

CITY OF MADISON

ENGINEERING DIVISION DEPARTMENT OF PUBLIC WORKS

MONONA CAUSEWAY BIKE AND PEDESTRIAN PATH IMPROVEMENTS

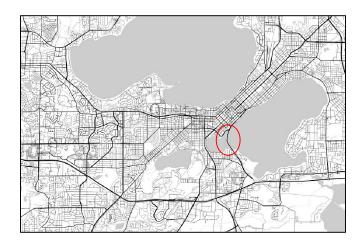
CITY PROJECT NO. XXXXXXX CONTRACT NO. XXXX

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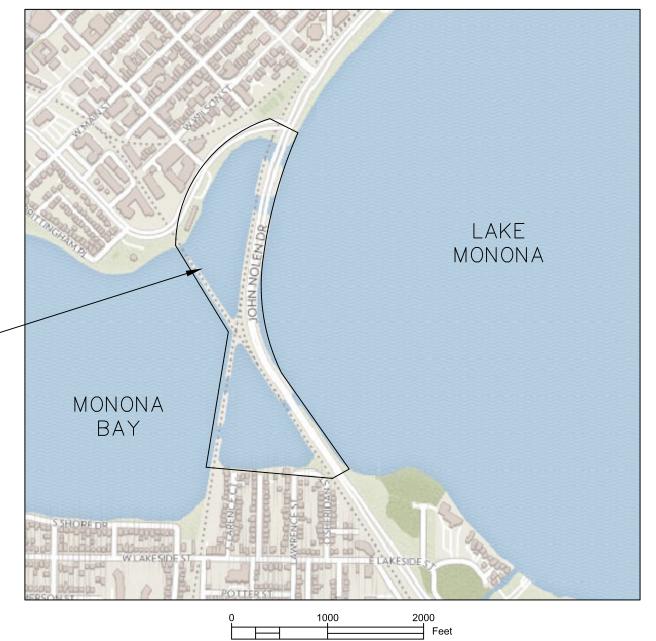
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* NOT INCLUDED IN PLAN SET

PROJECT LOCATION -







PUBLIC IMPROVEMENT PROJECT

PENDING APPROVAL

BY THE COMMON COUNCIL OF MADISON, WISCONSIN

PUBLIC IMPROVEMENT DESIGN APPROVED BY:

CITY ENGINEER

DATE



DESIGNED BY:

BLUE LAKES ENGINEERING

2317 ENGINEERING HALL 1415 ENGINEERINGDRIVE MADISON, WI 53706



NOTE:



REMOVE ASPHALTIC PATH

X REMOVE TREE

BLUE LAKES ENGINEERING

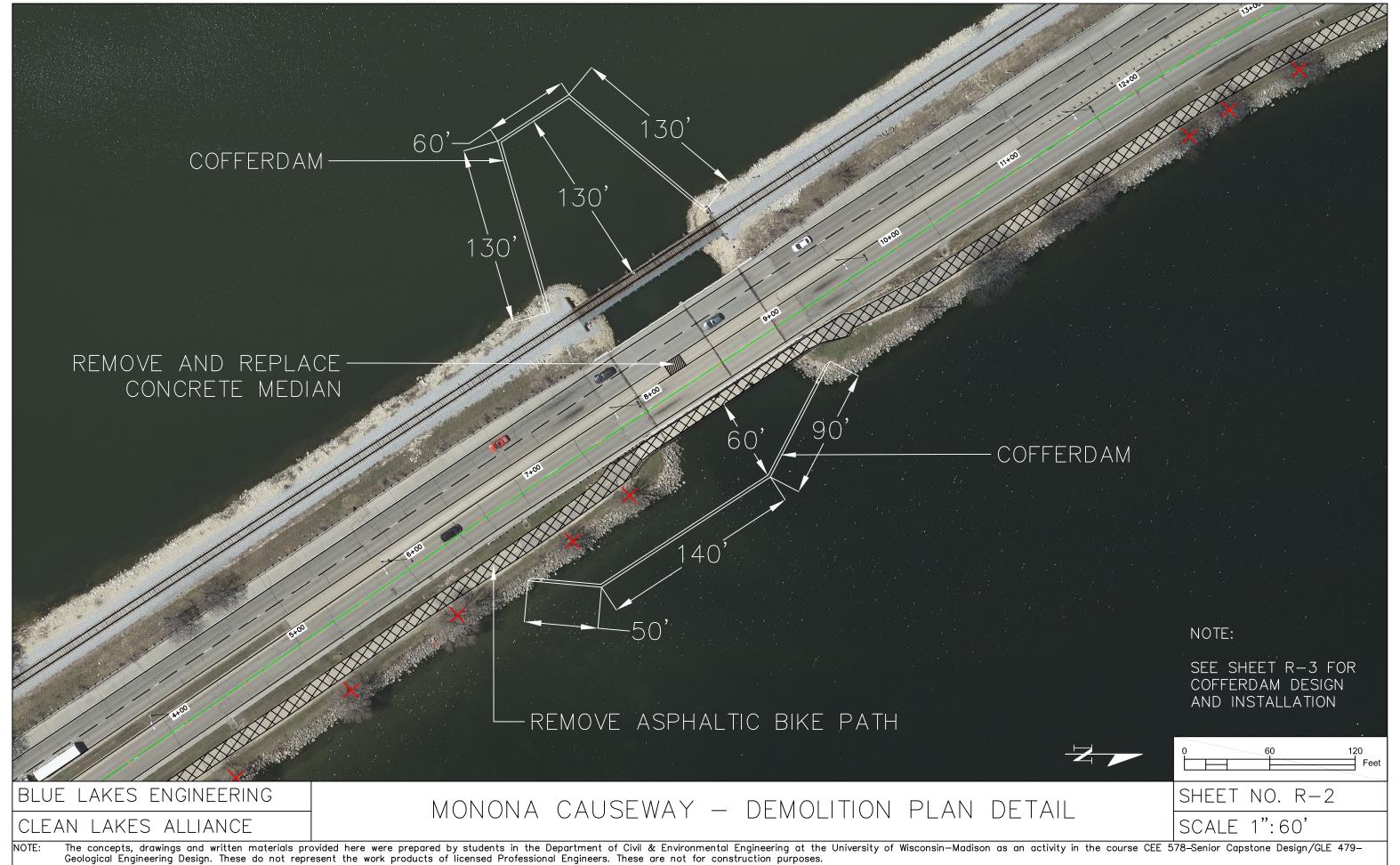
CLEAN LAKES ALLIANCE

MONONA CAUSEWAY - DEMOLITION PLAN

0 200 400 Feet

SHEET NO. R-1

SCALE 1": 200'





BLUE LAKES ENGINEERING

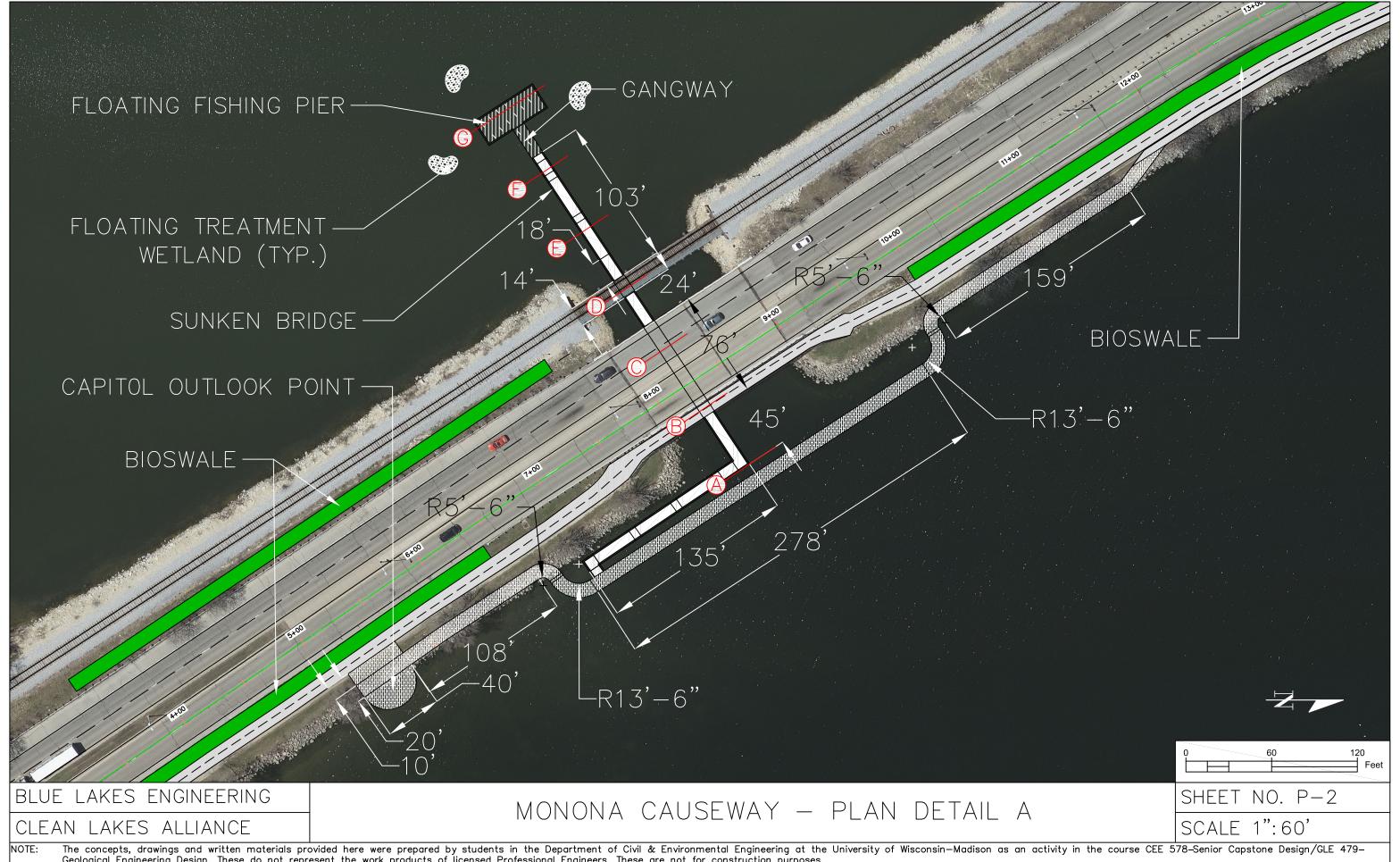
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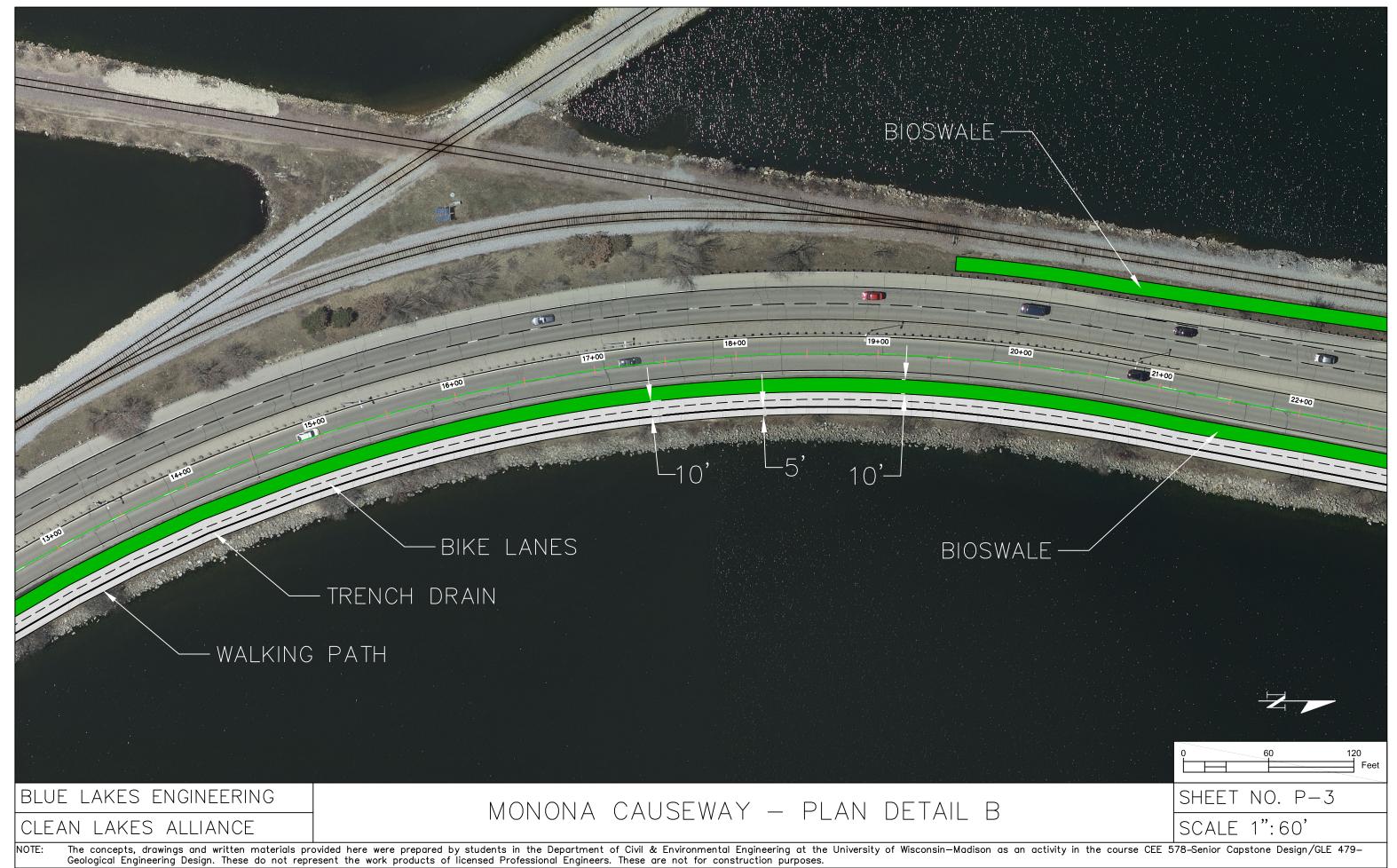
MONONA CAUSEWAY - PLAN OVERVIEW

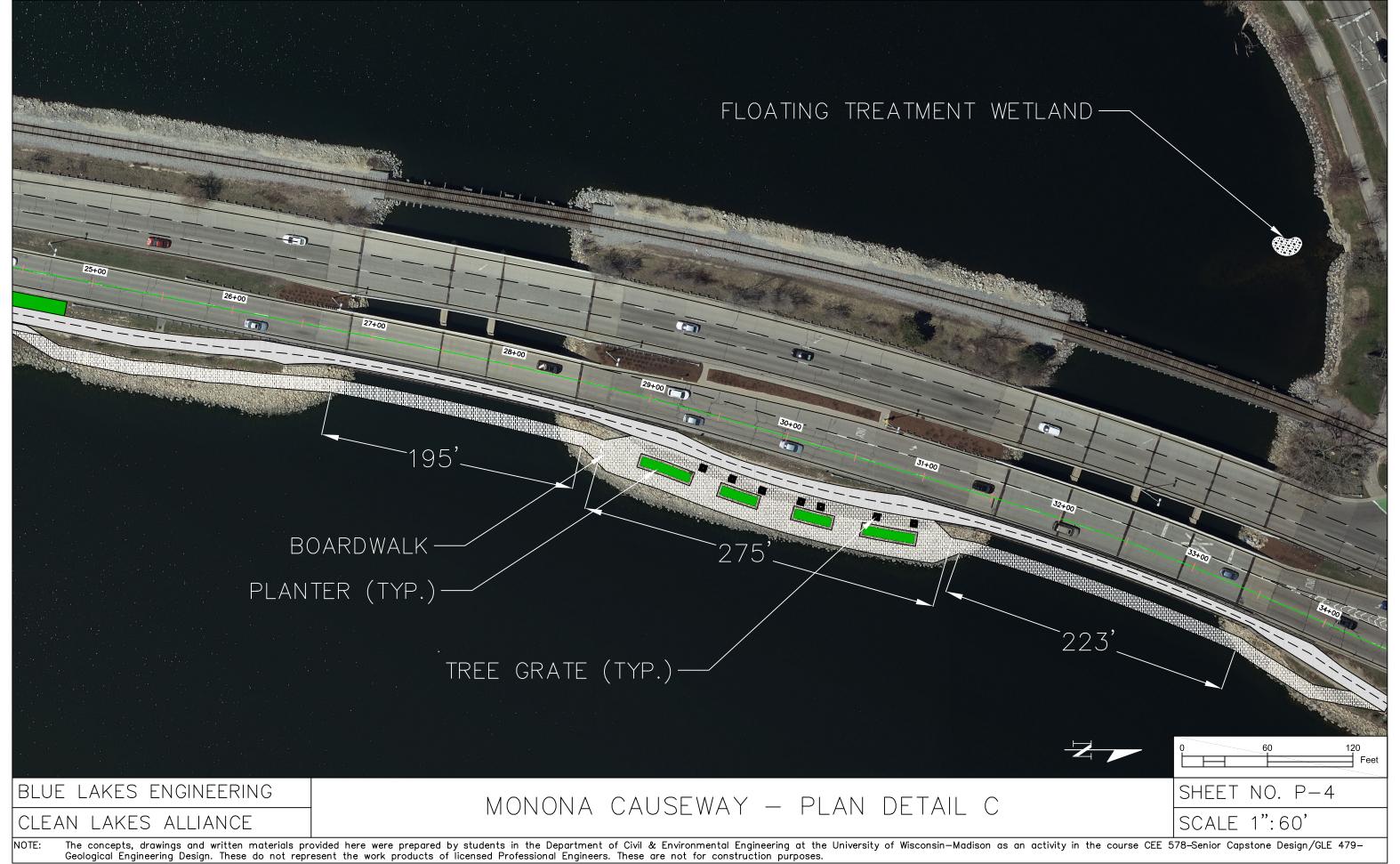
0 200 400 Fee

SHEET NO. P-1

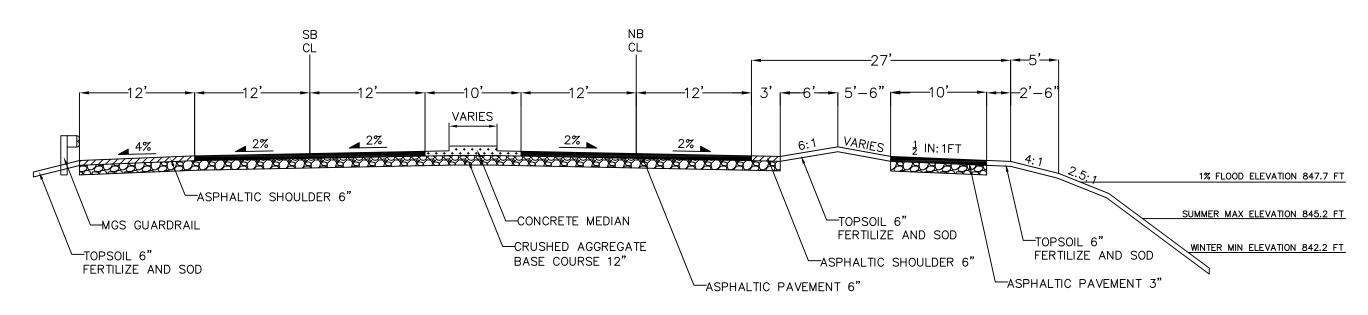
SCALE 1": 200'





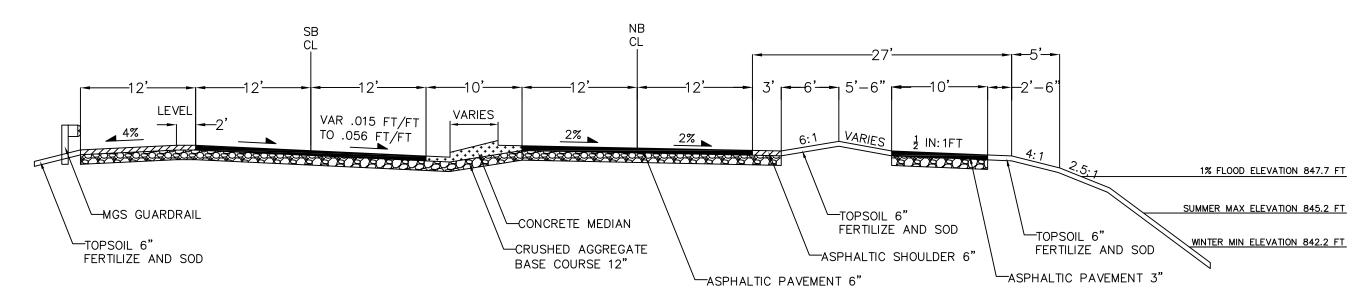






EXISTING CROSS SECTION A

STA 3+50 TO STA 7+50 STA 19+50 TO STA 23+50



NOTE:

MGS - MIDWEST GUARDRAIL SYSTEM

WATER LEVELS FROM THE DANE COUNTY LAKE AND WATER RESOURCES DEPARTMENT

EXISTING CROSS SECTION B

STA 0+00 TO STA 3+50 STA 7+50 TO STA 19+50 STA 23+50 TO STA 34+62

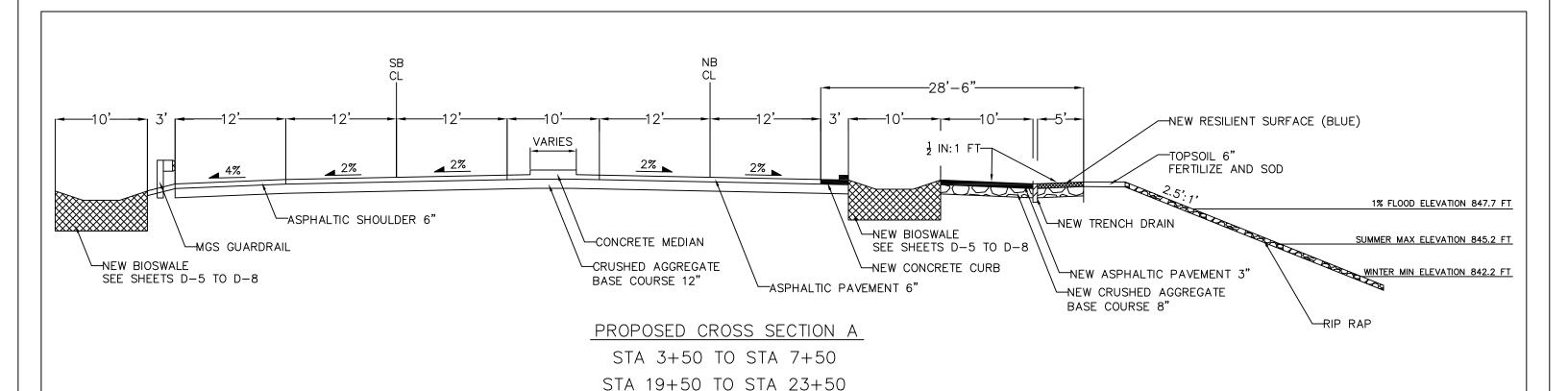
0 10 20 Feet
SHEET NO. D-1

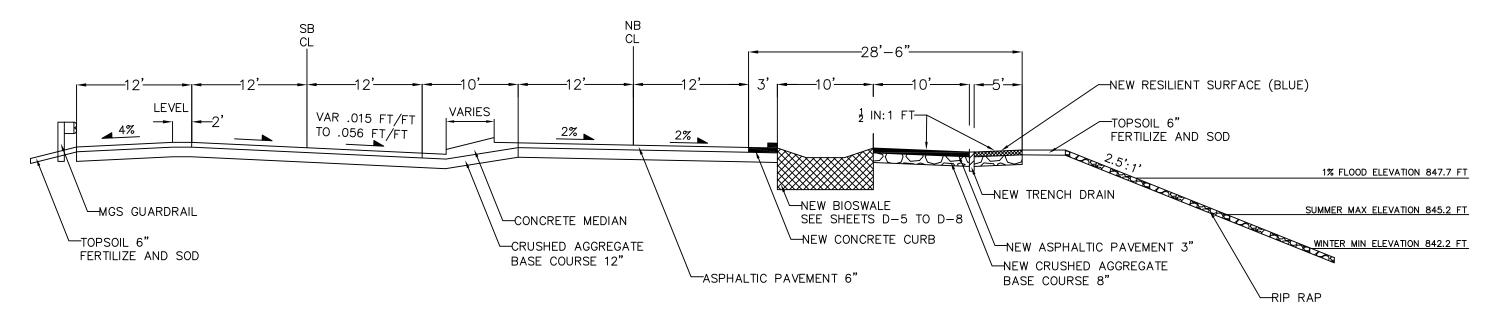
BLUE LAKES ENGINEERING

CLEAN LAKES ALLIANCE

MONONA CAUSEWAY - TYPICAL CROSS SECTIONS

SCALE 1":10'





NOTE:

MGS - MIDWEST GUARDRAIL SYSTEM

WATER LEVELS FROM THE DANE COUNTY LAKE AND WATER RESOURCES DEPARTMENT PROPOSED CROSS SECTION B

STA 0+00 TO STA 3+50 STA 7+50 TO STA 19+50 STA 23+50 TO STA 34+62

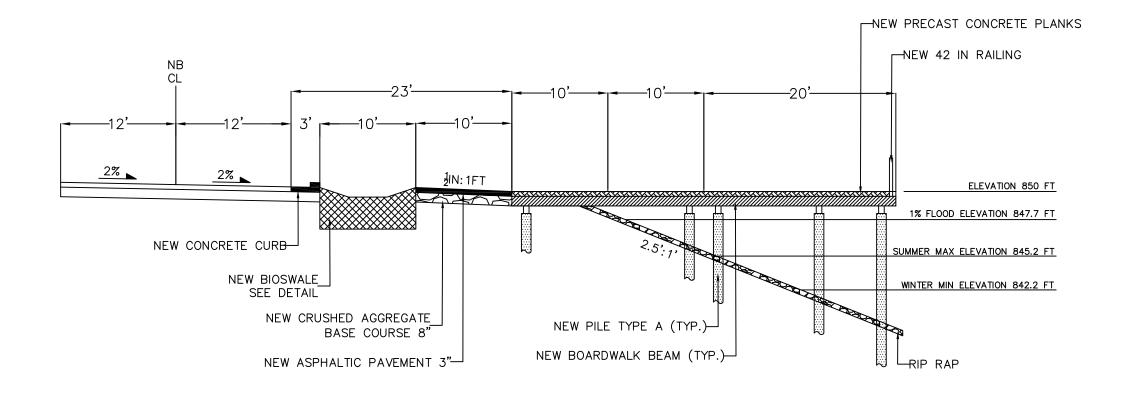
BLUE LAKES ENGINEERING

CLEAN LAKES ALLIANCE

MONONA CAUSEWAY - TYPICAL CROSS SECTIONS

SHEET NO. D-2

SCALE 1":10'



NOTE:

PILES MUST BE BATTERED AT A SLOPE 1' HORIZONTAL: 5' VERTICAL

SEE SHEET S-4 FOR CAPITOL OUTLOOK DETAILS AND PLAN VIEW

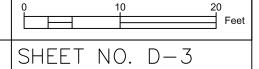
WATER LEVELS FROM THE DANE COUNTY LAKE AND WATER RESOURCES DEPARTMENT

PROPOSED CROSS SECTION C
STA 5+33

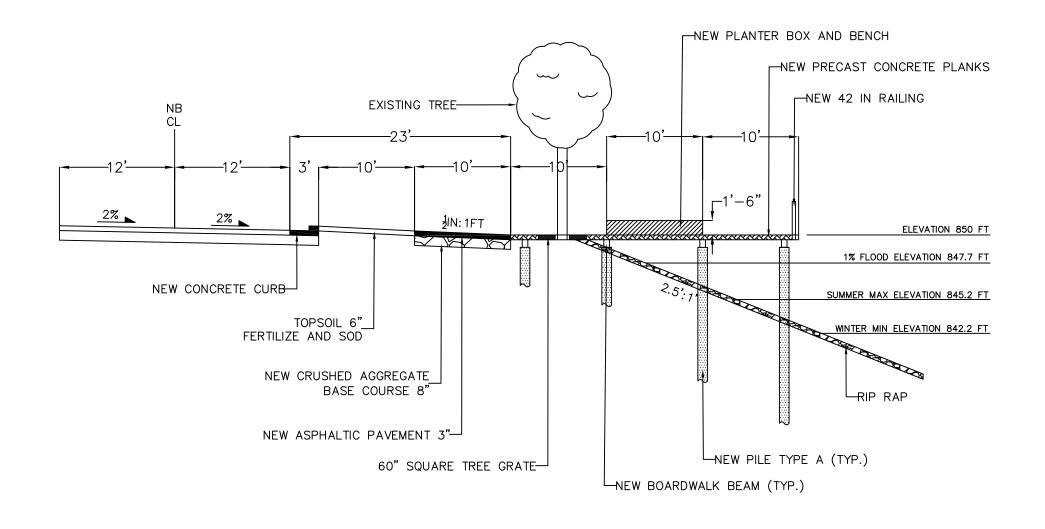
BLUE LAKES ENGINEERING

CLEAN LAKES ALLIANCE

MONONA CAUSEWAY - CAPITOL OUTLOOK CROSS SECTION



SCALE 1":10'



PROPOSED CROSS SECTION D
STA 29+00 TO STA 31+00

NOTE:

PILES MUST BE BATTERED AT A SLOPE 1' HORIZONTAL: 5' VERTICAL

WATER LEVELS FROM THE DANE COUNTY LAKE AND WATER RESOURCES DEPARTMENT

BLUE LAKES ENGINEERING

CLEAN LAKES ALLIANCE

MONONA CAUSEWAY - PROPOSED CROSS SECTION

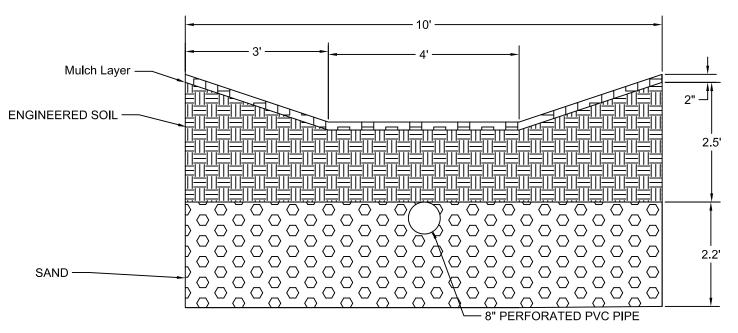
0 10 20 Feet

SHEET NO. D-4

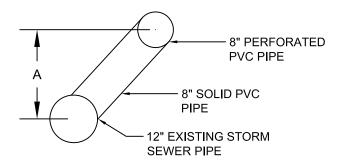
SCALE 1":10'

NOTES

- 1. ENGINEERED SOIL AND SAND PER WI DNR TECHNICAL STANDARD 1004
- 2. BIOSWALE AND OUTFALL LOCATION SHOWN AT
- 3. OUTFALLS TO BE 6" PERFORATED PVC PIPE. DISCHARGE THROUGH RIP RAP AT ADJACENT WATERBODY.

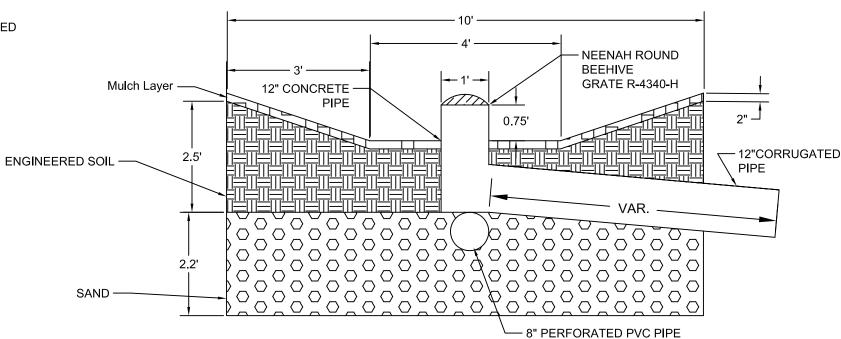


A. STORM SEWER
ELEVATION AND
CONNECTION DETAIL
TO BE DETERMINED
IN THE FIELD AND
CONFIRMED BY
ENGINEER PRIOR TO
CONSTRUCTION



BIOSWALE CONNECTION TO EXISTING STORM SEWER

TYPICAL BIOSWALE CROSS SECTION



TYPICAL BIOSWALE CROSS SECTION WITH OVERFLOW STRUCTURE

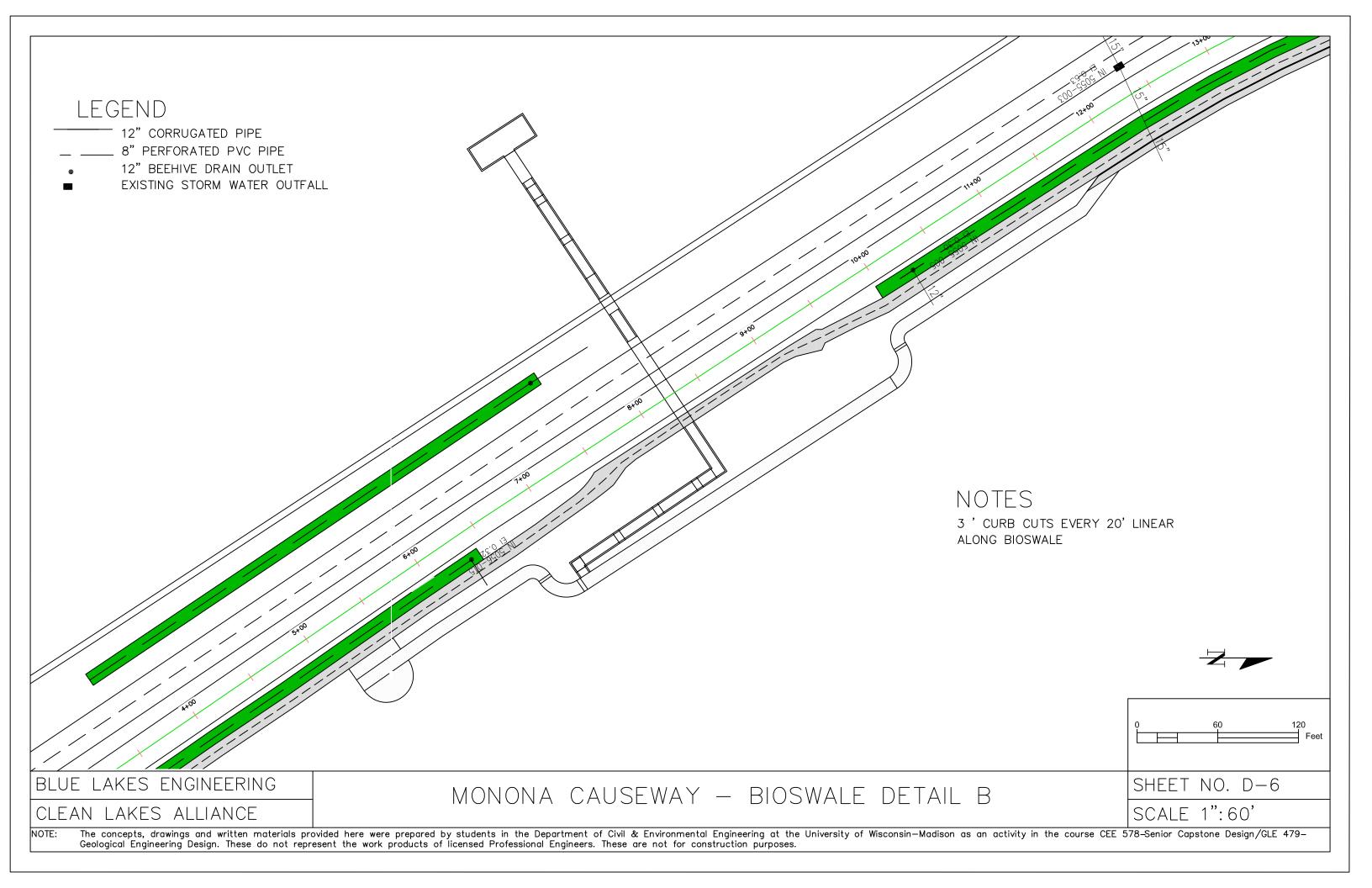
BLUE LAKES ENGINEERING

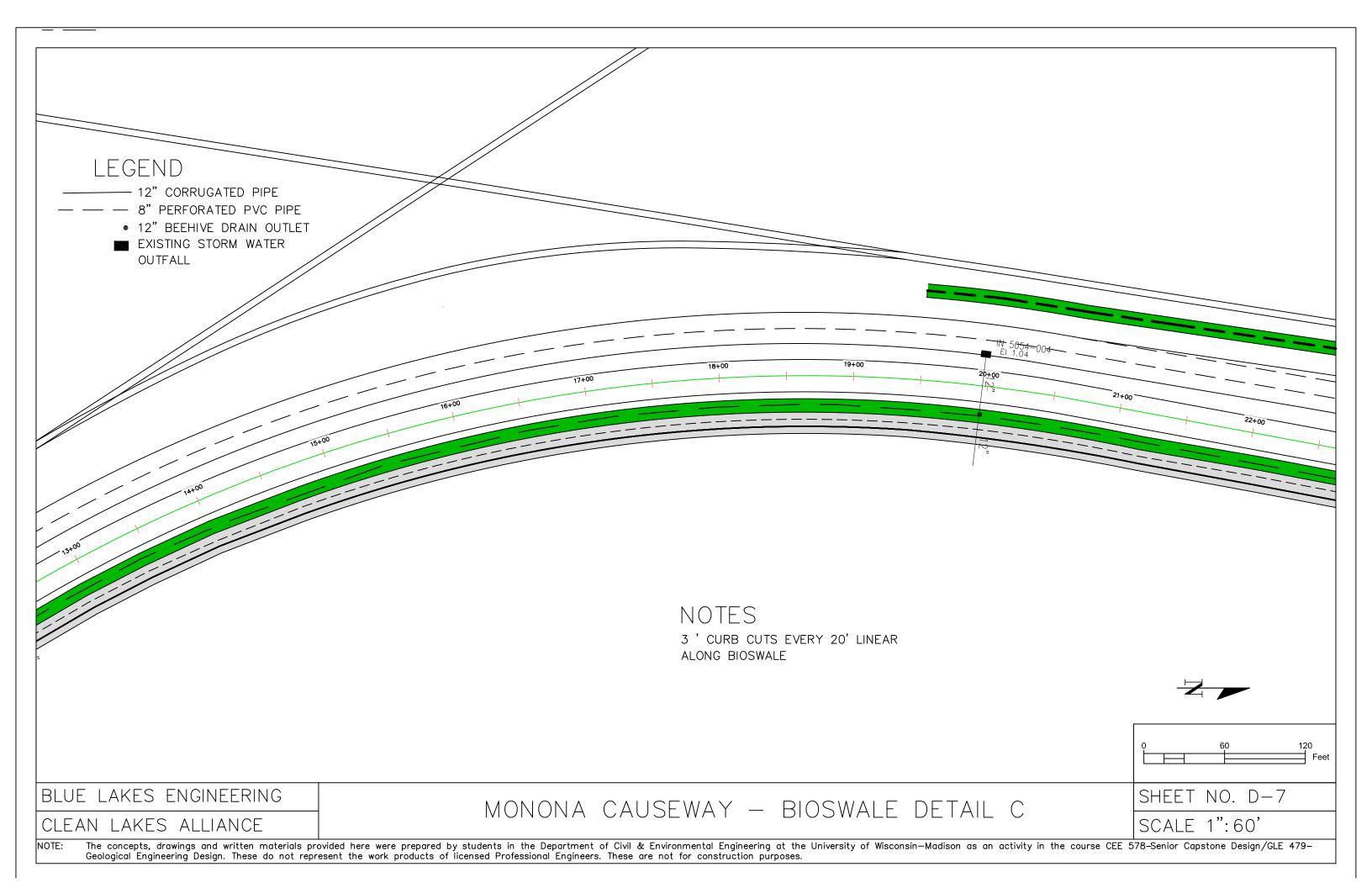
CLEAN LAKES ALLIANCE

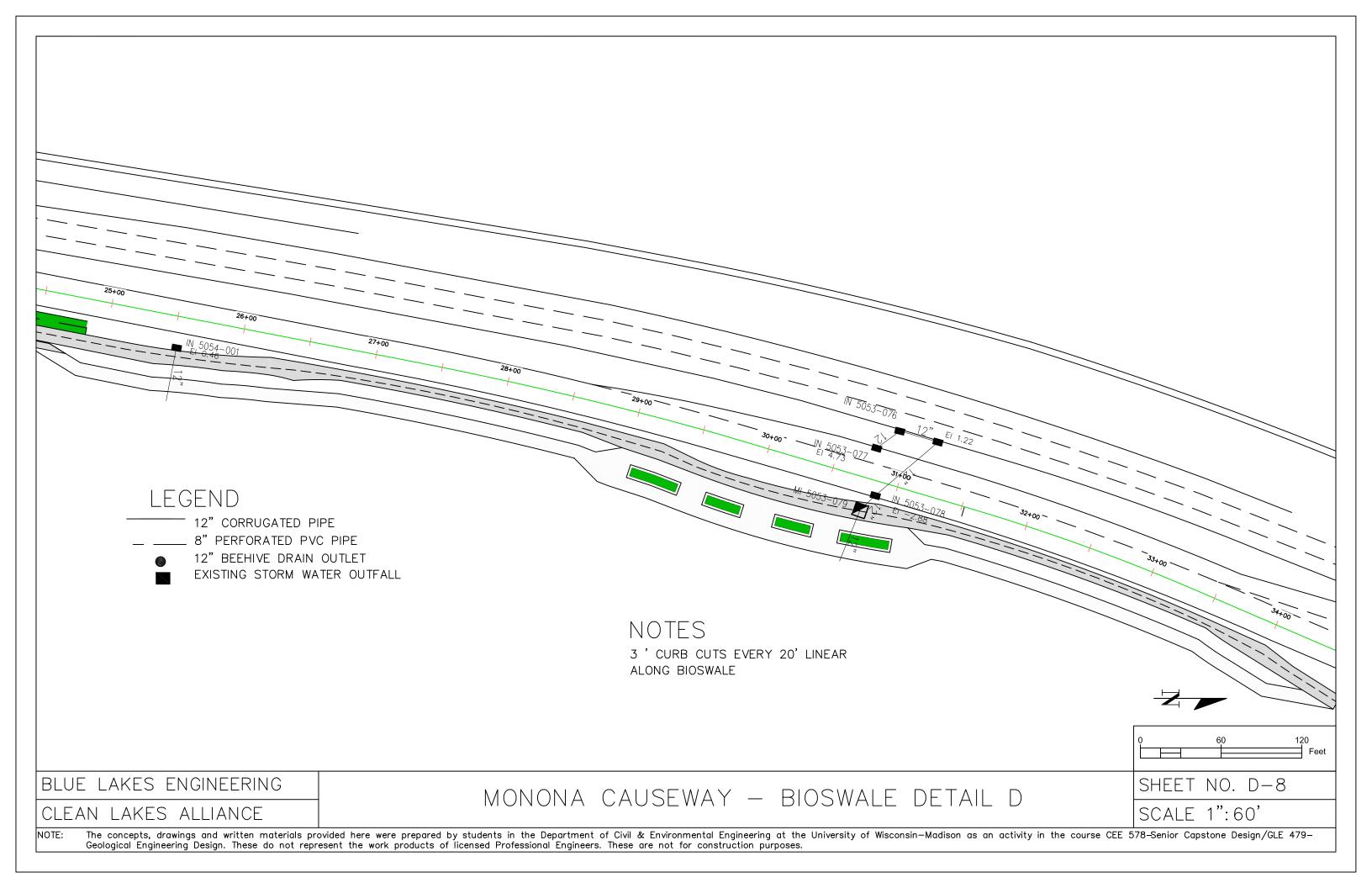
MONONA CAUSEWAY - BIOSWALE DETAIL A

SHEET NO. D-5

SCALE 1":2'

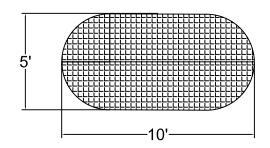




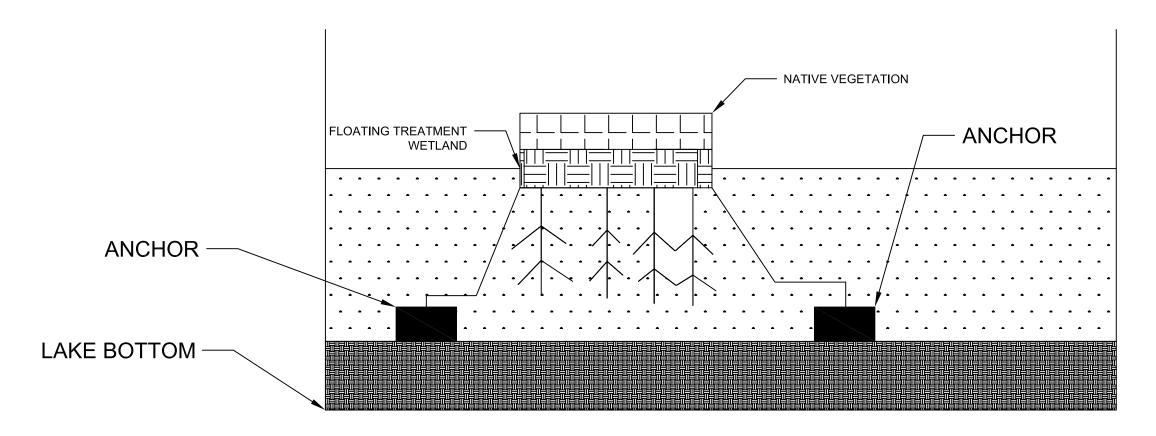


Notes

1. LOCATIONS SEEN IN DRAWING P-2 AND P-4



Floating Treatment Wetland Plan View



Floating Treatment Wetland Cross Section

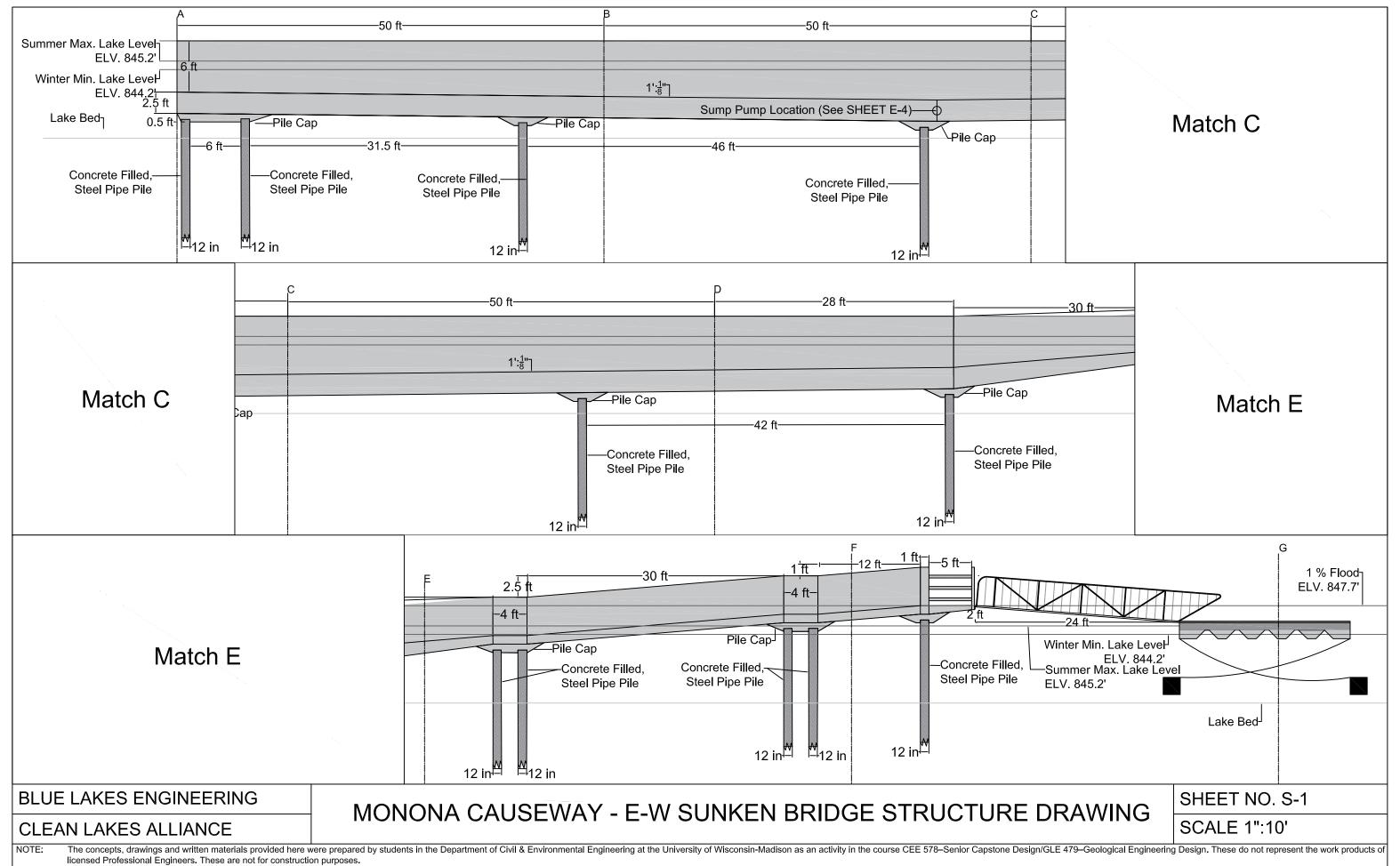
BLUE LAKES ENGINEERING

CLEAN LAKES ALLIANCE

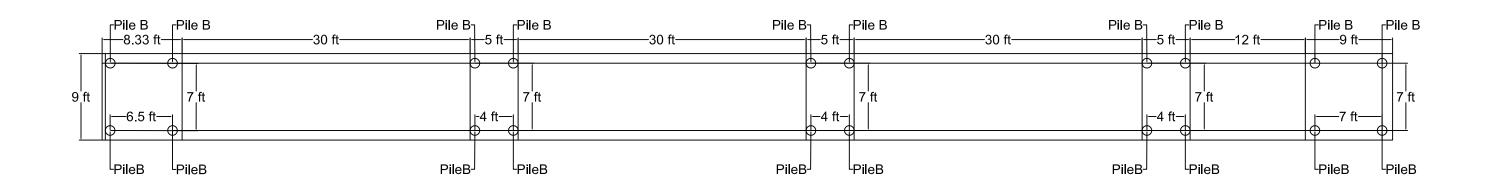
MONONA CAUSEWAY - FLOATING TREATMENT WETLAND DETAIL

SHEET NO. D-9

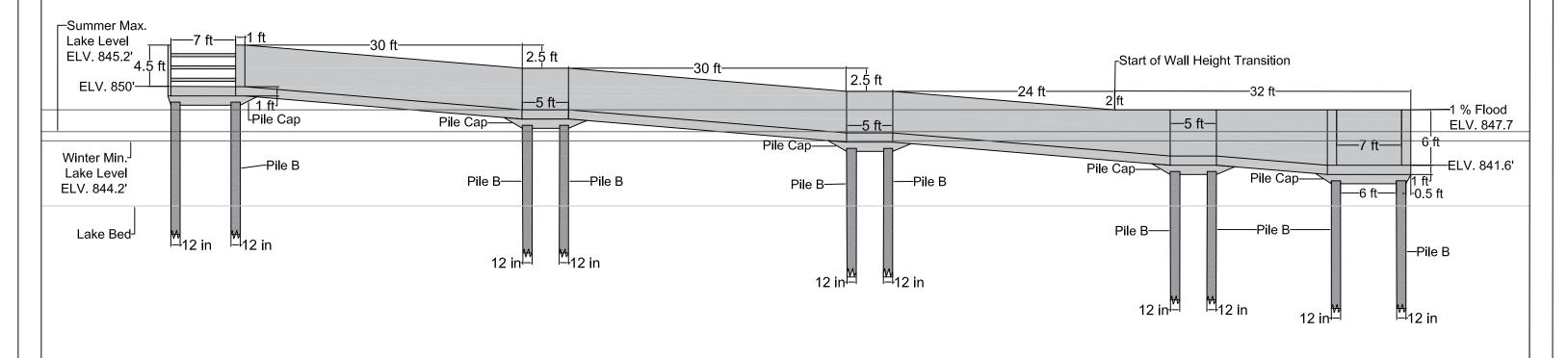
SCALE 1":5'



PLAN VIEW DETAIL E



PROPOSED CROSS SECTION F



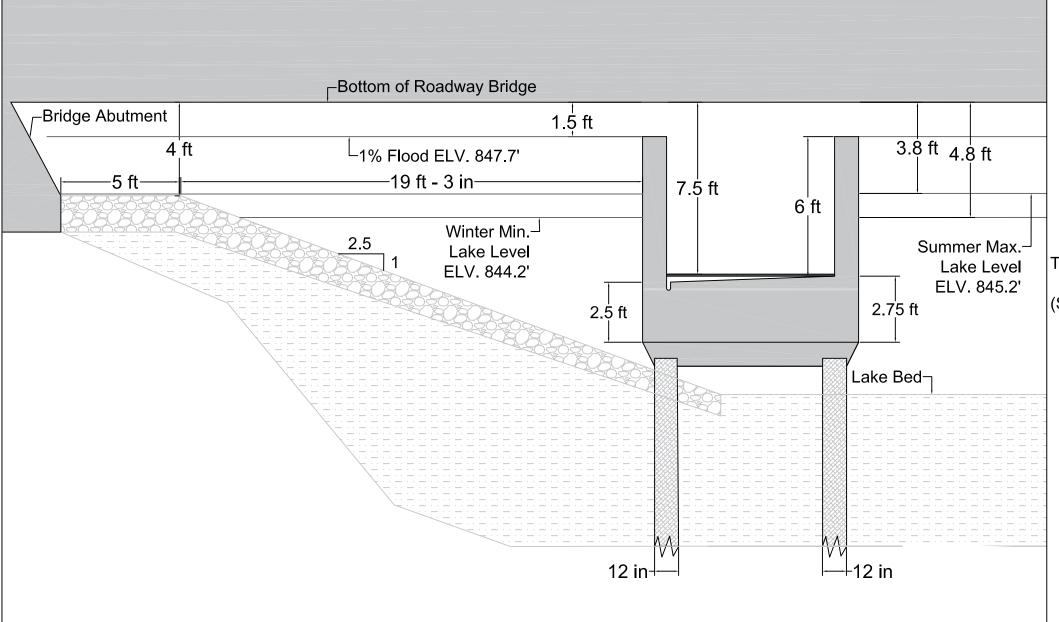
BLUE LAKES ENGINEERING

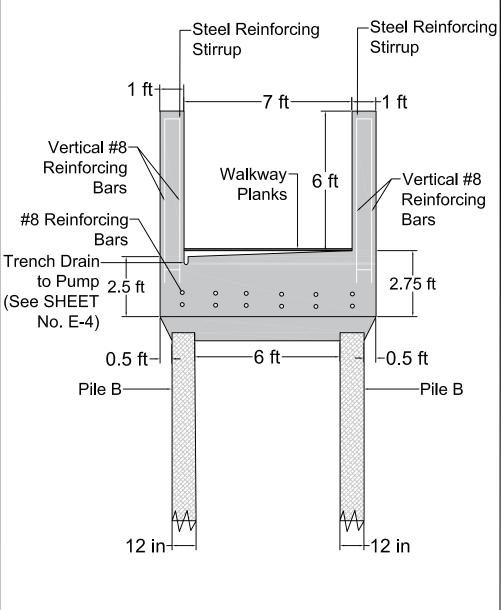
CLEAN LAKES ALLIANCE

MONONA CAUSEWAY - N-S SUNKEN BRIDGE STRUCTURE DRAWING

SHEET NO. S-2 SCALE 1":10'

Pile Type	No. of Piles	Estimated Depth (ft)
Α	210	125
В	38	97





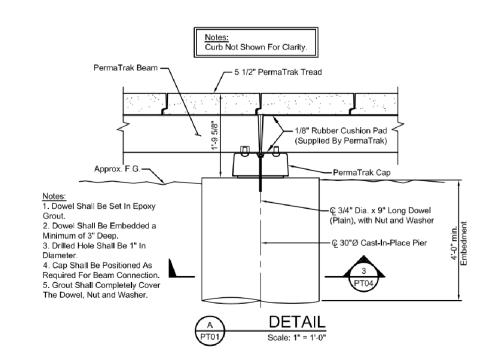
BLUE LAKES ENGINEERING

CLEAN LAKES ALLIANCE

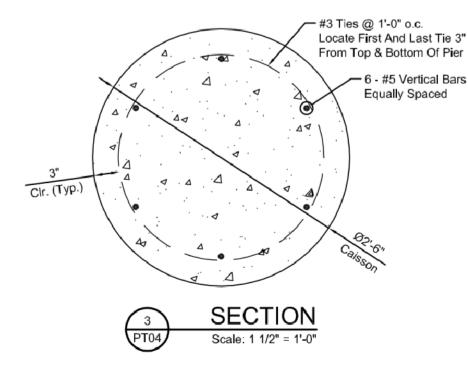
MONONA CAUSEWAY - SUNKEN BRIDGE STRUCTURE CROSS SECTION

SHEET NO. S-3

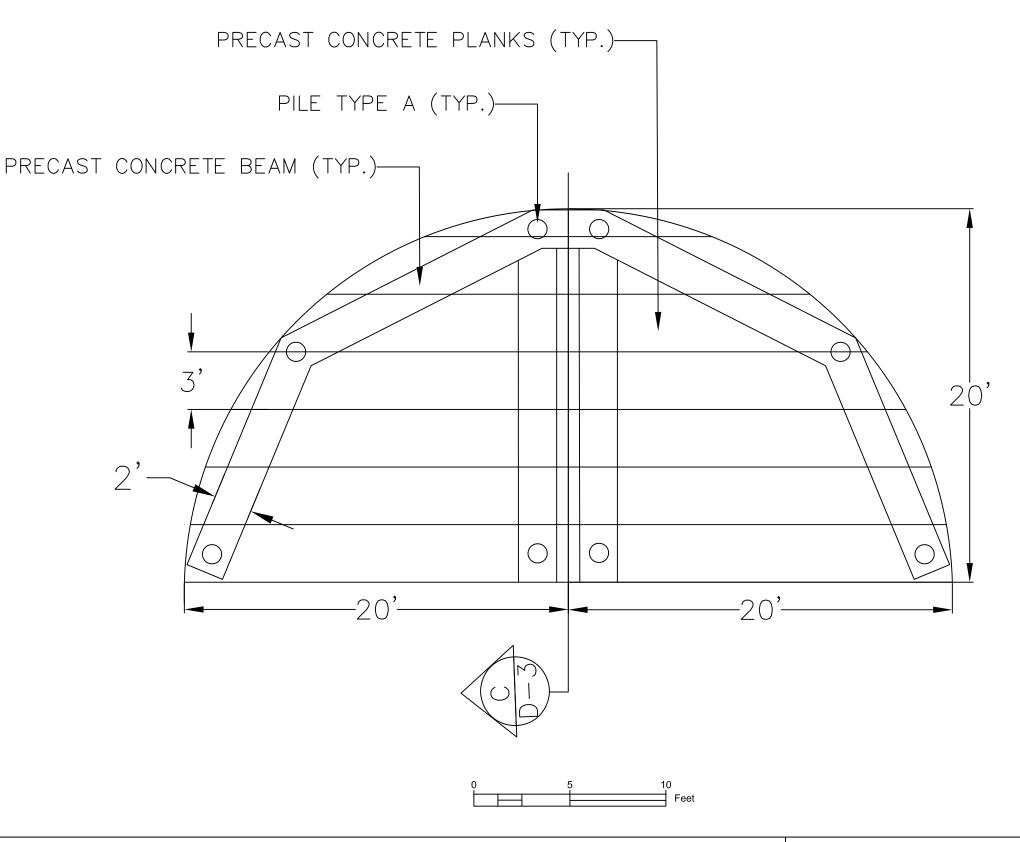
SCALE 1":4'



DETAIL DRAWING BY PERMATRAK



DETAIL DRAWING BY PERMATRAK NOTE: STEEL PIPE PILES (TYPE A) USED INSTEAD OF CAISSONS



BLUE LAKES ENGINEERING

CLEAN LAKES ALLIANCE

MONONA CAUSEWAY - OUTLOOK POINT STRUCTURE

SHEET NO. S-4 SCALE VARIES