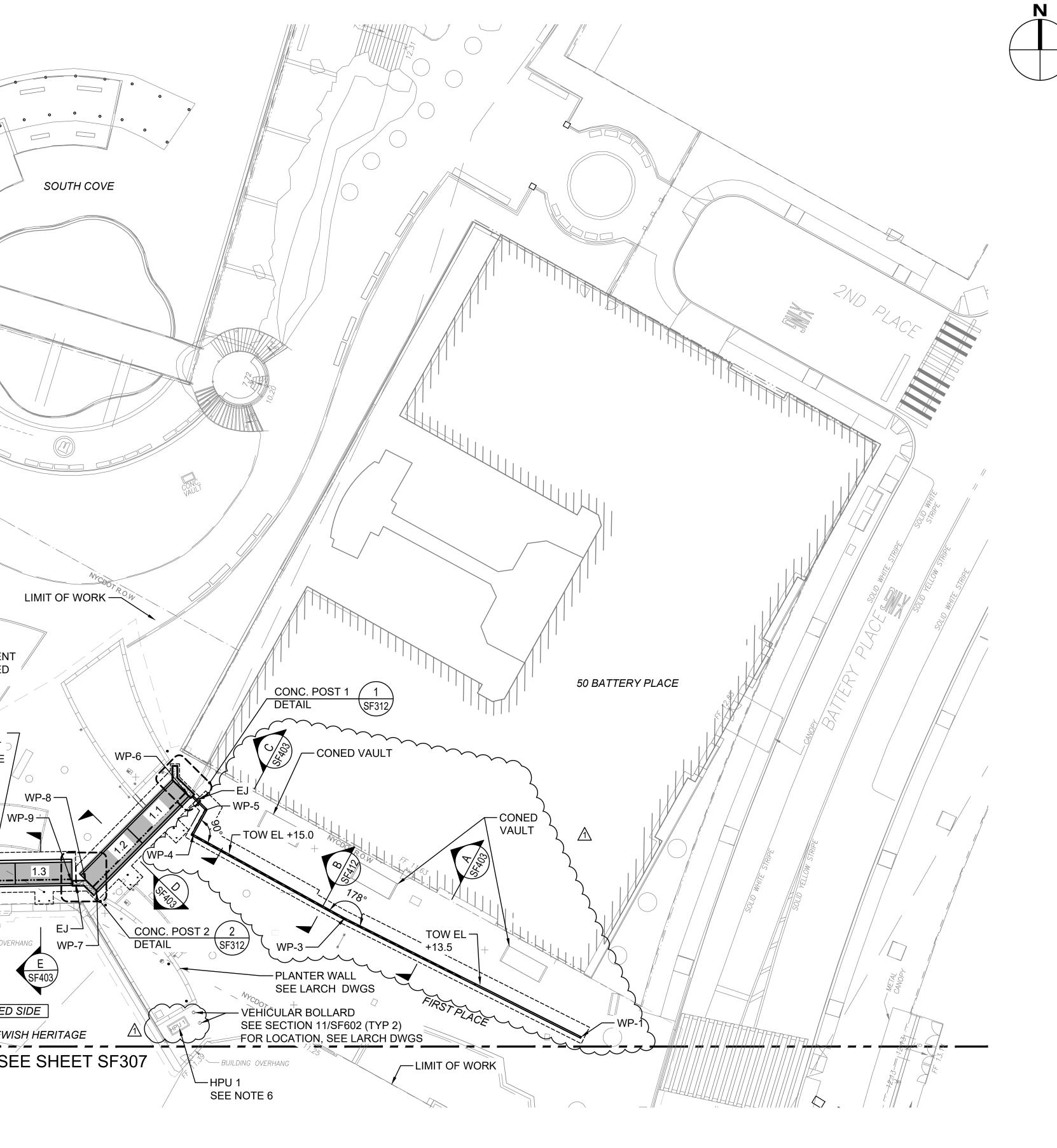
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### GRAPHIC SCALE: 1" = 20'-0" 10' 10' 20

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1	JUNE 2022	RESPONSES TO QUESTIONS
Ι	JAN 2022	BID SET
I/R	DATE	DESCRIPTION

Designed By:			L.DIAZ
	I/R	DATE	DESCRIPTION
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Checked By:		M.GONSKI

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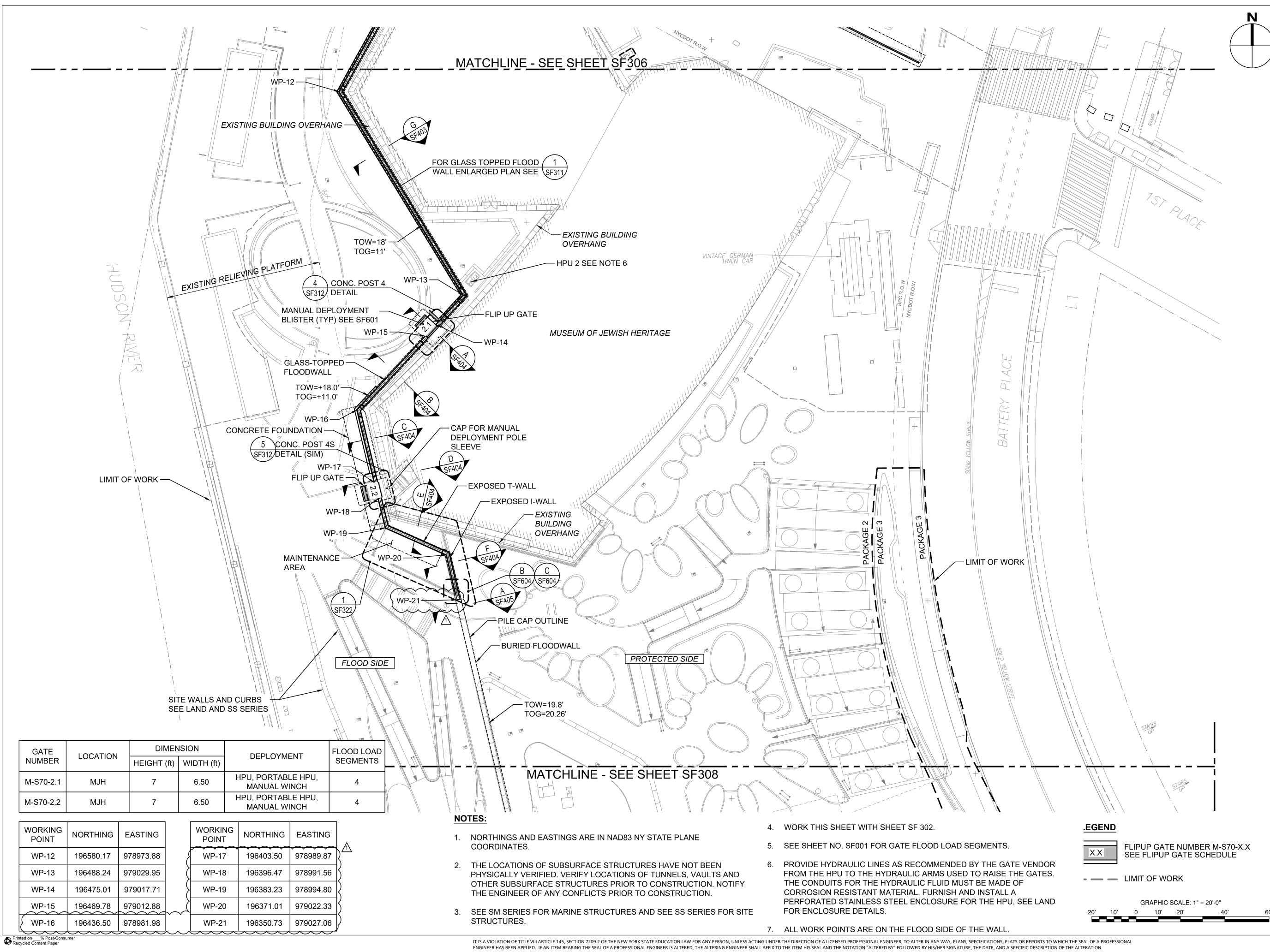
Approved By: J.CAREL

Contract No. 18-2586

SHEET TITLE

FLOOD WALL PLAN 1 OF 5

SHEET NUMBER



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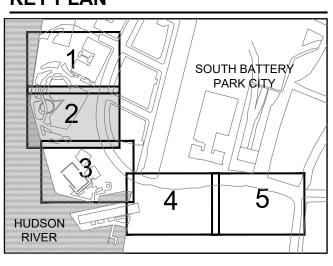
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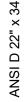
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Drawn By:	F.LIZANO
Checked By:	M.GONSKI
Approved By:	J.CAREL

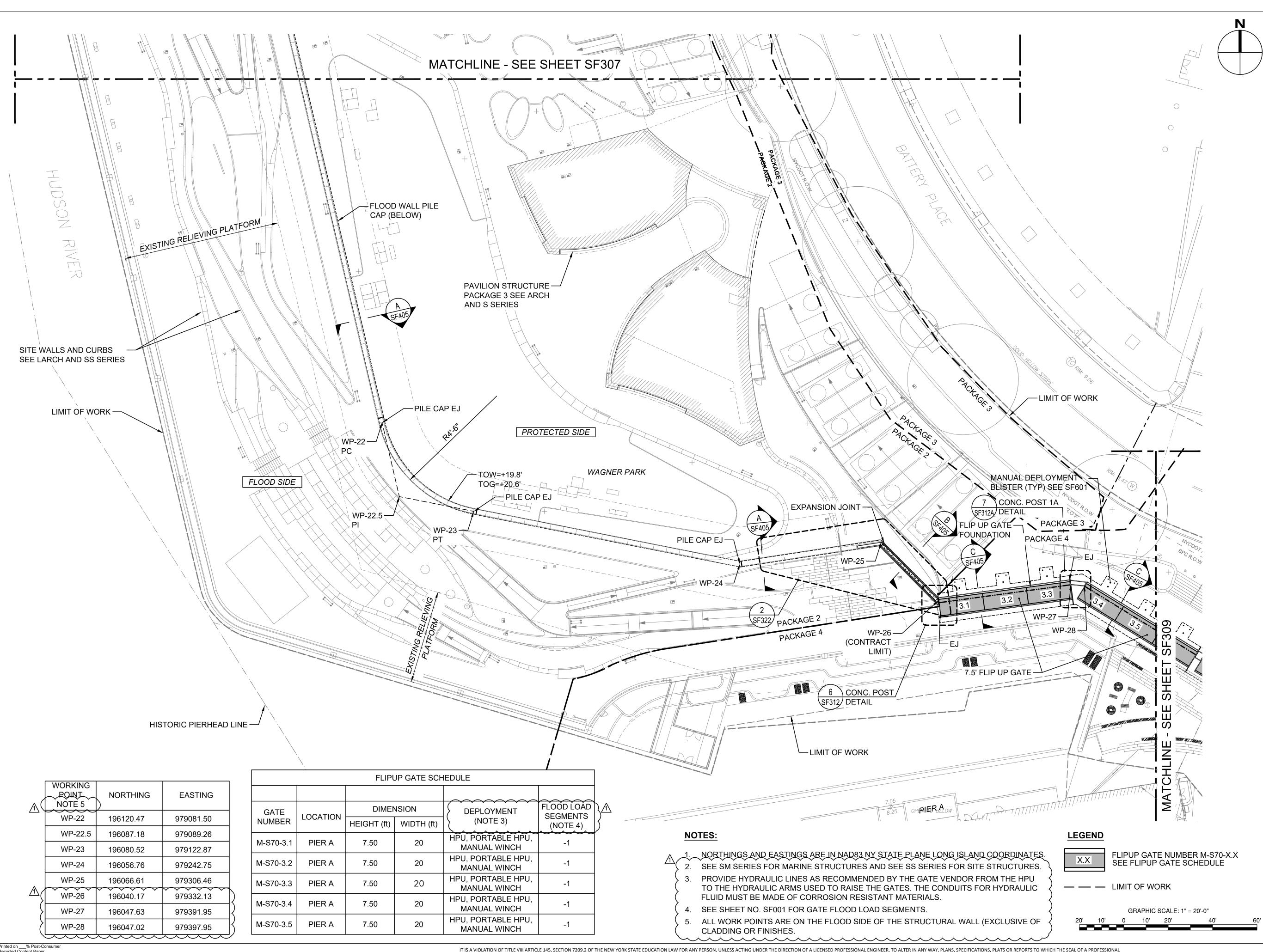
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> FLOOD WALL PLAN 2 OF 5

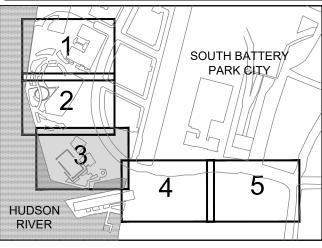






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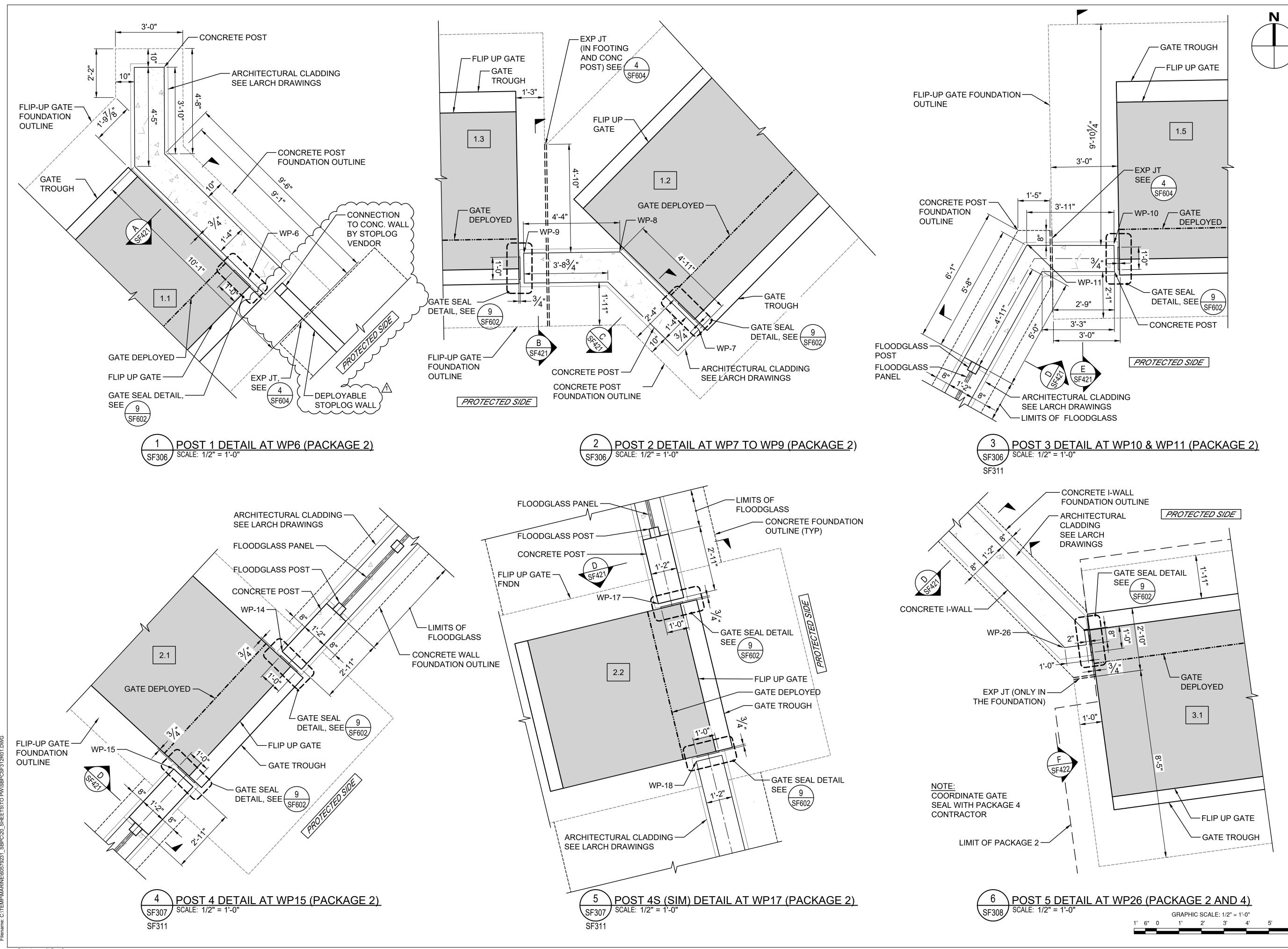
Designed By:	L.DIAZ
Drawn By:	F.LIZANO
Checked By:	M.GONSKI
Approved By:	J.CAREL

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Contract No. 18-2586 SHEET TITLE

> FLOOD WALL PLAN 3 OF 5

SHEET NUMBER



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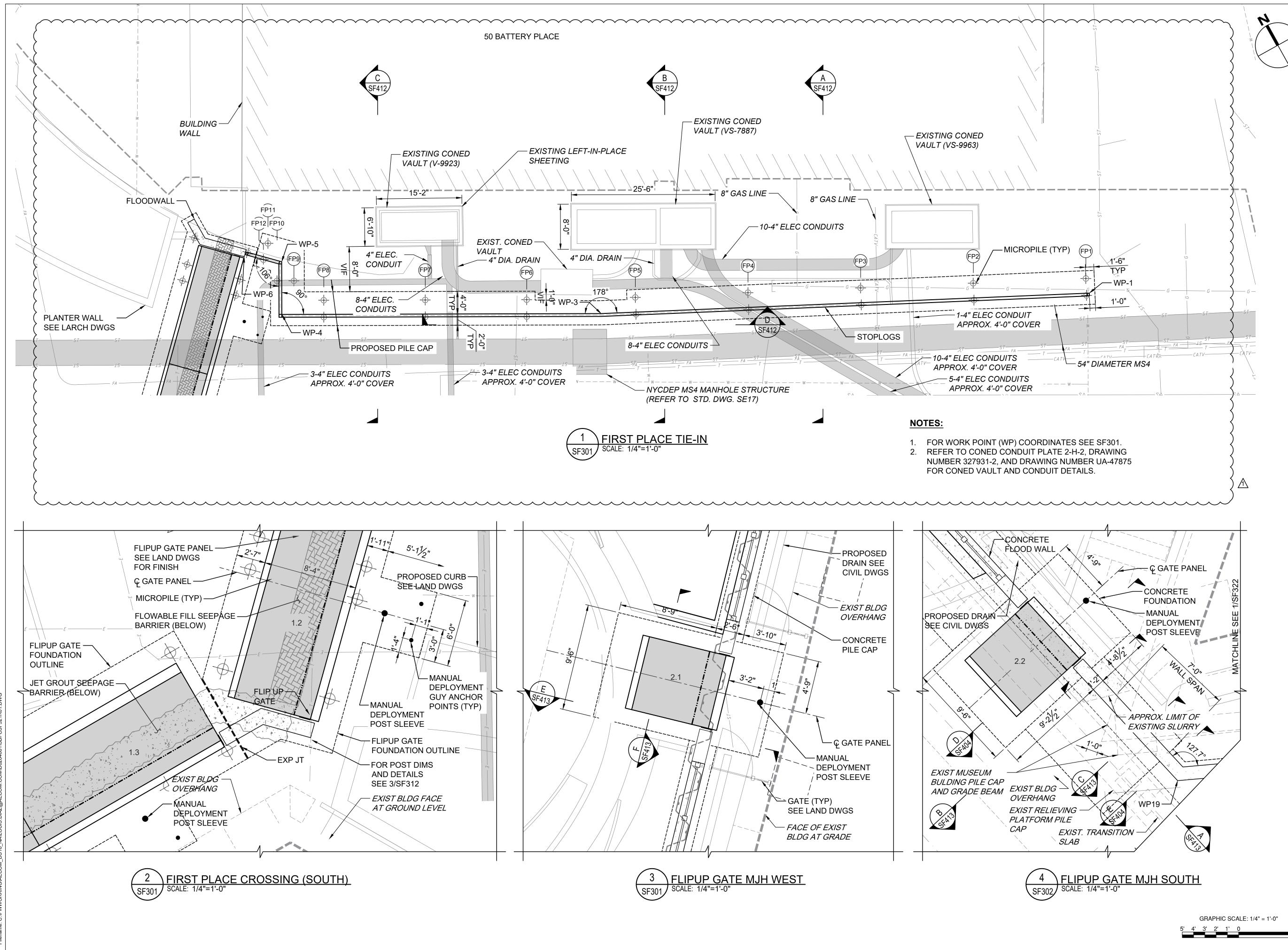
Designed By:	L.DIAZ
Drawn By:	F.LIZANO
Checked By:	M.GONSKI
Approved By:	J.CAREL

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Contract No. 18-2586 SHEET TITLE

> CONCRETE POST ENLARGED PLANS 1 OF 2

### SHEET NUMBER



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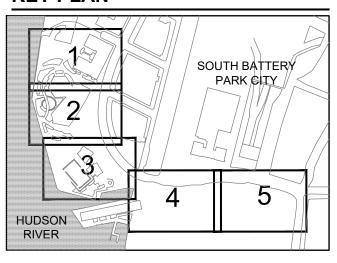
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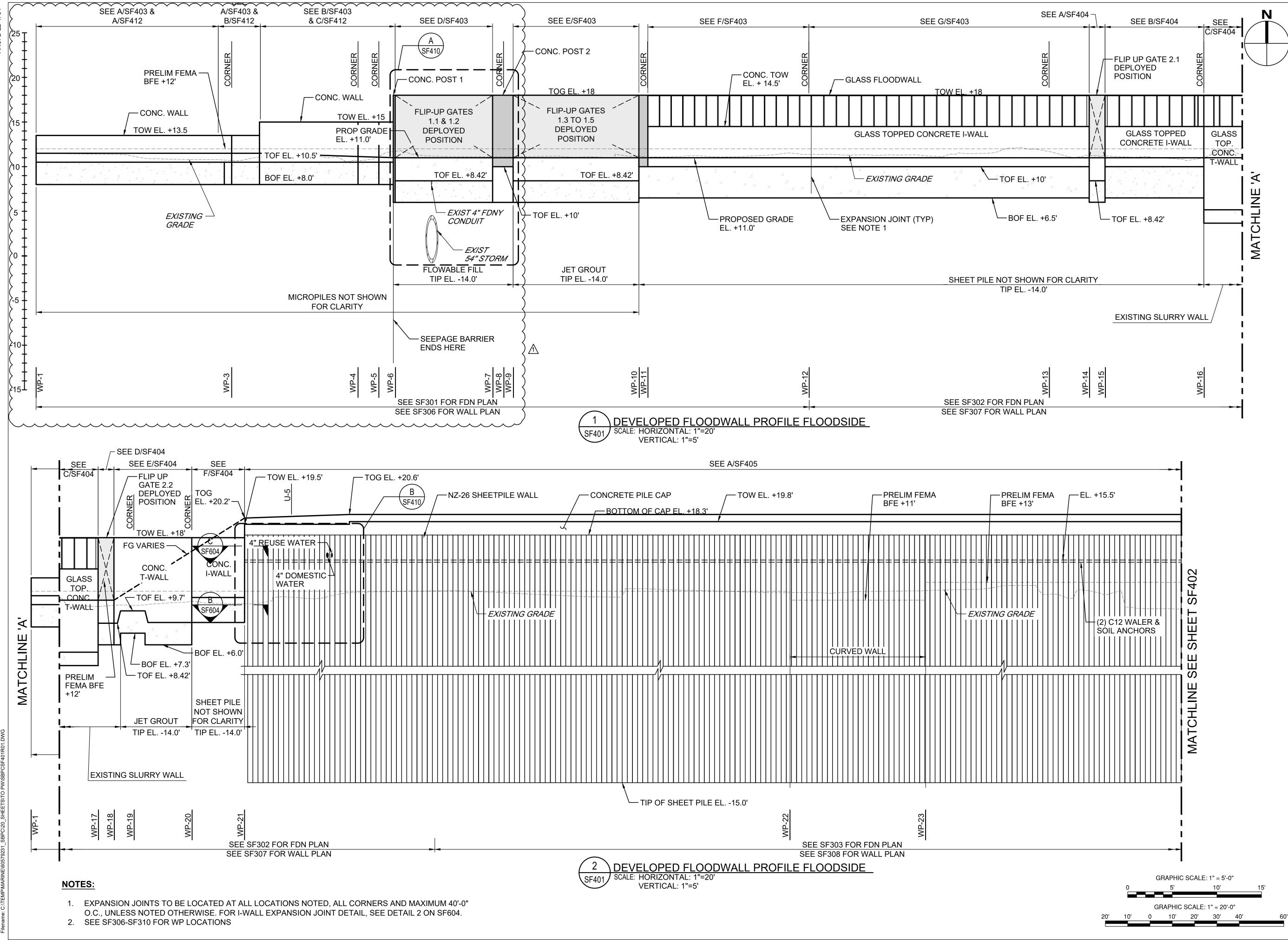
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Checked By:	M.GONSKI
Approved By:	J.CAREL

### **PROJECT/TERM CONTRACT NUMBER**

Contract No. 18-2586 SHEET TITLE

> ENLARGED PLANS -FIRST PLACE AND MJH

SHEET NUMBER



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### AECOM PROJECT SOUTH BATTERY PARK CITY **RESILIENCY DESIGN** SERVICES CLIENT HUGH L. CAREY **BATTERY PARK CITY** AUTHORITY CONSULTANT AECOM AECOM USA 605 3rd Ave, 2nd Floor, New York, NY 10158 212.973.2900 tel www.aecom.com SUB-CONSULTANT MAGNUSSON KLEMENCIC ASSOCIATES 1301 Fifth Avenue, Suite 3200, Seattle, WA 98101-2699 206.292.1200 tel 206.292.1201 fax www.mka.com SITE WORKS **SITEWORKS** 150 West 28th St.,Suite 605 New York, NY 10001 212.255.8350 siteworkscm.com MILHOUSE **MILHOUSE** 333 South Wabash Ave, Suite 2901, Chicago, Ill 60604 313.987.0061 milhouseinc.com TILLOTSON DESIGN ASSOCIATES 40 Worth St. Rm 703, New York, NY 10013 212.675.7760 tillotsondesian.c THOMAS PHIFER AND PARTNERS 180 Varick St.,New York, NY 10014 212.337.0334 thomasphifer.com NAIK CONSULTING GROUP, PC laik 111 West 33rd St., Suite 605 New York, NY 10120 212.575.2701 naikgroup.com OWEIS 100 East Hanover Ave., Suite 101, Cedar Knolls, NJ 07927 973.539.440 oweisengineering.com **KEY PLAN** SOUTH BATTERY PARK GITY

### REGISTRATION

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### **ISSUE/REVISION**

1	JUNE 2022	RESPONSES TO QUESTIONS
Ι	JAN 2022	BID SET
I/R	DATE	DESCRIPTION

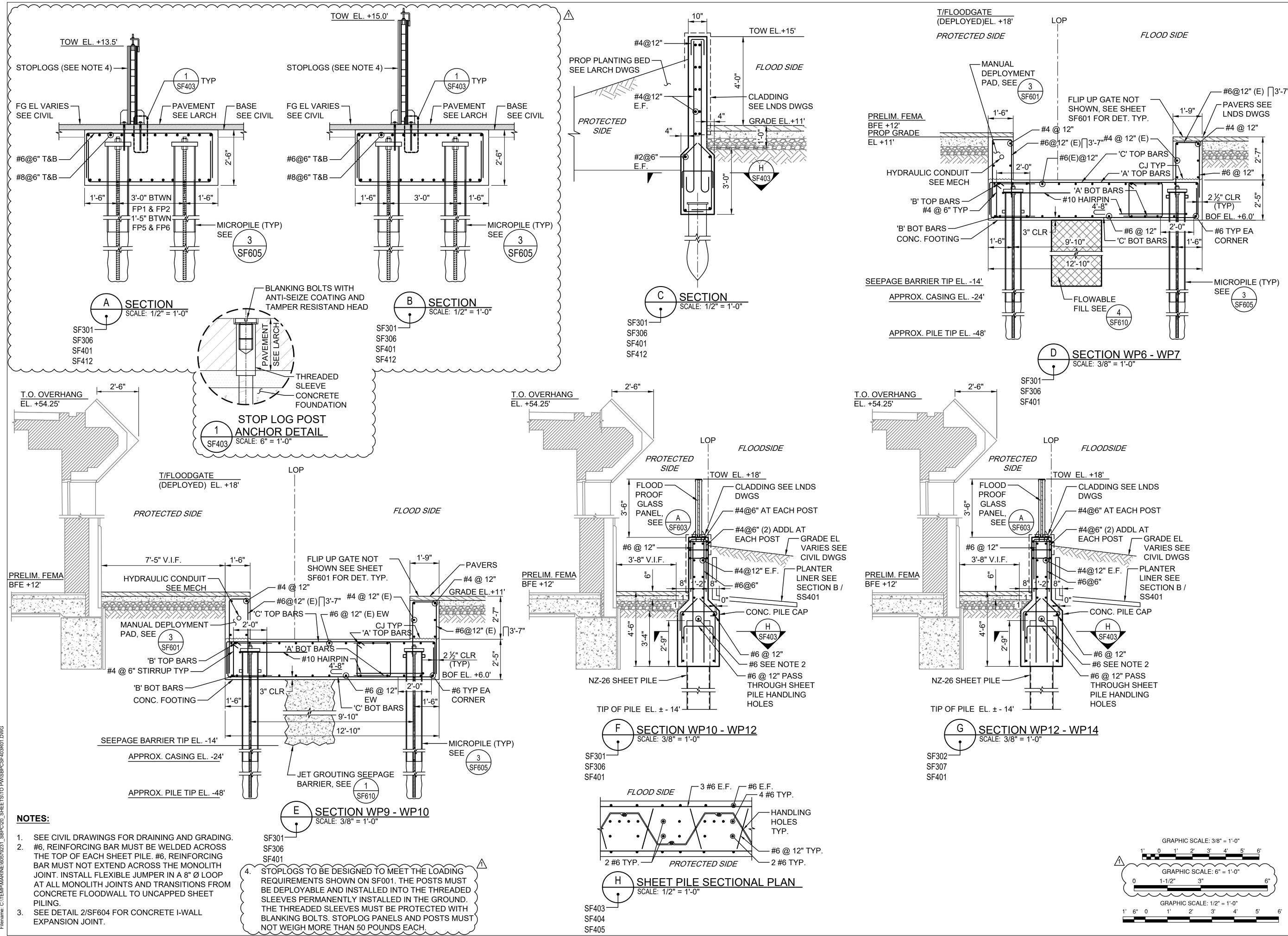
Designed By:	L.DIAZ
Drawn By:	F.LIZANO
Checked By:	M.GONSKI
Approved By:	J.CAREL

### **PROJECT/TERM CONTRACT NUMBER**

Contract No. 18-2586 SHEET TITLE

### FLOODWALL PROFILE 1 OF 2

### SHEET NUMBER



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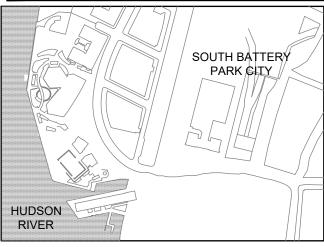
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### **ISSUE/REVISION**

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I/R	DATE	DESCRIPTION	
Ι	JAN 2022	BID SET	
1	JUNE 2022	FIRST PLACE REVISIONS	

Designed By:	L.DIAZ
Drawn By:	F.LIZANO
Checked By:	M.GONSKI
Approved By:	J.CAREL

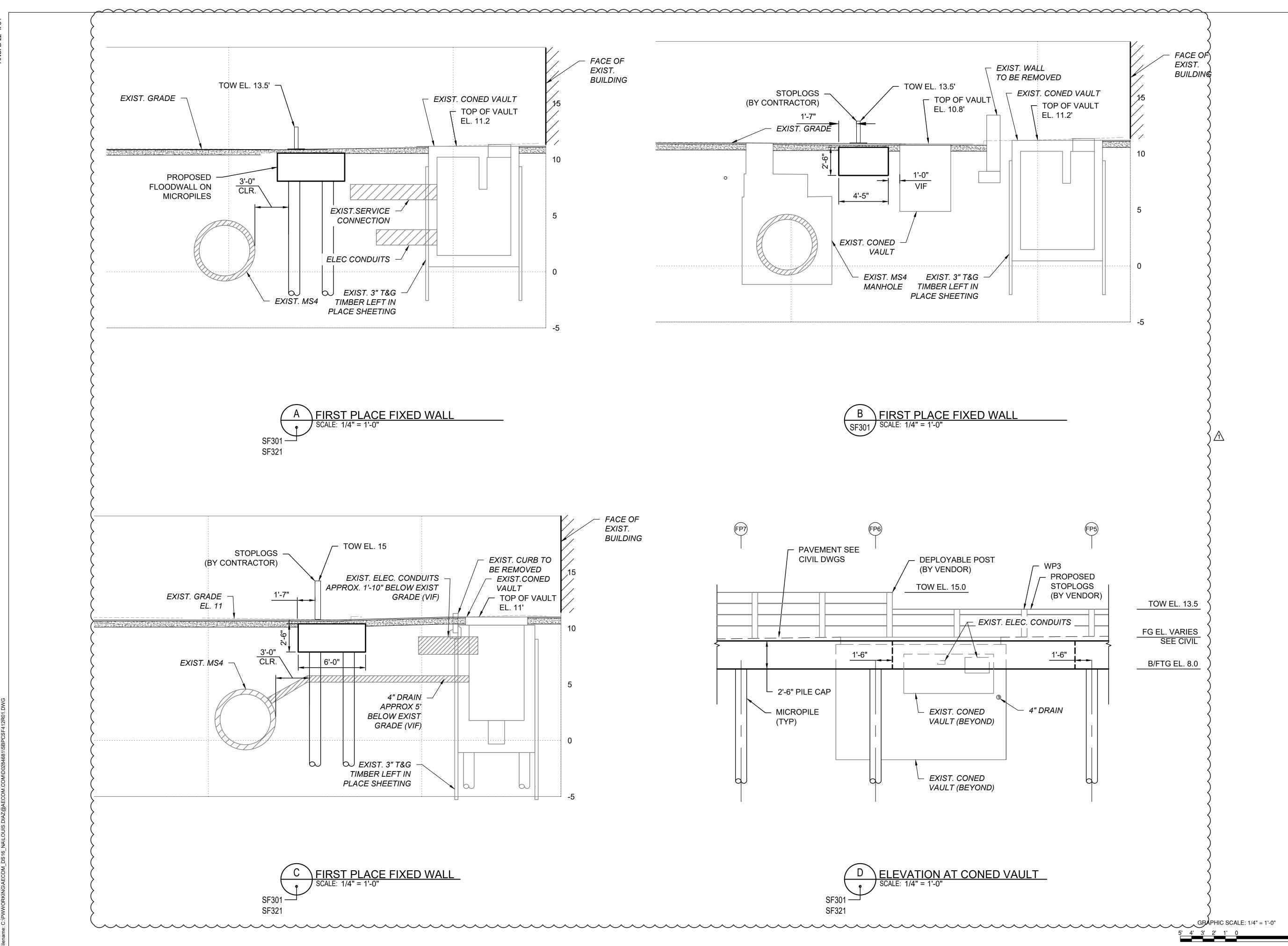
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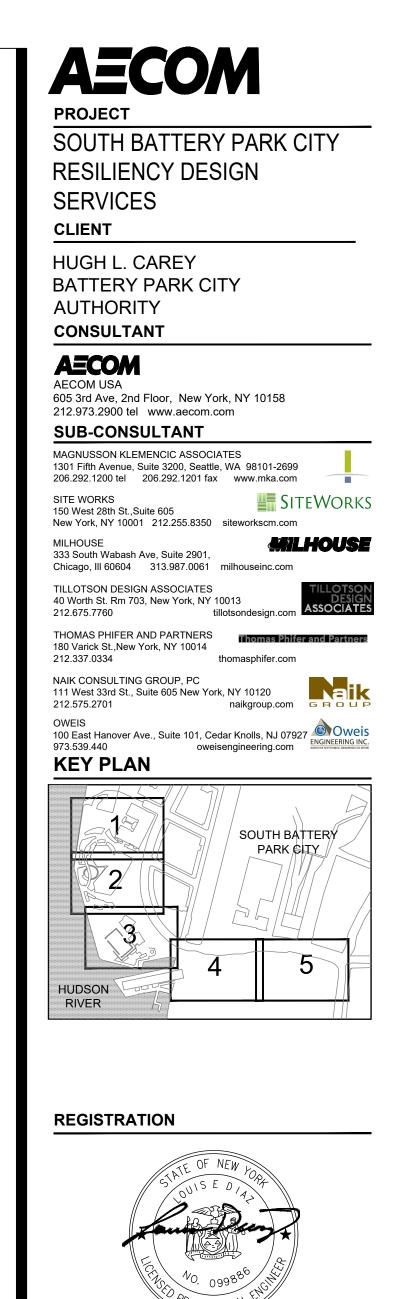
Contract No. 18-2586 SHEET TITLE

### FLOODWALL SECTIONS 1 OF 4

### SHEET NUMBER







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1	JUNE 2022	RESPONSES TO QUESTIONS
	JAN 2022	BID SET
I/R	DATE	DESCRIPTION

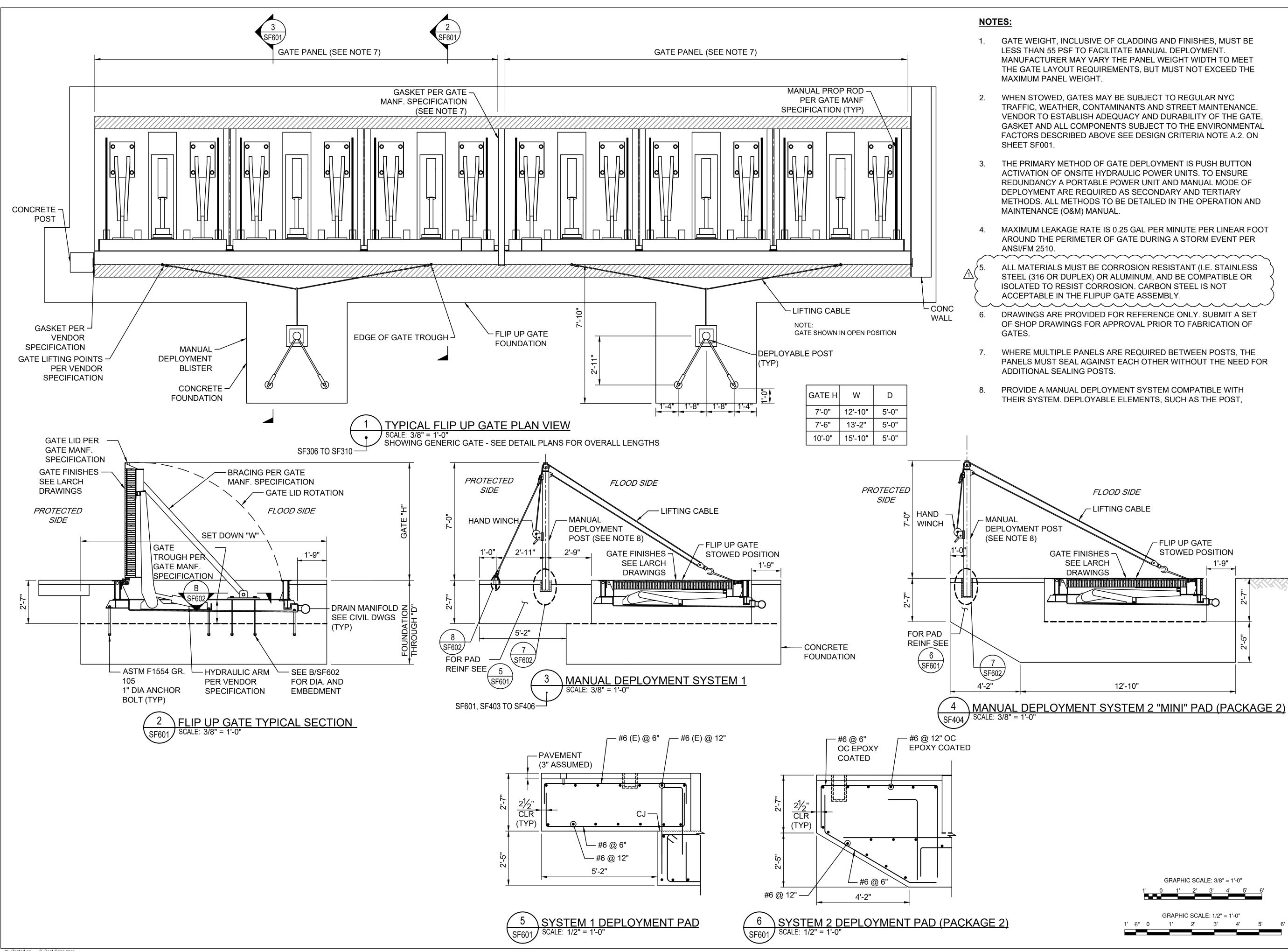
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Contract No. 18-2586 SHEET TITLE

FLOODWALL SECTIONS AT FIRST PLACE CONED VAULTS

### SHEET NUMBER



### PROJECT SOUTH BATTERY PARK CITY **RESILIENCY DESIGN** SERVICES CLIENT HUGH L. CAREY

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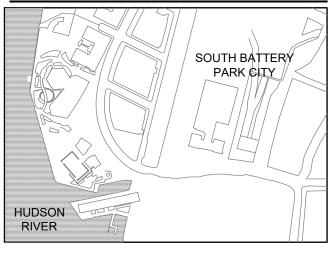
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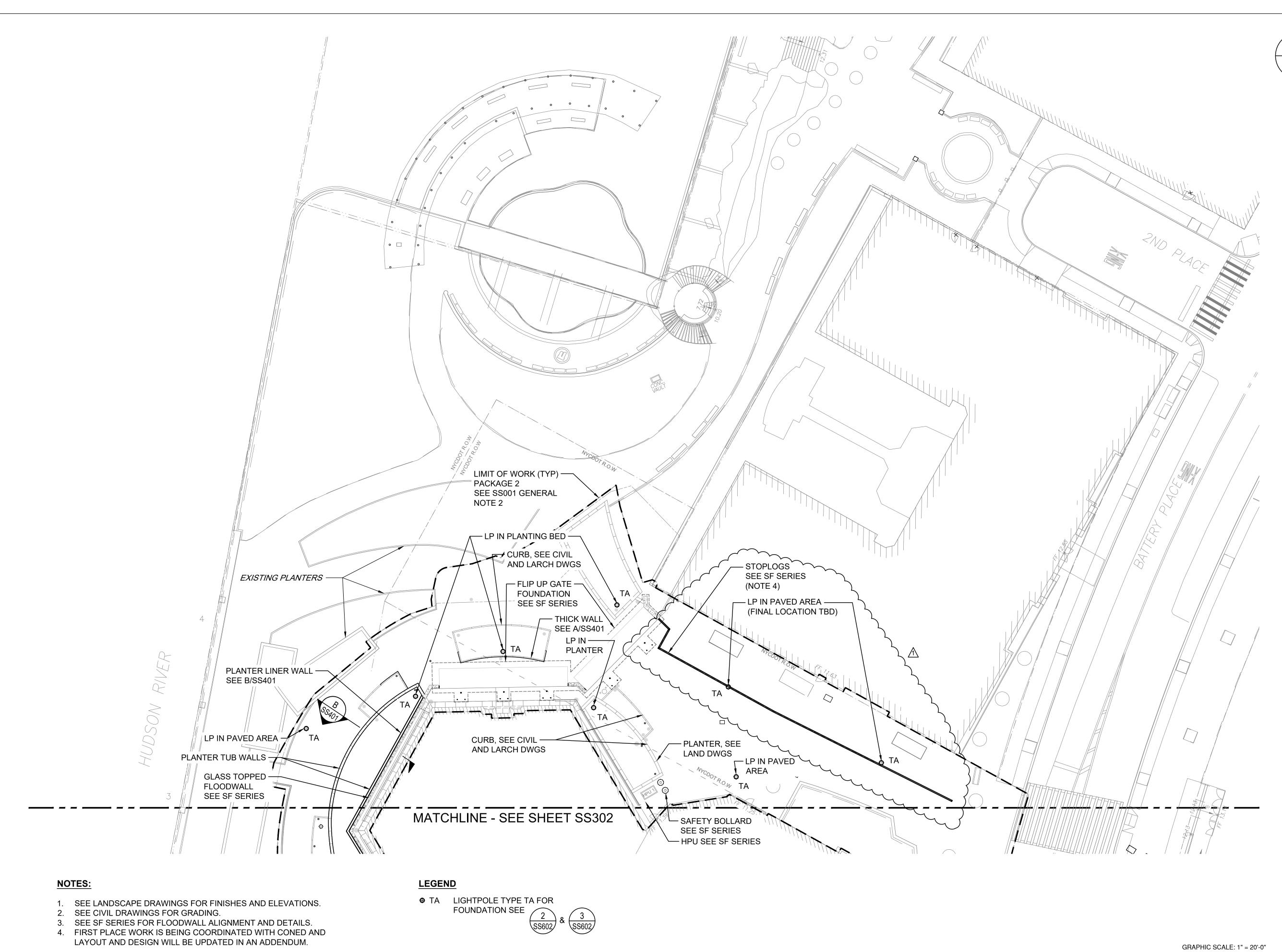
### **PROJECT/TERM CONTRACT NUMBER**

Contract No. 18-2586

SHEET TITLE

### FLIP UP GATE DETAILS

SHEET NUMBER



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SERVICES CLIENT

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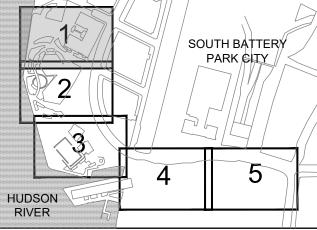
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I/R	DATE	DESCRIPTION
Ι	JAN 2022	BID SET
1	JUNE 2022	RESPONSES TO QUESTIONS

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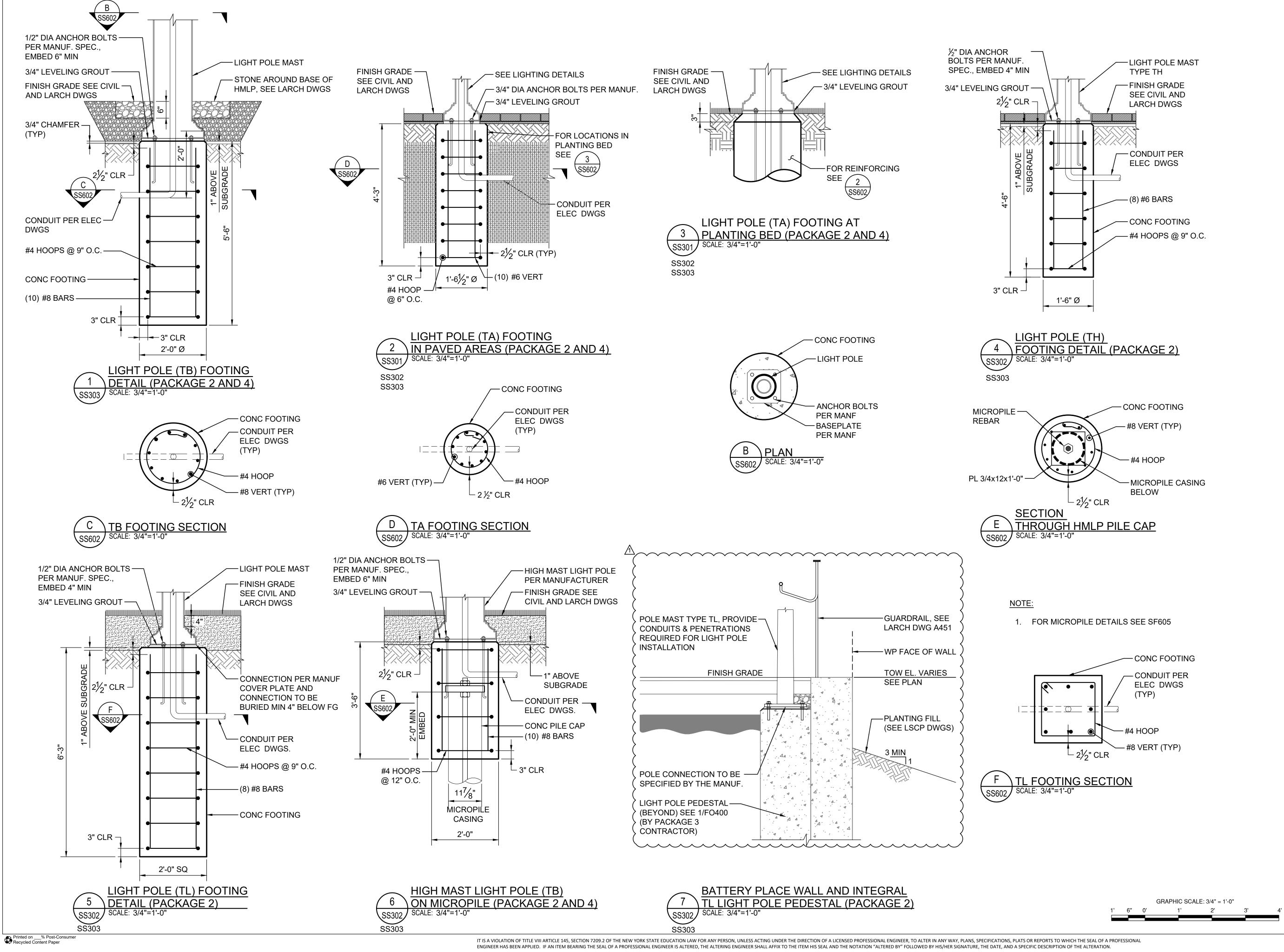
> SITE STRUCTURES PLAN 1 OF 5

SHEET NUMBER

60'

**SS301** 

10' 20' 30' Ο 40'



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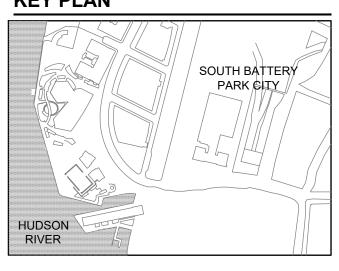
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### **ISSUE/REVISION**

MAY 2022	ADDED DETAIL 7
JAN 2022	BID SET
DATE	DESCRIPTION
-	JAN 2022

Designed By:	L.DIAZ
Drawn By:	F.LIZANO
Checked By:	M.GONSKI
Approved By:	J.CAREL

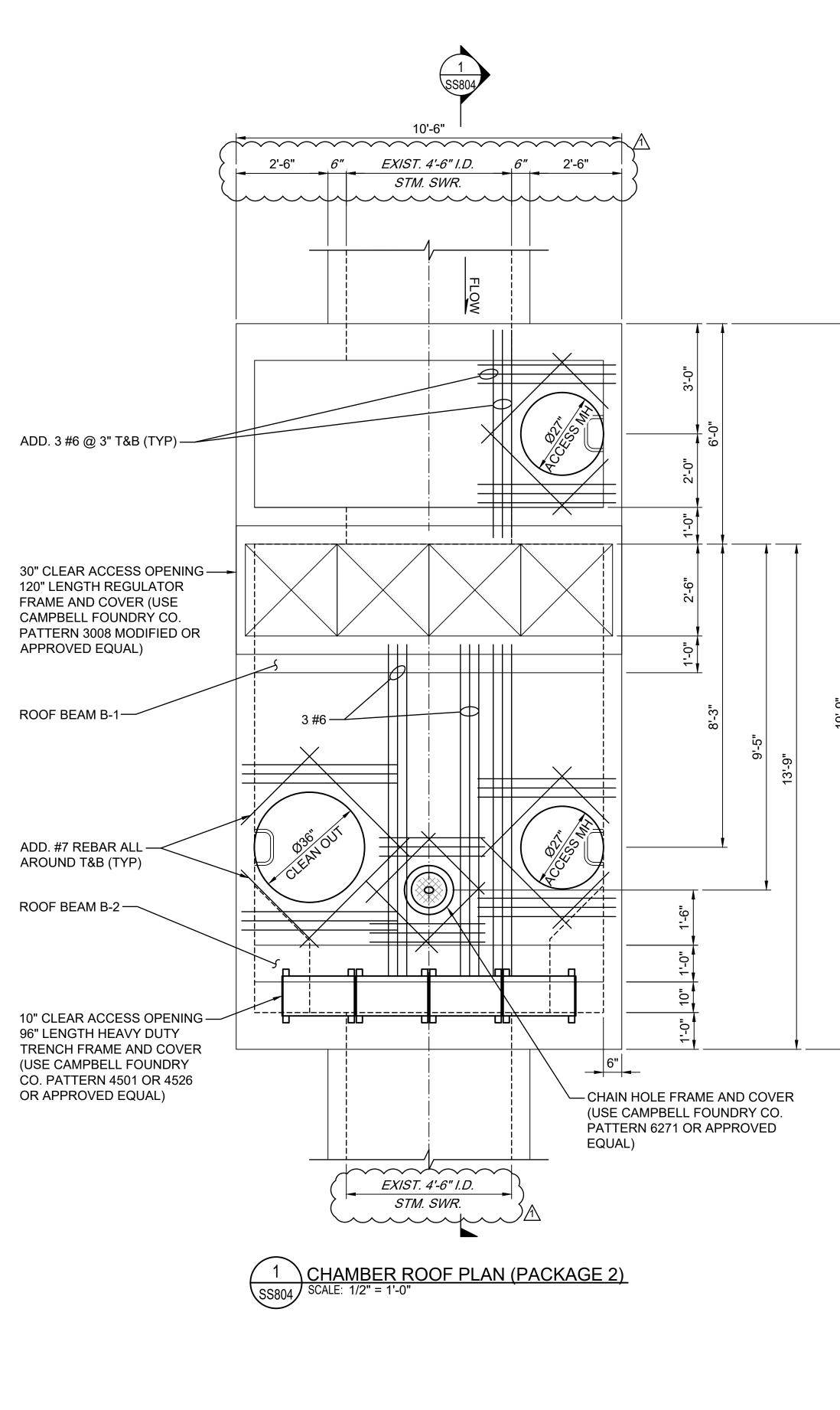
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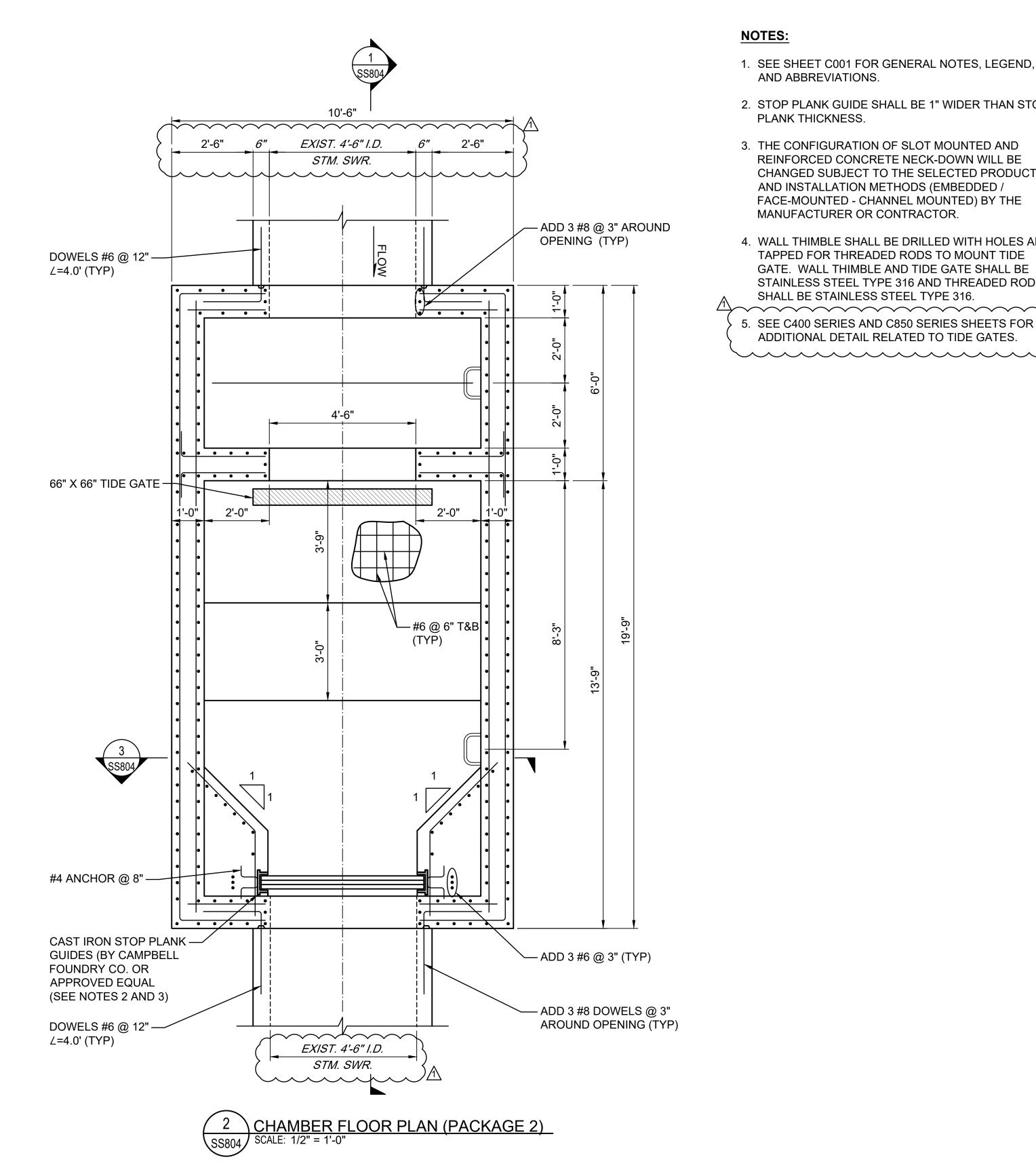
Contract No. 18-2586 SHEET TITLE

> LIGHT POLE DETAILS

SHEET NUMBER

SS602





1. SEE SHEET C001 FOR GENERAL NOTES, LEGEND, AND ABBREVIATIONS.

2. STOP PLANK GUIDE SHALL BE 1" WIDER THAN STOP PLANK THICKNESS.

3. THE CONFIGURATION OF SLOT MOUNTED AND REINFORCED CONCRETE NECK-DOWN WILL BE CHANGED SUBJECT TO THE SELECTED PRODUCTS AND INSTALLATION METHODS (EMBEDDED / FACE-MOUNTED - CHANNEL MOUNTED) BY THE MANUFACTURER OR CONTRACTOR.

4. WALL THIMBLE SHALL BE DRILLED WITH HOLES AND TAPPED FOR THREADED RODS TO MOUNT TIDE GATE. WALL THIMBLE AND TIDE GATE SHALL BE STAINLESS STEEL TYPE 316 AND THREADED RODS SHALL BE STAINLESS STEEL TYPE 316.

5. SEE C400 SERIES AND C850 SERIES SHEETS FOR ADDITIONAL DETAIL RELATED TO TIDE GATES. 

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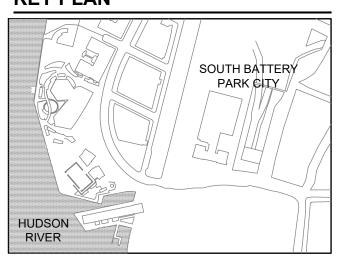
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### **ISSUE/REVISION**

I/R	DATE	DESCRIPTION
Ι	JAN 2022	BID SET
1	JUNE 2022	RESPONSES TO QUESTIONS
		1

Designed By:	L.DIAZ
Drawn By:	F.LIZANO
Checked By:	M.GONSKI
Approved By:	J.CAREL

### **PROJECT/TERM CONTRACT NUMBER**

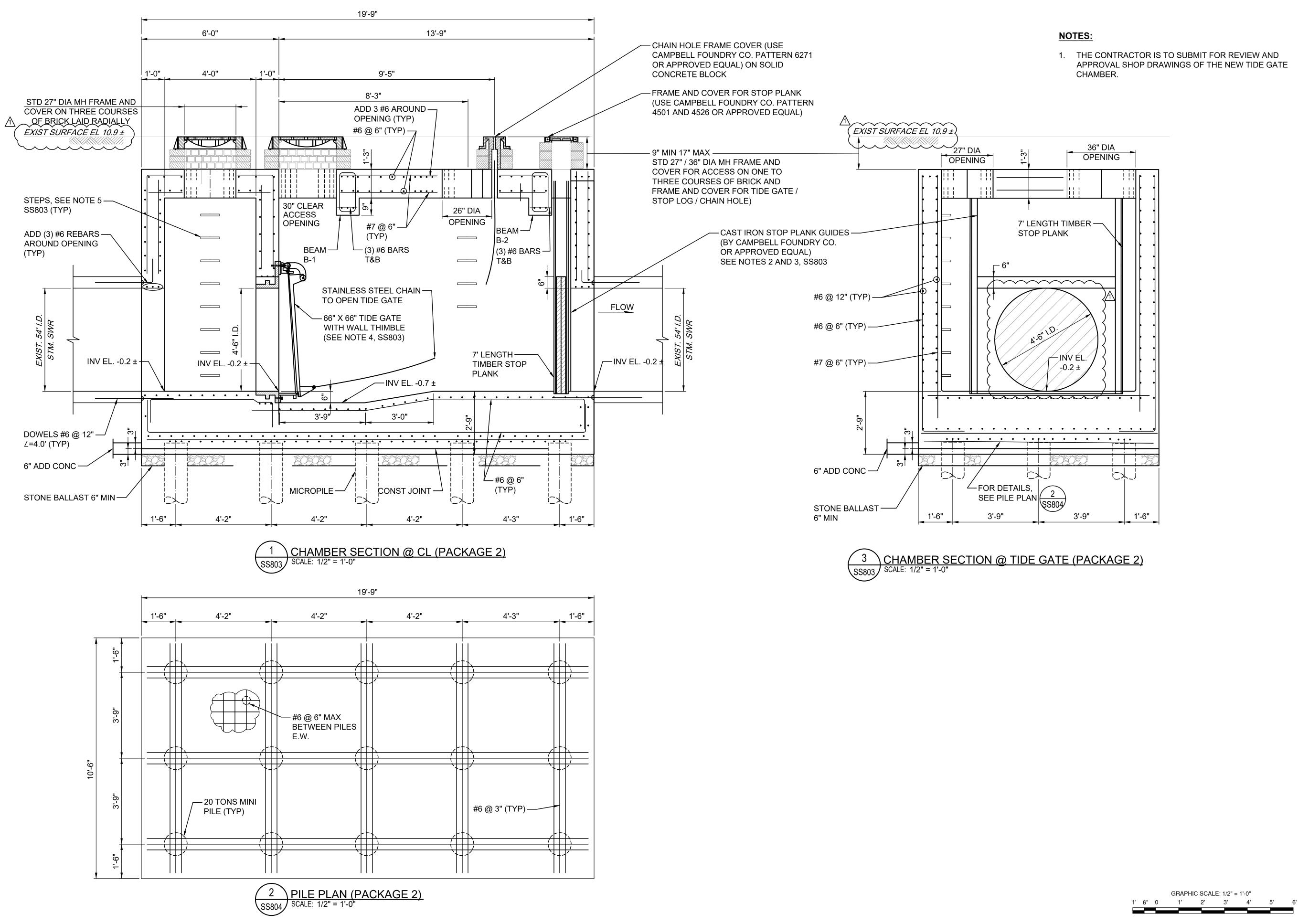
Contract No. 18-2586 SHEET TITLE

> 54-INCH TIDE GATE AT **1ST PLACE DETAILS**

SHEET NUMBER

**SS803** 

GRAPHIC SCALE: 1/2" = 1'-0" 1' 6" 0 1' 2' 3' 4' 5' 6'



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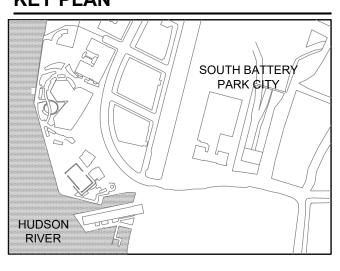
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Designed By:	L.DIAZ
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Checked By:	M.GONSKI
Approved By:	J.CAREL

### **PROJECT/TERM CONTRACT NUMBER**

Contract No. 18-2586 SHEET TITLE

> 54-INCH TIDE GATE AT **1ST PLACE DETAILS**

SHEET NUMBER

SS804

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### <u>ATTACHMENT #2</u> NEW SPECIFICATION #107119.16 – REMOVEABLE FLOOD BARRIERS

(ATTACHED)

### SECTION 107119.16 – REMOVABLE FLOOD BARRIERS

### PART 1 - GENERAL

### 1.01 DESCRIPTION

- A. Drawings and general provisions of the Contract, including General and Special Conditions and Division 01 Specification Sections, apply to this Section.
- B. This work consists of providing all materials, products, accessories, tools, equipment, services, transportation, labor, supervision, and manufacturing techniques required to assemble and install deployable stop log type flood barriers described herein and as shown on the Contract Drawings.

### 1.02 REFERENCES

- A. Unless otherwise noted, the latest edition of the following codes and standards will govern this work. If any conflicts exist between these codes and standards the more restrictive requirements will govern.
- B. The publications listed below form a part of this specification to the extent referenced. The publications are referred to in the text by the basic designation only.
  - 1. Aluminum Association (AA)
    - a. AA Aluminum Design Manual 2010
  - 2. American Institute of Steel Construction (AISC)
    - a. AISC Design Guide 27-2013 Structural Stainless Steel
  - 3. American Society of Civil Engineers (ASCE)
    - a. ASCE 24-05: Flood Resistant Design and Construction
    - b. ASCE 7-05 or 7-10: Minimum Design Loads for Buildings and Other Structures (Including provisions for impact in accordance with Commentary Section C5.4.5)
  - 4. American Society of Mechanical Engineers (ASME)
    - a. ASME Structural Welding Code Section IX.
  - 5. American Welding Society (AWS)
    - a. AWS Structural Welding Code D1, D1.2, D1.3, D1.6.
  - 6. FEMA
    - a. FEMA Technical Bulletin 3-93 Non-Residential Flood proofing

- b. FEMA Flood Proofing Non-Residential Structures #102
- c. FEMA Recommendations on Dry Proofing
- 7. United States Army Corps of Engineers (USACE)
  - a. US Army Corps of Engineers, Flood Proofing Regulations
- 8. New York City Department of Buildings (NYC DOB)
  - a. New York City Building Code (2014)

### 1.03 SUBMITTALS

- A. General: Refer to and comply with Section 013300, "*Submittal Procedures*", for procedures and additional submittal criteria.
- B. Action Submittals
  - 1. QA Submittals: Submit test reports showing compliance with specified performance characteristics.
- C. Informational Submittals
  - 1. Manufacturers Data: Submit installation, operation and maintenance manuals for flood barrier.
  - 2. Shop Drawings: Submit shop drawings approved by a New York State licensed Professional Engineer for flood barriers including dimensional plans, elevations, sections, details for all mountings/connections, and parts list. Contractor to coordinate with foundation and architectural concrete shop drawings as necessary.
  - 3. Calculations: Submit calculations sealed by a New York State licensed Professional Engineer verifying the flood barrier's ability to withstand the design pressure loading.
  - 4. Samples: Provide samples of all permanently installed connection points and cover plates present on building façade or in pavement.

### 1.04 QUALITY ASSURANCE

- A. Perform work in accordance with issued permits, Municipalities (New York City, Battery Park City) and the State of New York, ordinances, and regulations, in accordance with Section 014100.
- B. The manufacturer of the stop log flood barriers must have provided removable stop log flood barriers on at least five (5) installations similar to the requirements of this project
- C. Manufacturer must demonstrate compliance and certification of a Quality Management System administered by the International Organization for Standardization (ISO). Documentation of current certification status to be provided upon request.

### 1.05 SUSTAINABLE DESIGN REQUIREMENTS

A. Sustainable Design Requirements: The Owner requires the Contractor to implement practices and procedures to meet the Project's environmental performance goals, which include achieving ILFI Zero Carbon and WEDG Certification. Refer to Section 018113 - Sustainable Design Requirements for the Project's targets and specific requirements. The Contractor must ensure that the requirements related to the Project's sustainability design goals are implemented to the fullest extent. Substitutions, or other changes to the work proposed by the Contractor or their Subcontractors, must not be allowed if such changes compromise the Project's sustainability goals and ILFI Zero Carbon or WEDG certification.

### 1.06 DELIVERY, STORAGE, AND HANDLING

- A. Components must be undamaged when delivered to site and must be handled and stored so as to prevent damage, including attention to gaskets.
- B. Protect from exposure to damaging liquids, oils and greases, and unnecessary exposure to weather.
- 1.07 WARRANTY
  - A. Provide 1-Year limited warranty against defects in material and workmanship from date of substantial completion.

### PART 2 - PRODUCTS

### 2.01 MATERIALS

- A. Aluminum Beams: Made up from bolted Grade 6063-T6 Aluminum alloy
- B. Intermediate Posts and End Tracks: All posts and tracks must be deployable (i.e. not permanently installed) and be aluminum manufactured from minimum 6005A-T61 alloy.
- C. Sills: Level, smooth concrete or paving per the Contract Drawings.
- D. Bolts must be stainless steel Type 316 complying with ASTM F593A. Nuts must be stainless steel Type 316 complying with ASTM F594. Washers must be stainless steel Type 316.
- E. Plate gaskets must be EPDM, 40 durometer. Panel and track gaskets must be EPDM with a durometer appropriate for the waterproofing needs. Panel and track gaskets must be set without the use of mechanical fasteners.
- F. Sealants: Sealant must be a one-part polysulphide gun-applied sealant and must be compatible with all substrates and field applied in accordance with the manufacturer's recommendations

### 2.02 EQUIPMENT

A. Flood control barrier must provide an effective seal against short term and long-term high-water situations, to the protection level indicated on the drawings.

### REMOVABLE FLOOD BARRIERS

- B. The flood barrier consists of deployable end channels and intermediate posts with removable aluminum beams with integral gaskets.
- C. The flood barrier system must be deployed by hand by a two (2) person team and not require any additional equipment to install the stop log beams or posts aside from hand tools required for tightening the gates. Cranes or telehandlers will not be permitted to be used as a primary method of deployment.
- D. Permanent sleeve anchors in the pavement and concrete walls must be fitted with a tamperproof cap, be flush with the proposed finished grade and comply with the Americans with Disabilities Act (ADA) requirements for uneven surfaces.
- E. The flood barrier must utilize only one set of clamps per span. Systems requiring individual beams to be fixed in place must not be allowed
- F. Barrier beam installation and clamping is to be able to be undertaken from either side of the barrier.
- G. Flood barrier gaskets must be replaceable in the field without the need for specialized tools.
- H. The flood barrier is to be operable on the pavement material indicated on the Contract Drawings. Flood barrier systems must not require a ground beam to be cast in across thresholds.
- I. Storage containers must be provided to compactly house and protect the stoplog components when not in use.
- 2.02 DESIGN
  - A. Design Loads for the Stop Log Flood Panel Systemin accordance with ASCE 24-05 and New York City Building Code Appendix G.
  - B. Stop Log System Flood Panel System must be designed for load combinations in accordance with ASCE 7, Chapter 2.0 (Combinations of Loads), flood loads in accordance with ASCE 7 Section 5.4 (Loads During Flooding), and wind loads in accordance with ASCE 7-05, Chapter 16 or ASCE 7-10 Chapter 26 and 30. Flood loads must be developed based on the Design Flood Elevation indicated on the Contract Drawings and the following:
    - 1. Hydrostatic Loads, caused by water which is either stagnant or moves at velocities less than 5 ft/sec, according with ASCE 24-05, Section 6.2.1 and ASCE 7, Section 5.4.2.
    - 2. Hydrodynamic Loads: Hydrodynamic loads considered with a maximum flow velocity of 5 ft/sec in accordance with ASCE 24-05, Section 6.2.1 (Dry Floodproofing Limitations) and ASCE 7, Section 5.4.3.
    - 3. Wave Loads: Nonbreaking and broken wave loads in accordance with ASCE 7, Section 5.4.4 referencing hydrostatic and hydrodynamic loads.
    - 4. Impact Loads: Impact loads in accordance with ASCE 7, Section 5.4.5 and the Commentary, Section C5.4.5 utilizing a debris weight not less than 500 lbs, a flow velocity of 5.0 ft/sect, an Importance Coefficient not less than 1.0, and a Blockage Coefficient not

greater than 0.20. Values of Rmax must be developed in accordance with ASCE 7 Commentary Section C5.4.5.

- C. Stop Log System Flood Panel System must be designed for a maximum wind load pressure based on the wind speed indicated on the Contract Drawings.
- D. Custom details required for connection points at building façade and pavement. Submit shop drawings and samples of façade connection and pavement connection/ cover plate for review of Architect and Landscape Architect. Custom connection points and cover plates to comply with requirements of Section 057000 "Ornamental Metals" and Section 099000 "Painting and Finishing."
- E. Contractor to coordinate extents of removable flood barrier system with structural foundation design, cast-in-place architectural concrete design, and code required means of egress. Removable flood barrier system shall documented in foundation concrete and architectural concrete shop drawings as necessary.

### PART 3 - EXECUTION

### 3.1 FABRICATION

- A. The finished product must be rigid, neat in appearance, and free from all defects, warps, and buckles. All exposed joints and corners must be well rounded.
- B. The panel and frame must be flat within 1/8" in any 6' length.
- C. All butt welds in frame to be full penetration welds.
- 3.2 INSTALLATION
  - A. Substrate: Verify new and/or existing substrate for compliance with manufacturer's requirements.
  - B. Installation: Install flood barriers in accordance with manufacturer's instructions and approved shop drawings.
  - C. Jambs and mullions must be installed level, square, plumb and rigid.
  - D. Only the designed and provided fixings are to be used in accordance with manufacturers installation instructions.
  - E. Sealants to be applied per product application directions and in accordance with manufacturer's instructions.
- 3.3 FIELD QUALITY CONTROL
  - A. Flood barrier to be operated and field verified including the sealing surfaces to check they maintain the correct level of contact at all points.

- B. A 'paper pull-out test' to be performed on all sealing surfaces to ensure a tight fit and a full height water test is to be undertaken on each gate, with water held against the gate at full design height for 2hours. Any leakage through the gate must be collected and quantified to assess gate performance against specification.
- C. Verify that the barrier assembly operates freely without undue force in installing and removing stop logs.
- D. Verify all anchors are installed in accordance with ACI 318 and the manufacturer's recommendations.

### 3.4 DEMONSTRATION

A. After installation of the gates, the CONTRACTOR and a representative from the gate manufacturer must conduct two training sessions to demonstrate the maintenance and operation of the deployable system.

### END OF SECTION 107119.16

### <u>ATTACHMENT #3</u> REVISED CIVIL DRAWINGS:

C002 – General Notes and Notes C100B – Site Demolition Legend and Flag Notes C101SW – Site Demolition Plan 01 C101SE – Site Demolition Plan 02 C401SW – Storm Drainage Plan 01 C401SE – Storm Drainage Plan 02 C601SW – Water and Sewer Plan 01 C601SE – Water and Sewer Plan 02 C802 – Sections and Details C903 – Storm Drainage Utility Profile C913 – Sewer Utility Profile

(ATTACHED)

### **GENERAL NOTES:**

- SEE SHEETS G004 THROUGH G007 FOR PROJECT SPECIFIC GENERAL NOTES. NOTES CONTAINED HEREIN APPLY TO C SERIES SHEETS. SEE G SERIES SHEETS FOR INFORMATION PERTAINING TO NON-C SERIES SHEETS
- 2. WORK SHALL CONFORM TO THE NYC BUILDING CODE, THE NYC DRAFT STORMWATER MANAGEMENT PROGRAM PLAN (2018), NYC DEP SEWER DESIGN STANDARDS, NYC DEP WATER MAIN DESIGN STANDARDS, AND THE NYC PLUMBING CODE STANDARDS. CONTRACTOR SHALL MAINTAIN A COPY OF THESE DOCUMENTS ON-SITE DURING CONSTRUCTION.
- 3. THE CONTRACTOR IS RESPONSIBLE FOR TRAFFIC CONTROL DURING CONSTRUCTION.
- 4. THE CONTRACTOR SHALL CONTACT DIG SAFELY NEW YORK 811(1-800-272-4480) A MINIMUM OF THREE DAYS PRIOR TO ANY EXCAVATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING THE SERVICES OF A PROFESSIONAL UNDERGROUND UTILITY LOCATION SERVICE TO LOCATE AND MAINTAIN MARKINGS THAT INDICATE LOCATIONS OF UNDERGROUND UTILITIES IN THE CONSTRUCTION AREA.
- SANITARY, CSO, AND STORM SEWER OUTFALLS AND DEP PIPES WITHIN THE 5. PROJECT LIMITS SHALL BE CLEANED AND TELEVISED (CCTV INSPECTIONS) BOTH PRIOR TO AND AFTER CONSTRUCTION IN ACCORDANCE WITH DEP CSI (COLLECTION SYSTEM INVESTIGATION) STANDARDS. CONTRACTOR SHALL COORDINATE WITH DEP CSI BEFORE PERFORMING CCTV OF THE SEWERS. PLEASE CONTACT TERRANCE BROCK (TBROCK@DEP.NYC.GOV). REPORTS OF INSPECTION SHALL BE SUBMITTED TO DEP FOR REVIEW. DEP INFRASTRUCTURE IMPACTED BY CONTRACTOR SHALL BE REPLACED/RELOCATED IN ACCORDANCE WITH DEP REQUIREMENTS.
- 6. FLOOD ALIGNMENT PROVIDED HEREIN FOR REFERENCE ONLY. NOTE THAT PORTIONS OF THE ALIGNMENT ARE ON THE SURFACE AND OTHERS ARE UNDERGROUND. SEE STRUCTURAL PLANS FOR DETAILS.
- 7. WALL PENETRATION FOR STORM DRAIN, WATER, AND SANITARY SEWER PIPING SHALL BE IN ACCORDANCE WITH THE STRUCTURAL DOCUMENTS, UNLESS NOTED OTHERWISE.
- 8. PROJECT DATUM:
  - A. COORDINATES SHOWN HEREON ARE REFERENCED TO THE NEW YORK STATE PLANE COORDINATE SYSTEM NYLI NAD 83 AS ESTABLISHED BY GPS METHODS. THESE VALUES HAVE BEEN SCALED TO GROUND AND SUBJECT TO TRAVERSE ADJUSTMENT.
  - B. ELEVATIONS SHOWN HEREON ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88) AS ESTABLISHED BY GPS METHODS.

### SITE DEMOLITION NOTES:

- 1. SEE DRY UTILITY DEMOLITION PLANS, SE SHEETS, FOR DEMOLITION OF DRY UTILITIES ACROSS THE PROJECT
- 2. SEE SITE MEP PLANS, SPF SHEETS, FOR DEMOLITION OF EXISTING IRRIGATION UTILITIES AND APPURTENANCES
- 3. SEE PAVILION DEMOLITION PLANS, DM SHEETS, FOR DETAILS ON REMOVAL AND DEMOLITION OF EXISTING PAVILION ELEMENTS.
- 4. SEE RIGHT-OF-WAY DEMOLITION PLANS, MT SHEETS, FOR DEMOLITION WITHIN THE RIGHT OF WAY, AND FOR TESC DRAWINGS.
- 5. THE CONTRACTOR SHALL PROVIDE, ERECT AND MAINTAIN ALL TEMPORARY BARRIERS AND SECURITY DEVICES AS NECESSARY FOR THE PROTECTION OF THE ADJACENT PUBLIC IMPROVEMENTS WITHIN THE STREET RIGHT-OF-WAYS.
- 6. SEE IRRIGATION PLANS, I SHEETS, AND SPECIFICATIONS FOR IRRIGATION DEMOLITION AND TEMPORARY IRRIGATION.
- 7. SEE TREE PROTECTION PLANS, L SHEETS, AND SPECIFICATIONS FOR CARE. TRANSPLANTING AND PROTECTION OF EXISTING PLANTS TO REMAIN.
- 8. THE CONTRACTOR SHALL COORDINATE THE REMOVAL, ABANDONMENT AND/OR CAPPING OF EXISTING UTILITIES WITH THE APPLICABLE UTILITY AGENCY. INCLUDING BUT NOT LIMITED TO:
  - A. EXISTING WATER CONNECTIONS, NEW YORK CITY DEPARTMENT OF ENVIRONMENTAL PROTECTION.
  - B. EXISTING SANITARY SEWER, NEW YORK CITY DEPARTMENT OF ENVIRONMENTAL PROTECTION.
  - C. EXISTING STORM DRAINAGE. NEW YORK CITY DEPARTMENT OF ENVIRONMENTAL PROTECTION.
- 9. EXCAVATION FOR REMOVAL OF UTILITIES SHALL BE IN ACCORDANCE WITH THE PROJECT'S GEOTECHNICAL ENGINEERING REPORT PREPARED BY OWEIS ENGINEERING. A DRAFT GEOTECHNICAL REPORT WAS PROVIDED ON 05/12/2020.
- 10. THE CONTRACTOR SHALL COMPLY WITH THE REPORT RECOMMENDATIONS FOR TEMPORARY CONSTRUCTION SLOPES AND SHALL NOT EXCEED THOSE SLOPES WITHOUT PRIOR APPROVAL OF THE GEOTECHNICAL ENGINEER.
- 11. CAP OR PLUG UTILITY SERVICES AT THE LIMITS OF EXCAVATION OR AT THE LIMITS OF DEMOLITION, UNLESS NOTED OTHERWISE.
- 12. ABANDON PIPES AND STRUCTURES SHOWN HEREON ACCORDING TO NYC DEP STANDARD SPECIFICATION SECTION 72.11.

### SITE DEMOLITION NOTES CONT .:

- 13. ABANDONMENT OF UTILITY PIPELINES SMA SHALL REQUIRE CAPPING OR PLUGGING O NOTED OTHERWISE.
- 14. REMOVE EXISTING PAVEMENTS AND WALK MATERIAL TO FULL DEPTH.
- 15. REMOVE EXISTING PAVERS AND CRUSHED AND SUBBASE MATERIAL TO FULL DEPTH.
- 16. PROTECT ALL EXISTING STRUCTURES AND THE LIMITS OF WORK DURING CONSTRUC CONTRACTOR SHALL PROVIDE TEMPORAR ORDER TO AVOID IMPACTS TO EXISTING ST **RETAINING WALLS.**
- 17. PROTECT ALL EXISTING UTILITIES INDICATI ALL TIMES DURING CONSTRUCTION. CONT TEMPORARY SHORING AS REQUIRED TO E UTILITIES AND APPURTENANCES TO REMA VERIFY EXISTING CONDITIONS PRIOR TO C OPERATIONS AND NOTIFY THE OWNER'S R DISCREPANCIES.
- 18. THE CONTRACTOR SHALL REPLACE PAVEN THAT HAS BEEN REMOVED OR DAMAGED F
- 19. MONITORING WELLS, IF ENCOUNTERED, SH ACCORDANCE WITH THE CITY OF NEW YOF
- 20. ITEMS SPECIFIED FOR SALVAGE ARE FOR LIMITS. CONTRACTOR SHALL COORDINATE ADDITIONAL SALVAGE REQUIREMENTS.
- 21. SALVAGE AND PROTECT THE FOLLOWING A. BLUE STONE AND TAPESTRY STONE
  - PAVEMENTS, CURBS, WALLS, CLADI WOOD AS NOTED ON DRAWINGS (SI
  - ON EXISTING BUILDING).
  - C. BENCHES AS NOTED ON DRAWINGS D. FLAG POLES AND BASES.
- 22. SEE LANDSCAPING PLANS FOR REUSE OF PROJECT LIMITS.
- 23. SEE STRUCTURAL PLANS FOR ADDITIONAL BULKHEAD, RELIEVING PLATFORM, AND RA
- 24. SEE LANDSCAPING PLANS FOR RESTORAT EXISTING HISTORICAL BULKHEAD DEMARC
- 25. RELOCATED FIRE HYDRANTS SHALL BE OP DISCONNECTION OF EXISTING FIRE HYDRA

### SITE PAVING SECTION NOTES:

- 1. DIMENSIONS AND COORDINATES ARE TO BUILDING, FACE OF WALL, OR LIMIT OF PA NOTED OTHERWISE.
- 2. APPLY A BITUMINOUS TACK COAT AT LOC PAVEMENT ABUTS ANY BUILDING STRUC OTHER PAVEMENT TYPE.
- 3. CONCRETE FOR EXTERIOR SITE FACILITI TO CURBS, SIDEWALKS, PAVING PADS, T AND BOLLARD FOUNDATIONS, RAMPS, AN **BE IN ACCORDANCE WITH SPECIFICATIOI** "CAST-IN-PLACE CONCRETE" AND SHALL STRENGTH OF 3,000 PSI AT 28 DAYS. MAX SHALL BE 0.45 AND CONCRETE SHALL HA AIR ENTRAINMENT. CONCRETE BASE FOR **PAVING SHALL CONFORM TO CLASS A-40** ACCORDANCE WITH NEW YORK CITY DEF STANDARD HIGHWAY SPECIFICATIONS S CONCRETE BASE FOR PAVEMENT SHALL ACCORDANCE WITH NEW YORK CITY DEP STANDARD HIGHWAY SPECIFICATIONS S FOR PAVEMENT." CONCRETE FOR PAVIN ACCORDANCE WITH NEW YORK CITY DEP STANDARD HIGHWAY SPECIFICATIONS S PAVEMENT."
- 4 PROVIDE AN EXPANSION JOINT AT LOCA OR CONCRETE PAVEMENT ABUT STRUC WALL, AND FIXED OBJECTS.

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- 5. EXTERIOR CONCRETE PAVEMENT JOINTS JOINTS WITH A MAXIMUM SPACING OF X OF CONCRETE IN FEET X 24) FEET ON CE TO WIDTH RATIO SHALL NOT EXCEED 1.2 CONTRACTOR MAY SUBSTITUTE CONSTR PLANE [CONTROL] JOINTS. JOINTS SHALL LANDSCAPE PLANS.
- 6. SEE LANDSCAPE PLANS FOR PAVEMENT
- 7. SEE CIVIL MAINTENANCE AND TRAFFIC PROTECTION DRAWINGS FOR DETAILS ON SITE ELEMENTS LOCATED WITH THE NEW YORK CITY DEPARTMENT OF TRANSPORTATION RIGHT OF WAY.

	<u>GR</u>	ADING NOTES:	<u>WA</u>	TER NOTES CONT:
ALLER THAN 12 INCHES IN DIAMETER OF THE PIPE ENDS ONLY, UNLESS	1.	SPOT ELEVATIONS ARE TO TOP OF PAVEMENT, GUTTER ELEVATION, BOTTOM OF WALL, OR FINISHED GRADE UNLESS NOTED OTHERWISE.	4.	PROVIDE RESTRAINI BENDS IN ACCORDA
KS, BASE COURSE, AND SUBBASE	2.	CURB AND/OR WALL REVEAL WHERE ADJACENT TO PLANTING ZONES AND/OR WALKING SURFACES SHALL BE 4 INCHES UNLESS NOTED OTHERWISE. REFER TO $10$ FOR A SCHEMATIC DETAIL.		MAIN DETAILS AND S WITHIN THE PUBLIC FOR WATER AND RE WITHIN PRIVATE PRO
D ROCK SURFACING, BASE COURSE, I.	<u>1</u> 3.	$\sqrt{\frac{3}{2811}}$ FOR UTILITIES TO REMAIN, ADJUST UTILITY ACCESS COVERS TO FINISH		AND PLAN DOCUME RESTRAINT. THE CO VERTICAL THRUST E
ID FOUNDATIONS TO REMAIN WITHIN CTION UNLESS NOTED OTHERWISE. RY SHORING AS REQUIRED IN	4.	GRADE. TOP ELEVATION FOR VAULTS SHALL MATCH FINISH GRADE. SLOPE VAULT		THE THRUST BLOCK SEE SPECIFICATION
STRUCTURES, FOUNDATIONS AND	5.	LIDS AS REQUIRED. SLOPES ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY. CONSTRUCTION SHALL BE BASED ON SPOT ELEVATIONS.	5.	CAPPED WATER LINE COORDINATE POINT ARE TO THE CENTER
NTRACTOR SHALL PROVIDE ENSURE ADEQUATE PROTECTION OF	<u>ST</u>	ORM DRAINAGE NOTES:	6.	THE CONTRACTOR
AIN. CONTRACTOR SHALL FIELD COMMENCEMENT OF DEMOLITION REPRESENTATIVE OF ANY	1.	LENGTHS OF PIPING SHOWN ON STORM DRAIN ARE FROM CENTER OF STRUCTURE, FITTING OR POINT OF INTERSECTION AND ARE SHOWN FOR INFORMATION ONLY. ALL PIPING SHALL BE INSTALLED AT THE LOCATION SHOWN ON THE PLANS AND LOCATED BY COORDINATES OR		CROSSINGS PRIOR INSTALLATION. TREN SHALL CONFORM TO SPECIFICATIONS AN STANDARD SEWER
EMENT MARKINGS AND/OR SIGNAGE FROM CONSTRUCTION ACTIVITIES.	0	DIMENSIONS.VERIFY LOCATIONS OF LATERAL BUILDING CONNECTIONS WITH THE PLUMBING DRAWINGS PRIOR TO INSTALLATION.	7.	UTILITY CROSSINGS CONTRACTOR'S INFO
SHALL BE DECOMMISSIONED IN ORK REQUIREMENTS.	2.	TRENCH DRAIN GRATES SHALL BE LOCKING QUE CAST BRONZE BY IRON AGE DESIGNS, UNLESS NOTED OTHERWISE.		SHALL VERIFY EXIS UTILITY SYSTEM INS
R REUSE WITHIN THE PROJECT TE WITH THE OWNER REGARDING	3.	STORM DRAINAGE DETAILS ARE FOR A PRIVATE DRAIN SYSTEM. FOR NYC DEP OWNED STORM DRAINAGE AND MANHOLE DETAILS SEE NYC DEP STANDARD DETAILS OF CONSTRUCTION.	8.	WATER AND REUSE GREATER THAN OR PIPES SMALLER THA
G FOR REUSE ON SITE: NE, INCLUDING BUT NOT LIMITED TO DDING, AND STEPS.	4.	HYDRODYNAMIC SEPARATORS SHALL BE SIZED ACCORDING TO THE FOLLOWING REQUIREMENTS: A. HDS1-1-1: TREATMENT FLOW RATE - 2.50 CFS, SQUARE STRUCTURE	9.	WATER AND REUSE MINIMUM COVERS:
SEE DEMOLITION NOTE 3 FOR WOOD	[.	<ul> <li>B. HDS3-1-1: TREATMENT FLOW RATE - 1.25 CFS, ROUND STRUCTURE</li> <li>C. HDS6-1-1: TREATMENT FLOW RATE - 1.25 CFS, ROUND STRUCTURE</li> <li>D. HDS7-1-1: TREATMENT FLOW RATE - 0.50 CFS, ROUND STRUCTURE</li> <li>E. HDS8-1-1: TREATMENT FLOW RATE - 1.75 CFS, ROUND STRUCTURE</li> </ul>		<8 INCH PIPE 8-INCH PIPE - 10-INCH PIPE 12-INCH PIPE
F SITE SALVAGE ITEMS WITHIN THE	$\langle \rangle$	<ul> <li>F. HDS9-1-1: TREATMENT FLOW RATE - 2.50 CFS, ROUND STRUCTURE</li> <li>G. HDS10-1-1: TREATMENT FLOW RATE - 1.25 CFS, ROUND STRUCTURE</li> <li>H. HDS11-1-1: TREATMENT FLOW RATE - 2.00 CFS, ROUND STRUCTURE</li> </ul>	10.	PIPES AND FITTINGS
AL INFORMATION ON EXISTING RAILING REMOVAL.	5.	METAL DRAINAGE HARDWARE IDENTIFIED IN SECTIONS AND DETAILS SHALL BE SS316 OR GALVANIZED STEEL, UNLESS NOTED OTHERWISE.	11.	AND/OR WHERE THE
TION AND REPLACEMENT OF	6.	PIPE LOCATED WITHIN MAPPED STREETS SHALL BE IN ACCORDANCE WITH NYC DEP SEWER DESIGN STANDARDS. PIPE LOCATED WITHIN THE BATTERY		IN PARALLEL, WITH A APPLY TO BOTH LINE DOMESTIC LINE, HO
PERATIONAL PRIOR TO RANTS.	> > >	PROPERTY SHALL BE IN ACCORDANCE WITH NYC DPR STANDARDS. PIPE LOCATED IN OTHER AREAS THAN NOTED ABOVE SHALL BE A MATERIAL IDENTIFIED WITHIN THE PROJECT SPECIFICATIONS.		CAN BE OBTAINED B LINE N/E, UNLESS NO
	<u>SU</u>	BDRAINAGE NOTES:	12.	WHERE A NON-STAN PROVIDE A COMBINA
O FACE OF CURB, FACE OF PAVEMENT SECTION, UNLESS	1.	LENGTHS OF PIPING SHOWN ON SUBDRAINAGE ARE FROM CENTER OF STRUCTURE, FITTING OR POINT OF INTERSECTION AND ARE SHOWN FOR INFORMATION ONLY. ALL PIPING SHALL BE INSTALLED AT THE LOCATION		45°), PLUS ALLOWAE
OCATIONS WHERE ASPHALT CTURE, UTILITY APPURTENANCE OR		SHOWN ON THE PLANS AND LOCATED BY COORDINATES OR DIMENSIONS.	13.	HYDRANTS ORDERE HYDRANTS; AND, EX
	2.	SUBDRAINAGE DETAILS ARE FOR A PRIVATE DRAIN SYSTEM. FOR NYC DEP OWNED STORM DRAINAGE AND MANHOLE DETAILS SEE NYC DEP STANDARD DETAILS OF CONSTRUCTION.		ADJUSTED TO NEW TO NEW OR EXISTIN "BREAKAWAY" HYDR
TIES, INCLUDING BUT NOT LIMITED THRUST BLOCKING, FENCE POST AND UTILITY STRUCTURES SHALL	WA	ATER NOTES:		LATEST REVISIONS ( 43142-Z, RESPECTIV SECTION 2.08 – STAN
ON SECTION 033000, L HAVE A MINIMUM COMPRESSIVE XIMUM WATER/CEMENT RATIO	1.	WATER AND REUSE WATER MATERIALS AND CONSTRUCTION SHALL CONFORM TO NYC DEP STANDARD SEWER AND WATER MAIN	<b>6</b> V V	HYDRANTS AND EXT
IAVE 5 PLUS OR MINUS 0.5 PERCENT OR PAVEMENT AND CONCRETE FOR 10, TYPE 1A CONCRETE IN		SPECIFICATIONS FOR WATER LINES INSTALLED WITHIN THE PUBLIC RIGHT OF WAY. FOR WATER AND REUSE WATER MATERIALS AND CONSTRUCTION WITHIN PRIVATE PROPERTY, REFER TO THE PROJECT SPECIFICATIONS AND DUAN DOCUMENTATION		SANITARY SEWER M
EPARTMENT OF TRANSPORTATION SECTION 3.05, "CONCRETE." L BE CONSTRUCTED IN	2.	PLAN DOCUMENTATION. SEE NOTE 9 FOR TYPICAL COVER OVER WATER AND REUSE WATER LINES. MAINTAIN A MINIMUM OF 12 INCHES CLEAR AT CROSSINGS WITH UTILITIES	2.	SANITARY SEWER P UNLESS NOTED OTH
EPARTMENT OF TRANSPORTATION SECTION 4.04, "CONCRETE BASE ING SHALL BE CONSTRUCTED IN EPARTMENT OF TRANSPORTATION		OTHER THAN SANITARY SEWER LINES. WATER AND REUSE WATER LINES SHALL PASS UNDER THE OTHER UTILITY IF THE MINIMUM SPECIFIED COVER CANNOT BE OBTAINED.	3.	TRENCHING FOR SA STANDARD SEWER A BEDDING SHALL COI
SECTION 4.05, "CONCRETE	3.	MAINTAIN A MINIMUM OF 18 INCHES CLEAR BETWEEN CROSSINGS OF WATER AND REUSE WATER LINES AND SANITARY SEWER LINES. WATER AND REUSE		WATER MAIN SPECIE 48 INCHES IN DIAME
ATIONS WHERE CONCRETE WALK CTURAL FOUNDATION, COLUMN OR		WATER LINES SHALL CROSS ABOVE SANITARY SEWER LINES. PROVIDE HORIZONTAL AND VERTICAL BENDS WHERE INDICATED. WHERE A POINT OF INTERSECTION (HORIZONTAL OR VERTICAL) IS SHOWN AND THE DEFLECTION ANGLE IS MORE OR LESS THAN A STANDARD BEND, USE A COMBINATION OF		
TS SHALL BE WEAKENED PLANE K (SPACING SHALL BE THICKNESS CENTER. PAVEMENT PANEL LENGTH .25. AT THE CONTRACTOR'S OPTION, IRUCTION JOINTS FOR WEAKENED LL BE COORDINATED WITH		THE STANDARD BEND AND JOINT DEFLECTION OF THE PIPE TO MEET THE ALIGNMENT SHOWN. MAXIMUM JOINT DEFLECTION IS 3 DEGREES OR THE MAXIMUM THAT IS RECOMMENDED BY THE PIPE MANUFACTURER, WHICHEVER IS SMALLER.		
T MATERIALS, COLOR, AND FINISH.				
PROTECTION DRAWINGS FOR				

IT IS A VIOLATION OF TITLE VIILARTICLE 145. SECTION 7209.2 OF THE NEW YORK STATE EDUCATION LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER. TO ALTER IN ANY WAY, PLANS, SPECIFICATIONS, PLATS OR REPORTS TO WHICH THE SEAL OF A PROFESSIONAL FORGINEER HAS REEN APPLIED. IE AN ITEM BEARING THE SEAL OF A PROFESSIONAL ENGINEER IS ALTERED. THE ALTERING ENGINEER SHALL AFEIX TO THE ITEM HIS SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY HIS/HER SIGNATURE. THE DATE AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

RAINED JOINTS AT ALL HORIZONTAL AND VERTICAL DRDANCE WITH NYC DEP STANDARD SEWER AND WATER AND SPECIFICATIONS FOR WATER LINES INSTALLED BLIC RIGHT OF WAY AND WITHIN PRIVATE PROPERTY. ID REUSE WATER MATERIALS AND CONSTRUCTION E PROPERTY, REFER TO THE PROJECT SPECIFICATIONS UMENTATION FOR ADDITIONAL THRUST BLOCKING E CONTRACTOR MAY ELIMINATE HORIZONTAL AND/OR UST BLOCKING AT LOCATIONS WHERE INSTALLATION OF LOCKING WILL INTERFERE WITH OTHER CONSTRUCTION. TION FOR REQUIREMENTS.

R LINES OR TEES SHALL HAVE RESTRAINED JOINTS. POINTS AND ELEVATIONS SHOWN FOR ALL MANHOLES ENTER OF THE MANHOLE, UNLESS NOTED OTHERWISE

TOR SHALL VERIFY EXISTING AND NEW UTILITY RIOR TO WATER AND SANITARY SEWER SYSTEM TRENCHING FOR WATER AND REUSE WATER LINES RM TO NYC DEP STANDARD SEWER AND WATER MAIN IS AND PIPE BEDDING SHALL CONFORM TO NYC DEP VER AND WATER MAIN SPECIFICATIONS

INGS SHOWN ON THE UTILITY PROFILES ARE FOR THE SINFORMATION AND REFERENCE. THE CONTRACTOR EXISTING AND NEW UTILITY CROSSINGS PRIOR TO M INSTALLATION.

EUSE WATER LINES SHALL BE DUCTILE IRON FOR PIPES I OR EQUAL TO 3 INCHES, AND TYPE K COPPER FOR THAN 3 INCHES.

EUSE WATER LINES SHALL BE LAID WITH THE FOLLOWING

PIPE - MINIMUM 4'-0" OF COVER PIPE - MINIMUM 3'-9" OF COVER PIPE - MINIMUM 3'-7" OF COVER PIPE - MINIMUM 3'-5" OF COVER

TINGS FOR PROPOSED WATER LINES TO BE EQUIPPED NED JOINTS WHERE LOCATED IN/OR NEAR GEOFOAM E THRUST BLOCKS CANNOT BE USED.

ND DOMESTIC WATER DISTRIBUTION LINES ARE SHOWN, VITH A 2' CENTERLINE OFFSET. PIPE DIMENSIONS SHOWN H LINES, WHILE N/E DIMENSIONS APPLY TO THE . HORIZONTAL LOCATION FOR THE REUSE WATER LINE IED BY APPLYING A 2' OFFSET FROM SHOWN DOMESTIC SS NOTED OTHERWISE.

STANDARD FITTING ANGLE IS REFERENCED IN THE PLAN, MBINATION OF STANDARD FITTINGS (11 1/4°, 22 1/2°, AND WABLE PIPE DEFLECTION. IN ORDER TO MEET ΓING ANGLE.

DERED INSTALLED OR REQUIRED TO REPLACE EXISTING D, EXISTING HYDRANTS ORDERED RETAINED AND NEW GRADE, REMOVED AND RESET, OR RECONNECTED ISTING WATER MAINS SHALL BE TWO-PIECE HYDRANTS, TYPES S-2-LP OR D-2-LP, AS SHOWN ON THE ONS OF BWSO STANDARD DRAWING NOS. 43250-Z OR ECTIVELY, AND AS SPECIFIED IN ACCORDANCE WITH STANDARD SPECIFICATIONS FOR DRY BARREL FIRE DEXTENSION KITS

NOTES:

ER MATERIALS AND CONSTRUCTION SHALL CONFORM DARD SEWER AND WATER MAIN SPECIFICATIONS.

ER PIPING SHALL BE REINFORCED CONCRETE PIPING OTHERWISE.

OR SANITARY SEWERS SHALL CONFORM TO NYC DEP NER AND WATER MAIN SPECIFICATIONS AND PIPE L CONFORM TO NYC DEP STANDARD SEWER AND PECIFICATIONS. SANITARY SEWER MANHOLES SHALL BE IAMETER, UNLESS NOTED OTHERWISE.

# AECOM

PROJECT SOUTH BATTERY PARK CITY **RESILIENCY DESIGN** SERVICES CLIENT

HUGH L. CAREY BATTERY PARK CITY **AUTHORITY** CONSULTANT

AECOM

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### REGISTRATION

### **ISSUE/REVISION**

2	JUNE 2022	<b>RESPONSES TO QUESTIONS</b>
l/R	DATE	DESCRIPTION

Designed By:	B. DUPUY
Drawn By:	J. POPE
Checked By:	S. HALUSCHAK
Approved By:	M. JONES

### **PROJECT/TERM CONTRACT NUMBER**

Contract No. 18-2586 SHEET TITLE

> **GENERAL NOTES** AND NOTES

### **ITEMS TO REMAIN**

### SURFACE ELEMENTS TO BE REMOVED OR SALVAGED

		-		
FLAG	DESCRIPTION		FLAG	
	EXISTING BUILDING TO REMAIN	-	S1	REMOVE EXI DEMOLITION
2	EXISTING FENCE TO REMAIN		S2	REMOVE EXI
$\sqrt{3}$	EXISTING WALL TO REMAIN		$\langle S3 \rangle$	REMOVE EXI DEMOLITION
4	EXISTING CURB TO REMAIN		$\langle S4 \rangle$	REMOVE EXI
5	EXISTING PAVEMENT TO REMAIN		<b>S5</b>	REMOVE EXI
6	EXISTING CURB RAMP TO REMAIN		$\left< S6 \right>$	REMOVE ANI DEMOLITION
$\langle 7 \rangle$	EXISTING PLANTER TO REMAIN		S7	REMOVE ANI SITE, SEE SI
8	EXISTING VENT TO REMAIN		$\langle S8 \rangle$	REMOVE ANI STONE, SEE
9	EXISTING BIKE RACK TO REMAIN		S9	REMOVE EXI
	EXISTING BENCH TO REMAIN		<b>S10</b>	REMOVE EXI
	EXISTING STONE CURB TO REMAIN		<b>S11</b>	REMOVE EXI
12	EXISTING TUNNEL TO REMAIN		<b>S12</b>	REMOVE EXI
13	EXISTING STORM SEWER PIPE OR STRUCTURE TO REMAIN		<b>S13</b>	REMOVE EXI NOTES 20 TH
14	EXISTING POLE TO REMAIN		<b>S14</b>	REMOVE HIS DEMOLITION
15	EXISTING MONUMENT TO REMAIN		<b>S15</b>	REMOVE EXI
16	EXISTING WATER PIPE OR STRUCTURE TO REMAIN		<b>S16</b>	REMOVE EXI
	EXISTING SITE FEATURE TO REMAIN		<b>S17</b>	REMOVE EXI
18	EXISTING SANITARY SEWER PIPE OR STRUCTURE TO REMAIN		<b>S18</b>	REMOVE EXI
19	EXISITING SIGN TO REMAIN		<b>S19</b>	REMOVE EXI THROUGH 2
20>	EXISTING BULKHEAD TO REMAIN		(S20)	REMOVE EXI LINES, AND A
21	EXISTING BOLLARD TO REMAIN		S21	REMOVE EXI
22	EXISTING STAIRS TO REMAIN		<b>S22</b>	REMOVE EXI FOUNDATION
23	EXISTING TREE PIT TO REMAIN		<b>S23</b>	REMOVE EXI
24	EXISTING VAULT TO REMAIN		<b>S24</b>	REMOVE ANI 20 THROUGH
25	EXISTING LIGHT POLE AND PILLAR TO REMAIN		<b>S25</b>	REMOVE PLA EXISTING WA
26	EXISTING GRADE BEAM AND PILE CAPS TO REMAIN		<b>S26</b>	REMOVE ANI
27>	EXISTING RELIEVING PLATFORM TO REMAIN		<b>S27</b>	REMOVE WO
28	EXISTING FOUNTAIN TO REMAIN		<b>S28</b>	REMOVE ANI
29	EXISTING SANITARY SEWER PIPE TO BE ABANDONED		(S29)	REMOVE EXI
$\sim$	2		<b>S30</b>	REMOVE AND DEMOLITION
			<b>S</b> 31	REMOVE AND DEMOLITION

### DESCRIPTION

XISTING WALL AND FOUNDATION, SEE SITE ON NOTES 20 THROUGH 22

XISTING FENCE POSTS AND POST FOUNDATIONS

XISTING LIGHT POLE AND PILLAR, SEE SITE ON NOTES 20 THROUGH 23

XISTING CONCRETE CURB

XISTING BENCH

ND SALVAGE EXISTING GRANITE, SEE SITE

ON NOTES 20 THROUGH 22 ND SALVAGE FLAG POLE AND BASE FOR REUSE ON

SITE DEMOLITION NOTE 21 ND SALVAGE EXISTING BLUE STONE AND TAPESTRY E SITE DEMOLITION NOTES 20 THROUGH 22

XISTING RAMP

XISTING METAL EDGING

XISTING BIKE RACK

XISTING CONCRETE BLOCK

XISTING PLANTER WALL, SEE SITE DEMOLITION THROUGH 22 ISTORICAL BULKHEAD MARKER, SEE SITE ON NOTE 24

XISTING METAL CYLINDER

XISTING POLE AND FOUNDATION

XISTING BULKHEAD, SEE SITE DEMOLITION NOTE 23

XISTING RAILING

XISTING STEPS, SEE SITE DEMOLITION NOTES 20 22

XISTING FOUNTAIN, FOUNDATIONS, DRAINS, WATER ) APPURTENANCES

XISTING TREE PIT

XISTING BUILDING, APPURTENANCES, AND ON, SEE SITE DEMOLITION NOTES 20 THROUGH 22

XISTING BOLLARDS AND FOUNDATIONS

ND SALVAGE WOOD, SEE SITE DEMOLITION NOTES GH 22

LANTER WALL, PILE CAPS, AND GRADE BEAM. MATCH WALL FINISH/APPEARANCE AT REMOVED EDGE

ND SALVAGE EXISTING ARTWORK, SEE LARCH

OODEN SITE ELEMENT

ND SALVAGE EXISTING BENCH

XISTING STONE

ND SALVAGE EXISTING RIVER BENCH, SEE SITE ON NOTES 20 THROUGH 22

ND SALVAGE EXISTING GRANITE CURB, SEE SITE DEMOLITION NOTES 20 THROUGH 22

### UTILITIES TO BE REMOVED, RELOCATED, OR SALVAGED

FLAG	DESCRIPTION
$\langle U1 \rangle$	REMOVE EXISTING WATER PIPE
$\langle U2 \rangle$	REMOVE EXISTING UTILITY VAULT
(U3)	REMOVE EXISTING STORM SEWER PIPE OR STRUCTURE
$\langle U4 \rangle$	REMOVE EXISTING SANITARY SEWER PIPE OR STRUCTUR
<b>U</b> 5	REMOVE EXISTING WATER METER/VALVE

- $\langle U6 \rangle$ REMOVE EXISTING HYDRANT
- $\left\langle U7\right\rangle$ REMOVE EXISTING TRENCH DRAIN

REMOVE AND SALVAGE WAVE PATTERN TRENCH DRAIN GRATE **U**8 FOR REUSE ONSITE, SEE SITE DEMOLITION NOTES 20 AND 22

RELOCATE EXISTING FIRE HYDRANT ASSEMBLY, SEE SITE

**U**9 **DEMOLITION NOTE 25** 

(U10) REMOVE EXISTING DRINKING WATER FOUNTAIN

### SITE DEMOLITION LEGEND

DESCRIPTION	SYMBOL
ITEM TO BE REMOVED	
ITEM TO REMAIN	
CAP UTILITY, SEE SITE DEMOLITION	······································
PLUG UTILITY, SEE SITE DEMOLITION	E
REMOVE EXISTING STONE PAVING	
REMOVE EXISTING CONCRETE WALK	
REMOVE EXISTING HEX PAVERS	
REMOVE EXISTING CRUSHED ROCK SURFACING	$\begin{array}{c} + & + & + & + & + & + & + & + & + & + $
REMOVE EXISTING GRANITE PAVING, SEE SITE DEMOLITION NOTES 20, 21, AND 22	
REMOVE EXISTING BRICK	

REMOVE EXISTING BRICK PAVERS

 $\underline{\land}$ 

OR STRUCTURE

# AECOM

PROJECT SOUTH BATTERY PARK CITY **RESILIENCY DESIGN** SERVICES

CLIENT

HUGH L. CAREY BATTERY PARK CITY AUTHORITY CONSULTANT

### AECOM AECOM USA

SITE WORKS

MILHOUSE

605 3rd Ave, 2nd Floor, New York, NY 10158 212.973.2900 tel www.aecom.com SUB-CONSULTANT

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SITEWORKS 150 West 28th St.,Suite 605

New York, NY 10001 212.255.8350 siteworkscm.com **MILHOUSE** 

Chicago, III 60604 313.987.0061 milhouseinc.com TILLOTSON DESIGN ASSOCIATES 40 Worth St. Rm 703, New York, NY 10013

212.675.7760 tillotsondesign.cc THOMAS PHIFER AND PARTNERS Thomas Phife

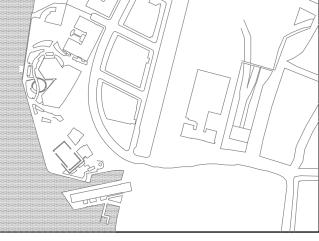
333 South Wabash Ave, Suite 2901,

180 Varick St.,New York, NY 10014 212.337.0334 thomasphifer.com NAIK CONSULTING GROUP, PC

NAIK CONSULTING GROUP, PC 111 West 33rd St., Suite 605 New York, NY 10120 212.575.2701 naikgroup.com

OWEIS 100 East Hanover Ave., Suite 101, Cedar Knolls, NJ 07927 oweisengineering.com 973.539.440





### REGISTRATION

### **ISSUE/REVISION**

2	JUNE 2022	<b>RESPONSES TO QUESTIONS</b>
l/R	DATE	DESCRIPTION
., , , ,	27.112	

Designed By:	B. DUPUY
Drawn By:	J. POPE
Checked By:	S. HALUSCHAK
Approved By:	M. JONES

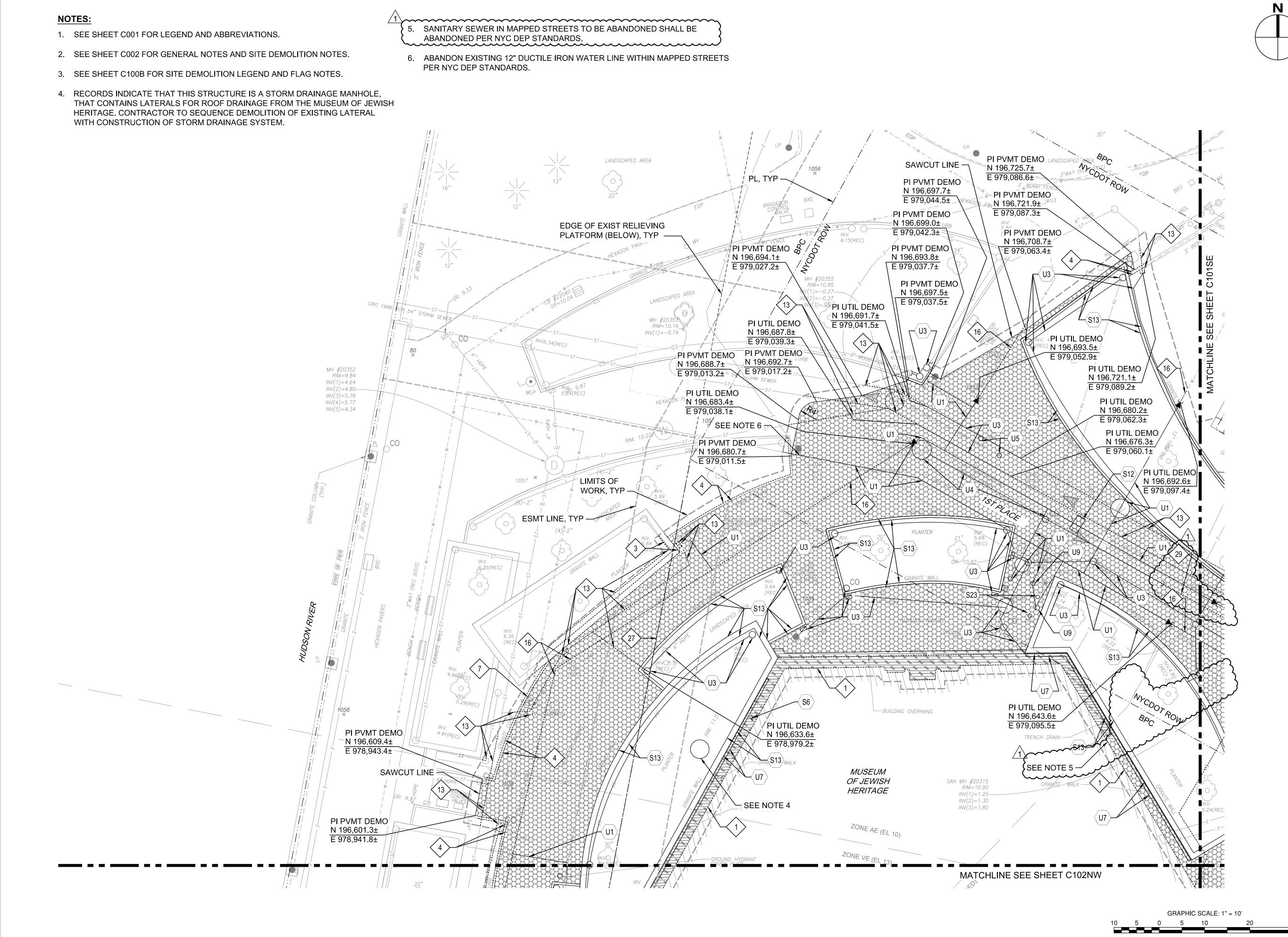
### **PROJECT/TERM CONTRACT NUMBER**

Contract No. 18-2586 SHEET TITLE

SITE DEMOLITION LEGEND AND FLAG NOTES

- 4. RECORDS INDICATE THAT THIS STRUCTURE IS A STORM DRAINAGE MANHOLE, THAT CONTAINS LATERALS FOR ROOF DRAINAGE FROM THE MUSEUM OF JEWISH HERITAGE. CONTRACTOR TO SEQUENCE DEMOLITION OF EXISTING LATERAL WITH CONSTRUCTION OF STORM DRAINAGE SYSTEM.

SANITARY SEWER IN MAPPED STREETS TO BE ABANDONED SHALL BE ABANDONED PER NYC DEP STANDARDS.



IT IS A VIOLATION OF TITLE VIII ARTICLE 145, SECTION 7209.2 OF THE NEW YORK STATE EDUCATION LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER IN ANY WAY, PLANS, SPECIFICATIONS, PLATS OR REPORTS TO WHICH THE SEAL OF A PROFESSIONAL ENGINEER HAS BEEN APPLIED. IF AN ITEM BEARING THE SEAL OF A PROFESSIONAL ENGINEER IS ALTERED. THE ALTERING ENGINEER SHALL AFFIX TO THE ITEM HIS SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY HIS/HER SIGNATURE. THE DATE, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

### AECOM PROJECT

SOUTH BATTERY PARK CITY **RESILIENCY DESIGN** SERVICES CLIENT

HUGH L. CAREY BATTERY PARK CITY AUTHORITY CONSULTANT

### AECOM

SITE WORKS

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AECOM USA 605 3rd Ave, 2nd Floor, New York, NY 10158 212.973.2900 tel www.aecom.com SUB-CONSULTANT

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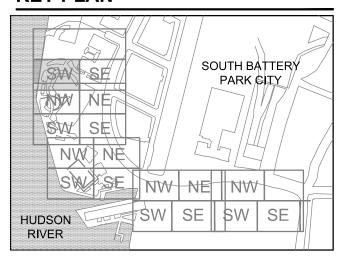
THOMAS PHIFER AND PARTNERS 180 Varick St.,New York, NY 10014

333 South Wabash Ave, Suite 2901,

212 337 0334 thomasphifer.com NAIK CONSULTING GROUP, PC NAIK CONSULTING GROUP, PC 111 West 33rd St., Suite 605 New York, NY 10120

212.575.2701 naikgroup.com OWEIS

100 East Hanover Ave., Suite 101, Cedar Knolls, NJ 07927 oweisengineering.com 973.539.440 **KEY PLAN** 



### REGISTRATION

# **ISSUE/REVISION**

$\overline{\mathbb{A}}$	JUNE 2022	<b>RESPONSES TO QUESTIONS</b>
l/R	DATE	DESCRIPTION

$\overline{\mathbb{A}}$	JUNE 2022	<b>RESPONSES TO QUESTIONS</b>
<u>/</u> I/R	JUNE 2022 DATE	RESPONSES TO QUESTIONS DESCRIPTION

$\wedge$	<b>JUNE 2022</b>	<b>RESPONSES TO QUESTIONS</b>
$\underline{1}$	JUNE 2022	RESPONSES TO QUESTIONS
<u>∕1∖</u> I/R	DATE	DESCRIPTION

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l/R	DATE	DESCRIPTION

$\overline{\wedge}$	JUNE 2022	RESPONSES TO QUESTIONS
l/R	DATE	DESCRIPTION
Ποσ	signed By:	

$\Lambda$	<b>JUNE 2022</b>	<b>RESPONSES TO QUESTIONS</b>
l/R	DATE	DESCRIPTION
Des	signed By:	B. DUPUY
Dra	wn By:	J. POPE

S. HALUSCHAK

## **PROJECT/TERM CONTRACT NUMBER**

Contract No. 18-2586

Approved By: | M. JONES

Checked By:

SHEET TITLE

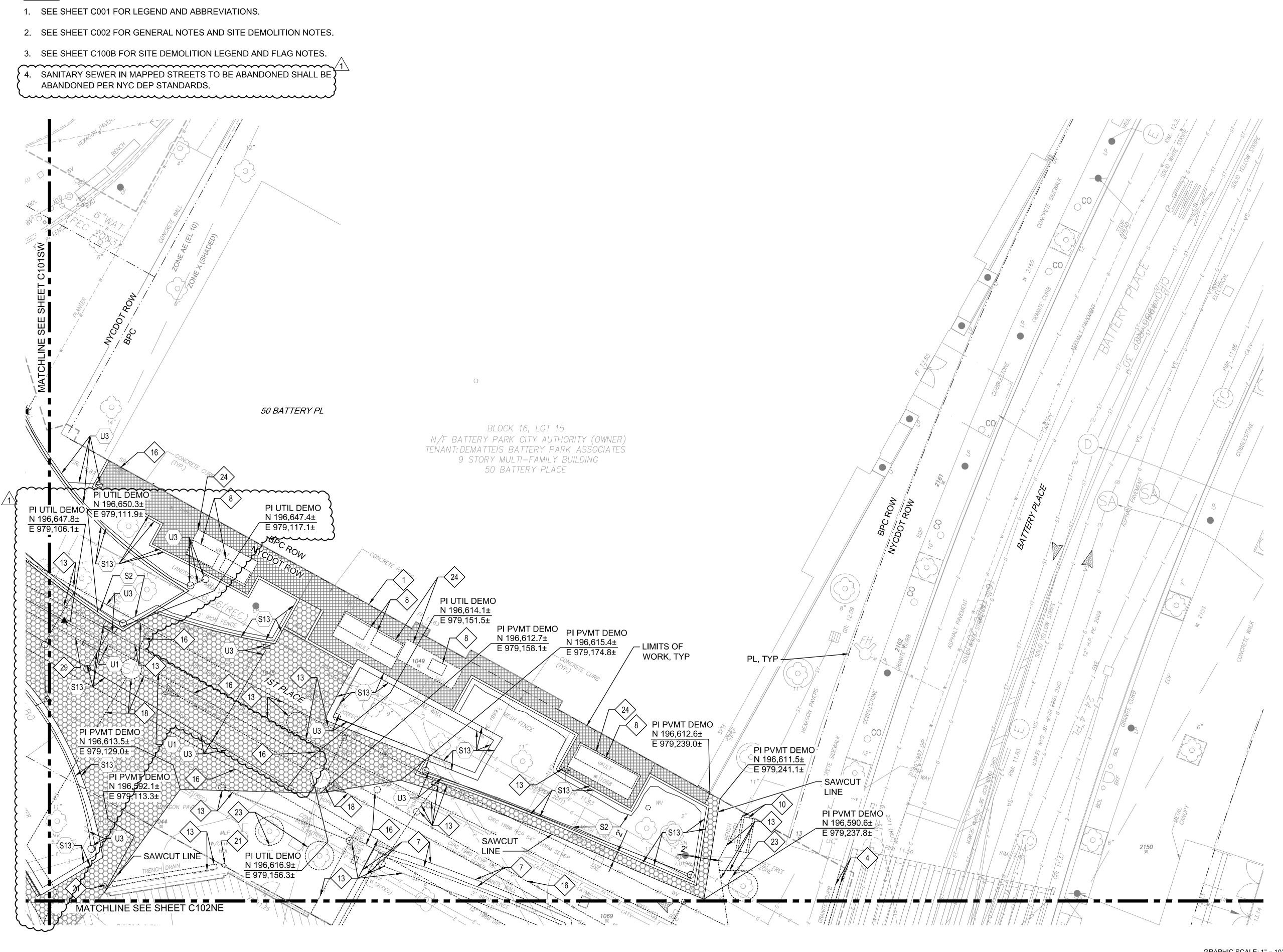
# SITE DEMOLITION PLAN 01

### SHEET NUMBER

C101SW

### NOTES:

- ABANDONED PER NYC DEP STANDARDS.



IT IS A VIOLATION OF TITLE VIII ARTICLE 145, SECTION 7209.2 OF THE NEW YORK STATE EDUCATION LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER IN ANY WAY, PLANS, SPECIFICATIONS, PLATS OR REPORTS TO WHICH THE SEAL OF A PROFESSIONAL ENGINEER HAS BEEN APPLIED. IF AN ITEM BEARING THE SEAL OF A PROFESSIONAL ENGINEER IS ALTERED, THE ALTERING ENGINEER SHALL AFFIX TO THE ITEM HIS SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY HIS/HER SIGNATURE, THE DATE, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

GRAPHIC SCALE: 1" = 10' 10

# AECOM

PROJECT SOUTH BATTERY PARK CITY **RESILIENCY DESIGN** SERVICES

CLIENT

Ν

HUGH L. CAREY BATTERY PARK CITY AUTHORITY

CONSULTANT

### AECOM AECOM USA

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New York, NY 10001 212.255.8350 siteworkscm.com MILHOUSE

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111 West 33rd St., Suite 605 New York, NY 10120 212.575.2701 naikgroup.com OWEIS

100 East Hanover Ave., Suite 101, Cedar Knolls, NJ 07927 oweisengineering.com 973.539.440 **KEY PLAN** 

### SOUTH BATTERY SWASE PARK GITY NE/ SW SE NUXINE SWESE NW NE NW SW SE SW SE HUDSON RIVER

### REGISTRATION

### **ISSUE/REVISION**

$\overline{\mathbb{A}}$	JUNE 2022	<b>RESPONSES TO QUESTIONS</b>
l/R	DATE	DESCRIPTION
Des	igned By:	B. DUPUY

Designed By:	B. DUPUY
Drawn By:	J. POPE
Checked By:	S. HALUSCHAK
Approved By:	M. JONES

### **PROJECT/TERM CONTRACT NUMBER**

Contract No. 18-2586

SHEET TITLE

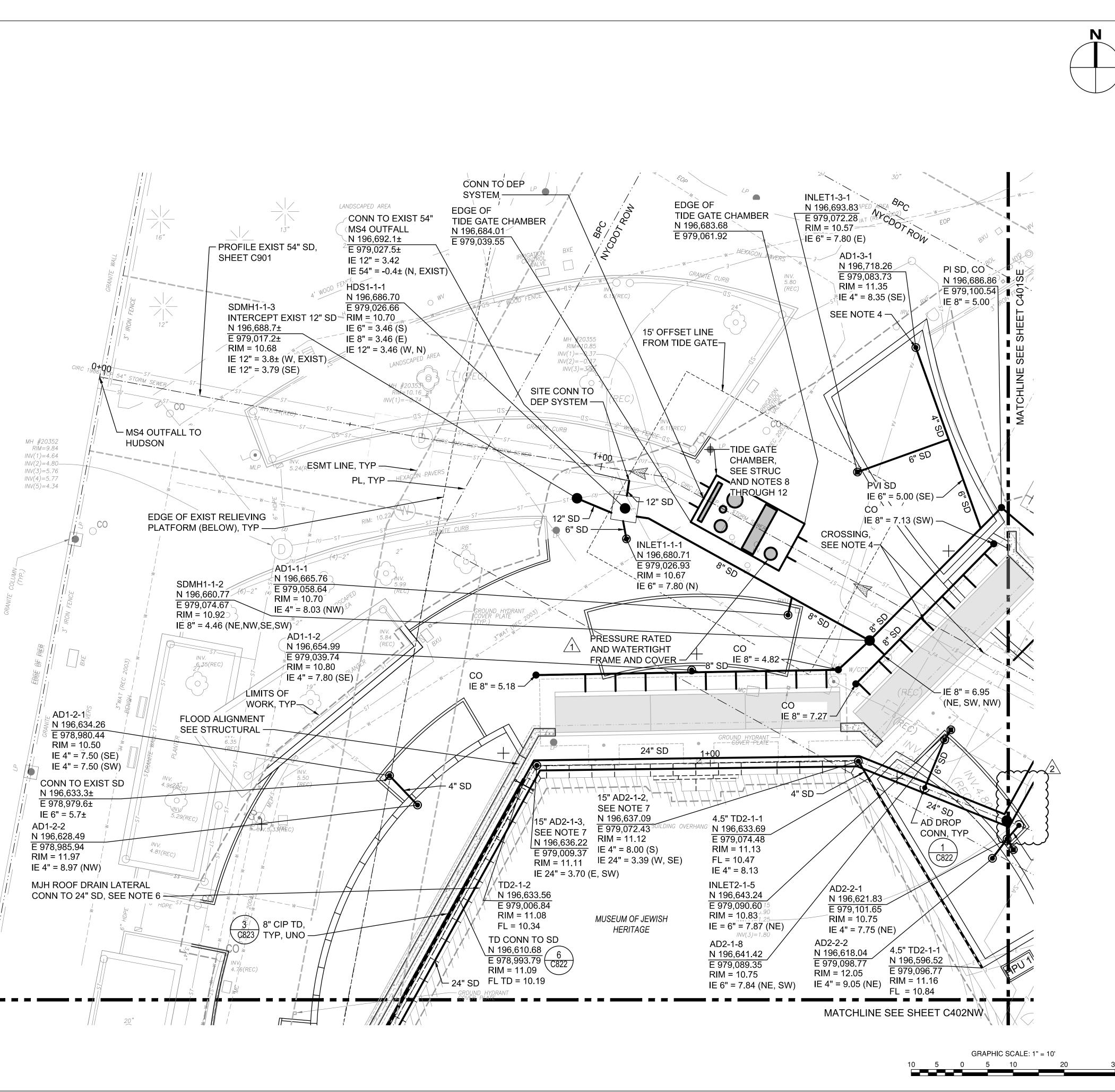
### SITE DEMOLITION PLAN 02

### SHEET NUMBER

C101SE

### NOTES:

- SEE SHEET C001 FOR LEGEND AND ABBREVIATIONS.
- SEE SHEET C002 FOR GENERAL NOTES AND STORM DRAINAGE 2. NOTES.
- INSTALL INLINE BACKFLOW PREVENTION DEVICE ON OUTLET PIPE 3. IN STORM DRAIN MANHOLE.
- SEE STRUCTURAL PLANS FOR DETAILS ON EXISTING 54" MS4 4. OUTFALL CROSSING THE FLOOD ALIGNMENT.
- SEE C501SW FOR DETAILS ON SUBDRAINAGE. 5
- INTERCEPT EXISTING ROOF DRAINAGE LATERAL FROM MUSEUM 6. OF JEWISH HERITAGE. TIE INTO 24" SD VIA TEE. PROVIDE BACKFLOW PREVENTION DEVICE ON ROOF DRAIN LATERAL.
- INSTALL 30" BASIN WITH 15" BRONZE SOLID GRATE
- 8. DURING CONSTRUCTION OF THE TIDE GATE, THE CONTRACTOR(S) SHALL PREVENT STORMWATER AND RIVER WATER FROM ENTERING THE CONSTRUCTION ZONE OF THE TIDE GATE STRUCTURE, MANAGE BYPASS FLOWS, DESIGN, INSTALL AND MAINTAIN TEMPORARY COFFERDAM/WATERIGHT SHEETING AND BRACING SYSTEM(S), AND MAINTAIN GROUNDWATER TO A DEPTH BELOW THE BOTTOM OF EXCAVATION, IN ACCORDANCE WITH NEW YORK CITY DEPARTMENT OF ENVIRONMENTAL PROTECTION STANDARD SEWER AND WATER MAIN SPECIFICATIONS, INCLUDING:
  - A. PARAGRAPHS 10,13 AND 50,71,2(H) FOR MANAGING BYPASS FLOWS.
  - **B. PARAGRAPHS 40.05 FOR TEMPORARY** COFFERDAM/WATERTIGHT SHEETING AND BRACING SYSTEM(S)
  - C. PARAGRAPHS 40.02.15 FOR DISPOSAL OF WATER.
- THE CONTRACTOR(S) SHALL BE RESPONSIBLE FOR THE DESIGN 9 AND CONSTRUCTION OF A SUITABLE TEMPORARY COFFERDAM/WATERTIGHT SHEETING AND BRACING SYSTEM(S), SUBJECT TO THE REVIEW AND APPROVAL BY THE NEW YORK CITY DEPARTMENT OF ENVIRONMENTAL PROTECTION ENGINEER.
- 10. THE CONTRACTOR(S) SHALL SUBMIT THEIR PROPOSED METHOD FOR MAINTAINING BYPASS FLOWS TO THE NEW YORK CITY DEPARTMENT OF ENVIRONMENTAL PROTECTION ENGINEER FOR APPROVAL A MINIMUM OF 30 DAYS PRIOR TO WHEN THEY PLAN TO BEGIN WORK ON THE COFFERDAM/WATERTIGHT SHEETING AND BRACING SYSTEM(S).
- 11. IF THE CONTRACTOR(S) ELECTS TO CONSTRUCT A TEMPORARY DIVERSION SEWER FOR MANAGING BYPASS FLOWS, THEY SHALL BE RESPONSIBLE FOR REPAIRING/REPLACING THE PORTIONS OF THE SEWER AT THE POINTS OF CONNECTION TO THE DIVERSION.
- 12. THE FOLLOWING POTENTIAL SEQUENCE OF CONSTRUCTION RELATED TO THE TIDE GATE IS IDENTIFIED AS AN APPROACH OPTION. THE CONTRACTOR(S) IS SOLELY RESPONSIBLE FOR THE CONSTRUCTION APPROACH AND CONSTRUCTION SEQUENCE RELATED TO TIDE GATE.
  - A. BLOCK AND PREVENT STORMWATER AND RIVER WATER FROM ENTERING THE TIDE GATE CONSTRUCTION ZONE BY INSTALLING AIR BLADDERS OR OTHER EQUIVALENT MEASURES IN THE PIPE AT DOWNSTREAM AND UPSTREAM MAINTENANCE HOLES TO PREVENT WATER FROM ENTERING THE PIPE WITHIN THE ZONE OF CONSTRUCTION.
  - CONSTRUCT TEMPORARY COFFERDAM/WATERTIGHT B. SHEETING AND BRACING SYSTEM(S) AS REQUIRED TO CONSTRUCT THE TIDE GATE STRUCTURE.
  - C. CONSTRUCT A TEMPORARY DIVERSION SEWER AND/OR PUMPS TO BYPASS WATER TO THE EXISTING OUTFALL.
  - D. DEMOLISH AND REMOVE THE EXISTING OUTFALL SEWER WITHIN THE LIMITS OF THE COFFERDAM/WATERTIGHT SHEETING AND BRACING SYSTEM(S) FOR THE PROPOSED TIDE GATE STRUCTURE. NOTE THAT THE EXISTING SEWERS ARE SUPPORTED ON PILES AND ON A CONCRETE CRADLE. THE CONTRACTOR(S) SHALL REMOVE ANY PIPE, STRUCTURE, OR PILES DOWN TO 18 INCHES BELOW THE PROPOSED BOTTOM OF THE NEW SDMH2-1-1.
  - E. INSTALL PILES FOR THE TIDE GATE STRUCTURE (SEE STRUCTURAL).
  - F. CONSTRUCT THE TIDE GATE STRUCTURE AND SEWER PIPE CONNECTIONS (SEE STRUCTURAL) AND INSTALL INTERIOR COMPONENTS.
  - G. REMOVE THE COFFERDAM/WATERTIGHT SHEETING AND BRACING SYSTEM(S) AND BACKFILL WITH SELECT **GRANULAR FILL.**
  - H. REMOVE THE TEMPORARY DIVERSION SEWER (AND REPAIR/REPLACE SEWER AT CONNECTION) AND/OR PUMPS.
  - I. REMOVE THE AIR BLADDERS OR OTHER EQUIVALENT MEASURES.



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IT IS A VIOLATION OF TITLE VIILARTICLE 145. SECTION 7209.2 OF THE NEW YORK STATE EDUCATION LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER. TO ALTER IN ANY WAY, PLANS, SPECIFICATIONS, PLATS OR REPORTS TO WHICH THE SEAL OF A PROFESSIONAL ENGINEER HAS BEEN APPLIED. IF AN ITEM BEARING THE SEAL OF A PROFESSIONAL ENGINEER IS ALTERED. THE ALTERING ENGINEER SHALL AFFIX TO THE ITEM HIS SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY HIS/HER SIGNATURE. THE DATE, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

### AECOM PROJECT

SOUTH BATTERY PARK CITY **RESILIENCY DESIGN** SERVICES CLIENT HUGH L. CAREY **BATTERY PARK CITY AUTHORITY** CONSULTANT

### AECOM AECOM USA

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212 337 0334 thomasphifer.com NAIK CONSULTING GROUP, PC

111 West 33rd St., Suite 605 New York, NY 10120 212 575 2701 naikgroup.com OWEIS

100 East Hanover Ave., Suite 101, Cedar Knolls, NJ 07927 973.539.440 oweisengineering.com **KEY PLAN** 

### SHARESE NE NE SWL SE SWE NW NE NW ∲ŚW| SE || \$W | SE

### REGISTRATION

### **ISSUE/REVISION**

$\overline{2}$	JUNE 2022	<b>RESPONSES TO QUESTIONS</b>
l/R	DATE	DESCRIPTION
Des	sianed By:	B. DUPUY

	/2\	JUNE 2022	RESPONSES TO QUESTIONS
	l/R	DATE	DESCRIPTION
I	Des	signed By:	B. DUPUY
I	Drawn By:		J. POPE

### S. HALUSCHAK Checked By: Approved By: | M. JONES

### **PROJECT/TERM CONTRACT NUMBER**

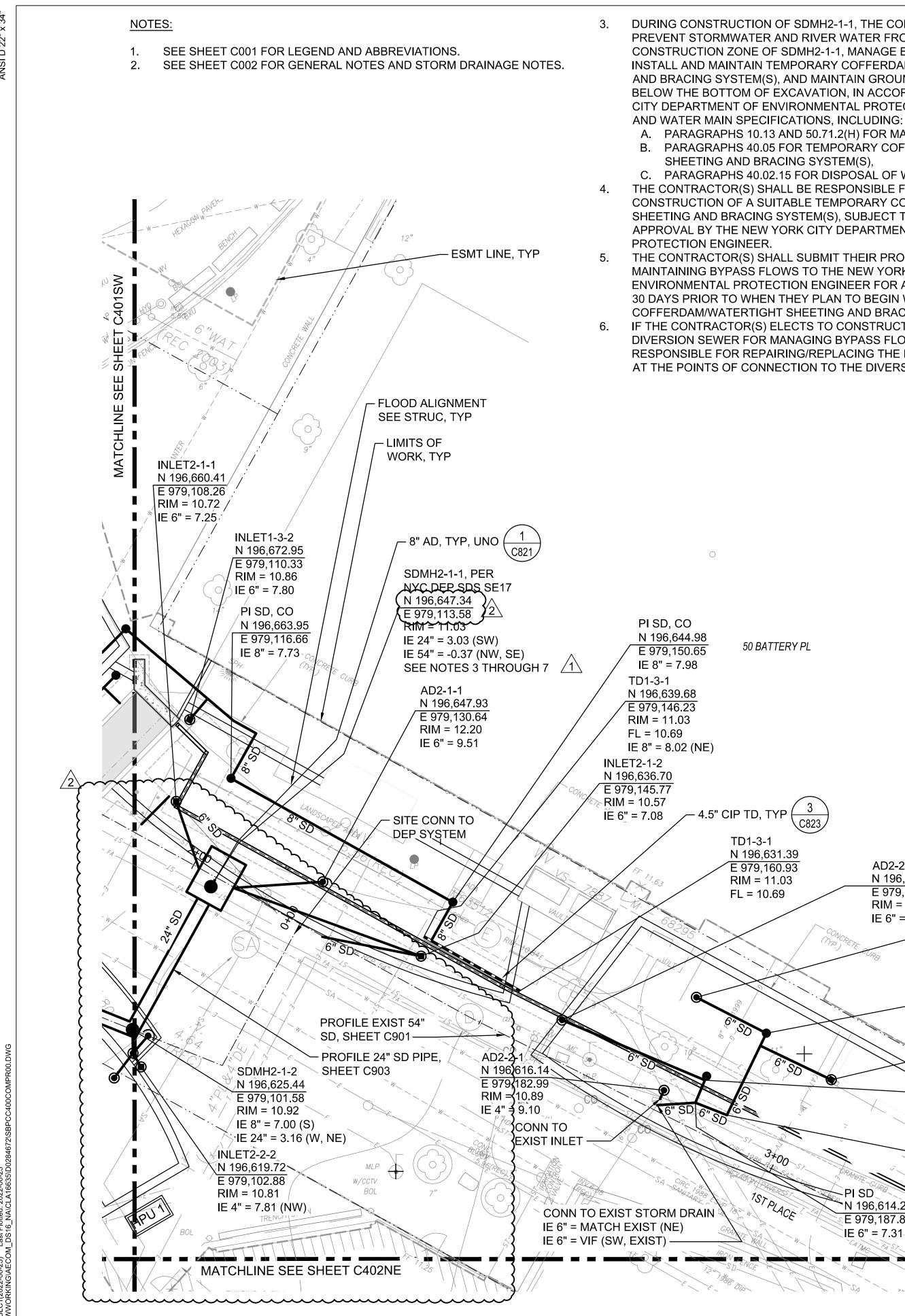
### Contract No. 18-2586

SHEET TITLE

### STORM DRAINAGE PLAN 01

### SHEET NUMBER

C401SW



DURING CONSTRUCTION OF SDMH2-1-1, THE CONTRACTOR(S) SHALL PREVENT STORMWATER AND RIVER WATER FROM ENTERING THE CONSTRUCTION ZONE OF SDMH2-1-1, MANAGE BYPASS FLOWS, DESIGN,

7.

INSTALL AND MAINTAIN TEMPORARY COFFERDAM/WATERIGHT SHEETING AND BRACING SYSTEM(S), AND MAINTAIN GROUNDWATER TO A DEPTH BELOW THE BOTTOM OF EXCAVATION, IN ACCORDANCE WITH NEW YORK CITY DEPARTMENT OF ENVIRONMENTAL PROTECTION STANDARD SEWER

A. PARAGRAPHS 10.13 AND 50.71.2(H) FOR MANAGING BYPASS FLOWS, B. PARAGRAPHS 40.05 FOR TEMPORARY COFFERDAM/WATERTIGHT

C. PARAGRAPHS 40.02.15 FOR DISPOSAL OF WATER.

THE CONTRACTOR(S) SHALL BE RESPONSIBLE FOR THE DESIGN AND CONSTRUCTION OF A SUITABLE TEMPORARY COFFERDAM/WATERTIGHT SHEETING AND BRACING SYSTEM(S), SUBJECT TO THE REVIEW AND APPROVAL BY THE NEW YORK CITY DEPARTMENT OF ENVIRONMENTAL

THE CONTRACTOR(S) SHALL SUBMIT THEIR PROPOSED METHOD FOR MAINTAINING BYPASS FLOWS TO THE NEW YORK CITY DEPARTMENT OF ENVIRONMENTAL PROTECTION ENGINEER FOR APPROVAL A MINIMUM OF 30 DAYS PRIOR TO WHEN THEY PLAN TO BEGIN WORK ON THE COFFERDAM/WATERTIGHT SHEETING AND BRACING SYSTEM(S).

IF THE CONTRACTOR(S) ELECTS TO CONSTRUCT A TEMPORARY

DIVERSION SEWER FOR MANAGING BYPASS FLOWS, THEY SHALL BE RESPONSIBLE FOR REPAIRING/REPLACING THE PORTIONS OF THE SEWER

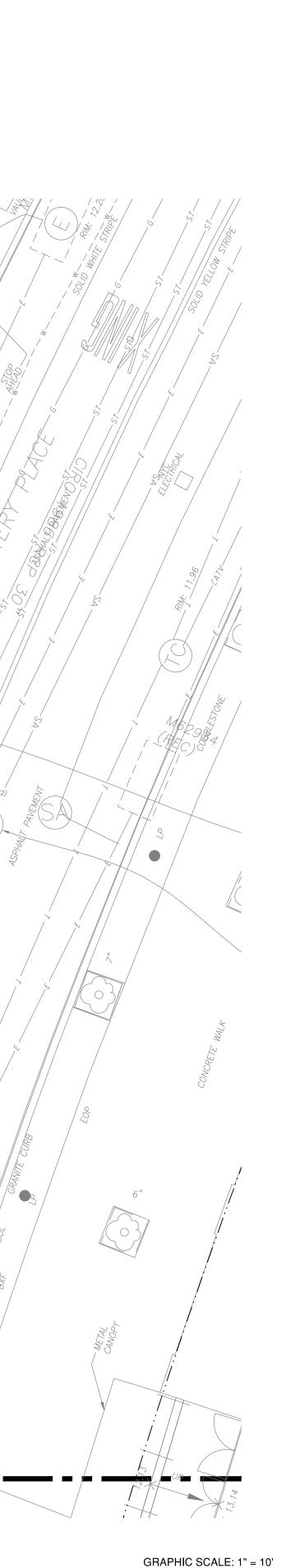
AT THE POINTS OF CONNECTION TO THE DIVERSION

THE FOLLOWING POTENTIAL SEQUENCE OF CONSTRUCTION RELATED TO SDMH2-1-1 IS IDENTIFIED AS AN APPROACH OPTION. THE CONTRACTOR(S) IS SOLELY RESPONSIBLE FOR THE CONSTRUCTION APPROACH AND CONSTRUCTION SEQUENCE RELATED TO SDMH2-1-1.

/1\

- A. BLOCK AND PREVENT STORMWATER AND RIVER WATER FROM ENTERING THE SDMH2-1-1 CONSTRUCTION ZONE BY INSTALLING AIR BLADDERS OR OTHER EQUIVALENT MEASURES IN THE PIPE AT DOWNSTREAM AND UPSTREAM MAINTENANCE HOLES TO PREVENT WATER FROM ENTERING THE PIPE WITHIN THE ZONE OF CONSTRUCTION.
- B. CONSTRUCT TEMPORARY COFFERDAM/WATERTIGHT SHEETING AND BRACING SYSTEM(S) AS REQUIRED TO CONSTRUCT SDMH2-1-1.
- C. CONSTRUCT A TEMPORARY DIVERSION SEWER AND/OR PUMPS TO BYPASS WATER TO THE EXISTING OUTFALL.
- D. DEMOLISH AND REMOVE THE EXISTING OUTFALL SEWER WITHIN THE LIMITS OF THE COFFERDAM/WATERTIGHT SHEETING AND BRACING SYSTEM(S) FOR THE PROPOSED SDMH2-1-1 STRUCTURE. NOTE THAT THE EXISTING SEWERS ARE SUPPORTED ON PILES AND ON A CONCRETE CRADLE. THE CONTRACTOR(S) SHALL REMOVE ANY PIPE, STRUCTURE, OR PILES DOWN TO 18 INCHES BELOW THE PROPOSED BOTTOM OF THE NEW SDMH2-1-1.
- E. INSTALL PILES FOR THE SDMH2-1-1 STRUCTURE (SEE REFERENCED NEW YORK CITY DEPARTMENT OF ENVIRONMENTAL PROTECTION STANDARD DETAILS AND SPECIFICATIONS)
- CONSTRUCT THE SDMH2-1-1 STRUCTURE AND SEWER PIPE CONNECTIONS (SEE REFERENCED NEW YORK CITY DEPARTMENT OF ENVIRONMENTAL PROTECTION STANDARD DETAILS AND SPECIFICATIONS).
- REMOVE THE COFFERDAM/WATERTIGHT SHEETING AND BRACING G. SYSTEM(S) AND BACKFILL WITH SELECT GRANULAR FILL
- H. REMOVE THE TEMPORARY DIVERSION SEWER (AND REPAIR/REPLACE SEWER AT CONNECTION) AND/OR PUMPS.
- REMOVE THE AIR BLADDERS OR OTHER EQUIVALENT MEASURES

PL. TYP CQ50 BATTERY PL 12 A C823/ AD2-2-2 N 196,626.92 E 979,167.37 AD2-2-3 RIM = 12.87 N 196.630.40 IE 6" = 9.87 (E) E 979,187.95 RIM = 11.26 IE 6" = 8.47 (E) PI SD, CO N 196,624.91 E 979,198.67 INLET2-2-1 //N 196,617.76 IE 6" = 8.29 E 979,208.63 RIM = 11.44 E 6" = 8.44 (W) PI SD, CO 1N 196,617.70 E 979,189.26 ಧಿIE 6" = 8.78/ಸ PI SD N 196,612.35 E 979,192.64 IE 6" = 7.39<sup>2</sup> PI SD IST PLACE N 196,614.25 E 979,187.8 IE 6" = 7.31



# AECOM

PROJECT SOUTH BATTERY PARK CITY **RESILIENCY DESIGN** SERVICES

CLIENT

Ν

HUGH L. CAREY **BATTERY PARK CITY AUTHORITY** CONSULTANT

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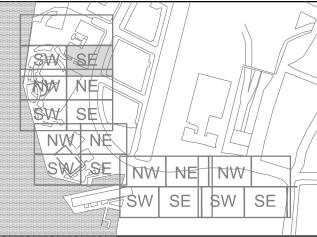
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### **KEY PLAN**



### REGISTRATION

### **ISSUE/REVISION**

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$\overline{2}$	JUNE 2022	RESPONSES TO QUESTIONS
l/R	DATE	DESCRIPTION
Deg	signed By:	

Designed By:	B. DUPUY
Drawn By:	J. POPE
Checked By:	S. HALUSCHAK
Approved By:	M. JONES

### **PROJECT/TERM CONTRACT NUMBER**

Contract No. 18-2586 SHEET TITLE

### STORM DRAINAGE PLAN 02

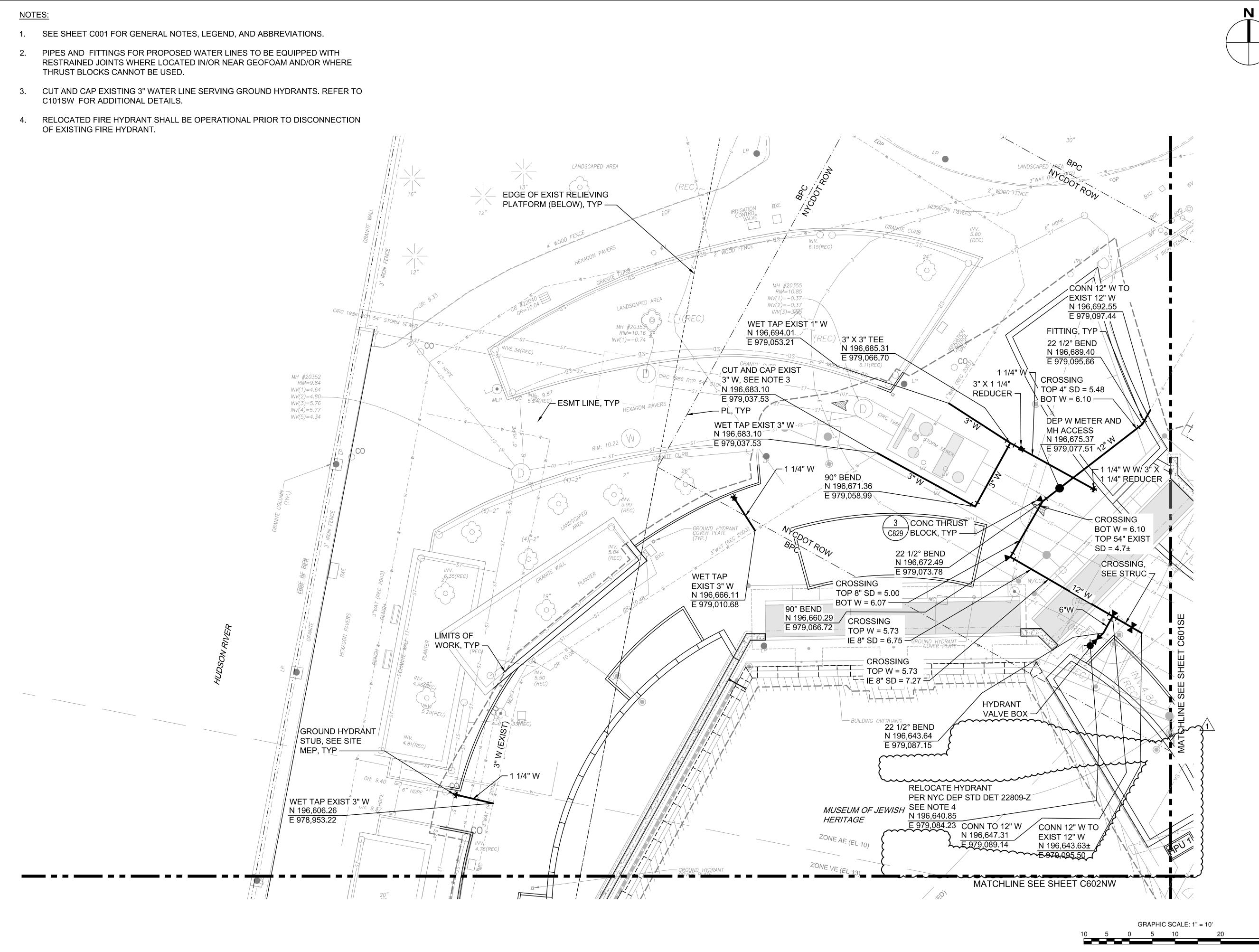
### SHEET NUMBER

C401SE

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10

- THRUST BLOCKS CANNOT BE USED.
- C101SW FOR ADDITIONAL DETAILS.
- RELOCATED FIRE HYDRANT SHALL BE OPERATIONAL PRIOR TO DISCONNECTION OF EXISTING FIRE HYDRANT.



# AECOM

PROJECT SOUTH BATTERY PARK CITY **RESILIENCY DESIGN** SERVICES CLIENT

HUGH L. CAREY BATTERY PARK CITY AUTHORITY CONSULTANT

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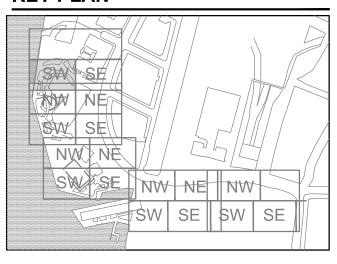
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### **ISSUE/REVISION**

$\overline{\mathbb{A}}$	JUNE 2022	<b>RESPONSES TO QUESTIONS</b>
l/R	DATE	DESCRIPTION
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Dad	signed By:	

Designed By:	B. DUPUY
Drawn By:	J. POPE
Checked By:	S. HALUSCHAK
Approved By:	M. JONES

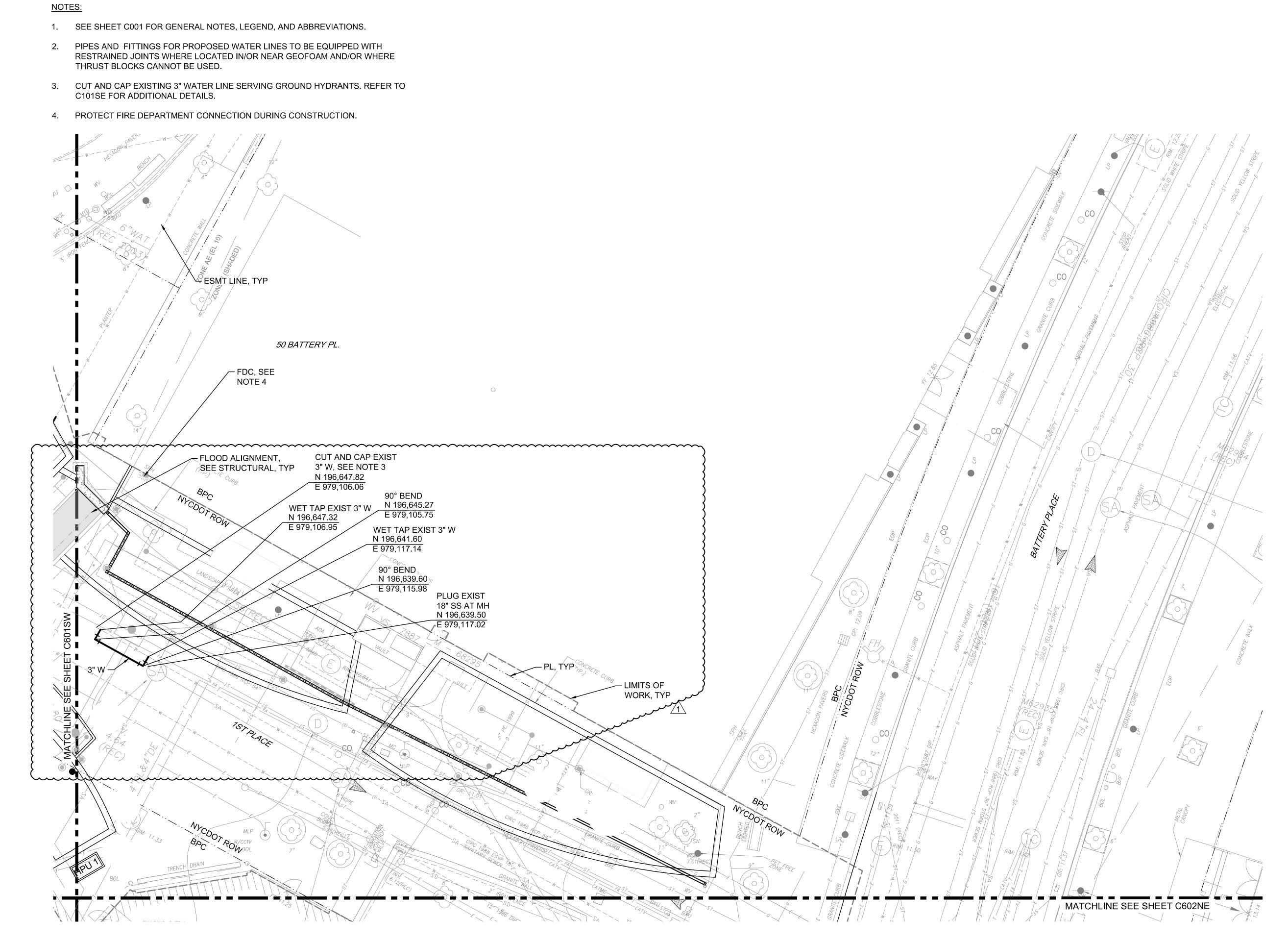
### **PROJECT/TERM CONTRACT NUMBER**

Contract No. 18-2586 SHEET TITLE

WATER AND SEWER PLAN 01

### SHEET NUMBER

C601SW



GRAPHIC SCALE: 1" = 10' 10

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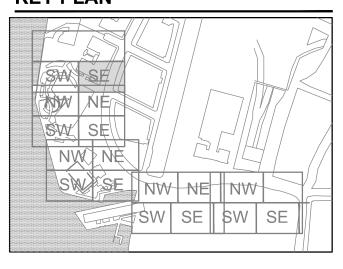
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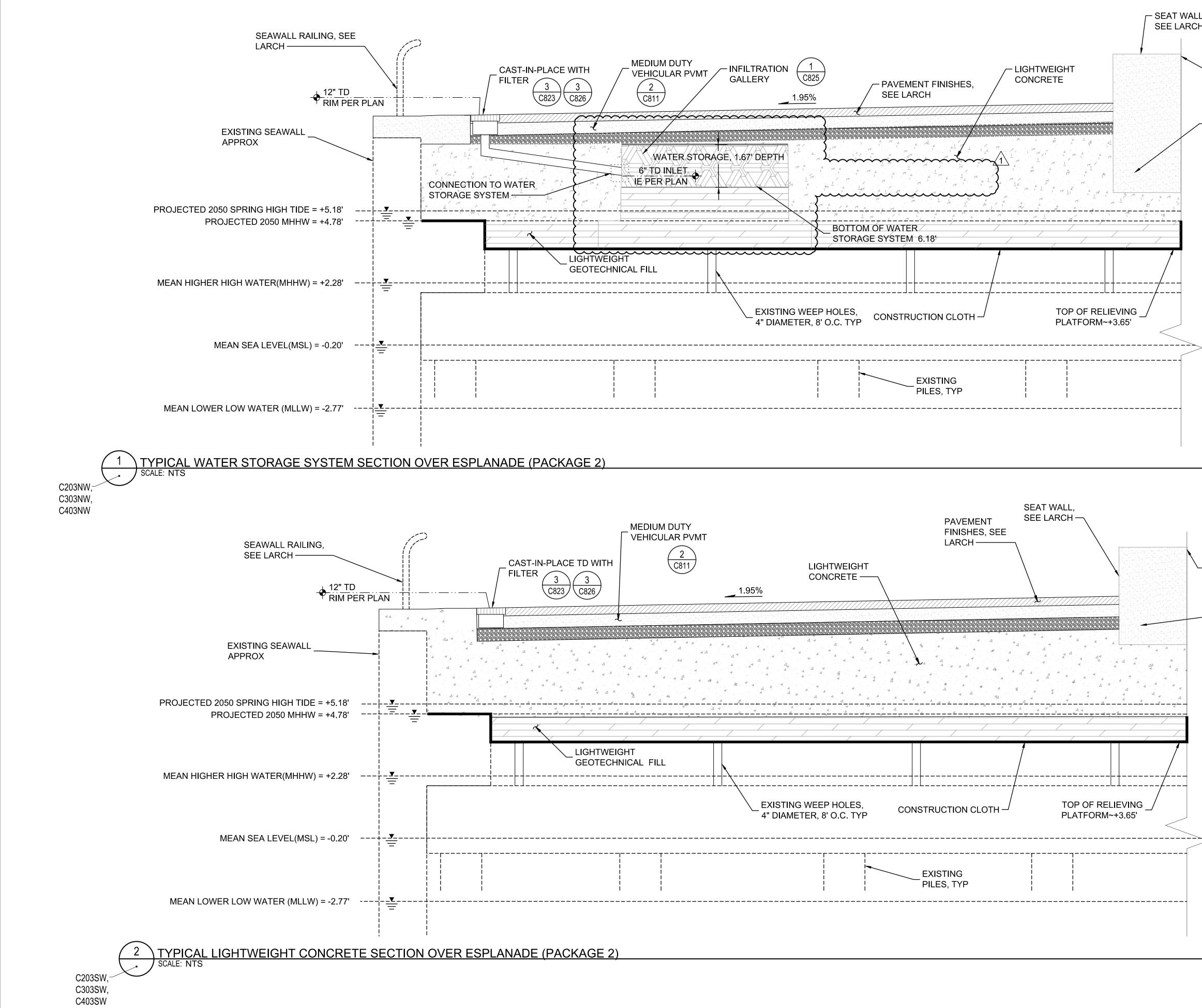
Contract No. 18-2586 SHEET TITLE

WATER AND SEWER PLAN 02

### SHEET NUMBER

C601SE





F TITLE VIII ARTICLE 145, SECTION 7209.2 OF THE NEW YORK STATE EDUCATION LA	N FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF	F A LICENSED PROFESSIONAL ENGINEER, TO ALTER IN ANY V	VAY, PLANS, SPECIFICATIONS, PLATS OR REPORTS TO WH
N APPLIED. IF AN ITEM BEARING THE SEAL OF A PROFESSIONAL ENGINEER IS ALTER	ED, THE ALTERING ENGINEER SHALL AFFIX TO THE ITEM HIS SEA	L AND THE NOTATION "ALTERED BY" FOLLOWED BY HIS/HE	R SIGNATURE, THE DATE, AND A SPECIFIC DESCRIPTION (

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- LANDSCAPE SECTION BUILDUP, SEE LARCH
– SEAT WALL FOUNDATION, SEE STRUC
>
– LANDSCAPE SECTION BUILDUP, SEE LARCH
SEAT WALL FOUNDATION, SEE STRUC
SECTION NOTES:
<ol> <li>SECTIONS ARE DIAGRAMMATIC IN NATURE AND ARE INTENDED TO SHOW GENERAL SYSTEM FUNCTIONS.</li> </ol>
<ol> <li>REFER TO GRADING PLANS, C300 SERIES, FOR DETAILS ON SITE GRADING.</li> <li>RELIEVING PLATFORM EXTENTS AND</li> </ol>
COMPONENTS SHOWN HEREON ARE APPROXIMATE.

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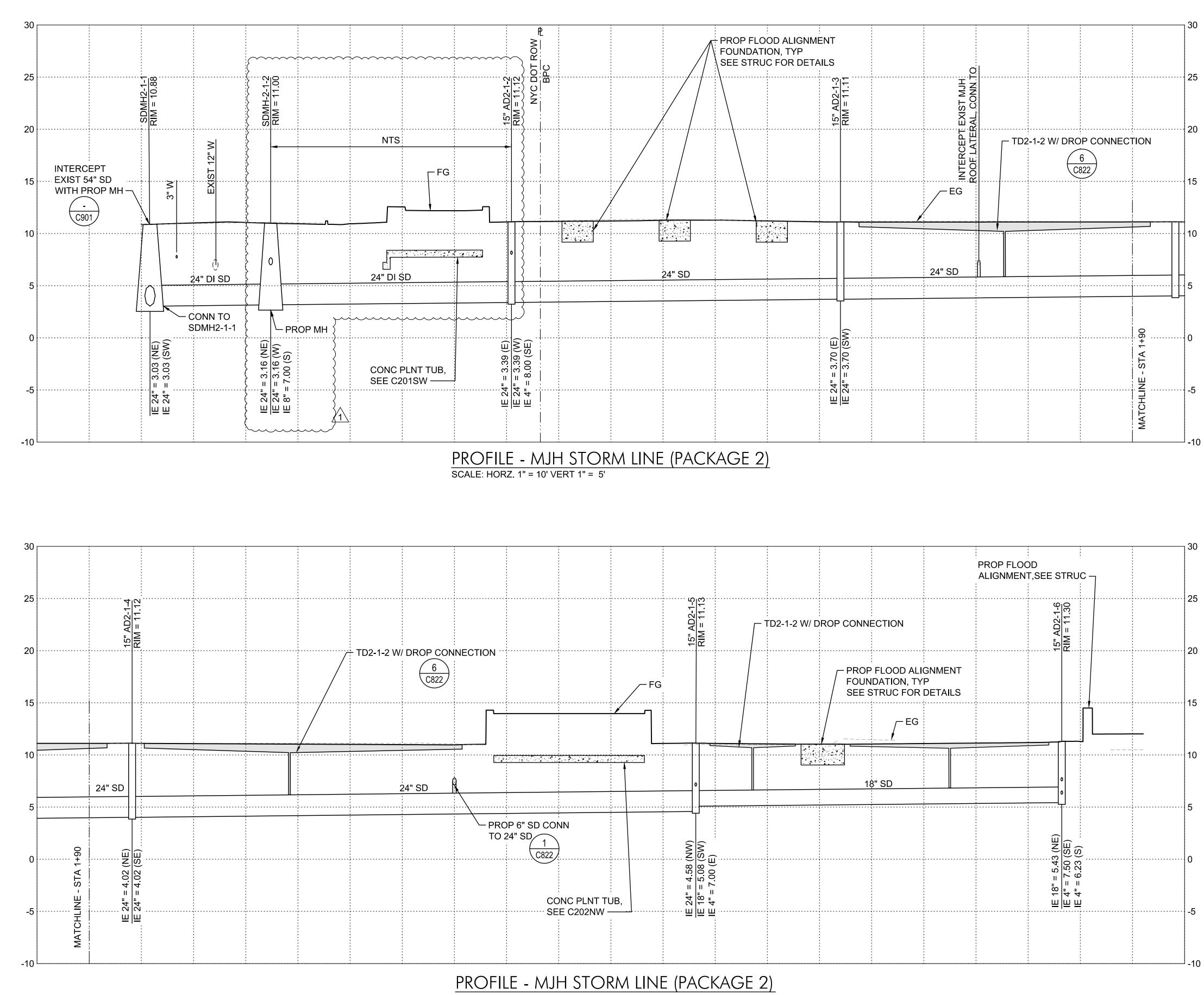
Designed By:	B. DUPUY
Drawn By:	J. POPE
Checked By:	S. HALUSCHAK
Approved By:	M. JONES

### PROJECT/TERM CONTRACT NUMBER

Contract No. 18-2586 SHEET TITLE

### SECTIONS AND DETAILS





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SCALE: HORZ. 1" = 10' VERT 1" = 5'

IT IS A VIOLATION OF TITLE VIII ARTICLE 145, SECTION 7209.2 OF THE NEW YORK STATE EDUCATION LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER IN ANY WAY, PLANS, SPECIFICATIONS, PLATS OR REPORTS TO WHICH THE SEAL OF A PROFESSIONAL ENGINEER HAS BEEN APPLIED. IF AN ITEM BEARING THE SEAL OF A PROFESSIONAL ENGINEER IS ALTERED, THE ALTERING ENGINEER SHALL AFFIX TO THE ITEM HIS SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY HIS/HER SIGNATURE, THE DATE, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

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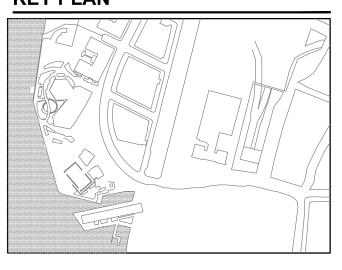
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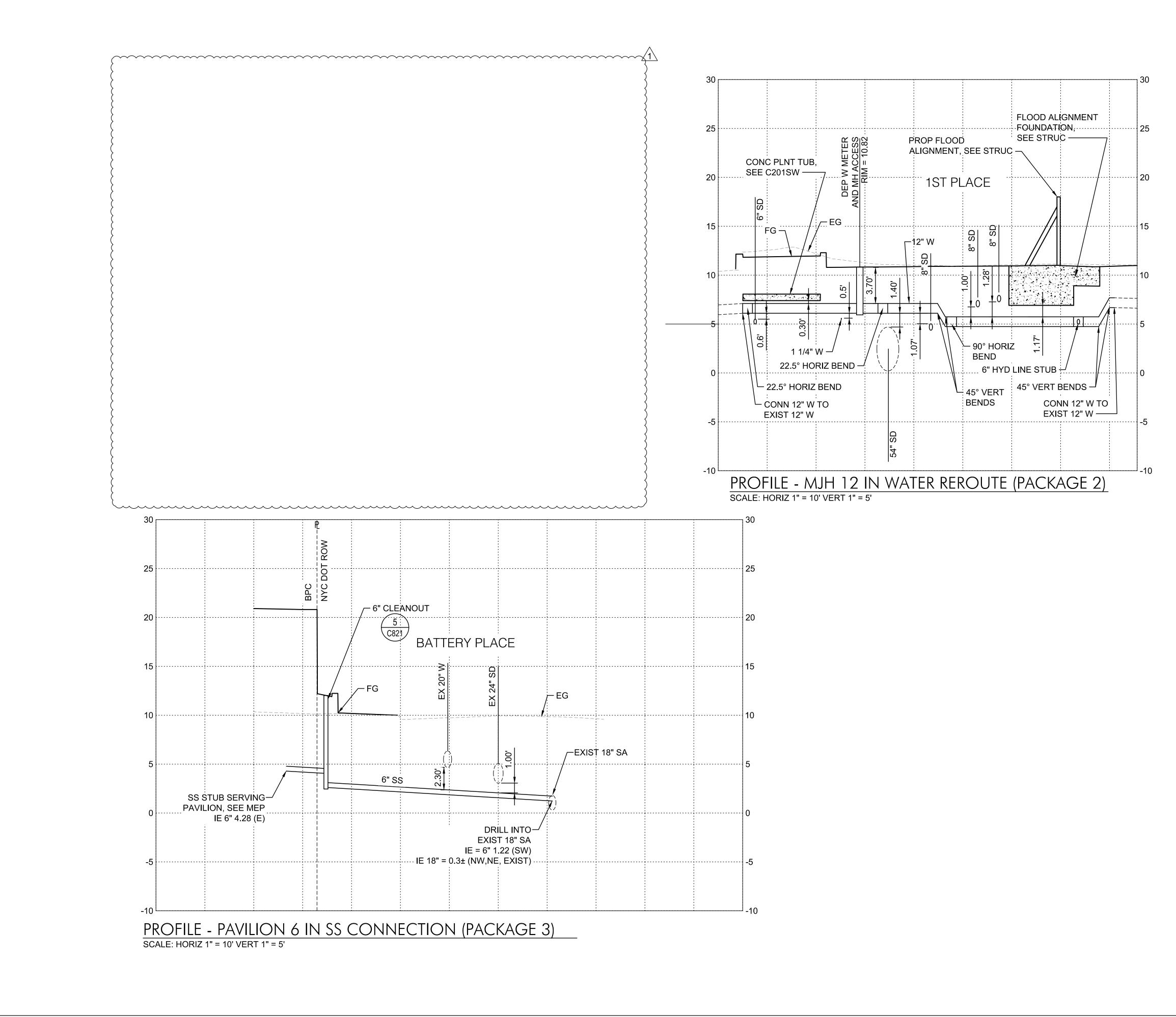
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### PROJECT/TERM CONTRACT NUMBER

Contract No. 18-2586 SHEET TITLE

> STORM DRAINAGE UTILITY PROFILE





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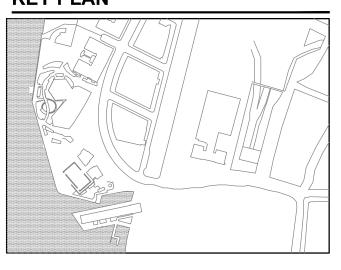
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Approved By:	M. JONES

### PROJECT/TERM CONTRACT NUMBER

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> SEWER UTILITY PROFILE

### <u>ATTACHMENT #4</u> REVISED SPECIFICATION #321123 – AGGREGATE BASE COURSES

(ATTACHED)

### SECTION 321123 – AGGREGATE BASE COURSES

### PART 1 - GENERAL

- 1.01 SUMMARY
  - A. Section Includes: Requirements for materials, placement and testing of base course under all roads, drives, pavements, and walks.
- 1.02 RELATED SECTIONS
  - A. Section 013300, "Submittal Procedures"
  - B. Section 017419, "Construction and Demolition Waste Management and Disposal"
  - C. Section 018113, "Sustainable Design Requirements"
- 1.03 REFERENCES
  - A. The latest version, unless noted otherwise, of the publications listed below form a part of this specification to the extent referenced. The publications are referred to in the text by the basic designation only.
  - B. American Society for Testing and Materials (ASTM):
    - 1. ASTM D 1556: Density and Unit Weight of Soil in Place by the Sand-Cone Method
    - ASTM D 1557: Laboratory Compaction Characteristics of Soil Using Modified Effort (56,000 ft-lbf/ft)
    - 3. ASTM D 2922: Density of Soil and Soil-Aggregate in Place by Nuclear Methods (Shallow Depth)
    - 4. ASTM D 3017: (Water Content of Soil and Rock in Place by Nuclear Methods (Shallow Depth)
  - C. New York State Department of Transportation (NYSDOT):
    - 1. NYSDOT: (2021) Standard Specifications
  - D. New York City Department of Transportation (NYCDOT):
    - 1. NYCDOT: (2009) Standard Highway Specifications

### 1.04 SUBMITTALS

- A. Submit the following in accordance with Section 013300, "Submittal Procedures."
  - 1. Factory Test Reports: Submit test reports for gradation of base course material taken at the source.
  - 2. Field Test Reports: Submit test results for smoothness, density and thickness of in-place base course.
  - 3. Sustainability Submittals: For permanently installed and/or placed products and materials related to the work of this Section, submit product and material

documentation to comply with and contribute to the Project's sustainability requirements, as outlined in the Submittals article of Section 018113 – Sustainable Design Requirements.

- 4. Environmental Product Declarations: To quantify the embodied carbon of the building's materials, ILFI ZC requires that Environmental Product Declarations (EPDs) with Life Cycle Analyses (LCAs) be provided. Include product-specific non-expired EPDs for applicable products. When product-specific EPDs are not available, provide industry-wide EPDs or product LCAs.
- 5. Product Data Sheets: Provide product data sheets that describe the material make up of products (e.g., material ingredient lists, CAS RN#s, description of product's material sourcing).

### 1.05 DELIVERY AND STORAGE

A. Inspect materials delivered to site for damage and store as to prevent segregation and contamination.

### 1.06 WEATHER LIMITATIONS

- A. Do not construct base course when atmospheric temperature is below 35 degrees F or when rainfall or other weather conditions detrimentally affect the quality of the finished course.
- 1.07 CONSTRUCTION EQUIPMENT
  - A. Maintain equipment in satisfactory and safe operating condition. Subject to approval, special equipment dictated by local conditions may be used. Calibrated equipment, such as scales, batching equipment, spreaders, and similar items, shall have been recalibrated by an approved calibration laboratory within 12 months of commencing work.

### 1.08 SUSTAINABLE DESIGN REQUIREMENTS

A. The Owner requires the Contractor to implement practices and procedures to meet the Project's environmental performance goals, which include achieving ILFI Zero Carbon and WEDG Certification. Refer to Section 018113, "Sustainable Design Requirements," for the Project's targets and specific requirements. The Contractor shall ensure that the requirements related to the Project's sustainability design goals are implemented to the fullest extent. Substitutions, or other changes to the work proposed by the Contractor or their Subcontractors, shall not be allowed if such changes compromise the Project's sustainability goals and ILFI Zero Carbon or WEDG certification.

### PART 2 - PRODUCTS

### 2.01 GENERAL REQUIREMENTS

A. For permanently installed products and materials related to the work of this Section, provide products and materials that meet the Project's sustainability performance criteria

as outlined in PART 2–PRODUCTS of Section 018113 – Sustainable Design Requirements.

- B. Provide products and materials with product-specific or industry-wide Environmental Product Declarations (or alternative environmental declaration accepted by LEED), as outlined in Section 018113, "Sustainable Design Requirements."
- C. Provide products and materials with manufacturer's product-specific Health Product Declaration (HPD), Declare label, or Cradle to Cradle certificate (or alternative health-related declaration accepted by LEED), as outlined in Section 018113, "Sustainable Design Requirements."

### 2.02 MATERIALS

- Compacted Aggregate Base: Provide imported materials conforming to Base Course in accordance with NYSDOT, Section 667, "Local Road Gravel Surface, Base, and Subbase Courses."
- B. Asphalt Binder Base: Provide imported materials conforming to Binder Mixture in accordance with NYCDOT, Section 3.01, "Asphalt Paving Mixtures (BINDER, ASPHALTIC CONCRETE)."
- C. Bituminous Setting Bed: Provide imported materials conforming to NYCDOT, Section 3.02, "Bed, Bitumen-sand."

### PART 3 - EXECUTION

### 3.01 GENERAL REQUIREMENTS

A. Waste Management: Construction waste shall be removed and managed in accordance with Section 017419, "Construction and Demolition Waste Management and Disposal."

### 3.02 BASE COURSE

- A. Construct the graded aggregate base course on a previously constructed subbase course, as indicated. Provide line and grade stakes for control. Place grade stakes in lanes parallel to the centerline of areas to be paved and space for string lining or other control methods. The base course shall consist of aggregate processed, deposited, spread, and compacted on a prepared surface. The Contractor shall be responsible for protection of completed areas against detrimental effects. Recondition, reshape, and recompact areas damaged by freezing, rainfall, or other weather conditions.
  - 1. Construct Compacted Aggregate Base course in accordance with NYSDOT, Section 667, "Local Road Gravel Surface, Base, and Subbase Courses."
  - 2. Construct Asphalt Binder Base course conforming to Class 3 Plant Mix Binder in accordance with NYCDOT, Section 4.01 "Asphalt Macadam Pavement."
  - 3. Install Bituminous Setting Bed in accordance with the asphalt paver manufacturer's recommendations.

### 3.03 PLACING

A. Place on prepared subbase in layers of uniform thickness with a spreader. When a compacted course 6 inches in thickness is required, place material in a single layer. When a compacted course in excess of 6 inches is required, place material in layers of equal thickness. Do not exceed 6 inches or have less than 3 inches in thickness for any compacted layer. Place layers so that when compacted, they will be true to grades or levels required with the least possible surface disturbance. Where the base course is constructed in more than one layer, clean previously constructed layers of loose and foreign matter. Maintain material water content during the placing period to obtain the compaction specified. Make adjustments in placing procedures or equipment to obtain true grades, to minimize segregation and degradation, to reduce or increase water content, and to insure a satisfactory base course.

### 3.04 COMPACTING AND FINISHING

A. Immediately following the placing, spread the finished mixture uniformly in a layer and bring to optimum moisture content. The loose thickness and the surface of the layer shall be such that the specified density and the required thickness shall be obtained after compaction. Compact the layer with steel-faced, vibrating or pneumatic-tired rollers, or other suitable compacting equipment or combinations thereof. Continue compacting until the layer is compacted through the full depth to a field density of at a minimum of 95 percent of the ASTM D 1557 maximum density when tested in accordance with ASTM D 1556 or ASTM D 2922 and ASTM D 3017. In areas not accessible to rollers or compactors, compact the mixture with mechanical hand tampers. If the mixture is excessively moistened by rain, aerate by blade graders, or other suitable equipment. Aerate until the moisture content of the layer by a combination of rolling and blading. Final surface shall be smooth and free from waves, irregularities, and ruts or soft yielding spots.

### 3.05 PROOF ROLLING

A. In addition to compacting the base course to the required density, proof roll the top surface of the completed base course by making eight coverages with a heavy rubber-tired roller having four tires with each tire loaded to 30,000 pounds or more and inflated to at least 150 psi. Make four coverages over all areas to be paved. A coverage is defined as one application of one tire print over each point in the surface of the designated area. When under the action of the proof rolling, the base course yields, pumps, or otherwise fails, remove, replace with suitable materials, and recompact materials in the base course or in the underlying layers indicated to be unsatisfactory. The speed of the roller shall not exceed 5 miles per hour. Obtain approval upon completion of the proof rolling of the base course.

### 3.06 FINISHING AT EDGES OF BASE COURSE

A. Place earth or other approved materials along the edges of the base course in such quantity that it will compact to the thickness of the course being constructed. When the

course is being constructed in two or more layers, place material to the thickness of each layer. In each operation, allow at least a one-foot width of the shoulder to be rolled and compacted simultaneously with the rolling and compacting of each layer.

### 3.07 FIELD QUALITY CONTROL

A. Approve materials and material sources in advance of the use of such materials in the work. Replace base where samples are removed.

### B. Testing:

- 1. Smoothness Tests: Test with a 10 foot straightedge, applied parallel with and at right angles to the center line of the paved area. Correct deviations in the surface in excess of 3/8 inch by loosening, adding or removing material, reshaping, watering, and compacting. The smoothness requirements specified herein apply only to the top layer when base course is constructed in more than one layer.
- 2. Field Density Tests: ASTM D 1556 or ASTM D 2922 and ASTM D 3017. Take one test for each 500 square yards of each layer of base course.
- 3. Laboratory Density Tests: In accordance with ASTM D 1557.
- 4. Thickness Tests: Measure thickness of base course at intervals such that there will be a depth measurement for at least each 500 square yards of complete base course. Make depth measurements by test holes, at least 3 inches in diameter, through the base course. Where base course deficiency is more than 1/2 inch, correct by scarifying, adding mixture of proper gradation, reblading, and recompacting. Where the measured thickness is more than 1/2 inch thicker than indicated, consider it as the indicated thickness plus 1/2 inch for determining the average. The average thickness is the average of the depth measurements and shall not underrun the thickness indicated.

### 3.08 MAINTENANCE

A. After construction is completed, maintain the base course throughout, except where portion of the succeeding course is under construction thereon. Maintenance includes drainage, rolling, shaping, and watering, as necessary, to maintain the course in proper condition. Correct deficiencies in thickness, composition, construction, smoothness, and density, which develop during the maintenance, to conform to the requirements specified herein. Maintain sufficient moisture by light sprinkling with water at the surface to prevent a dusty condition.

### END OF SECTION 321123