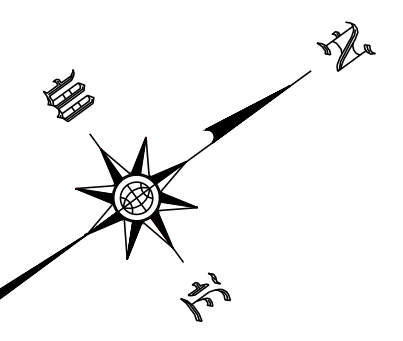
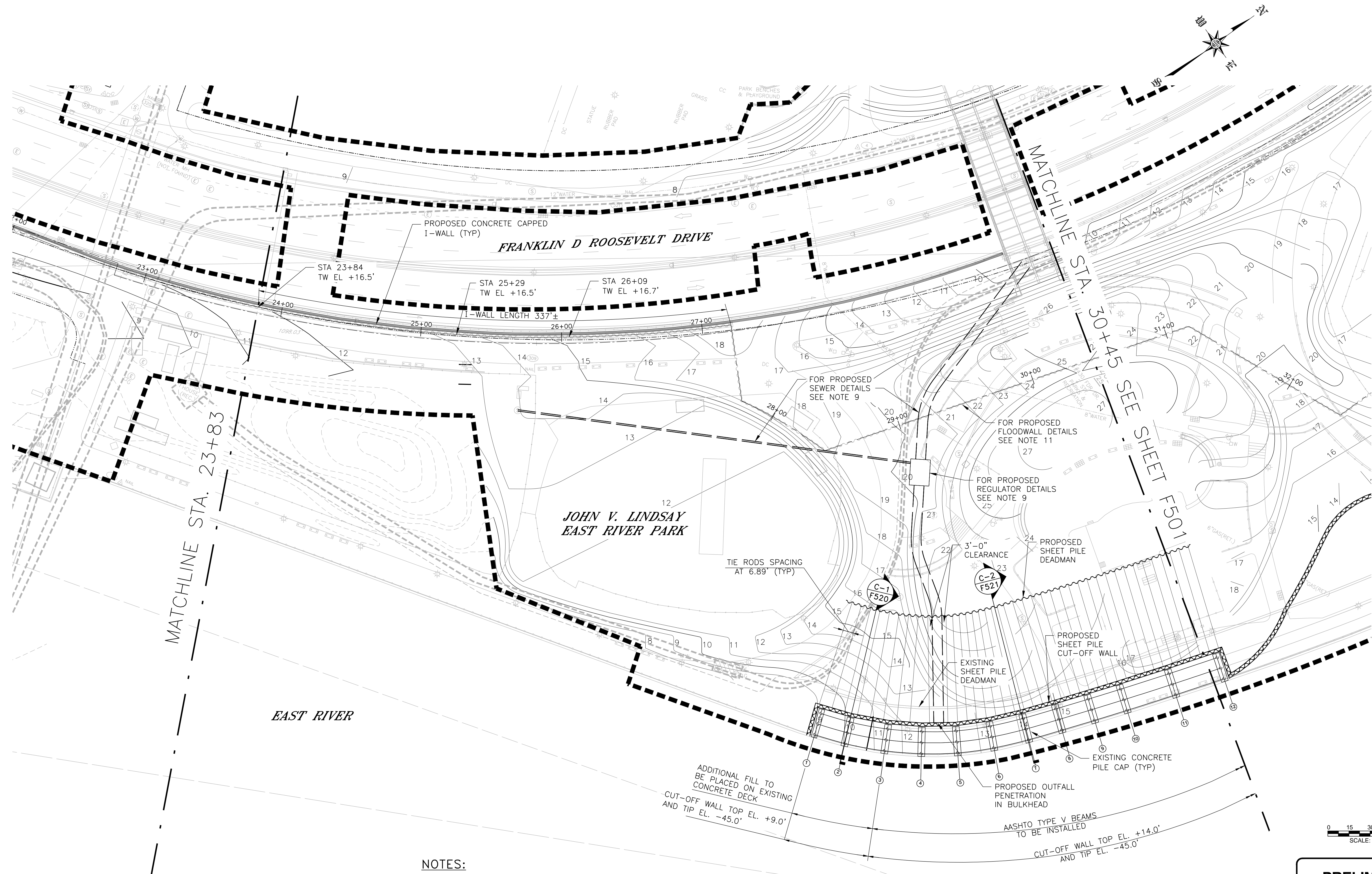


Appendix C1e
Preferred Alternative - Esplanade Structural Plan
and Cross Sections

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REVISED MASS MAILING # 1 SUBMISSION 7/18/2019



MATCHLINE STA. 23+83

MATCHLINE STA. 30+45

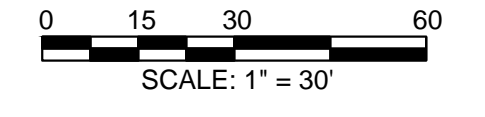
SEE SHEET F501

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 FOR SITE PLAN AND GRADING.
4. REFER TO SHEETS LL300-LL315 FOR LAYOUT PLAN.
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6. REFER TO SHEETS LP300-LP315 FOR PLANTING PLAN.
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11. REFER TO SHEET F302-F309 FOR FLOODWALL PLAN.

LEGEND:

- LIMITS OF WORK
- PROPOSED COMB. SEWER



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

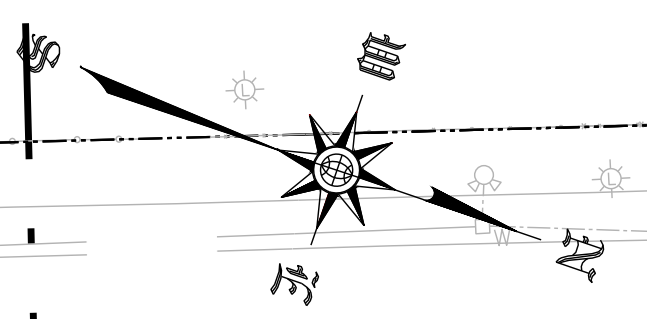
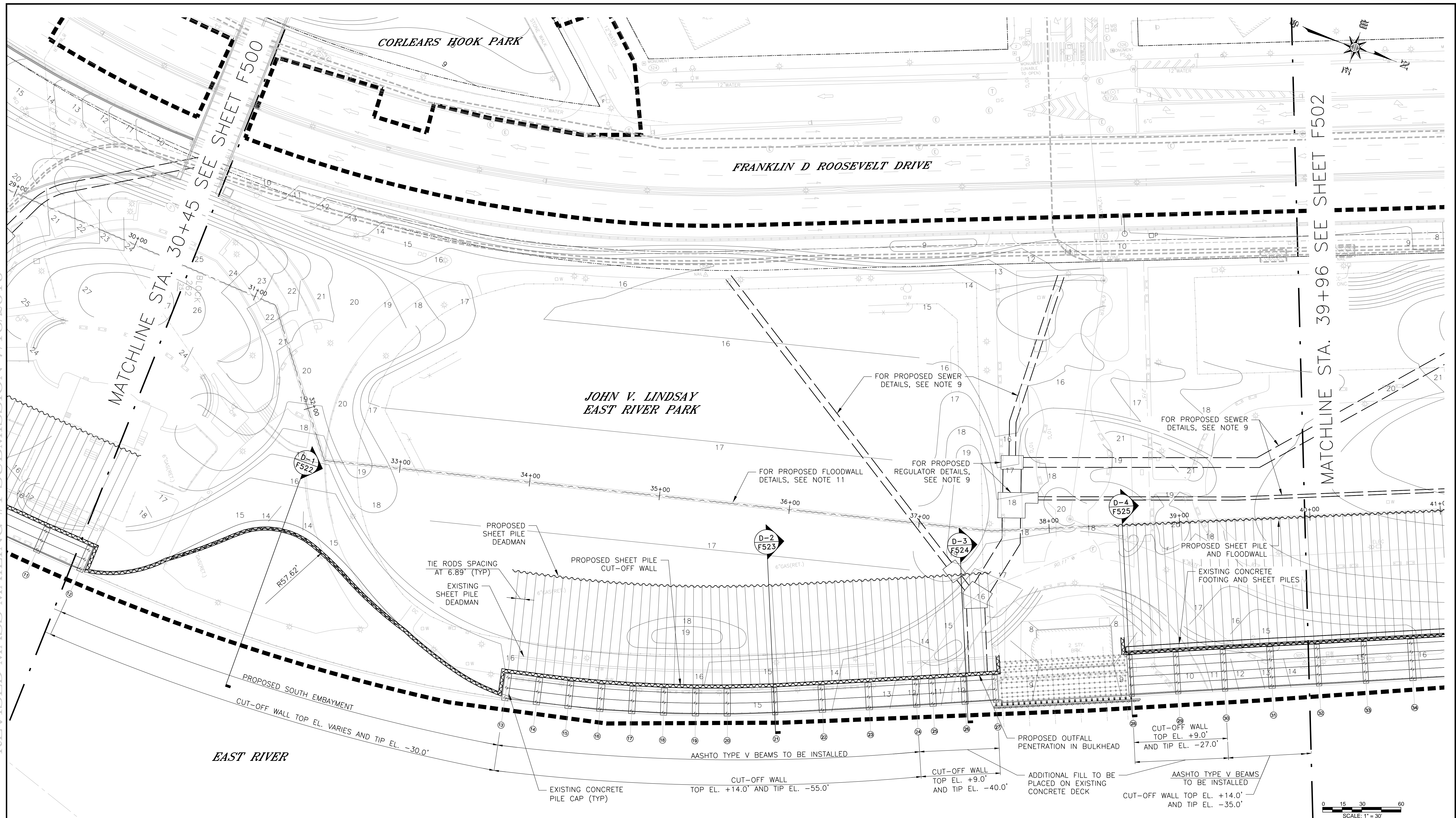
ESPLANADE STRUCTURAL PLAN
SEGMENT 1 - REACH C
STA. 23+83 - 30+45
CH2M DRAWN BY _____ SANDRESM1-F500-00.DWG
CADD FILE

NO.	DATE	DESCRIPTIONS REVISIONS	BY	APPR'D

INSTALLATION OF
EAST SIDE COASTAL RESILIENCY
BOROUGH OF MANHATTAN

CAPITAL PROJECT NO. SANDRESM1 7/18/2019 SHEET 377 OF 1594 F500

REVISED MASS MAILING #1 SUBMISSION 7/18/2019



MATCHLINE STA. 30+45 SEE SHEET F500

MATCHLINE STA. 39+96 SEE SHEET F502

LEGEND:

- LIMITS OF WORK
- PROPOSED COMB. SEWER

NOTE:

1. FOR NOTES, REFER TO SHEET F500.

PRELIMINARY

SUBMITTED DATE: 7/18/2019



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DATE _____

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BUREAU OF DESIGN

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

CH2M
DRAWN BY _____

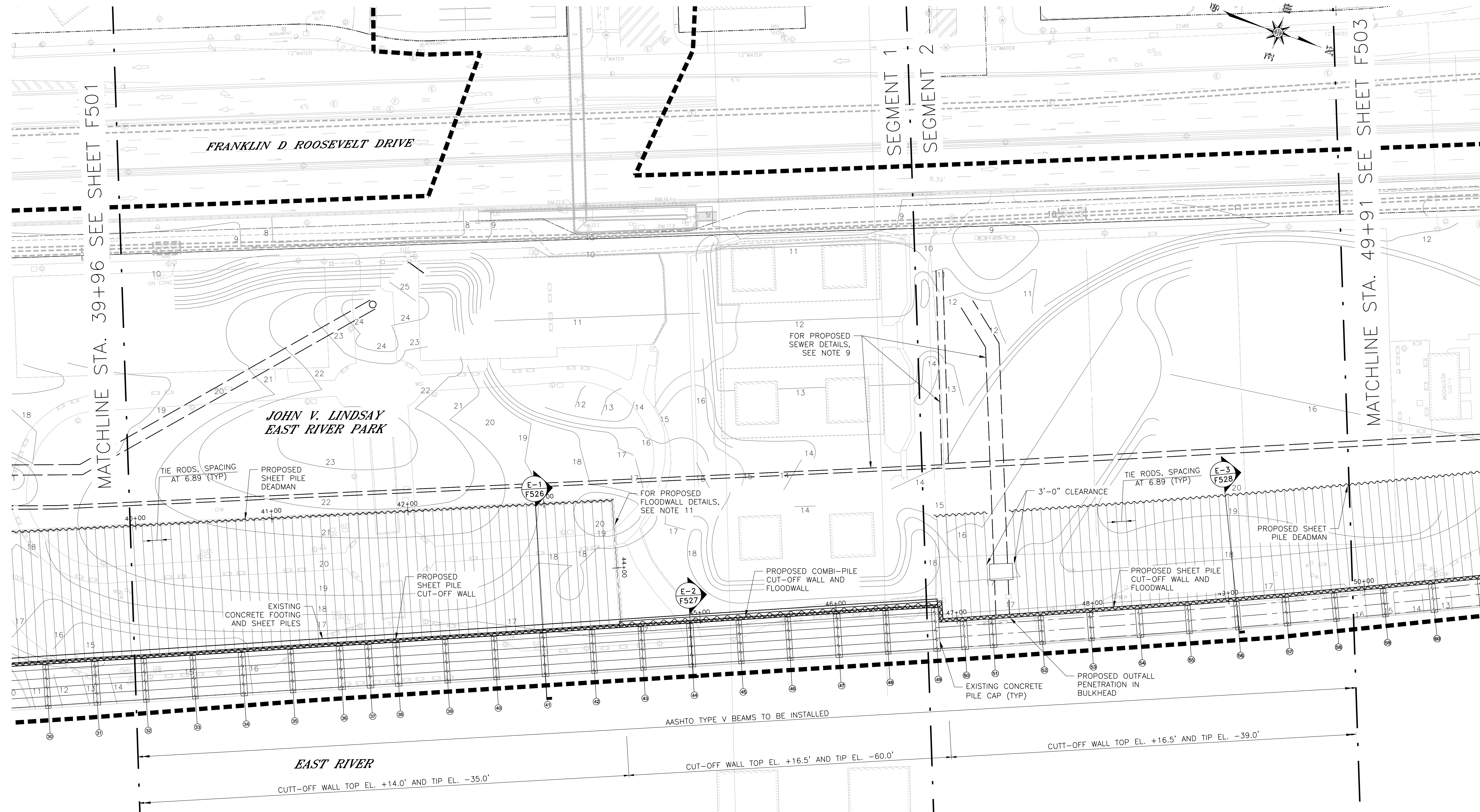
SANDRESM1-F501-00.DWG
CADD FILE

INSTALLATION OF
EAST SIDE COASTAL RESILIENCY
BOROUGH OF MANHATTAN

NO.	DATE	DESCRIPTIONS REVISIONS	BY	APPR'D

CAPITAL PROJECT NO. SANDRESM1 7/18/2019 SHEET 378 OF 1594 F501

REVISED MASS MAILING #1 SUBMISSION 7/18/2019

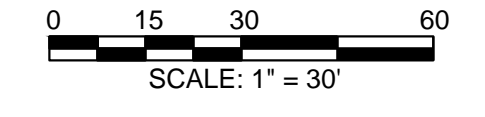


MATCHLINE STA. 39+96 SEE SHEET F501

MATCHLINE STA. 49+91 SEE SHEET F503

- LEGEND:**
- LIMITS OF WORK
 - PROPOSED COMB. SEWER

NOTE:
1. FOR NOTES, REFER TO SHEET F500.



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 _____

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

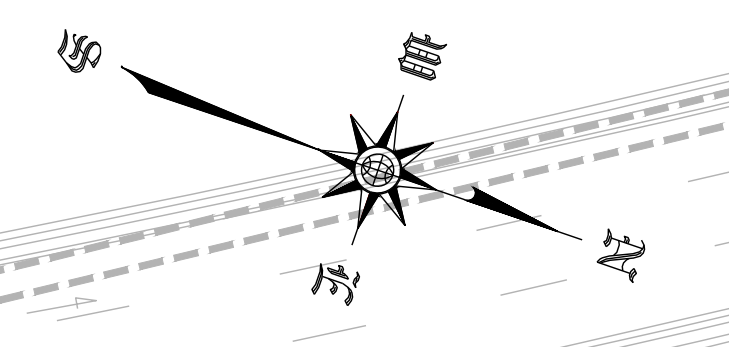
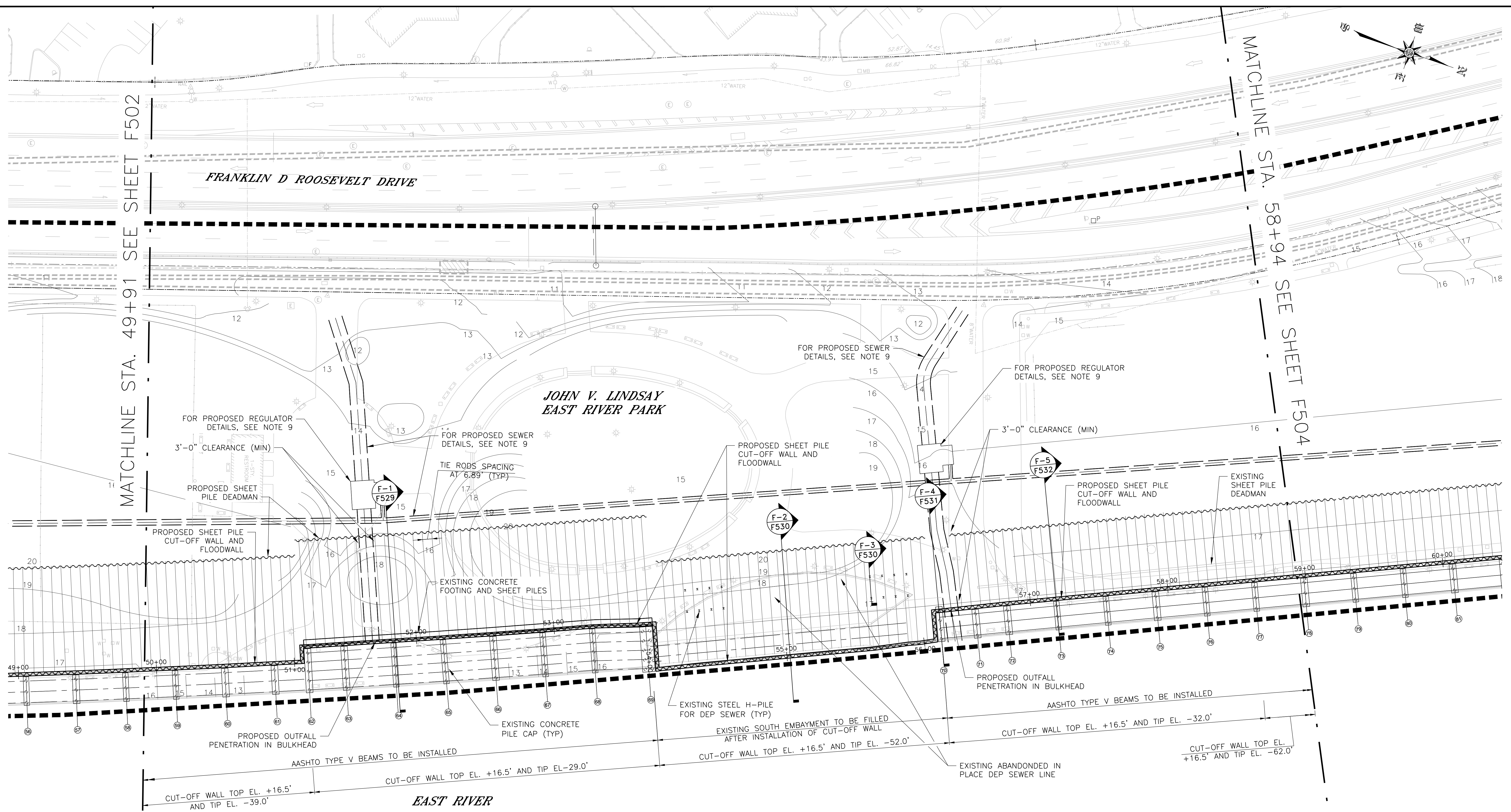
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SANDRESM1-F502-00.DWG
CADD FILE

NO.	DATE	DESCRIPTIONS REVISIONS	BY	APPR'D

INSTALLATION OF
EAST SIDE COASTAL RESILIENCY
BOROUGH OF MANHATTAN

CAPITAL PROJECT NO. SANDRESM1 7/18/2019 SHEET 379 OF 1594 F502

REVISED MASS MAILING #1 SUBMISSION 7/18/2019



MATCHLINE STA. 49+91 SEE SHEET F502

MATCHLINE STA. 58+94 SEE SHEET F504

LEGEND:
 --- LIMITS OF WORK
 --- PROPOSED COMB. SEWER

NOTE:
 1. FOR NOTES, REFER TO SHEET F500.

0 15 30 60
 SCALE: 1" = 30'

PRELIMINARY
 SUBMITTED DATE: 7/18/2019

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

FINAL DESIGN SUBMITTED BY:
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 The AKRF-KSE JV

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

SIGNATURE _____
 DATE _____

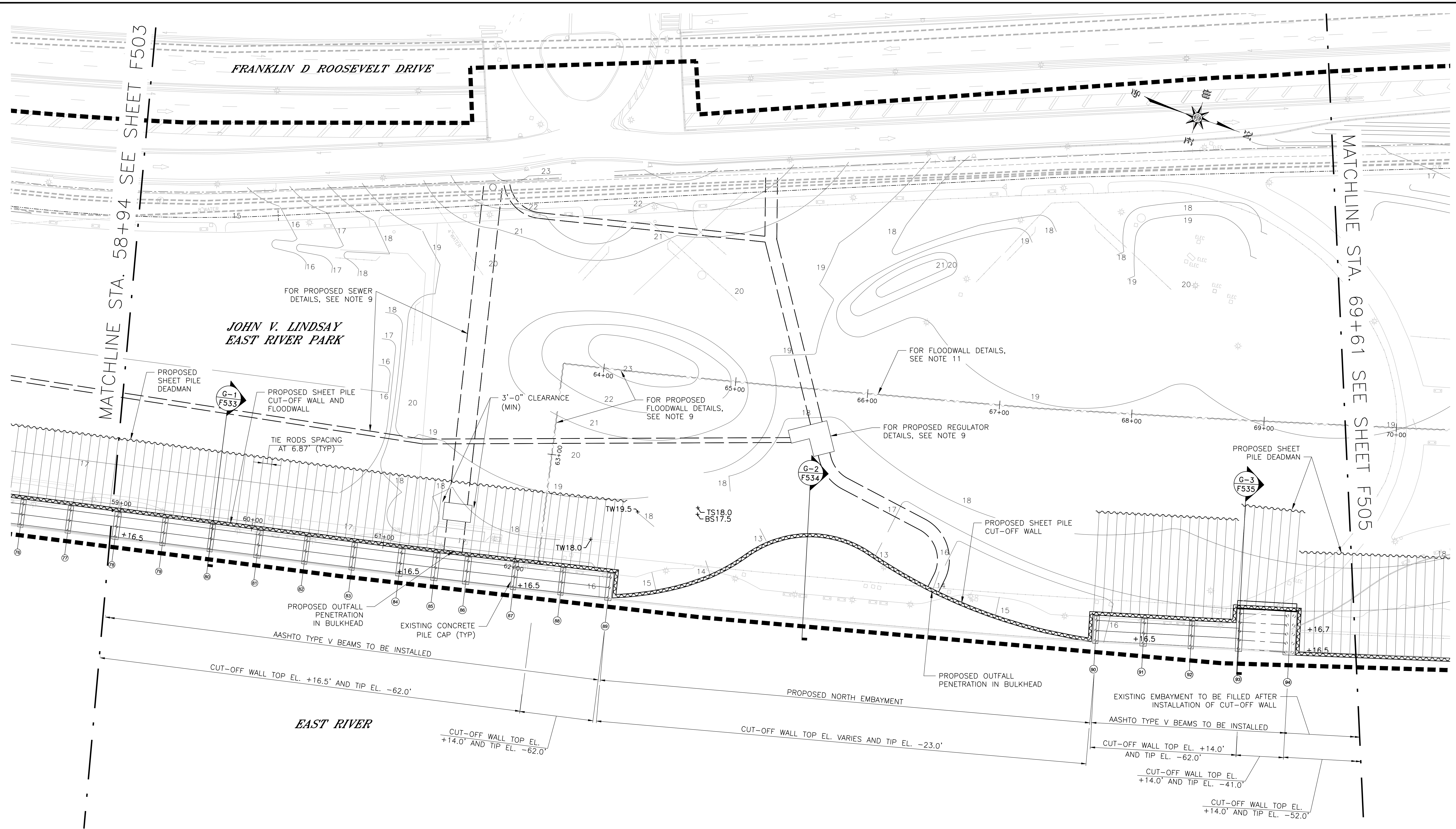
CITY OF NEW YORK
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ESPLANADE STRUCTURAL PLAN
 SEGMENT 2 - REACH F
 STA. 49+91 - 58+94
 CH2M DRAWN BY _____
 SANDRESM1-F503-00.DWG
 CADD FILE

NO.	DATE	DESCRIPTIONS REVISIONS	BY	APPR'D

CAPITAL PROJECT NO. SANDRESM1 7/18/2019 SHEET 380 OF 1594 F503

REVISED MASS MAILING #1 SUBMISSION 7/18/2019



MATCHLINE STA. 58+94 SEE SHEET F503

MATCHLINE STA. 69+61 SEE SHEET F505

JOHN V. LINDSAY
EAST RIVER PARK

FOR PROPOSED SEWER
DETAILS, SEE NOTE 9

FOR FLOODWALL DETAILS,
SEE NOTE 11

FOR PROPOSED FLOODWALL
DETAILS, SEE NOTE 9

FOR PROPOSED REGULATOR
DETAILS, SEE NOTE 9

PROPOSED SHEET PILE
DEADMAN

PROPOSED SHEET PILE
CUT-OFF WALL AND
FLOODWALL

TIE RODS SPACING
AT 6.87' (TYP)

3'-0" CLEARANCE
(MIN)

PROPOSED SHEET PILE
DEADMAN

PROPOSED OUTFALL
PENETRATION
IN BULKHEAD

EXISTING CONCRETE
PILE CAP (TYP)

AASHTO TYPE V BEAMS TO BE INSTALLED

PROPOSED OUTFALL
PENETRATION IN BULKHEAD

EXISTING EMBAYMENT TO BE FILLED AFTER
INSTALLATION OF CUT-OFF WALL

AASHTO TYPE V BEAMS TO BE INSTALLED

CUT-OFF WALL TOP EL. +14.0'
AND TIP EL. -62.0'

CUT-OFF WALL TOP EL.
+14.0' AND TIP EL. -41.0'

CUT-OFF WALL TOP EL.
+14.0' AND TIP EL. -52.0'

EAST RIVER

CUT-OFF WALL TOP EL.
+14.0' AND TIP EL. -62.0'

PROPOSED NORTH EMBAYMENT

CUT-OFF WALL TOP EL. VARIES AND TIP EL. -23.0'

- LEGEND:**
- LIMITS OF WORK
 - PROPOSED COMB. SEWER

- NOTE:**
1. FOR NOTES, REFER TO SHEET F500.



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

ESPLANADE STRUCTURAL PLAN
SEGMENT 2 - REACH G
STA. 58+94 - 69+61

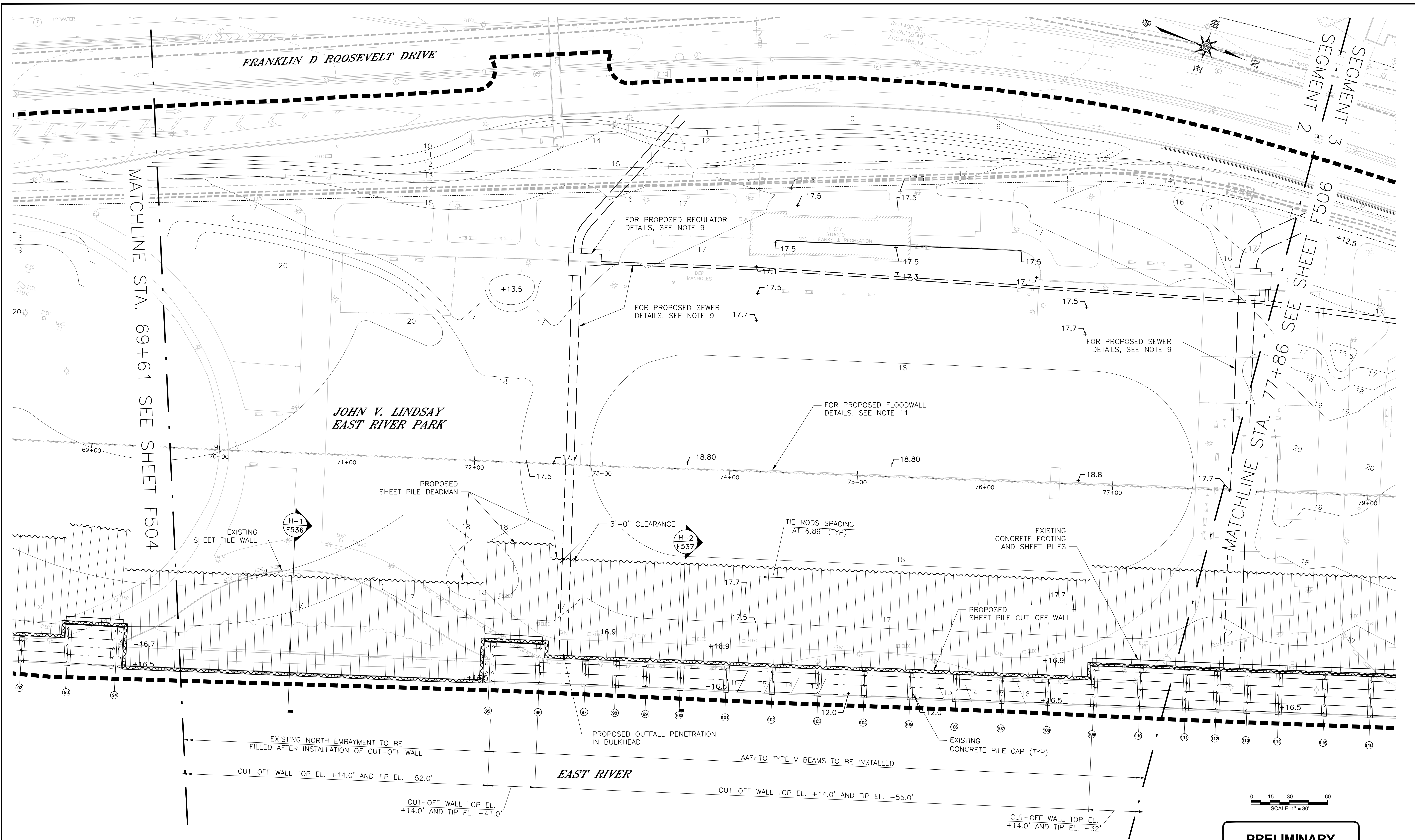
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CADD FILE

NO.	DATE	DESCRIPTIONS REVISIONS	BY	APPR'D

INSTALLATION OF
EAST SIDE COASTAL RESILIENCY
BOROUGH OF MANHATTAN

CAPITAL PROJECT NO. SANDRESM1 7/18/2019 SHEET 381 OF 1594 F504

REVISED MASS MAILING #1 SUBMISSION 7/18/2019



0 15 30 60
SCALE: 1" = 30'

PRELIMINARY
SUBMITTED DATE: 7/18/2019

LEGEND:

— — — — — LIMITS OF WORK

— — — — — PROPOSED COMB. SEWER

NOTE:

1. FOR NOTES, REFER TO SHEET F500.

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

FINAL DESIGN SUBMITTED BY:
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FINAL DESIGN PREPARED BY:
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NAME OF CONSULTANT

SIGNATURE _____
DATE _____

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BUREAU OF DESIGN

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

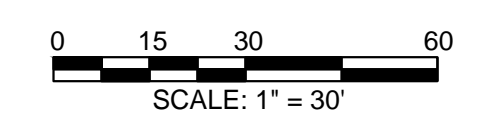
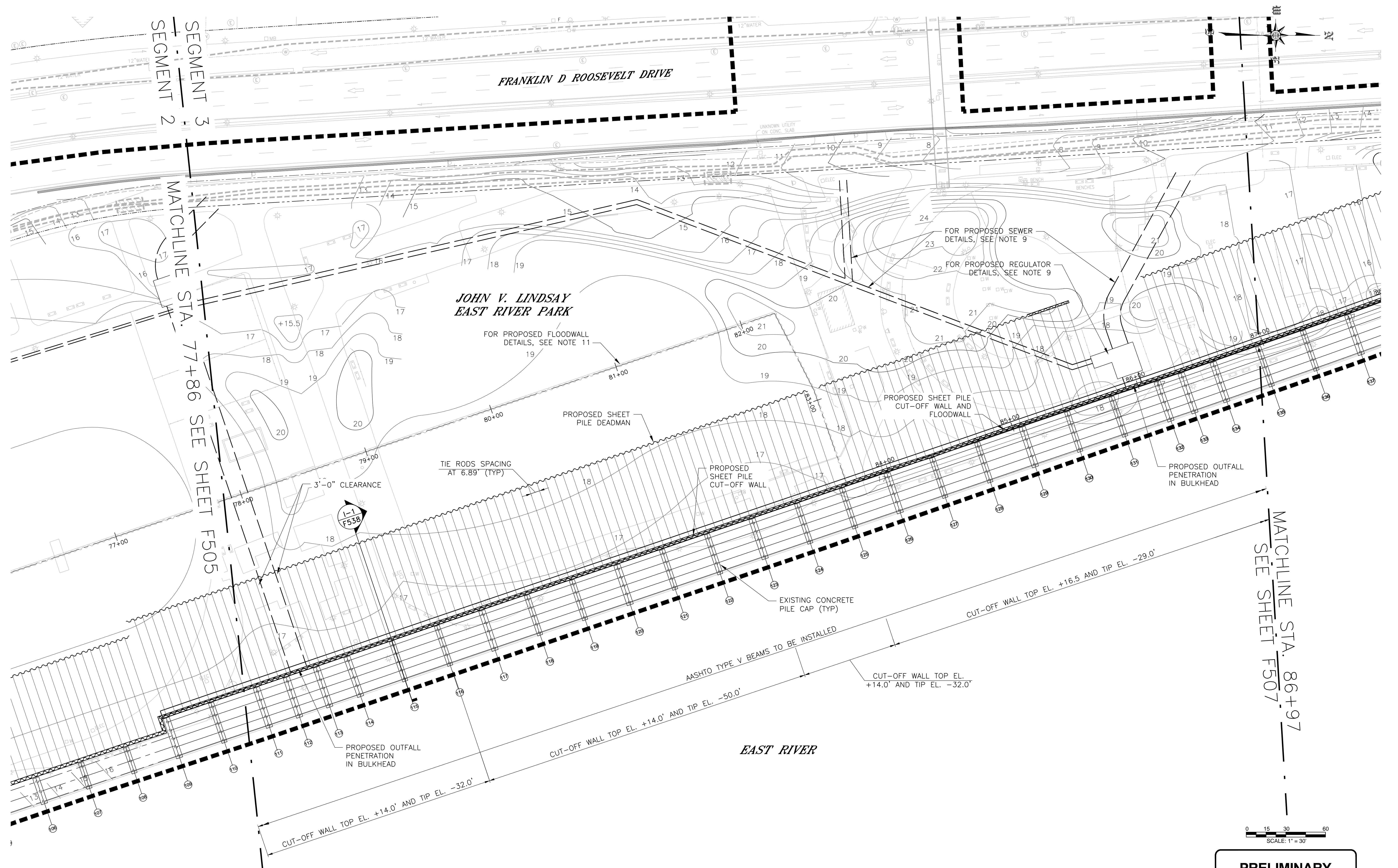
CH2M DRAWN BY _____
SANDRESM1-F505-00.DWG
CADD FILE

INSTALLATION OF
EAST SIDE COASTAL RESILIENCY
BOROUGH OF MANHATTAN

NO.	DATE	DESCRIPTIONS REVISIONS	BY	APPR'D

CAPITAL PROJECT NO. SANDRESM1 7/18/2019 SHEET 382 OF 1594 F505

REVISED MASS MAILING #1 SUBMISSION 7/18/2019



PRELIMINARY
SUBMITTED DATE: 7/18/2019

LEGEND:
 - - - - - LIMITS OF WORK
 - - - - - PROPOSED COMB. SEWER

NOTE:
 1. FOR NOTES, REFER TO SHEET F500.

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:
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 CH2M HILL NEW YORK, INC.
 NAME OF CONSULTANT

SIGNATURE _____
 DATE _____

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 BUREAU OF DESIGN

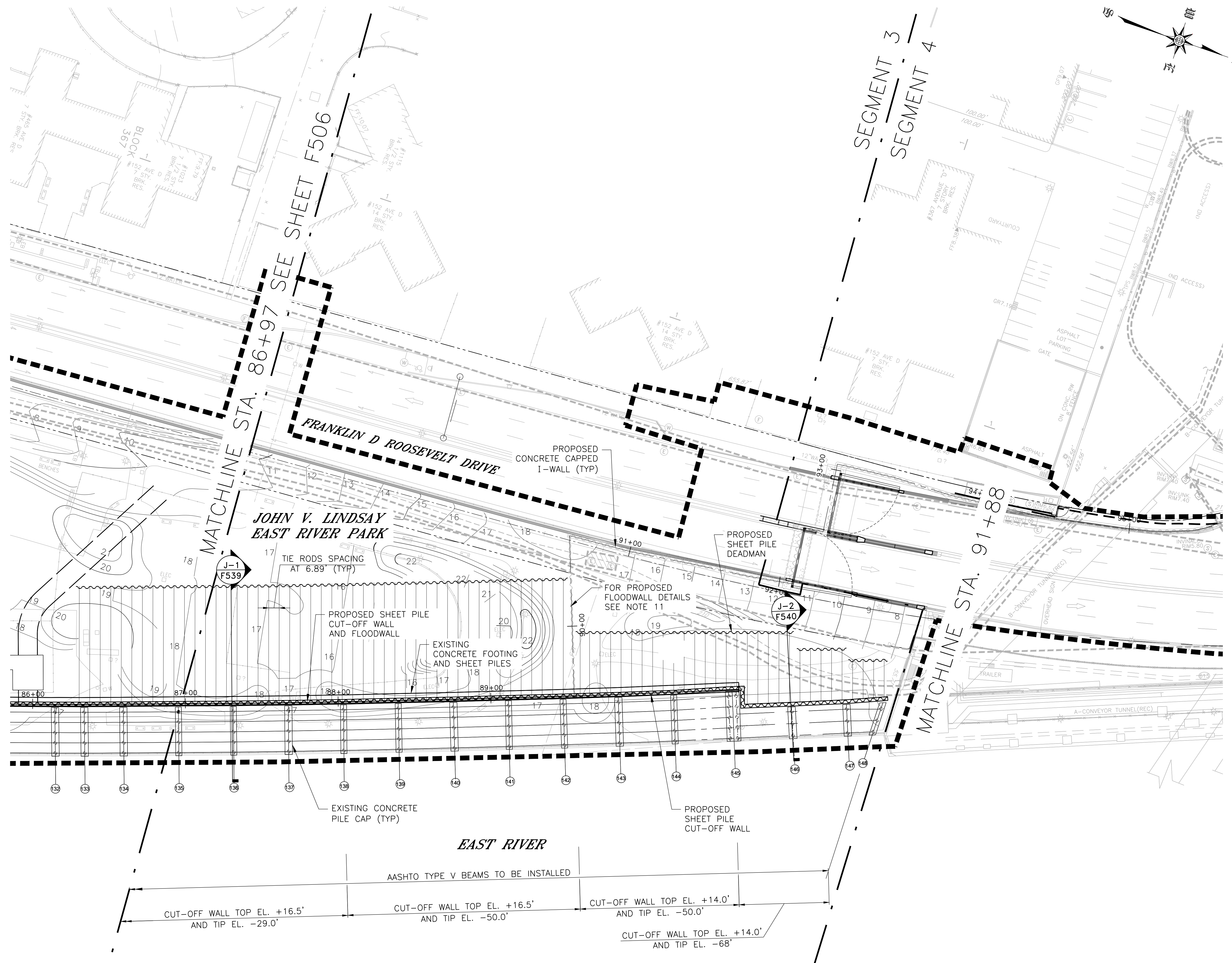
ESPLANADE STRUCTURAL PLAN
 SEGMENT 3 - REACH I
 STA. 77+86 - 86+97
 CH2M DRAWN BY _____
 SANDRESM1-F506-00.DWG
 CADD FILE

NO.	DATE	DESCRIPTIONS REVISIONS	BY	APPR'D

INSTALLATION OF
 EAST SIDE COASTAL RESILIENCY
 BOROUGH OF MANHATTAN

CAPITAL PROJECT NO. SANDRESM1 7/18/2019 SHEET 383 OF 1594 F506

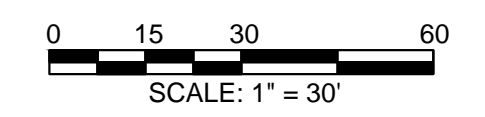
REVISED MASS MAILING #1 SUBMISSION 7/18/2019



- LEGEND:**
- LIMITS OF WORK
 - PROPOSED COMB. SEWER

NOTE:

1. FOR NOTES, REFER TO SHEET F500.



PRELIMINARY
SUBMITTED DATE: 7/18/2019

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

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The AKRF-KSE JV

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

SIGNATURE _____
DATE _____

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BUREAU OF DESIGN

ESPLANADE STRUCTURAL PLAN
SEGMENT 3 - REACH J
STA. 86+97 - 91+88

CH2M DRAWN BY _____
SANDRESM1-F507-00.DWG
CADD FILE

NO.	DATE	DESCRIPTIONS REVISIONS	BY	APPR'D

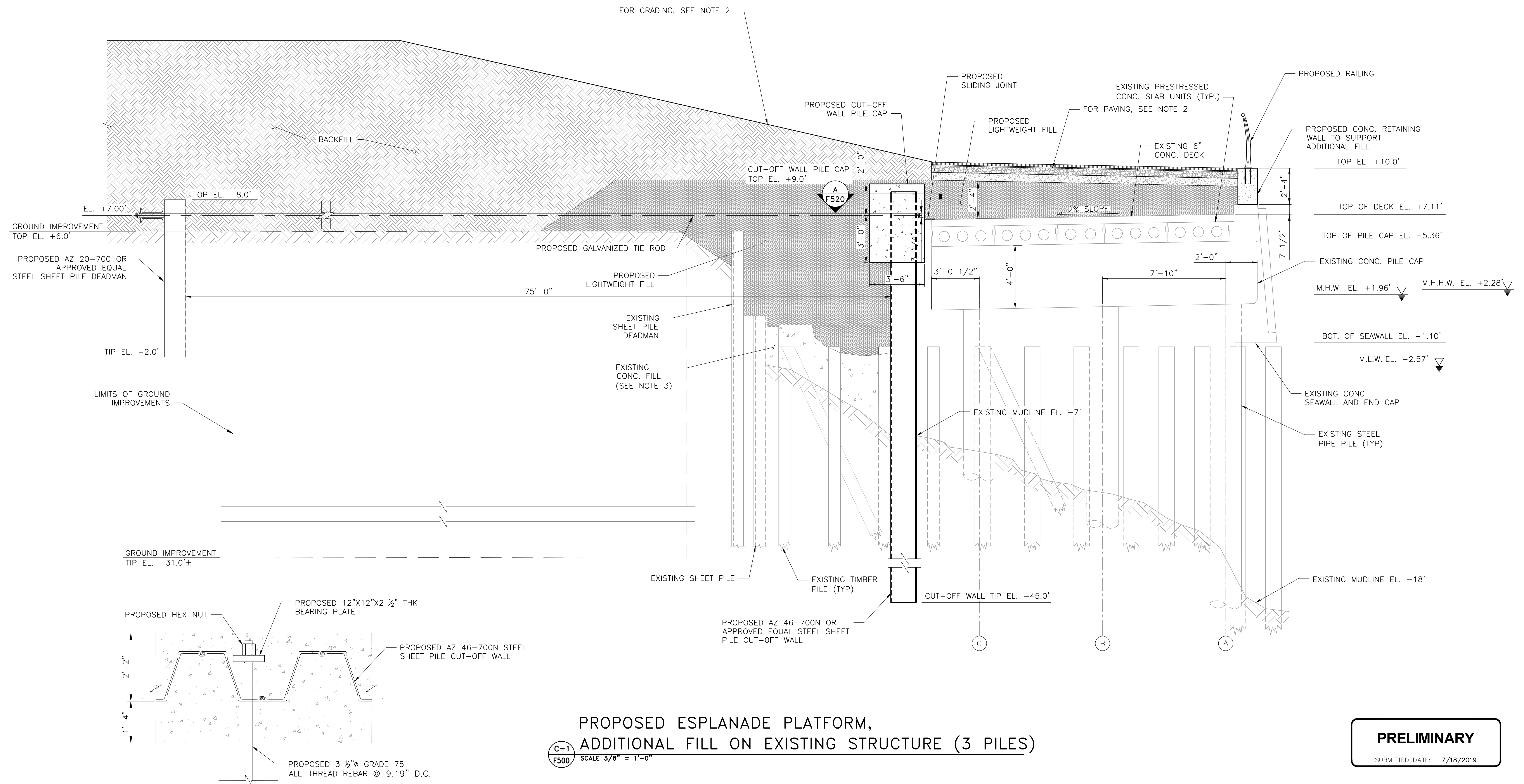
**INSTALLATION OF
EAST SIDE COASTAL RESILIENCY
BOROUGH OF MANHATTAN**

CAPITAL PROJECT NO. SANDRESM1 7/18/2019 SHEET 384 OF 1594 F507

REVISED MASS MAILING #1 SUBMISSION 7/18/2019

NOTES:

1. ALL ELEVATIONS IN NAVD88 DATUM.
2. REFER TO SHEETS LG300-LG315 FOR SITE PLAN AND GRADING.
3. EXTENT OF VOIDS IN CONCRETE FILL BEHIND CUT-OFF WALL VARIES. SOME AREAS CONTAIN PARTIAL CONCRETE FILL, WHILE OTHER AREAS HAVE NO EXISTING CONCRETE FILL.



**PROPOSED ESPLANADE PLATFORM,
ADDITIONAL FILL ON EXISTING STRUCTURE (3 PILES)**
C-1 SCALE 3/8" = 1'-0"

DETAIL A
SCALE 3/4" = 1'-0"

PRELIMINARY
SUBMITTED DATE: 7/18/2019

NO.	DATE	DESCRIPTIONS	BY	APPR'D

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:
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CH2M HILL NEW YORK, INC.
NAME OF CONSULTANT

SIGNATURE _____
DATE _____

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

ESPLANADE CROSS SECTIONS
SHEET 1 of 21
CH2M DRAWN BY _____
SANDRESM1-F520-00.DWG
CADD FILE

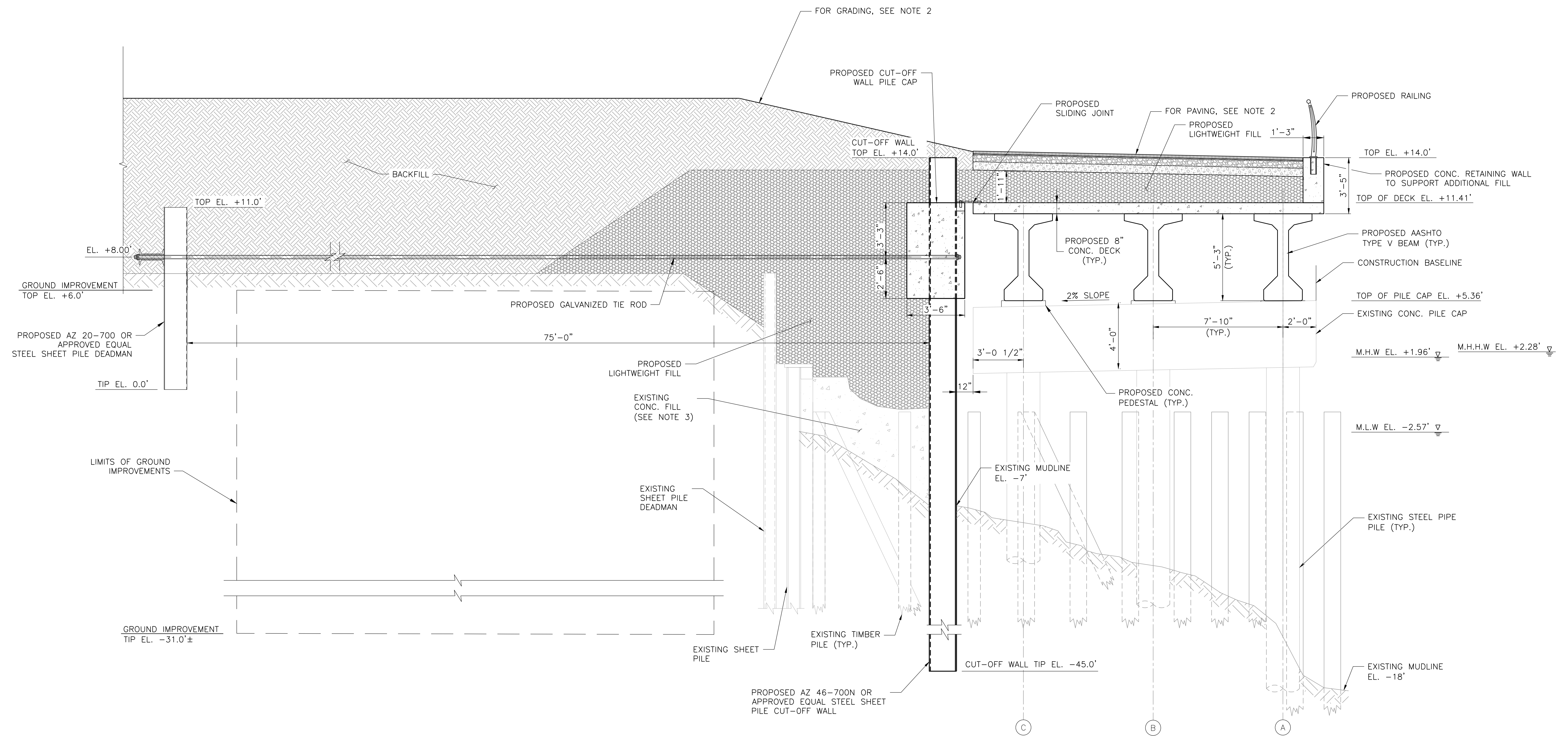
INSTALLATION OF
EAST SIDE COASTAL RESILIENCY
BOROUGH OF MANHATTAN

CAPITAL PROJECT NO. SANDRESM1 7/18/2019
SHEET 385 OF 1594
F520

REVISED MASS MAILING #1 SUBMISSION 7/18/2019

NOTES:

1. ALL ELEVATIONS IN NAVD88 DATUM.
2. REFER TO SHEETS LG300-LG315 FOR SITE PLAN AND GRADING.
3. EXTENT OF VOIDS IN CONCRETE FILL BEHIND CUT-OFF WALL VARIES. SOME AREAS CONTAIN PARTIAL CONCRETE FILL, WHILE OTHER AREAS HAVE NO EXISTING CONCRETE FILL.



**PROPOSED ESPLANADE PLATFORM,
PRESTRESSED CONCRETE BEAMS ON EXISTING STRUCTURE (3 PILES)**

C-2
F500 SCALE 3/8" = 1'-0"

PRELIMINARY
SUBMITTED DATE: 7/18/2019

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

FINAL DESIGN SUBMITTED BY:
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FINAL DESIGN PREPARED BY:
ch2m
CH2M HILL NEW YORK, INC.
NAME OF CONSULTANT
SIGNATURE _____
DATE _____

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DEPARTMENT OF DESIGN + CONSTRUCTION
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BUREAU OF DESIGN

ESPLANADE CROSS SECTIONS
SHEET 2 OF 21
CH2M DRAWN BY _____ SANDRESM1-F521-00.DWG
CADD FILE

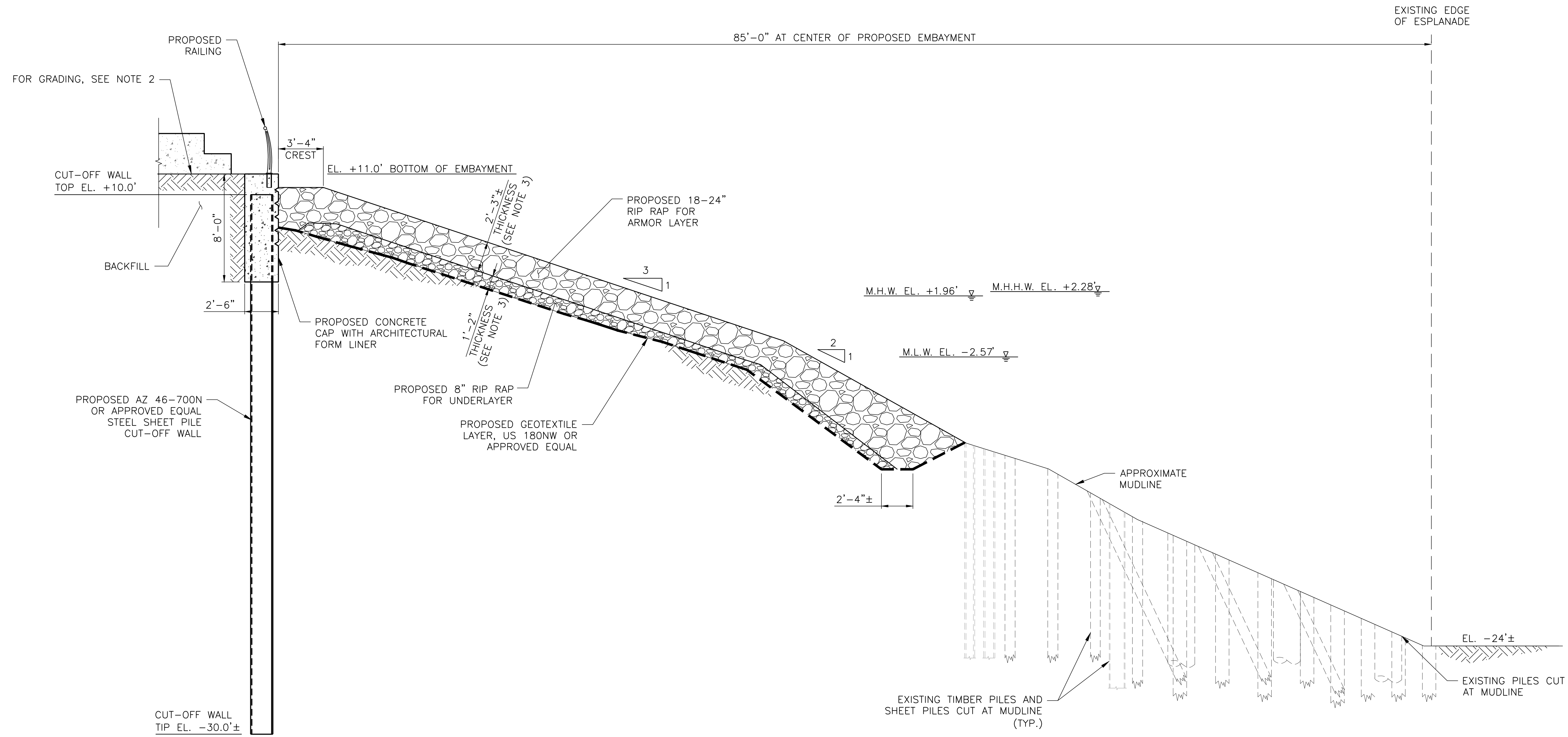
NO.	DATE	DESCRIPTIONS REVISIONS	BY	APPR'D

CAPITAL PROJECT NO. SANDRESM1 7/18/2019 SHEET 386 OF 1594 F521

REVISED MASS MAILING # 1 SUBMISSION 7/18/2019

NOTES:

1. ALL ELEVATIONS IN NAVD88 DATUM.
2. REFER TO SHEETS LG300-LG315 FOR SITE PLAN AND GRADING.
3. CONSTRUCTION TOLERANCES FOR RIP RAP LAYERS SHALL NOT EXCEED:
 ARMOR LAYER: +8" TO -8" DEVIATION FROM PROPOSED THICKNESS
 UNDER LAYER: +19" TO -12" DEVIATION FROM PROPOSED THICKNESS



D-1
F501 PROPOSED SOUTH EMBAYMENT SECTION
 SCALE 1/4" = 1'-0"

PRELIMINARY
 SUBMITTED DATE: 7/18/2019

NO.	DATE	DESCRIPTIONS	BY	APPR'D

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

ESPLANADE CROSS SECTIONS
 SHEET 3 OF 21

CH2M DRAWN BY _____ SANDRESM1-F522-00.DWG CADD FILE

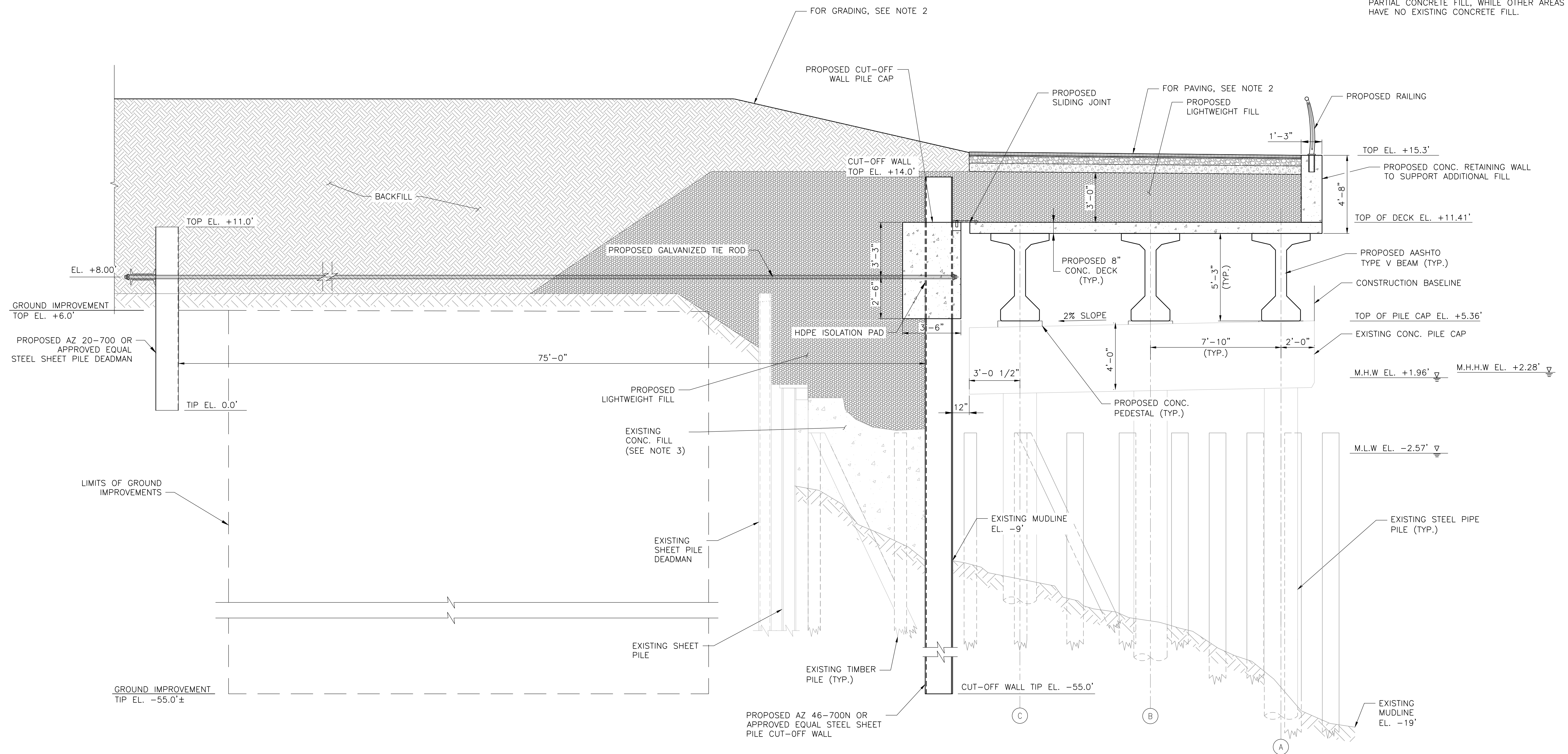
INSTALLATION OF
 EAST SIDE COASTAL RESILIENCY
 BOROUGH OF MANHATTAN

CAPITAL PROJECT NO. SANDRESM1 7/18/2019 SHEET 387 OF 1594 F522

REVISED MASS MAILING #1 SUBMISSION 7/18/2019

NOTES:

1. ALL ELEVATIONS IN NAVD88 DATUM.
2. REFER TO SHEETS LG300-LG315 FOR SITE PLAN AND GRADING.
3. EXTENT OF VOIDS IN CONCRETE FILL BEHIND CUT-OFF WALL VARIES. SOME AREAS CONTAIN PARTIAL CONCRETE FILL, WHILE OTHER AREAS HAVE NO EXISTING CONCRETE FILL.



**PROPOSED ESPLANADE PLATFORM,
PRESTRESSED CONCRETE BEAMS ON EXISTING STRUCTURE (3 PILES)**

D-2
F501 SCALE 3/8" = 1'-0"

PRELIMINARY
SUBMITTED DATE: 7/18/2019

NO.	DATE	DESCRIPTIONS	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

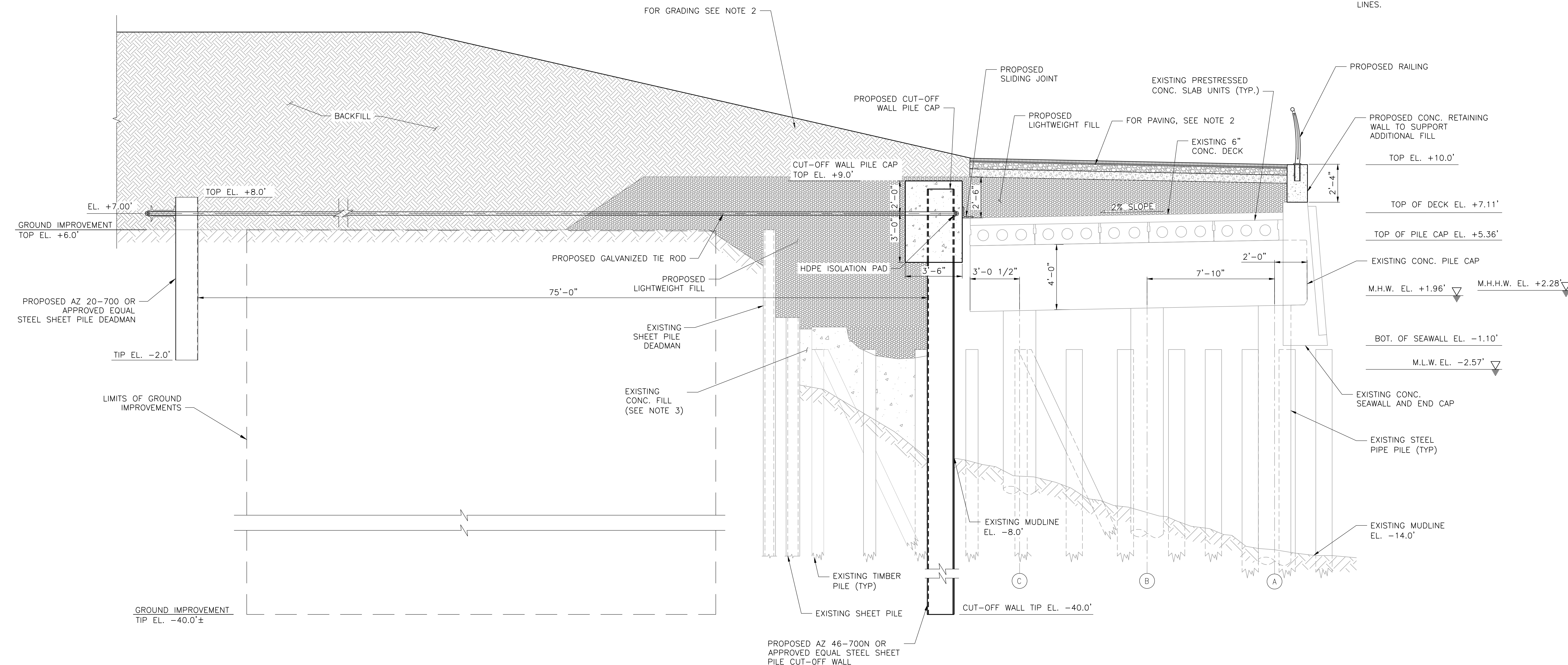
FINAL DESIGN PREPARED BY:
ch2m
CH2M HILL NEW YORK, INC.
NAME OF CONSULTANT
SIGNATURE _____
DATE _____

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

ESPLANADE CROSS SECTIONS
SHEET 4 OF 21
CH2M DRAWN BY _____
SANDRESM1-F523-00.DWG
CADD FILE

INSTALLATION OF
EAST SIDE COASTAL RESILIENCY
BOROUGH OF MANHATTAN
CAPITAL PROJECT NO. SANDRESM1 7/18/2019
SHEET 388 OF 1594
F523

REVISED MASS MAILING #1 SUBMISSION 7/18/2019



- NOTES:**
1. ALL ELEVATIONS IN NAVD88 DATUM.
 2. REFER TO SHEETS LG300-LG315 FOR SITE PLAN AND GRADING.
 3. EXTENT OF VOIDS IN CONCRETE FILL BEHIND CUT-OFF WALL VARIES. SOME AREAS CONTAIN PARTIAL CONCRETE FILL, WHILE OTHER AREAS HAVE NO EXISTING CONCRETE FILL.
 4. THE ROD ANCHORS BETWEEN BENTS 145 AND 148 SHALL BE INSTALLED AT +2.00 FT. TO AVOID CONFLICT WITH EXISTING CON EDISON LINES.

**PROPOSED ESPLANADE PLATFORM
ADDITIONAL FILL ON EXISTING STRUCTURE (3 PILES)**

D-3
F501 SCALE 3/8" = 1'-0"

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

ESPLANADE CROSS SECTIONS
SHEET 5 OF 21

CH2M DRAWN BY _____ SANDRESM1-F524-00.DWG
CADD FILE

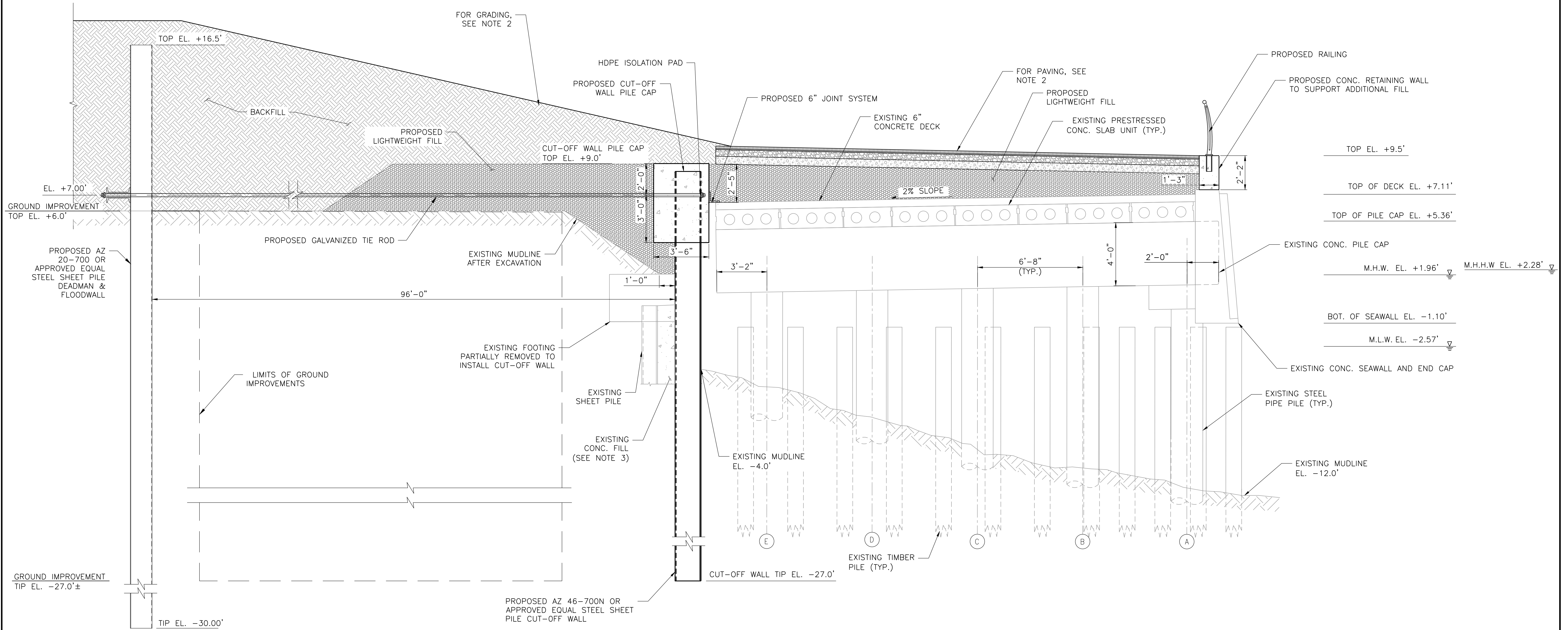
NO.	DATE	DESCRIPTIONS REVISIONS	BY	APPR'D

INSTALLATION OF
EAST SIDE COASTAL RESILIENCY
BOROUGH OF MANHATTAN
CAPITAL PROJECT NO. SANDRESM1 7/18/2019 SHEET 389 OF 1594 F524

REVISED MASS MAILING # 1 SUBMISSION 7/18/2019

NOTES:

1. ALL ELEVATIONS IN NAVD88 DATUM.
2. REFER TO SHEETS LG300 - LG315 FOR SITE PLAN AND GRADING.



**PROPOSED ESPLANADE PLATFORM
ADDITIONAL FILL ON EXISTING STRUCTURE (5 PILES)**

D-4
F501 SCALE 3/8" = 1'-0"

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

ESPLANADE CROSS SECTIONS
SHEET 6 OF 21

CH2M DRAWN BY _____ SANDRESM1-F525-00.DWG
CADD FILE

INSTALLATION OF
EAST SIDE COASTAL RESILIENCY
BOROUGH OF MANHATTAN

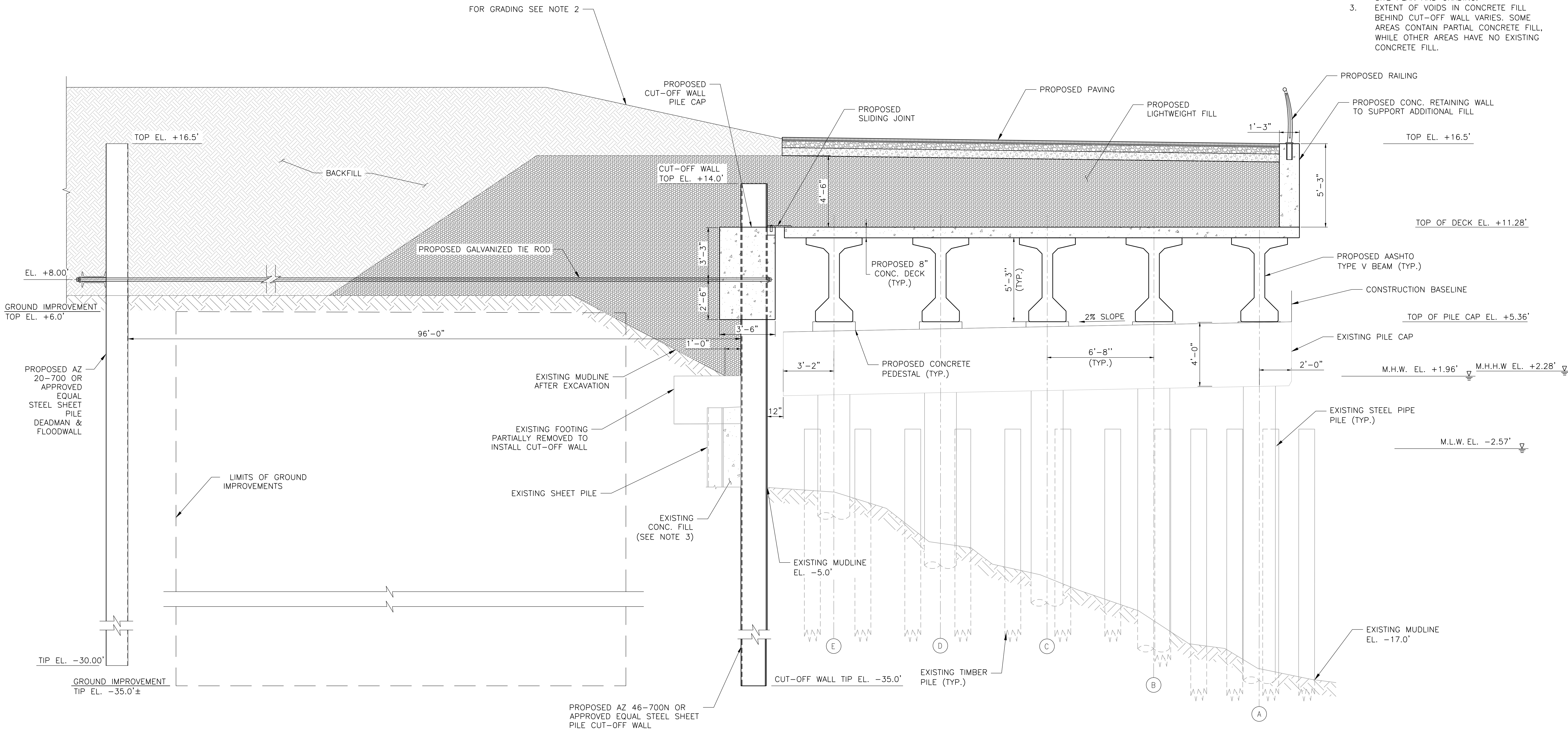
NO.	DATE	DESCRIPTIONS REVISIONS	BY	APPR'D

CAPITAL PROJECT NO. SANDRESM1 7/18/2019 SHEET 390 OF 1594 F525

REVISED MASS MAILING #1 SUBMISSION 7/18/2019

NOTES:

1. ALL ELEVATIONS IN NAVD88 DATUM.
2. REFER TO SHEETS LG300-LG315 FOR SITE PLAN AND GRADING.
3. EXTENT OF VOIDS IN CONCRETE FILL BEHIND CUT-OFF WALL VARIES. SOME AREAS CONTAIN PARTIAL CONCRETE FILL, WHILE OTHER AREAS HAVE NO EXISTING CONCRETE FILL.



**PROPOSED ESPLANADE PLATFORM
PRESTRESSED CONCRETE BEAMS ON EXISTING STRUCTURE (5 PILES)**

E-1
F502 SCALE 3/8" = 1'-0"

PRELIMINARY
SUBMITTED DATE: 7/18/2019

NO.	DATE	DESCRIPTIONS	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

ESPLANADE CROSS SECTIONS
SHEET 7 OF 21

CH2M DRAWN BY _____ SANDRESM1-F526-00.DWG
CADD FILE

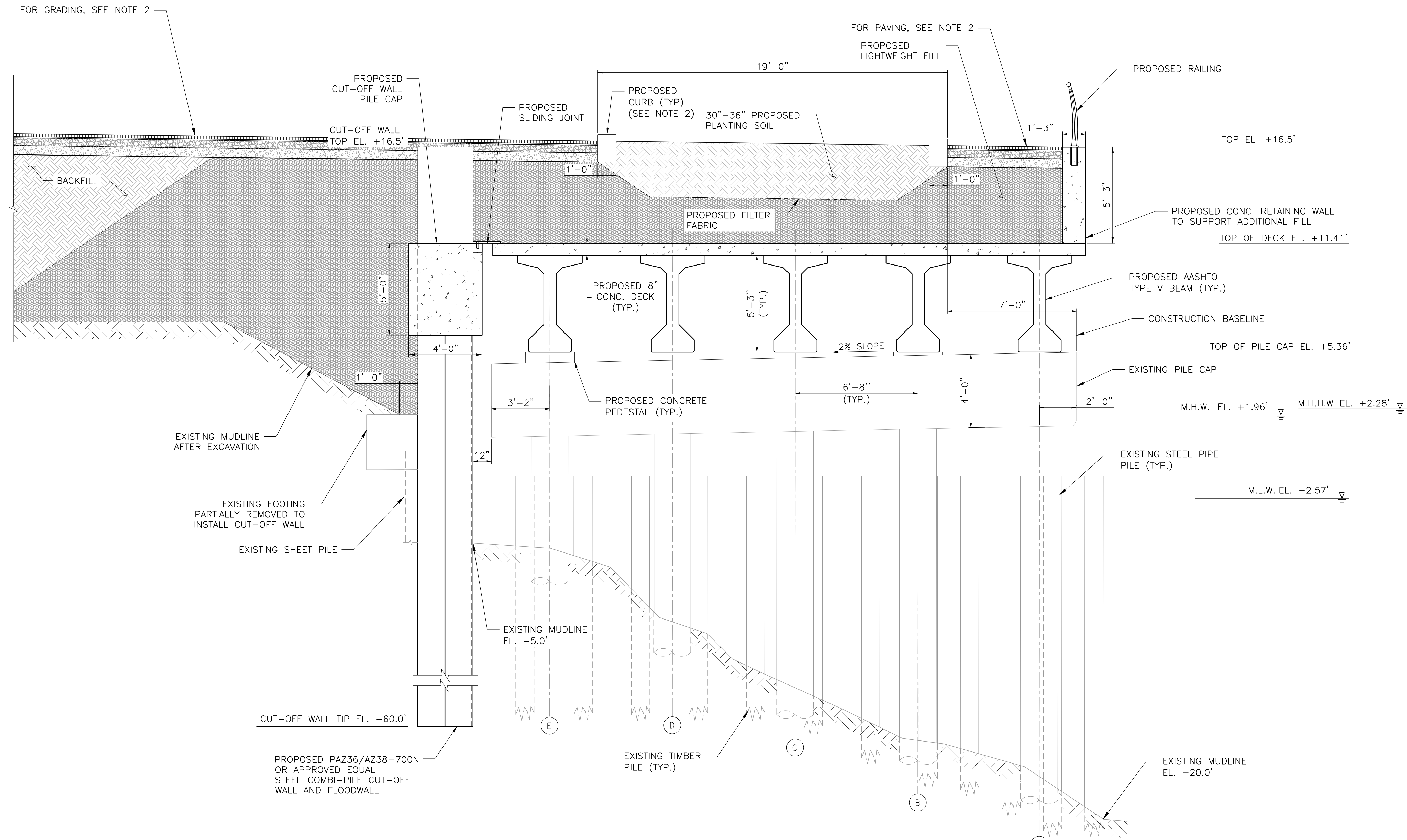
INSTALLATION OF
EAST SIDE COASTAL RESILIENCY
BOROUGH OF MANHATTAN

CAPITAL PROJECT NO. SANDRESM1 7/18/2019 SHEET 391 OF 1594 F526

REVISED MASS MAILING # 1 SUBMISSION 7/18/2019

NOTES:

1. ALL ELEVATIONS IN NAVD88 DATUM.
2. REFER TO SHEETS LG300 - LG315 FOR SITE PLAN AND GRADING.



**PROPOSED ESPLANADE PLATFORM
PRESTRESSED CONCRETE BEAMS ON EXISTING STRUCTURE (5 PILES)**

E-2
F502 SCALE 3/8" = 1'-0"

PRELIMINARY
SUBMITTED DATE: 7/18/2019

NO.	DATE	DESCRIPTIONS	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

ESPLANADE CROSS SECTIONS
SHEET 8 OF 21

CH2M
DRAWN BY _____

SANDRESM1-F527-00.DWG
CADD FILE

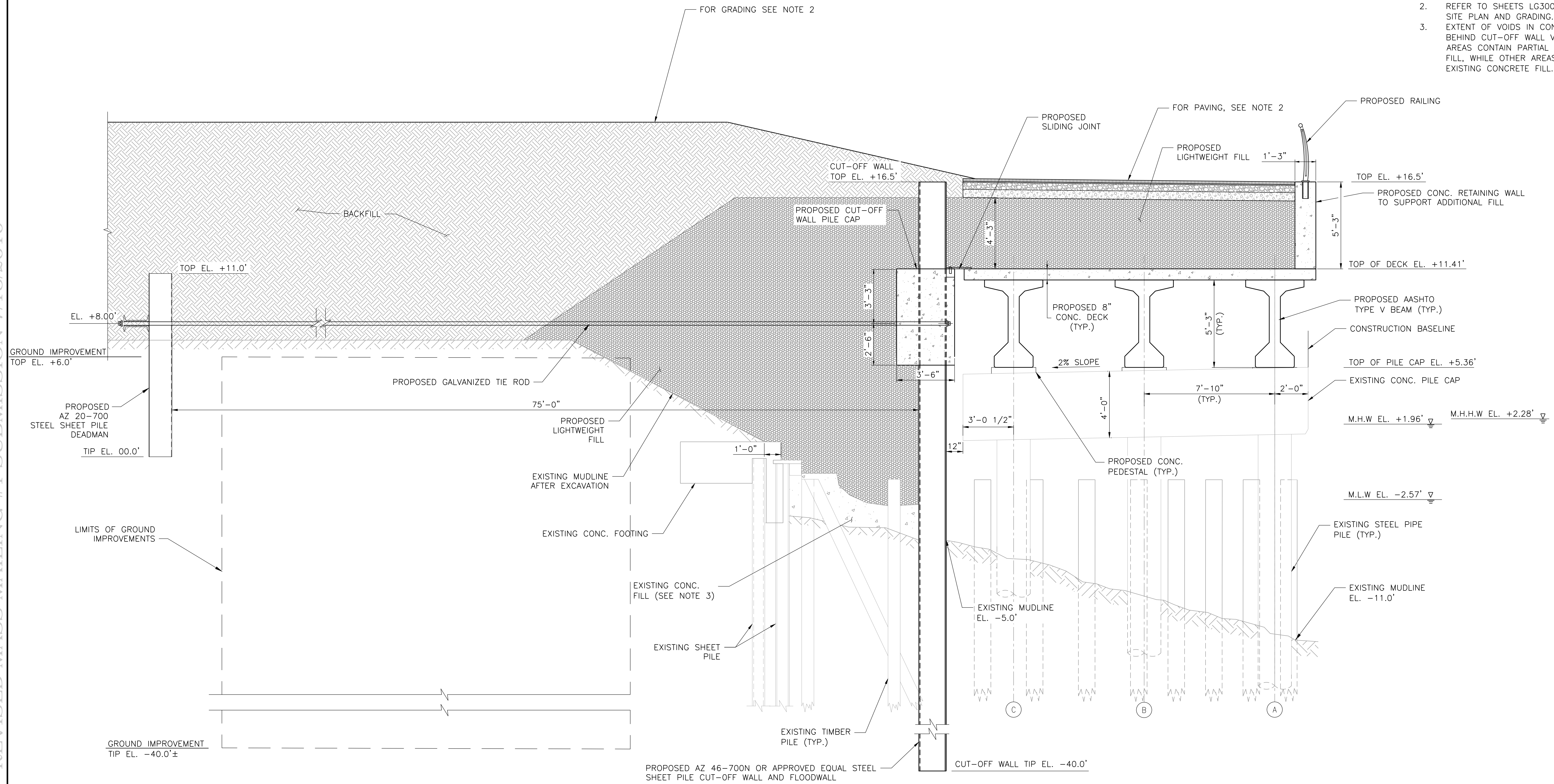
INSTALLATION OF
EAST SIDE COASTAL RESILIENCY
BOROUGH OF MANHATTAN

CAPITAL PROJECT NO. SANDRESM1 7/18/2019 SHEET 392 OF 1594 F527

REVISED MASS MAILING #1 SUBMISSION 7/18/2019

NOTES:

1. ALL ELEVATIONS IN NAVD88 DATUM.
2. REFER TO SHEETS LG300-LG315 FOR SITE PLAN AND GRADING.
3. EXTENT OF VOIDS IN CONCRETE FILL BEHIND CUT-OFF WALL VARIES. SOME AREAS CONTAIN PARTIAL CONCRETE FILL, WHILE OTHER AREAS HAVE NO EXISTING CONCRETE FILL.



**PROPOSED ESPLANADE PLATFORM
ALTERNATE SECTION,
PRESTRESSED CONCRETE BEAMS ON EXISTING STRUCTURE (3 PILES)**

E-3
F502 SCALE 3/8" = 1'-0"

PRELIMINARY
SUBMITTED DATE: 7/18/2019

NO.	DATE	DESCRIPTIONS	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

ESPLANADE CROSS SECTIONS
SHEET 9 OF 21

CH2M DRAWN BY _____ SANDRESM1-F528-00.DWG
CADD FILE

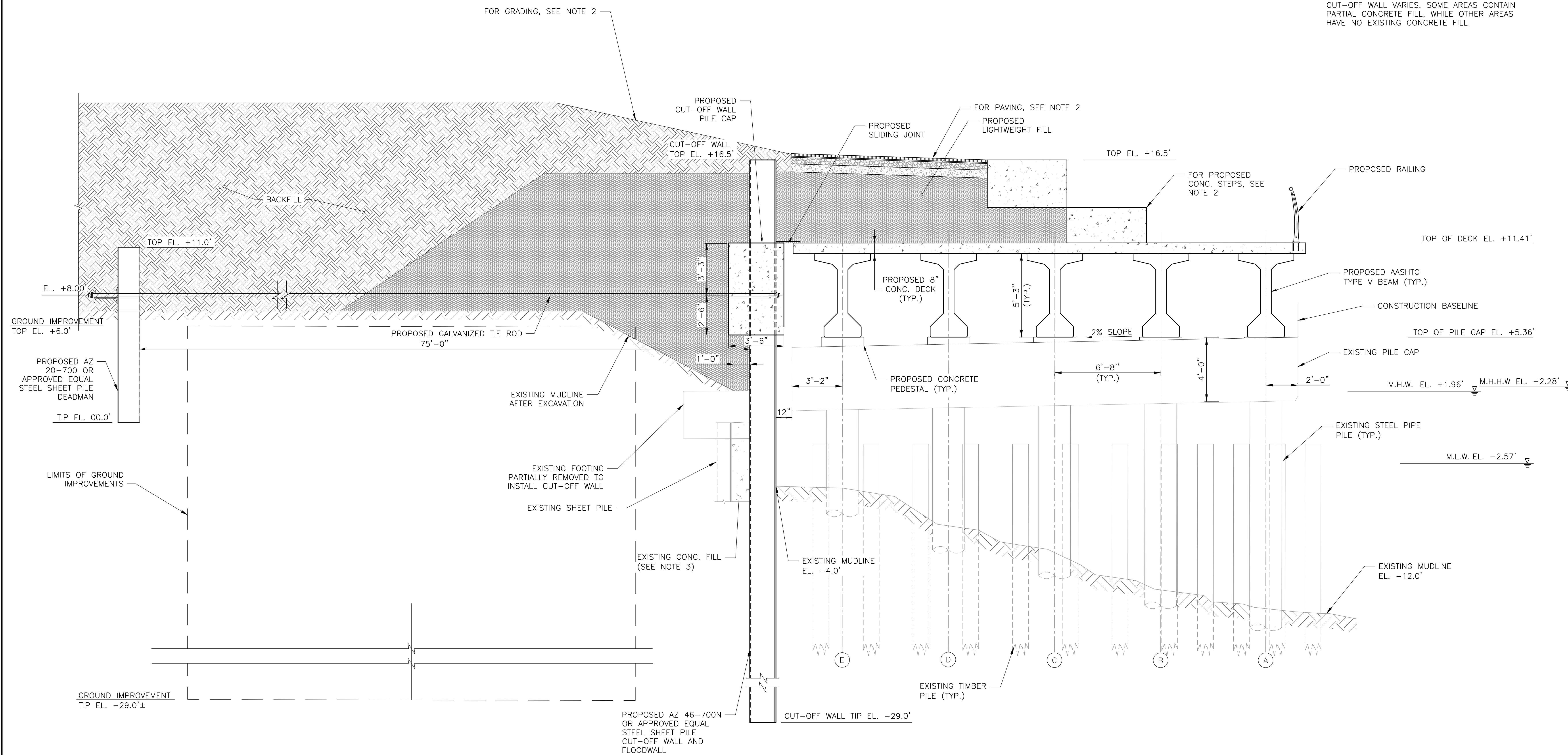
INSTALLATION OF
EAST SIDE COASTAL RESILIENCY
BOROUGH OF MANHATTAN

CAPITAL PROJECT NO. SANDRESM1 7/18/2019 SHEET 393 OF 1594 F528

REVISED MASS MAILING #1 SUBMISSION 7/18/2019

NOTES:

1. ALL ELEVATIONS IN NAVD88 DATUM.
2. REFER TO SHEETS LG300-LG315 FOR SITE PLAN AND GRADING.
3. EXTENT OF VOIDS IN CONCRETE FILL BEHIND CUT-OFF WALL VARIES. SOME AREAS CONTAIN PARTIAL CONCRETE FILL, WHILE OTHER AREAS HAVE NO EXISTING CONCRETE FILL.



**PROPOSED ESPLANADE PLATFORM
PRESTRESSED CONCRETE BEAMS ON EXISTING STRUCTURE (5 PILES)**

F-1
F503 SCALE 3/8" = 1'-0"

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

ESPLANADE CROSS SECTIONS
SHEET 10 OF 21

CH2M DRAWN BY _____ SANDRESM1-F529-00.DWG
CADD FILE

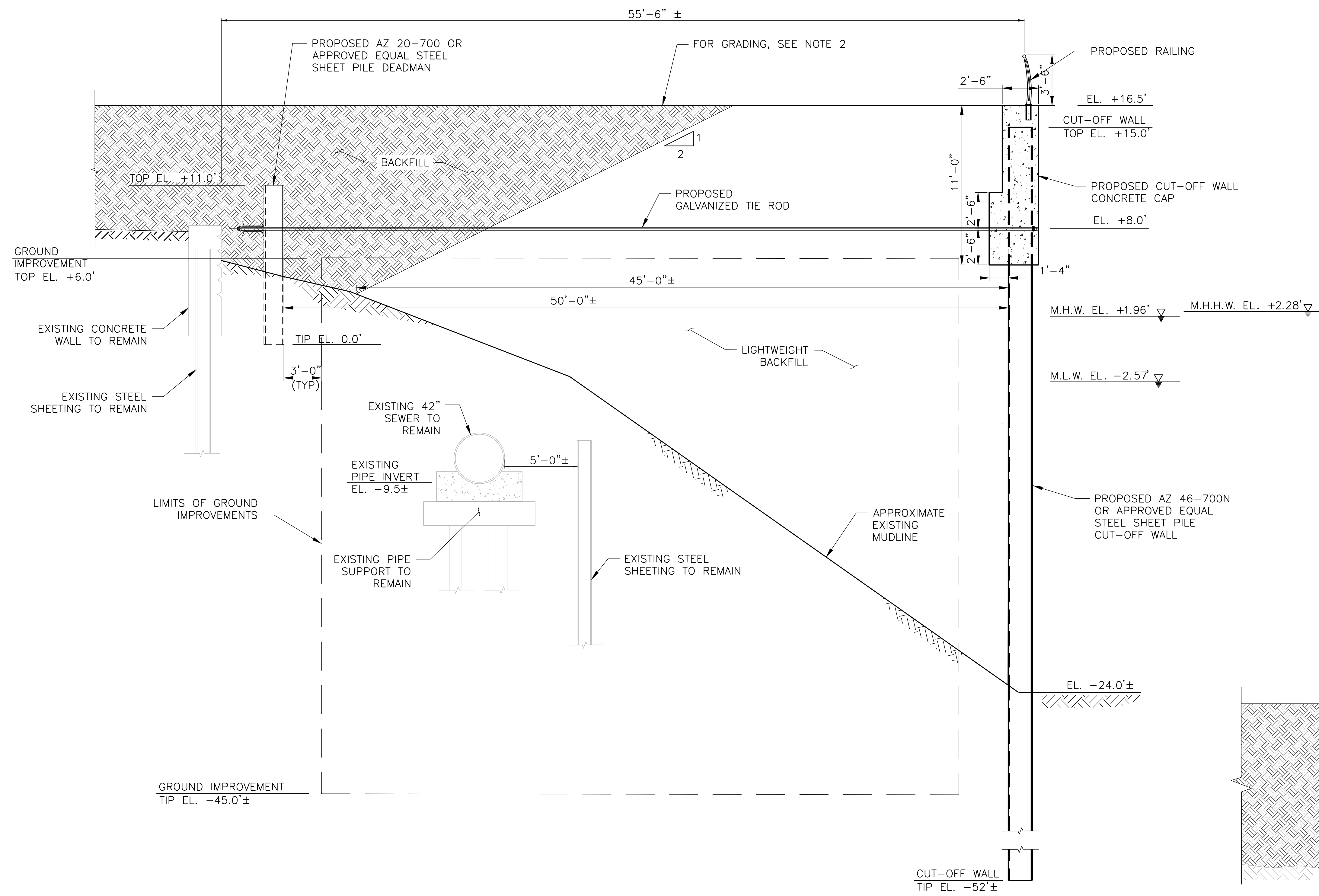
NO.	DATE	DESCRIPTIONS	BY	APPR'D

INSTALLATION OF
EAST SIDE COASTAL RESILIENCY
BOROUGH OF MANHATTAN

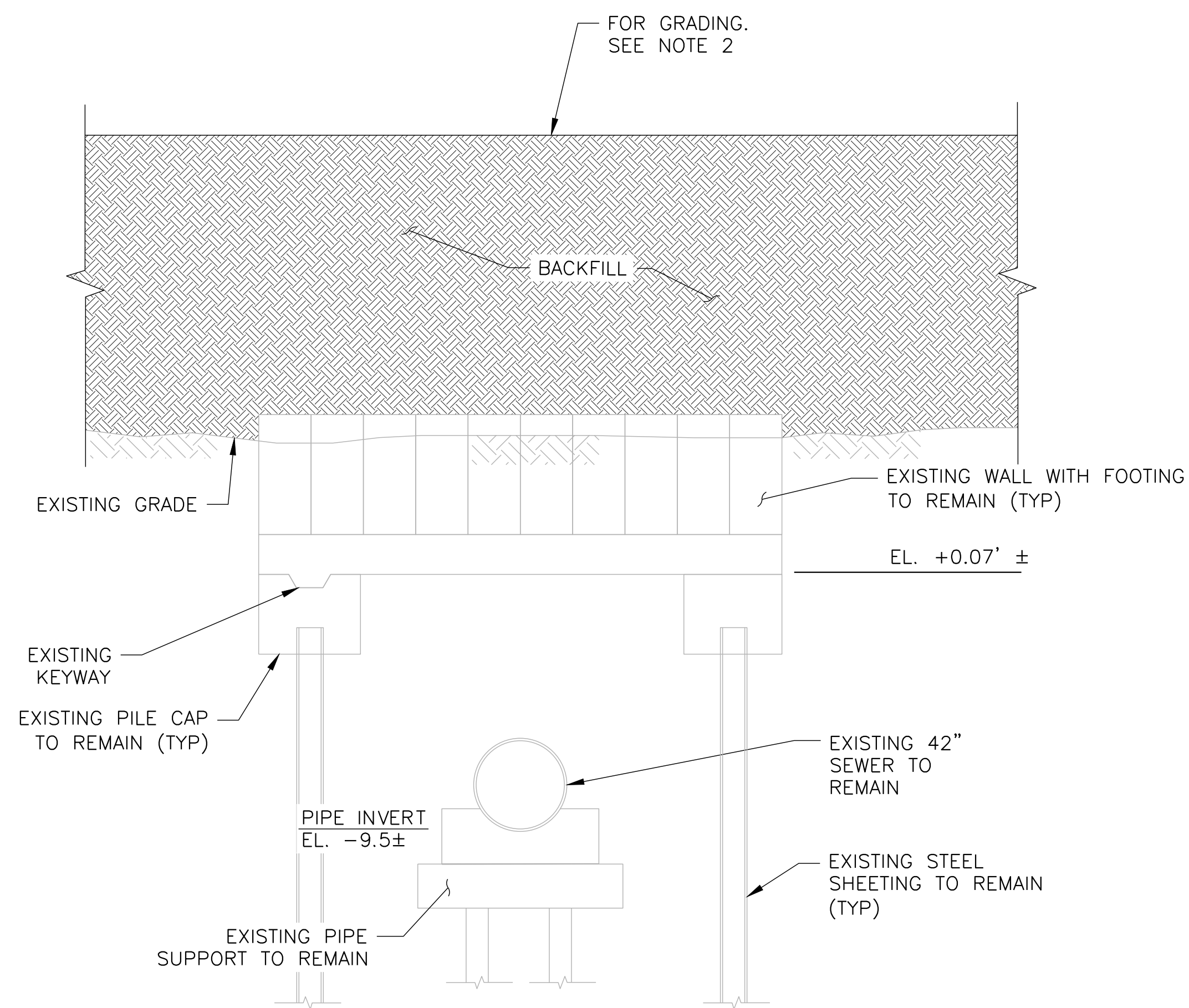
CAPITAL PROJECT NO. SANDRESM1 7/18/2019 SHEET 394 OF 1594 F529

REVISED MASS MAILING # 1 SUBMISSION 7/18/2019

- NOTES:**
1. ALL ELEVATIONS IN NAVD88 DATUM.
 2. REFER TO SHEETS LG300-LG315 FOR SITE PLAN AND GRADING.



FILLING OF EXISTING SOUTH EMBAYMENT SECTION - CENTER
 F-2 SCALE 1/4" = 1'-0"
 F503



FILLING OF EXISTING SOUTH EMBAYMENT SECTION - SIDE
 F-3 SCALE 1/4" = 1'-0"
 F503

PRELIMINARY
 SUBMITTED DATE: 7/18/2019

NO.	DATE	DESCRIPTIONS	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

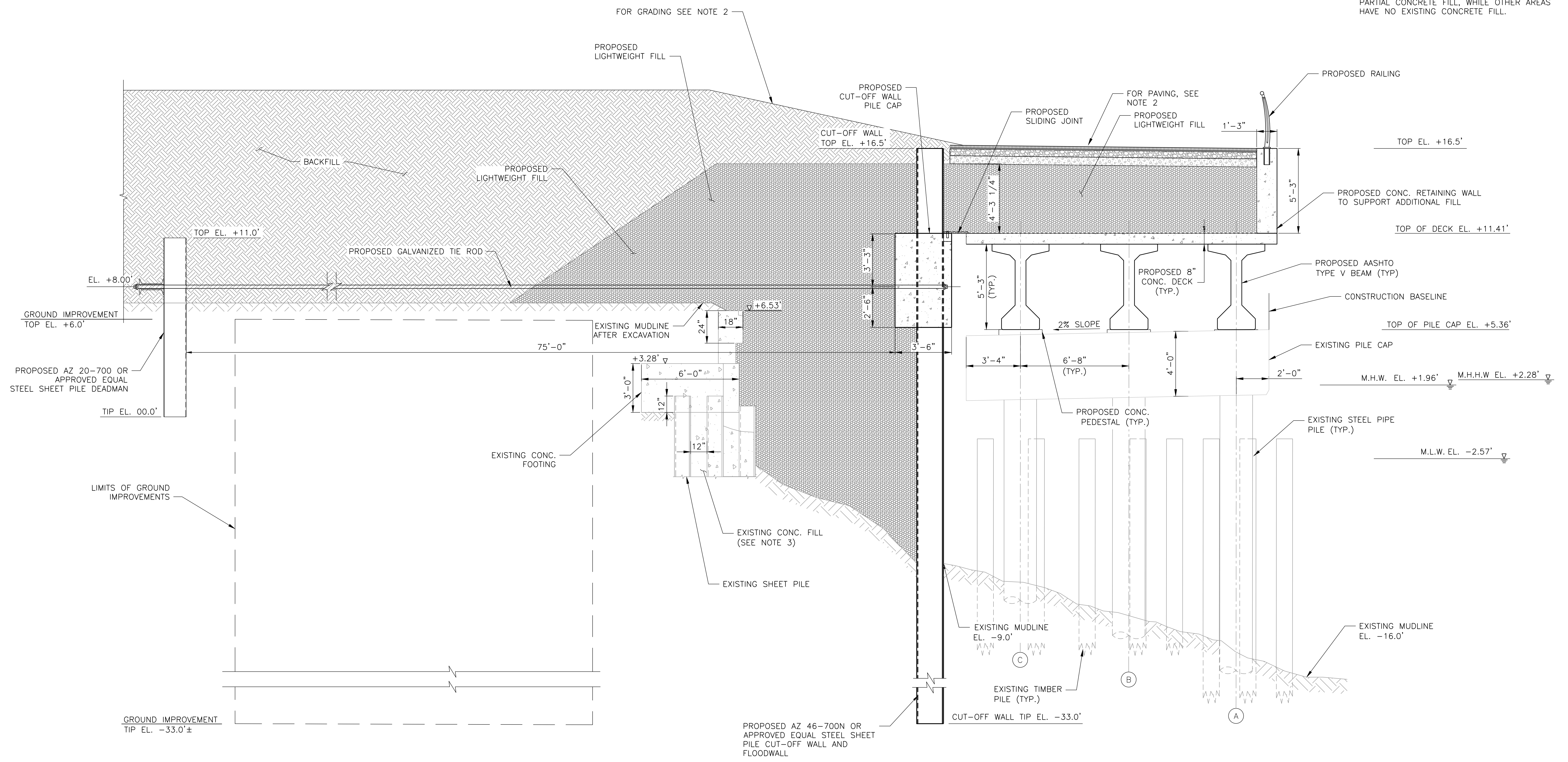
ESPLANADE CROSS SECTIONS
 SHEET 11 OF 21

CH2M DRAWN BY _____ SANDRESM1-F530-00.DWG
 CADD FILE

INSTALLATION OF
 EAST SIDE COASTAL RESILIENCY
 BOROUGH OF MANHATTAN
 CAPITAL PROJECT NO. SANDRESM1 7/18/2019 SHEET 395 OF 1594 F530

REVISED MASS MAILING # 1 SUBMISSION 7/18/2019

- NOTES:**
1. ALL ELEVATIONS IN NAVD88 DATUM.
 2. REFER TO SHEETS LG300-LG315 FOR SITE PLAN AND GRADING.
 3. EXTENT OF VOIDS IN CONCRETE FILL BEHIND CUT-OFF WALL VARIES. SOME AREAS CONTAIN PARTIAL CONCRETE FILL, WHILE OTHER AREAS HAVE NO EXISTING CONCRETE FILL.



**PROPOSED ESPLANADE PLATFORM
PRESTRESSED CONCRETE BEAMS ON EXISTING STRUCTURE (3 PILES)**

F-4
F503 SCALE 3/8" = 1'-0"

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

ESPLANADE CROSS SECTIONS
SHEET 12 OF 21
CH2M DRAWN BY _____
SANDRESM1-F531-00.DWG
CADD FILE

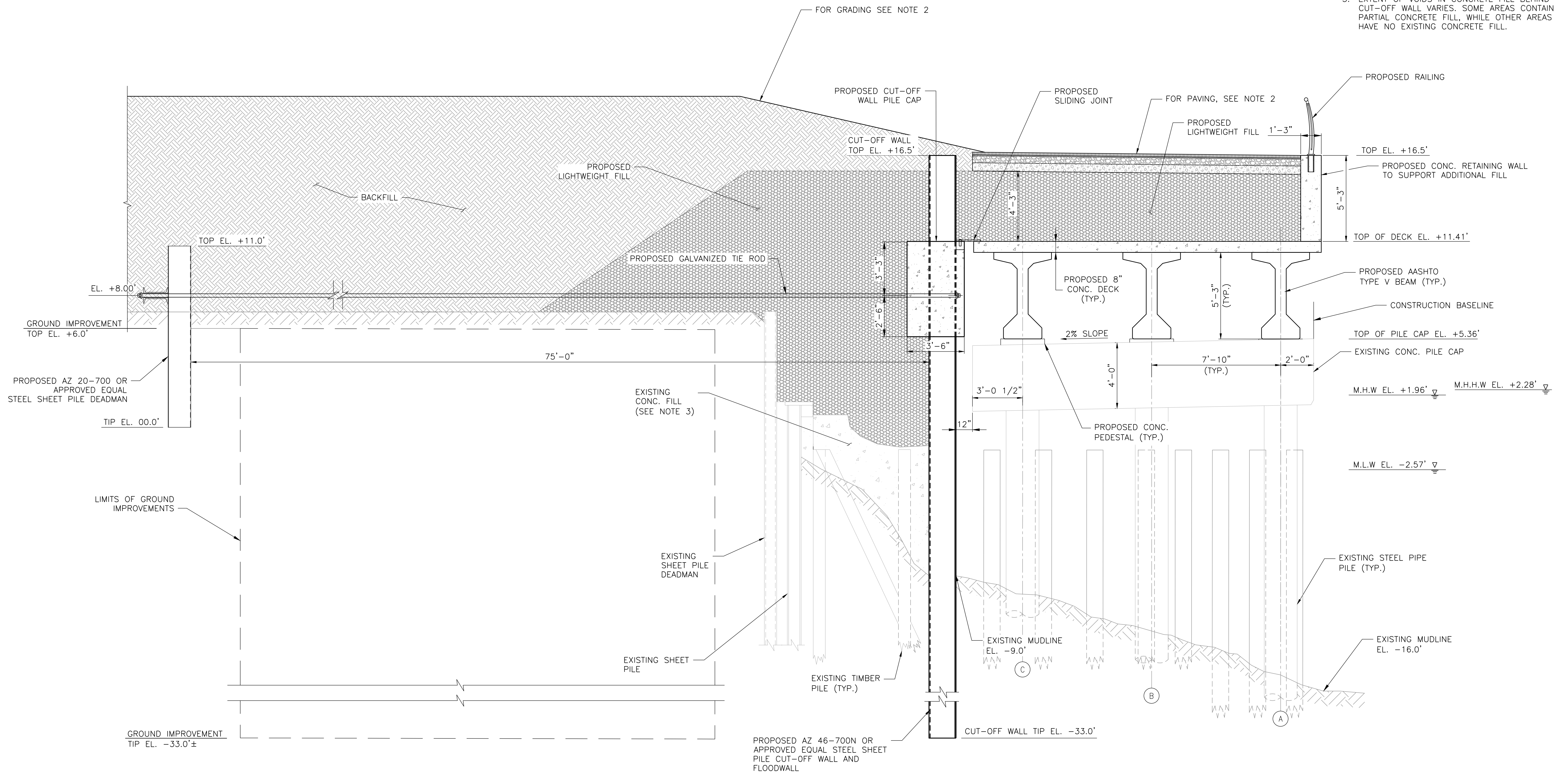
NO.	DATE	DESCRIPTIONS	BY	APPR'D

INSTALLATION OF
EAST SIDE COASTAL RESILIENCY
BOROUGH OF MANHATTAN
CAPITAL PROJECT NO. SANDRESM1 7/18/2019
SHEET 396 OF 1594
F531

REVISED MASS MAILING # 1 SUBMISSION 7/18/2019

NOTES:

1. ALL ELEVATIONS IN NAVD88 DATUM.
2. REFER TO SHEETS LG300-LG315 FOR SITE PLAN AND GRADING.
3. EXTENT OF VOIDS IN CONCRETE FILL BEHIND CUT-OFF WALL VARIES. SOME AREAS CONTAIN PARTIAL CONCRETE FILL, WHILE OTHER AREAS HAVE NO EXISTING CONCRETE FILL.



**PROPOSED ESPLANADE PLATFORM
PRESTRESSED CONCRETE BEAMS ON EXISTING STRUCTURE (3 PILES)**

F-5
F503 SCALE 3/8" = 1'-0"

PRELIMINARY
SUBMITTED DATE: 7/18/2019

NO.	DATE	DESCRIPTIONS 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

ESPLANADE CROSS SECTIONS
SHEET 13 OF 21

CH2M
DRAWN BY _____

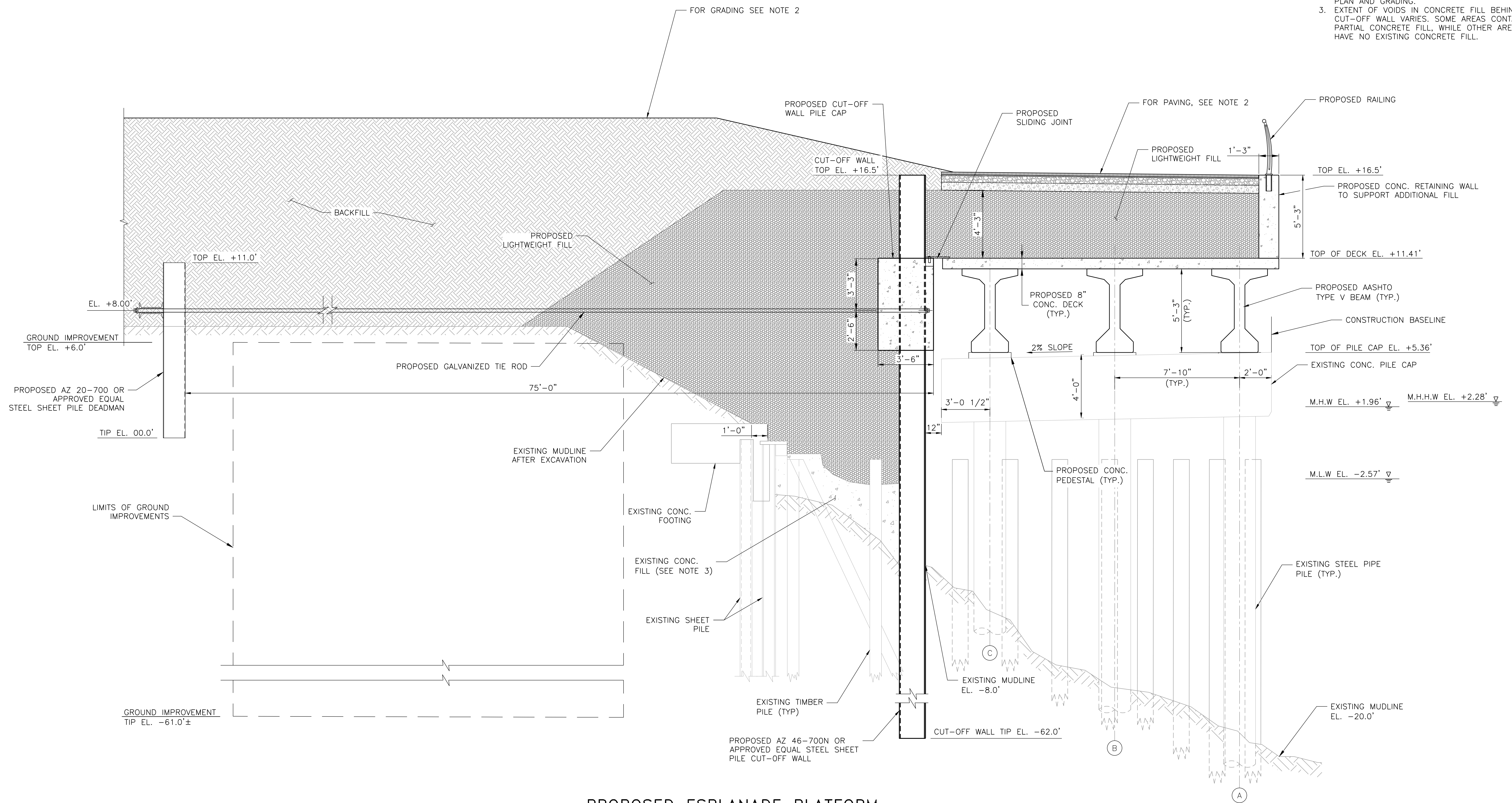
SANDRESM1-F532-00.DWG
CADD FILE

INSTALLATION OF
EAST SIDE COASTAL RESILIENCY
BOROUGH OF MANHATTAN

CAPITAL PROJECT NO. SANDRESM1 7/18/2019 SHEET 397 OF 1594 F532

REVISED MASS MAILING # 1 SUBMISSION 7/18/2019

- NOTES:**
1. ALL ELEVATIONS IN NAVD88 DATUM.
 2. REFER TO SHEETS LG300-LG315 FOR SITE PLAN AND GRADING.
 3. EXTENT OF VOIDS IN CONCRETE FILL BEHIND CUT-OFF WALL VARIES. SOME AREAS CONTAIN PARTIAL CONCRETE FILL, WHILE OTHER AREAS HAVE NO EXISTING CONCRETE FILL.



**PROPOSED ESPLANADE PLATFORM
ALTERNATE SECTION,
PRESTRESSED CONCRETE BEAMS ON EXISTING STRUCTURE (3 PILES)**

G-1
F504 SCALE 3/8" = 1'-0"

PRELIMINARY
SUBMITTED DATE: 7/18/2019

NO.	DATE	DESCRIPTIONS	BY	APPR'D

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

ESPLANADE CROSS SECTIONS
SHEET 14 OF 21

CH2M DRAWN BY _____ SANDRESM1-F533-00.DWG
CADD FILE

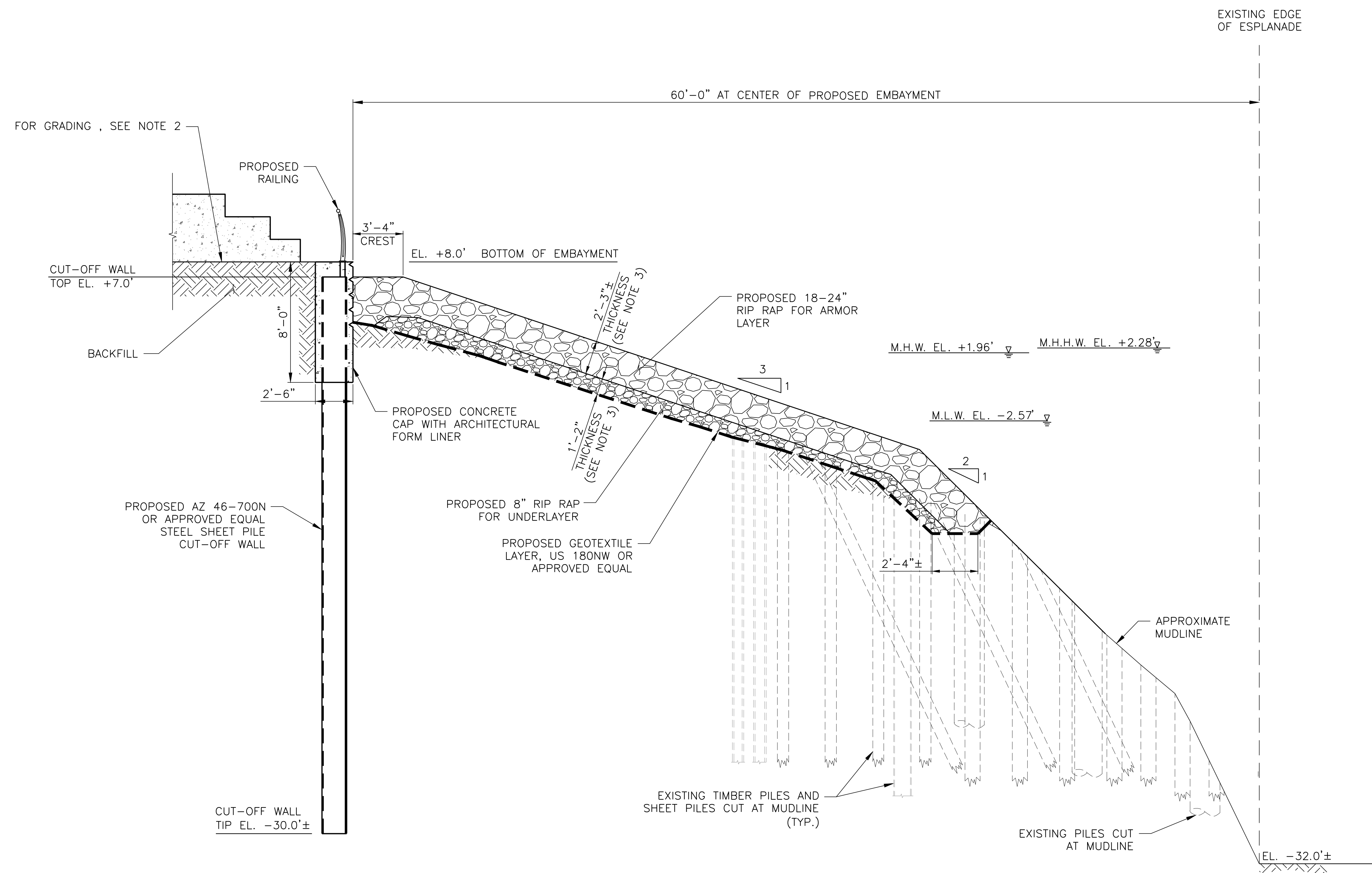
INSTALLATION OF
EAST SIDE COASTAL RESILIENCY
BOROUGH OF MANHATTAN

CAPITAL PROJECT NO. SANDRESM1 7/18/2019 SHEET 398 OF 1594 F533

REVISED MASS MAILING # 1 SUBMISSION 7/18/2019

NOTES:

1. ALL ELEVATIONS IN NAVD88 DATUM.
2. REFER TO SHEETS LG300-LG315 FOR SITE PLAN AND GRADING.
3. CONSTRUCTION TOLERANCES FOR RIP RAP LAYERS SHALL NOT EXCEED:
 ARMOR LAYER: +8" TO -8" DEVIATION FROM PROPOSED THICKNESS
 UNDER LAYER: +19 TO -12" DEVIATION FROM PROPOSED THICKNESS



G-2 PROPOSED NORTH EMBAYMENT SECTION
 SCALE 1/4" = 1'-0"

PRELIMINARY
 SUBMITTED DATE: 7/18/2019

NO.	DATE	DESCRIPTIONS	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

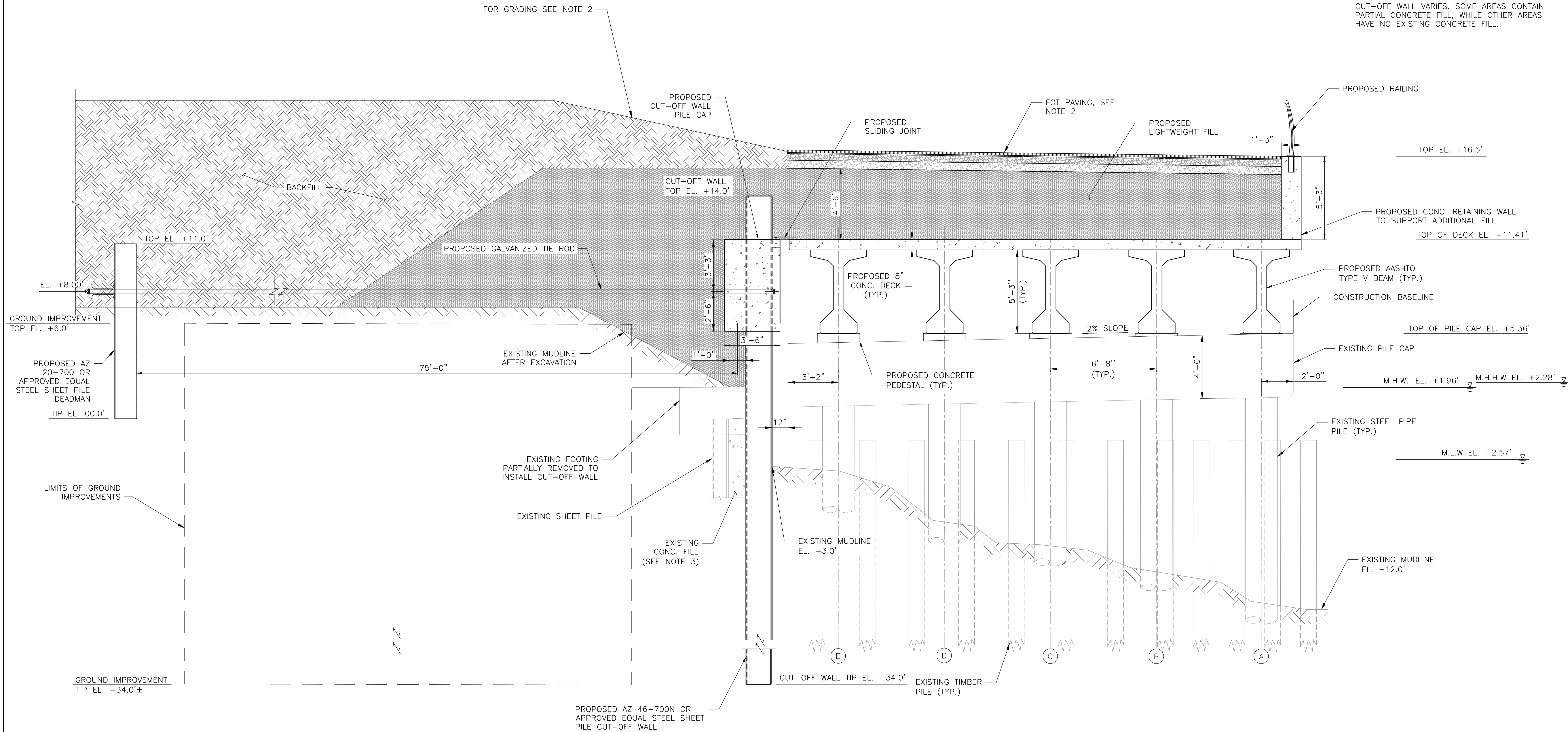
ESPLANADE CROSS SECTIONS
 SHEET 15 OF 21

CH2M DRAWN BY _____ SANDRESM1-F534-00.DWG
 CADD FILE

INSTALLATION OF
 EAST SIDE COASTAL RESILIENCY
 BOROUGH OF MANHATTAN
 CAPITAL PROJECT NO. SANDRESM1 7/18/2019 SHEET 399 OF 1594 F534

REVISED MASS MAILING # 1 SUBMISSION 7/18/2019

- NOTES:**
1. ALL ELEVATIONS IN NAVD88 DATUM.
 2. REFER TO SHEETS LG300-LG315 FOR SITE PLAN AND GRADING.
 3. EXTENT OF VOIDS IN CONCRETE FILL BEHIND CUT-OFF WALL VARIES. SOME AREAS CONTAIN PARTIAL CONCRETE FILL, WHILE OTHER AREAS HAVE NO EXISTING CONCRETE FILL.



**PROPOSED ESPLANADE PLATFORM
PRESTRESSED CONCRETE BEAMS ON EXISTING STRUCTURE (5 PILES)**

G-3
F504 SCALE 3/8" = 1'-0"

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

ESPLANADE CROSS SECTIONS
SHEET 16 OF 21

CH2M DRAWN BY _____ SANDRESM1-F535-00.DWG
CADD FILE

NO.	DATE	DESCRIPTIONS REVISIONS	BY	APPR'D

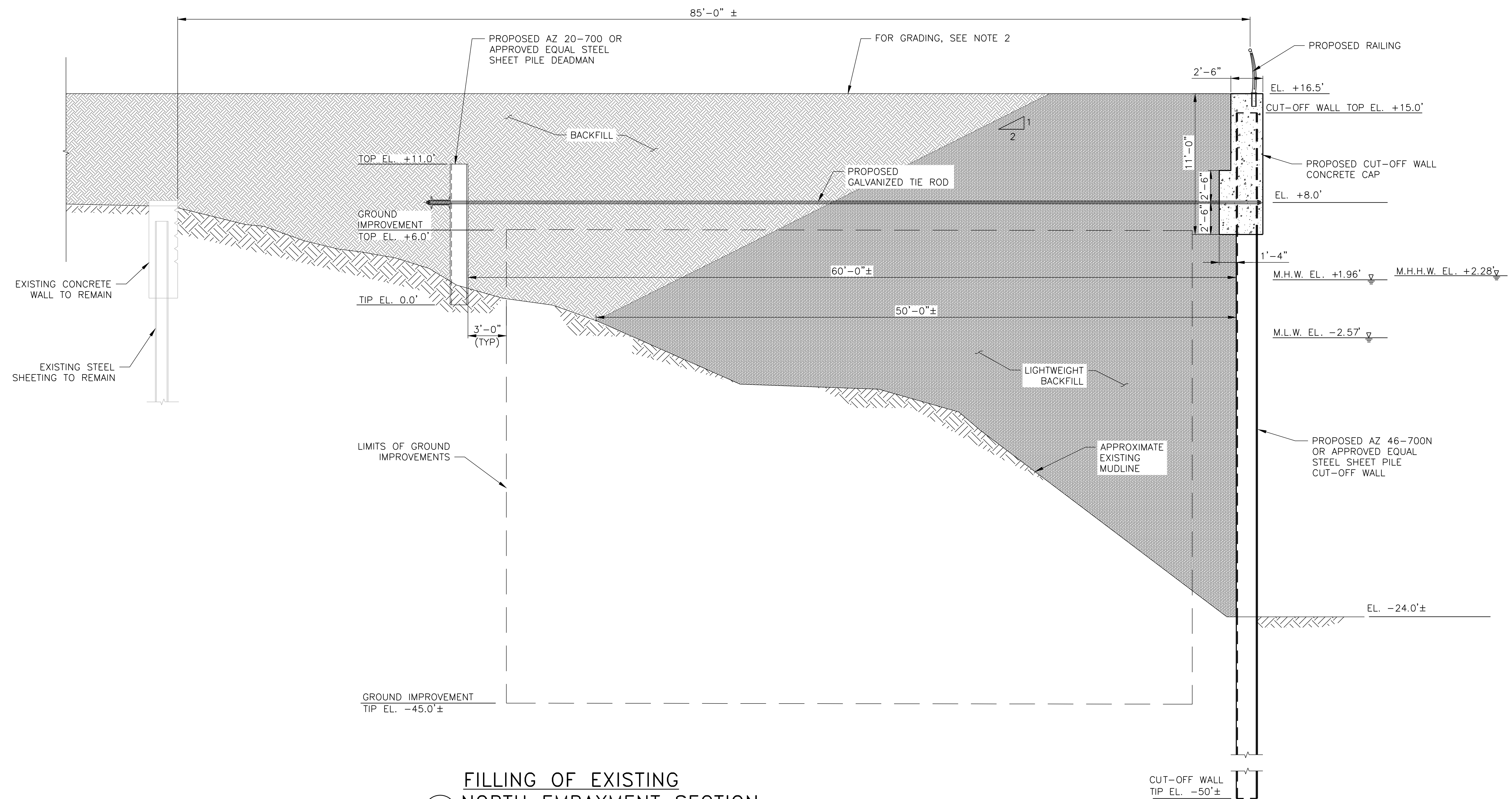
INSTALLATION OF
EAST SIDE COASTAL RESILIENCY
BOROUGH OF MANHATTAN

CAPITAL PROJECT NO. SANDRESM1 7/18/2019 SHEET 400 OF 1594 F535

REVISED MASS MAILING # 1 SUBMISSION 7/18/2019

NOTES:

1. ALL ELEVATIONS IN NAVD88 DATUM.
2. REFER TO SHEETS LG300-LG315 FOR SITE PLAN AND GRADING.



FILLING OF EXISTING NORTH EMBAYMENT SECTION

H-1
F505
SCALE 1/4" = 1'-0"

PRELIMINARY

SUBMITTED DATE: 7/18/2019

NO.	DATE	DESCRIPTIONS	BY	APPR'D

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

FINAL DESIGN SUBMITTED BY:



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

ESPLANADE CROSS SECTIONS
SHEET 17 OF 21

CH2M
DRAWN BY

SANDRESM1-F536-00.DWG
CADD FILE

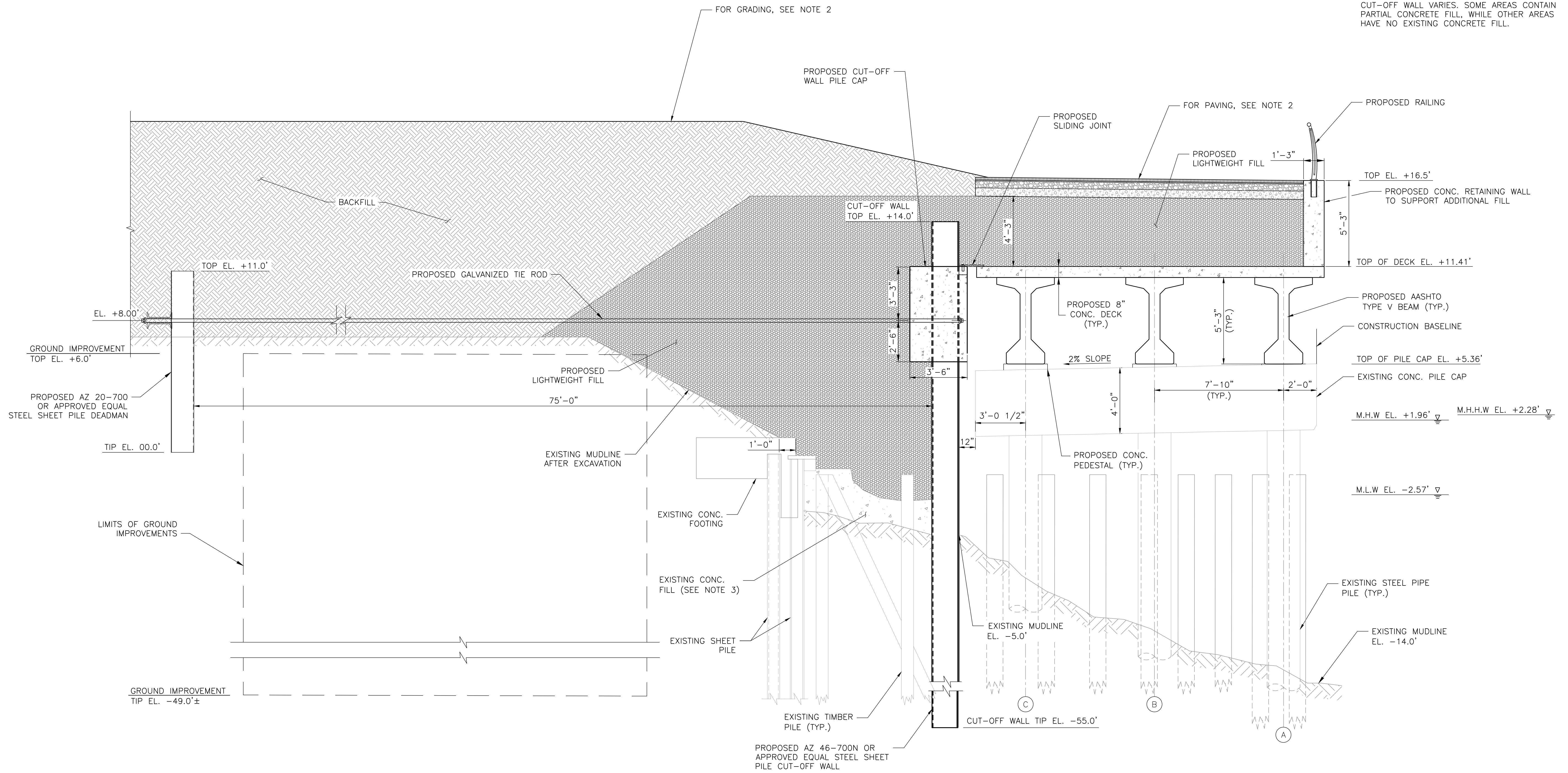
INSTALLATION OF
EAST SIDE COASTAL RESILIENCY
BOROUGH OF MANHATTAN

CAPITAL PROJECT NO. SANDRESM1 7/18/2019 SHEET 401 OF 1594 F536

REVISED MASS MAILING # 1 SUBMISSION 7/18/2019

NOTES:

1. ALL ELEVATIONS IN NAVD88 DATUM.
2. REFER TO SHEETS LG300-LG315 FOR SITE PLAN AND GRADING.
3. EXTENT OF VOIDS IN CONCRETE FILL BEHIND CUT-OFF WALL VARIES. SOME AREAS CONTAIN PARTIAL CONCRETE FILL, WHILE OTHER AREAS HAVE NO EXISTING CONCRETE FILL.



**PROPOSED ESPLANADE PLATFORM ALTERNATE SECTION,
PRESTRESSED CONCRETE BEAMS ON EXISTING STRUCTURE (3 PILES)**

H-2
F505 SCALE 3/8" = 1'-0"

PRELIMINARY

SUBMITTED DATE: 7/18/2019

NO.	DATE	DESCRIPTIONS	BY	APPR'D

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

ESPLANADE CROSS SECTIONS
SHEET 18 OF 21

CH2M
DRAWN BY

SANDRESM1-F537-00.DWG
CADD FILE

INSTALLATION OF
EAST SIDE COASTAL RESILIENCY
BOROUGH OF MANHATTAN

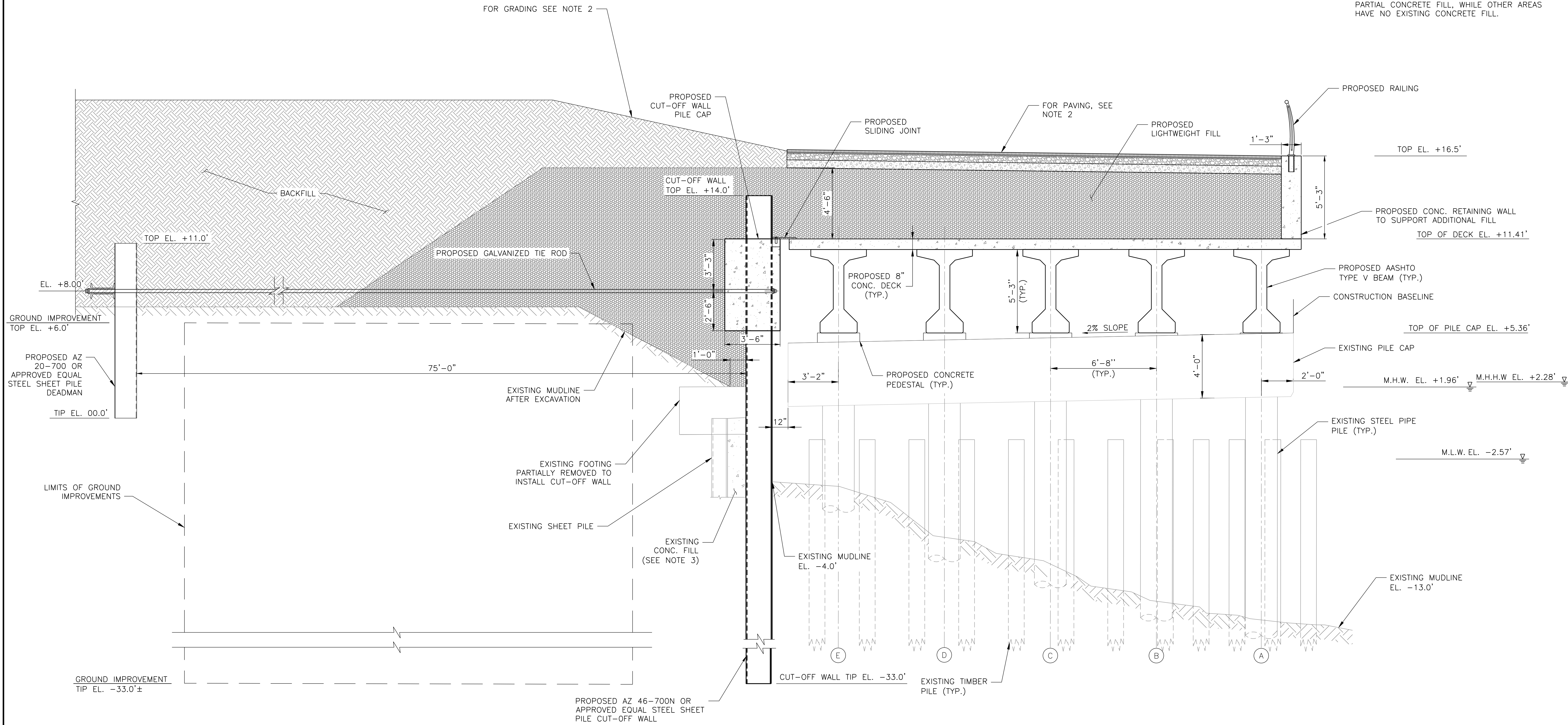
CAPITAL PROJECT NO. SANDRESM1 7/18/2019

SHEET 402 OF 1594 F537

REVISED MASS MAILING # 1 SUBMISSION 7/18/2019

NOTES:

1. ALL ELEVATIONS IN NAVD88 DATUM.
2. REFER TO SHEETS LG300-LG315 FOR SITE PLAN AND GRADING.
3. EXTENT OF VOIDS IN CONCRETE FILL BEHIND CUT-OFF WALL VARIES. SOME AREAS CONTAIN PARTIAL CONCRETE FILL, WHILE OTHER AREAS HAVE NO EXISTING CONCRETE FILL.



**PROPOSED ESPLANADE PLATFORM
PRESTRESSED CONCRETE BEAMS ON EXISTING STRUCTURE (5 PILES)**

1-1
F506 SCALE 3/8" = 1'-0"

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

ESPLANADE CROSS SECTIONS
SHEET 19 OF 21

CH2M
DRAWN BY

SANDRESM1-F538-00.DWG
CADD FILE

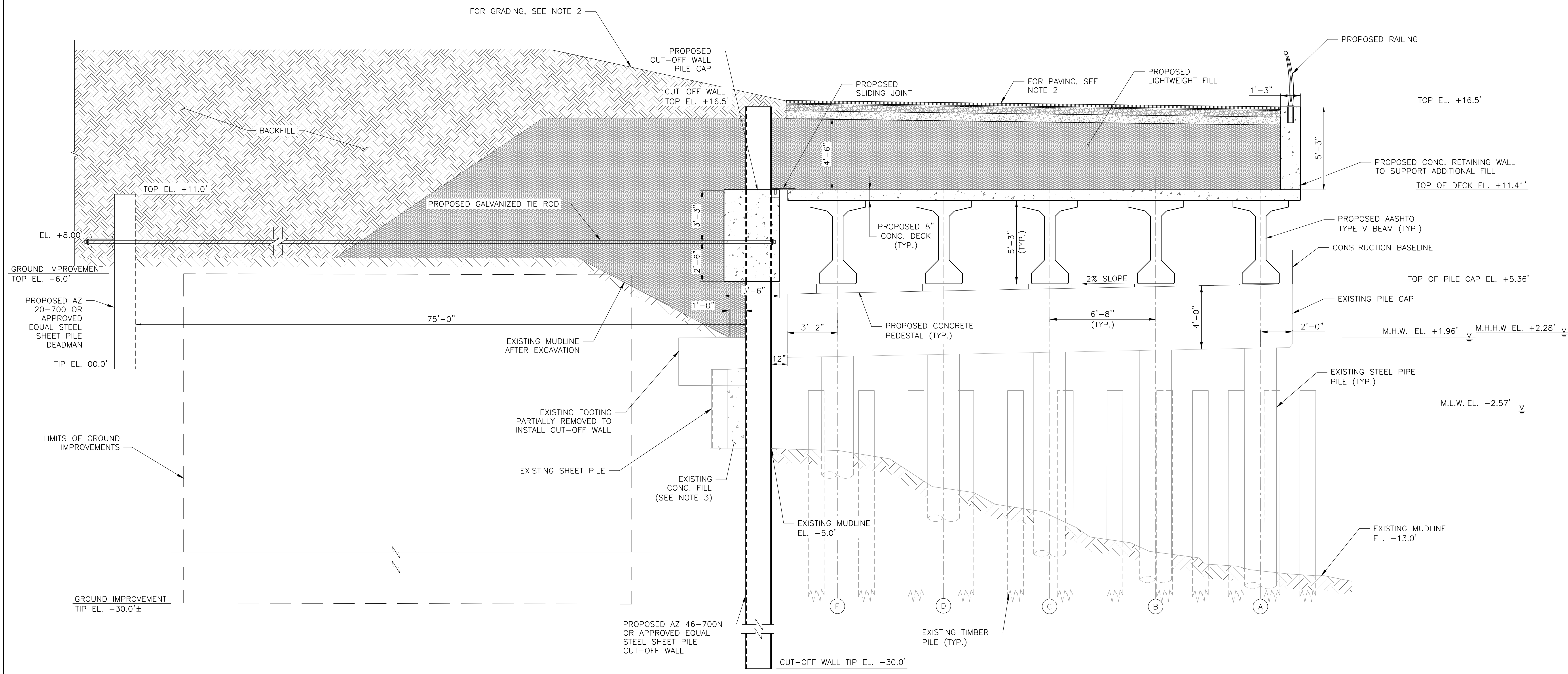
INSTALLATION OF
EAST SIDE COASTAL RESILIENCY
BOROUGH OF MANHATTAN

NO.	DATE	DESCRIPTIONS REVISIONS	BY	APPR'D

CAPITAL PROJECT NO. SANDRESM1 7/18/2019 SHEET 403 OF 1594 F538

REVISED MASS MAILING # 1 SUBMISSION 7/18/2019

- NOTES:**
1. ALL ELEVATIONS IN NAVD88 DATUM.
 2. REFER TO SHEETS LG300-LG315 FOR SITE PLAN AND GRADING.
 3. EXTENT OF VOIDS IN CONCRETE FILL BEHIND CUT-OFF WALL VARIES. SOME AREAS CONTAIN PARTIAL CONCRETE FILL, WHILE OTHER AREAS HAVE NO EXISTING CONCRETE FILL.



**PROPOSED ESPLANADE PLATFORM
PRESTRESSED CONCRETE BEAMS ON EXISTING STRUCTURE (5 PILES)**

J-1
F507 SCALE 3/8" = 1'-0"

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

ESPLANADE CROSS SECTIONS
SHEET 20 OF 21

CH2M DRAWN BY _____ SANDRESM1-F539-00.DWG
CADD FILE

NO.	DATE	DESCRIPTIONS	BY	APPR'D

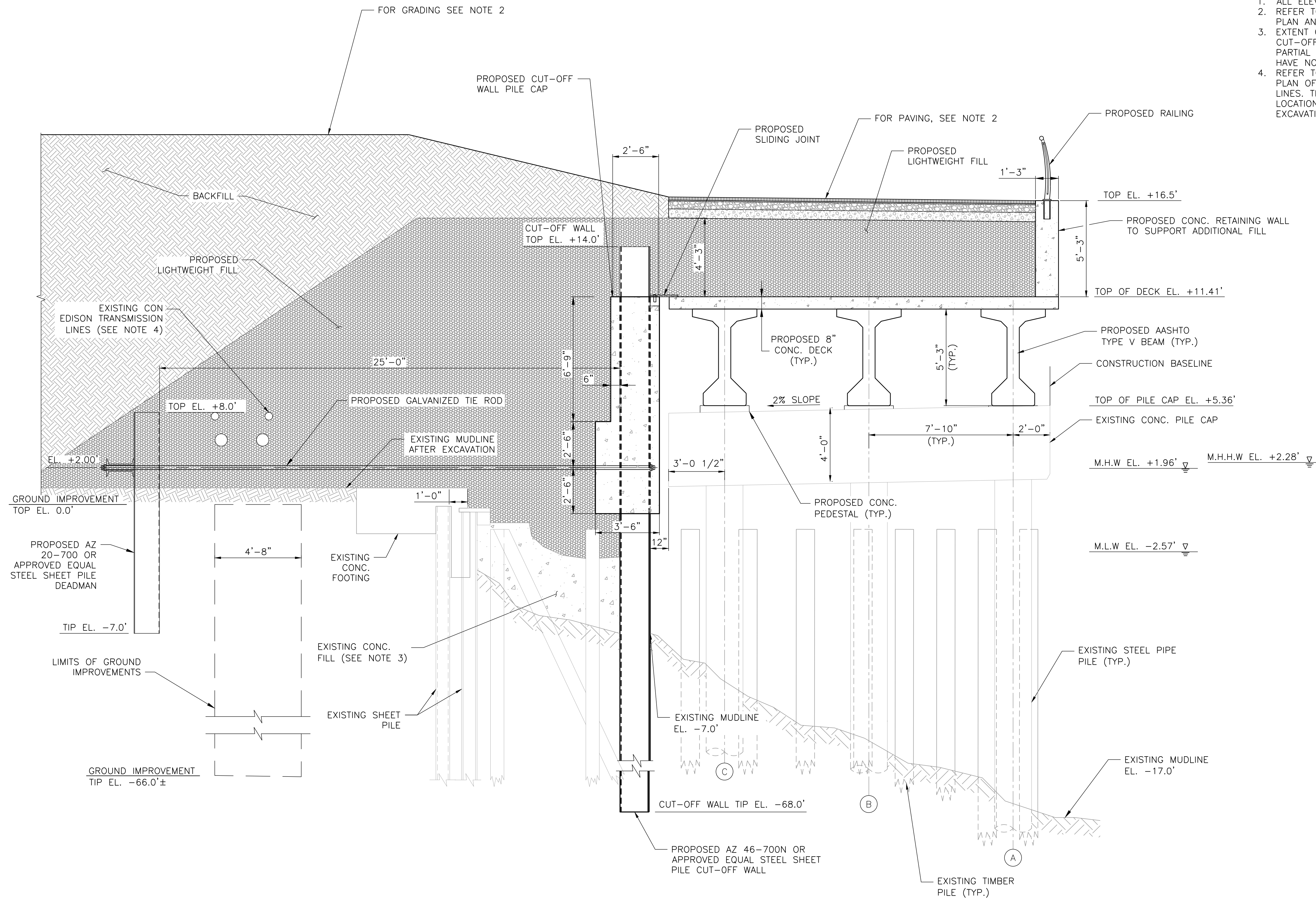
INSTALLATION OF
EAST SIDE COASTAL RESILIENCY
BOROUGH OF MANHATTAN

CAPITAL PROJECT NO. SANDRESM1 7/18/2019 SHEET 404 OF 1594 F539

REVISED MASS MAILING # 1 SUBMISSION 7/18/2019

NOTES:

1. ALL ELEVATIONS IN NAVD88 DATUM.
2. REFER TO SHEETS LG300-LG315 FOR SITE PLAN AND GRADING.
3. EXTENT OF VOIDS IN CONCRETE FILL BEHIND CUT-OFF WALL VARIES. SOME AREAS CONTAIN PARTIAL CONCRETE FILL, WHILE OTHER AREAS HAVE NO EXISTING CONCRETE FILL.
4. REFER TO SHEET F507 FOR THE POSITION IN PLAN OF THE CON EDISON TRANSMISSION LINES. THE CONTRACTOR SHALL CONFIRM THE LOCATION OF THESE LINES PRIOR TO EXCAVATION.



**PROPOSED ESPLANADE PLATFORM
ALTERNATE SECTION,
PRESTRESSED CONCRETE BEAMS ON EXISTING STRUCTURE (3 PILES)**

J-2
F507 SCALE 3/8" = 1'-0"

PRELIMINARY
SUBMITTED DATE: 7/18/2019

NO.	DATE	DESCRIPTIONS	BY	APPR'D

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

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DIVISION OF INFRASTRUCTURE
BUREAU OF DESIGN

ESPLANADE CROSS SECTIONS
SHEET 21 OF 21

CH2M
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INSTALLATION OF
EAST SIDE COASTAL RESILIENCY
BOROUGH OF MANHATTAN

CAPITAL PROJECT NO. SANDRESM1 7/18/2019

SHEET
405 OF 1594 F540