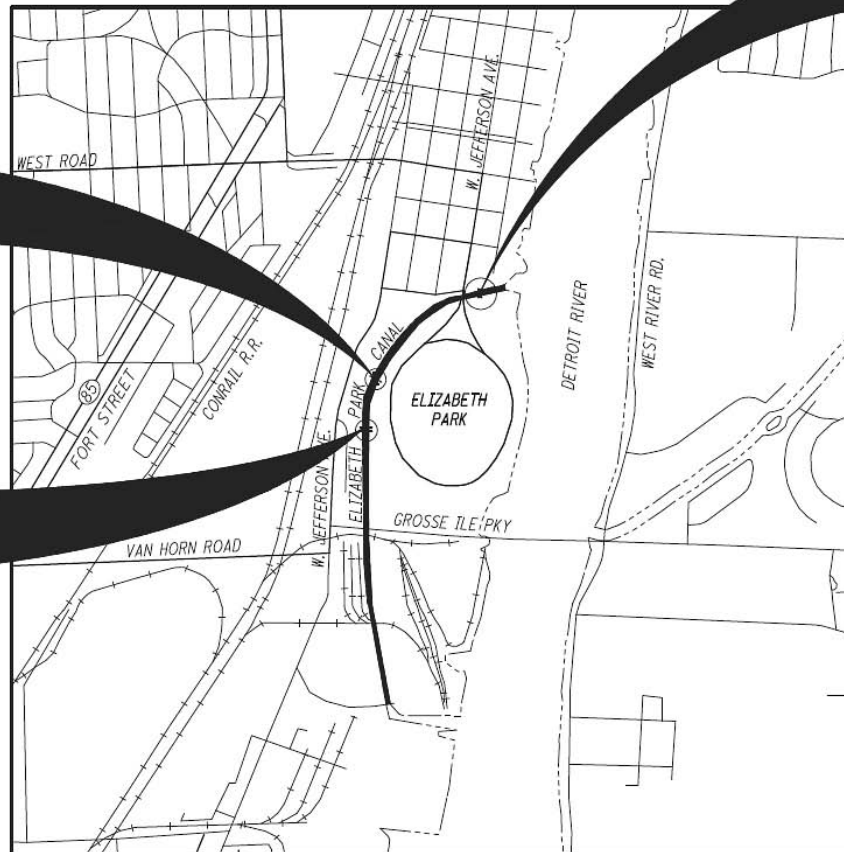


**BRIDGE 3  
PROJECT  
LOCATION**

**BRIDGE 2  
PROJECT  
LOCATION**

**BRIDGE 1  
PROJECT  
LOCATION**

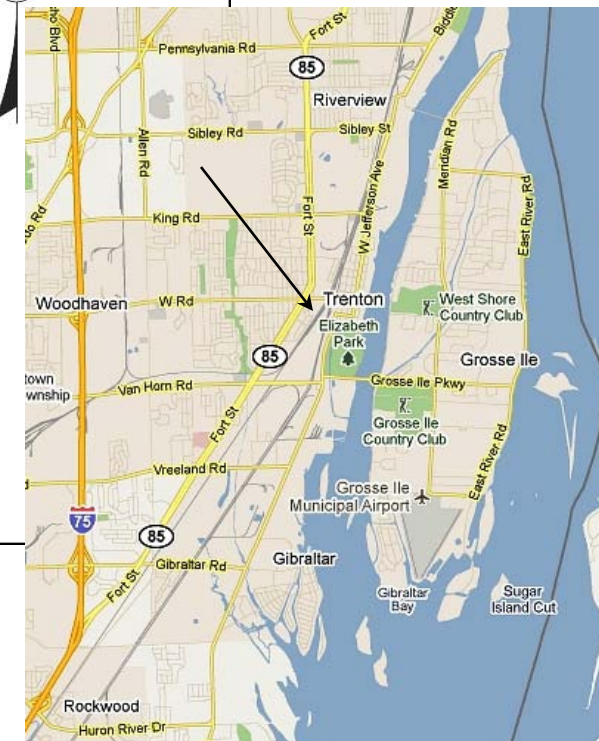


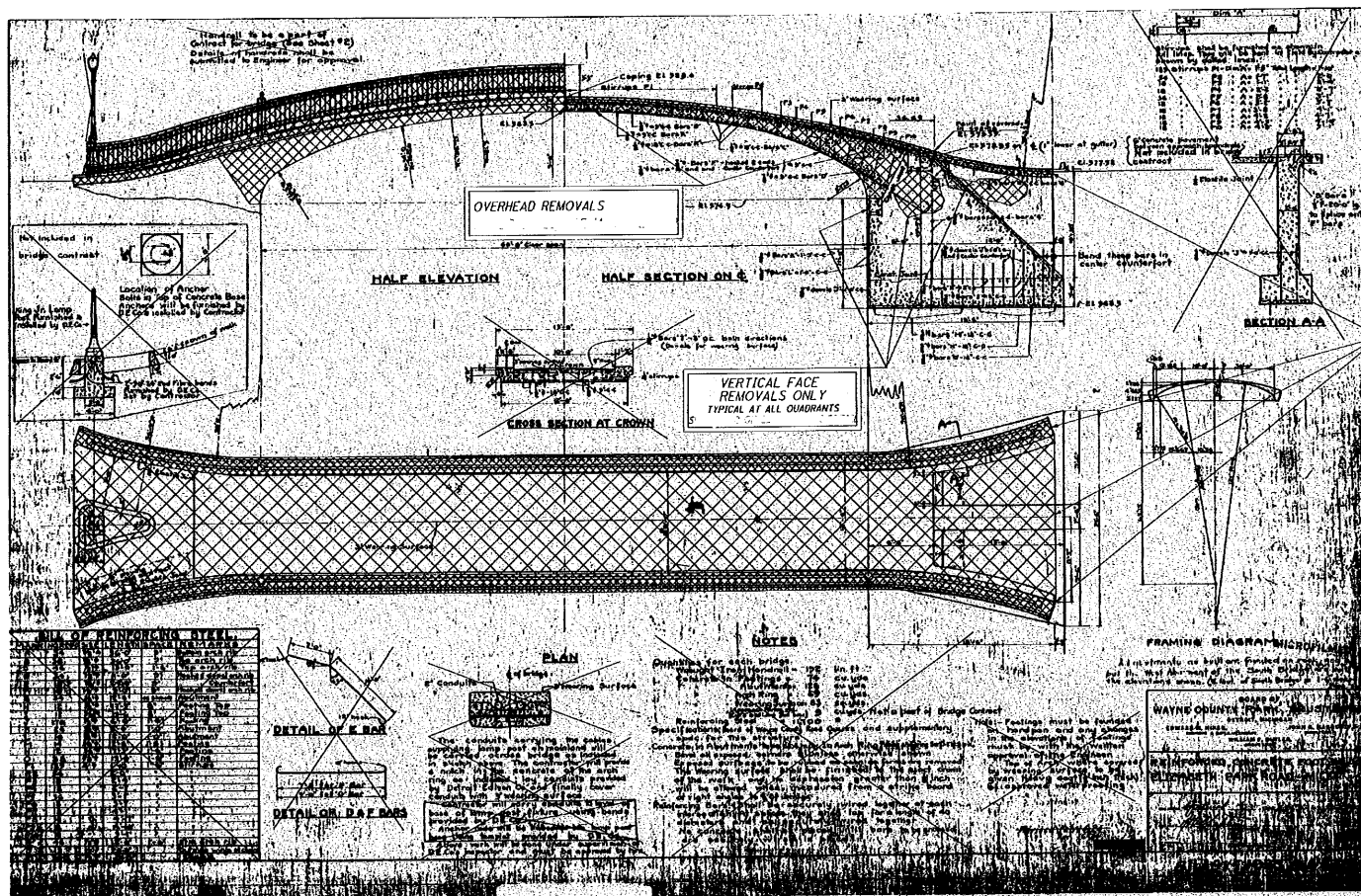
**LOCATION MAP**

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 Elizabeth Park Foot Bridge Rehab & Replacement  
 BY: Charter County of Wayne (Division of Parks)  
 Detroit River, City of Trenton, WAYNE County, MI

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Typical for all Bridges

# REMOVAL SHEET

THE ONLY ITEMS OF WORK TO BE DONE FROM THIS SHEET ARE IDENTIFIED BY THE LEGEND BOX BELOW, LABELED WITH THIS PROJECT'S NUMBER.

### PROPOSED WORK

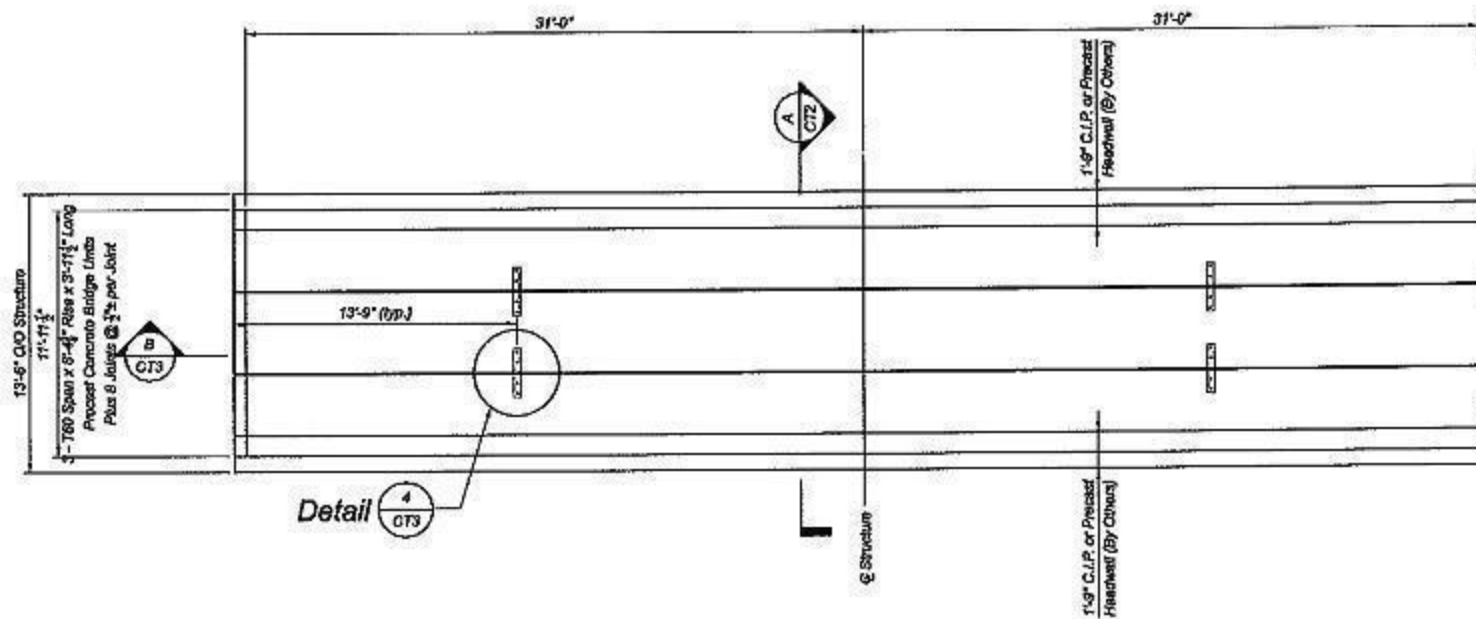
DENOTES REMOVAL PORTIONS

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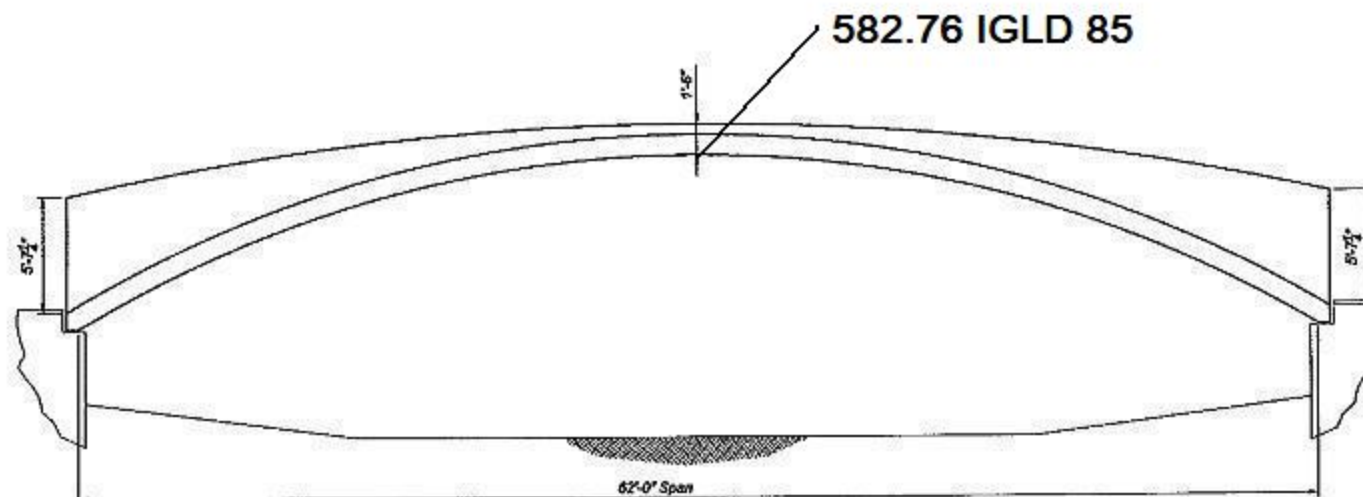
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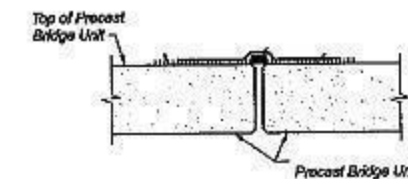




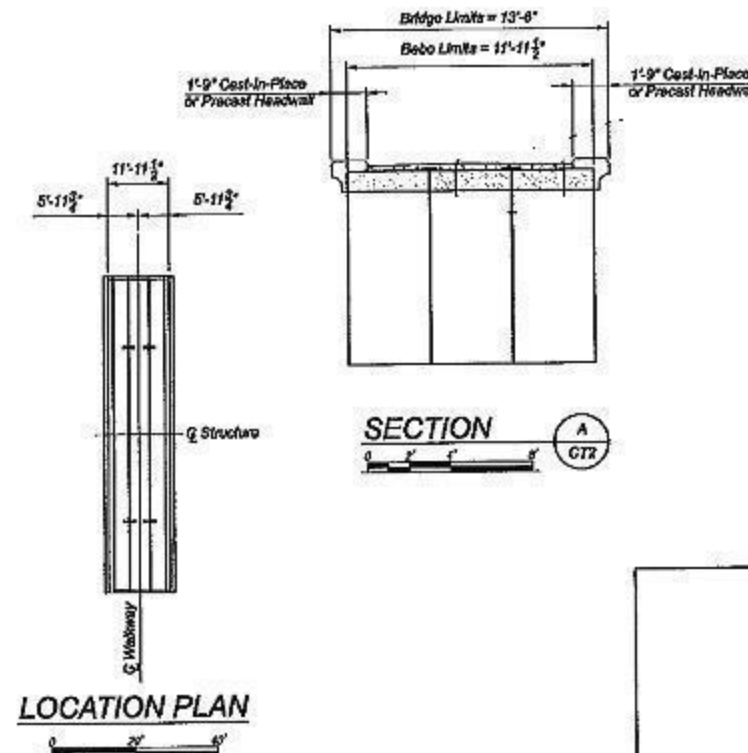
BRIDGE PLAN



TYPICAL END ELEVATION



TYPICAL JOINT SEAL DETAIL  
not to scale



SECTION

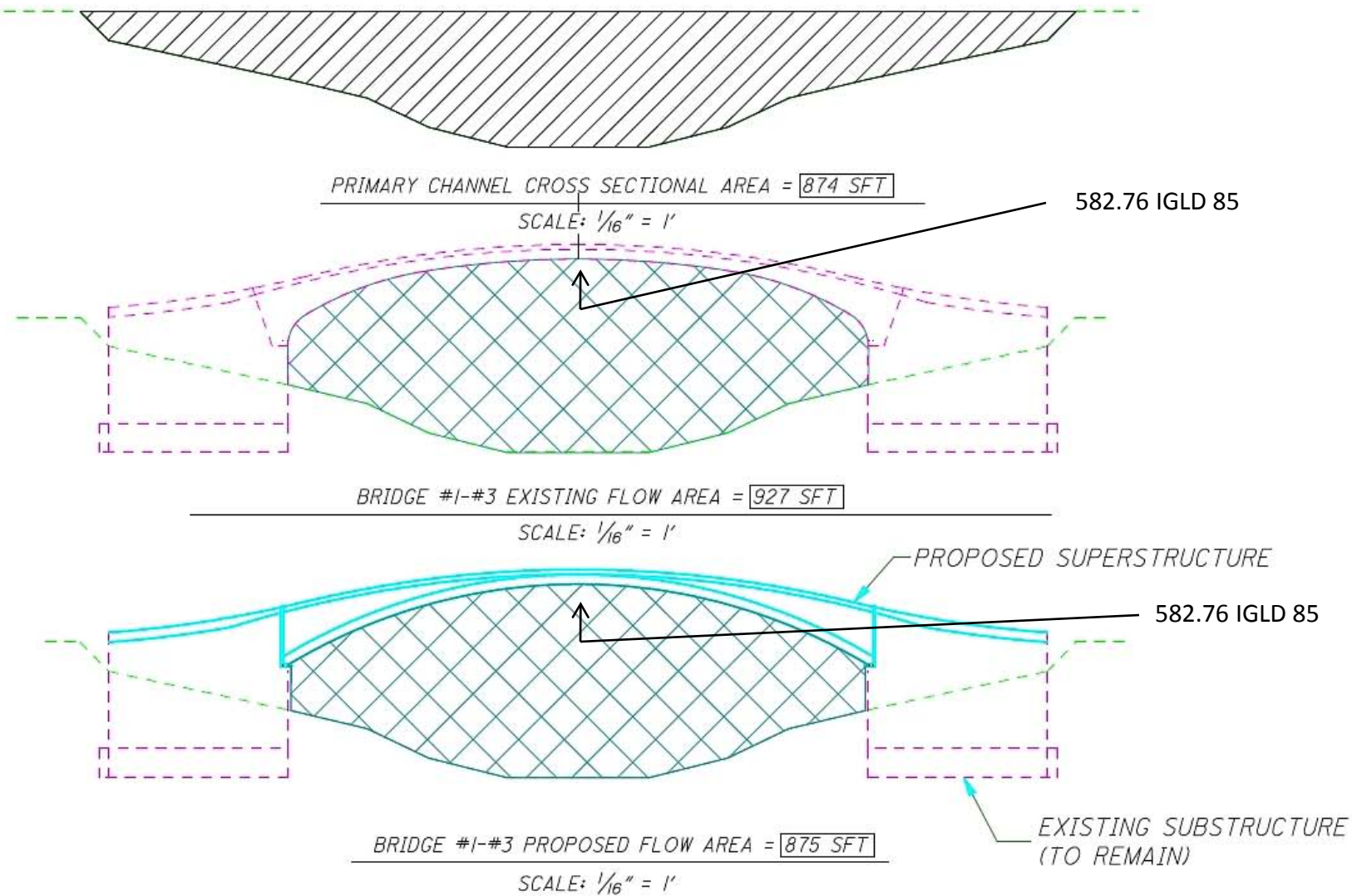
LOCATION PLAN

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<b>BEBO</b> Arch Systems		Project Status: <b>CONCEPTUAL</b> NOT FOR CONSTRUCTION	
<b>ELIZABETH PARK</b> DETROIT, MI		Drawn: DLW Checked: DLW	Date: 3/26/2010 Job No: 413811
		Sheet No: <b>CT2 of CT5</b>	



Bridge arch elevation (bottom) =  
12.76' above LWD (570.0 IGLD 85)

**The Mannik & Smith**  
Group, Inc.  
Civil Engineering, Surveying and Environmental Consulting

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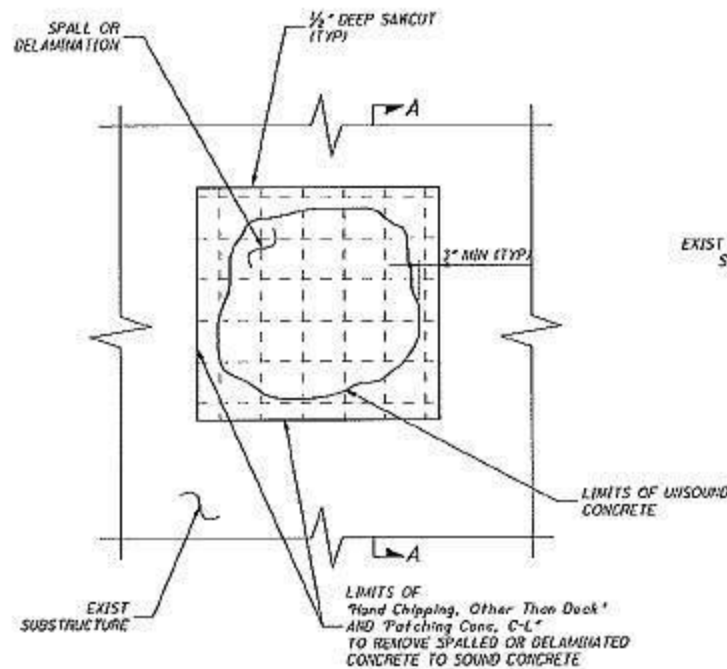
03/2011

PEDESTRIAN CROSSINGS OVER TRENTON CHANNEL

APPLICANT: WAYNE COUNTY PARKS &  
RECREATION COMMISSION  
WATERWAY: TRENTON CHANNEL  
COUNTY: WAYNE  
NUMBER OF SHEETS: 3 OF 4  
DATE: 02/10/2011

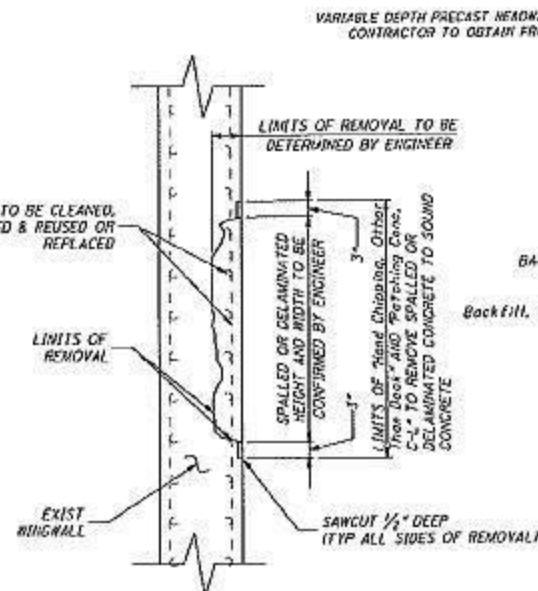
WAYNOA9A





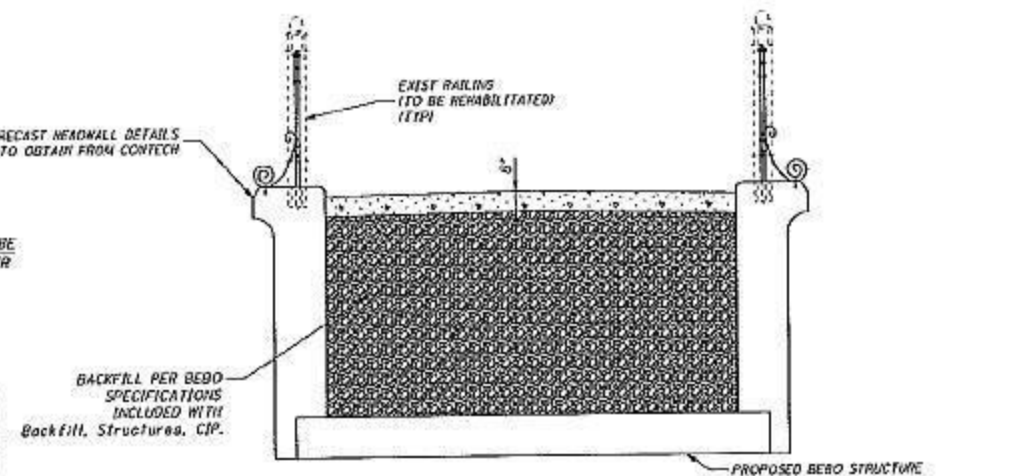
**ABUTMENT AND WINGWALL ELEVATION**

THIS DETAIL TYPICAL ALL QUADRANTS  
REPLACE REINFORCING STEEL WITH OVER 50% SECTION LOSS.

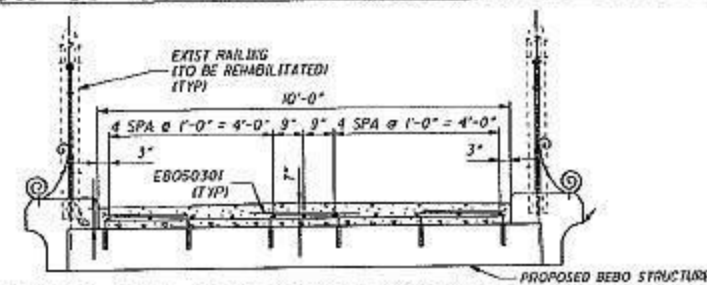


**SECTION A-A**

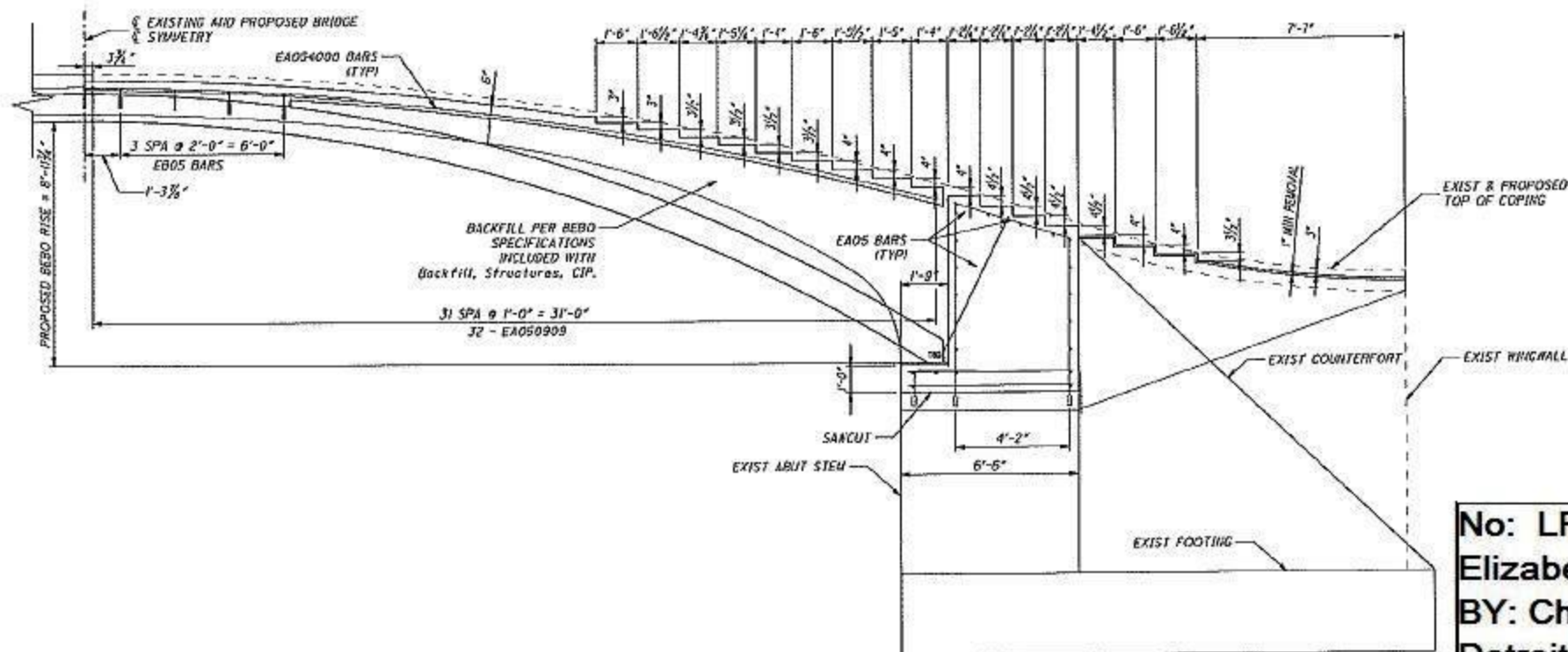
THIS DETAIL TYPICAL ALL QUADRANTS  
REPLACE REINFORCING STEEL WITH OVER 50% SECTION LOSS.



**SECTION OF SUPERSTRUCTURE NEAR ABUTMENT**



**SECTION OF SUPERSTRUCTURE AT CROWN**



**BRIDGE TYPICAL HALF PROFILE**

OTHER ABUTMENT OPPOSITE HAND  
SIDEWALK ONLY ON WEST END

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PROJECT	WAYNE COUNTY PARKS	
	ELIZABETH PARK BRIDGES	
BRIDGE 1	BEO REPLACEMENT	
	MODIFICATION DETAILS	
12	29	WAYNOA9A

**Mannik & Smith**  
Civil Engineering, Surveying and Development Consulting  
Client: Wayne County Parks

NO.	DATE	BY	REVISION
1	03/11/2011	MM	ISSUED FOR PERMIT REVIEW
2	03/22/2011	MM	ISSUED FOR CONSTRUCTION REVIEW

20' X 17' X 1'  
RESTORE SIDEWALKS,  
SLOPES, AND GRADING  
(TYP SIDE, EACH BRIDGE)

EX. PATH

CONST.  
ACCESS

STAGING AREA  
30' X 80' BRIDGE #1  
30' X 50' BRIDGE #2 & #3

3

20' X 20' X 1'  
HEAVY, RIPRAP  
(TYP ALL QUADRANTS  
EACH BRIDGE)

EX. PATH/  
CONST.  
ACCESS

STAGING AREA  
30' X 50' (TYP)

3

## TYPICAL PLAN VIEW

SCALE: 1" = 30'  
BRIDGE #1 SHOWN, BRIDGE 2 AND 3 TYPICAL

1 TOTAL VOLUME OF RIPRAP:  $3 * (4 * 20' * 20' * 1' / 27) = 178 \text{ CYD}$

2 TOTAL VOLUME OF SIDEWALK RESTORATION:  $3 * (2 * 17' * 20' * 1' / 27) = 76 \text{ CYD}$

3 TOTAL VOLUME OF STAGING RESTORATION:  $[[5 * (30 * 50' * 1')] + [(30 * 80' * 1')]] / 27 = 367 \text{ CYD}$

SHEET TOTAL:  $178 \text{ CYD} + 76 \text{ CYD} + 367 \text{ CYD} = 621 \text{ CYD}$

PEDESTRIAN CROSSINGS OVER TRENTON CHANNEL

**The Mannik & Smith**  
Group, Inc.

Civil Engineering, Surveying and Environmental Consulting

No: LRE-2007-00905-7-S11

09-82-48

Elizabeth Park Foot Bridge Rehab & Replacement

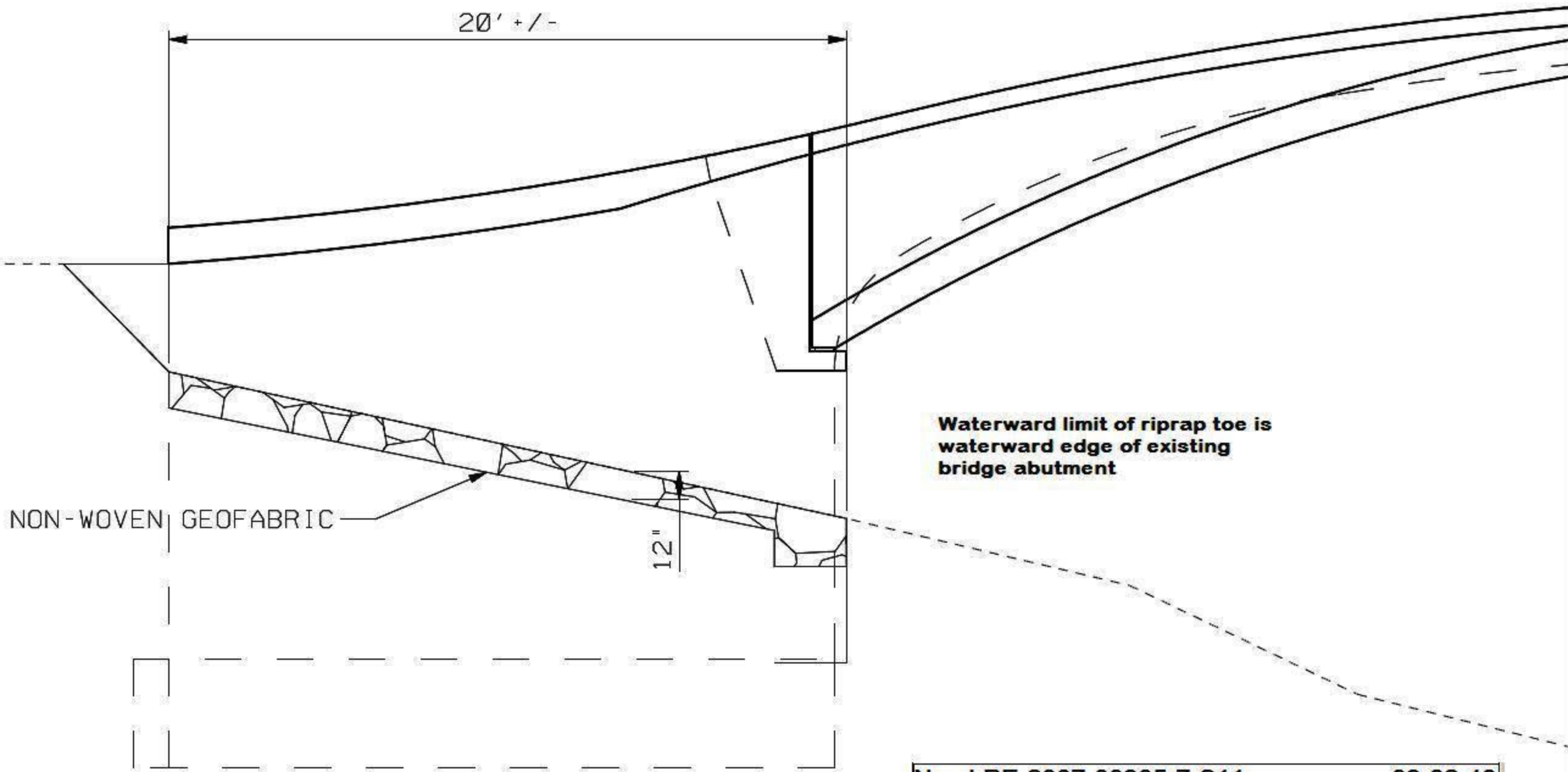
BY: Charter County of Wayne (Division of Parks)

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**Waterward limit of riprap toe is  
waterward edge of existing  
bridge abutment**

NON-WOVEN GEOFABRIC

12"

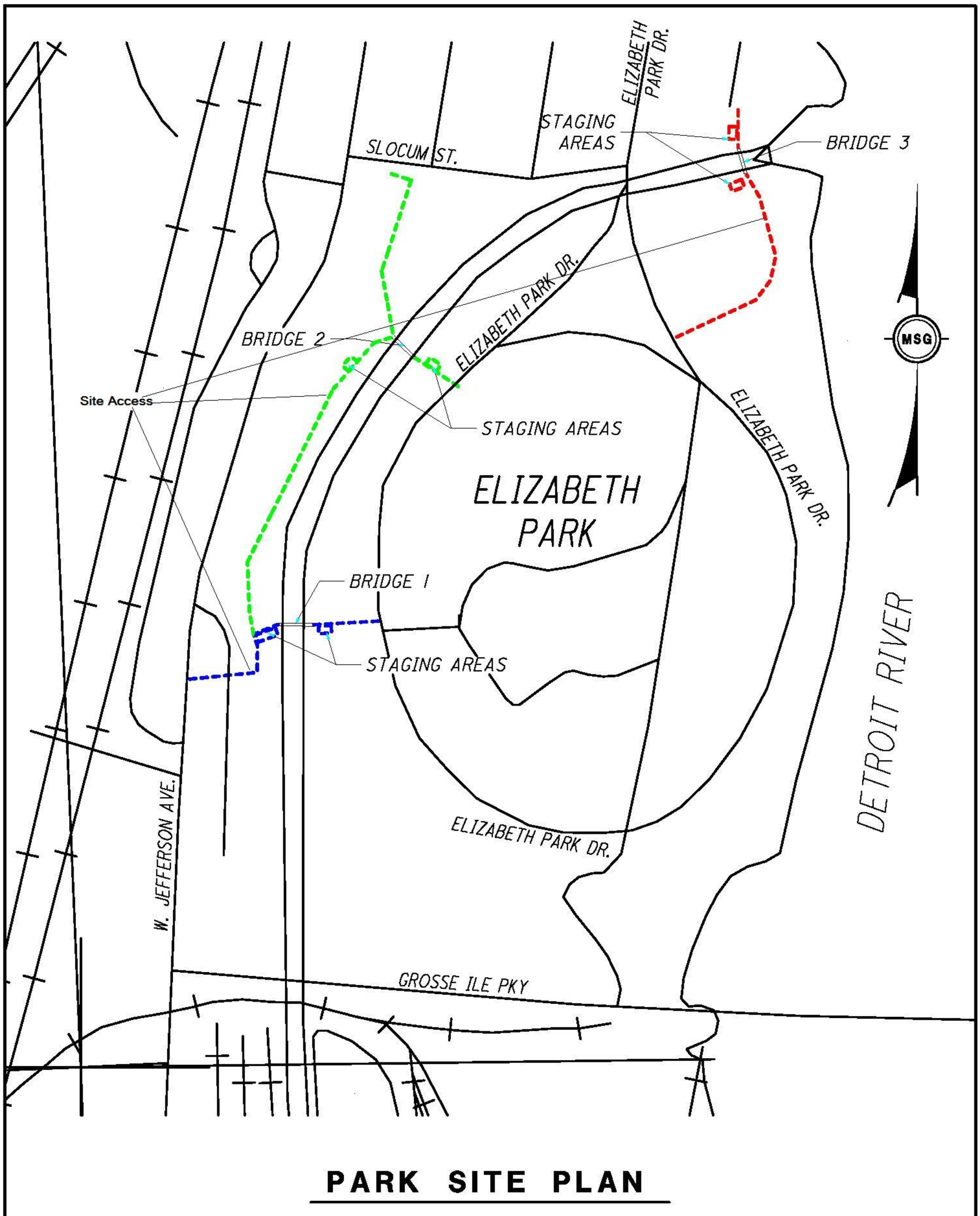
TYPICAL RIPRAP SECTION

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## PARK SITE PLAN

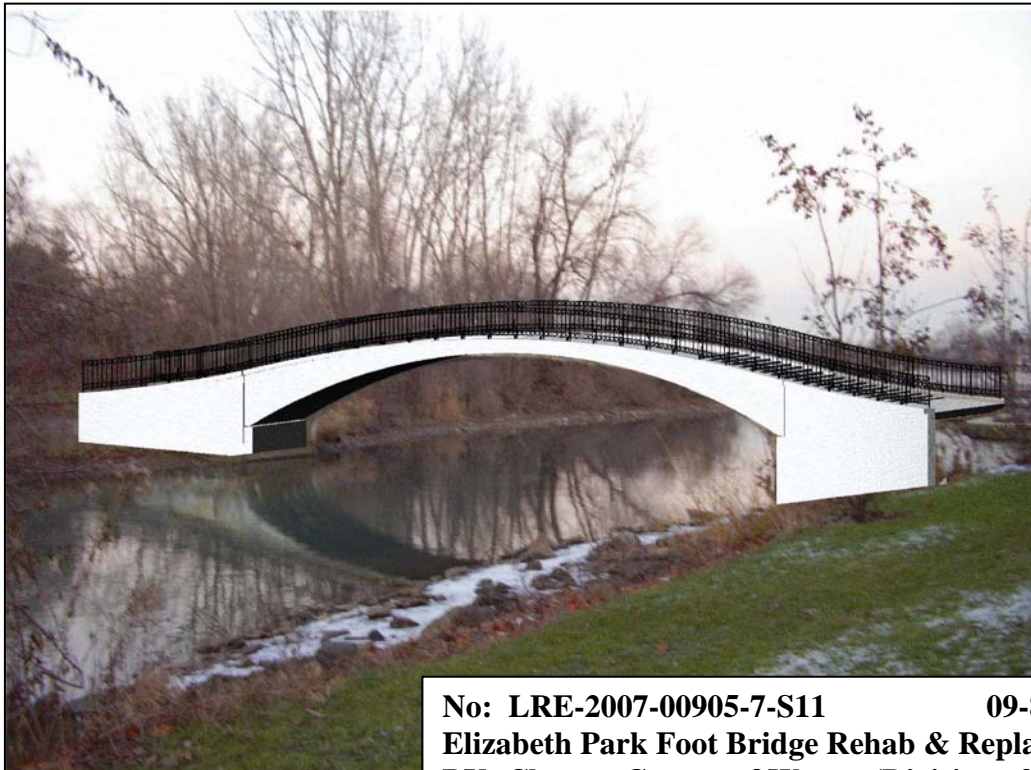
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## EXISTING CONDITION



## PROPOSED CONDITION



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