

# NATIONAL PARK SERVICE NATIONAL MALL AND MEMORIAL PARKS

National Historic Preservation Act

Section 106

Consulting Parties Meeting #1

August 2, 2022



NAMA 318722



# VIRTUAL MEETING OVERVIEW

---

- This meeting will be **recorded**
- Type your questions into the Meeting Chat
- Questions will be answered at the end of the presentation as time allows
- Questions or comments submitted as part of this meeting will **not** be considered formal comments on the project
  - Formal comments must be submitted online or postmarked by September 12, 2022

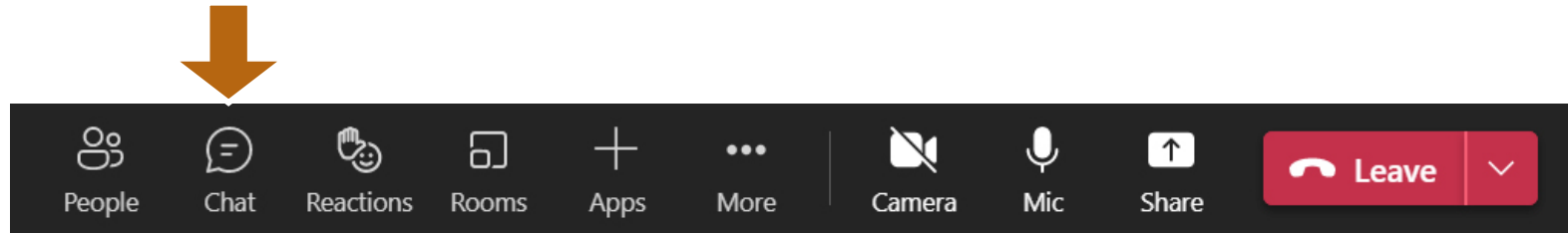




# HOW TO ASK A QUESTION

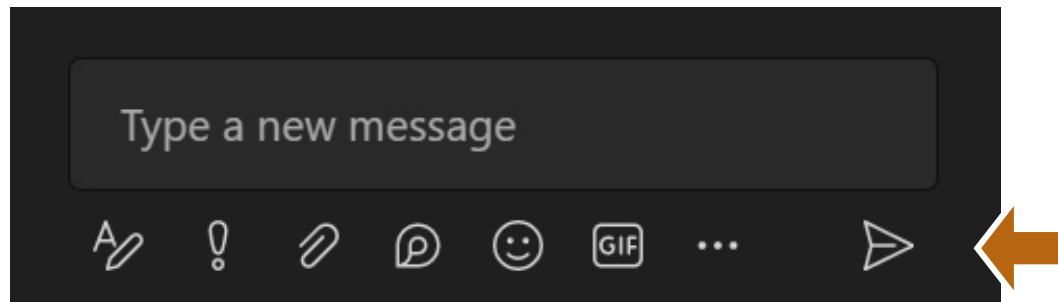
---

1. Click on the “Chat” icon at the top of your screen.



2. The Meeting Chat panel will open on the right side of the screen.

3. Enter your question into the text box and select **Send**. ➤





# AGENDA

---

1. Introductions
2. Project Undertaking
3. History of Seawall
4. Existing Conditions
5. National Historic Preservation Act and Section 106 Process
6. Identification of Historic Properties
7. Preliminary Concepts
8. Discussion, Questions, and Comments
9. Next Steps







# 01

---

## INTRODUCTIONS



# INTRODUCTIONS

---

- NPS National Capital Region
- NPS National Mall and Memorial Parks
- JV Team:
  - HDR
  - Moffatt & Nichol
  - EHT Traceries
  - InterAgency
  - Annapolis Landscape Architects
- Consulting Parties





# 02

---

## PROJECT UNDERTAKING



# PROJECT UNDERTAKING

---



To rehabilitate approximately 6,800 feet of seawall in Tidal Basin and West Potomac Park to its historic functional height. Their deteriorated condition, combined with land settlement and sea level rise, have created regular flooding in the Project Area, affecting park visitation and the landscape itself.







PROJECT AREA





# 03

---

## HISTORY OF SEAWALL

# HISTORY OF SEAWALLS



1791 L'Enfant Plan (Library of Congress (LOC))

- Not historically part of L'Enfant's Plan for the City of Washington.
- Land reclamation was part of larger national movement to sanitize, expand, and beautify polluted, dense, and urban landscapes in the late 19<sup>th</sup> century.
- Vital sanitary measure
- Flood control device
- Enhanced river navigation
- Created new acreage for urban development



# POTOMAC FLATS



1861 Boschke Map (LOC)

For much of the early 19<sup>th</sup> century an increased number of open sewers and river-side ports made the flats susceptible to:

- Flooding
  - Sedimentation
  - Pollution
- 
- As early as 1866 plans began to dredge and reclaim 166 acres around Long Bridge.



# POTOMAC FLATS

1870s: Army Corps of Engineers (ACOE) begin dredging Potomac River for shipping channels.

1875: Sylvanus Thayer Abert first proposed filling in Potomac Flats to reclaim land.

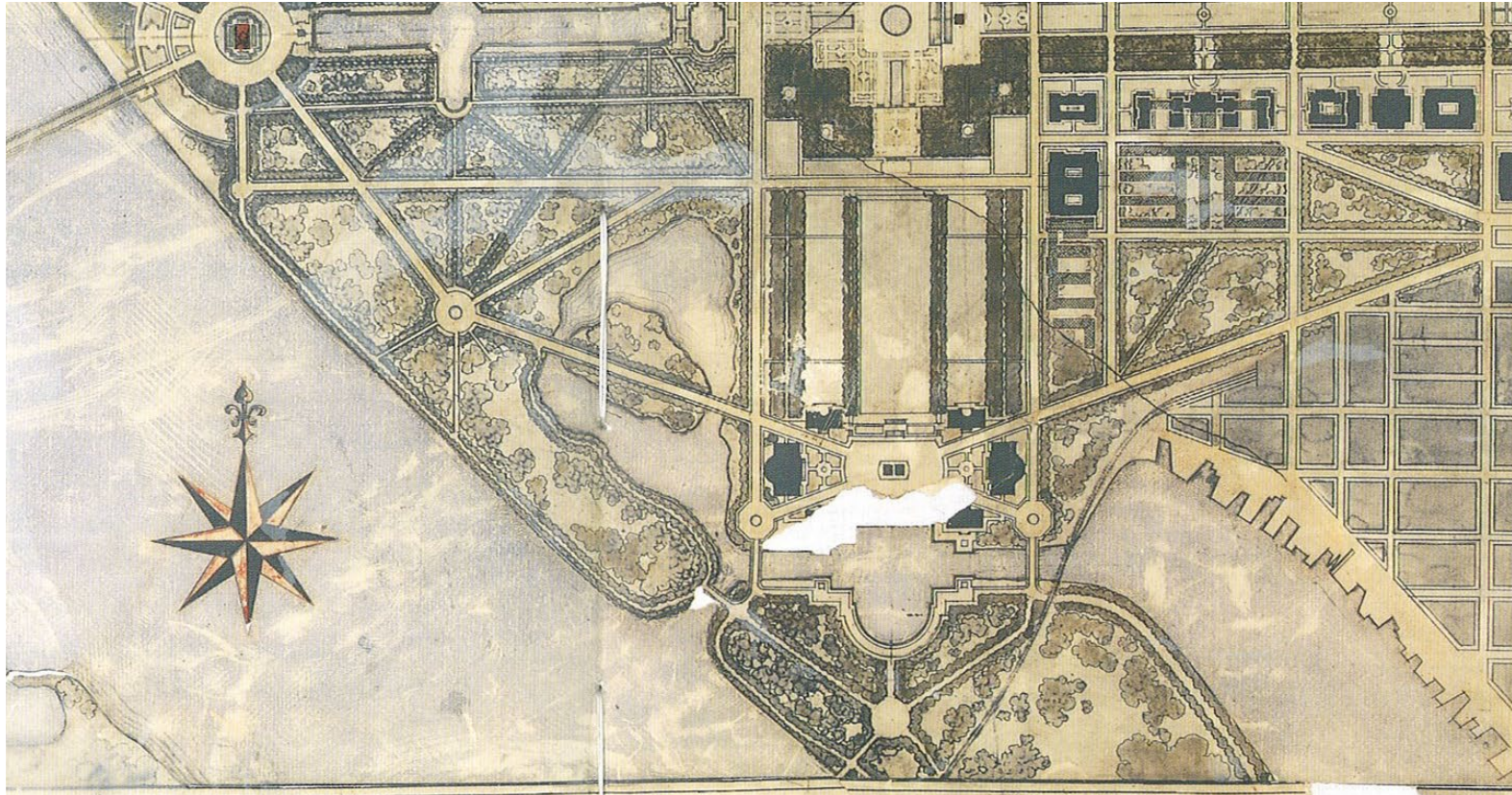
1879: Major W. J. Twining proposed to close Washington Channel at upper end and create four basins.



1884 Sachse Map (LOC)



# TIDAL BASINS



1901 Sachse Map (LOC)

Design went through many iterations.

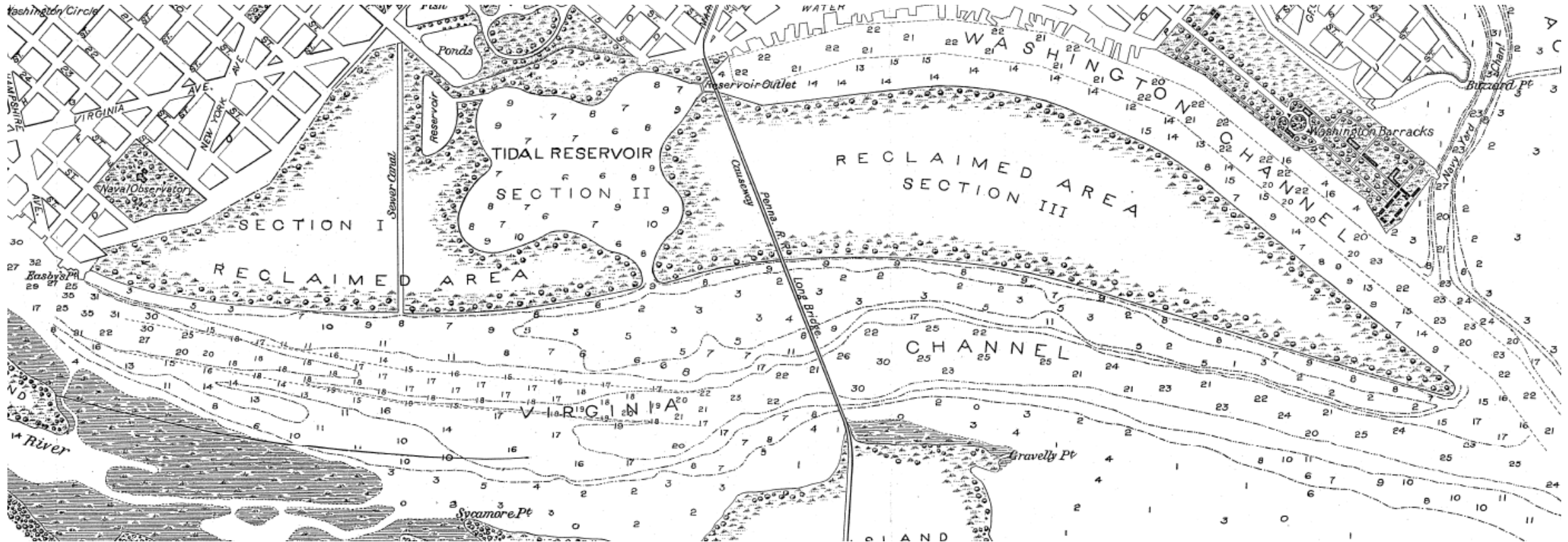
Between 1882 and 1896, ACOE dredged more than 12 million cubic yards to create more than 600 acres of new land.

Formally declared a public park in 1897.





# RECLAMATION EFFORT

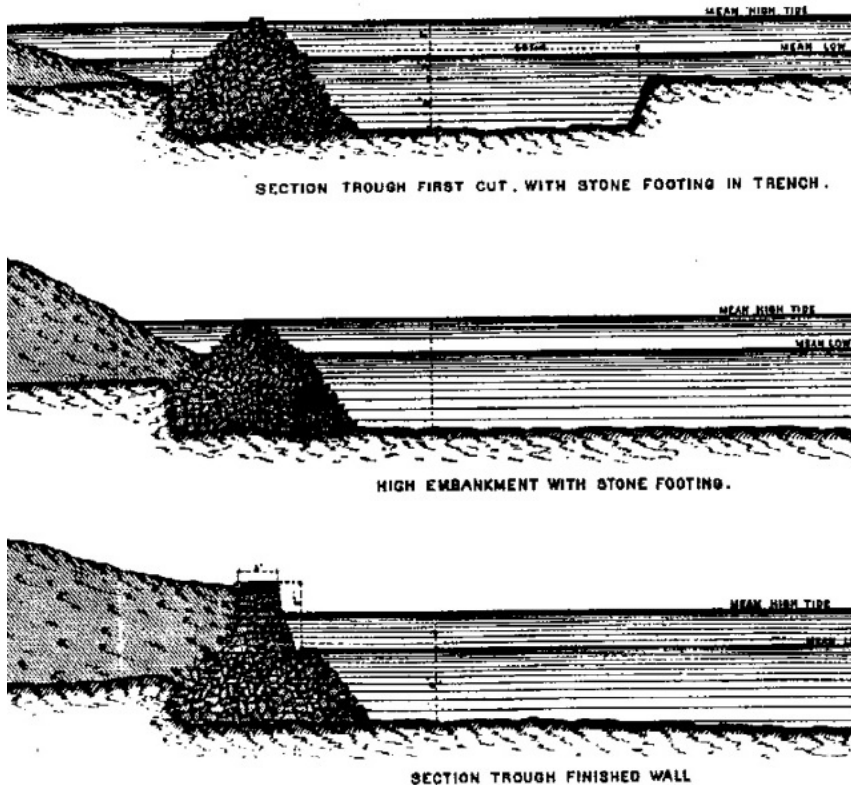


Progress map 1896 (ACOE)

1896



# WALLS

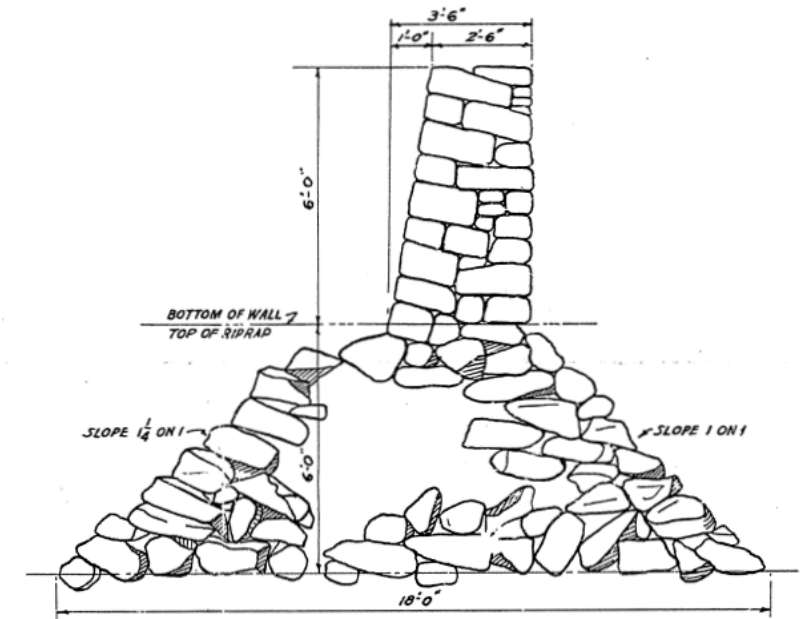


*c. 1885 Hains' Diagram (NPS)*

Most foundations constructed by late-1880s.

Walls capped in early 1890s:

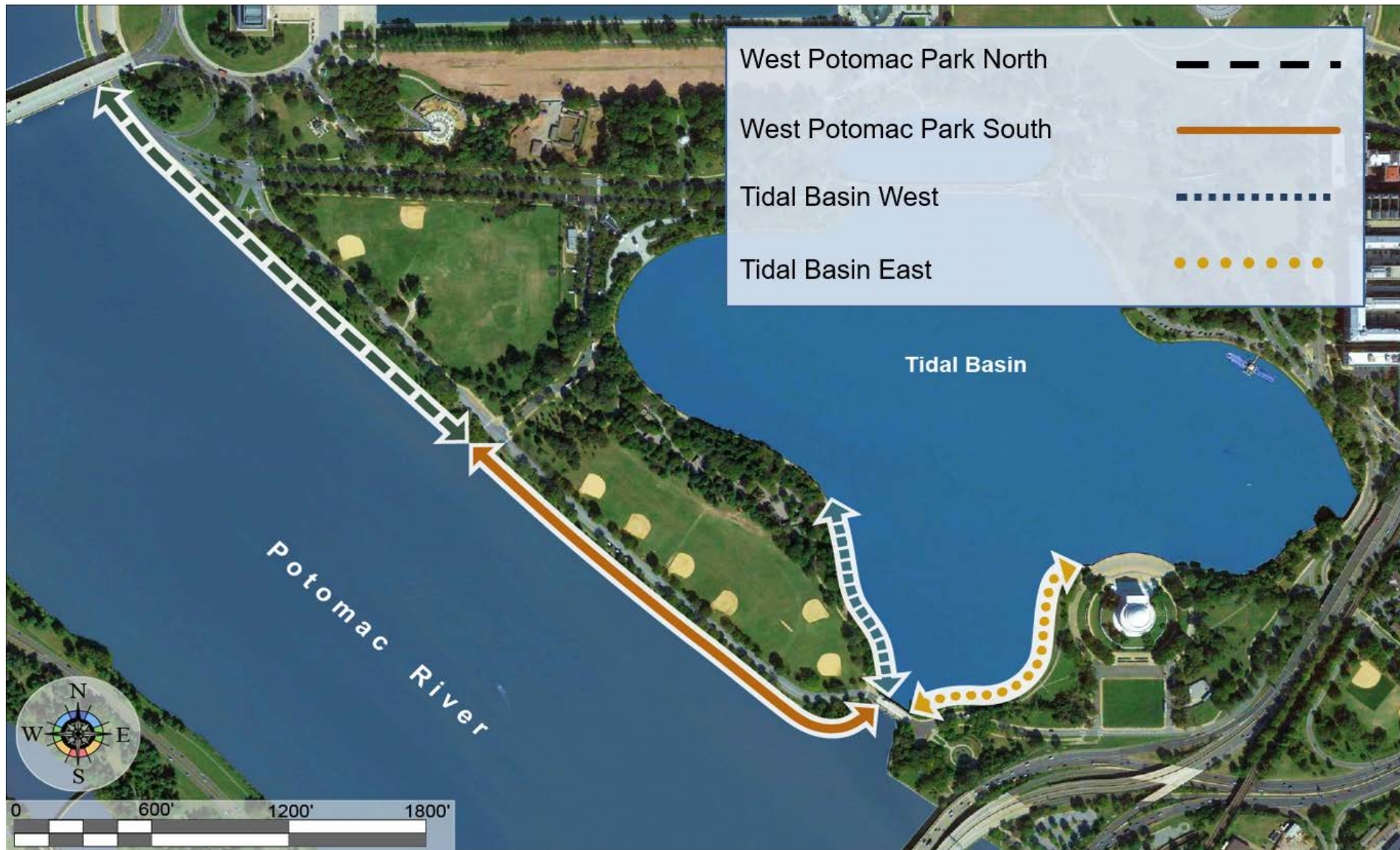
- Rip-rap foundation
- Stone walls 6' high, 4' thick at base, 2 ½' thick at top



*Original Seawall Design Cross Section (NPS 1940)*







FOUR DISTINCT SECTIONS



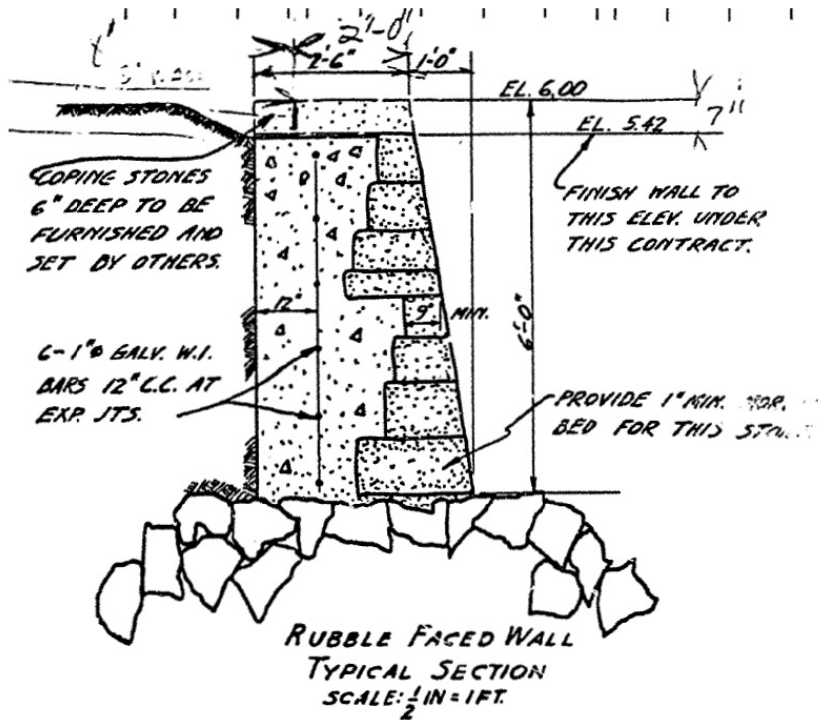
# TIDAL BASIN EAST



- Late 1930s: Tidal Basin adjusted for Jefferson Memorial
- 1940: New seawall alignment completed
- 1942: Railing extended around Tidal Basin
- Railing removed at unknown date



# TIDAL BASIN EAST



Typical 1940s Tidal Basin East Seawall section







(NPS)

## TIDAL BASIN EAST CONSTRUCTION C. 1939







(NPS c. 1942)



# HISTORIC SEAWALL HEIGHT





# TIDAL BASIN WEST

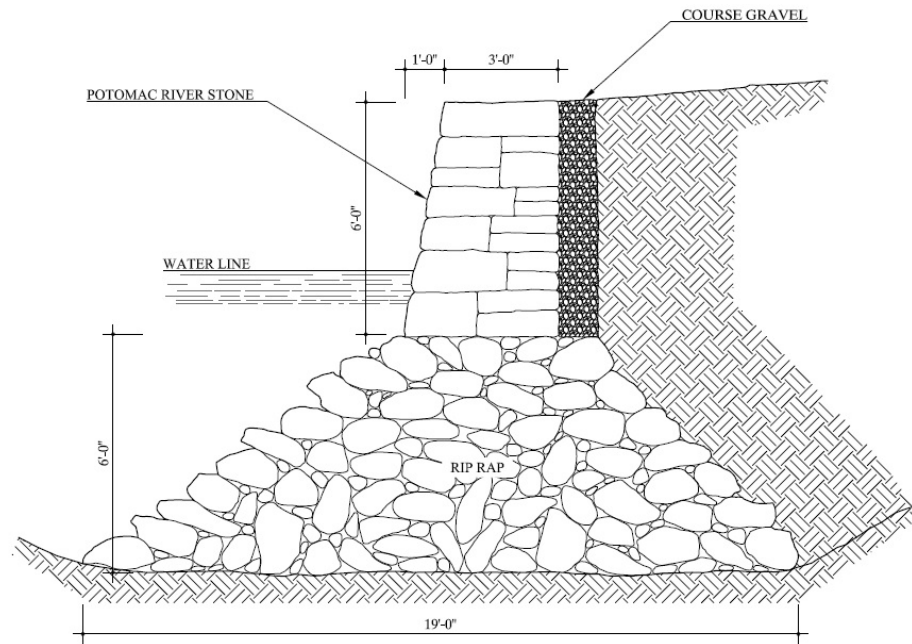


- 1909: Walls reconstructed due to construction of Inlet Bridge
- 1941: Seawall coping added – 8" thick concrete coping
- 1942: Railing extended around Tidal Basin
- Railing removed at unknown date





# TIDAL BASIN WEST



TYPICAL ORIGINAL SECTION - WALLS B, C (1907)

1/2"=1'-0"

1:24

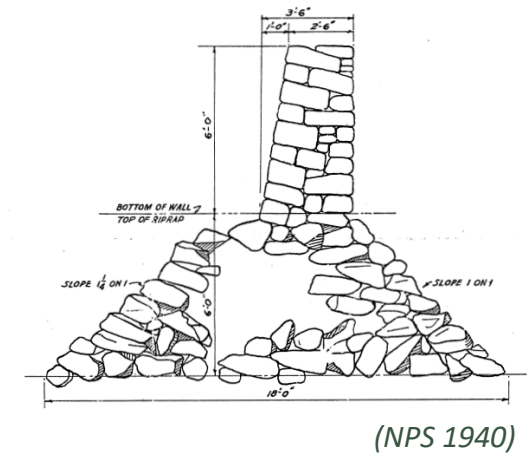
*Section from Cultural Landscape Report (NPS)*





# WEST POTOMAC PARK SOUTH

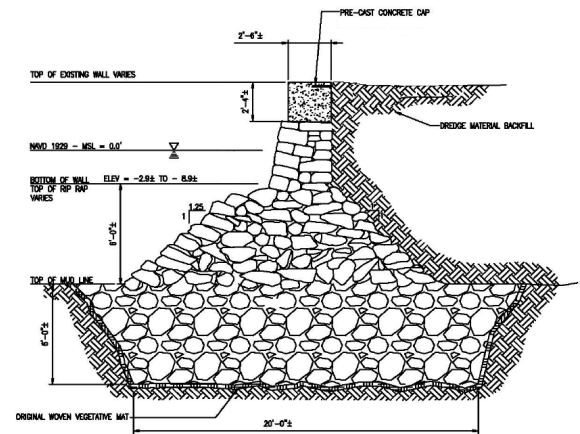
- 1884: Foundations completed
- 1890-1891: Top of wall completed
- Riprap and other materials continued to be added as late as the 1990s





# WEST POTOMAC PARK NORTH

- 1957: Section rebuilt by PEPCO
- Unknown how much of the historic foundation remains



*Assumed Concrete Repair (Dewberry 2011)*





# 04

---

## EXISTING CONDITIONS





EXISTING CONDITIONS







EXISTING CONDITIONS







EXISTING CONDITIONS







EXISTING CONDITIONS





# 05

---

## NATIONAL HISTORIC PRESERVATION ACT AND SECTION 106 PROCESS



# SECTION 106

---

## Federal Agencies must:

- Consider and determine the direct AND indirect effects of a proposed undertaking on historic properties
- Consult with State Historic Preservation Officers (SHPOs), Tribes, and other consulting parties
- Identification of historic properties within the Area of Potential Effect
- Avoid, minimize, or mitigate adverse effects to historic properties
- See: 36 CFR Part 800 (Protection of Historic Properties)





# CONSULTING PARTY INVOLVEMENT

---

## **Consulting Parties are:**

- Applicants for federal assistance/approvals
- SHPOs
- Federally recognized Indian tribes/Tribal Historic Preservation Officers (THPOs)
- Local governments
- Advisory Council on Historic Preservation
- Other individuals/organizations with interest due to the nature of their legal or economic relation to the project or affected properties, or their concern with the project's effects on historic properties

## **Potential roles of the consulting parties:**

- Discuss views
- Help identify historic properties
- Review pertinent historic preservation information provided by NPS
- Help develop and consider possible solutions to avoid, minimize, or mitigate adverse effects to historic properties
- Implement mitigation measures





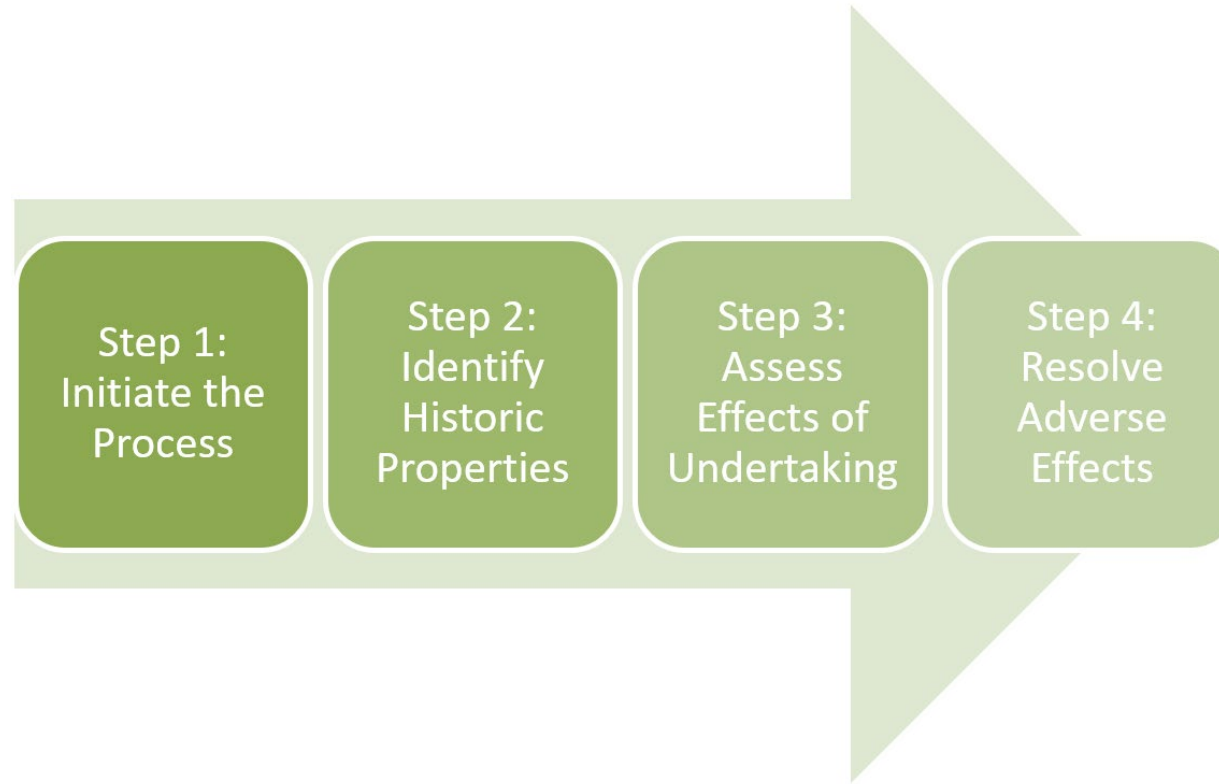


# CONSULTING PARTIES

---

- NPS National Capital Region
- NPS National Mall and Memorial Parks
- DC Historic Preservation Office (DC SHPO)
- Virginia Department of Historic Resources (VA SHPO)
- THPOs
- National Capital Planning Commission
- Commission of Fine Arts
- Advisory Council on Historic Preservation
- DC Preservation League
- Committee of 100
- Trust for the National Mall
- National Trust for Historic Preservation
- Historical Society of Washington
- Others



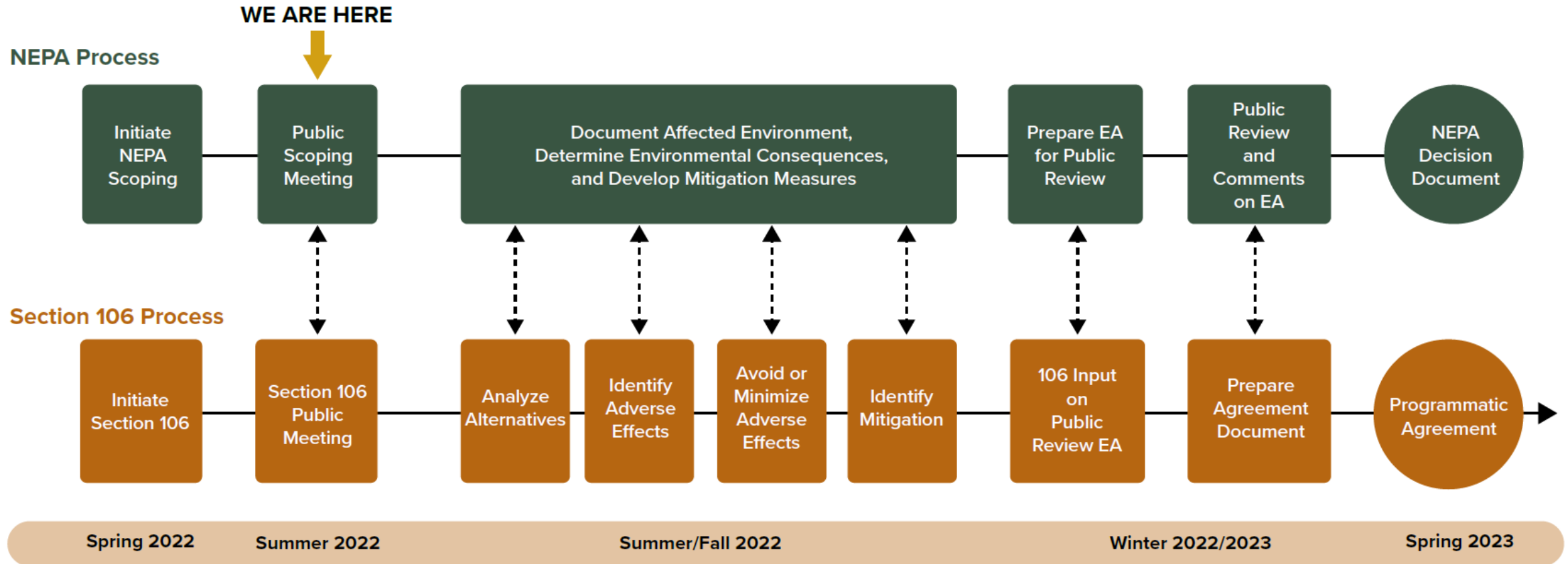


## Section 106 Consultation

NATIONAL HISTORIC PRESERVATION ACT



# NEPA+SECTION 106: A COORDINATED APPROACH







# 06

---

## IDENTIFICATION OF HISTORIC PROPERTIES

In the bottom right corner, there are two parallel diagonal stripes. The top stripe is a dark olive green, and the bottom stripe is a light cream color. They extend from the bottom right towards the center of the slide.

## Key



Area of Potential Effects



Washington Monument and Grounds Historic District



East and West Potomac Parks Historic District



National Mall Historic District



Arlington National Cemetery Historic District



George Washington Memorial Parkway



Mount Vernon Memorial Highway Historic District

## Individually Listed Resources

- A. Arlington Memorial Bridge
- B. Martin Luther King Jr., Memorial
- C. Franklin Delano Roosevelt Memorial
- D. Thomas Jefferson Memorial

Proposed extent of seawall project



# DRAFT AREA OF POTENTIAL EFFECTS





# East and West Potomac Parks Historic District



- Listed NRHP 1973; revised 2001
- Criteria A & C
- POS: 1882 – 1997
- Contributing resources:
  - Stone seawalls
  - Japanese cherry trees



# NATIONAL MALL AND WASHINGTON MONUMENT AND GROUNDS HDS

---



1919 (LOC)

## National Mall HD:

- NRHP HD Listed 1966; Expanded 2016
- POS: 1791 to present under Criterion A
- POS: 1791 to 1965 under Criteria C & D
- 60 Contributing Resources:
  - Tidal Basin and walls
  - Japanese cherry trees

## Washington Monument and Grounds HD:

- NRHP HD Listed 1981; Expanded 2016
- POS: 1848 – 1889
- 22 Contributing Resources:
  - Tidal Basin cherry trees





# GEORGE WASHINGTON MEMORIAL PARKWAY AND MOUNT VERNON MEMORIAL HIGHWAY HD



## **GWMP:**

- NRHP listed 1995; VLR listed 1991
- POS: 1930 – 1966
- Constructed 1932 (parts of MVMH) – 1965
- Part of the McMillan Commission, first proposed in 1902

## **MVMH HD:**

- NRHP listed 1981; VLR listed 1981
- POS: 1929 – 1932
- Constructed 1929 – 1932
- First parkway project undertaken by US Government



1994 HAER (LOC)



# ARLINGTON NATIONAL CEMETERY HD AND ARLINGTON MEMORIAL BRIDGE

---



1934 (LOC)

## **Arlington National Cemetery:**

- NRHP HD Listed 1966; Expanded 2014
- Criteria A, B, and C
- POS: 1864 – Present

## **Arlington Memorial Bridge:**

- NRHP Listed 1979
- POS: 1923 – 1932
- Constructed 1926 – 1932
- McKim, Mead, and White
- Renovated 2018 – 2020





# MLK/FDR/JEFFERSON MEMORIALS

## **Martin Luther King, Jr. Memorial:**

- Dedicated 2011
- Master Lei Yixin, Sculptor
- ROMA Design Group

## **Franklin Delano Roosevelt Memorial:**

- Dedicated 1997
- Lawrence Halprin, Robert Marquis, and various sculptors

## **Thomas Jefferson Memorial:**

- 1937 – 1943
- John Russell Pope, Architect
- Rudolph Evans, Sculptor

*All National Memorials are listed in NRHP upon their creation.*



*c. 1941 (LOC)*





07

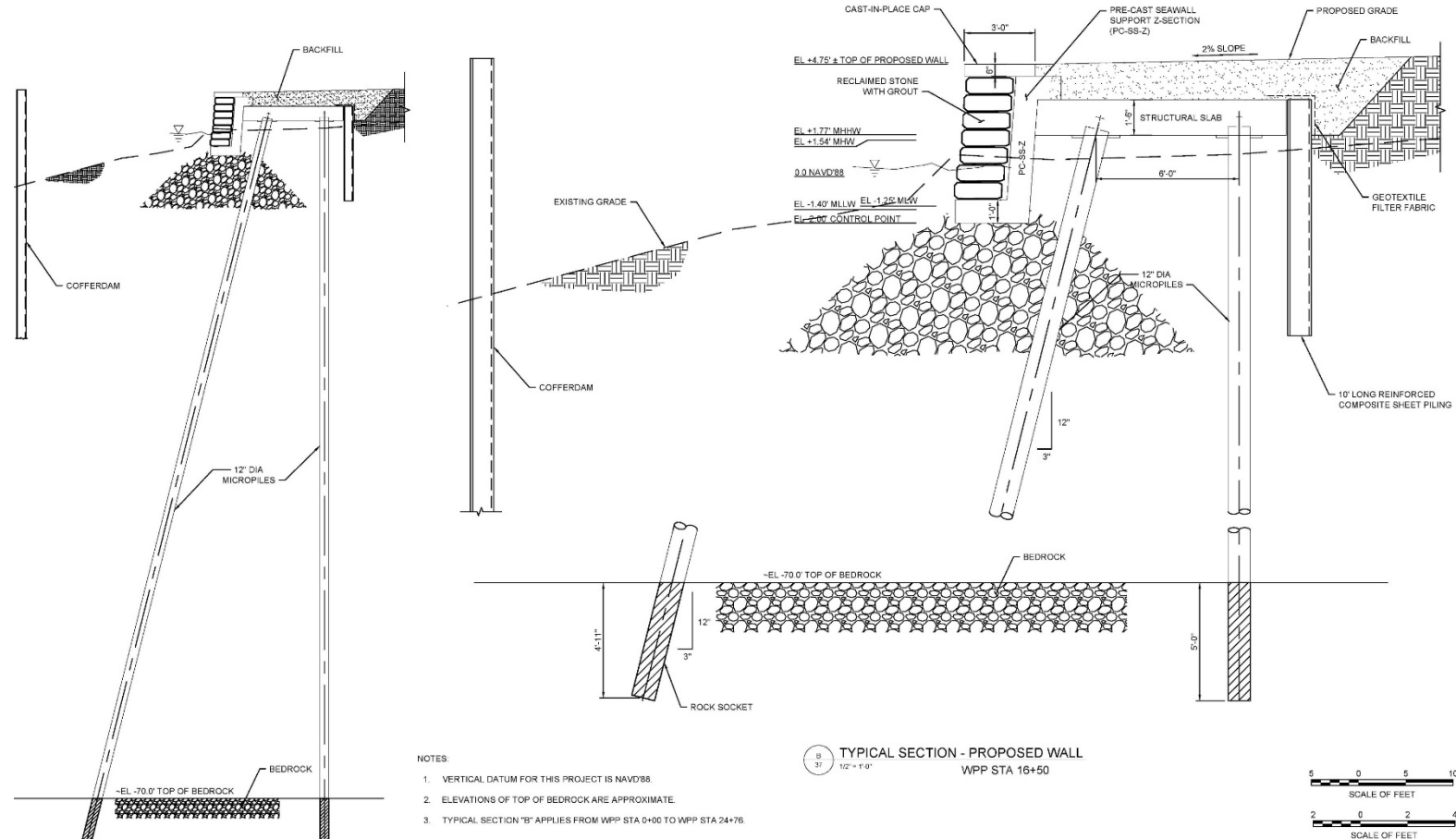
---

# PRELIMINARY CONCEPTS

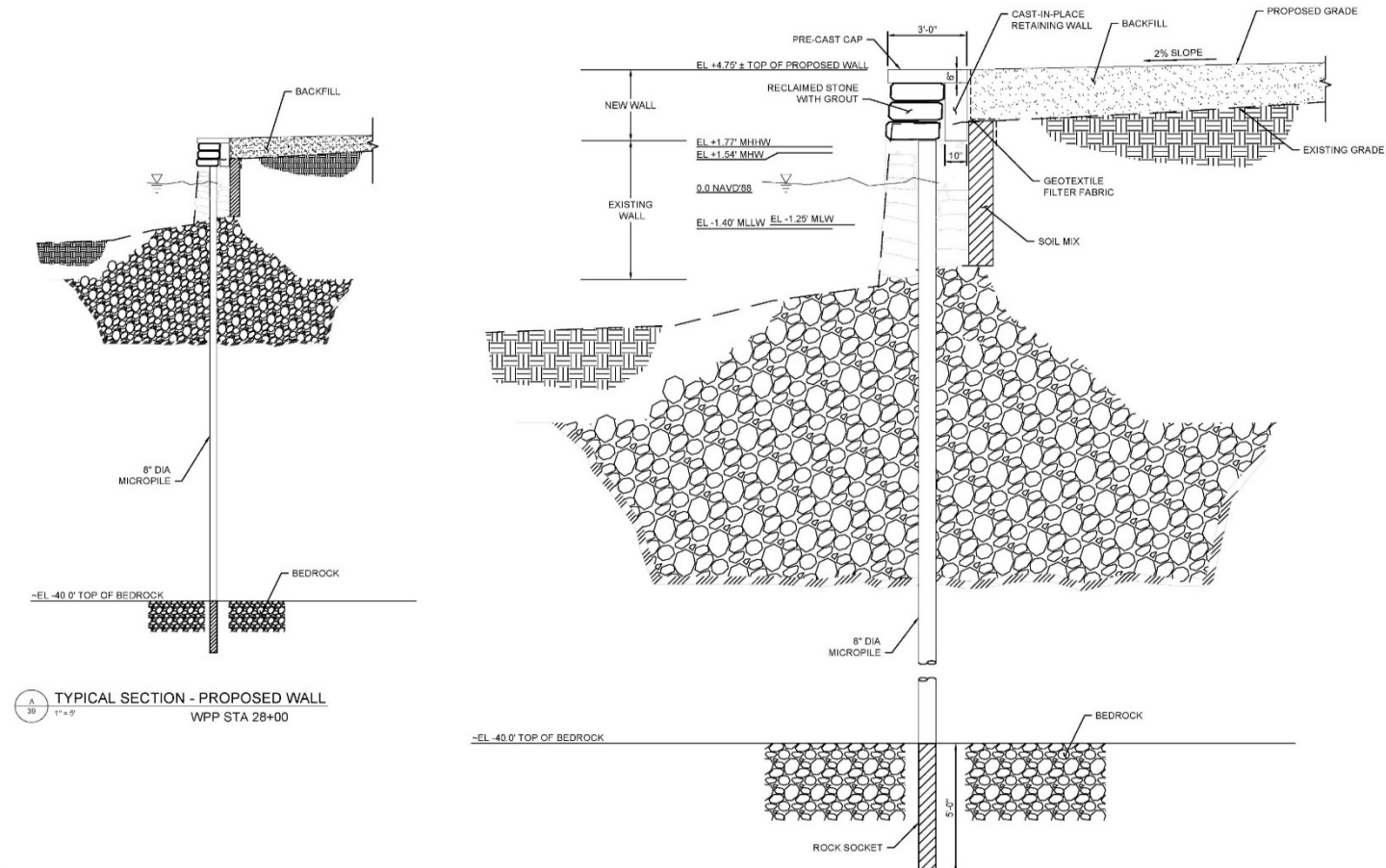




# INITIAL SECTION: TIDAL BASIN & WPP SOUTH



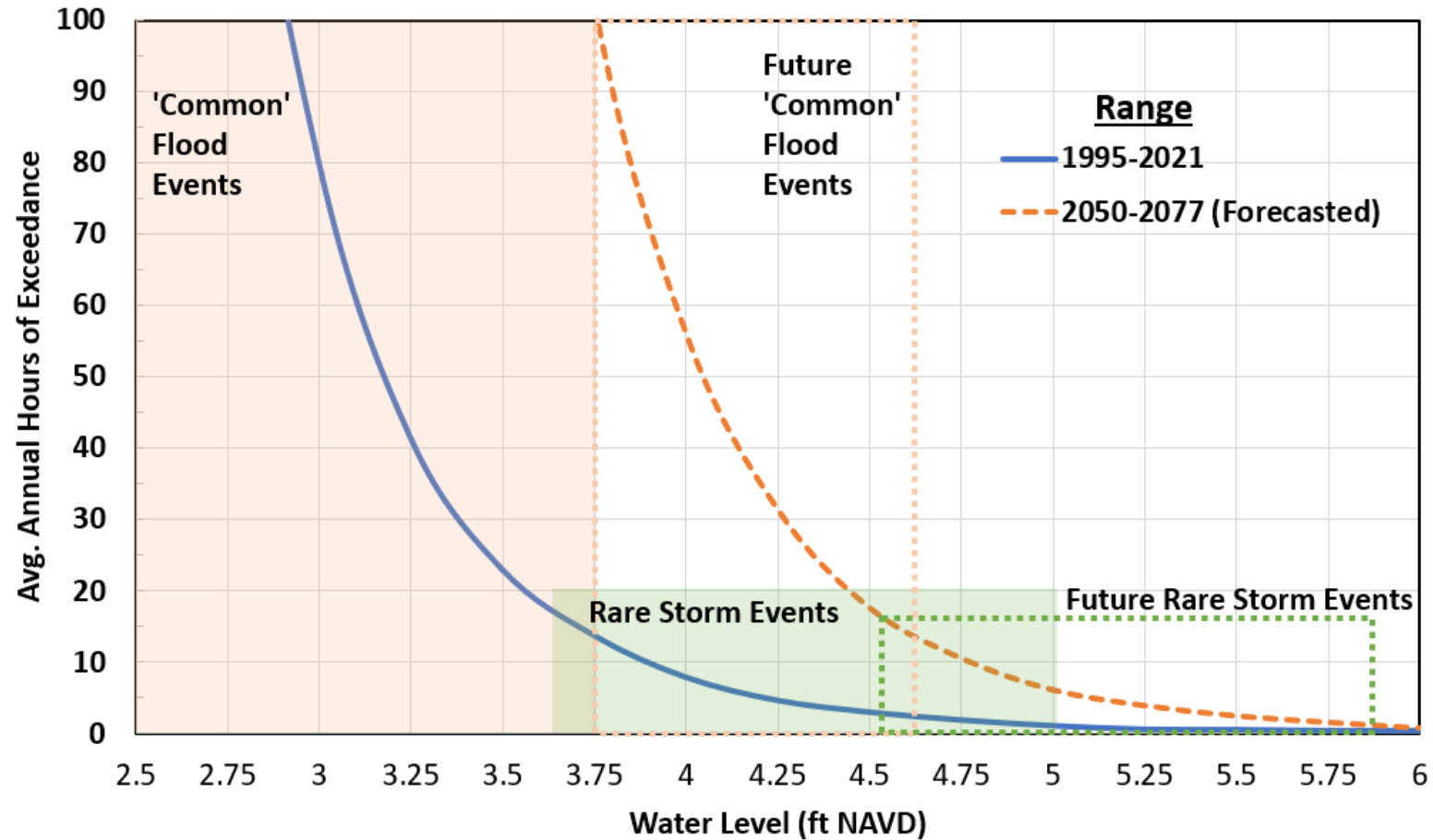
# INITIAL SECTION: WPP NORTH



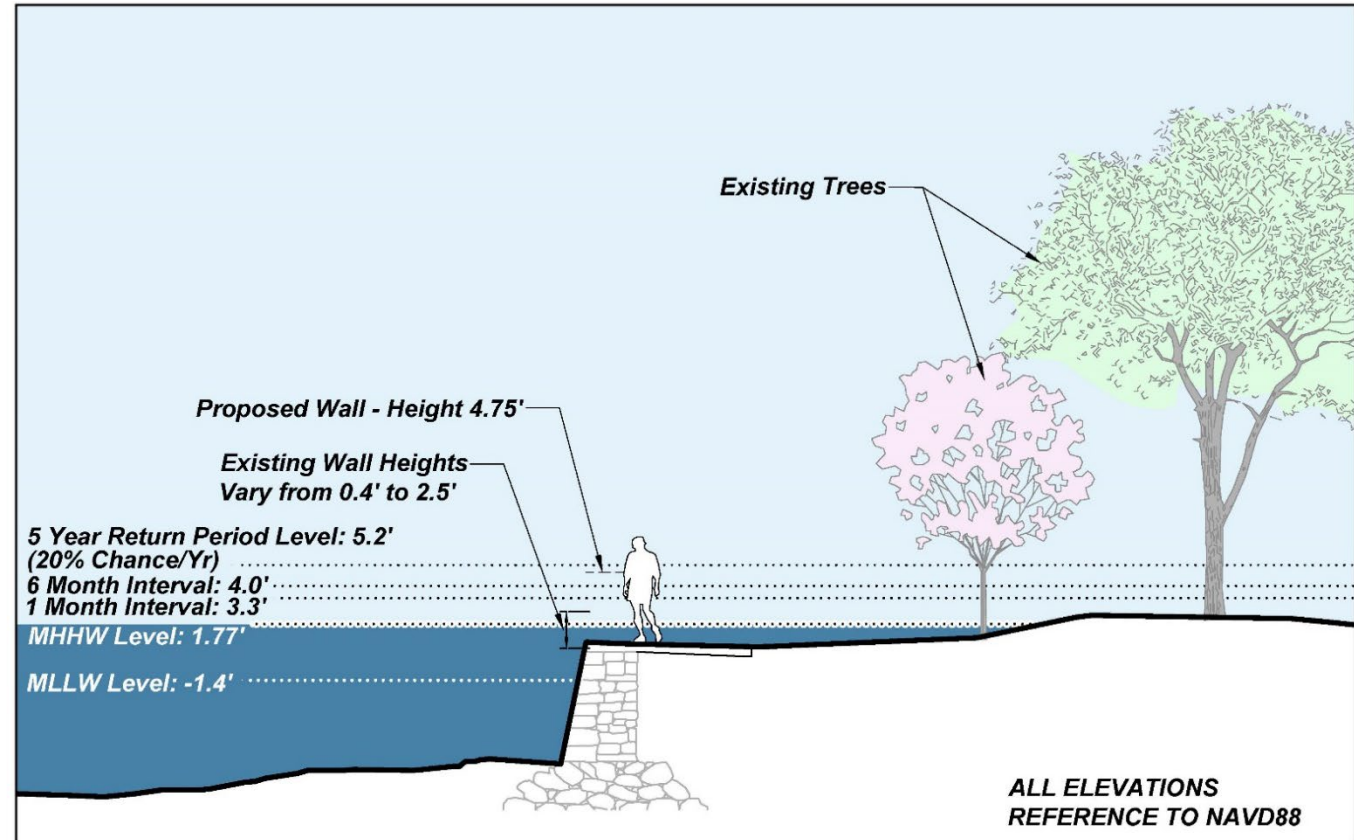




# ESTABLISHING WALL HEIGHT



# TIDAL BASIN EAST



SCALE: 1/8" = 1'-0"  
SECTION 1

## EXISTING CONDITIONS (TYPICAL)

### Tidal Basin - East

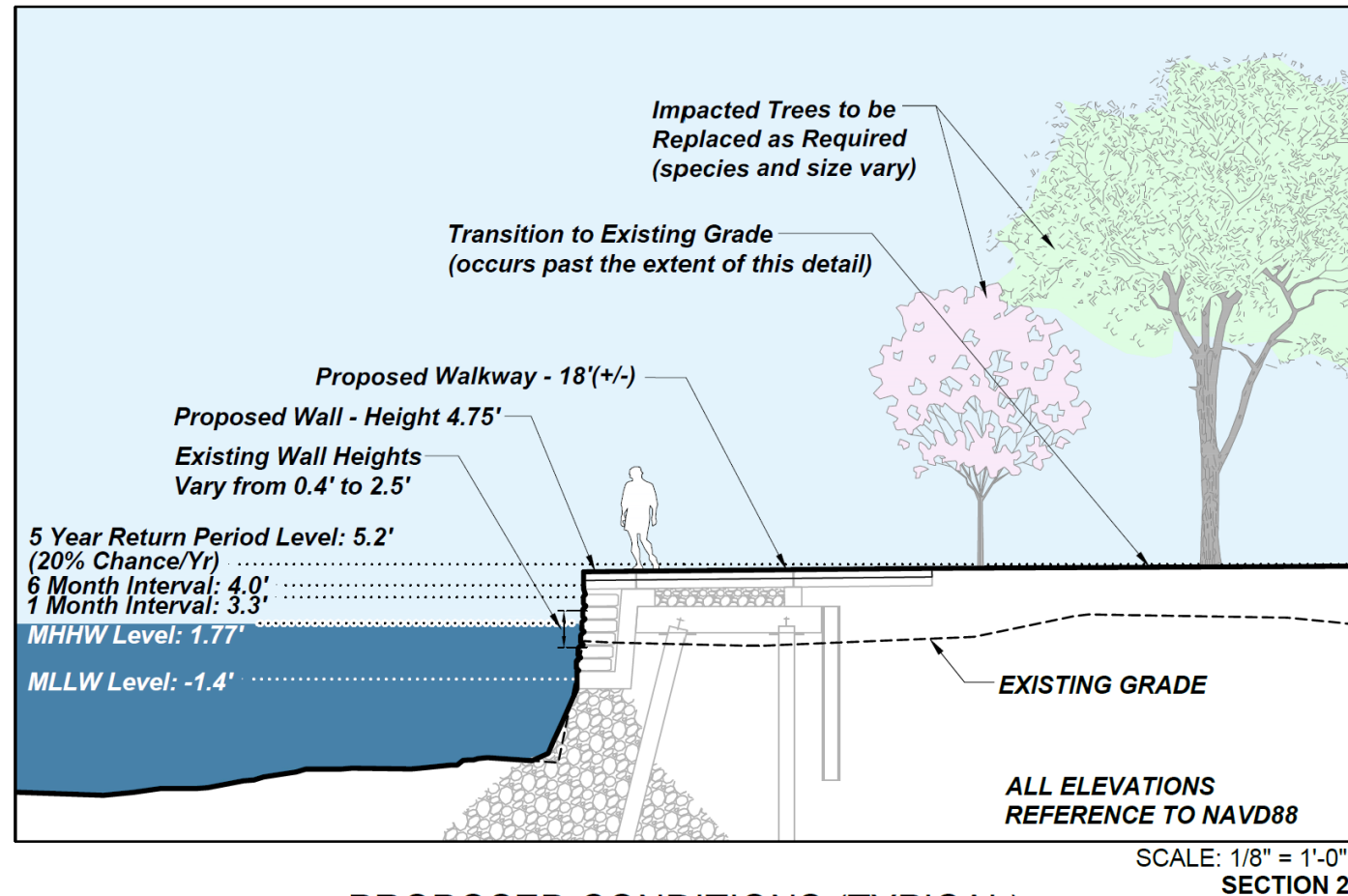
(Visualization for Planning Purposes Only)

\*Mean Higher High Waters (MHHW) | Mean Lower Low Waters (MLLW)





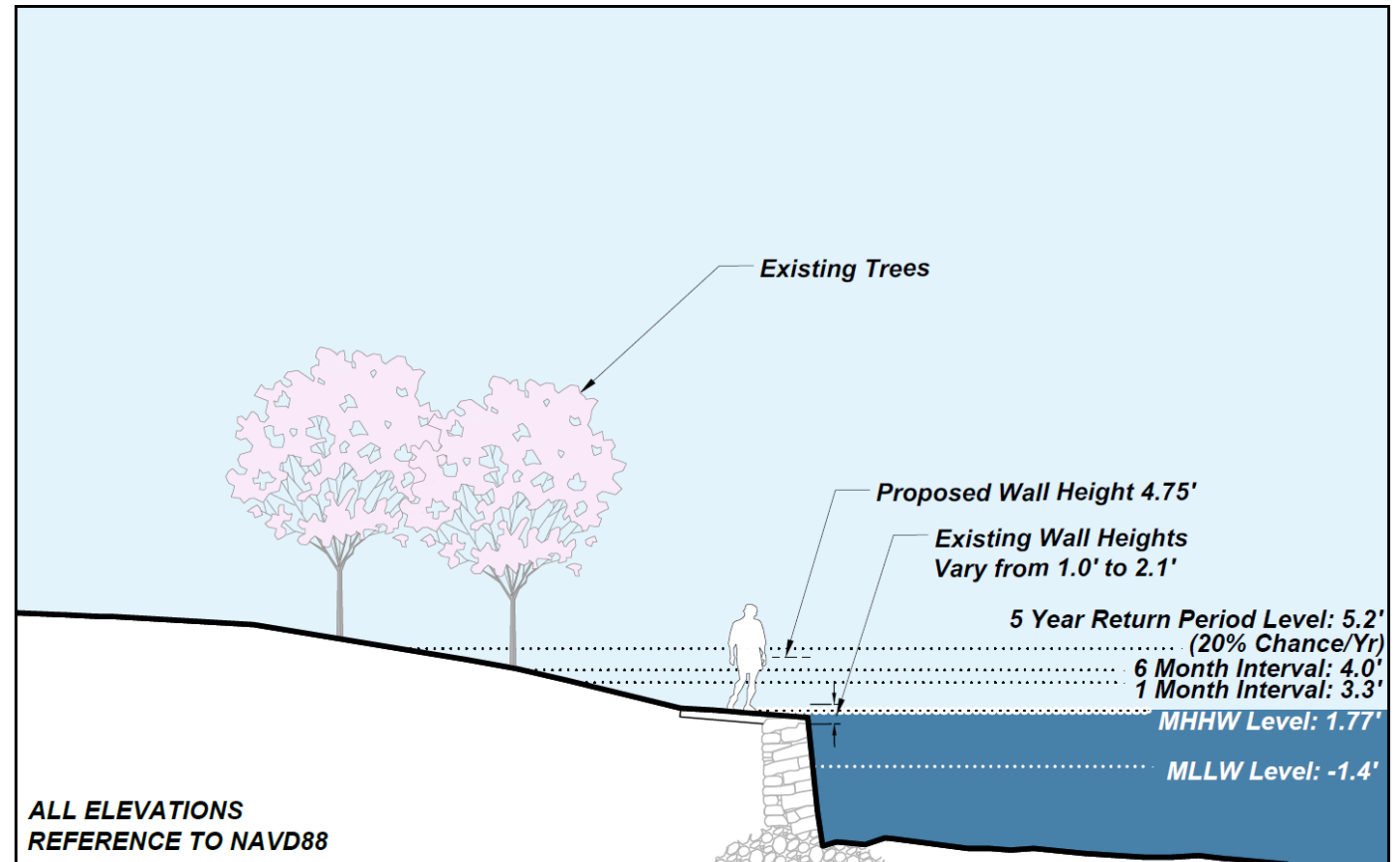
# TIDAL BASIN EAST



PROPOSED CONDITIONS (TYPICAL)  
Tidal Basin - East  
(Visualization for Planning Purposes Only)



# TIDAL BASIN WEST



SCALE: 1/8" = 1'-0"  
SECTION 3

EXISTING CONDITIONS (TYPICAL)

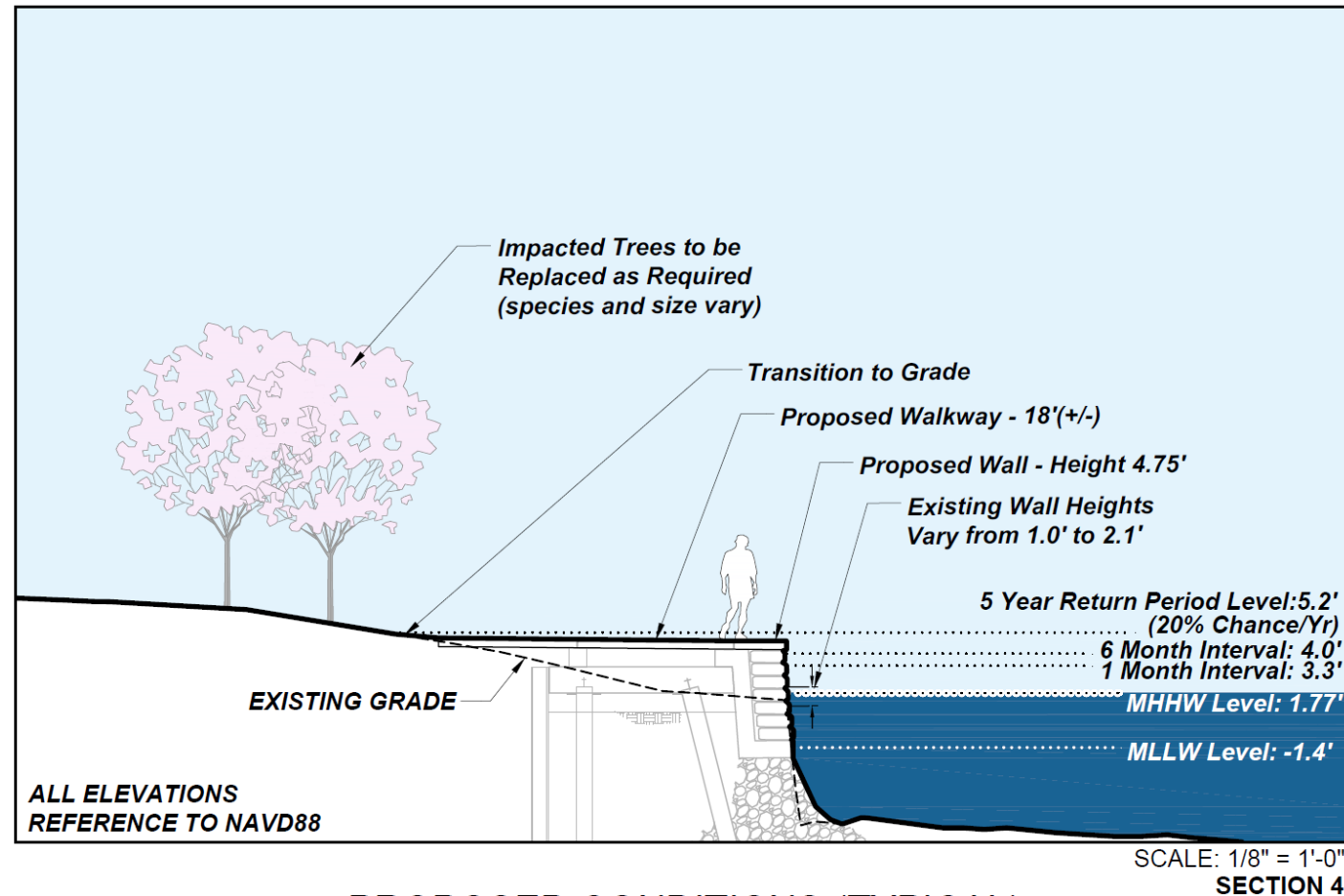
Tidal Basin - West

(Visualization for Planning Purposes Only)





# TIDAL BASIN WEST



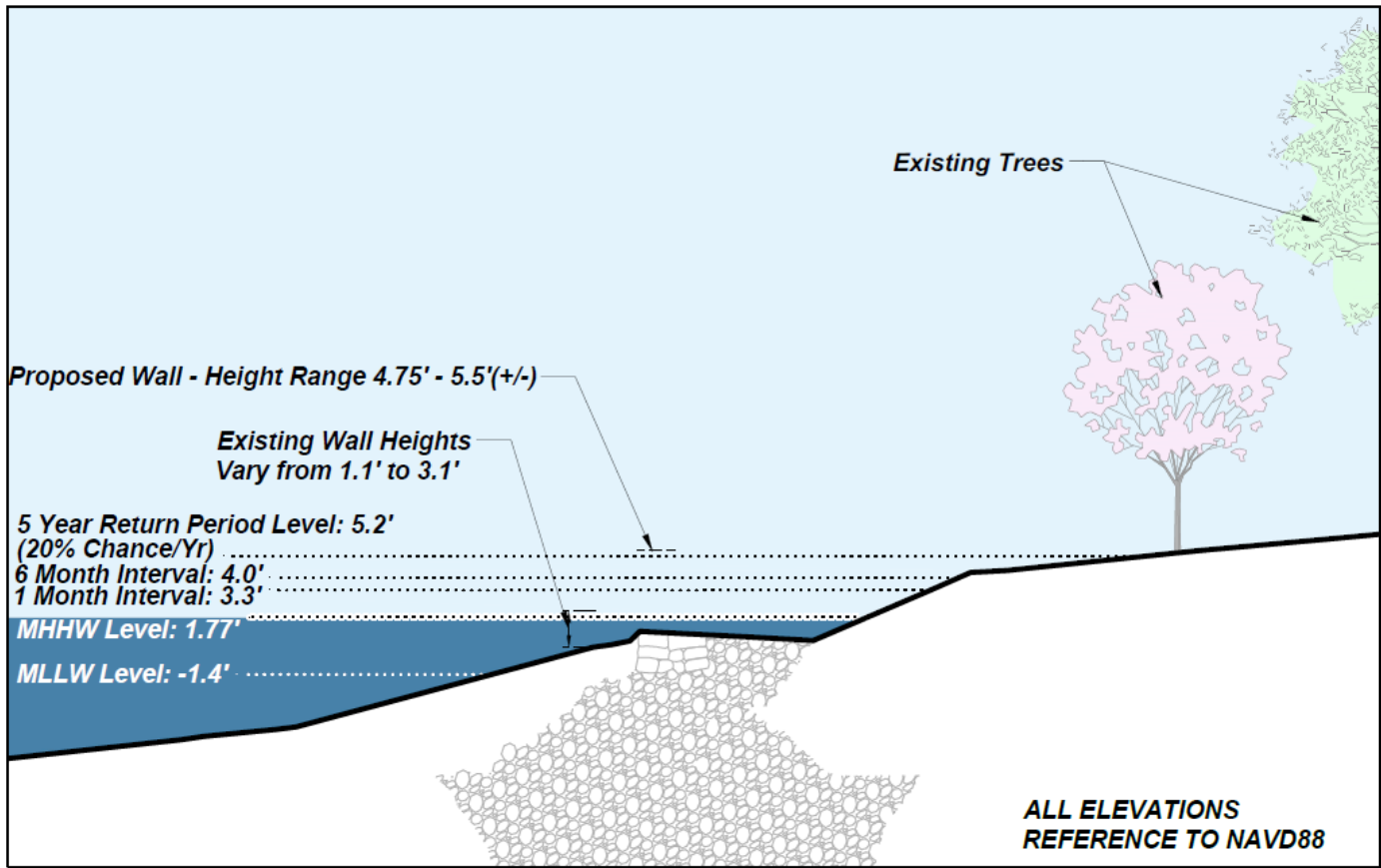
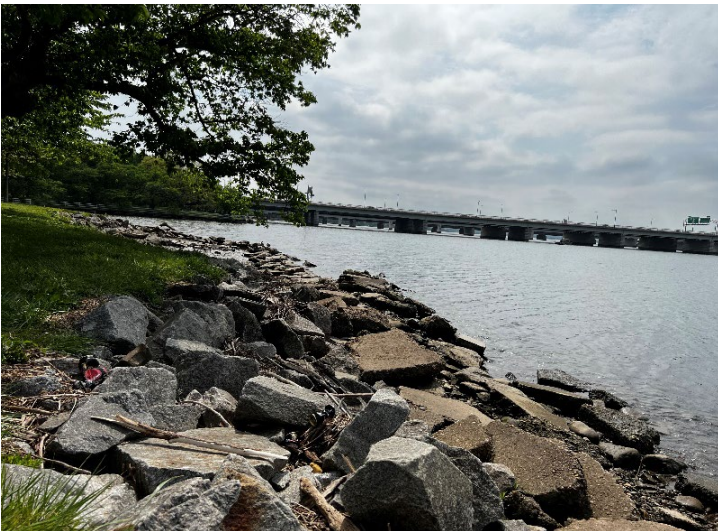
PROPOSED CONDITIONS (TYPICAL)

Tidal Basin - West

(Visualization for Planning Purposes Only)



# WEST POTOMAC PARK SOUTH

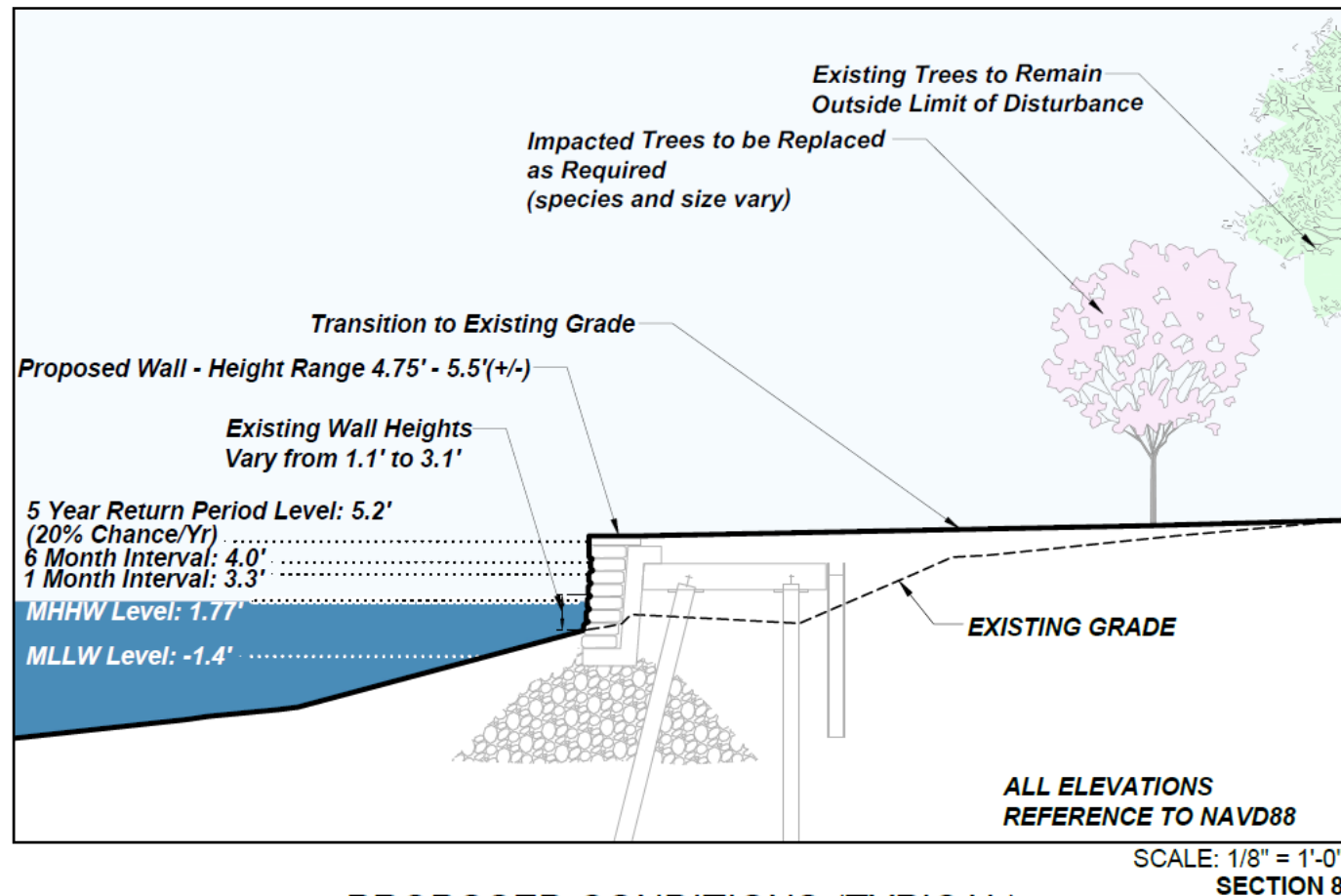


SCALE: 1/8" = 1'-0"  
SECTION 7

EXISTING CONDITIONS (TYPICAL)  
West Potomac Park - South  
(Visualization for Planning Purposes Only)



# WEST POTOMAC PARK SOUTH



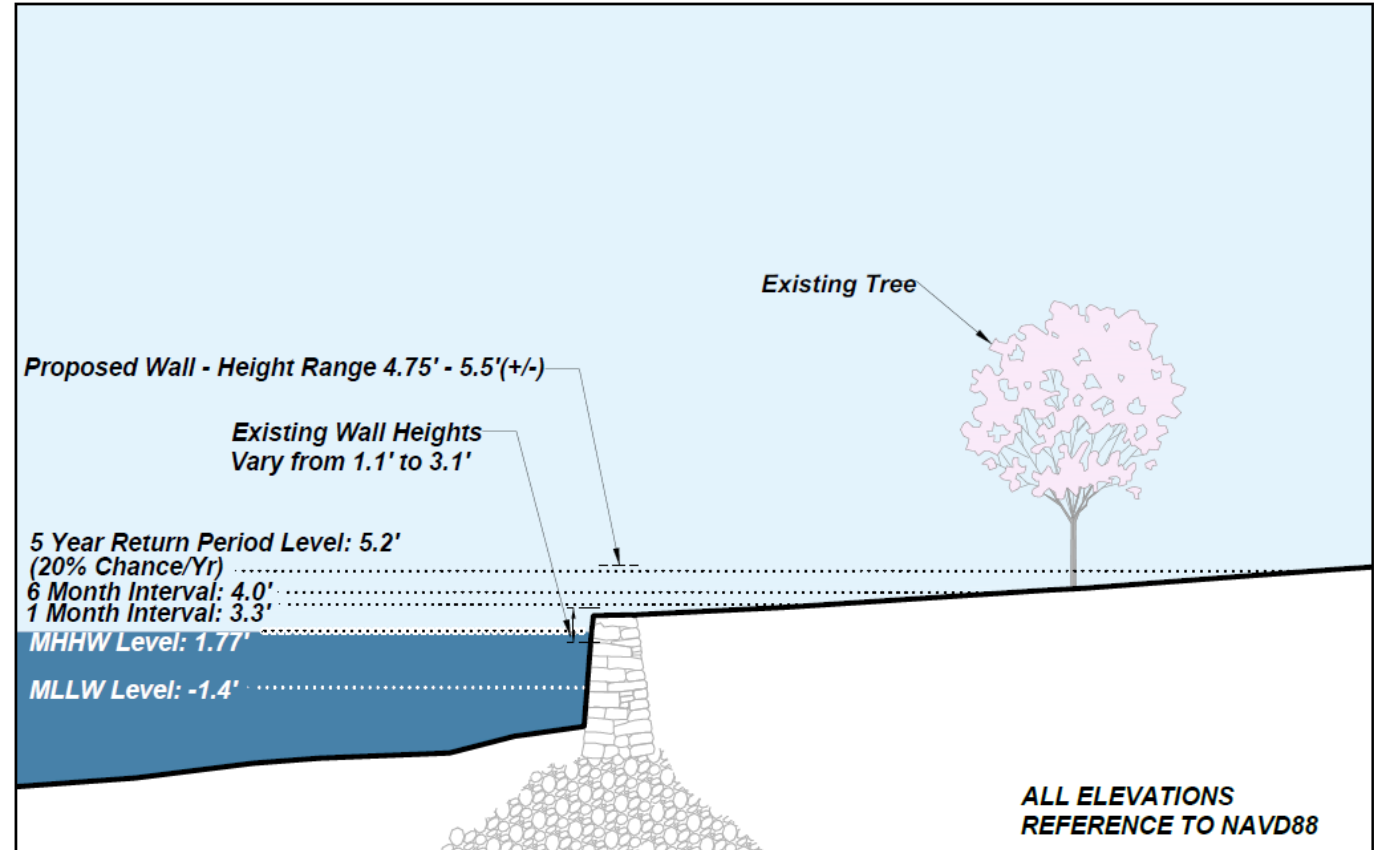
PROPOSED CONDITIONS (TYPICAL)  
West Potomac Park - South  
(Visualization for Planning Purposes Only)

\*Hydraulic analysis ongoing





# WEST POTOMAC PARK NORTH

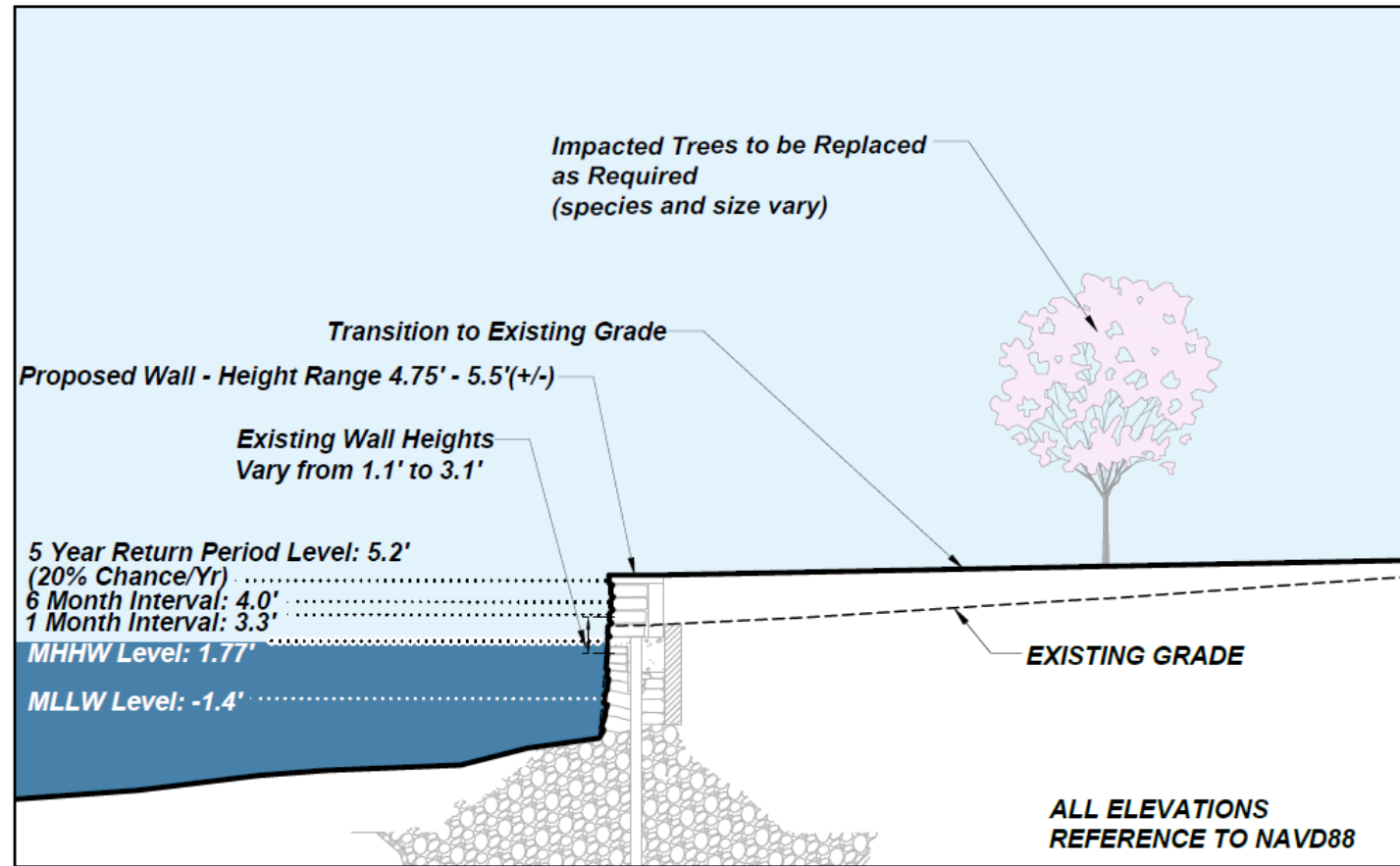


SCALE: 1/8" = 1'-0"  
SECTION 5

**EXISTING CONDITIONS (TYPICAL)**  
**West Potomac Park - North**  
(Visualization for Planning Purposes Only)



# WEST POTOMAC PARK NORTH



SCALE: 1/8" = 1'-0"

SECTION 6

PROPOSED CONDITIONS (TYPICAL)

West Potomac Park - North

(Visualization for Planning Purposes Only)





# 08

---

## DISCUSSION, QUESTIONS, AND COMMENTS

In the bottom right corner, there are two parallel diagonal stripes. The top stripe is a dark olive green, and the bottom stripe is a light cream color. They extend from the bottom right towards the center of the slide.





# CONSULTING PARTY COMMENTS

---

- Consulting party comments are requested by September 12, 2022
- Comments can be provided in multiple ways:
  - At this meeting
  - Submit at the National Parks Service Seawall Rehabilitation Project Website  
*<https://parkplanning.nps.gov/SeawallRehabilitation>*
  - Correspondence addressed to:

Jeffrey Reinbold  
Superintendent  
NPS – National Mall and Memorial Parks  
900 Ohio Drive, SW  
Washington, DC 20024





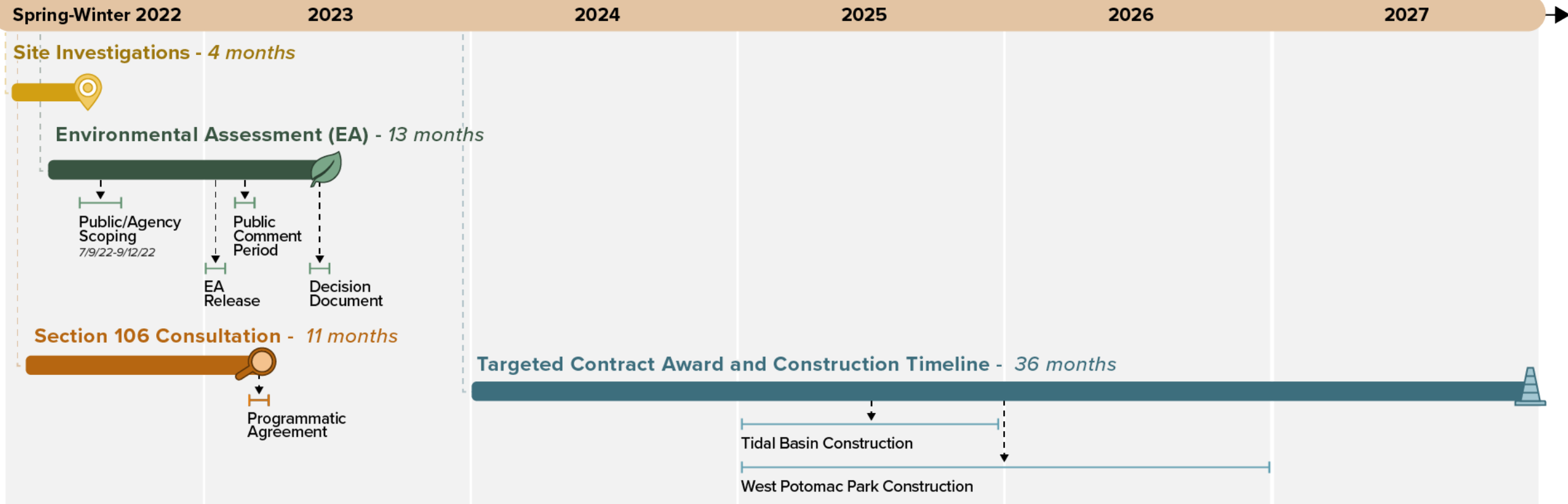
# 09

---

## NEXT STEPS



# NEXT STEPS







THANK YOU!