

**Project: Phase 7 Pile Remediation  
Assessment, Design &  
Engineering Services**

**Date: November 22, 2019**

**RE: Addendum #1**

**# of Pages: 26**

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The following responses (the “Responses”) are provided to questions received by Battery Park City Authority (“BPCA”) by the close of business on November 18, 2019, in connection with its Request for Proposals (the “RFP”) for the Phase 7 Pile Remediation Assessment, Design, and Engineering Services project (the “Project”). The Responses are provided in bold, italicized print immediately following the questions.

1. Given the Thanksgiving holiday during next week, would you consider extending the proposal due date?

***The due date for Proposals is hereby extended from December 3, 2019 at 5:00 p.m. to December 4, 2019 at 5:00 pm, and pre-award interviews, if any, will be scheduled for December 10, 2019. All Proposers invited for an interview must be available and prepared to attend on that date. BPCA will provide advance notice of at least twenty-four (24) hours to invited Proposers.***

2. Please provide Sheets 1-8 prepared by McLaren Engineering Group dated March 30, 2018 as referenced in the DEC permit item 2 “Conformance with Plans.”

***Attached hereto as Addendum 1, Exhibit A are Sheets 1-8 prepared by McLaren Engineering Group dated March 30, 2018.***

3. Is it acceptable for a firm to submit as both a prime and sub?

***Yes, a Proposer may submit a Proposal as a prime consultant while also participating in one or more separately submitted Proposals as a sub-consultant.***

4. With regard to Exhibit A Section II.2, please confirm the following:

- a. A minimum of four (4) cores per area or 12 cores total are requested for petrographic analysis.

***Exhibit A, Section 2 requires that the selected Proposer select at least four (4) locations within each of the three (3) Project Areas, for a total of at least twelve (12) locations that will be subject to direct investigation and testing. Proposers should specify their recommended means of investigation and testing to accomplish the required results and conclusions and may recommend the investigation and testing of additional locations, over and above the required minimum of four (4) per Project Area, if deemed necessary or prudent by the Proposer.***

- b. Condition Assessments and Load Bearing Analyses are requested at all three (3) project areas, not just Wagner Park.

***That is correct.***

5. Please provide full size plans from Appendix G – Phase 6 Drawings. The sheets were cropped within the RFP.

***Attached hereto as Exhibit G is an uncropped version of the Phase 6 Drawings (sheets 1-14 prepared by M&N Engineering, P.C. and dated September 2018), which will replace and supersede the existing Exhibit G to the RFP.***

6. Please confirm that it is acceptable for Proposers to submit utilization plan(s) for M/WBE and SDVOB participation in any combination of roles including prime, subcontractor and/or suppliers.

***Yes, it is acceptable for Proposers to submit Utilization Plans for M/WBE and SDVOB participation in any combination of roles – including as prime consultant, sub-consultant and/or suppliers for this Project. Proposers' Utilization Plans should include all M/WBE and SDVOB firms that the Proposer intends to use on the Contract. Proposers that are certified may include themselves on the Utilization Plan along with other firms needed to reach the goals for the Project. Please note that a certified M/WBE firm will be given credit as EITHER an 'M' OR a 'W' for a particular percentage of the Project, but not both. SDVOB firms that are also a certified MBE and/or WBE may count the same task or percentage for both programs. Any additional questions regarding M/WBE or SDVOB participation should be directed to Justin-McLaughlin-Williams, reachable at [Justin.mclaughlin-williams@bpca.ny.gov](mailto:Justin.mclaughlin-williams@bpca.ny.gov).***

7. Exhibit C (BPCA's Standard Form of Contract) details insurance requirements in Section 10, but the required coverage limits for Valuable Papers Insurance and Excess Liability Insurance are not defined. Please verify the required coverage limits for these policies.

***Exhibit C reflects BPCA's Standard Form of Contract, through which the insurance coverage requirements set forth in Section VII of the RFP are to be memorialized. Any types of insurance coverages not included in Section VII of the RFP are not applicable to or required for the Project.***

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By signing the line below, I am acknowledging that all pages of this Addendum #1 have been received, reviewed and understood, and the information contained herein will be incorporated into the Proposal and Cost Proposal submitted. This document must be attached to the Proposal for consideration.

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Print Name	Signature	Date
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Number of pages received: \_\_\_\_\_<fill in>

Distributed to: All present and all prospective Proposers

**Addendum 1**  
**Exhibit A**

Sheets 1-8 prepared by McLaren Engineering Group dated March 30, 2018

***[NO FURTHER TEXT ON THIS PAGE]***

PREPARED BY:

**McLaren**  
ENGINEERING GROUP  
applied ingenuity

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100 Snake Hill Road, West Nyack, NY 10994  
Tel. (845) 353-6400 Fax, (845) 353-6509 [www.mgmcldaren.com](http://www.mgmcldaren.com)

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PREPARED FOR:  
HUGH L. CAREY  
BATTERY PARK CITY AUTHORITY  
WORLD FINANCIAL CENTER  
24TH FLOOR  
NEW YORK, N.Y. 10281

<u>DRAWING NO.</u>	<u>DRAWING TITLE</u>
-	COVER SHEET
S-1.0	OVERALL SITE PLAN
S-2.0	PILES PLAN OF 2018 PHASE 6
S-3.0	PILES PLAN OF 2019 PHASE 7
S-4.0	PILES PLAN OF 2020 PHASE 8
S-5.0	PILES PLAN OF 2021 PHASE 9
S-6.0	EXISTING SECTIONS
S-7.0	PILE REPAIR DETAILS

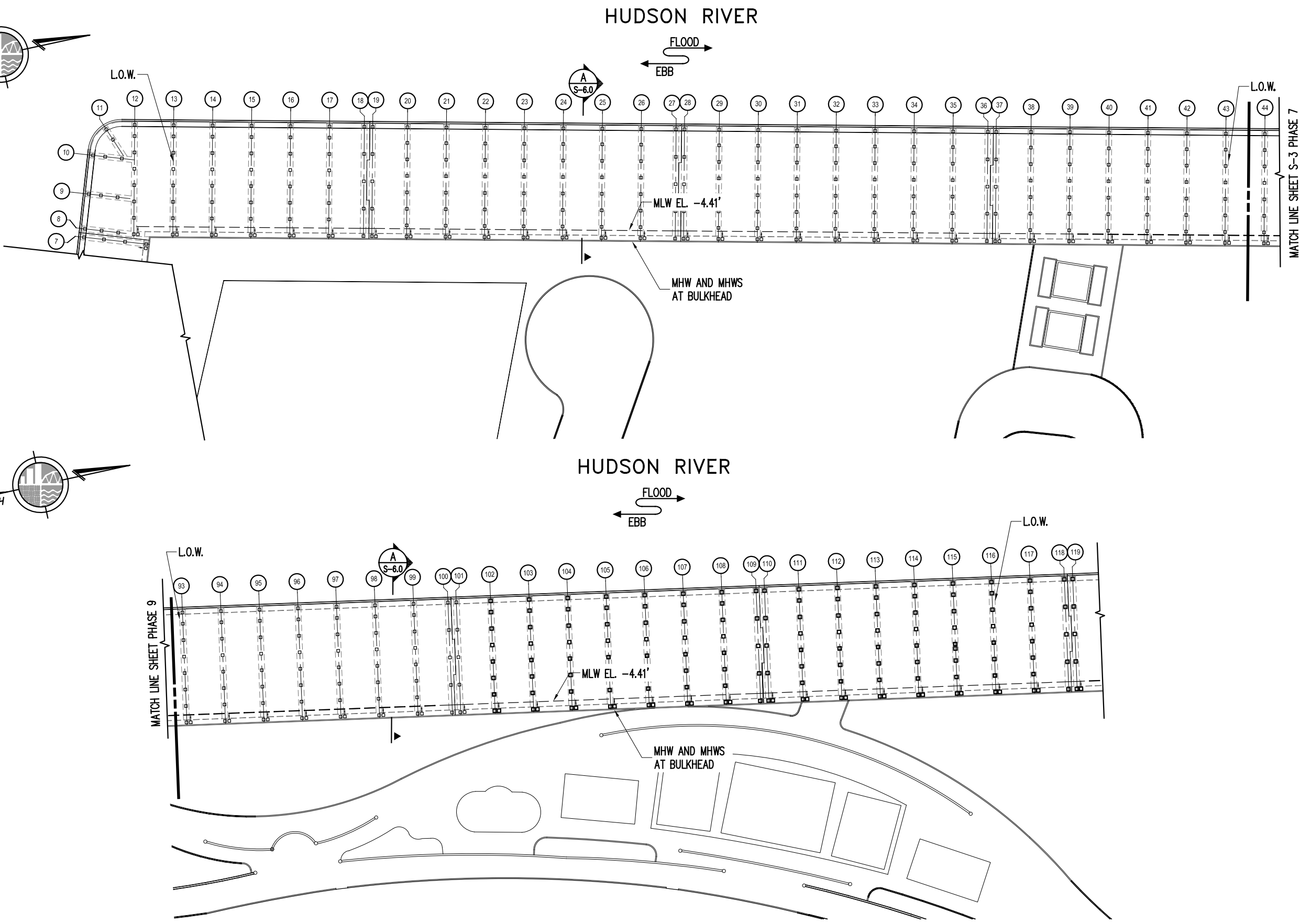
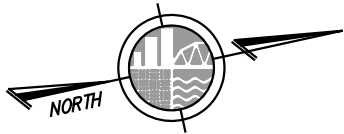
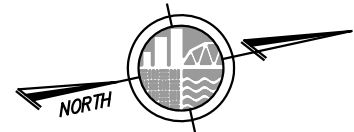




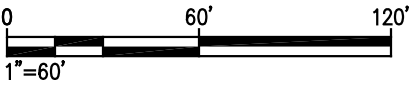


FILE NAME: P:\Proj\140\140950.32\10\_Dwg\CAD\140950.32-2 Piles Plan of 2018 Phase 6.dwg PLOT TIME: Wed, 28 Mar 2018 - 3:44pm LAST SAVE: Wed, 28 Mar 2018 - 3:39pm BY: eblu

WARNING - IT IS A VIOLATION OF NEW YORK STATE EDUCATIONAL LAW, SECTION 7209.2, FOR ANY PERSON, UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER OR LAND SURVEYOR, TO ALTER THIS DOCUMENT IN ANY WAY. IF ALTERED, THE ALTERING PERSON SHALL COMPLY WITH THE REQUIREMENTS OF NEW YORK EDUCATIONAL LAW, SECTION 7209.2



PILES PLAN - PHASE 6



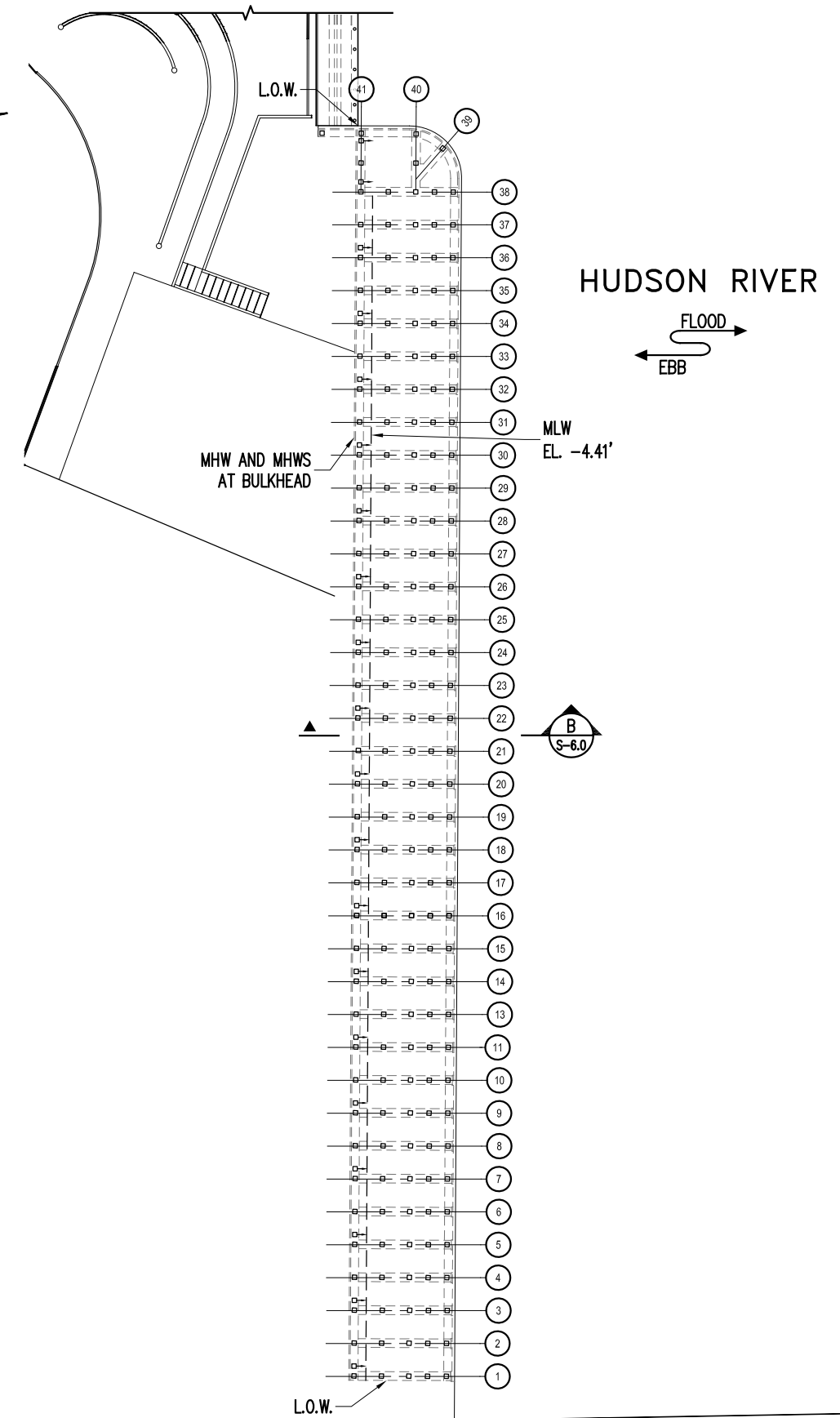
NOTE:  
L.O.W. = LIMIT OF WORK

- LEGEND:
- 20" x 20" SQUARE PRESTRESSED CONCRETE PILE
  - ▤ 20" x 20" SQUARE PRESTRESSED CONCRETE BATTER PILE

DEC PERMIT  
SUBMISSION

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PROJECT NO. 140950.32	
SCALE AS NOTED	
DATE 3/30/2018	
DRAWN BY RRR	
CHECKED BY CPP	
DRAWING NO. S-2.0	
3 OF 8 SHEETS	
PROJECT TITLE PILES PLAN OF 2018 PHASE 6	
PROJECT BATTERY PARK CITY ESPLANADE REPAIRS NEW YORK NEW YORK	
McLaren ENGINEERING GROUP applied ingenuity M. G. McLAREN P.C. 100 Snake Hill Road, West Nyack, NY 10994 T. (845) 353-6400 F. (845) 353-6509 www.mclaren.com	
DATE BY	



A graphic scale bar with markings at 0, 60', and 120'. Below the bar, it indicates that 1 inch equals 60 feet.

LEGEND:

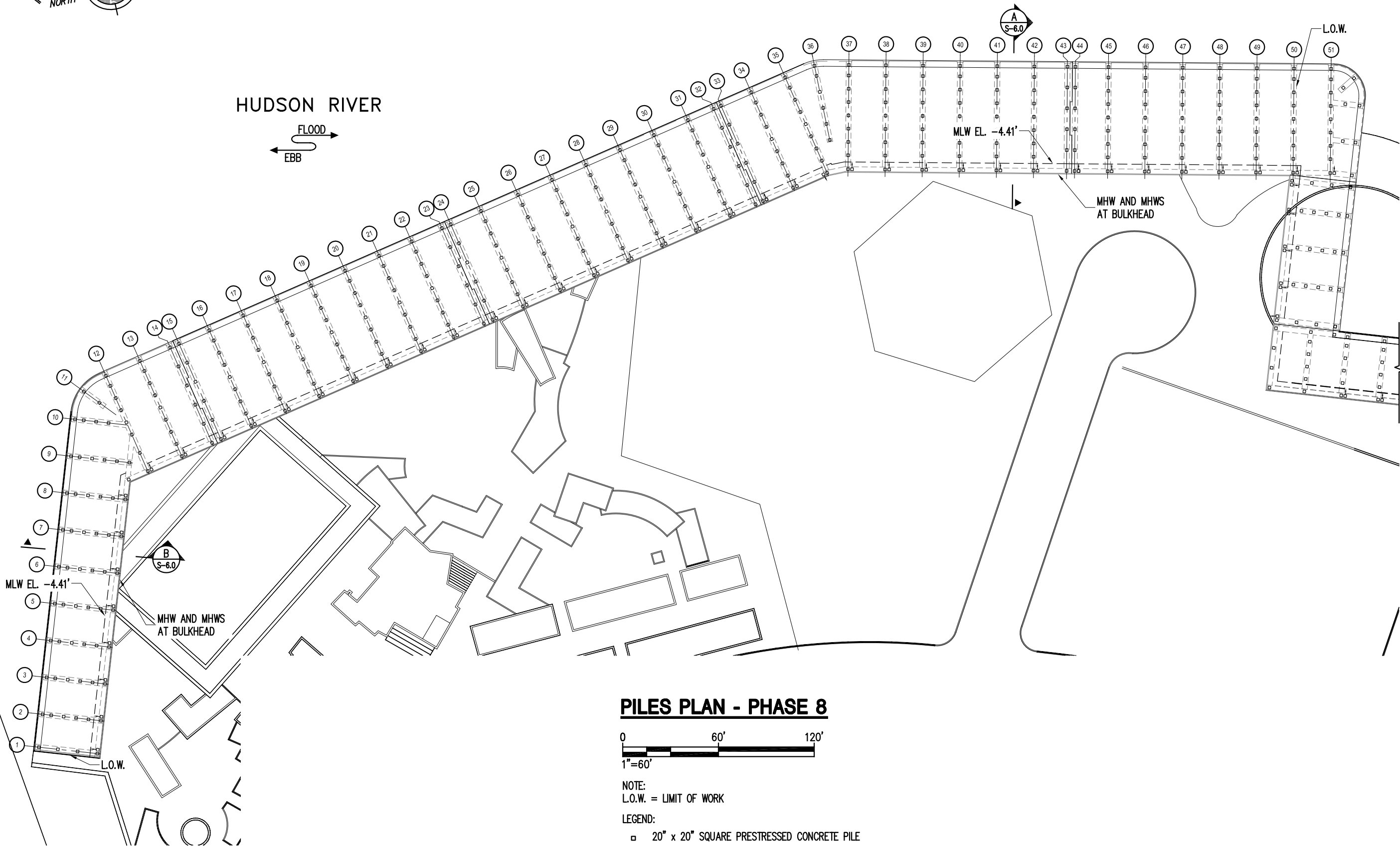
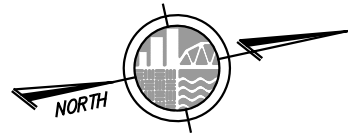
- WARNING - IT IS A VIOLATION OF NEW YORK STATE EDUCATIONAL LAW, SECTION 7200.2, FOR ANY PERSON, UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER OR LAND SURVEYOR, TO ALTER THIS DOCUMENT IN ANY WAY. IF ALTERED, THE ALTERING PERSON SHALL COMPLY WITH THE REQUIREMENTS OF NEW YORK EDUCATIONAL LAW, SECTION 7200.2**

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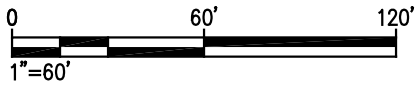
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PILES PLAN - PHASE 8



NOTE:  
L.O.W. = LIMIT OF WORK

- LEGEND:
- 20" x 20" SQUARE PRESTRESSED CONCRETE PILE
  - ▤ 20" x 20" SQUARE PRESTRESSED CONCRETE BATTER PILE

DEC PERMIT  
SUBMISSION

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PROJECT NO. 140950.32	
SCALE AS NOTED	
DATE 3/30/2018	
DRAWN BY RRR	
CHECKED BY CPP	
DRAWING NO. S-4.0	
5 OF 8 SHEETS	
PROJECT TITLE BATTERY PARK CITY ESPLANADE REPAIRS NEW YORK NEW YORK	
PROJECT M. G. McLAREN P.C. 100 Snake Hill Road, West Nyack, NY 10994 T. (845) 353-6400 F. (845) 353-6509 www.mclaren.com	
McLAREN ENGINEERING GROUP applied ingenuity	
DATE	
BY	

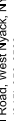


A graphic scale bar is shown with markings at 0, 60', and 120'. Below the bar, the text  $1'' = 60'$  indicates the scale.

LEGEND:

- WARNING - IT IS A VIOLATION OF NEW YORK STATE EDUCATIONAL LAW, SECTION 7200.2, FOR ANY PERSON, UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER OR LAND SURVEYOR, TO ALTER THIS DOCUMENT IN ANY WAY. IF ALTERED, THE ALTERING PERSON SHALL COMPLY WITH THE REQUIREMENTS OF NEW YORK EDUCATIONAL LAW, SECTION 7200.2**

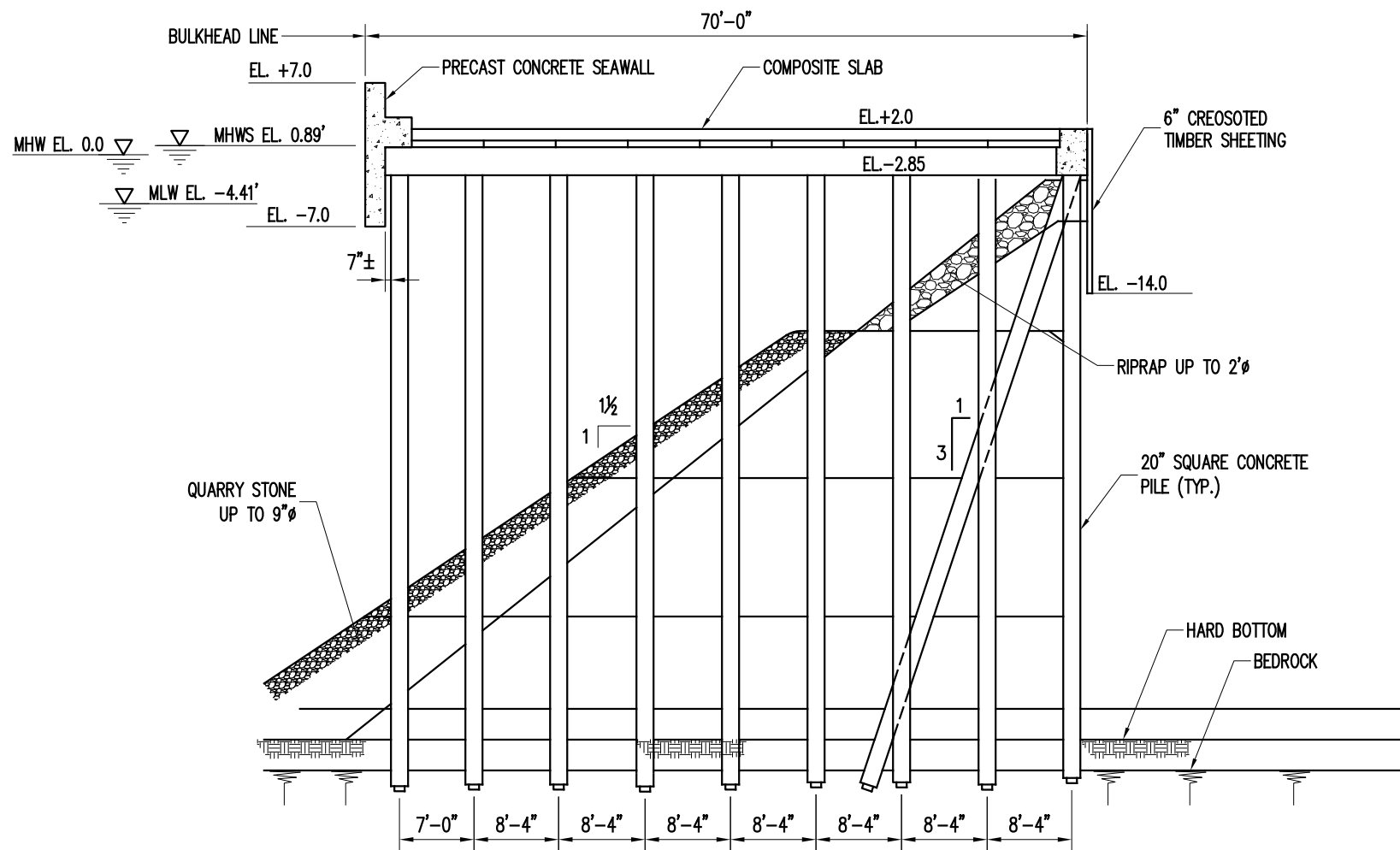
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<b>McLaren</b>	<b>No.</b>	<b>Date</b>	<b>Revision</b>	<b>By</b>
<b>ENGINEERING GROUP</b>				
<b>applied ingenuity</b>				
				
M. G. McLAREN P.C. 100 Snake Hill Road, West Nyack, NY 10994 T. (845) 333-6400 F. (845) 333-6509 www.mgmlaren.com				

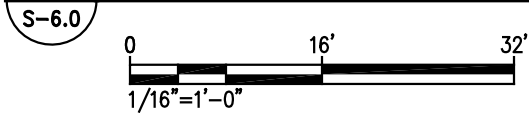
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SCALE	AS NOTED
DATE	3/30/2018
DRAWN BY	RRR
CHECKED BY	CPP

**S-5.0**

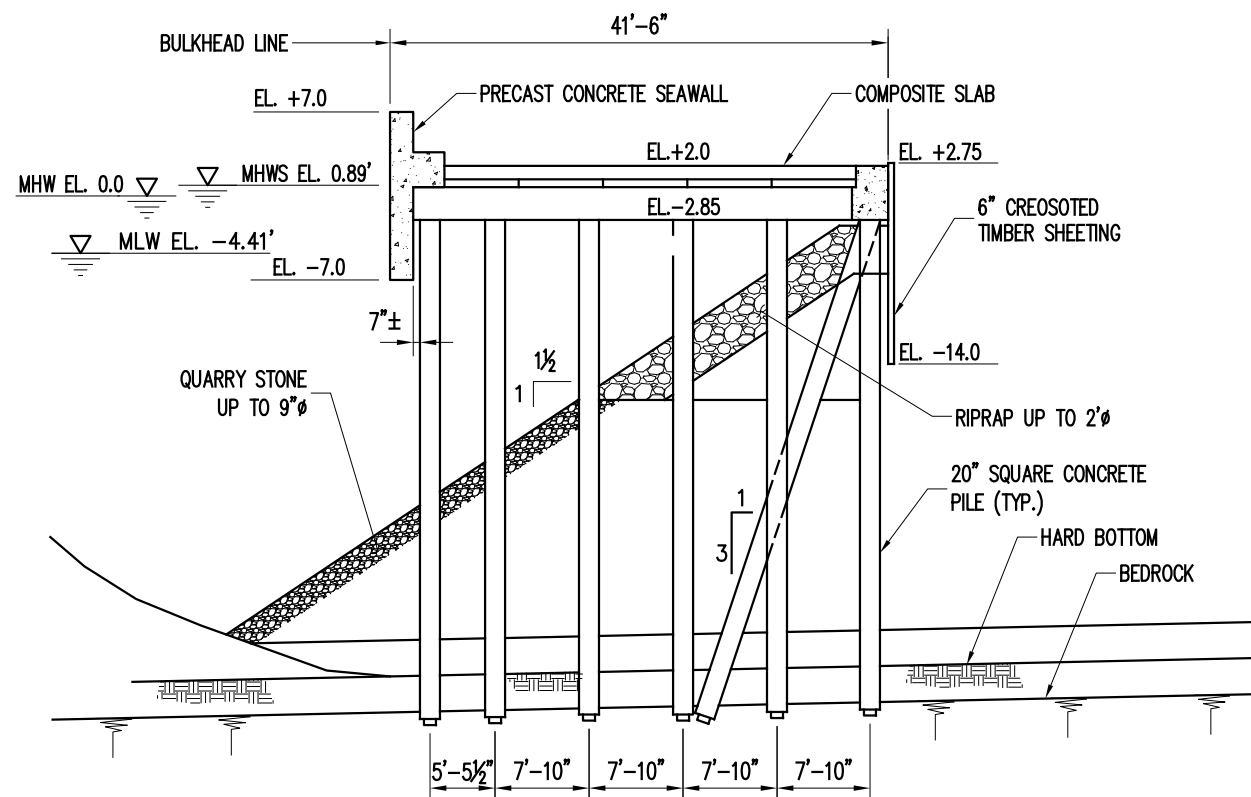
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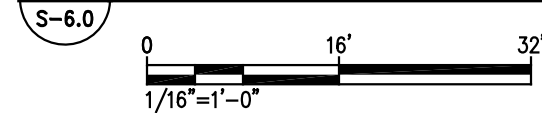
**A** TYPICAL EXISTING ESPLANADE SECTION



NOTE:  
SUBSURFACE PROFILE TAKEN FROM AS-BUILT "BATTERY PARK CITY"  
DRAWINGS DEVELOPED BY MUESER, RUTLEDGE, WENTWORTH, AND JOHNSTON  
CONSULTING ENGINEERS, DATED JUNE 17, 1974.



**B** TYPICAL EXISTING ESPLANADE SECTION



NOTE:  
SUBSURFACE PROFILE TAKEN FROM AS-BUILT "BATTERY PARK CITY"  
DRAWINGS DEVELOPED BY MUESER, RUTLEDGE, WENTWORTH, AND JOHNSTON  
CONSULTING ENGINEERS, DATED JUNE 17, 1974.

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SUBMISSION

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PROJECT		BATTERY PARK CITY ESPLANADE REPAIRS NEW YORK	
SHEET TITLE		EXISTING SECTION	
PROJECT NO.		140950.32	
SCALE		AS NOTED	
DATE		3/30/2018	
DRAWN BY		RRR	
CHECKED BY		CPP	
DRAWING NO.		S-6.0	
		7 OF 8 SHEETS	





A horizontal number line representing distance in feet. It is marked with 0, 4', and 8'. A tick mark is placed at 3/16" = 1'-0".

0 4' 8'

$\frac{3}{16}'' = 1' - 0''$

**EXHIBIT G**

*Uncropped version of the Phase 6 Drawings (sheets 1-14 prepared by M&N Engineering, P.C. and dated September 2018)*

**[NO FURTHER TEXT ON THIS PAGE]**



# A

INDEX TO DRAWINGS		
INDEX NO.	SHEET NO.	SHEET TITLE
1	G-001	TITLE SHEET
2	G-002	BLOCK AND LOT DIAGRAM
3	G-003	FEMA MAPS
4	G-004	GENERAL NOTES
STRUCTURAL		
5	S-101	FACILITY PLAN – ELEVATIONS AND LOCATION KEY
6	S-102	FACILITY PLAN – ELEVATIONS AND LOCATION KEY
7	S-103	FACILITY PLAN – ELEVATIONS AND LOCATION KEY
8	S-501	REPAIR DETAILS
9	S-502	REPAIR DETAILS
10	S-601	PILE REPAIR SCHEDULE – SHEET 1 OF 5
10	S-602	PILE REPAIR SCHEDULE – SHEET 2 OF 5
12	S-603	PILE REPAIR SCHEDULE – SHEET 3 OF 5
13	S-604	PILE REPAIR SCHEDULE – SHEET 4 OF 5
14	S-605	PILE REPAIR SCHEDULE – SHEET 5 OF 5



**A**






BLOCK AND LOT DIAGRAM: ESPLANADE PLAZA  
NOT TO SCALE

BLOCK AND LOT DIAGRAM: ROCKEFELLER PARK ESPLANADE & NORTH ESPLANADE  
NOT TO SCALE

OWNER: BATTERY PARK CITY AUTHORITY  
ZONING DISTRICT: BPC

OWNER/ CLIENT




NEW YORK

STATE OF OPPORTUNITY.

Battery Park City Authority

PRIME CONSULTANT

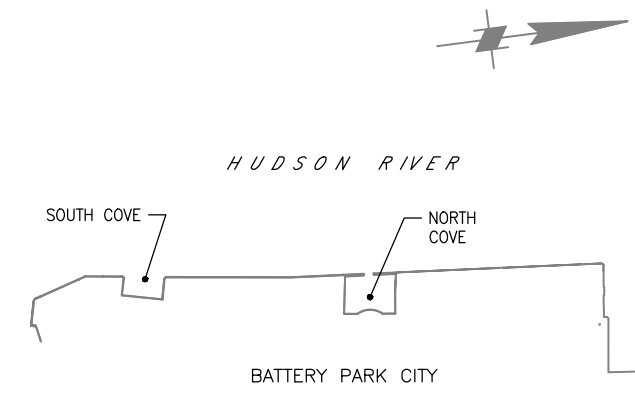


m&n engineering, p.c.

529 FIFTH AVENUE, 14TH FLOOR  
NEW YORK, NY 10017  
(212) 768-7454

NO.	REVISION	APPD	DATE

KEY PLAN



PROJECT

BATTERY PARK CITY AUTHORITY PHASE VI  
PILE REMEDIATION ESPLANADE PLAZA,  
ROCKEFELLER PARK ESPLANADE AND  
NORTH ESPLANADE

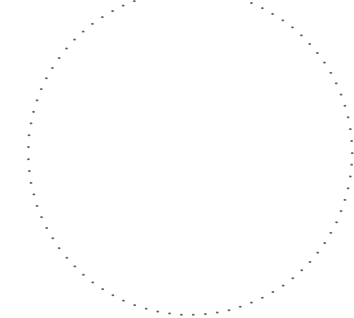
DRAWING TITLE

BLOCK AND LOT DIAGRAM

DOB IDENTIFICATION NUMBER

--

SEAL & SIGNATURE



DATE: SEPTEMBER 2018

PROJECT NO. 9328

DRAWN BY BF

CHECKED BY JS

DRAWING NO. G-002

PE NYS LIC # BSCAN

SHEET NO. 2 of 14

DOB APPROVAL STAMP





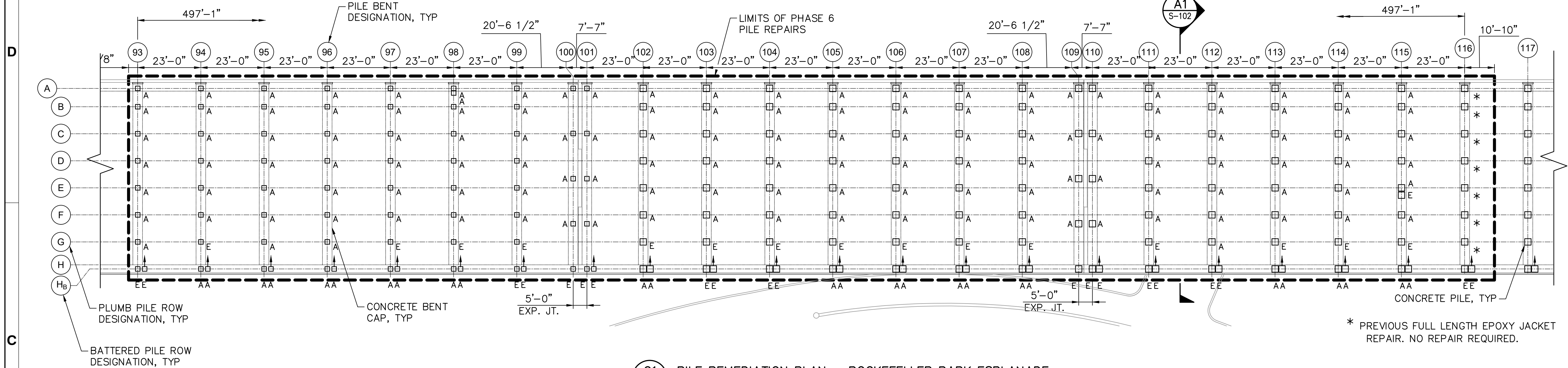
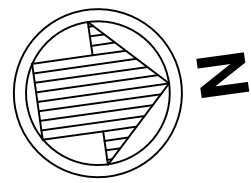


	1	2	3	4	5																																																							
D	<b>GENERAL NOTES</b> <div>1. ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE CONTRACT DRAWINGS AND SPECIFICATIONS. IN CASE OF DISCREPANCIES, THE CONTRACT DRAWINGS SHALL GOVERN.</div> <div>2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PERFORMANCE OF ALL WORK ON THE CONTRACT DOCUMENTS, INCLUDING DEMOLITION AND REMOVAL AND INSTALLATION OF ALL WORK MATERIALS IN FULL COMPLIANCE WITH CODES, RULES AND REGULATIONS GOVERNING SAID WORK.</div> <div>3. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR ALL MEANS AND METHODS OF THE WORK AND FOR THE SAFETY OF THE SITE.</div> <div>4. CONTRACTOR SHALL VERIFY ALL INDICATED CONDITIONS AND DIMENSIONS IN THE FIELD BEFORE COMMENCING ANY FABRICATION, ORDERING OF MATERIAL, OR PERFORMING ANY WORK. CONTRACTOR SHALL NOTIFY THE OWNER’S REPRESENTATIVE, IN WRITING, OF ANY DISCREPANCIES IN CONDITIONS AND/OR DIMENSIONS FOUND IN THE FIELD AND IN THE CONTRACT DOCUMENTS. CONTRACTOR SHALL ALSO NOTIFY THE OWNER’S REPRESENTATIVE OF ANY CONDITIONS THAT MAY HAMPER THE PERFORMANCE OF THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.</div>					<b>GENERAL NOTES CONT'D</b> <div>20. UNLESS NOTED OTHERWISE ON THE CONTRACT DRAWINGS OR IN THE CONTRACT OR SPECIFICATIONS, ALL LABOR, EQUIPMENT, MATERIALS, ETC. SHALL BE INCLUDED IN THE CONTRACTOR'S LUMP SUM PRICE TO COMPLETE THE WORK. ADDITIONAL UNIT PRICES MAY ALSO BE REQUESTED IN THE BID DOCUMENTS.</div> <div>21. THE LOCATIONS OF EXISTING CONCRETE PILES AND OTHER STRUCTURAL ELEMENTS SHOWN ON THE CONTRACT DRAWINGS ARE BASED ON AVAILABLE INFORMATION AND ARE SCHEMATIC. CONTRACTOR'S BID SHOULD TAKE THIS INTO CONSIDERATION AND SHOULD BE BASED ON FIELD VERIFICATION OF EXISTING CONDITIONS.</div> <div>22. CONCRETE PILES MAY NOT BE PERFECTLY PLUMB IN THEIR EXISTING CONDITION. CONTRACTOR SHALL TAKE THIS CONDITION INTO ACCOUNT IN THE BASE BID FOR THIS WORK.</div> <div>23. THE CONTRACTOR SHALL PROVIDE AN OFFICE TRAILER FOR THE CONSTRUCTION MANAGEMENT AND/OR INSPECTION TEAM ON THE BARGES, ONE IN THE NORTH AND ONE IN THE SOUTH</div>					<b>MATERIALS</b> <div>1. EPOXY MORTAR/CEMENTITIOUS GROUT <div>A. EPOXY MORTAR GROUT SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH (F'c) OF 6000 PSI. B. EPOXY MORTAR AND FORMWORK SHALL BE SUITABLE FOR PLACEMENT IN THE MARINE ENVIRONMENT (FULL IMMERSION IN SALT WATER) VIA PUMPING, AND SHALL BE MANUFACTURED BY ONE OF THE FOLLOWING COMPANIES OR AN APPROVED SUBSTITUTION: <div>a. BASF BUILDING SYSTEMS OF SHAKOPEE, MN b. FIVE STAR PRODUCTS OF SHELTON, CT c. SIKA CORPORATION OF LYNDHURST, NJ d. SIMPSON STRONG TIE OF PLEASANTON, CA e. DENSO NORTH AMERICA OF HOUSTON, TX</div></div></div> <div>2. CEMENTITIOUS HAND PACK SHALL BE SPEEDCRETE BLUE LINE MANUFACTURED BY EUCLID CHEMICAL OF CLEVELAND, OH OR APPROVED EQUAL.</div> <div>3. FORMWORK SHALL BE A MINIMUM OF 1/8TH INCH THICK TRANSLUCENT RIGID FIBERGLASS REINFORCED PLASTIC (FRP). FORMS SHALL HAVE SUFFICIENT STRENGTH TO WITHSTAND THE PRESSURE RESULTING FROM ALL ENVIRONMENTAL FORCES PRIOR TO THE PLACEMENT OF CONCRETE AS WELL AS FORCES EXERTED DURING THE PLACEMENT OF CONCRETE AND SHALL HAVE SUFFICIENT RIGIDITY TO MAINTAIN SPECIFIED TOLERANCES.</div>					<div>OWNER/ CLIENT <div><div><div><b>NEW YORK</b> STATE OF OPPORTUNITY.</div></div><div><b>Battery Park City Authority</b></div></div></div> <div>PRIME CONSULTANT <div><div><b>m&amp;n engineering, p.c.</b></div><div>529 FIFTH AVENUE, 14TH FLOOR NEW YORK, NY 10017 (212) 768-7454</div></div></div> <table><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td>NO.</td><td>REVISION</td><td>APPD</td><td>DATE</td></tr></table> <div>KEY PLAN </div> <div>PROJECT BATTERY PARK CITY AUTHORITY PHASE VI PILE REMEDIATION ESPLANADE PLAZA, ROCKEFELLER PARK ESPLANADE AND NORTH ESPLANADE</div> <div>DRAWING TITLE <b>GENERAL NOTES</b></div> <div>DOB IDENTIFICATION NUMBER --</div> <div>SEAL &amp; SIGNATURE <div>DATE: SEPTEMBER 2018 PROJECT NO. 9328 DRAWN BY BF CHECKED BY JS DRAWING NO. <b>G-004</b> SHEET NO. 4 of 14</div></div> <div>PE NYS LIC # BSCAN</div> <div>DOB APPROVAL STAMP</div>																																									NO.	REVISION	APPD	DATE
NO.	REVISION	APPD	DATE																																																									
C	<div>5. THROUGHOUT THE CONTRACT DRAWINGS, SPECIFICATIONS AND THESE GENERAL NOTES THE TERM "OWNER" IS USED. THIS TERM REFERENCES THE BATTERY PARK CITY AUTHORITY (BPCA).</div> <div>6. UPON COMPLETION OF WORK, THE CONTRACTOR SHALL REMOVE ALL DEBRIS, EQUIPMENT AND UNUSED MATERIAL FROM THE SITE.</div> <div>7. ALL DEMOLISHED MATERIAL, EXCEPT ITEMS DIRECTED BY THE OWNER TO BE SALVAGED, SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL REQUIREMENTS.</div> <div>8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF THE CONSTRUCTION SITE AND THE AREAS OF WORK WHILE PERFORMING THE WORK UNDER THIS CONTRACT. CONSTRUCTION DEBRIS SHALL BE REMOVED FROM THE CONSTRUCTION SITE ON A DAILY BASIS. NO BURNING OF DEBRIS SHALL BE PERMITTED.</div> <div>9. DURING ALL PHASES OF THE WORK, ALL PRECAUTIONS SHALL BE TAKEN AS NECESSARY OR MAY BE REQUIRED TO PERMANENTLY PREVENT CONTAMINATED WATER, GASOLINE, CONSTRUCTION DEBRIS AND ANY OTHER CONTAMINANT FROM ENTERING THE WATERWAY. THIS INCLUDES MATERIAL BEING PUMPED INTO PILE FORMS.</div> <div>10. CONTRACTOR SHALL INSTALL A FLOATING BOOM AND TURBIDITY CURTAIN DURING ALL PHASES OF MARINE CONSTRUCTION.</div> <div>11. DISPOSAL OF HAZARDOUS OR CONTAMINATED MATERIALS, GROUNDWATER OR SOIL ENCOUNTERED SHALL BE IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL REQUIREMENTS.</div> <div>12. CONTRACTOR SHALL EXERCISE CARE TO PREVENT DAMAGE TO ANY MATERIALS OR STRUCTURES THAT ARE TO REMAIN IN PLACE. THE CONTRACTOR SHALL REPAIR ANY DAMAGE TO THESE MATERIALS AT NO ADDITIONAL COST TO THE OWNER. THE RESTORATION WORK SHALL BE APPROVED BY THE OWNER’S REPRESENTATIVE.</div> <div>13. ALL AREAS OUTSIDE OF THE "LIMITS OF WORK" SHOWN ON THE CONTRACT DRAWINGS, WHICH ARE DAMAGED BY THE WORK, SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AT NO ADDITIONAL COST TO THE OWNER. THE RESTORATION WORK SHALL BE APPROVED BY THE OWNER'S REPRESENTATIVE.</div>										B																																																	
	<div>14. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL REQUIREMENTS.</div> <div>15. THE CONTRACTOR SHALL SCHEDULE AND COORDINATE ALL WORK AND DELIVERIES OF CONSTRUCTION MATERIALS ON SITE WITH THE CONSTRUCTION MANAGER. THERE IS LIMITED ACCESS TO THE SITE DUE TO TRAFFIC BARRIERS, TREES, PLANTS, SHRUBS, BENCHES, TRASH CANS, ETC. ALL EGRESS AND EXITS TO AND FROM THE PIER AND CONSTRUCTION SITE SHALL BE KEPT READILY ACCESSIBLE AND CLEAR AT ALL TIMES. CONSTRUCTION EQUIPMENT WILL NOT BE PERMITTED TO OBSTRUCT ROADWAYS AND OR PASSAGEWAYS.</div> <div>16. THE CONTRACTOR SHALL PREPARE, LAYOUT AND INSTALL WORK IN SUCH A MANNER AS NOT TO DELAY OR INTERFERE WITH THE CARRYING FORWARD OF THE WORK UNDER THIS CONTRACT AND/OR ANY OTHER WORK BEING PERFORMED ON THE SITE. CONTRACTOR SHALL SUBMIT A LOGISTICS PLAN THAT DEMONSTRATES HOW THE PROJECT WILL BE STAGED AND WORK PERFORMED. THIS PLAN SHALL INCLUDE POSITIONING OF EQUIPMENT DURING ALL PHASES OF WORK. THIS PLAN SHALL BE SUBMITTED BY THE CONTRACTOR FOR REVIEW BY THE OWNER'S REPRESENTATIVE. NO WORK ON THIS SITE SHALL BE PERMITTING TO COMMENCE PRIOR TO THE REVIEW OF THIS DOCUMENT.</div> <div>17. CONTRACTOR SHALL SEEK APPROVAL OF OWNER’S REPRESENTATIVE PRIOR TO MOVING AND/OR STORING ANY CONSTRUCTION MATERIALS ON THE SITE. IN ADDITION, THE CONTRACTOR SHALL SUBMIT TO THE OWNER’S REPRESENTATIVE FOR REVIEW THE GROSS VEHICLE WEIGHT AND AXLE ALIGNMENT OF ANY HEAVY MACHINERY THAT WILL BE DRIVEN ON THE SITE. NO HEAVY CONSTRUCTION MACHINERY WILL BE PERMITTED ON PIER UNTIL THIS REVIEW HAS BEEN COMPLETED.</div> <div>18. THE CONTRACTOR ASSUMES ALL RESPONSIBILITY FOR HIS USE OF THE PHASE 6 SITE.</div> <div>19. CONTRACTOR SHALL ALLOW AND MAKE ANY NECESSARY ACCOMMODATIONS FOR THE INSPECTION OF WORK BY OWNER'S REPRESENTATIVE AT ANY TIME DURING THE INSTALLATION OF WORK GOVERNED BY THE CONTRACT DOCUMENTS.</div>																																																											
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A	<div>1. ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE CONTRACT DRAWINGS AND SPECIFICATIONS. IN CASE OF DISCREPANCIES, THE CONTRACT DRAWINGS SHALL GOVERN.</div> <div>2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PERFORMANCE OF ALL WORK ON THE CONTRACT DOCUMENTS, INCLUDING DEMOLITION AND REMOVAL AND INSTALLATION OF ALL WORK MATERIALS IN FULL COMPLIANCE WITH CODES, RULES AND REGULATIONS GOVERNING SAID WORK.</div> <div>3. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR ALL MEANS AND METHODS OF THE WORK AND FOR THE SAFETY OF THE SITE.</div> <div>4. CONTRACTOR SHALL VERIFY ALL INDICATED CONDITIONS AND DIMENSIONS IN THE FIELD BEFORE COMMENCING ANY FABRICATION, ORDERING OF MATERIAL, OR PERFORMING ANY WORK. CONTRACTOR SHALL NOTIFY THE OWNER’S REPRESENTATIVE, IN WRITING, OF ANY DISCREPANCIES IN CONDITIONS AND/OR DIMENSIONS FOUND IN THE FIELD AND IN THE CONTRACT DOCUMENTS. CONTRACTOR SHALL ALSO NOTIFY THE OWNER’S REPRESENTATIVE OF ANY CONDITIONS THAT MAY HAMPER THE PERFORMANCE OF THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.</div>					<b>GENERAL NOTES CONT'D</b> <div>20. UNLESS NOTED OTHERWISE ON THE CONTRACT DRAWINGS OR IN THE CONTRACT OR SPECIFICATIONS, ALL LABOR, EQUIPMENT, MATERIALS, ETC. SHALL BE INCLUDED IN THE CONTRACTOR'S LUMP SUM PRICE TO COMPLETE THE WORK. ADDITIONAL UNIT PRICES MAY ALSO BE REQUESTED IN THE BID DOCUMENTS.</div> <div>21. THE LOCATIONS OF EXISTING CONCRETE PILES AND OTHER STRUCTURAL ELEMENTS SHOWN ON THE CONTRACT DRAWINGS ARE BASED ON AVAILABLE INFORMATION AND ARE SCHEMATIC. CONTRACTOR'S BID SHOULD TAKE THIS INTO CONSIDERATION AND SHOULD BE BASED ON FIELD VERIFICATION OF EXISTING CONDITIONS.</div> <div>22. CONCRETE PILES MAY NOT BE PERFECTLY PLUMB IN THEIR EXISTING CONDITION. CONTRACTOR SHALL TAKE THIS CONDITION INTO ACCOUNT IN THE BASE BID FOR THIS WORK.</div> <div>23. THE CONTRACTOR SHALL PROVIDE AN OFFICE TRAILER FOR THE CONSTRUCTION MANAGEMENT AND/OR INSPECTION TEAM ON THE BARGES, ONE IN THE NORTH AND ONE IN THE SOUTH</div>					<b>MATERIALS</b> <div>1. EPOXY MORTAR/CEMENTITIOUS GROUT <div>A. EPOXY MORTAR GROUT SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH (F'c) OF 6000 PSI. B. EPOXY MORTAR AND FORMWORK SHALL BE SUITABLE FOR PLACEMENT IN THE MARINE ENVIRONMENT (FULL IMMERSION IN SALT WATER) VIA PUMPING, AND SHALL BE MANUFACTURED BY ONE OF THE FOLLOWING COMPANIES OR AN APPROVED SUBSTITUTION: <div>a. BASF BUILDING SYSTEMS OF SHAKOPEE, MN b. FIVE STAR PRODUCTS OF SHELTON, CT c. SIKA CORPORATION OF LYNDHURST, NJ d. SIMPSON STRONG TIE OF PLEASANTON, CA e. DENSO NORTH AMERICA OF HOUSTON, TX</div></div></div> <div>2. CEMENTITIOUS HAND PACK SHALL BE SPEEDCRETE BLUE LINE MANUFACTURED BY EUCLID CHEMICAL OF CLEVELAND, OH OR APPROVED EQUAL.</div> <div>3. FORMWORK SHALL BE A MINIMUM OF 1/8TH INCH THICK TRANSLUCENT RIGID FIBERGLASS REINFORCED PLASTIC (FRP). FORMS SHALL HAVE SUFFICIENT STRENGTH TO WITHSTAND THE PRESSURE RESULTING FROM ALL ENVIRONMENTAL FORCES PRIOR TO THE PLACEMENT OF CONCRETE AS WELL AS FORCES EXERTED DURING THE PLACEMENT OF CONCRETE AND SHALL HAVE SUFFICIENT RIGIDITY TO MAINTAIN SPECIFIED TOLERANCES.</div>					<div>OWNER/ CLIENT <div><div><div><b>NEW YORK</b> STATE OF OPPORTUNITY.</div></div><div><b>Battery Park City Authority</b></div></div></div> <div>PRIME CONSULTANT <div><div><b>m&amp;n engineering, p.c.</b></div><div>529 FIFTH AVENUE, 14TH FLOOR NEW YORK, NY 10017 (212) 768-7454</div></div></div> <table><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td>NO.</td><td>REVISION</td><td>APPD</td><td>DATE</td></tr></table> <div>KEY PLAN </div> <div>PROJECT BATTERY PARK CITY AUTHORITY PHASE VI PILE REMEDIATION ESPLANADE PLAZA, ROCKEFELLER PARK ESPLANADE AND NORTH ESPLANADE</div> <div>DRAWING TITLE <b>GENERAL NOTES</b></div> <div>DOB IDENTIFICATION NUMBER --</div> <div>SEAL &amp; SIGNATURE <div>DATE: SEPTEMBER 2018 PROJECT NO. 9328 DRAWN BY BF CHECKED BY JS DRAWING NO. <b>G-004</b> SHEET NO. 4 of 14</div></div> <div>PE NYS LIC # BSCAN</div> <div>DOB APPROVAL STAMP</div>																																									NO.	REVISION	APPD	DATE
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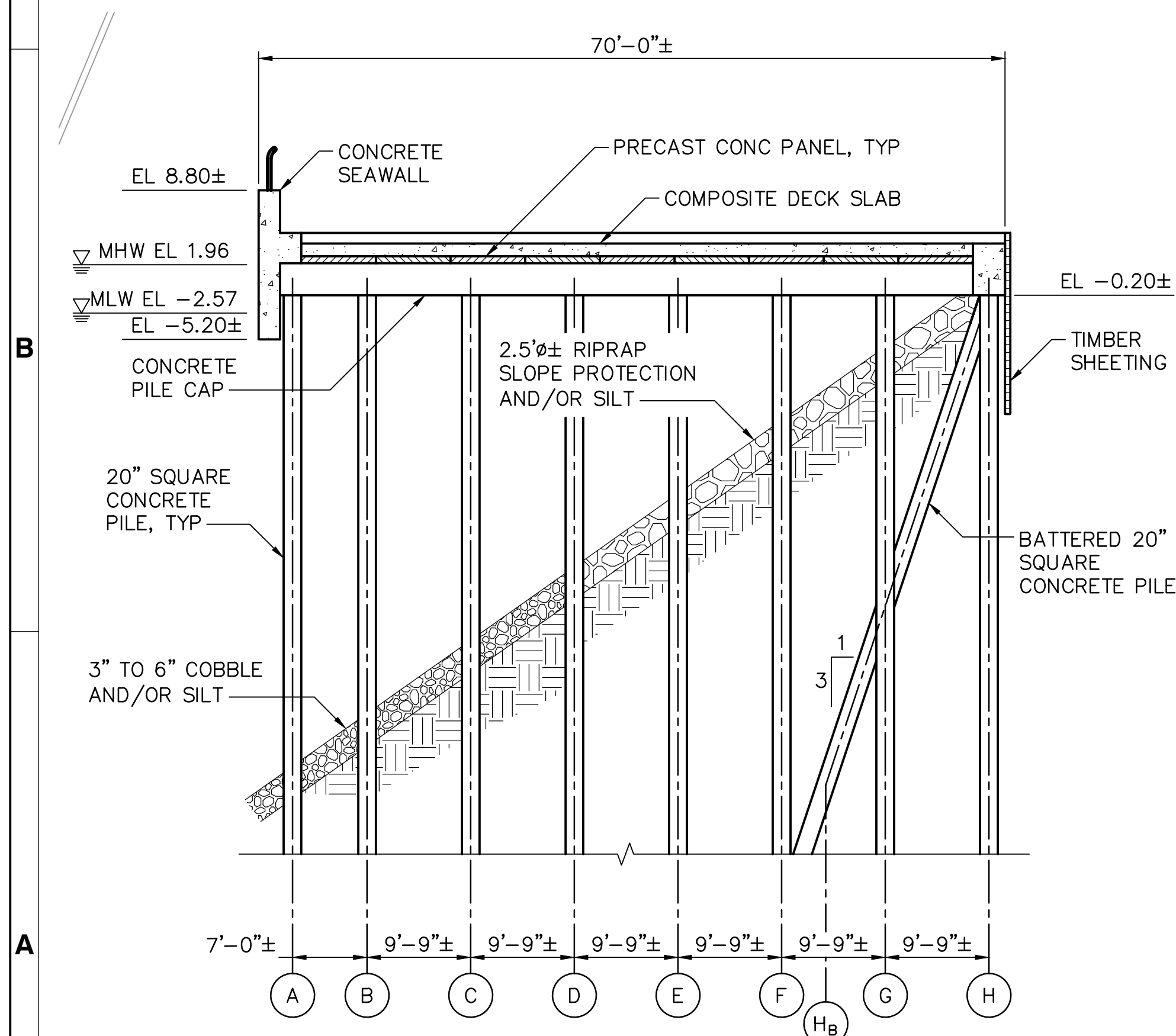
**C1**  
S-102  
**PILE REMEDIATION PLAN – ROCKEFELLER PARK ESPLANADE**  
SCALE: 1"=20'

**GENERAL NOTES:**

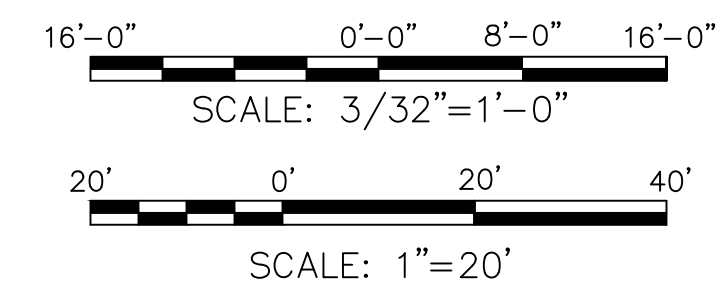
- ALL PILES SHOWN ARE 20" SQUARE CONCRETE.
- LIMIT OF WORK FOR PHASE 6 (ROCKEFELLER PARK) PILE REHABILITATION WORK IS BENTS 93 TO 116. BENT 116 IS THE TWENTY-FIRST EAST TO WEST RUNNING BENT SOUTH OF NORTH ESPLANADE.
- CONTRACTOR SHALL CONFIRM BENT NUMBERING SYSTEM WITH THE OWNER'S REPRESENTATIVE PRIOR TO ORDERING ANY MATERIALS OR COMMENCEMENT OF ANY WORK.
- MUDLINE SHOWN IN SECTIONS REPRESENTS GENERAL CONDITIONS. SEE REPAIR SCHEDULE FOR MUDLINE TYPE AND REQUIRED REPAIR AT EACH PILE.

**LEGEND:**

- 20" SQUARE CONCRETE PILE
- REPAIR TYPE (SEE REPAIR SCHEDULE FOR REQUIRED LENGTHS).



**A1**  
S-101  
**SECTION**  
SCALE: 3/32"=1'-0"



OWNER/ CLIENT

**NEW YORK**  
STATE OF  
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**Battery Park  
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PRIME CONSULTANT

**m&n engineering, p.c.**

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NEW YORK, NY 10017  
(212) 768-7454

NO.	REVISION	APP'D	DATE

KEY PLAN

HUDSON RIVER

SOUTH COVE

NORTH COVE

BATTERY PARK CITY

LIMITS OF WORK

PROJECT

BATTERY PARK CITY AUTHORITY PHASE VI  
PILE REMEDIATION ESPLANADE PLAZA,  
ROCKEFELLER PARK ESPLANADE AND  
NORTH ESPLANADE

DRAWING TITLE

**FACILITY PLAN - ELEVATIONS  
AND LOCATION KEY**

DOB IDENTIFICATION NUMBER

--

SEAL & SIGNATURE

DATE: SEPTEMBER 2018

PROJECT NO. 9328

DRAWN BY BF

CHECKED BY JS

DRAWING NO.

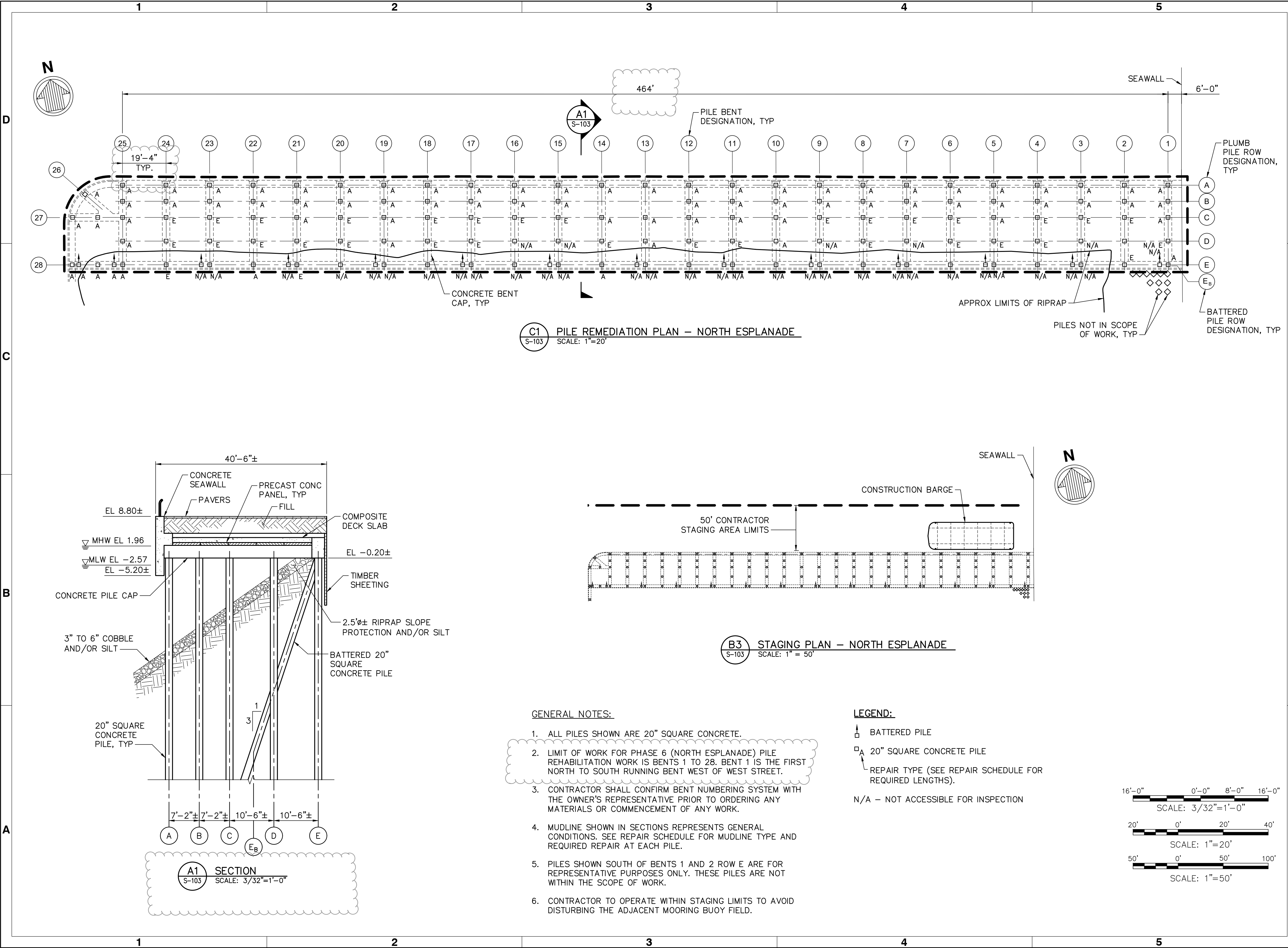
**S-102**

PE  
NYS LIC #

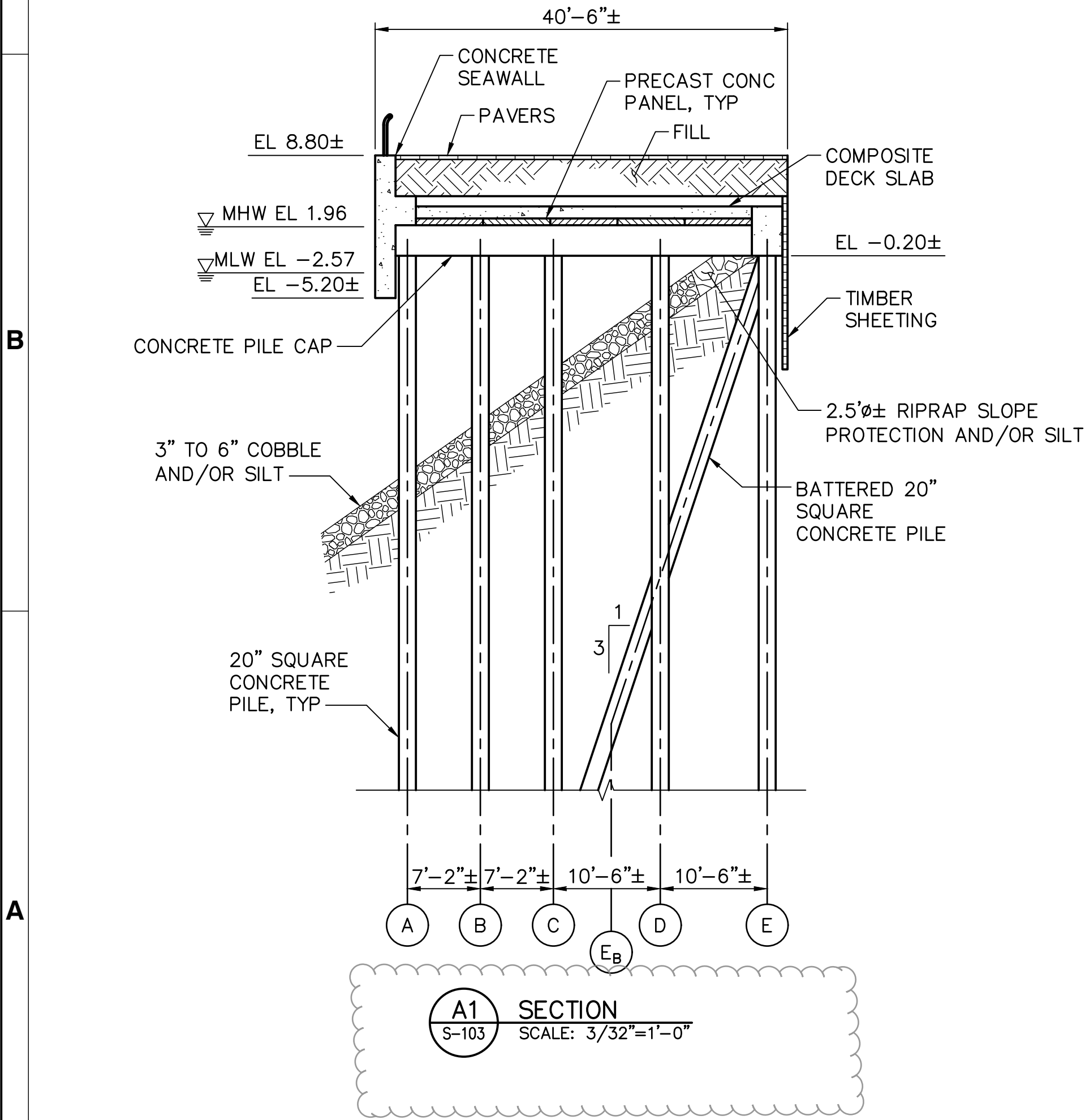
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DOB APPROVAL STAMP

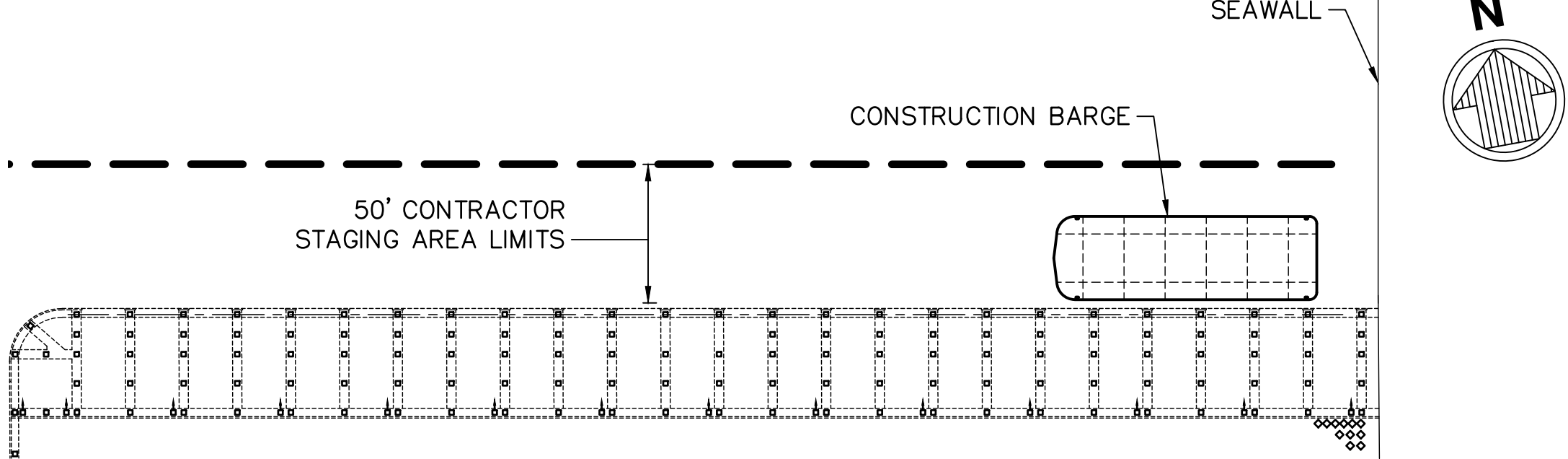




C1 PILE REMEDIATION PLAN – NORTH ESPLANADE  
SCALE: 1"=20'



A1 SECTION  
SCALE: 3/32"=1'-0"



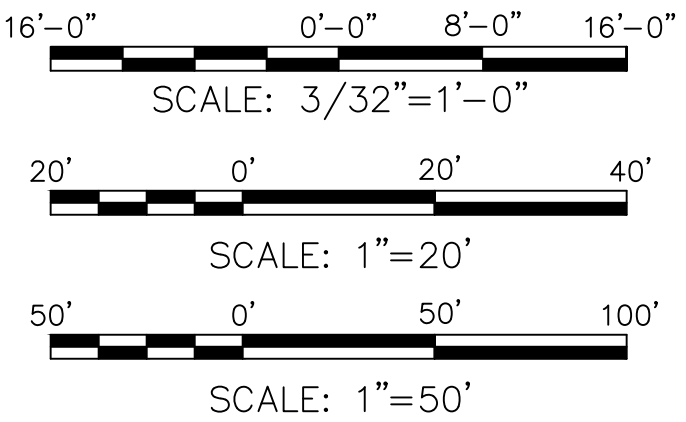
B3 STAGING PLAN – NORTH ESPLANADE  
SCALE: 1"=50'

GENERAL NOTES:


1. ALL PILES SHOWN ARE 20" SQUARE CONCRETE.
2. LIMIT OF WORK FOR PHASE 6 (NORTH ESPLANADE) PILE REHABILITATION WORK IS BENTS 1 TO 28. BENT 1 IS THE FIRST NORTH TO SOUTH RUNNING BENT WEST OF WEST STREET.
3. CONTRACTOR SHALL CONFIRM BENT NUMBERING SYSTEM WITH THE OWNER'S REPRESENTATIVE PRIOR TO ORDERING ANY MATERIALS OR COMMENCEMENT OF ANY WORK.
4. MUDLINE SHOWN IN SECTIONS REPRESENTS GENERAL CONDITIONS. SEE REPAIR SCHEDULE FOR MUDLINE TYPE AND REQUIRED REPAIR AT EACH PILE.
5. PILES SHOWN SOUTH OF BENTS 1 AND 2 ROW E ARE FOR REPRESENTATIVE PURPOSES ONLY. THESE PILES ARE NOT WITHIN THE SCOPE OF WORK.
6. CONTRACTOR TO OPERATE WITHIN STAGING LIMITS TO AVOID DISTURBING THE ADJACENT MOORING BUOY FIELD.

LEGEND:

- ⬆ BATTERED PILE
- 20" SQUARE CONCRETE PILE
- A REPAIR TYPE (SEE REPAIR SCHEDULE FOR REQUIRED LENGTHS).
- N/A – NOT ACCESSIBLE FOR INSPECTION




OWNER/ CLIENT

NEW YORK  
STATE OF  
OPPORTUNITY.

Battery Park  
City Authority

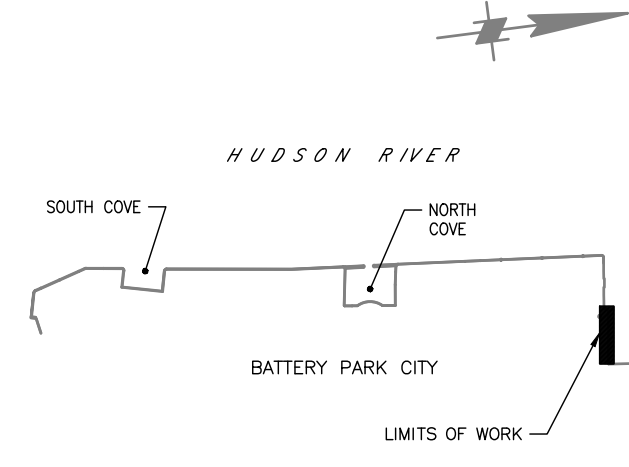
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NEW YORK, NY 10017  
(212) 768-7454

1	SEAWALL LENGTH ADJUSTMENT	DJ	2/26/19
NO.	REVISION	APPD	DATE

KEY PLAN



PROJECT

BATTERY PARK CITY AUTHORITY PHASE VI  
PILE REMEDIATION ESPLANADE PLAZA,  
ROCKEFELLER PARK ESPLANADE AND  
NORTH ESPLANADE

DRAWING TITLE

FACILITY PLAN - ELEVATIONS  
AND LOCATION KEY

DOB IDENTIFICATION NUMBER

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SEAL & SIGNATURE

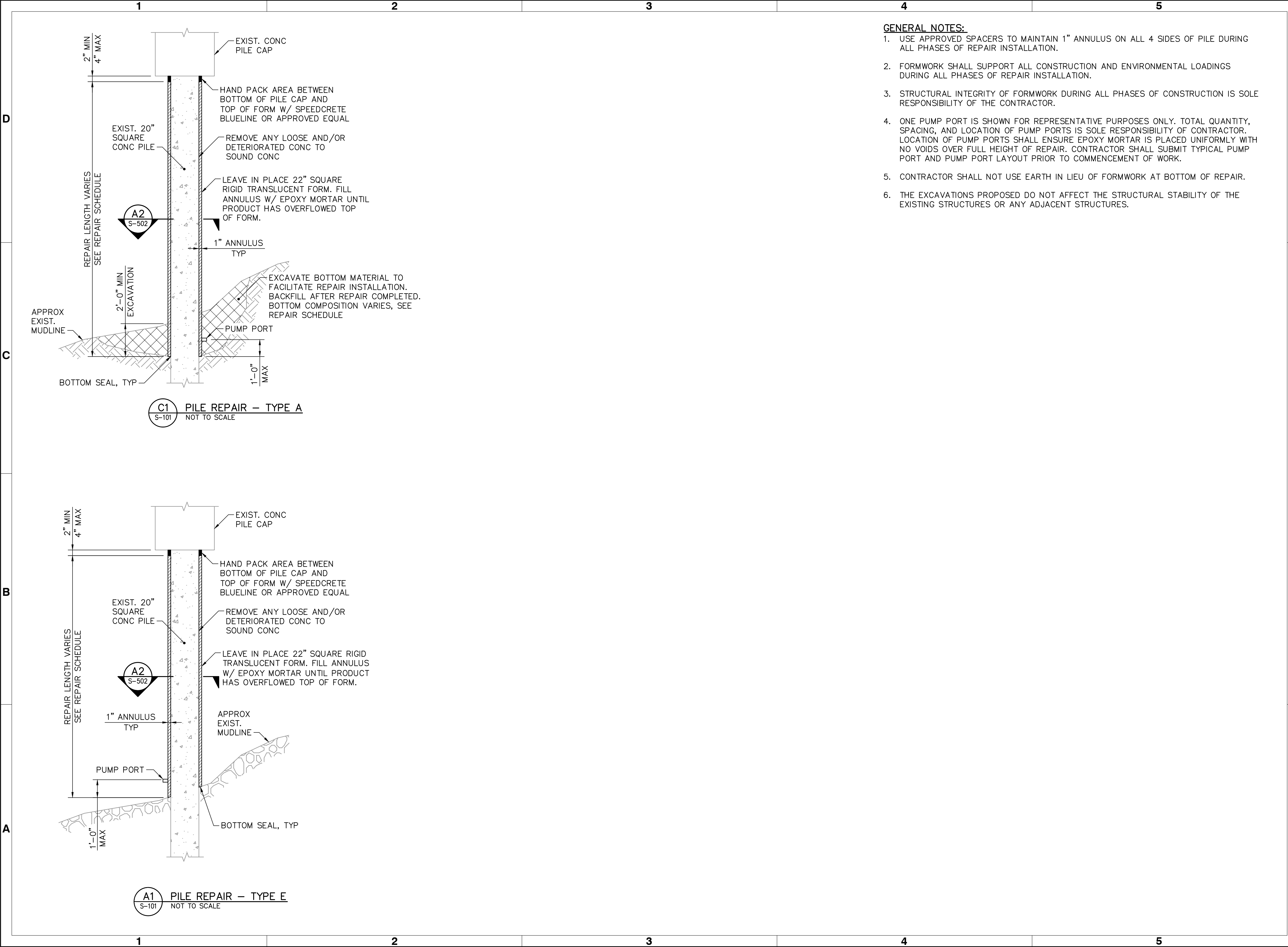
DATE: SEPTEMBER 2018  
PROJECT NO. 9328  
DRAWN BY BF  
CHECKED BY JS  
DRAWING NO. S-103

PE  
NYS LIC #  
BSCAN

SHEET NO. 7 of 14


DOB APPROVAL STAMP

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- GENERAL NOTES:**
1. USE APPROVED SPACERS TO MAINTAIN 1" ANNULUS ON ALL 4 SIDES OF PILE DURING ALL PHASES OF REPAIR INSTALLATION.
  2. FORMWORK SHALL SUPPORT ALL CONSTRUCTION AND ENVIRONMENTAL LOADINGS DURING ALL PHASES OF REPAIR INSTALLATION.
  3. STRUCTURAL INTEGRITY OF FORMWORK DURING ALL PHASES OF CONSTRUCTION IS SOLE RESPONSIBILITY OF THE CONTRACTOR.
  4. ONE PUMP PORT IS SHOWN FOR REPRESENTATIVE PURPOSES ONLY. TOTAL QUANTITY, SPACING, AND LOCATION OF PUMP PORTS IS SOLE RESPONSIBILITY OF CONTRACTOR. LOCATION OF PUMP PORTS SHALL ENSURE EPOXY MORTAR IS PLACED UNIFORMLY WITH NO VOIDS OVER FULL HEIGHT OF REPAIR. CONTRACTOR SHALL SUBMIT TYPICAL PUMP PORT AND PUMP PORT LAYOUT PRIOR TO COMMENCEMENT OF WORK.
  5. CONTRACTOR SHALL NOT USE EARTH IN LIEU OF FORMWORK AT BOTTOM OF REPAIR.
  6. THE EXCAVATIONS PROPOSED DO NOT AFFECT THE STRUCTURAL STABILITY OF THE EXISTING STRUCTURES OR ANY ADJACENT STRUCTURES.

OWNER/ CLIENT

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Battery Park  
City Authority

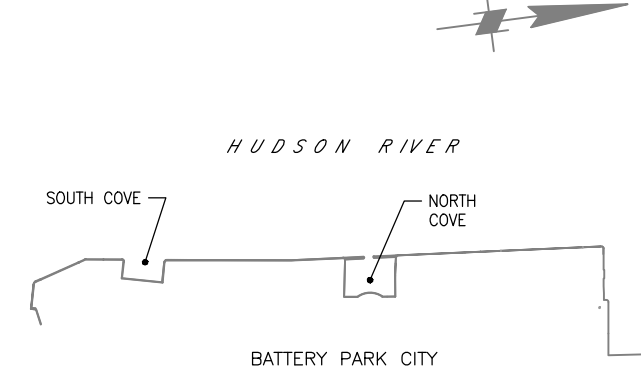
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NO.	REVISION	APPD	DATE

KEY PLAN



PROJECT

BATTERY PARK CITY AUTHORITY PHASE VI  
PILE REMEDIATION ESPLANADE PLAZA,  
ROCKEFELLER PARK ESPLANADE AND  
NORTH ESPLANADE

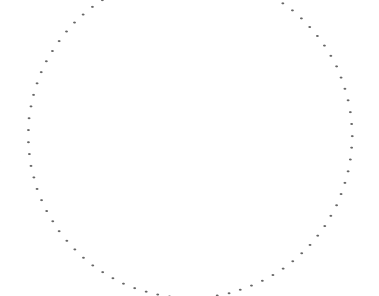
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REPAIR DETAILS

DOB IDENTIFICATION NUMBER

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SEAL & SIGNATURE



DATE: SEPTEMBER 2018

PROJECT NO. 9328

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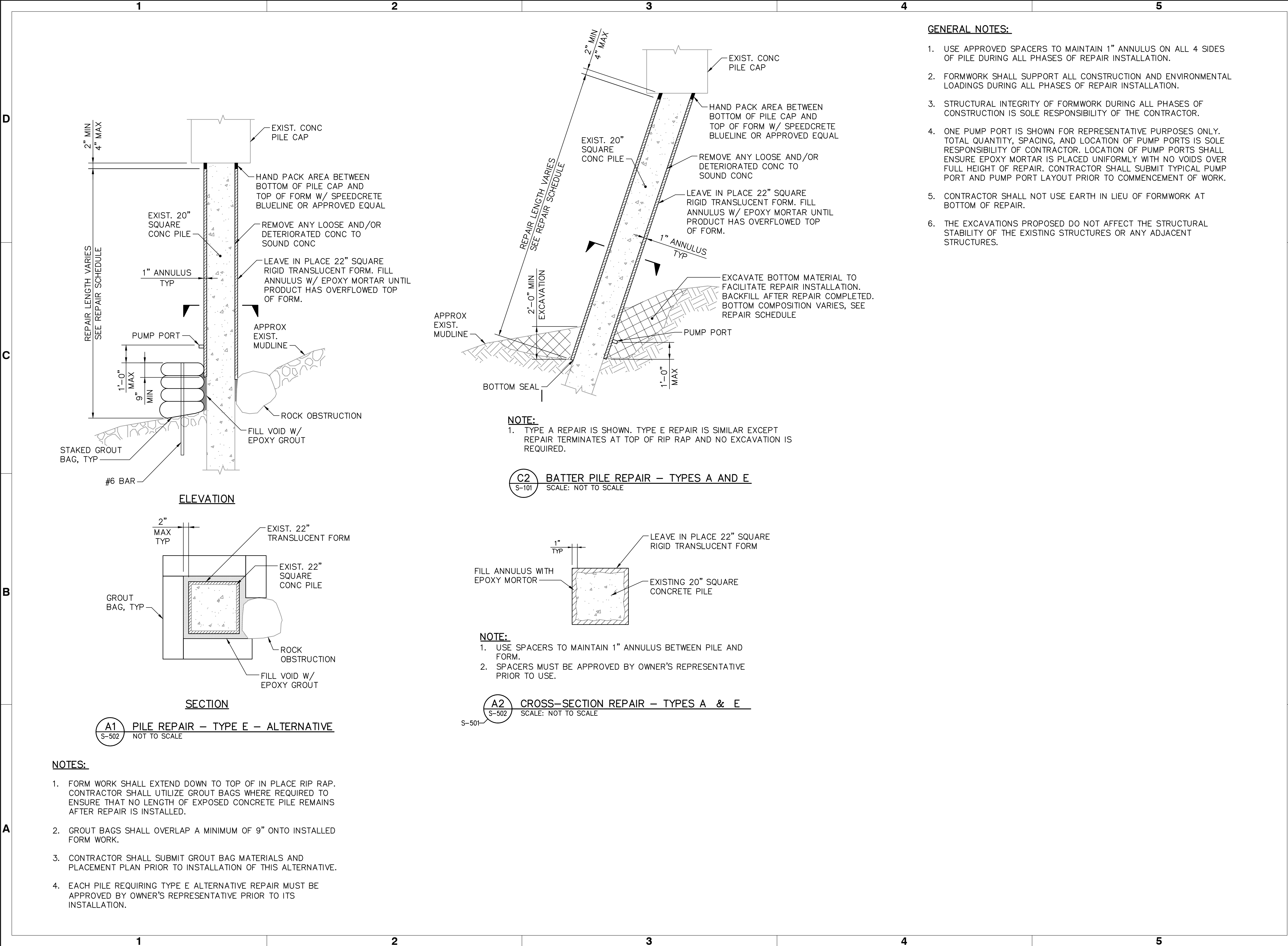
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PE  
NYS LIC #  
BSCAN

SHEET NO. 8 of 14

DOB APPROVAL STAMP





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City Authority**

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NO.	REVISION	APPD	DATE

KEY PLAN

HUDSON RIVER

SOUTH COVE

NORTH COVE

BATTERY PARK CITY

PROJECT

BATTERY PARK CITY AUTHORITY PHASE VI  
PILE REMEDIATION ESPLANADE PLAZA,  
ROCKEFELLER PARK ESPLANADE AND  
NORTH ESPLANADE

DRAWING TITLE

**REPAIR DETAILS**

DOB IDENTIFICATION NUMBER

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SEAL & SIGNATURE

DATE: SEPTEMBER 2018

PROJECT NO. 9328

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DRAWING NO. S-502

PE  
NYS LIC #  
BSCAN

SHEET NO. 9 of 14

DOB APPROVAL STAMP



D

C

B

A

1

2

3

4

5

ESPLANADE PLAZA					
BENT NO.	PILE NO.	REPAIR LENGTH (FT)	REPAIR TYPE	MUDLINE CONDITION (ROCK, COBBLE, SILT)	TYPICAL ROCK SIZE (IN. DIAM.)
13	A	37	A	SILT AND GRAVEL	
13	B	32	A	SILT, GRAVEL, AND COBBLES	3-6
13	C	27	A	SILT, GRAVEL, AND COBBLES	3-6
13	D	23	A	SILT, COBBLE, AND ROCK BELOW	3-10
13	E	19	A	SILT, AND COBBLES WITH ROCK BELOW	8-12
13	F	17	A	SILT, SAND, GRAVEL, COBBLE	6-8
13	G	7	E	GRAVEL AND COBBLES WITH ROCK UNDERNEATH	12-30
13	H	4	E	RIPRAP	12-36
13	HB	4	E	RIPRAP	10-36
14	A	39	A	SILT, SAND, GRAVEL AND COBBLES	3-6
14	B	37	A	SILT, SAND AND COBBLES	3-6
14	C	31	A	SILT, GRAVEL, AND COBBLES	3-6
14	D	27.5	A	SILT AND ROCK BELOW	3-20
14	E	22.5	A	SILT, AND COBBLES WITH ROCK BELOW	3-10
14	F	13	E	ROCK AND COBBLES WITH RIPRAP	10-28
14	G	6	E	ROCK AND COBBLES	10-30
14	H	4	E	RIPRAP	10-30
14	HB	4	E	RIPRAP	10-30
15	A	39	A	SILT, SAND, GRAVEL AND COBBLES	3-6
15	B	37	A	SILT, SAND AND COBBLES	3-6
15	C	27	A	SILT AND COBBLES	3-6
15	D	26	A	SILT, GRAVEL, AND COBBLE	3-6
15	E	18	A	SILT, GRAVEL AND COBBLES WITH ROCK BELOW	8-10
15	F	13	E	ROCK AND COBBLES WITH RIPRAP	32-48
15	G	7	E	ROCK AND COBBLES	6-30
15	H	4	E	RIPRAP	16-18
15	HB	4	E	RIPRAP	16-18
16	A	38	A	SILT, SAND, GRAVEL AND COBBLES	3-6
16	B	36	A	SILT, SAND AND COBBLES	3-6
16	C	31	A	SILT AND COBBLES WITH ROCK BELOW.	3-6
16	D	24	A	SILT, GRAVEL, AND COBBLE	3-6
16	E	17.5	A	SILT, GRAVEL AND COBBLES WITH ROCK BELOW	3-10
16	F	14	A	ROCK AND COBBLES WITH RIPRAP	3-10
16	G	9	A	ROCK AND COBBLES	3-10
16	H	4	E	RIPRAP	10-30
16	HB	4	E	RIPRAP	10-30
17	A	38	A	SILT, SAND AND COBBLES	3-6
17	B	36	A	SILT, SAND AND COBBLES	3-6

ESPLANADE PLAZA					
BENT NO.	PILE NO.	REPAIR LENGTH (FT)	REPAIR TYPE	MUDLINE CONDITION (ROCK, COBBLE, SILT)	TYPICAL ROCK SIZE (IN. DIAM.)
17	C	30	A	SILT AND COBBLES WITH ROCK BELOW.	3
17	D	24	A	SILT AND COBBLE	3-6
17	E	17	A	SILT AND COBBLES WITH ROCK BELOW	3-10
17	F	12	E	SAND WITH RIPRAP	10-30 ROCK
17	G	6	E	ROCK AND COBBLES	10-30
17	H	4	E	RIPRAP	10-30
17	HB	4	E	RIPRAP	10-30
18	A	38.5	A	SILT AND GRAVEL	
18	C	28.5	A	SILT	
18	D.7	18.5	A	SILT AND COBBLES W/ ROCK BELOW	
18	F.3	10.5	E	COBBLES & RIPRAP	8-12 W/ 24
18	H	6	A	COBBLES & RIPRAP	8-12 & OCCASIONAL 30
19	A	38.5	A	SILT AND GRAVEL	
19	C	28.5	A	SILT	
19	D.7	18.5	A	SILT AND COBBLES W/ ROCK BELOW	
19	F.3	12.5	A	COBBLES & RIPRAP	8-12 W/ 24
19	H	6	A	COBBLES & RIPRAP	8-12 & OCCASIONAL 30
19	HB	6	A	COBBLES & RIPRAP	8-12 & OCCASIONAL 30
20	A	37	A	SILT AND COBBLES	3-6
20	B	36	A	SILT AND COBBLES	3-6
20	C	30	A	SILT AND COBBLES WITH ROCK BELOW.	3
20	D	23	A	SILT WITH ROCK BELOW.	
20	E	18.5	A	SILT AND COBBLES WITH ROCK BELOW.	3-6
20	F	12	E	SAND WITH RIPRAP	18-30
20	G	8	A	ROCK AND COBBLES	6-10
20	H	4	E	RIPRAP	30
20	HB	4	E	RIPRAP	30
21	A	38	A	SILT AND COBBLES	6
21	B	36	A	SILT AND COBBLES	8
21	C	28.5	A	SILT W/ GRAVEL	
21	D	23	A	SILT WITH ROCK BELOW.	
21	E	19	A	SAND W/ GRAVEL, ROCK BELOW.	6
21	F	12	E	SAND WITH ROCK	28-40
21	G	8	E	RIPRAP	32-40
21	H	4	E	RIPRAP	18 W/ 30
21	HB	4	E	RIPRAP	18 W/ 30
22	A	37	A	SAND & GRAVEL	3
22	B	35	A	SAND & GRAVEL	3
22	C	30	A	SAND WITH ROCK	3
22	D	24	A	SILT WITH ROCK BELOW.	
22	E	18	A	SILT WITH ROCK BELOW.	6
22	F	12.5	E	SILT WITH ROCK	18
22	G	8	E	RIPRAP	46
22	H	4	E	RIPRAP	18 W/ 30

ESPLANADE PLAZA					
BENT NO.	PILE NO.	REPAIR LENGTH (FT)	REPAIR TYPE	MUDLINE CONDITION (ROCK, COBBLE, SILT)	TYPICAL ROCK SIZE (IN. DIAM.)
22	HB	4	E	RIPRAP	18 W/ 30
23	A	38.5	A	RIPRAP AND MUD	6-18
23	B	37	A	COBBLES AND SILT	3-6
23	C	32	A	COBBLES AND SILT	3-6
23	D	27	A	SAND AND GRAVEL	2
23	E	20	E	SILT AND COBBLES	18
23	F	16	E	SILT AND COBBLES & ROCK	18
23	G	10	E	RIPRAP	48
23	H	4	E	RIPRAP	18
23	HB	4	E	RIPRAP	18
24	A	41	A	COBBLES AND ROCK	3-12
24	B	36	A	COBBLES AND SILT	3-6
24	C	32	A	COBBLES AND SILT, ROCK BELOW	3-6
24	D	27	A	SILT, ROCK BELOW	
24	E	21	A	SAND AND GRAVEL	3-6
24	F	16	E	SILT AND COBBLES	18
24	G	10	E	ROCK/COBBLES AND ROCK	30-40
24	H	4	E	RIPRAP	10-24
24	HB	4	E	RIPRAP	10-24
25	A	39	A	COBBLES AND ROCK	3-12
25	B	39	A	COBBLES AND SILT	6-8
25	C	33	A	COBBLES AND SILT, ROCK BELOW	3-6
25	D	27	A	SILT, ROCK BELOW	12
25	E	21	A	SAND AND GRAVEL	10-20
25	F	14	E	SILT AND COBBLES	18
25	G	10	E	RIPRAP	30-40
25	H	4	E	RIPRAP	12-36
25	HB	4	E	RIPRAP	12-36
26	A	36	A	SILT, GRAVEL W/ ROCK BELOW	
26	B	35	A	SAND, SILT W/ ROCK BELOW	
26	C	28	A	SILT, GRAVEL W/ ROCK BELOW	
26	D	22	A	SILT W/ ROCK BELOW	
26	E	16	A	SILT & COBBLES W/ ROCK BELOW	6-10
26	F	13	A	SILT GRAVEL W/ ROCK BELOW	15
26	G	7	E	SILT, GRAVEL AND RIPRAP	18-42
26	H	4	E	SILT, GRAVEL AND RIPRAP	10-30
26	HB	4	E	SILT, GRAVEL AND RIPRAP	10-30
27	A	39	A	SAND AND GRAVEL W/ ROCK BELOW	
27	B.7	28	A	SILT	
27	D.3	19	A	SILT AND COBBLES	3-6
27	F	11	A	SILT AND COBBLES	3-6
27	H	5	E	SILT, GRAVEL AND RIPRAP	8-24
28	A	38.5	A	SAND AND GRAVEL W/ ROCK BELOW	3-6
28	B.7	28.5	A	SILT W/ ROCK BELOW	

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D

C

B

A

1

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5

ESPLANADE PLAZA					
BENT NO.	PILE NO.	REPAIR LENGTH (FT)	REPAIR TYPE	MUDLINE CONDITION (ROCK, COBBLE, SILT)	TYPICAL ROCK SIZE (IN. DIAM.)
28	D.3	20.5	A	SILT AND COBBLES & ROCK	
28	F	10.5	A	SILT AND COBBLES	3-6
28	H	5.5	E	SILT, GRAVEL AND RIPRAP	12-28
28	HB	5.5	E	SILT, GRAVEL AND RIPRAP	12-28
29	A	37	A	SAND AND GRAVEL W/ ROCK BELOW	0-3
29	B	34	A	SILT AND GRAVEL W/ ROCK BELOW	0-3
29	C	26	A	SILT W/ROCK BELOW	
29	D	22	A	SILT W/ROCK BELOW	
29	E	16	A	SILT OVER COBBLES	0-3
29	F	12	A	SILT OVER ROCK	
29	G	7	A	COBBLES & RIPRAP	6-10
29	H	4	E	RIPRAP	20-24
29	HB	4	E	RIPRAP	20-24
30	A	37	A	SILT W/ ROCK BELOW	
30	B	34	A	SILT W/ ROCK BELOW	
30	C	28	A	SILT	
30	D	22	A	SILT W/ROCK BELOW	
30	E	16	A	SILT OVER ROCK	0-3
30	F	13	A	SILT & COBBLES OVER ROCK	
30	G	7	A	SILT & COBBLES & RIPRAP	6-10
30	H	4	E	RIPRAP	20-24
30	HB	4	E	RIPRAP	20-24
31	A	39	A	SILT W/ ROCK BELOW	0-1
31	B	37	A	SILT W/ ROCK BELOW	
31	C	29	A	SILT W/ ROCK BELOW	
31	D	24	A	SILT W/ ROCK BELOW	
31	E	19	A	SILT W/ ROCK BELOW	
31	F	14	A	SILT & COBBLES W/ RIPRAP	6-12
31	G	7	E	COBBLES W/ RIPRAP	6-10/50
31	H	6	A	COBBLES W/ RIPRAP	6-10/20
31	HB	6	A	COBBLES W/ RIPRAP	6-10/20
32	A	39	A	SILT & COBBLES	0-6
32	B	37	A	SILT & COBBLES	0-6
32	C	30	A	SILT & GRAVEL W/ ROCK BELOW	
32	D	25	A	SILT W/ ROCK BELOW	
32	E	19	A	SILT W/ ROCK BELOW	
32	F	13	E	SILT & COBBLES	2-36
32	G	8	E	COBBLE W/ RIPRAP	6-10/36
32	H	4	E	COBBLES W/ RIPRAP	6-10/24
32	HB	4	E	COBBLES W/ RIPRAP	6-10/24
33	A	38	A	SILT & COBBLES	3-6
33	B	35	A	SILT & COBBLES	0-3
33	C	30	A	SILT W/ ROCK BELOW	
33	D	24	A	SILT W/ ROCK BELOW	
33	E	19	A	SILT W/ ROCK BELOW	
33	F	14	A	SILT W/ RIPRAP	0/12-20
33	G	8	E	COBBLE W/ RIPRAP	6-10/20-24
33	H	6	A	COBBLES W/ RIPRAP	6-10/20

ESPLANADE PLAZA					
BENT NO.	PILE NO.	REPAIR LENGTH (FT)	REPAIR TYPE	MUDLINE CONDITION (ROCK, COBBLE, SILT)	TYPICAL ROCK SIZE (IN. DIAM.)
33	HB	6	A	COBBLES W/ RIPRAP	6-10/20
34	A	37	A	SILT & COBBLES	0-3
34	B	34	A	SILT & COBBLES	0-3
34	C	30	A	SILT W/ ROCK BELOW	
34	D	23	A	SILT W/ ROCK BELOW	
34	E	18	A	SILT W/ ROCK BELOW	
34	F	12	E	SILT W/ RIPRAP	2-36
34	G	8	E	COBBLE W/ RIPRAP	6-10/24-30
34	H	6	A	COBBLES W/ RIPRAP	6-10/18
34	HB	6	A	COBBLES W/ RIPRAP	6-10/18
35	A	39	A	SILT & COBBLES	0-3
35	B	35	A	SILT & COBBLES	0-3
35	C	30	A	SILT W/ ROCK BELOW	
35	D	23	A	SILT W/ ROCK BELOW	
35	E	18	A	SILT W/ ROCK BELOW	
35	F	14	A	SILT & COBBLES W/ RIPRAP	3-6/20
35	G	7	E	COBBLE W/ RIPRAP	6-10/24
35	H	4	E	COBBLES W/ RIPRAP	6-10/20-30
35	HB	4	E	COBBLES W/ RIPRAP	6-10/20-30
36	A	38	A	SAND, SILT W/ ROCK BELOW	
36	B.7	29	A	SILT	
36	D.3	20	A	SILT W/ ROCK BELOW	
36	F	11	E	SILT W/ RIPRAP	20-30
36	H	4	E	RIPRAP	20-30
37	A	39	A	SAND, SILT W/ ROCK BELOW	
37	B.7	30	A	SILT	
37	D.3	21	A	SILT W/ ROCK BELOW	
37	F	12	E	SILT W/ RIPRAP	20-40
37	H	4	E	RIPRAP	20-30
37	HB	4	E	RIPRAP	20-30
38	A	41	A	SILT & COBBLES W/ CONC CHUNKS W/ ROCK BELOW	0-2
38	B	37	A	SILT W/ ROCK BELOW	
38	C	30	A	SILT W/ ROCK BELOW	
38	D	23	A	SILT W/ ROCK BELOW	
38	E	19	A	SILT W/ ROCK BELOW	
38	F	12	E	SILT & COBBLES W/ RIPRAP	3-6/36
38	G	7	E	COBBLE W/ RIPRAP	3-6/24-30
38	H	5	E	RIPRAP	20-30
38	HB	5	E	RIPRAP	20-30
39	A	38	A	SILT W/ ROCK BELOW	
39	B	36	A	SILT W/ ROCK BELOW	
39	C	29	A	SILT W/ ROCK BELOW	
39	D	22	A	SILT W/ ROCK BELOW	
39	E	16	A	SILT W/ ROCK BELOW	
39	F	10	E	SILT W/ ROCK BELOW	20
39	G	6	E	COBBLE W/ ROCK	36
39	H	5	E	ROCK	40
39	HB	5	E	ROCK	40
40	A	37	A	SILT & COBBLES W/ ROCK BELOW	1-3

ESPLANADE PLAZA					
BENT NO.	PILE NO.	REPAIR LENGTH (FT)	REPAIR TYPE	MUDLINE CONDITION (ROCK, COBBLE, SILT)	TYPICAL ROCK SIZE (IN. DIAM.)
40	B	33	A	SILT W/ ROCK BELOW	
40	C	29	A	SILT W/ ROCK BELOW	
40	D	22	A	SILT W/ ROCK BELOW	
40	E	15	A	SILT W/ ROCK BELOW	
40	F	11	E	SILT/SAND (FACE 1)-RIP RAP (FACE 4)	20
40	G	8	E	ROCK	40
40	H	5	E	ROCK	20-30
40	HB	5	E	ROCK	20-30
41	A	37.5	A	SILT & COBBLES W/ ROCK BELOW	0-3/12-18
41	B	34.5	A	SILT & COBBLES	3
41	C	28.5	A	SILT & COBBLES W/ ROCK BELOW	3
41	D	23.5	A	SILT & COBBLES W/ ROCK BELOW	3
41	E	18.5	A	SILT & COBBLES W/ ROCK BELOW	3
41	F	11.5	E	SAND, SILT & COBBLES W/ RIPRAP	3-12/30
41	G	6.5	E	COBBLES AND RIPRAP	6-10/20 TO 24
41	H	4.5	E	COBBLES AND RIPRAP	6-10/20 TO 24
41	HB	4.5	E	COBBLES AND RIPRAP	6-10/20 TO 24
42	A	39	A	SILT & GRAVEL W/ ROCK BELOW	
42	B	37	A	SILT W/ ROCK BELOW	
42	C	30	A	SILT W/ ROCK BELOW	
42	D	25	A	SILT W/ ROCK BELOW	
42	E	19	A	SILT W/ ROCK BELOW	
42	F	15	A	SILT & GRAVEL W/ ROCK BELOW	10-12
42	G	8	E	COBBLES AND RIPRAP	3-6/36
42	H	4	E	COBBLES AND RIPRAP	6-10/20 TO 24
42	HB	4	E	COBBLES AND RIPRAP	6-10/20 TO 24
43	A	39	A	SILT W/ ROCK BELOW	
43	B	38	A	SILT W/ ROCK BELOW	
43	C	31	A	SILT W/ ROCK BELOW	
43	D	25	A	SILT W/ ROCK BELOW	
43	E	19	A	SILT W/ ROCK BELOW	3
43	F	15	A	SILT W/ ROCK BELOW	3
43	G	7	E	RIPRAP	12-24/30
43	H	4	E	COBBLES AND RIPRAP	6-10/24
43	HB	4	E	COBBLES AND RIPRAP	6-10/24

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D

C

B

A



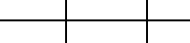
ROCKEFELLER PARK ESPLANADE					
BENT NO.	PILE NO.	REPAIR LENGTH (FT)	REPAIR TYPE	MUDLINE CONDITION (ROCK, COBBLE, SILT)	TYPICAL ROCK SIZE (IN. DIAM.)
93	A	32	A	GRAVEL	
93	B	31	A	MUD	
93	C	25	A	MUD	
93	D	20	A	MUD	
93	E	16	A	COBBLE	3–6
93	F	12	A	ROCK	12–18
93	G	5	E	ROCK	12–20
93	H	3	E	ROCK	12–24
93	HB	3	E	ROCK	12–24
94	A	33	A	MUD	
94	B	32	A	MUD	
94	C	25	A	MUD	
94	D	20	A	GRAVEL/MUD	
94	E	15	A	COBBLE/MUD	3–6
94	F	11	A	ROCK	12–18
94	G	5	E	ROCK	24
94	H	5	A	ROCK	6–12
94	HB	5	A	ROCK	6–12
95	A	32	A	SILTY GRAVEL	
95	B	31	A	MUD	
95	C	24	A	MUD	
95	D	19	A	GRAVEL/MUD	
95	E	15	A	COBBLE	3–6
95	F	11	A	COBBLE	3–6
95	G	7	A	ROCK	18
95	H	5	A	ROCK	6–18
95	HB	5	A	ROCK	6–18
96	A	32	A	MUD	
96	B	31	A	MUD	
96	C	25	A	MUD	
96	D	19	A	MUD	
96	E	15	A	COBBLE/GRAVEL	6
96	F	11	A	COBBLE/ROCK	6–8
96	G	7	A	ROCK/COBBLE	6–18
96	H	5	A	ROCK	6–18
96	HB	5	A	ROCK	6–18
97	A	32	A	SILTY MUD	
97	B	31	A	SILTY MUD	
97	C	25	A	SILTY MUD	
97	D	20	A	SILTY MUD	
97	E	15	A	F1/ SILTY MUD F3/COBBLE	3–6
97	F	11	A	COBBLE/ROCK	6–8
97	G	5	E	ROCK	12–30
97	H	5	A	ROCK	6–18
97	HB	5	A	ROCK	6–18
98	A	34	A	MUD	
98	A.9	32	A	MUD	
98	B	32	A	MUD	
98	C	15	A	MUD	
98	D	25	A	MUD/SILT	
98	E	16	A	MUD/COBBLE	6–8
98	F	12	A	COBBLE/ROCK	6–8

ROCKEFELLER PARK ESPLANADE					
BENT NO.	PILE NO.	REPAIR LENGTH (FT)	REPAIR TYPE	MUDLINE CONDITION (ROCK, COBBLE, SILT)	TYPICAL ROCK SIZE (IN. DIAM.)
98	G	5	E	ROCK	12–30
98	H	5	A	ROCK	6–18
98	HB	5	A	ROCK	6–18
99	A	34	A	GRAVEL/ MUD	1–3
99	B	32	A	MUD	
99	C	25	A	MUD	
99	D	20	A	MUD	
99	E	16	A	MUD/COBBLE	1–3
99	F	12	A	COBBLE	1–6
99	G	4	E	ROCK	12–30
99	H	3	E	ROCK	24–30
99	HB	3	E	ROCK	24–30
100	A	34	A	MUD	
100	C	24	A	MUD	
100	D.7	16	A	MUD	
100	F.3	9	A	ROCK	6–18
100	H	3	E	ROCK	24–30
101	A	34	A	MUD	
101	C	24	A	MUD	
101	D.7	16	A	MUD	
101	F.3	9	A	ROCK	6–18
101	H	3	E	ROCK	24–30
101	HB	3	E	ROCK	24–30
102	A	34	A	SAND/GRAVEL	
102	B	22	A	MUD	
102	C	25	A	MUD	
102	D	20	A	MUD	
102	E	16	A	MUD	
102	F	13	A	MUD/SHELL	
102	G	6	E	COBBLE/ROCK	12–48
102	H	6	A	ROCK	12–18
102	HB	7	A	ROCK	12–18
103	A	34	A	MUD	
103	B	32	A	MUD	
103	C	26	A	MUD	
103	D	20	A	MUD	
103	E	16	A	MUD	
103	F	12	A	COBBLE	6–8
103	G	6	E	ROCK	24
103	H	5	E	ROCK	12–24
103	HB	5	E	ROCK	12–24
104	A	34	A	MUD	
104	B	33	A	MUD	
104	C	26	A	MUD	
104	D	20	A	MUD	
104	E	16	A	MUD/COBBLE	
104	F	11	A	COBBLE/RCCK	3–12
104	G	6	E	RIP RAP	3–6, UP TO 48
104	H	5	E	ROCK	24–36
104	HB	5	E	ROCK	24–36
105	A	34	A	MUD	
105	B	32	A	MUD	
105	C	26	A	MUD	

ROCKEFELLER PARK ESPLANADE					
BENT NO.	PILE NO.	REPAIR LENGTH (FT)	REPAIR TYPE	MUDLINE CONDITION (ROCK, COBBLE, SILT)	TYPICAL ROCK SIZE (IN. DIAM.)
105	D	20	A	MUD	
105	E	16	A	MUD	
105	F	12	A	COBBLE	6–8
105	G	7	E	ROCK	40–60
105	H	7	A	COBBLE	3–6
105	HB	7	A	COBBLE	3–6
106	A	32	A	MUD	
106	B	28	A	MUD	
106	C	24	A	MUD	
106	D	18	A	MUD	
106	E	15	A	MUD	
106	F	9	A	MUD/GRAVEL	
106	G	4	E	RIPRAP	42
106	H	6	A	COBBLES	6
106	HB	6	A	COBBLES	6
107	A	34	A	MUD	
107	B	32	A	MUD	
107	C	25	A	MUD	
107	D	19	A	MUD	
107	E	15	A	MUD & GRAVEL/MUD	
107	F	11	A	COBBLES	6
107	G	4	E	RIPRAP	40
107	H	7	A	COBBLES	6
107	HB	7	A	COBBLES	6
108	A	34	A	MUD	
108	B	30	A	MUD	
108	C	25	A	MUD	
108	D	19	A	MUD	
108	E	15	A	MUD	
108	F	11	A	MUD/COBBLES	2–7
108	G	5	E	COBBLES & ROCK	32
108	H	7	A	COBBLES WITH ROCKS	20
108	HB	7	A	COBBLES WITH ROCKS	15
109	A	33	A	MUD	
109	C	22	A	MUD	
109	D.7	15	A	MUD	
109	F.3	11	A	COBBLES/MUD	4–6
109	H	5	E	COBBLES WITH ROCKS	40
110	A	33	A	MUD	
110	C	23	A	MUD	
110	D.7	15	A	MUD	
110	F.3	11	A	COBBLES/MUD	4–10
110	H	6	E	COBBLES WITH ROCKS	20
110	HB	6	E	COBBLES WITH ROCKS	30
111	A	32	A	MUD	
111	B	30	A	MUD	
111	C	24	A	MUD	





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 <div style="display: inline-block; vertical-align: middle; margin-left: 10px;"> <p><b>NEW YORK</b> STATE OF OPPORTUNITY.</p> </div> <div style="display: inline-block; vertical-align: middle; margin-left: 20px;"> <h2>Battery Park City Authority</h2> </div>																	
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NO.                      REVISION                      APP'D                      DATE																	
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  <i>HUDSON RIVER</i>  <div style="display: flex; justify-content: space-around; align-items: center;"> <span>SOUTH COVE →</span> <span>← NORTH COVE</span> </div> BATTERY PARK CITY																	
PROJECT																	
BATTERY PARK CITY AUTHORITY PHASE VI PILE REMEDIATION ESPLANADE PLAZA, ROCKEFELLER PARK ESPLANADE AND NORTH ESPLANADE																	
DRAWING TITLE																	
<h2>PILE REPAIR SCHEDULE - SHEET 5 OF 5</h2>																	
DOB IDENTIFICATION NUMBER																	
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SEAL & SIGNATURE  <div style="border: 1px dotted black; width: 150px; height: 150px; margin: 10px auto;"></div> PE NYS LIC # BSCAN			<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 2px;">DATE:</td> <td style="padding: 2px;">SEPTEMBER 2018</td> </tr> <tr> <td style="padding: 2px;">PROJECT NO.</td> <td style="padding: 2px;">9328</td> </tr> <tr> <td style="padding: 2px;">DRAWN BY</td> <td style="padding: 2px;">BF</td> </tr> <tr> <td style="padding: 2px;">CHECKED BY</td> <td style="padding: 2px;">JS</td> </tr> <tr> <td style="padding: 2px;">DRAWING NO.</td> <td style="padding: 2px;"><b>S-605</b></td> </tr> <tr> <td style="padding: 2px;">SHEET NO.</td> <td style="padding: 2px;">14 of 14</td> </tr> </table>			DATE:	SEPTEMBER 2018	PROJECT NO.	9328	DRAWN BY	BF	CHECKED BY	JS	DRAWING NO.	<b>S-605</b>	SHEET NO.	14 of 14
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