GTY $\because$ W
ENGINEERING DIVISION
DEPARTMENT OF PUBLIC WORKS
MONONA CAUSEWAY BIKE AND PEDESTRIAN PATH IMPROVEMENTS

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* NOT INCLUDED IN PLAN SET

PROJECT LOCATION

$\qquad$

$\stackrel{0}{\square}{ }^{1000}{ }^{2000}$ Feet

PUBLIC IMPROVEMENT PROJECT PENDING APPROVAL
by the common council of madison, WISCONSIN

PUBLIC IMPROVEMENT DESIGN APPROVED BY:


DESIGNED BY:
BLUE LAKES ENGINEERING
2317 ENGINEERING HALL 1415 ENGINEFRINGDRIVE MADISON WI 53706

## - Blue <br> Lakes Engineering

## NOTE:

The concepts, drawings and written materials provided here were prepared by students in the Department of Civil \&
Environmental Engineering at the University of Wisconsin-Madison as an activity in the course CEE 578-Senior Capstone Design/GLE 479-Geological Engineering Design. These do not represent the work products of licensed Professional Engineers. These are not for construction purposes.









$$
\begin{aligned}
& \frac{\text { EXISTING CROSS SECTION A }}{\text { STA } 3+50 \text { TO STA } 7+50} \\
& \text { STA } 19+50 \text { TO STA } 23+50
\end{aligned}
$$



NOTE:
MGS - MIDWEST GUARDRAIL SYSTEM
WATER LEVELS FROM THE DANE COUNTY LAKE AND WATER RESOURCES DEPARTMENT STA $23+50$ TO STA $34+62$

## BLUE LAKES ENGINEERING

 CLEAN LAKES ALLIANCE The concepts, drawings and written materials provided here were prepared by students in the Department of Civil \& Environmental Engineering at the
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$$
\begin{aligned}
& \text { PROPOSED CROSS SECTION A } \\
& \hline \text { STA } 3+50 \text { TO STA } 7+50 \\
& \text { STA } 19+50 \text { TO STA } 23+50
\end{aligned}
$$

$$
\begin{aligned}
& \text { PROPOSED CROSS SECTION E } \\
& \hline \text { STA } 0+00 \text { TO STA } 3+50 \\
& \text { STA } 7+50 \text { TO STA } 19+50 \\
& \text { STA } 23+50 \text { TO STA } 34+62
\end{aligned}
$$

MGS - MIDWEST GUARDRAIL SYSTEM
WATER LEVELS FROM THE DANE COUNTY

NOTE:

LAKE AND WATER RESOURCES
DEPARTMENT
BLUE LAKES ENGINEERING
CLEAN LAKES ALLIANCE
MONONA CAUSEWAY - TYPICAL CROSS SECTIONS

| $\stackrel{\square}{\square} \stackrel{10}{10}^{20}$ |
| :---: |
| SHEET NO. D-2 |
| SCALE 1": 10 ' |

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 Geological Engineering Design. These do not represent the work products of licensed Professional Engineers. These are not for construction purposes.


$$
\frac{\text { PROPOSED CROSS SECTION D }}{\text { STA } 29+00 \text { TO STA } 31+00}
$$

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

WATER LEVELS FROM THE DANE COUNTY LAKE AND WATER RESOURCES
LAKE AND WATER RESOURCES
DEPARTMENT
BLUE LAKES ENGINEERING
CLEAN LAKES ALLIANCE
MONONA CAUSEWAY - PROPOSED CROSS SECTION


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NOTES

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

NOTE
A. STORM SEWER ELEVATION AND TO BE DETERMINED IN THE FIELD AND
CONFIRMED BY 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 | MONONA CAUSEWAY - BIOSWALE DETAIL A | SHEET NO. D-5 |
| :---: | :---: | :---: |
| CLEAN LAKES ALLIANCE |  | SCALE 1":2' |

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## Notes

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


Floating Treatment Wetland Plan View


Floating Treatment Wetland Cross Section

| BLUE LAKES ENGINEERING | MONONA CAUSEWAY - FLOATING TREATMENT WETLAND DETAIL | SHEET NO. D-9 |
| :---: | :---: | :---: |
| CLEAN LAKES ALLIANCE |  | SCALE 1":5' |




## PLAN VIEW DETAIL E



PROPOSED CROSS SECTION F




DETAIL DRAWING BY PERMATRAK


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

PRECAST CONCRETE PLANKS (TYP.)

PILE TYPE A (TYP.)


