STUDIO/
GANG
/ARCHITECTS

USACE Update Meeting #2

Tom Lee Park

Project: 18015 : Tom Lee Park

Date: **05.06.19**

5/2/2019

Attendees:

SGA
William Emmick
Chris Bennett

SCAPE
John Donnelly
Wendy Andringa

Kimley Horn
Jennifer Peregoy
Lindsey Hearon

PSI
Matt Odom

Introductions

Project Status + Update (SGA)

Park Resiliency (SCAPE)

Dike Edge Section Updates (SCAPE)

Dike Edge Stabilization Strategies (SCAPE)

Park Building Locations (SGA)

Conclusion and Next Steps

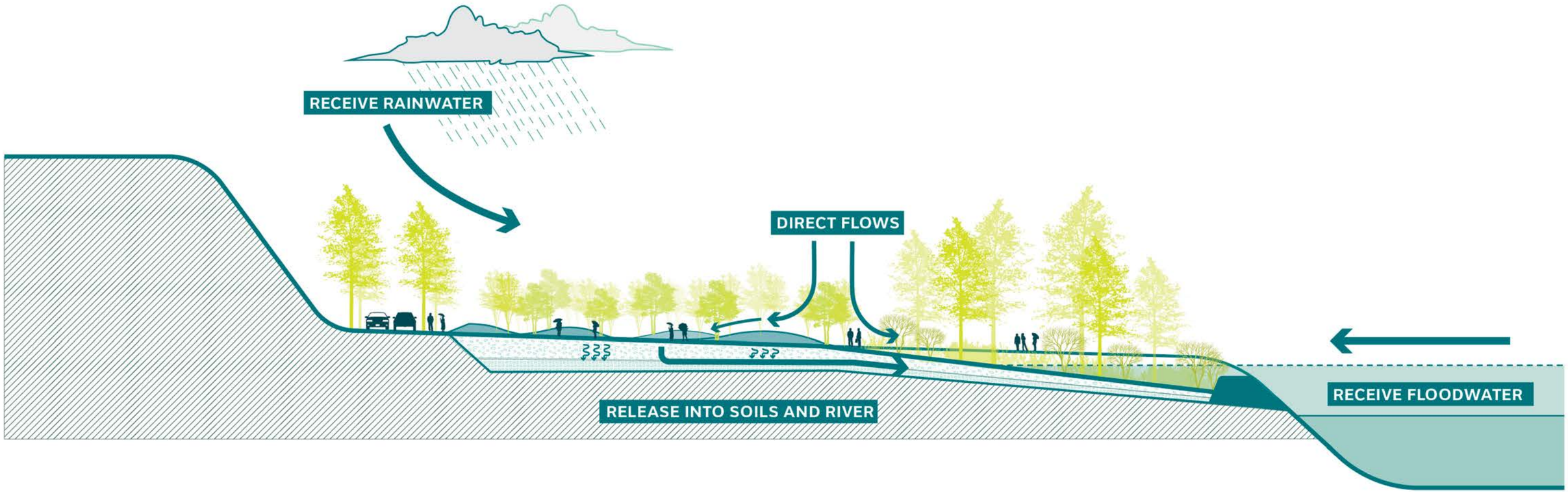
1520 W DIVISION ST
CHICAGO, IL 60642
+1 773 384 1212

50 BROAD ST
STE 1901
NEW YORK, NY 10004
+1 212 579 1514

STUDIOGANG.COM

PARK RESILIENCY

RESILIENCE CONCEPT DIAGRAM



RECEIVE

+ USE FLOODABLE SWALES TO CONTROL FLOODWATERS THAT ENTER THE PARK

+ USE ROBUST NATIVE PLANTING TO WITHSTAND INUNDATION

DIRECT

+ USE TOPOGRAPHY TO GUIDE STORMWATER INTO GREEN INFRASTRUCTURE

+ USE GREEN INFRASTRUCTURE TO INFILTRATE WATER INTO THE SOIL

RELEASE

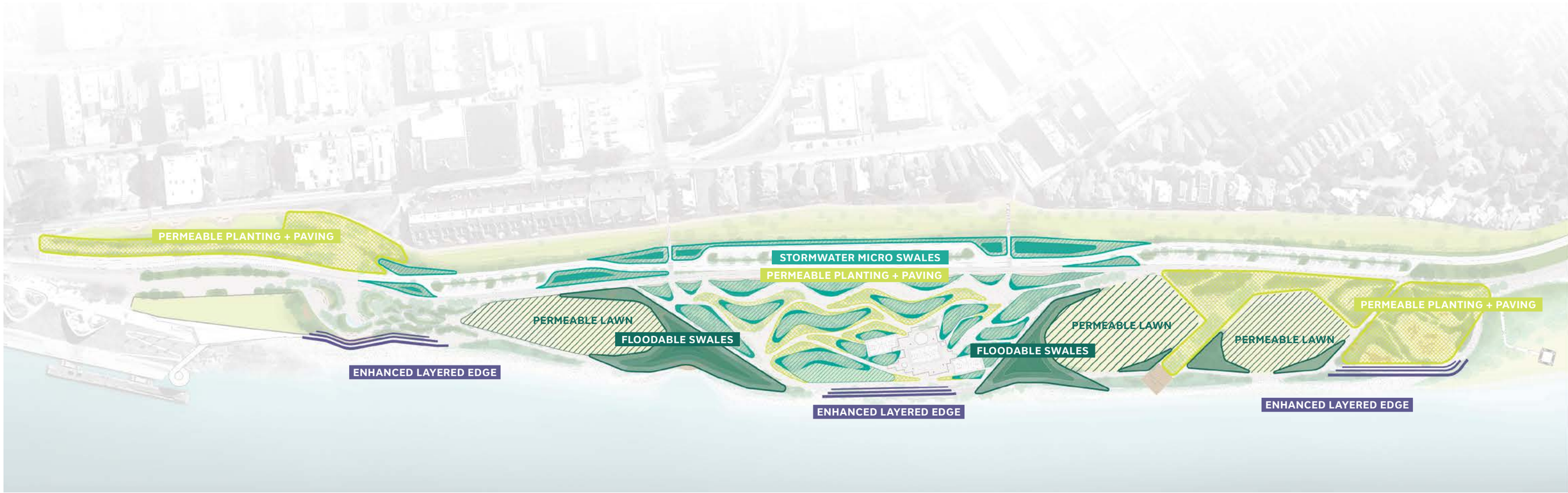
+ USE TOPOGRAPHY TO RELEASE FLOODWATER BACK TO THE RIVER

+ USE AMENDED SOILS TO RELEASE EXCESS WATER TO THE RIVER

TOM LEE PARK
MAY 06 2019

SCAPE

TOM LEE PARK RESILIENCE STRATEGY



FLOODABLE SWALES

INFRASTRUCTURAL EDGE THAT ALLOWS WATER FROM THE MISSISSIPPI RIVER INTO THE PARK IN A CONTROLLED MANNER

STORMWATER MICRO SWALES

EDGED OF TOPOGRAPHIC PLANTING AREAS TO CONTROL AND CAPTURE STORMWATER FLOWS WITHIN THE PARK

PERMEABLE LAWN

LARGE EXPANSES OF ENGINEERED SOILS THAT ALLOW FOR INFILTRATION OF WATER DURING STORM EVENTS

PERMEABLE PLANTING AND PAVING

INCREASED PLANTING AREAS FOR WATER UPTAKE AND WATER INFILTRATION. PERMEABLE GROUNDPLANE MATERIALS WILL ALSO ALLOW WATER INFILTRATION.

ENHANCED LAYERED EDGE

RIPRAP EDGES WILL INCORPORATE SEATING STEPS AND OTHER STONE LEDGES FOR ENHANCED INFRASTRUCTURE ANS SOCIAL SPACE.

TOM LEE PARK
WINTER 2019

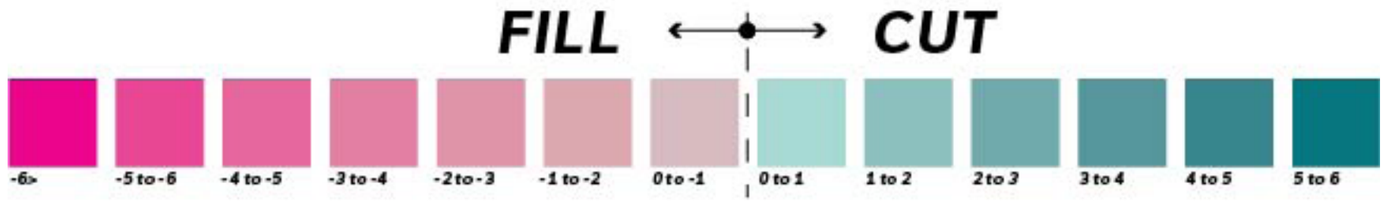
SCAPE

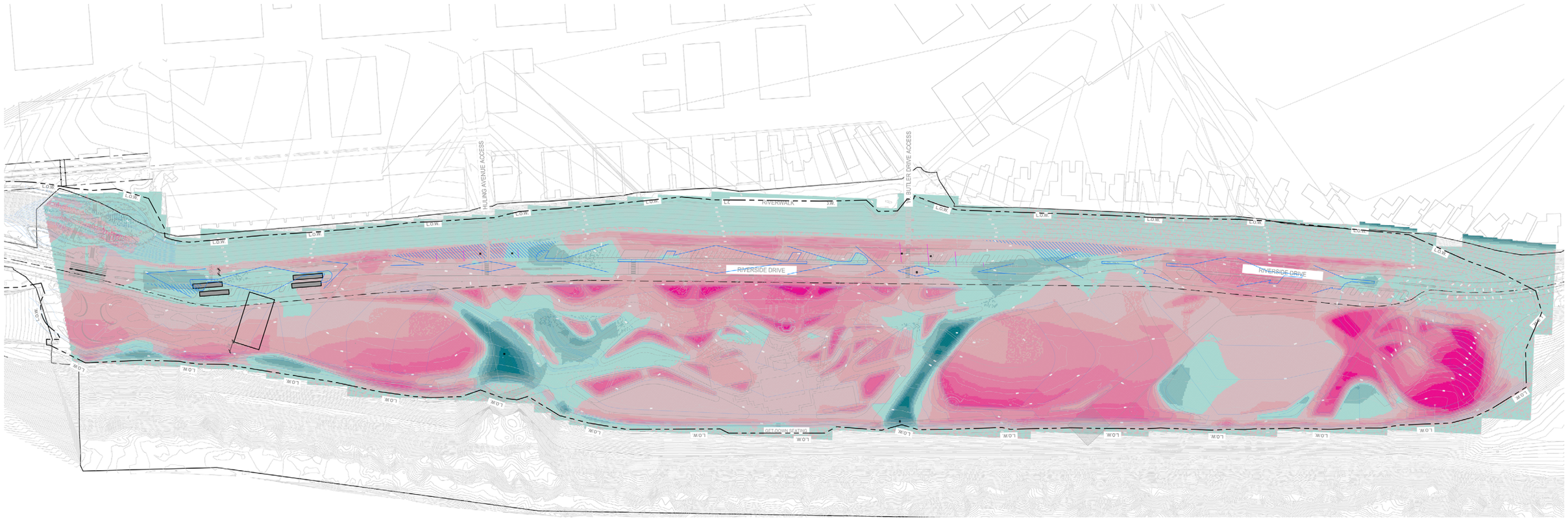
DIKE EDGE SECTION UPDATES

CUT AND FILL DIAGRAM

NTS

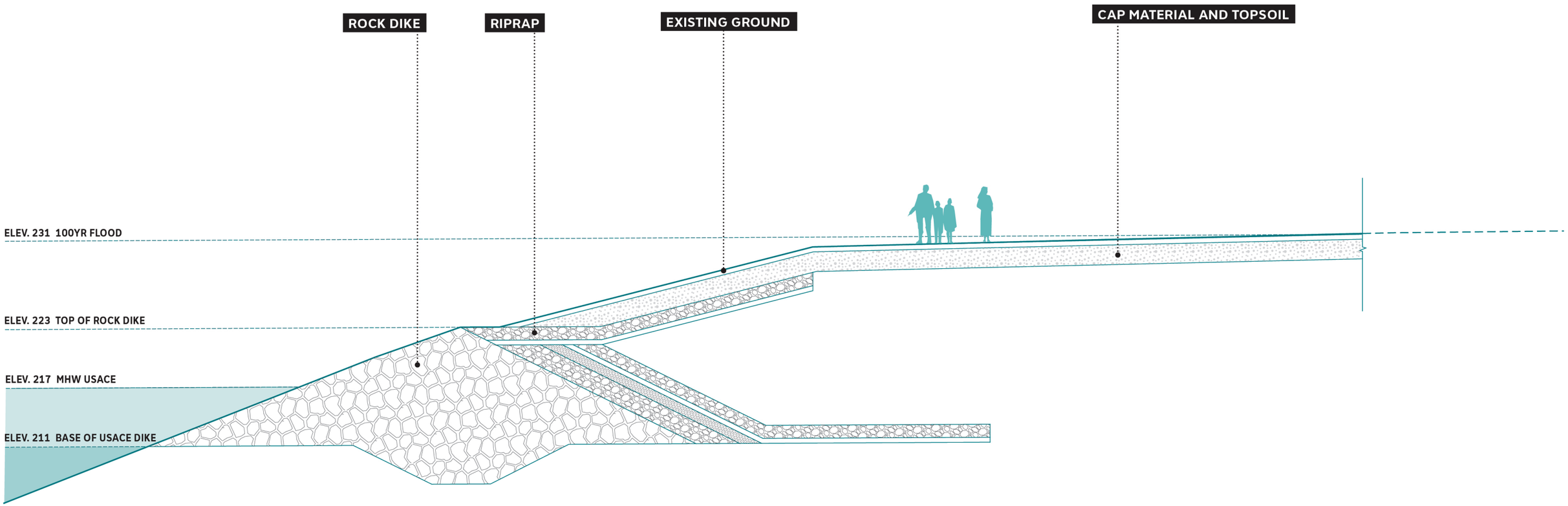
GRAPHIC OF CUT AND FILL FOR PROPOSED GRADING PLAN





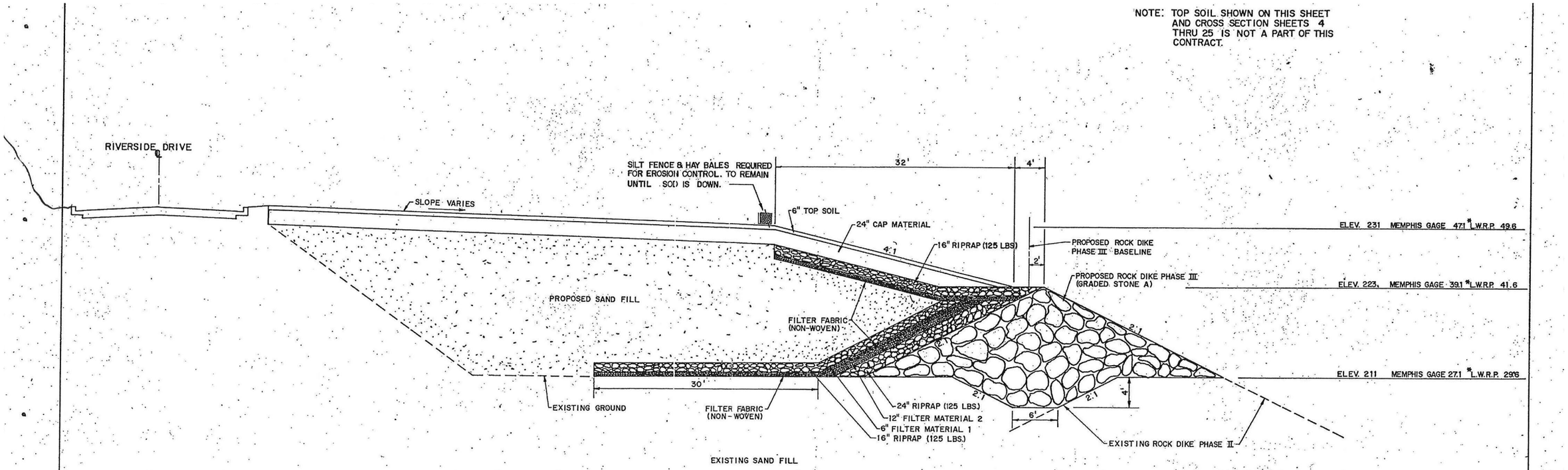
EXISTING EDGE CONDITION (ENLARGEMENT)

SCALE: 1”=10’-0”



ENGINEER'S TYPICAL DIKE SECTION

NOTE: TOP SOIL SHOWN ON THIS SHEET AND CROSS SECTION SHEETS 4 THRU 25 IS NOT A PART OF THIS CONTRACT.



PROJECT FLOOD ELEV.	238.4	N. G. V. D.
100 YEAR FLOOD ELEV.	231	N. G. V. D.
ZERO, MEMPHIS GAGE ELEV.	183.91	N. G. V. D.
*L.W.R.P. ELEV.	181.4	N. G. V. D.

*LOW WATER REFERENCE PLANE (1974)

ROCK DIKE - PHASE III
TYPICAL SECTION

N.T.S.

SHEET 26 OF 28

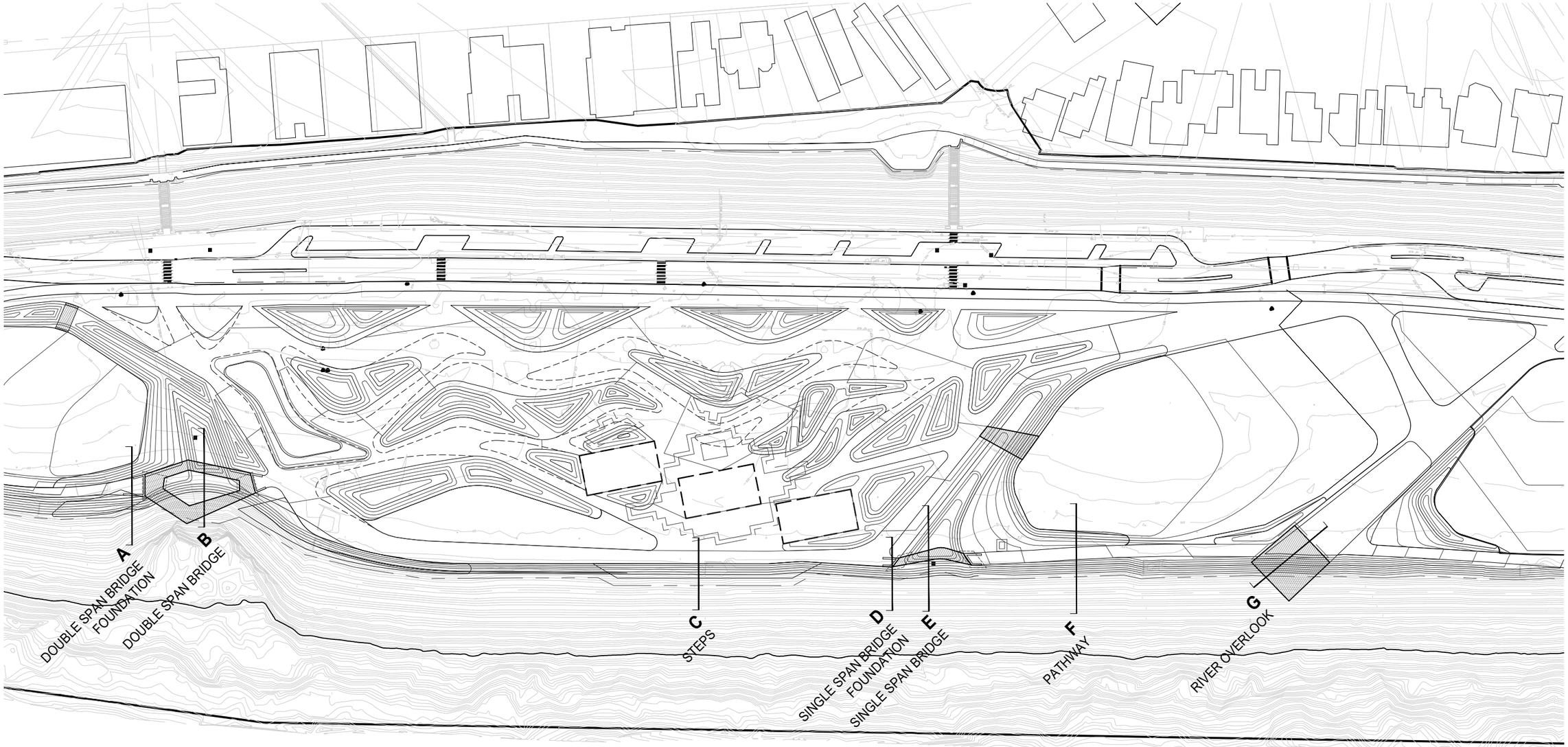
DIVISION OF ENGINEERING
MEMPHIS FRONT
DIKE CONSTRUCTION PHASE III
TYPICAL SECTION
MEMPHIS, TENN.

SURVEY _____ DATE _____ BOOK _____
DRAFTED _____ DATE _____ SCALE _____
DESIGN _____ DATE _____ CHECKED _____ DATE _____

APPROVED
DEPUTY CITY ENGINEER DATE — CITY ENGINEER DATE 3/10/72

W. R. HALL REGISTERED ENGINEER AGRICULTURE ENGINEERING No. 7248 STATE OF TENNESSEE

MICROFILMED



PROJECT NAME

TOM LEE PARK

MEMPHIS, TN

PREPARED BY:

SCAPE/LANDSCAPE ARCHITECTURE DPC

277 BROADWAY, SUITE 1606
NEW YORK, NY 10007
T. 212 462 2628 F. 212 462 4164
office@scapestudio.com

PROJECT NO.
0000

DATE:
April 10, 2019

SCALE:
1/128"=1'-0"

DRAWN BY:
LK

CHECKED BY:
WA

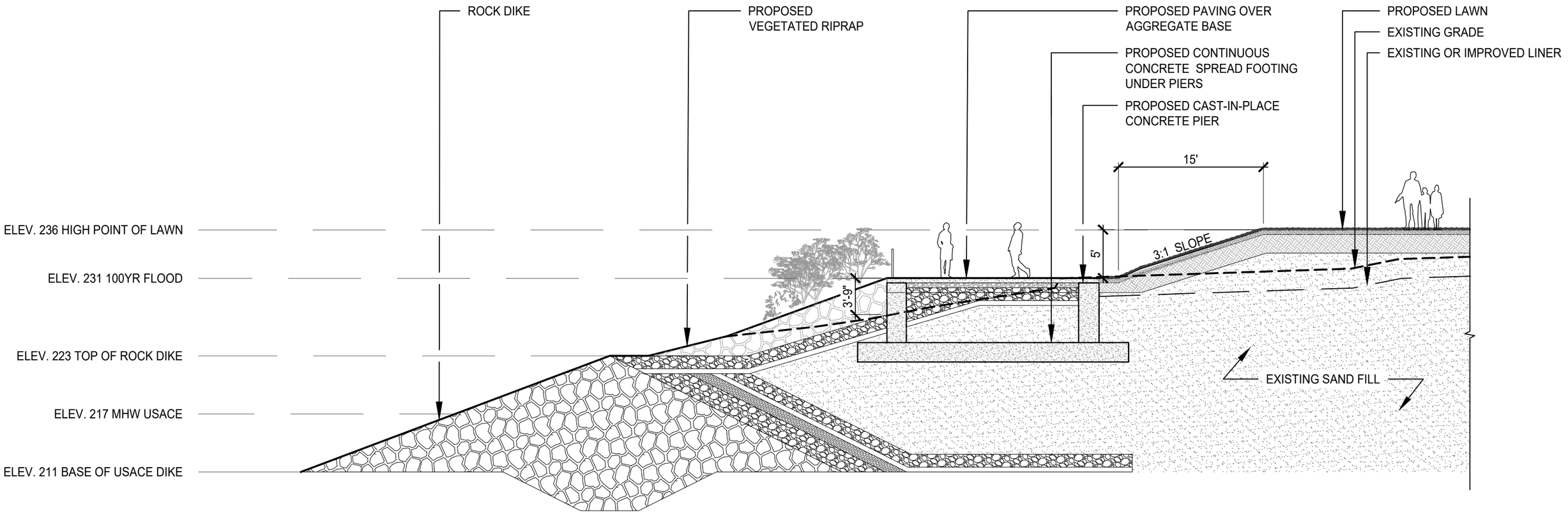
DRAWING TITLE

KEY MAP

DRAWING NO.

00

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A DOUBLE SPAN BRIDGE FOUNDATION

SCALE: 1" = 10'-0"

PROJECT NAME

TOM LEE PARK

MEMPHIS, TN

PREPARED BY:

SCAPE/LANDSCAPE ARCHITECTURE DPC

277 BROADWAY, SUITE 1606
NEW YORK, NY 10007
T. 212 462 2628 F. 212 462 4164
office@scapestudio.com

PROJECT NO. 1827

DATE: 5/1/2019

SCALE: 1"=10'-0"

DRAWN BY: LK

CHECKED BY: WA

DRAWING TITLE

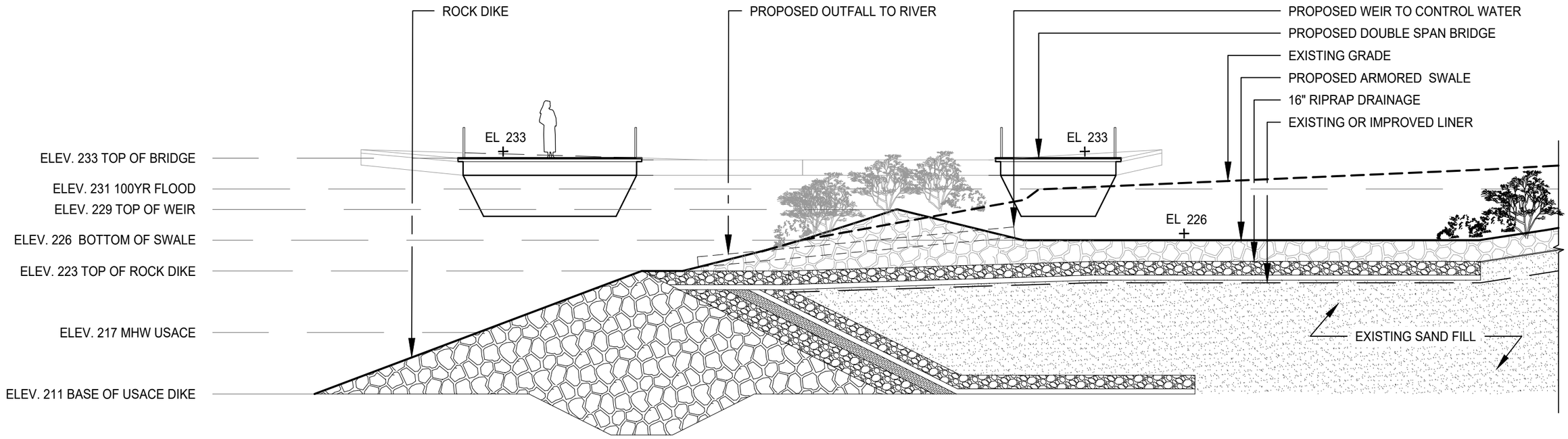
RIVER EDGE SECTION

DRAWING NO.

01

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P:\1827-SGA - Memphis Waterfront Park\05-Drawings\02-SD\PLT\SECTIONS FOR USACE.dwg Plotted on: 5/1/2019 2:15:55 PM



B

DOUBLE SPAN BRIDGE

SCALE: 1" = 10'-0"

PROJECT NAME

TOM LEE PARK

MEMPHIS, TN

PREPARED BY:

SCAPE/LANDSCAPE ARCHITECTURE DPC

277 BROADWAY, SUITE 1606
NEW YORK, NY 10007
T. 212 462 2628 F. 212 462 4164
office@scapestudio.com

PROJECT NO. 1827

DATE: 5/1/2019

SCALE: 1"=10'-0"

DRAWN BY: LK

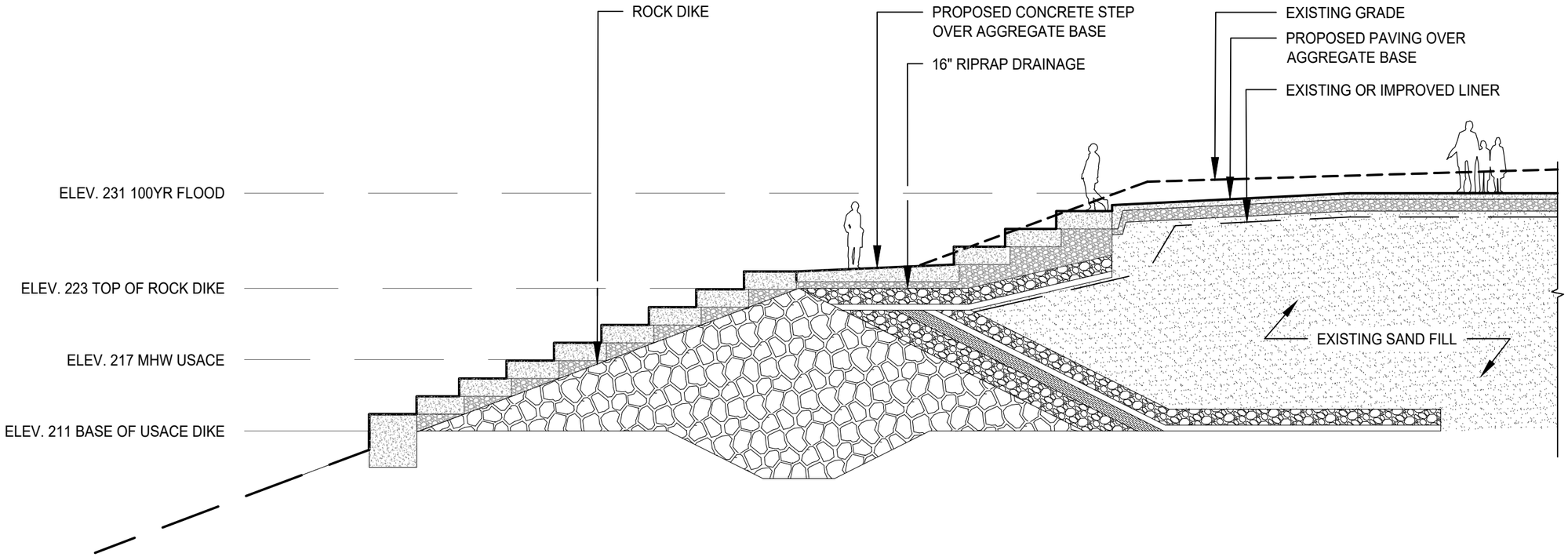
CHECKED BY: WA

DRAWING TITLE

RIVER EDGE SECTION

DRAWING NO. 02

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C STEPS

SCALE: 1" = 10'-0"

PROJECT NAME

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MEMPHIS, TN

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NEW YORK, NY 10007
T. 212 462 2628 F. 212 462 4164
office@scapestudio.com

PROJECT NO. 1827

DATE: May 1, 2019

SCALE: 1"=10'-0"

DRAWN BY: LK

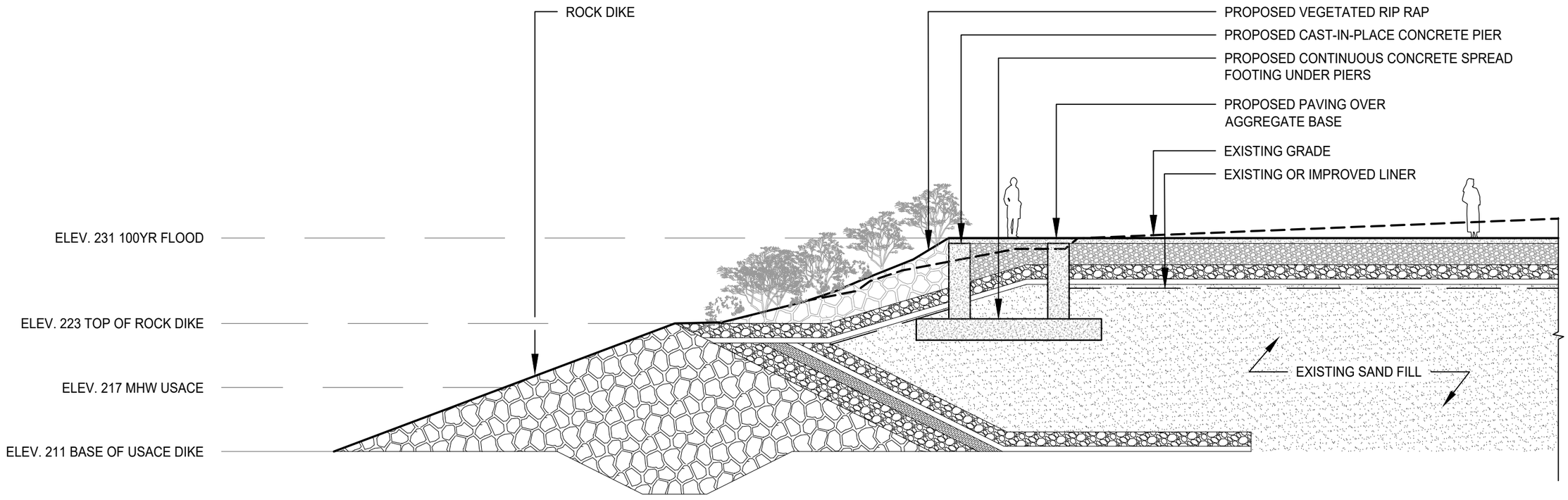
CHECKED BY: WA

DRAWING TITLE

RIVER EDGE SECTION

DRAWING NO. 03

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D SINGLE SPAN BRIDGE FOUNDATION

SCALE: 1" = 10'-0"

PROJECT NAME

TOM LEE PARK

MEMPHIS, TN

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277 BROADWAY, SUITE 1606
NEW YORK, NY 10007
T. 212 462 2628 F. 212 462 4164
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PROJECT NO. 1827

DATE: 14:26

SCALE: 1"=10'-0"

DRAWN BY: LK

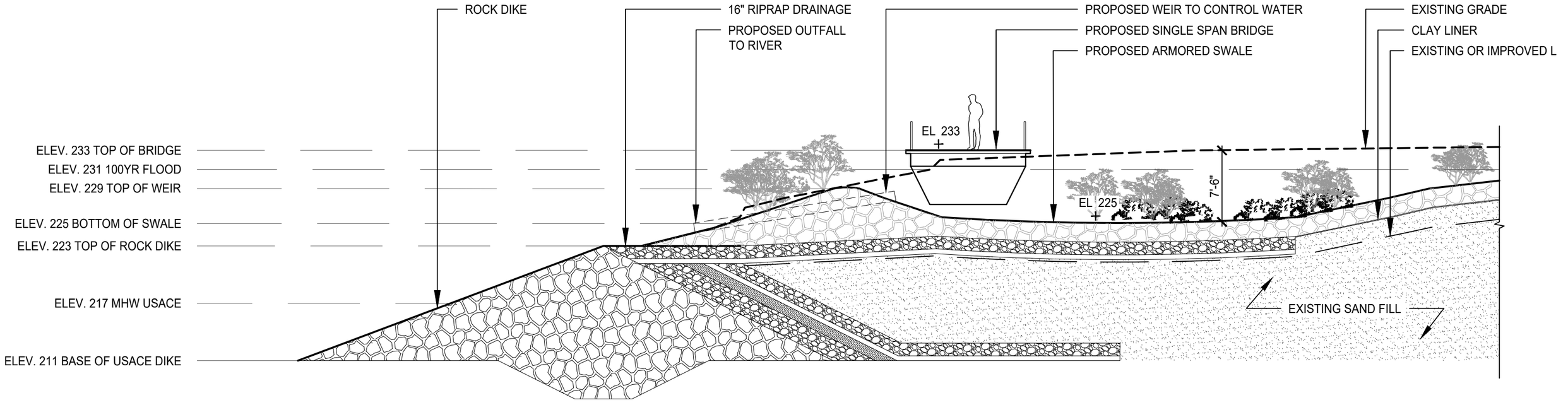
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DRAWING TITLE

RIVER EDGE SECTION

DRAWING NO. 04

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E SINGLE SPAN BRIDGE

SCALE: 1" = 10'-0"

PROJECT NAME

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277 BROADWAY, SUITE 1606
NEW YORK, NY 10007
T. 212 462 2628 F. 212 462 4164
office@scapestudio.com

PROJECT NO. 1827

DATE: May 1, 2019

SCALE: 1"=10'-0"

DRAWN BY: LK

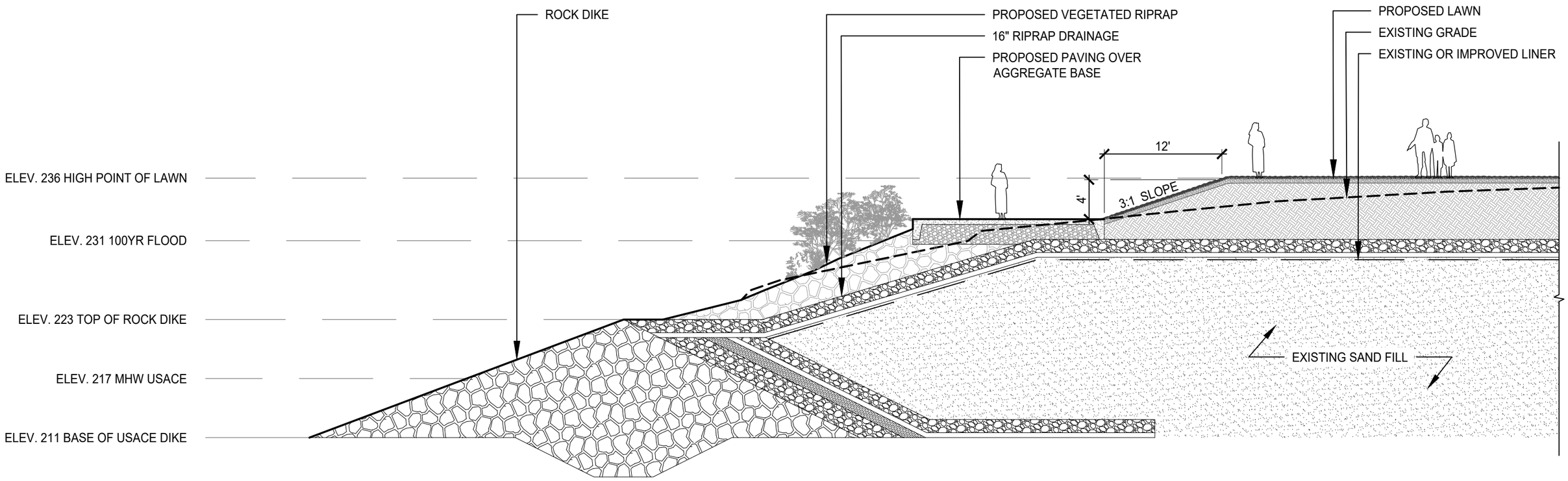
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DRAWING TITLE

RIVER EDGE SECTION

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F

PATHWAY

SCALE: 1" = 10'-0"

PROJECT NAME

TOM LEE PARK

MEMPHIS, TN

PREPARED BY:

SCAPE/LANDSCAPE ARCHITECTURE DPC

277 BROADWAY, SUITE 1606
NEW YORK, NY 10007
T. 212 462 2628 F. 212 462 4164
office@scapestudio.com

PROJECT NO. 1827

DATE: May 1, 2019

SCALE: 1"=10'-0"

DRAWN BY: LK

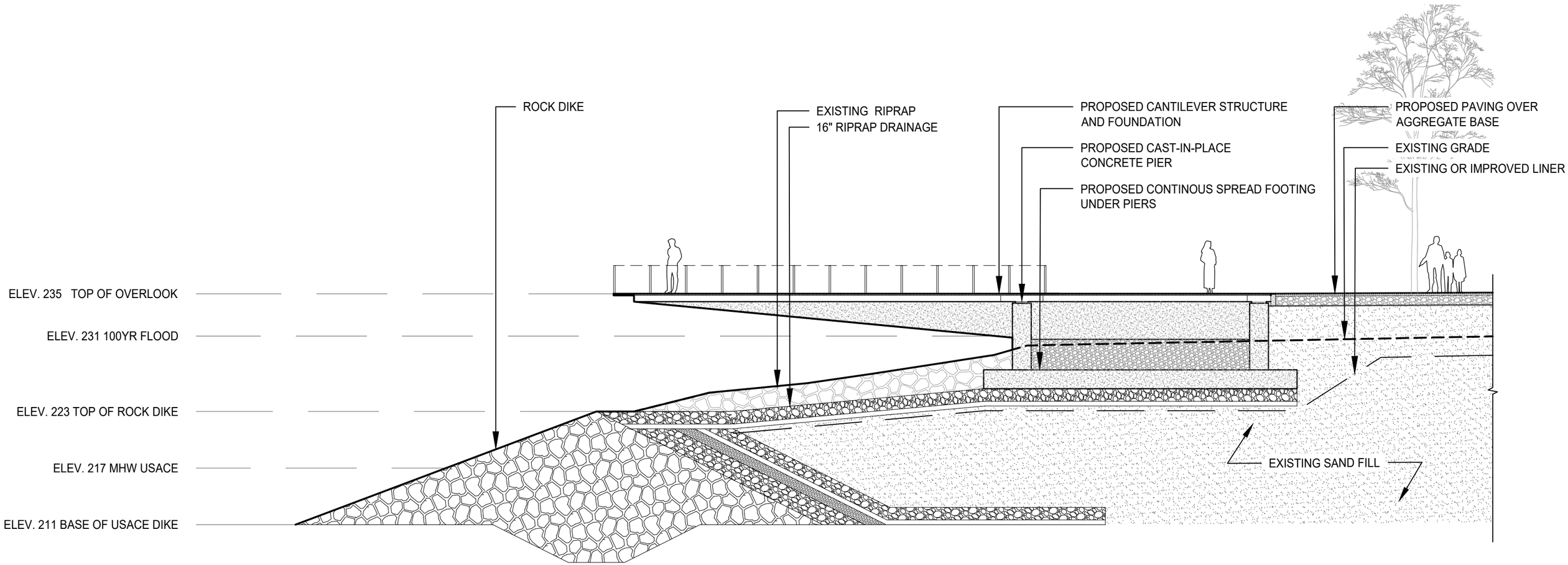
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DRAWING TITLE

RIVER EDGE SECTION

DRAWING NO. 06

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G RIVER OVERLOOK

SCALE: 1" = 10'-0"

PROJECT NAME

TOM LEE PARK

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277 BROADWAY, SUITE 1606
NEW YORK, NY 10007
T. 212 462 2628 F. 212 462 4164
office@scapestudio.com

PROJECT NO. 1827

DATE: May 1, 2019

SCALE: 1"=10'-0"

DRAWN BY: LK

CHECKED BY: WA

DRAWING TITLE

RIVER EDGE SECTION

DRAWING NO.

07

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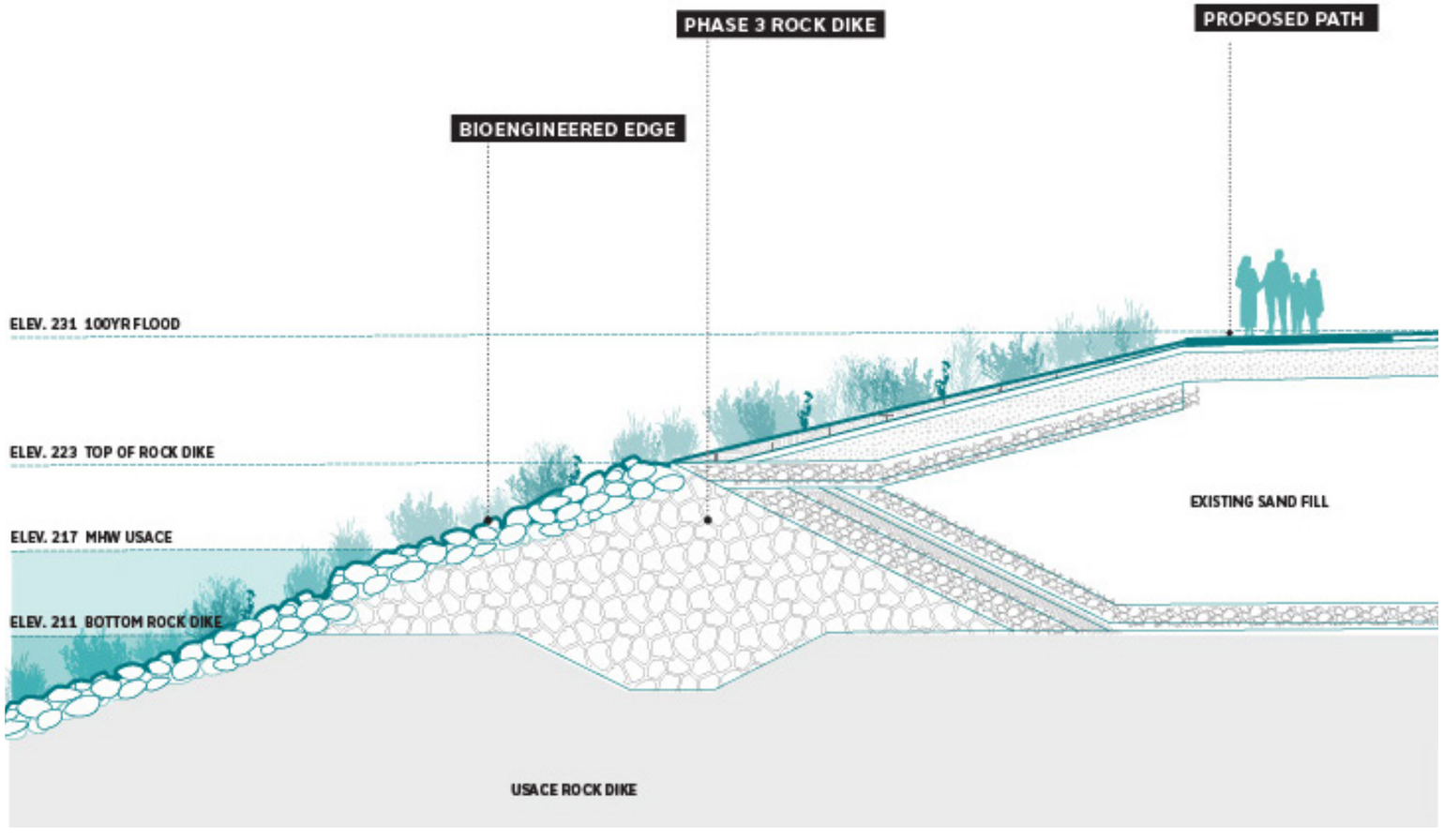
DIKE EDGE STABILIZATION

COMPOST GROUTING

SCALE: 1”=10’-0”

IN SHORELINE APPLICATIONS, COMPOST GROUTING WILL HELP ESTABLISH A LIVE COVER TO STABILIZE A RIPRAP REVETMENT.

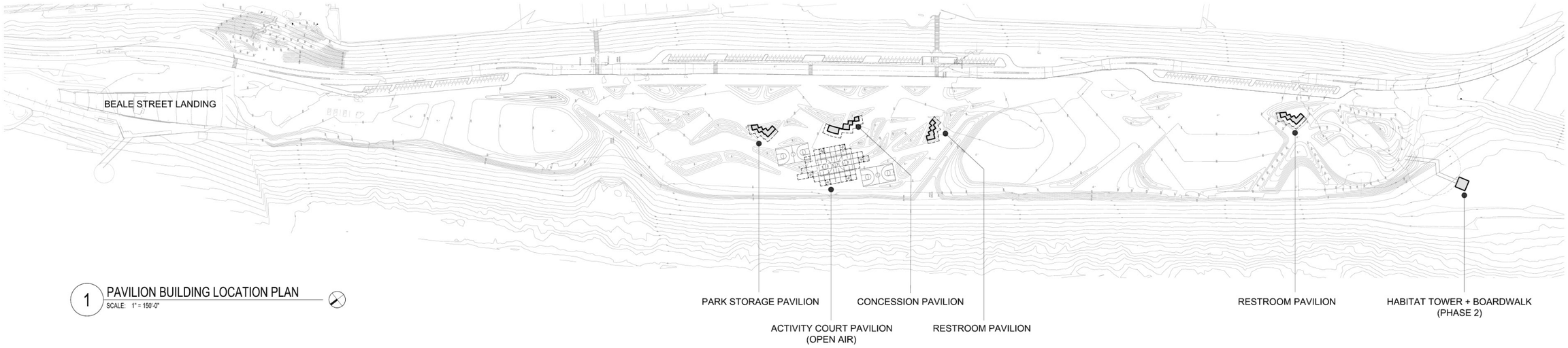
INSTALLATION IS BY PNEUMATICALLY INJECTING A COMPOST SOIL INTO RIPRAP VOIDS AND OVERSEEDING WITH A RESILIENT, NATIVE GRASS MIX AND PLANTING LIVE PLANTS.



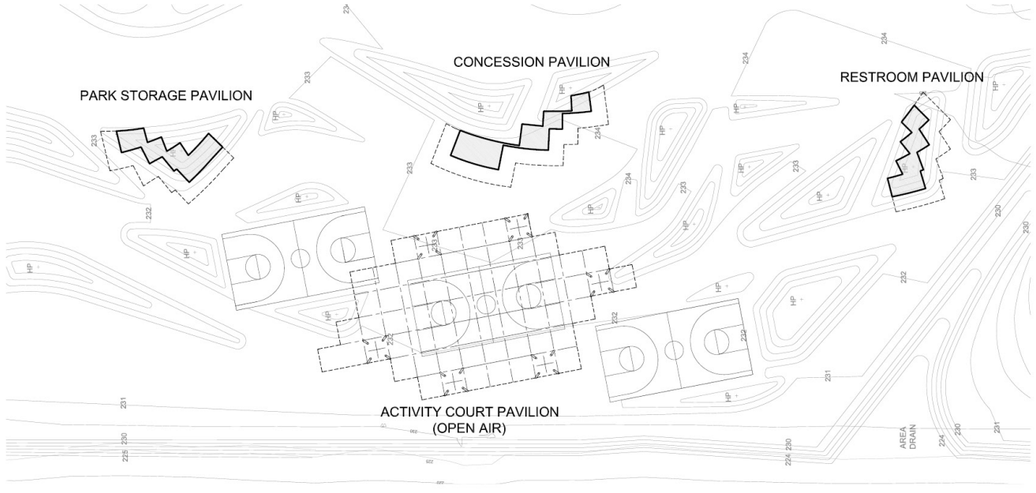




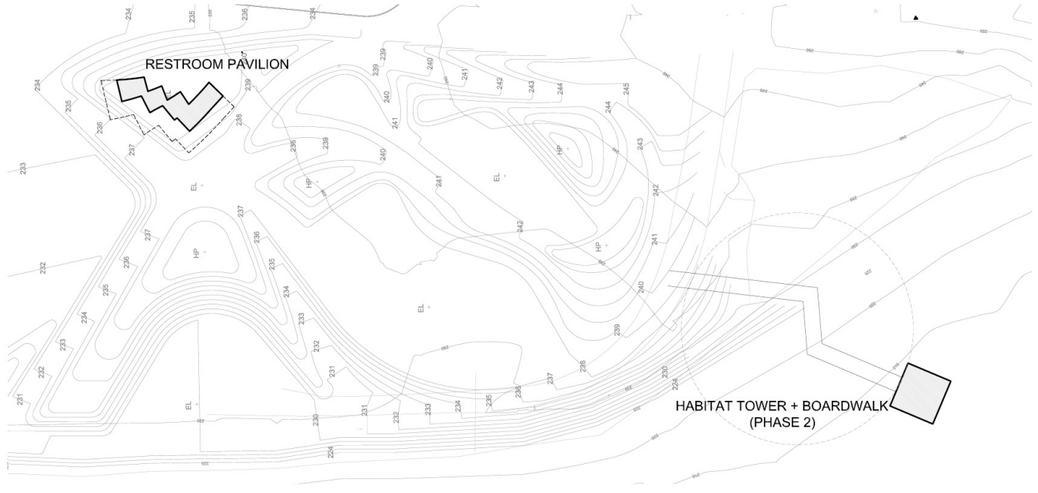
PARK BUILDING LOCATIONS



1 PAVILION BUILDING LOCATION PLAN
SCALE: 1" = 150'-0"



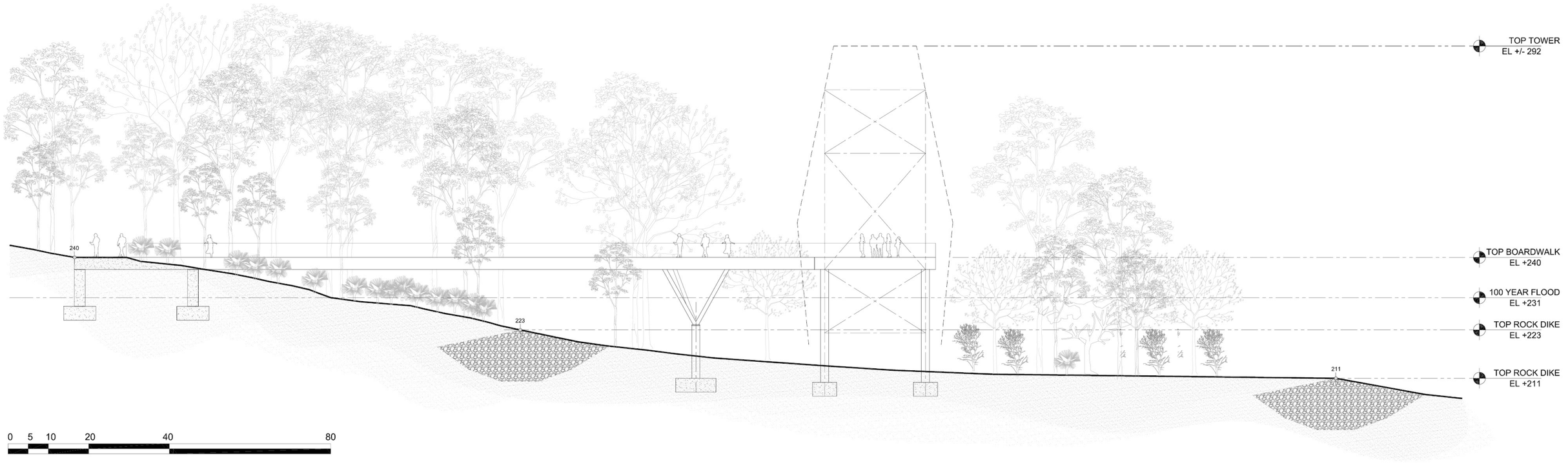
2 RIFFLE PAVILIONS PLAN DETAIL
SCALE: 1" = 50'-0"



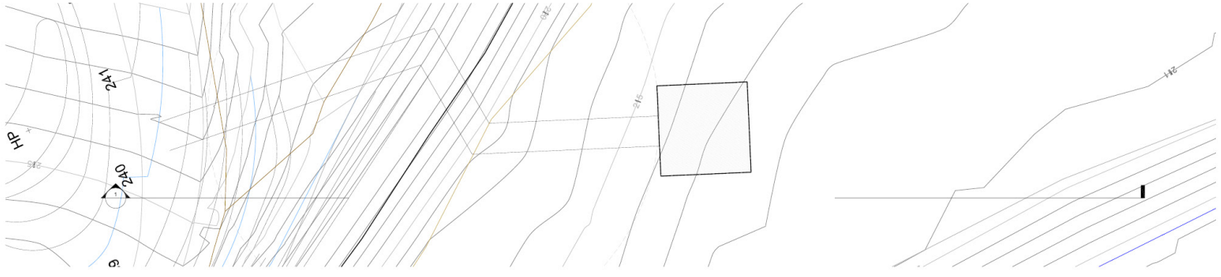
3 TAILOUT PAVILION PLAN DETAIL
SCALE: 1" = 50'-0"

Project No.: 18015 - Tom Lee Park
Drawn: CB Date: 05.01.19
Checked: Scale: NOTED
Sheet Title:
PAVILION BUILDING LOCATIONS
Drawing Number:
A-100


BOARDWALK
Ashburn-Coppock
Park
TOWER
30'x30' footprint
TOP OF ROCK DIKE
223
BOTTOM SPLIT DIKE
218
TOP SPLIT DIKE
210
Riverwalk
Riverwalk



1 EW SECTION AT HABITAT TOWER
SCALE: GRAPHIC



Project No.:	18015 - Tom Lee Park
Drawn: CB	Date: 05.01.19
Checked: CB	Scale: GRAPHIC

Sheet Title:
HABITAT TOWER SECTION

Drawing Number:

A-300

NEXT STEPS