

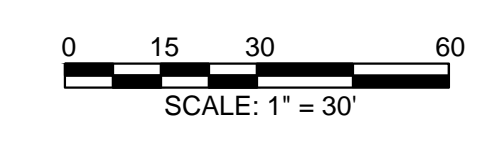
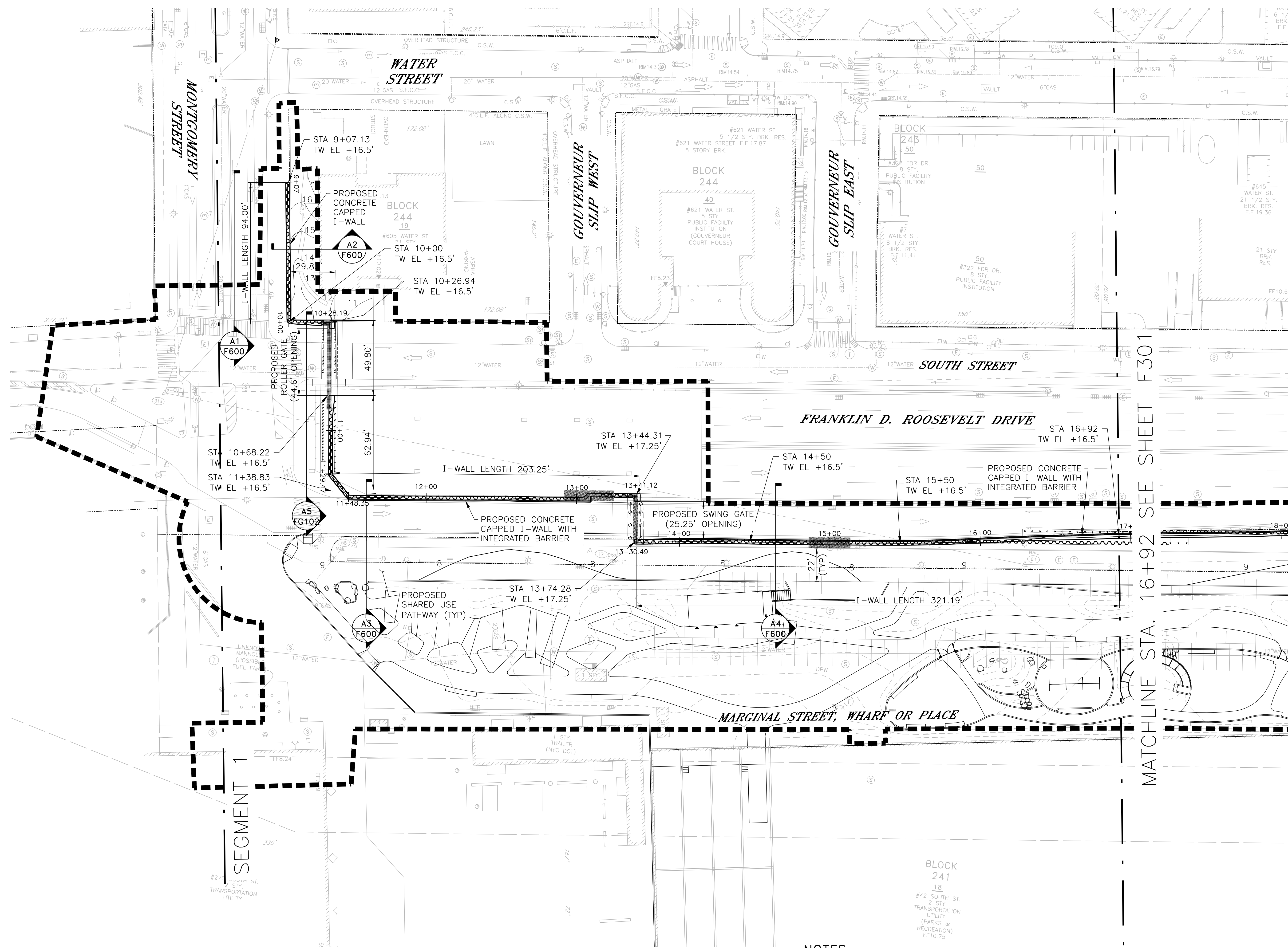
**Appendix C1d**  
**Preferred Alternative – Floodwalls and Structural**  
**Plans**

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|-----------|-----------------------|--|
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| F301      | SANDRESM1-F301-00.DWG | FLOODWALL STRUCTURAL PLAN SEGMENT 1 - REACH B STA. 16+92 - 23+83   |
| F302      | SANDRESM1-F302-00.DWG | FLOODWALL STRUCTURAL PLAN SEGMENT 1 - REACH C STA. 23+83 - 30+45   |
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REVISED MASS MAILING # 1 SUBMISSION 7/18/2019



**LEGEND:**  
 - - - - - LIMITS OF WORK  
 [Hatched Box] PROPOSED JET GROUTING ZONE

- NOTES:**
1. ALL ITEMS CALLED OUT AS EXISTING ARE TO REMAIN UNLESS NOTED OTHERWISE.
  2. REFER TO SHEETS PW300-PW315 FOR SHARED USE PATH PLAN.
  3. REFER TO SHEETS LG300-LG315 FOR SITE AND GRADING PLAN.
  4. REFER TO SHEETS LL300-LL315 FOR LAYOUT PLAN.
  5. REFER TO SHEETS LM300-LM315 FOR MATERIALS PLAN.
  6. REFER TO SHEETS LP300-LP315 FOR PLANTING PLAN.
  7. REFER TO SHEETS LS300-LS315 FOR SOILS PLAN.
  8. REFER TO SHEETS E300-E302 FOR ELECTRICAL PLAN.
  9. REFER TO SHEETS P300-P313 FOR PLUMBING PLAN.

**PRELIMINARY**  
 SUBMITTED DATE: 7/18/2019

TOPOGRAPHIC SURVEY PREPARED BY: FOR SURVEYOR  
 INFORMATION SEE SURVEY SET S0100 DRAWINGS SERIES

FINAL DESIGN SUBMITTED BY:  
**AKRF KSE**  
 The AKRF-KSE JV

FINAL DESIGN PREPARED BY:  
**ch2m**  
 CH2M HILL NEW YORK, INC.  
 NAME OF CONSULTANT

SIGNATURE \_\_\_\_\_  
 DATE \_\_\_\_\_

CITY OF NEW YORK  
 DEPARTMENT OF DESIGN + CONSTRUCTION  
 DIVISION OF INFRASTRUCTURE  
 BUREAU OF DESIGN

FLOODWALL STRUCTURAL PLAN  
 SEGMENT 1 - REACH A  
 STA. 9+07 - 16+92  
 CH2M DRAWN BY \_\_\_\_\_  
 SANDRESM1-F300-00.DWG  
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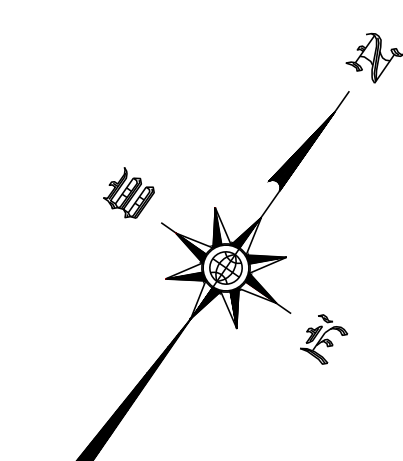
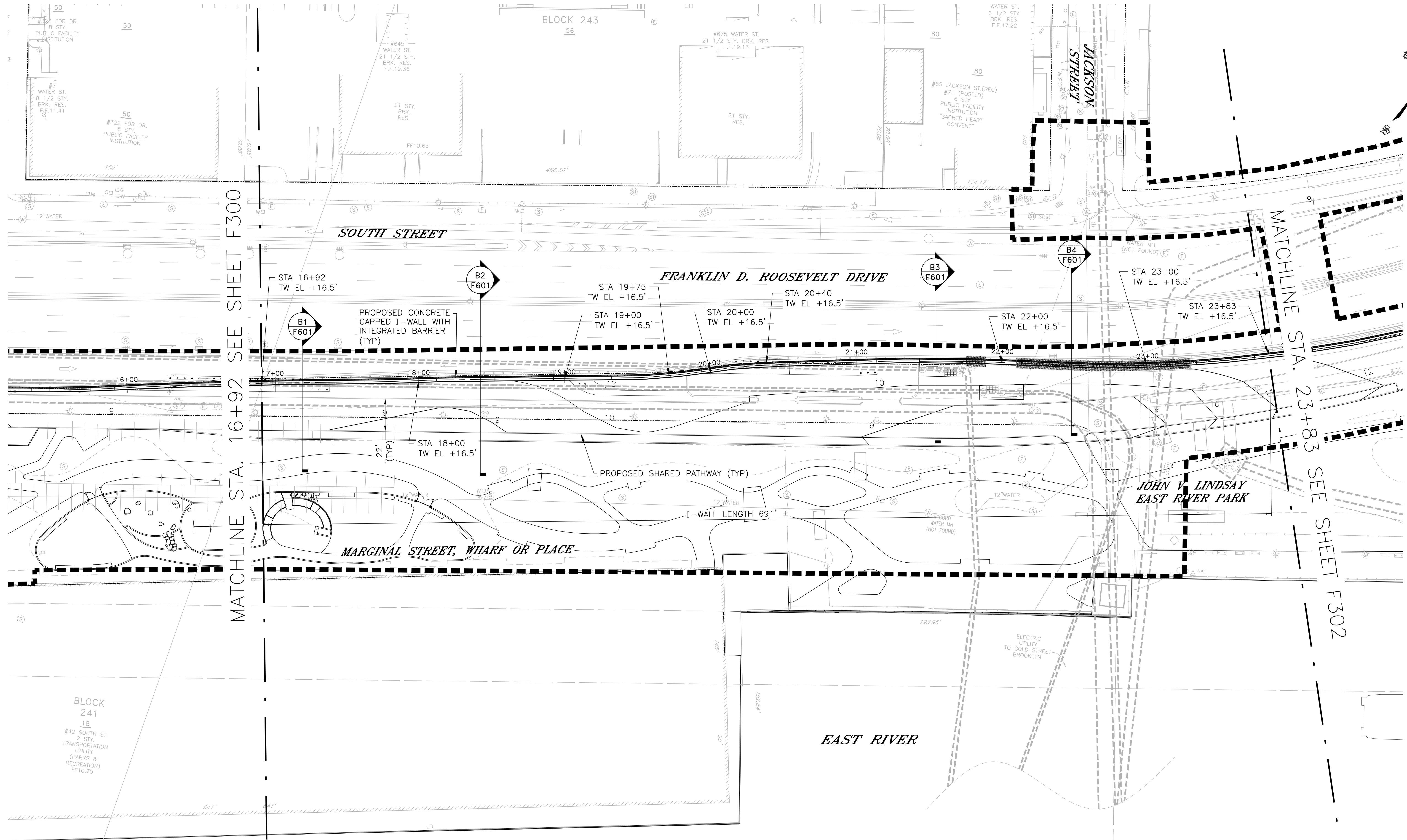
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|     |      |              |    |        |

INSTALLATION OF  
 EAST SIDE COASTAL RESILIENCY  
 BOROUGH OF MANHATTAN

CAPITAL PROJECT NO. SANDRESM1 7/18/2019 SHEET 345 OF 1594 F300



REVISED MASS MAILING #1 SUBMISSION 7/18/2019



MATCHLINE STA. 16+92 SEE SHEET F300

MATCHLINE STA. 23+83 SEE SHEET F302

**LEGEND:**

- LIMITS OF WORK
- PROPOSED JET GROUTING ZONE

**NOTES:**

1. ALL ITEMS CALLED OUT AS EXISTING ARE TO REMAIN UNLESS NOTED OTHERWISE.
2. REFER TO SHEETS PW300-PW315 FOR SHARED USE PATH PLAN.
3. REFER TO SHEETS LG300-LG315 FOR SITE AND GRADING PLAN.
4. REFER TO SHEETS LL300-LL315 FOR LAYOUT PLAN.
5. REFER TO SHEETS LM300-LM315 FOR MATERIALS PLAN.
6. REFER TO SHEETS LP300-LP315 FOR PLANTING PLAN.
7. REFER TO SHEETS LS300-LS315 FOR SOILS PLAN.
8. REFER TO SHEETS E300-E302 FOR ELECTRICAL PLAN.
9. REFER TO SHEETS P300-P313 FOR PLUMBING PLAN.

0 15 30 60  
SCALE: 1" = 30'

**PRELIMINARY**

SUBMITTED DATE: 7/18/2019

TOPOGRAPHIC SURVEY PREPARED BY: FOR SURVEYOR  
INFORMATION SEE SURVEY SET SU100 DRAWINGS SERIES

FINAL DESIGN SUBMITTED BY:



FINAL DESIGN PREPARED BY:



SIGNATURE \_\_\_\_\_  
DATE \_\_\_\_\_

CITY OF NEW YORK  
DEPARTMENT OF DESIGN + CONSTRUCTION  
DIVISION OF INFRASTRUCTURE  
BUREAU OF DESIGN

FLOODWALL STRUCTURAL PLAN  
SEGMENT 1 - REACH B  
STA. 16+92 - 23+83

CH2M DRAWN BY \_\_\_\_\_ SANDRESM1-F301-00.DWG  
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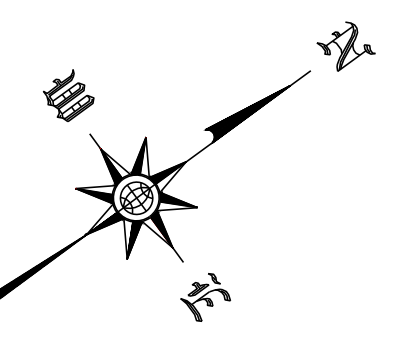
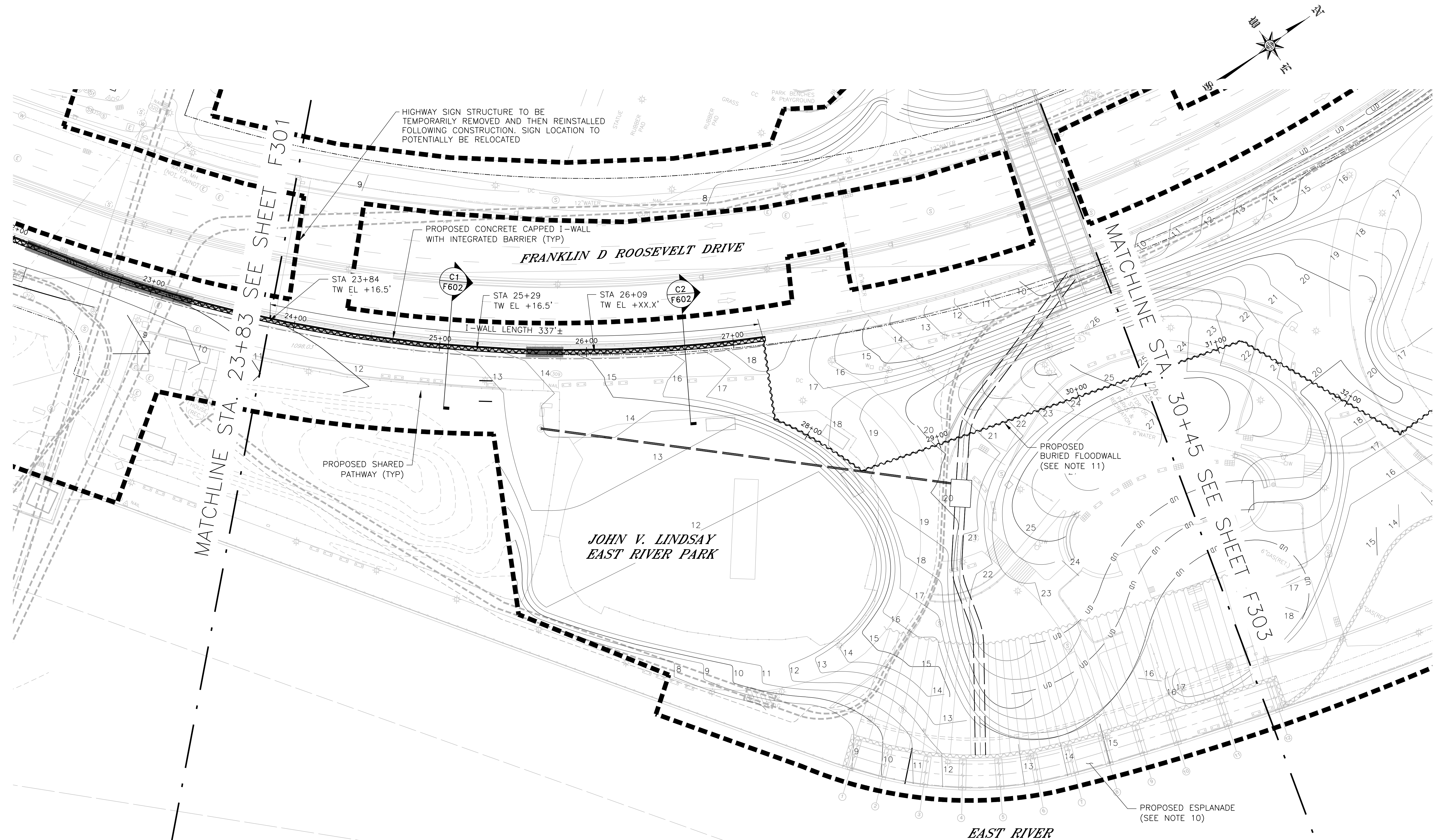
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INSTALLATION OF  
EAST SIDE COASTAL RESILIENCY  
BOROUGH OF MANHATTAN

CAPITAL PROJECT NO. SANDRESM1 7/18/2019 SHEET 346 OF 1594 F301



REVISED MASS MAILING # 1 SUBMISSION 7/18/2019

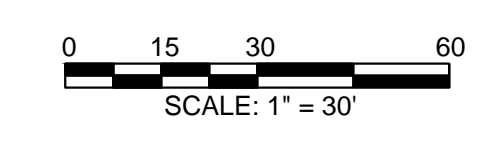


MATCHLINE STA. 23+83 SEE SHEET F301

MATCHLINE STA. 30+45 SEE SHEET F303

**LEGEND:**  
 --- LIMITS OF WORK  
 [Hatched Box] PROPOSED JET GROUTING ZONE

- NOTES:**
1. ALL ITEMS CALLED OUT AS EXISTING ARE TO REMAIN UNLESS NOTED OTHERWISE.
  2. REFER TO SHEETS PW300-PW315 FOR SHARED USE PATH PLAN.
  3. REFER TO SHEETS LG300-LG315 FOR SITE AND GRADING PLAN.
  4. REFER TO SHEETS LL300-LL315 FOR LAYOUT PLAN.
  5. REFER TO SHEETS LM300-LM315 FOR MATERIALS PLAN.
  6. REFER TO SHEETS LP300-LP315 FOR PLANTING PLAN.
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  8. REFER TO SHEETS E300-E302 FOR ELECTRICAL PLAN.
  9. REFER TO SHEETS P300-P313 FOR PLUMBING PLAN.
  10. REFER TO SHEETS F500-F507 FOR ESPLANADE STRUCTURAL PLAN.
  11. REFER TO SHEET F603 FOR TYPICAL FLOODWALL SECTION AND SCHEDULE.



**PRELIMINARY**  
 SUBMITTED DATE: 7/18/2019

TOPOGRAPHIC SURVEY PREPARED BY: FOR SURVEYOR INFORMATION SEE SURVEY SET SU100 DRAWINGS SERIES

FINAL DESIGN SUBMITTED BY: **AKRF KSE**  
 The AKRF-KSE JV

FINAL DESIGN PREPARED BY: **ch2m**  
 CH2M HILL NEW YORK, INC.  
 NAME OF CONSULTANT

SIGNATURE \_\_\_\_\_  
 DATE \_\_\_\_\_

CITY OF NEW YORK  
 DEPARTMENT OF DESIGN + CONSTRUCTION  
 DIVISION OF INFRASTRUCTURE  
 BUREAU OF DESIGN

FLOODWALL STRUCTURAL PLAN  
 SEGMENT 1 - REACH C  
 STA. 23+83 - 30+45

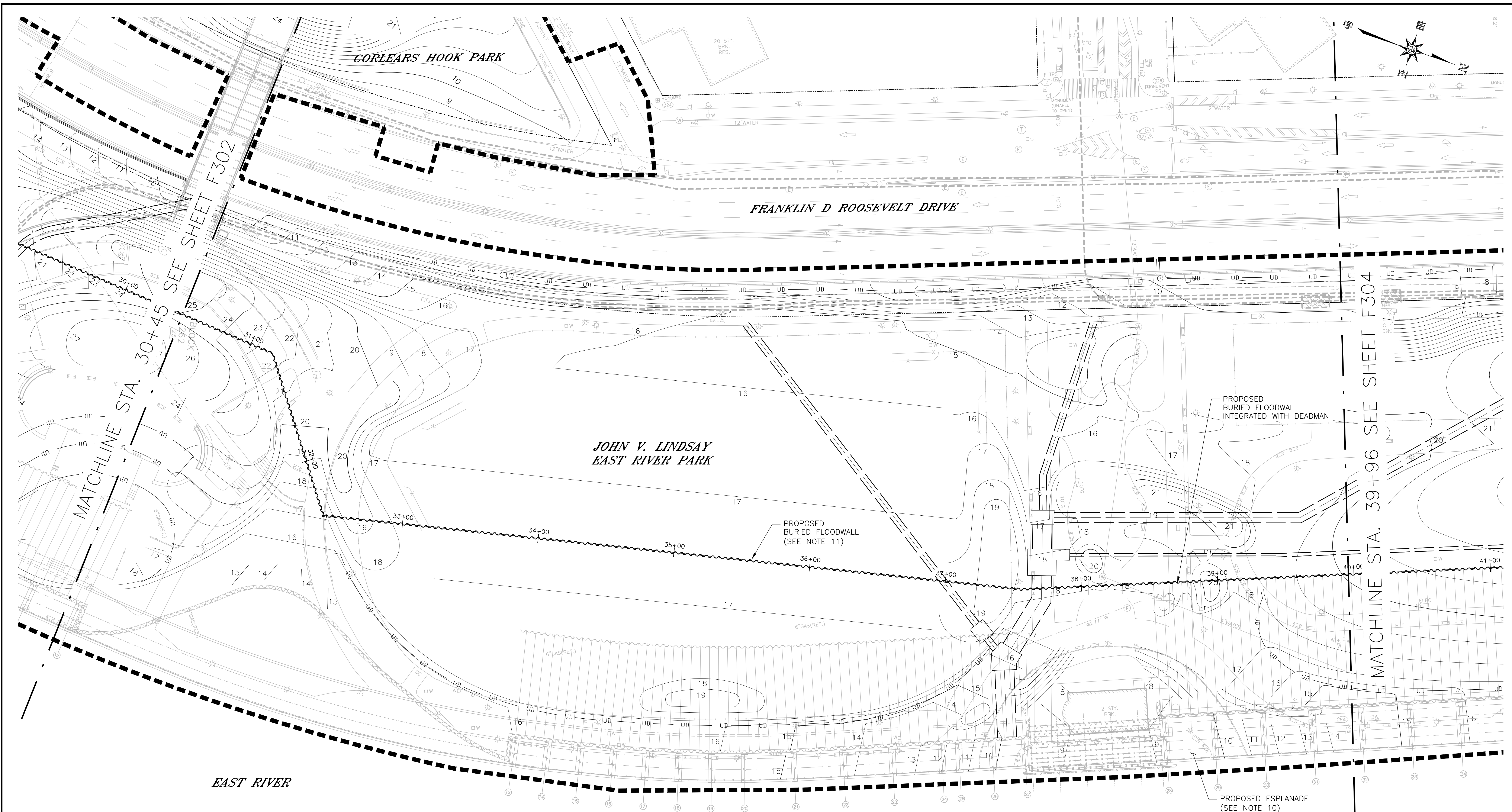
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| NO. | DATE | DESCRIPTIONS<br>REVISIONS | BY | APPR'D |
|-----|------|---------------------------|----|--------|
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CAPITAL PROJECT NO. SANDRESM1 7/18/2019 SHEET 347 OF 1594 F302



REVISED MASS MAILING #1 SUBMISSION 7/18/2019

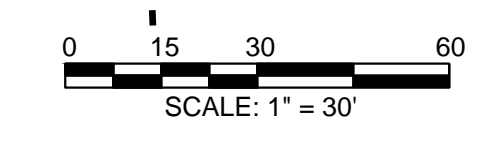


**NOTES:**

1. ALL ITEMS CALLED OUT AS EXISTING ARE TO REMAIN UNLESS NOTED OTHERWISE.
2. REFER TO SHEETS PW300-PW315 FOR SHARED USE PATH PLAN.
3. REFER TO SHEETS LG300-LG315 FOR SITE AND GRADING PLAN.
4. REFER TO SHEETS LL300-LL315 FOR LAYOUT PLAN.
5. REFER TO SHEETS LM300-LM315 FOR MATERIALS PLAN.
6. REFER TO SHEETS LP300-LP315 FOR PLANTING PLAN.
7. REFER TO SHEETS LS300-LS315 FOR SOILS PLAN.
8. REFER TO SHEETS E300-E302 FOR ELECTRICAL PLAN.
9. REFER TO SHEETS P300-P313 FOR PLUMBING PLAN.
10. REFER TO SHEETS F500-F507 FOR ESPLANADE STRUCTURAL PLAN.
11. REFER TO SHEET F603 FOR TYPICAL FLOODWALL SECTION AND SCHEDULE.

**LEGEND:**

- LIMITS OF WORK
- PROPOSED JET GROUTING ZONE



**PRELIMINARY**  
SUBMITTED DATE: 7/18/2019

TOPOGRAPHIC SURVEY PREPARED BY: FOR SURVEYOR  
INFORMATION SEE SURVEY SET SU100 DRAWINGS SERIES

FINAL DESIGN SUBMITTED BY:



The AKRF-KSE JV

FINAL DESIGN PREPARED BY:



CH2M HILL NEW YORK, INC.  
NAME OF CONSULTANT

SIGNATURE \_\_\_\_\_

DATE \_\_\_\_\_

CITY OF NEW YORK  
DEPARTMENT OF DESIGN + CONSTRUCTION  
DIVISION OF INFRASTRUCTURE  
BUREAU OF DESIGN

FLOODWALL STRUCTURAL PLAN  
SEGMENT 1 - REACH D  
STA. 30+45 - 39+96

CH2M  
DRAWN BY \_\_\_\_\_

SANDRESM1-F303-00.DWG  
CADD FILE

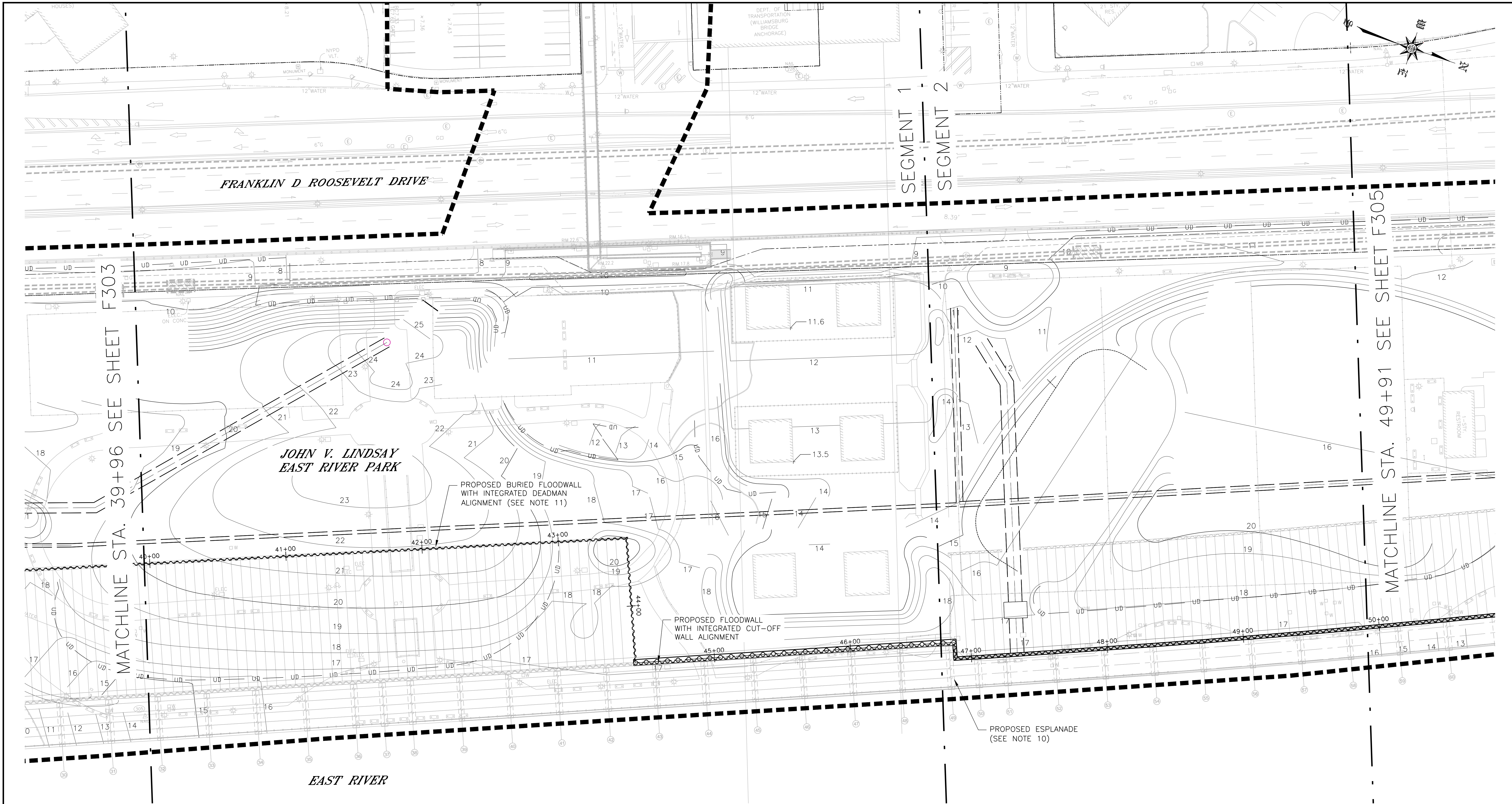
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INSTALLATION OF  
EAST SIDE COASTAL RESILIENCY  
BOROUGH OF MANHATTAN

CAPITAL PROJECT NO. SANDRESM1 7/18/2019 SHEET 348 OF 1594 F303



REVISED MASS MAILING #1 SUBMISSION 7/18/2019



MATCHLINE STA. 39+96 SEE SHEET F303

MATCHLINE STA. 49+91 SEE SHEET F305

EAST RIVER

FRANKLIN D. ROOSEVELT DRIVE

JOHN V. LINDSAY EAST RIVER PARK

PROPOSED BURIED FLOODWALL WITH INTEGRATED DEADMAN ALIGNMENT (SEE NOTE 11)

PROPOSED FLOODWALL WITH INTEGRATED CUT-OFF WALL ALIGNMENT

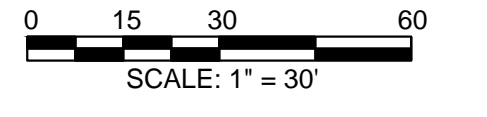
PROPOSED ESPLANADE (SEE NOTE 10)

NOTES:

1. ALL ITEMS CALLED OUT AS EXISTING ARE TO REMAIN UNLESS NOTED OTHERWISE.
2. REFER TO SHEETS PW300-PW315 FOR SHARED USE PATH PLAN.
3. REFER TO SHEETS LG300-LG315 FOR SITE AND GRADING PLAN.
4. REFER TO SHEETS LL300-LL315 FOR LAYOUT PLAN.
5. REFER TO SHEETS LM300-LM315 FOR MATERIALS PLAN.
6. REFER TO SHEETS LP300-LP315 FOR PLANTING PLAN.
7. REFER TO SHEETS LS300-LS315 FOR SOILS PLAN.
8. REFER TO SHEETS E300-E302 FOR ELECTRICAL PLAN.
9. REFER TO SHEETS P300-P313 FOR PLUMBING PLAN.
10. REFER TO SHEETS F500-F507 FOR ESPLANADE STRUCTURAL PLAN.
11. REFER TO SHEET F603 FOR TYPICAL FLOODWALL SECTION AND SCHEDULE.

LEGEND:

--- LIMITS OF WORK



**PRELIMINARY**  
 SUBMITTED DATE: 7/18/2019

TOPOGRAPHIC SURVEY PREPARED BY: FOR SURVEYOR INFORMATION SEE SURVEY SET SU100 DRAWINGS SERIES

FINAL DESIGN SUBMITTED BY:  
**AKRF KSE**  
 The AKRF-KSE JV

FINAL DESIGN PREPARED BY:  
**ch2m**  
 CH2M HILL NEW YORK, INC.  
 NAME OF CONSULTANT

SIGNATURE \_\_\_\_\_  
 DATE \_\_\_\_\_

CITY OF NEW YORK  
 DEPARTMENT OF DESIGN + CONSTRUCTION  
 DIVISION OF INFRASTRUCTURE  
 BUREAU OF DESIGN

FLOODWALL STRUCTURAL PLAN  
 SEGMENT 1 - REACH E  
 STA. 39+96 - 49+91

CH2M DRAWN BY \_\_\_\_\_  
 SANDRESM1-F304-00.DWG  
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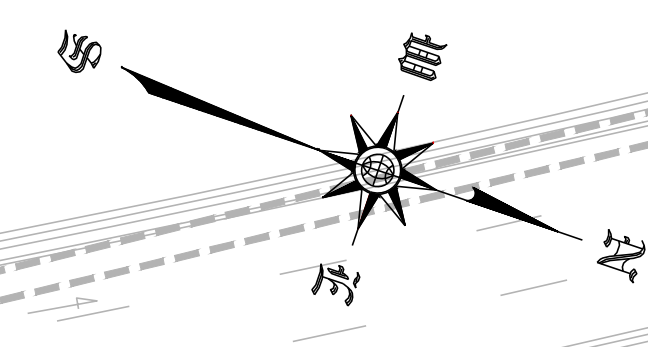
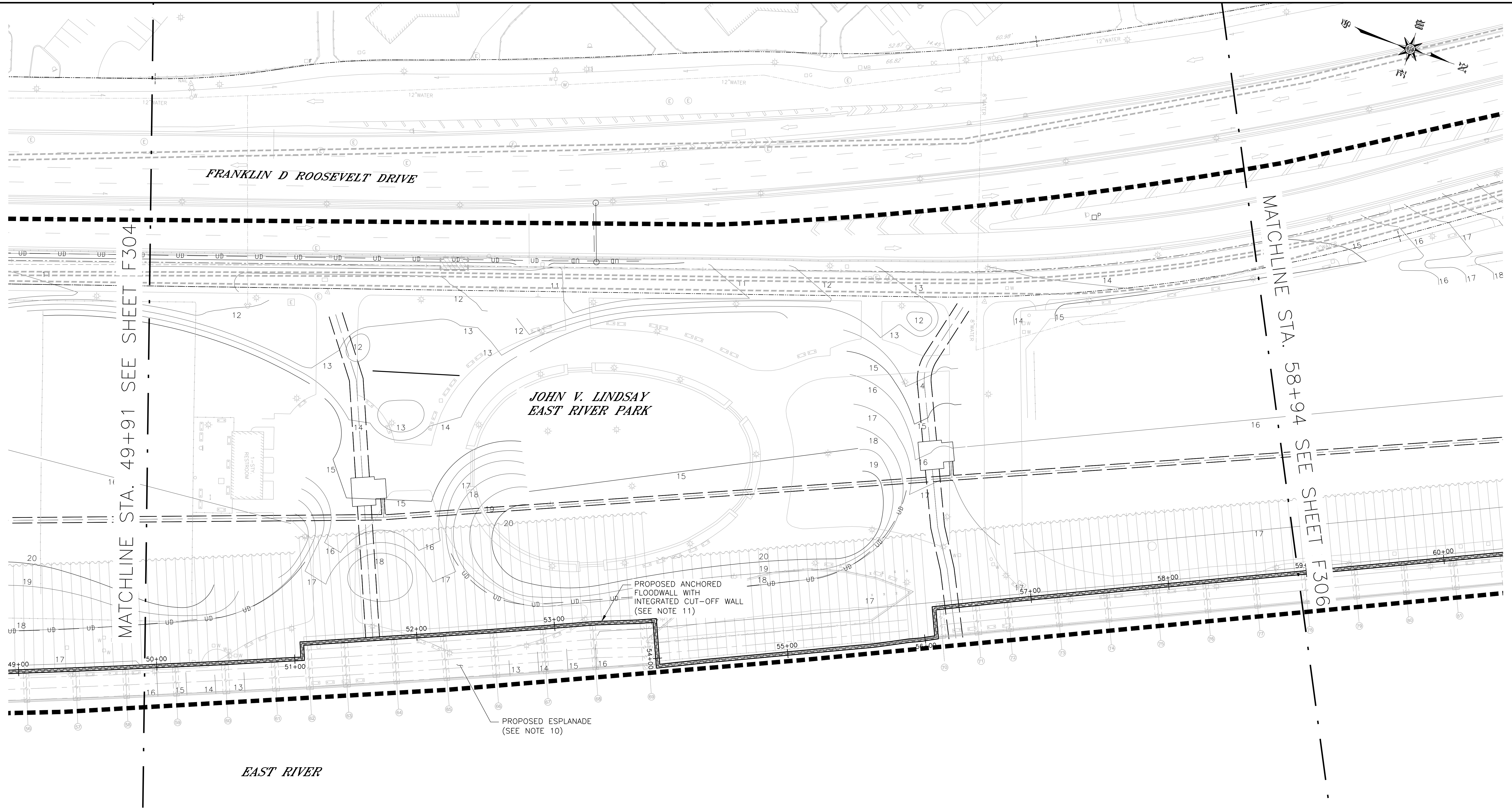
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INSTALLATION OF  
 EAST SIDE COASTAL RESILIENCY  
 BOROUGH OF MANHATTAN

CAPITAL PROJECT NO. SANDRESM1 7/18/2019 SHEET 349 OF 1594 F304



REVISED MASS MAILING # 1 SUBMISSION 7/18/2019



MATCHLINE STA. 49+91 SEE SHEET F304

MATCHLINE STA. 58+94 SEE SHEET F306

**JOHN V. LINDSAY  
EAST RIVER PARK**

PROPOSED ANCHORED  
FLOODWALL WITH  
INTEGRATED CUT-OFF WALL  
(SEE NOTE 11)

PROPOSED ESPLANADE  
(SEE NOTE 10)

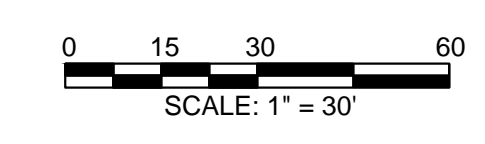
*EAST RIVER*

*FRANKLIN D ROOSEVELT DRIVE*

**LEGEND:**  
 - - - - - LIMITS OF WORK

**NOTES:**

1. ALL ITEMS CALLED OUT AS EXISTING ARE TO REMAIN UNLESS NOTED OTHERWISE.
2. REFER TO SHEETS PW300-PW315 FOR SHARED USE PATH PLAN.
3. REFER TO SHEETS LG300-LG315 FOR SITE AND GRADING PLAN.
4. REFER TO SHEETS LL300-LL315 FOR LAYOUT PLAN.
5. REFER TO SHEETS LM300-LM315 FOR MATERIALS PLAN.
6. REFER TO SHEETS LP300-LP315 FOR PLANTING PLAN.
7. REFER TO SHEETS LS300-LS315 FOR SOILS PLAN.
8. REFER TO SHEETS E300-E302 FOR ELECTRICAL PLAN.
9. REFER TO SHEETS P300-P313 FOR PLUMBING PLAN.
10. REFER TO SHEETS F500-F507 FOR ESPLANADE STRUCTURAL PLAN.
11. REFER TO SHEET F603 FOR TYPICAL FLOODWALL SECTION AND SCHEDULE.



**PRELIMINARY**  
 SUBMITTED DATE: 7/18/2019

TOPOGRAPHIC SURVEY PREPARED BY: FOR SURVEYOR  
 INFORMATION SEE SURVEY SET SU100 DRAWINGS SERIES

FINAL DESIGN SUBMITTED BY:  
  
 The AKRF-KSE JV

FINAL DESIGN PREPARED BY:  
  
 CH2M HILL NEW YORK, INC.  
 NAME OF CONSULTANT  
 SIGNATURE \_\_\_\_\_  
 DATE \_\_\_\_\_

CITY OF NEW YORK  
 DEPARTMENT OF DESIGN + CONSTRUCTION  
 DIVISION OF INFRASTRUCTURE  
 BUREAU OF DESIGN

FLOODWALL STRUCTURAL PLAN  
 SEGMENT 2 - REACH F  
 STA. 49+91 - 58+94  
 CH2M DRAWN BY \_\_\_\_\_  
 SANDRESM1-F305-00.DWG  
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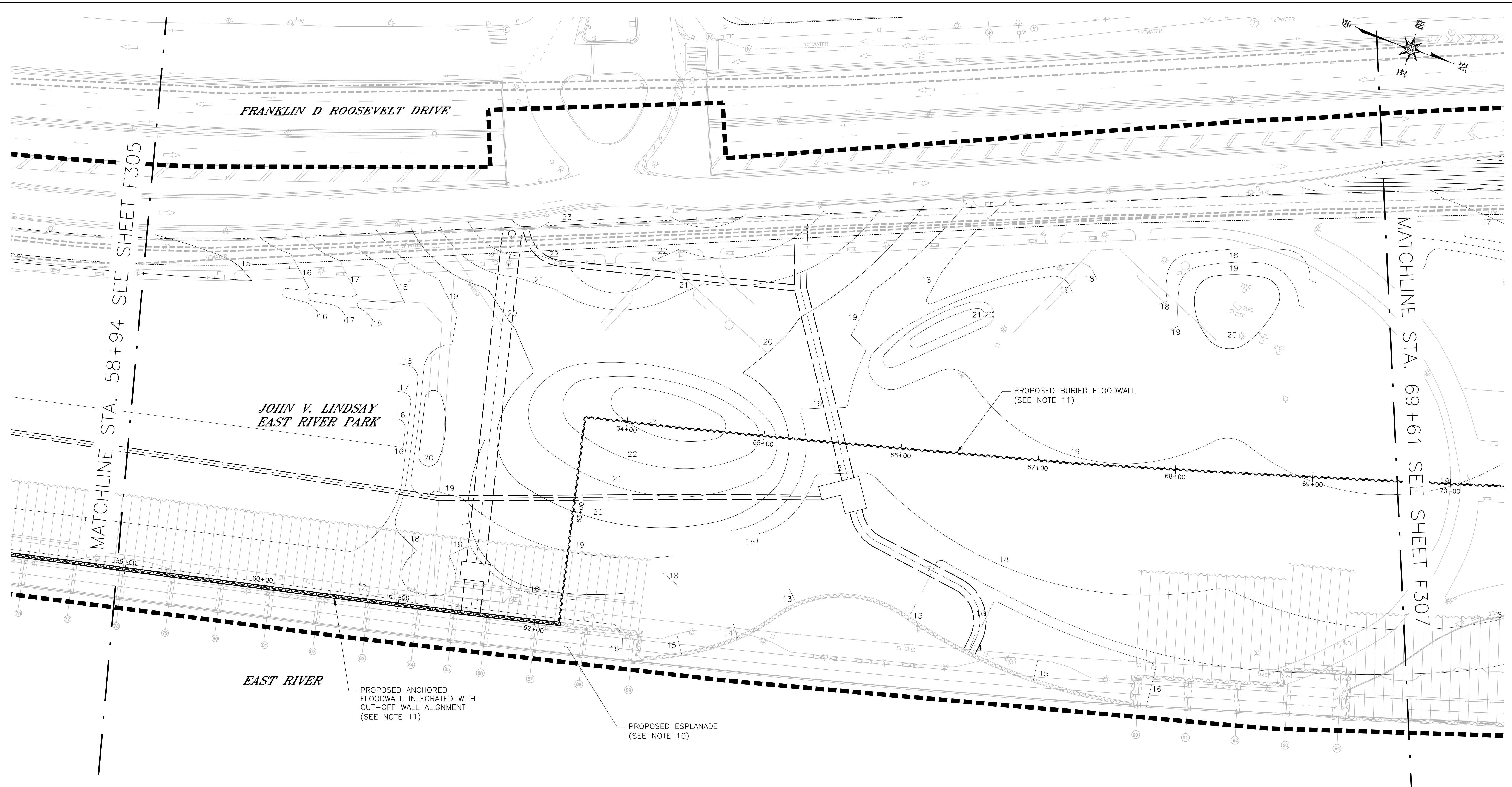
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**INSTALLATION OF  
EAST SIDE COASTAL RESILIENCY**  
 BOROUGH OF MANHATTAN

CAPITAL PROJECT NO. SANDRESM1 7/18/2019    SHEET 350 OF 1594    F305



REVISED MASS MAILING #1 SUBMISSION 7/18/2019



**PRELIMINARY**  
SUBMITTED DATE: 7/18/2019

**LEGEND:**  
— — — — — LIMITS OF WORK

- NOTES:**
1. ALL ITEMS CALLED OUT AS EXISTING ARE TO REMAIN UNLESS NOTED OTHERWISE.
  2. REFER TO SHEETS PW300-PW315 FOR SHARED USE PATH PLAN.
  3. REFER TO SHEETS LG300-LG315 FOR SITE AND GRADING PLAN.
  4. REFER TO SHEETS LL300-LL315 FOR LAYOUT PLAN.
  5. REFER TO SHEETS LM300-LM315 FOR MATERIALS PLAN.
  6. REFER TO SHEETS LP300-LP315 FOR PLANTING PLAN.
  7. REFER TO SHEETS LS300-LS315 FOR SOILS PLAN.
  8. REFER TO SHEETS E300-E302 FOR ELECTRICAL PLAN.
  9. REFER TO SHEETS P300-P313 FOR PLUMBING PLAN.
  10. REFER TO SHEETS F500-F507 FOR ESPLANADE STRUCTURAL PLAN.
  11. REFER TO SHEET F603 FOR TYPICAL FLOODWALL SECTION AND SCHEDULE.

| NO. | DATE | DESCRIPTIONS<br>REVISIONS | BY | APPR'D |
|-----|------|---------------------------|----|--------|
|     |      |                           |    |        |

TOPOGRAPHIC SURVEY PREPARED BY: FOR SURVEYOR  
INFORMATION SEE SURVEY SET SU100 DRAWINGS SERIES

FINAL DESIGN SUBMITTED BY:  
**AKRF KSE**  
The AKRF-KSE JV

FINAL DESIGN PREPARED BY:  
**ch2m**  
CH2M HILL NEW YORK, INC.  
NAME OF CONSULTANT  
SIGNATURE \_\_\_\_\_  
DATE \_\_\_\_\_

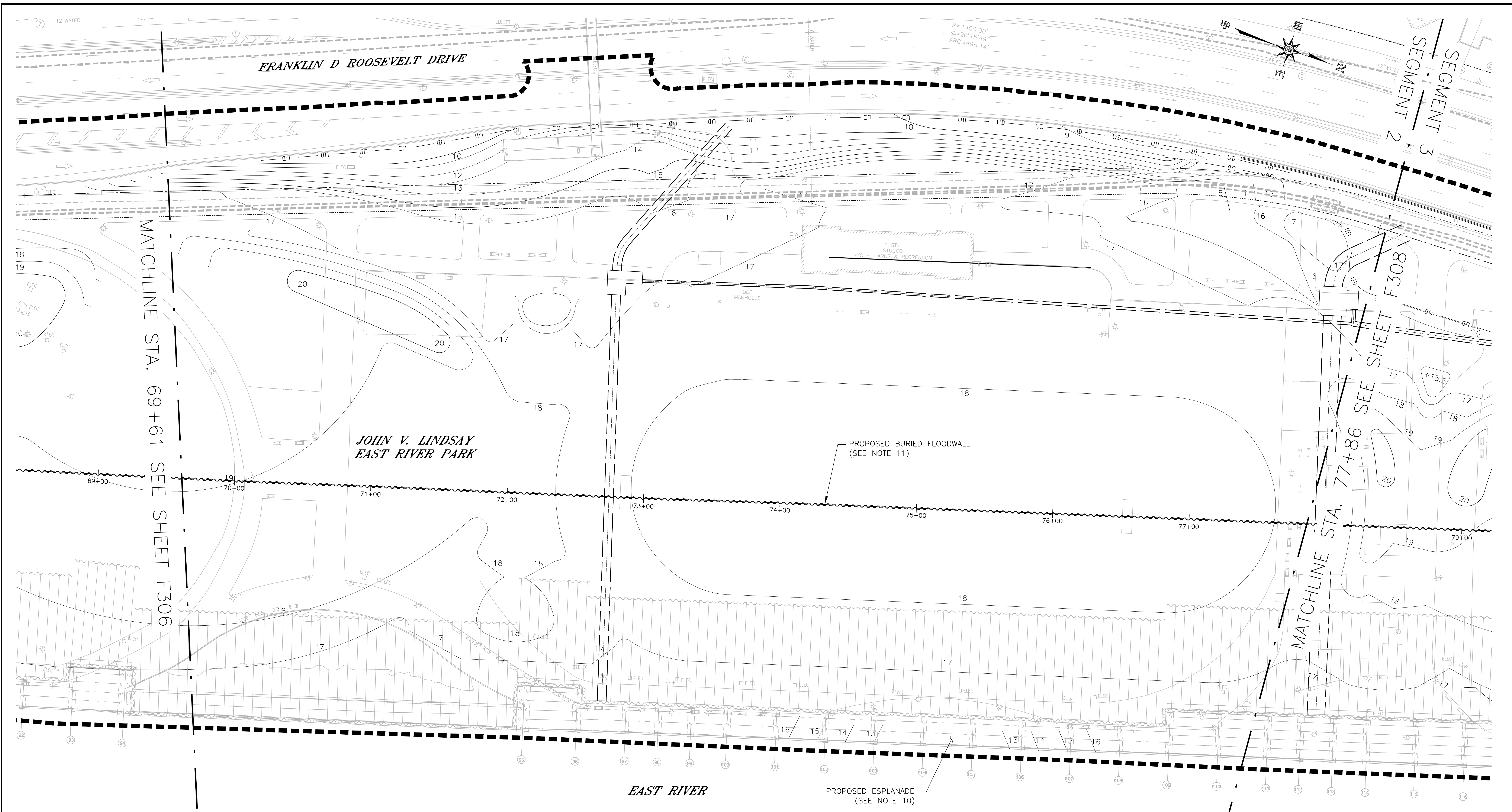
CITY OF NEW YORK  
DEPARTMENT OF DESIGN + CONSTRUCTION  
DIVISION OF INFRASTRUCTURE  
BUREAU OF DESIGN

FLOODWALL STRUCTURAL PLAN  
SEGMENT 2 - REACH G  
STA. 58+94 - 69+61  
CH2M DRAWN BY \_\_\_\_\_  
SANDRESM1-F306-00.DWG  
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INSTALLATION OF  
EAST SIDE COASTAL RESILIENCY  
BOROUGH OF MANHATTAN  
CAPITAL PROJECT NO. SANDRESM1 7/18/2019  
SHEET 351 OF 1594  
F306



REVISED MASS MAILING # 1 SUBMISSION 7/18/2019

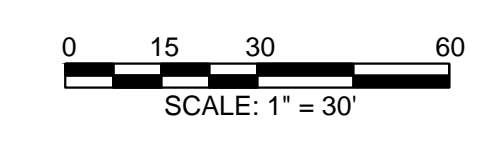


**NOTES:**

1. ALL ITEMS CALLED OUT AS EXISTING ARE TO REMAIN UNLESS NOTED OTHERWISE.
2. REFER TO SHEETS PW300-PW315 FOR SHARED USE PATH PLAN.
3. REFER TO SHEETS LG300-LG315 FOR SITE AND GRADING PLAN.
4. REFER TO SHEETS LL300-LL315 FOR LAYOUT PLAN.
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6. REFER TO SHEETS LP300-LP315 FOR PLANTING PLAN.
7. REFER TO SHEETS LS300-LS315 FOR SOILS PLAN.
8. REFER TO SHEETS E300-E302 FOR ELECTRICAL PLAN.
9. REFER TO SHEETS P300-P313 FOR PLUMBING PLAN.
10. REFER TO SHEETS F500-F507 FOR ESPLANADE STRUCTURAL PLAN.
11. REFER TO SHEET F603 FOR TYPICAL FLOODWALL SECTION AND SCHEDULE.

**LEGEND:**

--- LIMITS OF WORK



**PRELIMINARY**  
SUBMITTED DATE: 7/18/2019

TOPOGRAPHIC SURVEY PREPARED BY: FOR SURVEYOR  
INFORMATION SEE SURVEY SET SU100 DRAWINGS SERIES

FINAL DESIGN SUBMITTED BY:



FINAL DESIGN PREPARED BY:



SIGNATURE \_\_\_\_\_  
DATE \_\_\_\_\_

CITY OF NEW YORK  
DEPARTMENT OF DESIGN + CONSTRUCTION  
DIVISION OF INFRASTRUCTURE  
BUREAU OF DESIGN

FLOODWALL STRUCTURAL PLAN  
SEGMENT 2 - REACH H  
STA. 69+61 - 77+86

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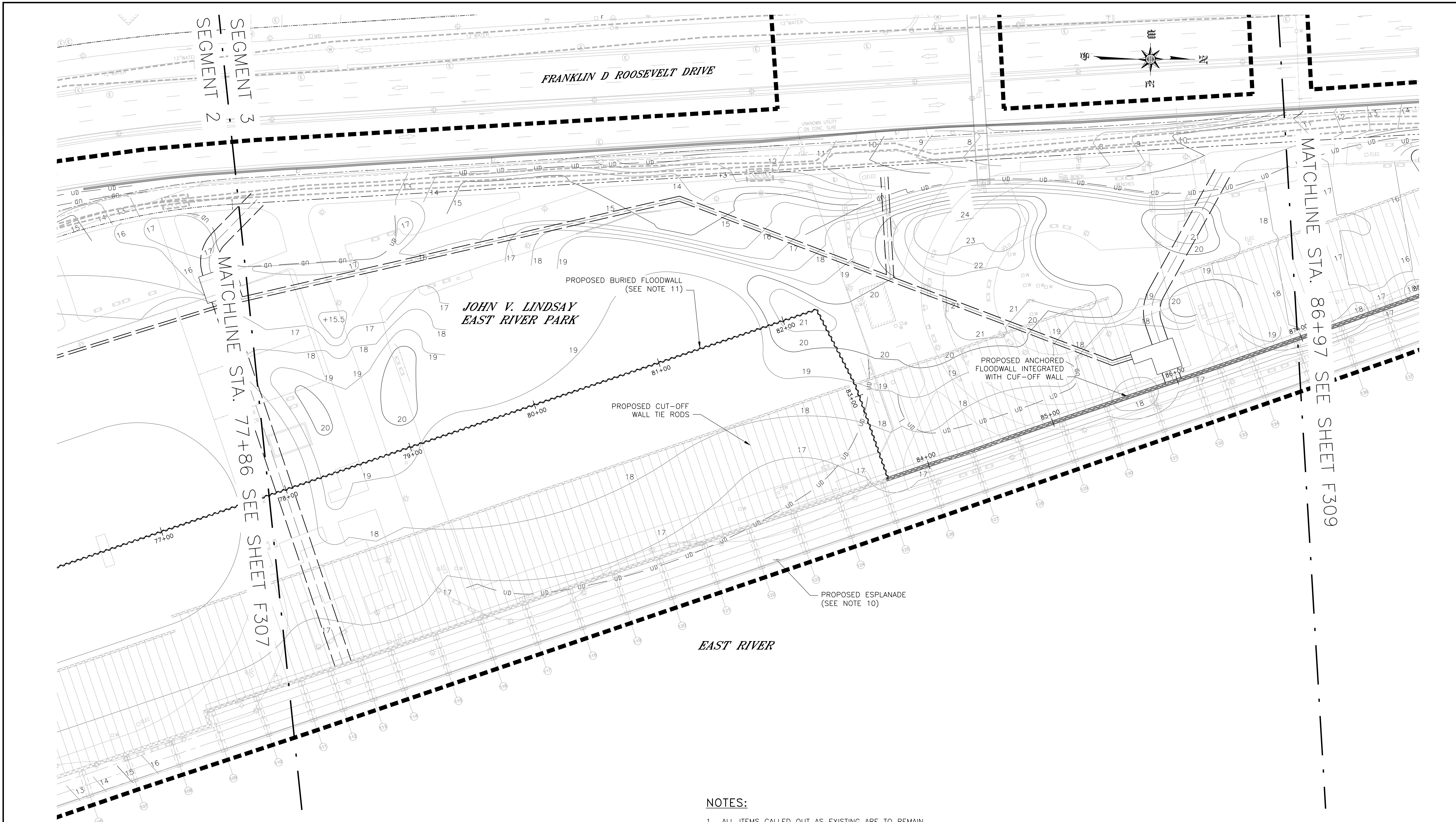
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INSTALLATION OF  
EAST SIDE COASTAL RESILIENCY  
BOROUGH OF MANHATTAN

CAPITAL PROJECT NO. SANDRESM1 7/18/2019 SHEET 352 OF 1594 F307



REVISED MASS MAILING # 1 SUBMISSION 7/18/2019



SEGMENT 3  
SEGMENT 2

MATCHLINE STA. 77+86 SEE SHEET F307

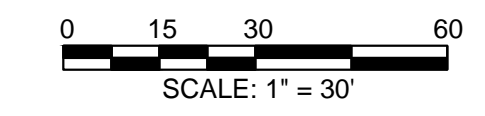
MATCHLINE STA. 86+97 SEE SHEET F309

**LEGEND:**

--- LIMITS OF WORK

**NOTES:**

1. ALL ITEMS CALLED OUT AS EXISTING ARE TO REMAIN UNLESS NOTED OTHERWISE.
2. REFER TO SHEETS PW300-PW315 FOR SHARED USE PATH PLAN.
3. REFER TO SHEETS LG300-LG315 FOR SITE PLAN AND GRADING PLAN.
4. REFER TO SHEETS LL300-LL315 FOR LAYOUT PLAN.
5. REFER TO SHEETS LM300-LM315 FOR MATERIALS PLAN.
6. REFER TO SHEETS LP300-LP315 FOR PLANTING PLAN.
7. REFER TO SHEETS LS300-LS315 FOR SOILS PLAN.
8. REFER TO SHEETS E300-E302 FOR ELECTRICAL PLAN.
9. REFER TO SHEETS P300-P313 FOR PLUMBING PLAN.
10. REFER TO SHEETS F500-F507 FOR ESPLANADE STRUCTURAL PLAN.
11. REFER TO SHEET F603 FOR TYPICAL FLOODWALL SECTION AND SCHEDULE.



**PRELIMINARY**  
SUBMITTED DATE: 7/18/2019

TOPOGRAPHIC SURVEY PREPARED BY: FOR SURVEYOR  
INFORMATION SEE SURVEY SET SU100 DRAWINGS SERIES

FINAL DESIGN SUBMITTED BY:  
**AKRF KSE**  
The AKRF-KSE JV

FINAL DESIGN PREPARED BY:  
**ch2m**  
CH2M HILL NEW YORK, INC.  
NAME OF CONSULTANT

SIGNATURE \_\_\_\_\_  
DATE \_\_\_\_\_

CITY OF NEW YORK  
DEPARTMENT OF DESIGN + CONSTRUCTION  
DIVISION OF INFRASTRUCTURE  
BUREAU OF DESIGN

FLOODWALL STRUCTURAL PLAN  
SEGMENT 3 - REACH I  
STA. 77+86 - 86+97

CH2M DRAWN BY \_\_\_\_\_  
SANDRESM1-F308-00.DWG  
CADD FILE

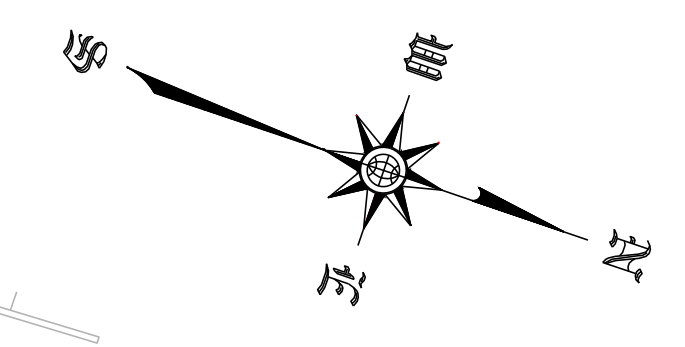
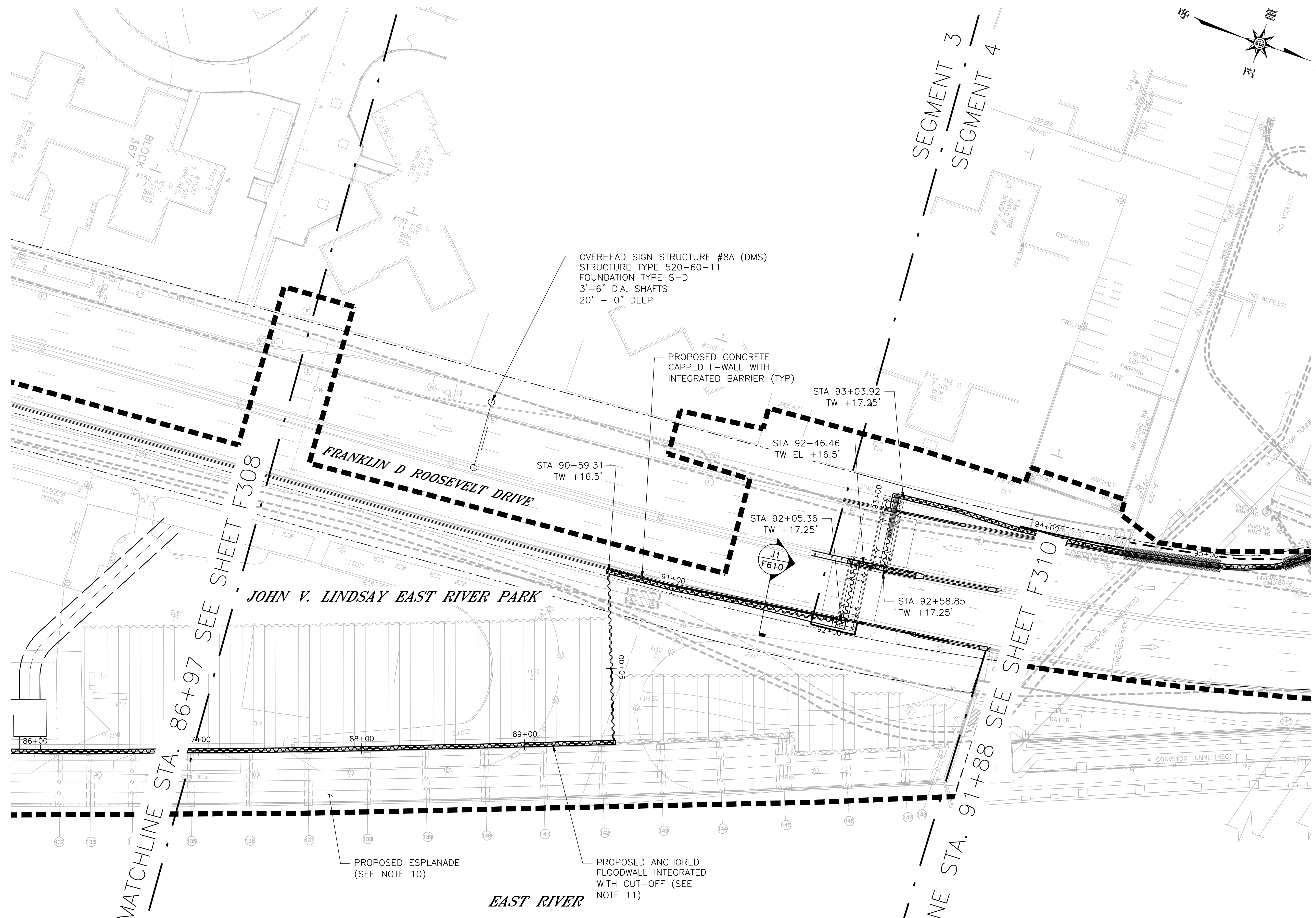
| NO. | DATE | DESCRIPTIONS | BY | APPR'D |
|-----|------|--------------|----|--------|
|     |      |              |    |        |

INSTALLATION OF  
EAST SIDE COASTAL RESILIENCY  
BOROUGH OF MANHATTAN

CAPITAL PROJECT NO. SANDRESM1 7/18/2019 SHEET 353 OF 1594 F308



REVISED MASS MAILING #1 SUBMISSION 7/18/2019



OVERHEAD SIGN STRUCTURE #8A (DMS)  
STRUCTURE TYPE 520-60-11  
FOUNDATION TYPE S-D  
3'-6" DIA. SHAFTS  
20' - 0" DEEP

PROPOSED CONCRETE  
CAPPED I-WALL WITH  
INTEGRATED BARRIER (TYP)

JOHN V. LINDSAY EAST RIVER PARK

FRANKLIN D ROOSEVELT DRIVE

EAST RIVER

MATCHLINE STA. 86+97 SEE SHEET F308

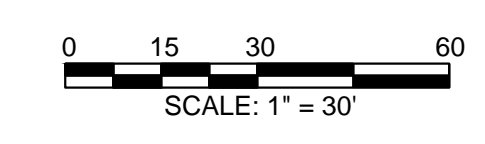
MATCHLINE STA. 91+88 SEE SHEET F310

**NOTES:**

1. ALL ITEMS CALLED OUT AS EXISTING ARE TO REMAIN UNLESS NOTED OTHERWISE.
2. REFER TO SHEETS PW300-PW315 FOR SHARED USE PATH PLAN.
3. REFER TO SHEETS LG300-LG315 FOR SITE AND GRADING PLAN.
4. REFER TO SHEETS LL300-LL315 FOR LAYOUT PLAN.
5. REFER TO SHEETS LM300-LM315 FOR MATERIALS PLAN.
6. REFER TO SHEETS LP300-LP315 FOR PLANTING PLAN.
7. REFER TO SHEETS LS300-LS315 FOR SOILS PLAN.
8. REFER TO SHEETS E300-E302 FOR ELECTRICAL PLAN.
9. REFER TO SHEETS P300-P313 FOR PLUMBING PLAN.
10. REFER TO SHEETS F500-F507 FOR ESPLANADE STRUCTURAL PLAN.
11. REFER TO SHEET F603 FOR TYPICAL FLOODWALL SECTION AND SCHEDULE.

**LEGEND:**

- LIMITS OF WORK
- PROPOSED JET GROUTING ZONE



**PRELIMINARY**  
SUBMITTED DATE: 7/18/2019

TOPOGRAPHIC SURVEY PREPARED BY: FOR SURVEYOR  
INFORMATION SEE SURVEY SET SU100 DRAWINGS SERIES

FINAL DESIGN SUBMITTED BY:  
**AKRF KSE**  
The AKRF-KSE JV

FINAL DESIGN PREPARED BY:  
**ch2m**  
CH2M HILL NEW YORK, INC.  
NAME OF CONSULTANT  
SIGNATURE \_\_\_\_\_  
DATE \_\_\_\_\_

CITY OF NEW YORK  
DEPARTMENT OF DESIGN + CONSTRUCTION  
DIVISION OF INFRASTRUCTURE  
BUREAU OF DESIGN

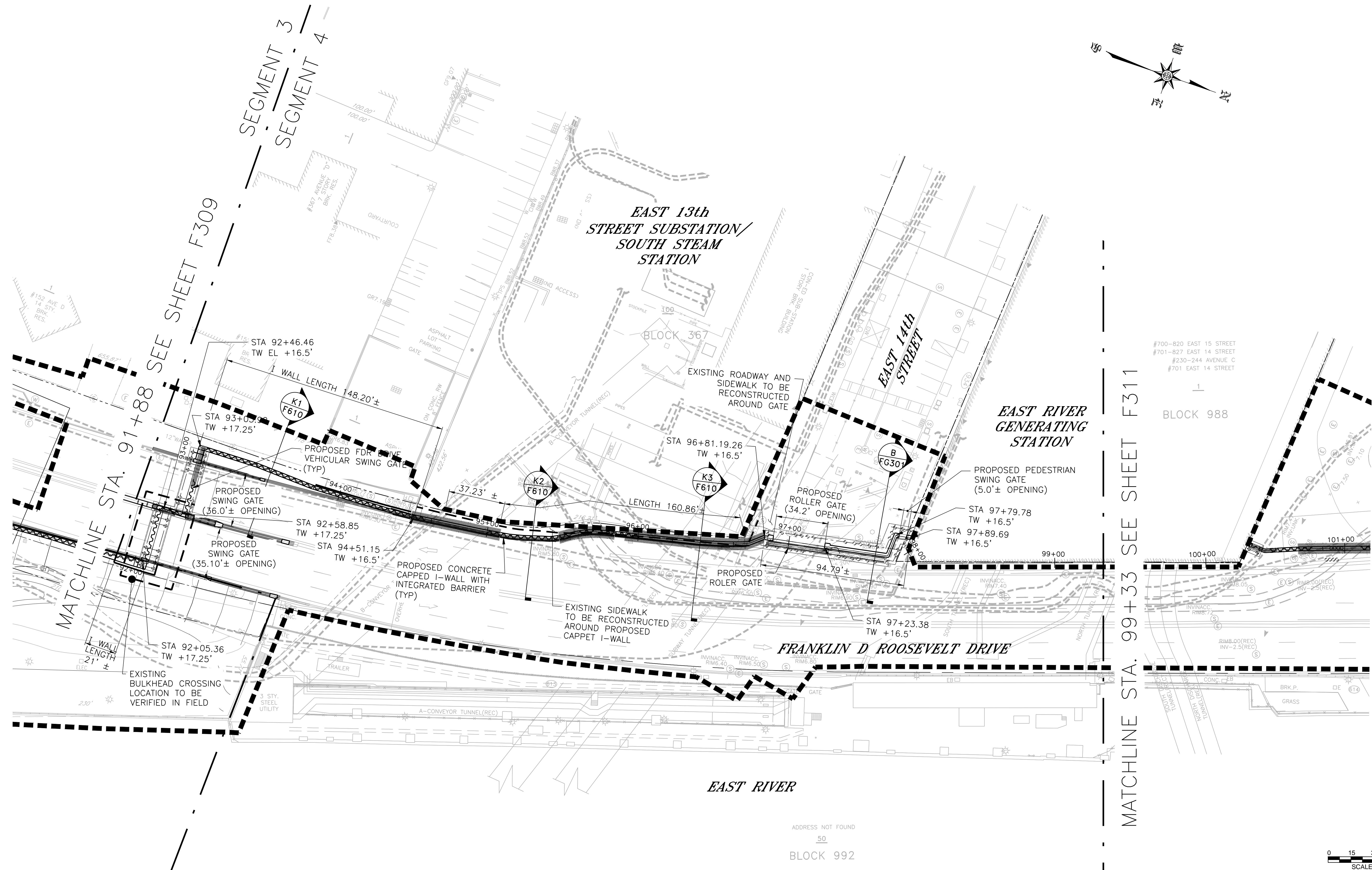
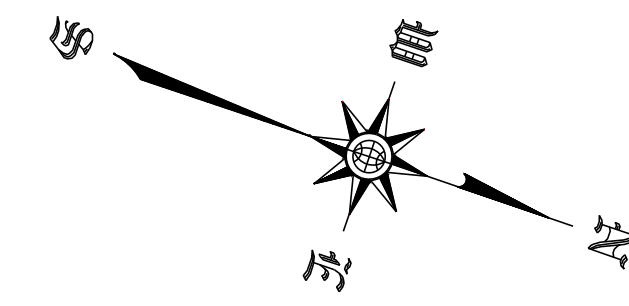
FLOODWALL STRUCTURAL PLAN  
SEGMENT 3 - REACH J  
STA. 86+97 - 91+88  
CH2M DRAWN BY \_\_\_\_\_  
SANDRESM1-F309-00.DWG  
CADD FILE

| NO. | DATE | DESCRIPTIONS | BY | APPR'D |
|-----|------|--------------|----|--------|
|     |      |              |    |        |

INSTALLATION OF  
EAST SIDE COASTAL RESILIENCY  
BOROUGH OF MANHATTAN  
CAPITAL PROJECT NO. SANDRESM1 7/18/2019  
SHEET 354 OF 1594  
F309



REVISED MASS MAILING #1 SUBMISSION 7/18/2019



MATCHLINE STA. 91+88 SEE SHEET F309

MATCHLINE STA. 99+33 SEE SHEET F311

- LEGEND:**
- LIMITS OF WORK
  - PROPOSED JET GROUTING ZONE

- NOTES:**
1. ALL ITEMS CALLED OUT AS EXISTING ARE TO REMAIN UNLESS NOTED OTHERWISE.
  2. REFER TO SHEETS PW300-PW315 FOR SHARED USE PATH PLAN.
  3. REFER TO SHEETS LG300-LG315 FOR SITE AND GRADING PLAN.
  4. REFER TO SHEETS LL300-LL315 FOR LAYOUT PLAN.
  5. REFER TO SHEETS LM300-LM315 FOR MATERIALS PLAN.
  6. REFER TO SHEETS LP300-LP315 FOR PLANTING PLAN.
  7. REFER TO SHEETS LS300-LS315 FOR SOILS PLAN.
  8. REFER TO SHEETS E300-E302 FOR ELECTRICAL PLAN.
  9. REFER TO SHEETS P300-P313 FOR PLUMBING PLAN.



**PRELIMINARY**

SUBMITTED DATE: 7/18/2019

TOPOGRAPHIC SURVEY PREPARED BY: FOR SURVEYOR  
INFORMATION SEE SURVEY SET SU100 DRAWINGS SERIES

|                                |   |                               |
|--------------------------------|---|-------------------------------|
| FINAL DESIGN SUBMITTED BY:<br> | FINAL DESIGN PREPARED BY:<br>CH2M HILL NEW YORK, INC.<br>NAME OF CONSULTANT | SIGNATURE _____<br>DATE _____ |
|--------------------------------|---|-------------------------------|

CITY OF NEW YORK  
DEPARTMENT OF DESIGN + CONSTRUCTION  
DIVISION OF INFRASTRUCTURE  
BUREAU OF DESIGN

FLOODWALL STRUCTURAL PLAN  
SEGMENT 4 - REACH K  
STA. 91+88 - 99+33

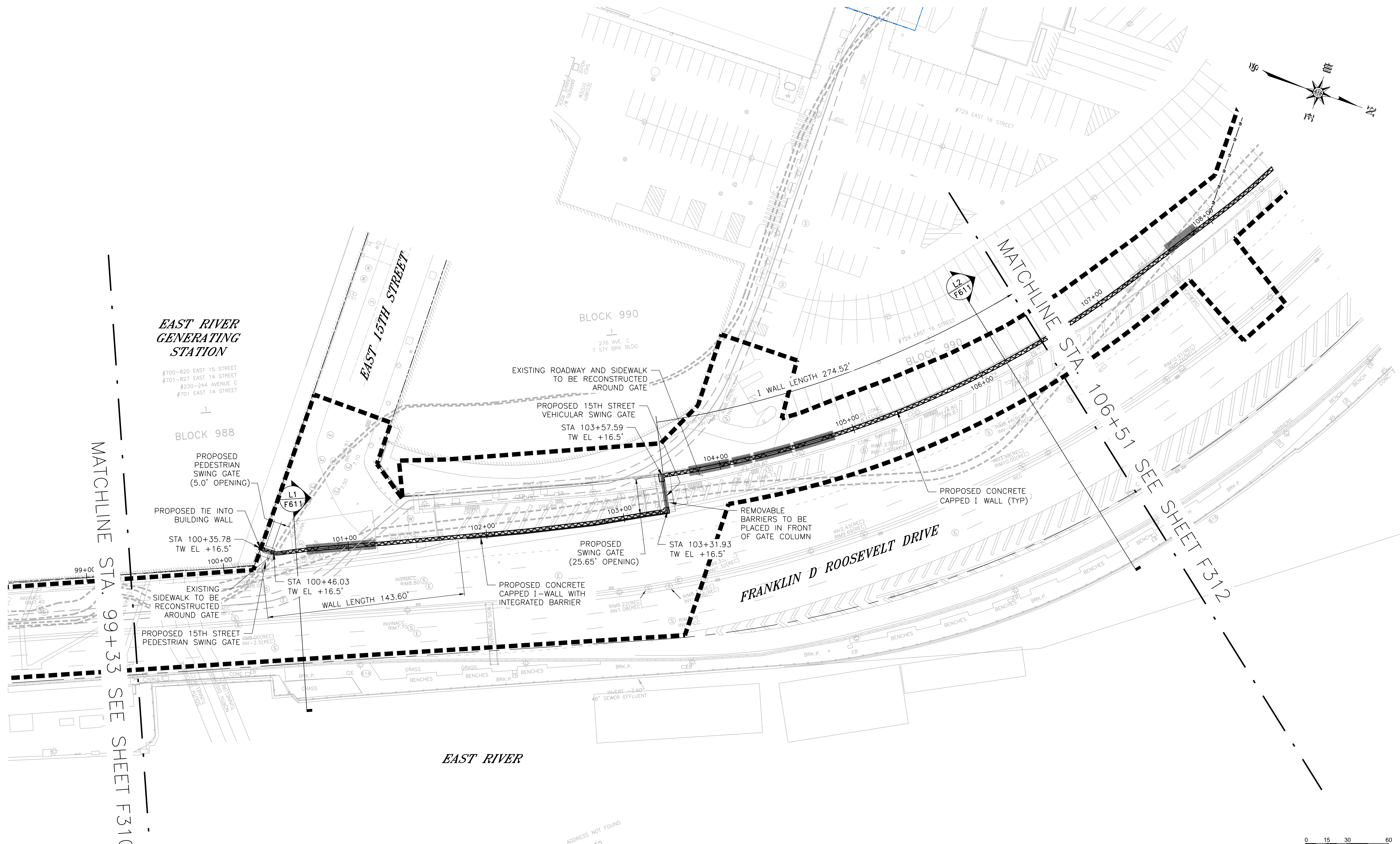
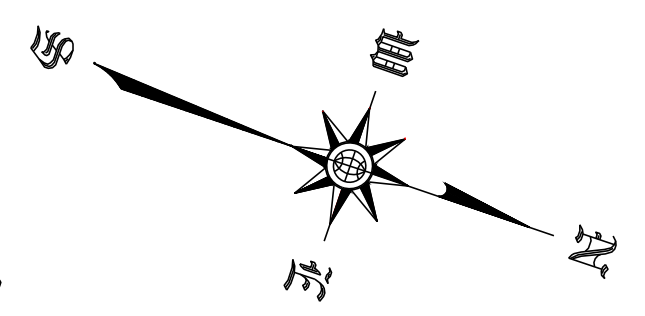
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CADD FILE

| NO. | DATE | DESCRIPTIONS<br>REVISIONS | BY | APPR'D |
|-----|------|---------------------------|----|--------|
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|     |      |                           |    |        |

CAPITAL PROJECT NO. SANDRESM1 7/18/2019 SHEET 355 OF 1594 F310



REVISED MASS MAILING # 1 SUBMISSION 7/18/2019



**EAST RIVER GENERATING STATION**  
 #700-820 EAST 15 STREET  
 #701-827 EAST 14 STREET  
 #230-244 AVENUE C  
 #701 EAST 14 STREET

MATCHLINE STA. 99+33 SEE SHEET F310

MATCHLINE STA. 106+51 SEE SHEET F312

**LEGEND:**  
 - - - - - LIMITS OF WORK  
 [Hatched Box] PROPOSED JET GROUTING ZONE

**NOTES:**

1. ALL ITEMS CALLED OUT AS EXISTING ARE TO REMAIN UNLESS NOTED OTHERWISE.
2. REFER TO SHEETS PW300-PW315 FOR SHARED USE PATH PLAN.
3. REFER TO SHEETS LG300-LG315 FOR SITE AND GRADING PLAN.
4. REFER TO SHEETS LL300-LL315 FOR LAYOUT PLAN.
5. REFER TO SHEETS LM300-LM315 FOR MATERIALS PLAN.
6. REFER TO SHEETS LP300-LP315 FOR PLANTING PLAN.
7. REFER TO SHEETS LS300-LS315 FOR SOILS PLAN.
8. REFER TO SHEETS E300-E302 FOR ELECTRICAL PLAN.
9. REFER TO SHEETS P300-P313 FOR PLUMBING PLAN.

0 15 30 60  
 SCALE: 1" = 30'

**PRELIMINARY**  
 SUBMITTED DATE: 7/18/2019

TOPOGRAPHIC SURVEY PREPARED BY: FOR SURVEYOR  
 INFORMATION SEE SURVEY SET SU100 DRAWINGS SERIES

FINAL DESIGN SUBMITTED BY:  
 The AKRF-KSE JV

FINAL DESIGN PREPARED BY:  
 CH2M HILL NEW YORK, INC.  
 NAME OF CONSULTANT

SIGNATURE \_\_\_\_\_  
 DATE \_\_\_\_\_

CITY OF NEW YORK  
 DEPARTMENT OF DESIGN + CONSTRUCTION  
 DIVISION OF INFRASTRUCTURE  
 BUREAU OF DESIGN

FLOODWALL STRUCTURAL PLAN  
 SEGMENT 4 - REACH L  
 STA. 99+33 - 106+51  
 CH2M DRAWN BY \_\_\_\_\_ SANDRESM1-F311-00.DWG  
 CADD FILE

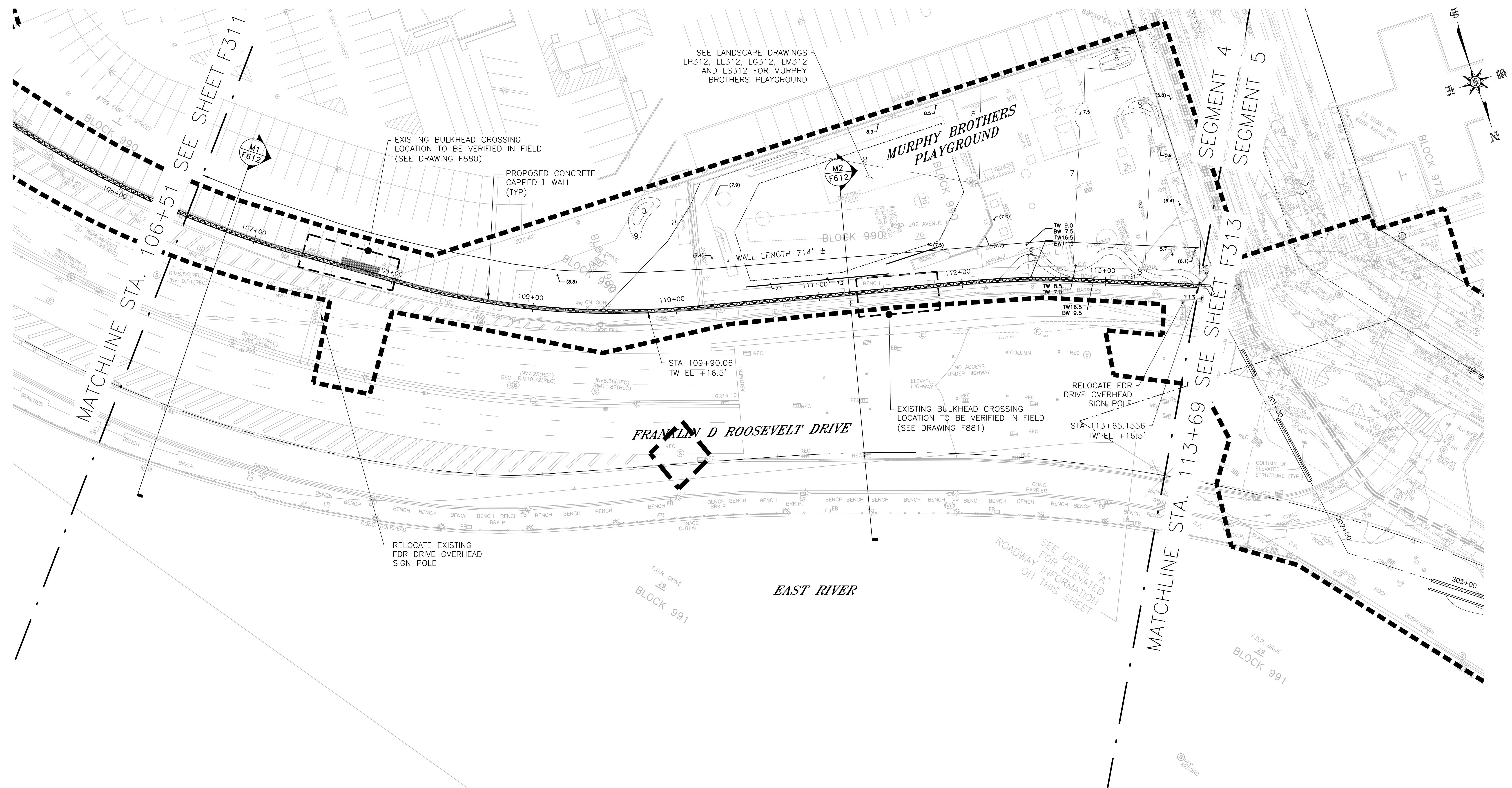
| NO. | DATE | DESCRIPTIONS<br>REVISIONS | BY | APPR'D |
|-----|------|---------------------------|----|--------|
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INSTALLATION OF  
 EAST SIDE COASTAL RESILIENCY  
 BOROUGH OF MANHATTAN

CAPITAL PROJECT NO. SANDRESM1 7/18/2019 SHEET 356 OF 1594 F311



REVISED MASS MAILING #1 SUBMISSION 7/18/2019



- LEGEND:**
- LIMITS OF WORK
  - PROPOSED JET GROUTING ZONE

- NOTES:**
1. ALL ITEMS CALLED OUT AS EXISTING ARE TO REMAIN UNLESS NOTED OTHERWISE.
  2. REFER TO SHEETS PW300-PW315 FOR SHARED USE PATH PLAN.
  3. REFER TO SHEETS LG300-LG315 FOR SITE AND GRADING PLAN.
  4. REFER TO SHEETS LL300-LL315 FOR LAYOUT PLAN.
  5. REFER TO SHEETS LM300-LM315 FOR MATERIALS PLAN.
  6. REFER TO SHEETS LP300-LP315 FOR PLANTING PLAN.
  7. REFER TO SHEETS LS300-LS315 FOR SOILS PLAN.
  8. REFER TO SHEETS E300-E302 FOR ELECTRICAL PLAN.
  9. REFER TO SHEETS P300-P313 FOR PLUMBING PLAN.

**PRELIMINARY**  
SUBMITTED DATE: 7/18/2019

| NO. | DATE | DESCRIPTIONS<br>REVISIONS | BY | APPR'D |
|-----|------|---------------------------|----|--------|
|     |      |                           |    |        |

TOPOGRAPHIC SURVEY PREPARED BY: FOR SURVEYOR  
INFORMATION SEE SURVEY SET SU100 DRAWINGS SERIES

FINAL DESIGN SUBMITTED BY:  
**AKRF KSE**  
The AKRF-KSE JV

FINAL DESIGN PREPARED BY:  
**ch2m**  
CH2M HILL NEW YORK, INC.  
NAME OF CONSULTANT

SIGNATURE \_\_\_\_\_  
DATE \_\_\_\_\_

CITY OF NEW YORK  
DEPARTMENT OF DESIGN + CONSTRUCTION  
DIVISION OF INFRASTRUCTURE  
BUREAU OF DESIGN

FLOODWALL STRUCTURAL PLAN  
SEGMENT 4 - REACH M  
STA. 106+51 - 113+69

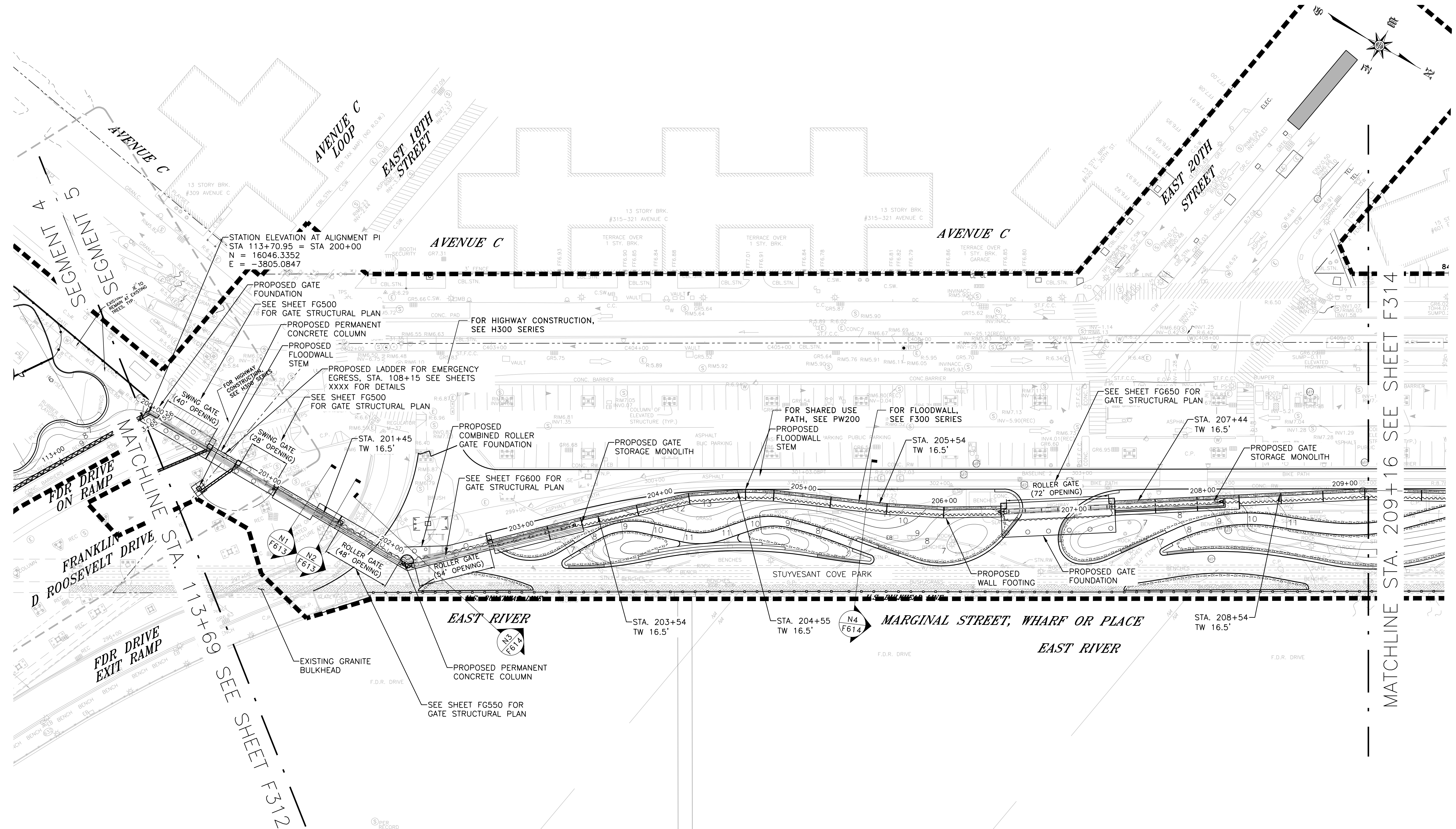
CH2M DRAWN BY \_\_\_\_\_ SANDRESM1-F312-00.DWG  
CADD FILE

INSTALLATION OF  
EAST SIDE COASTAL RESILIENCY  
BOROUGH OF MANHATTAN

CAPITAL PROJECT NO. SANDRESM1 7/18/2019 SHEET 357 OF 1594 F312



REVISED MASS MAILING #1 SUBMISSION 7/18/2019



**LEGEND:**  
 - - - - - LIMITS OF WORK  
 [Grey Box] JET GROUT ZONE

- NOTES:**
1. ALL ITEMS CALLED OUT AS EXISTING ARE TO REMAIN UNLESS NOTED OTHERWISE.
  2. REFER TO SHEETS PW300-PW315 FOR SHARED USE PATH PLAN.
  3. REFER TO SHEETS LG300-LG315 FOR SITE PLAN AND GRADING.
  4. REFER TO SHEETS LL300-LL315 FOR LAYOUT PLAN.
  5. REFER TO SHEETS LM300-LM315 FOR MATERIALS PLAN.
  6. REFER TO SHEETS LP300-LP315 FOR PLANTING PLAN.
  7. REFER TO SHEETS LS300-LS315 FOR SOILS PLAN.
  8. REFER TO SHEETS E300-E302 FOR ELECTRICAL PLAN.
  9. REFER TO SHEETS P300-P313 FOR PLUMBING PLAN.

**PRELIMINARY**

SUBMITTED DATE: 7/18/2019

0 15 30 60  
SCALE: 1" = 30'

TOPOGRAPHIC SURVEY PREPARED BY: FOR SURVEYOR INFORMATION SEE SURVEY SET SU100 DRAWINGS SERIES

FINAL DESIGN SUBMITTED BY:  
**AKRF KSE**  
 The AKRF-KSE JV

FINAL DESIGN PREPARED BY:  
**ARCADIS**  
 ARCADIS OF NEW YORK, INC.  
 NAME OF CONSULTANT

SIGNATURE \_\_\_\_\_  
 DATE \_\_\_\_\_

CITY OF NEW YORK  
 DEPARTMENT OF DESIGN + CONSTRUCTION  
 DIVISION OF INFRASTRUCTURE  
 BUREAU OF DESIGN

**FLOODWALL STRUCTURAL PLAN**  
 SEGMENT 5 - REACH N  
 STA. 113+69 - 209+16

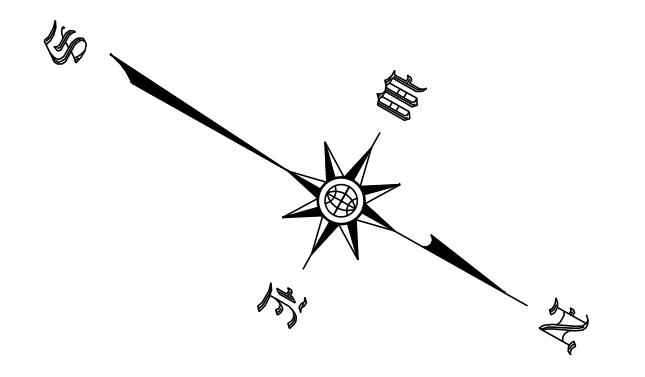
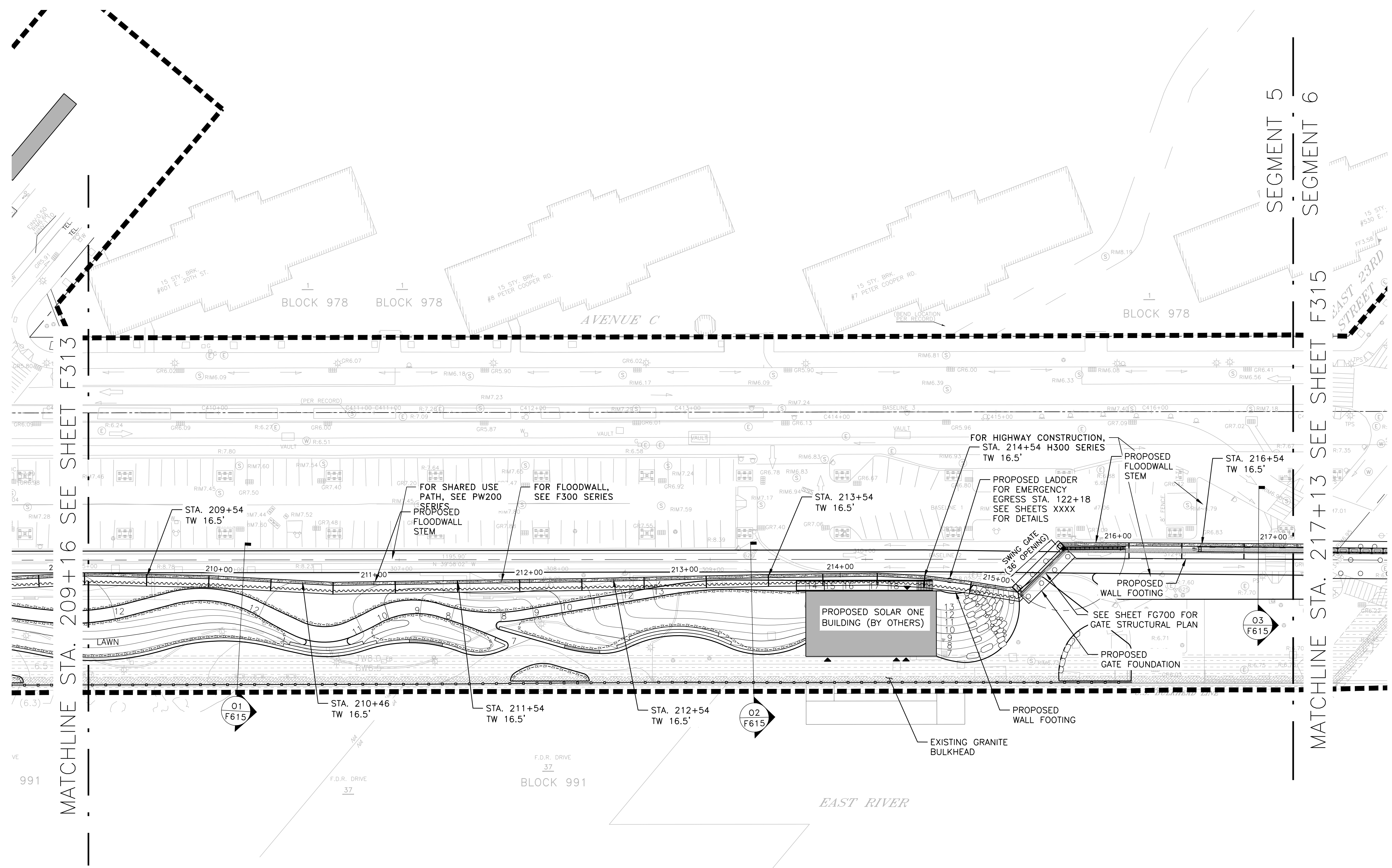
ARCADIS DRAWN BY \_\_\_\_\_ SANDRESM1-F313-00.DWG  
 CADD FILE

| NO. | DATE | DESCRIPTIONS<br>REVISIONS | BY | APPR'D |
|-----|------|---------------------------|----|--------|
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CAPITAL PROJECT NO. SANDRESM1 7/18/2019    SHEET 358 OF 1594    F313



REVISED MASS MAILING #1 SUBMISSION 7/18/2019



MATCHLINE STA. 209+16 SEE SHEET F313

SEGMENT 5  
SEGMENT 6

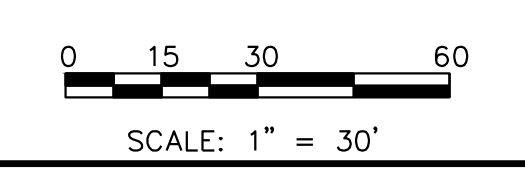
MATCHLINE STA. 217+13 SEE SHEET F315

**LEGEND:**  
 --- LIMITS OF WORK  
 [Grey Box] JET GROUT ZONE

**NOTES:**

1. ALL ITEMS CALLED OUT AS EXISTING ARE TO REMAIN UNLESS NOTED OTHERWISE.
2. REFER TO SHEETS PW300-PW315 FOR SHARED USE PATH PLAN.
3. REFER TO SHEETS LG300-LG315 FOR SITE PLAN AND GRADING.
4. REFER TO SHEETS LL300-LL315 FOR LAYOUT PLAN.
5. REFER TO SHEETS LM300-LM315 FOR MATERIALS PLAN.
6. REFER TO SHEETS LP300-LP315 FOR PLANTING PLAN.
7. REFER TO SHEETS LS300-LS315 FOR SOILS PLAN.
8. REFER TO SHEETS E300-E302 FOR ELECTRICAL PLAN.
9. REFER TO SHEETS P300-P313 FOR PLUMBING PLAN.

**PRELIMINARY**  
 SUBMITTED DATE: 7/18/2019



TOPOGRAPHIC SURVEY PREPARED BY: FOR SURVEYOR INFORMATION SEE SURVEY SET SU100 DRAWINGS SERIES

FINAL DESIGN SUBMITTED BY:  
**AKRF KSE**  
 The AKRF-KSE JV

FINAL DESIGN PREPARED BY:  
**ARCADIS**  
 ARCADIS OF NEW YORK, INC.  
 NAME OF CONSULTANT  
 SIGNATURE \_\_\_\_\_  
 DATE \_\_\_\_\_

CITY OF NEW YORK  
 DEPARTMENT OF DESIGN + CONSTRUCTION  
 DIVISION OF INFRASTRUCTURE  
 BUREAU OF DESIGN

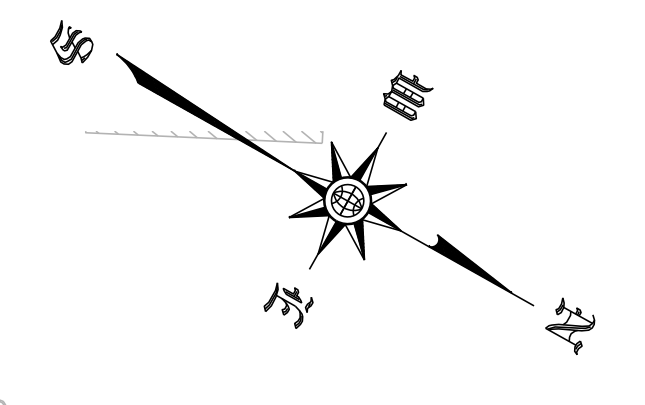
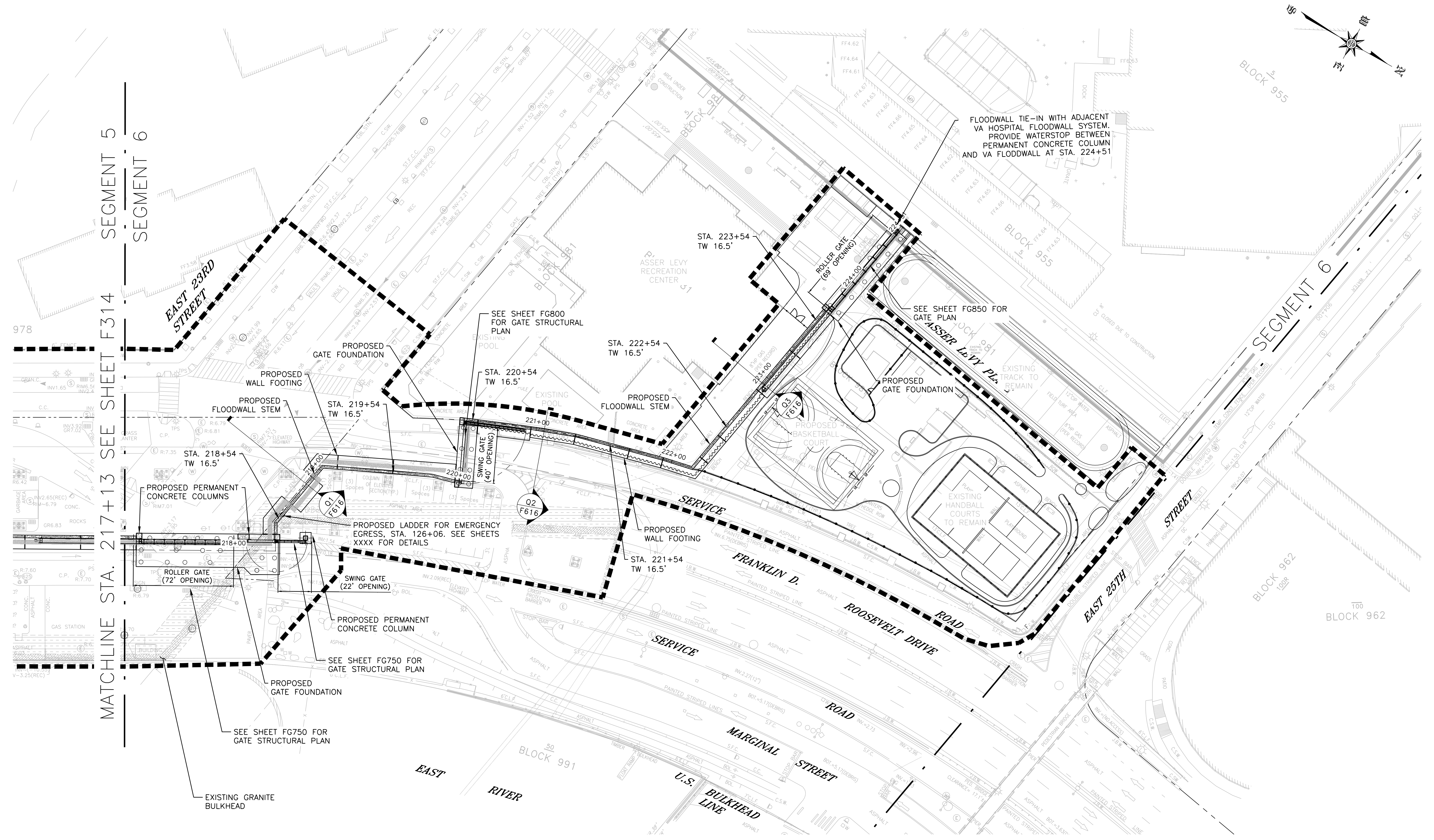
FLOODWALL STRUCTURAL PLAN  
 SEGMENT 5 - REACH 0  
 STA. 209+16 - 217+13  
 ARCADIS DRAWN BY \_\_\_\_\_ SANDRESM1-F314-00.DWG  
 CADD FILE

| NO. | DATE | DESCRIPTIONS | BY | APPR'D |
|-----|------|--------------|----|--------|
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CAPITAL PROJECT NO. SANDRESM1 7/18/2019 SHEET 359 OF 1594 F314



REVISED MASS MAILING #1 SUBMISSION 7/18/2019

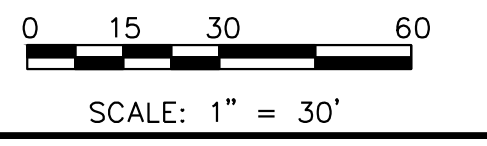


**LEGEND:**  
 - - - - - LIMITS OF WORK  
 [Grey Box] JET GROUT ZONE

**NOTES:**

1. ALL ITEMS CALLED OUT AS EXISTING ARE TO REMAIN UNLESS NOTED OTHERWISE.
2. REFER TO SHEETS PW300-PW315 FOR SHARED USE PATH PLAN.
3. REFER TO SHEETS LG300-LG315 FOR SITE PLAN AND GRADING.
4. REFER TO SHEETS LL300-LL315 FOR LAYOUT PLAN.
5. REFER TO SHEETS LM300-LM315 FOR MATERIALS PLAN.
6. REFER TO SHEETS LP300-LP315 FOR PLANTING PLAN.
7. REFER TO SHEETS LS300-LS315 FOR SOILS PLAN.
8. REFER TO SHEETS E300-E302 FOR ELECTRICAL PLAN.
9. REFER TO SHEETS P300-P313 FOR PLUMBING PLAN.

**PRELIMINARY**  
 SUBMITTED DATE: 7/18/2019



TOPOGRAPHIC SURVEY PREPARED BY: FOR SURVEYOR INFORMATION SEE SURVEY SET SU100 DRAWINGS SERIES

FINAL DESIGN SUBMITTED BY:  
**AKRF KSE**  
 The AKRF-KSE JV

FINAL DESIGN PREPARED BY:  
**ARCADIS**  
 ARCADIS OF NEW YORK, INC.  
 NAME OF CONSULTANT

SIGNATURE \_\_\_\_\_  
 DATE \_\_\_\_\_

CITY OF NEW YORK  
 DEPARTMENT OF DESIGN + CONSTRUCTION  
 DIVISION OF INFRASTRUCTURE  
 BUREAU OF DESIGN

FLOODWALL STRUCTURAL PLAN  
 SEGMENT 6 - REACH Q  
 STA. 217+13 - 224+51  
 ARCADIS DRAWN BY \_\_\_\_\_ SANDRESM1-F315-00.DWG  
 CADD FILE

| NO. | DATE | DESCRIPTIONS | BY | APPR'D |
|-----|------|--------------|----|--------|
|     |      |              |    |        |
|     |      |              |    |        |

INSTALLATION OF  
 EAST SIDE COASTAL RESILIENCY  
 BOROUGH OF MANHATTAN

CAPITAL PROJECT NO. SANDRESM1 7/18/2019 SHEET 360 OF 1594 F315