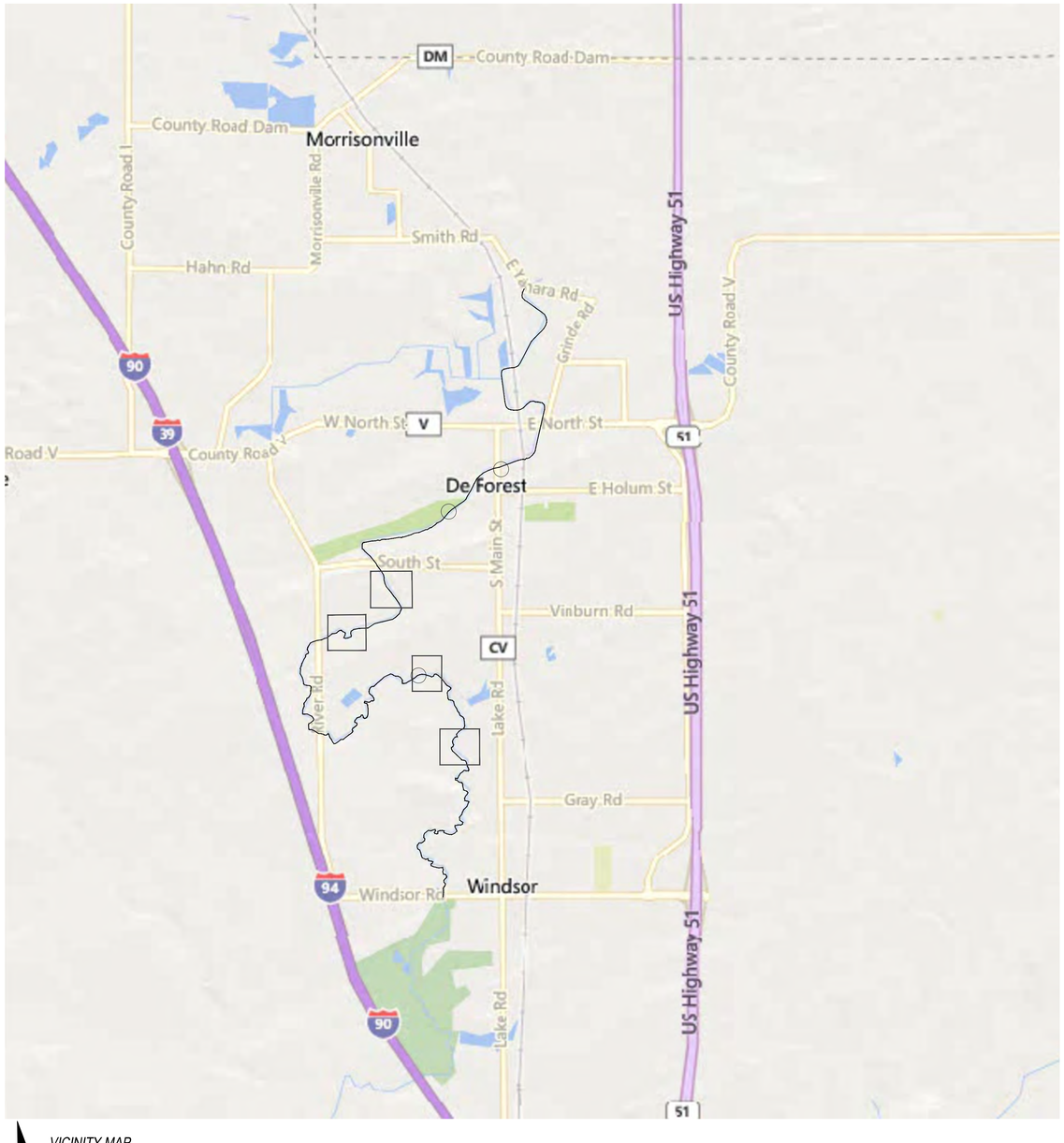
Yahara River Deforest Bank Stabilization

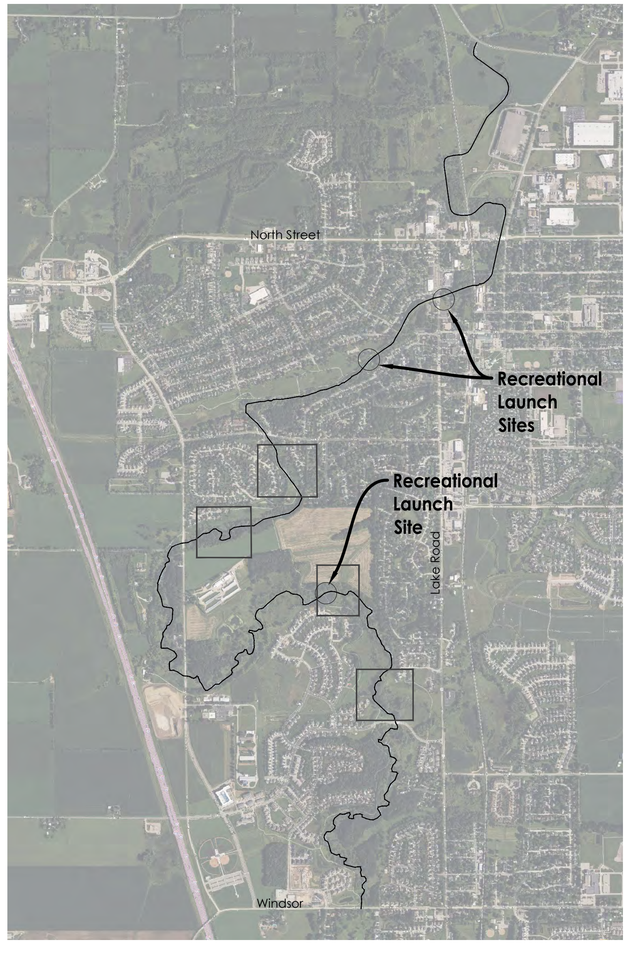
Dane County, Wisconsin
AUGUST 2025



VICINITY MAP
SCALE: 1" = 2000'

Sheet List Table

Sheet Number	Sheet Title
1	TITLE SHEET AND SHEET INDEX
2	OVERVIEW
3-9	AREA SHEETS 3-8
10-12	CROSS SECTIONS
13-14	DETAILS
15	MATERIALS



SITE MAP
SCALE: 1"= 1500'

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Revision | By | Appd. | YY.MM.DD
Issued | By | Appd. | YY.MM.DD

Client/Project
YAHARA RIVER DEFOREST

DANE COUNTY, WISCONSIN

Title
TITLE SHEET AND SHEET INDEX

Permit-Seal

Project Number: 193709510
File Name:

COD	-	HES	2025.07.08
Dwn.	Chkd.	Dsgn.	YY.MM.DD

Drawing No. 1
Revision Sheet
1 of 15

PlotDate: 2025.07.24 2:03 PM Login: Millen, Griffin
u:\1937\09\510\03_data\gis_cad\cad\2025\08_yahara_cover.dwg

STRUCTURE TABLE

Downstream Bank	Station Begin	Station End	Stablization Measure	Cross Sections
Left	79+90	80+10	Recreational Launch	
Right	99+75	99+55	Recreational Launch	
Right	137+50	140+00	Bank Grading	139+50
Left	137+50	140+00	Bank Grading	139+50
Right	140+00	141+50	Toewood	
Right	145+00	151+50	Bank Grading	146+50, 148+00
Right	165+00	166+00	Bank Grading with Toewood	165+50
Right	166+00	167+75	Bank Grading	167+00
Right	168+50	169+25	Bank Grading	168+50
Right	169+75	171+10	Bank Grading with Toewood	170+50
Right	171+50	172+50	Toewood	172+00
Right	265+00	266+00	Bank Grading with Toewood	266+50
Right	267+50	268+25	Bank Grading with Toewood	268+50
Right	269+00	-	J-Hook	
Right	269+70	-	J-Hook	
Right	269+00	269+70	Bank Grading with Toewood	
Left	294+00	295+00	Bank Grading with Toewood	
Right	295+00	296+30	Bank Grading with Toewood	295+70
Right	303+10	304+50	Bank Grading, J-Hook, with Toewood	303+50

NOTES:
1. BEFORE WORK IS TO BEGIN, TRAIL CONDITIONS SHALL BE DOCUMENTED AND SUBMITTED TO THE OWNER.

NORATH STREET
HOLUM STREET
SOUTH STREET
VINBURN ROAD
GRAY ROAD
STATE ROAD 39
RIVER ROAD
INNOVATION DR
LAKE ROAD

SHEET 3 Veteran's Memorial Launch
SHEET 4 Western Green Launch
SHEET 5 Upper Yahara River Trail Kayak Launch
SHEET 6 South Street to River Road North
SHEET 7 South Street to River Road North
SHEET 8 Yahara River Trail to Innovation Drive
SHEET 9 Yahara River Trail to Innovation Drive

SITE MAP
SCALE: 1" = 600'
0 300 600
N

LEGEND
YAHARA RIVER
PARCEL BOUNDARY
DIRECTION OF FLOW

NOTE
Utilitity locations shall be verified prior to ground disturbance.

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Permit/Seal

Client/Project
YAHARA_RIVER_DEFOREST
DANE_COUNTY_WISCONSIN

Project No.: 193709510
File Name: 20250708_YAHARA_DESIGN

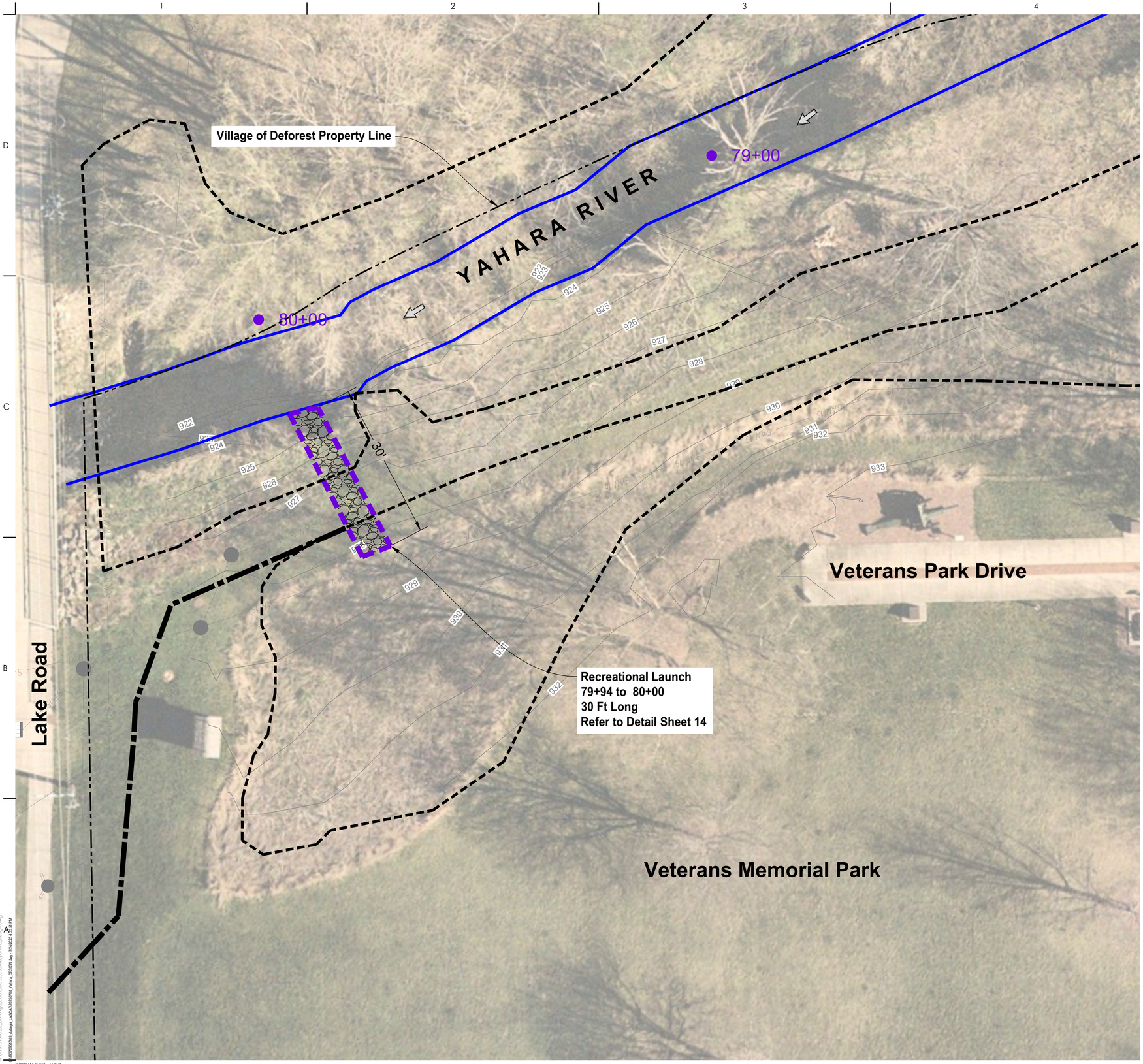
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COD	HES	CHKD	2025.07.08
Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Title
OVERVIEW

Revision: Sheet: of
Drawing No.
2

PlotDate: 2025.07.24 4:33 PM by: Logan Millner, Griffin
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ORIGINAL SHEET - ANSI D



SITE MAP

SCALE: 1" = 10'

0 5 10

N

LEGEND

- YAHARA RIVER
- PARCEL BOUNDARY
- DIRECTION OF FLOW
- EXISTING GRADE
- SANITARY SEWER LINE
- STORMWATER LINE
- WATER MAIN
- WATER VALVE
- STORMWATER CURB INLET
- STORMWATER MANHOLE
- COMBINED SEWER MANHOLE
- WATER HYDRANT
- SANITARY MANHOLE
- NATIONAL WETLAND INVENTORY
- PROPOSED RECREATIONAL LAUNCH
- PROPOSED ACCESS ROUTE
- VILLAGE OF DEFOREST PROPERTY LINE

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Client/Project

YAHARA_RIVER_DEFOREST

DANE_COUNTY_WISCONSIN

Project No.: 193709510

File Name: 20250708_YAHARA_DESIGN

Scale:

COD	HES	–	2025.07.08
Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Title

VETERAN'S MEMORIAL LAUNCH

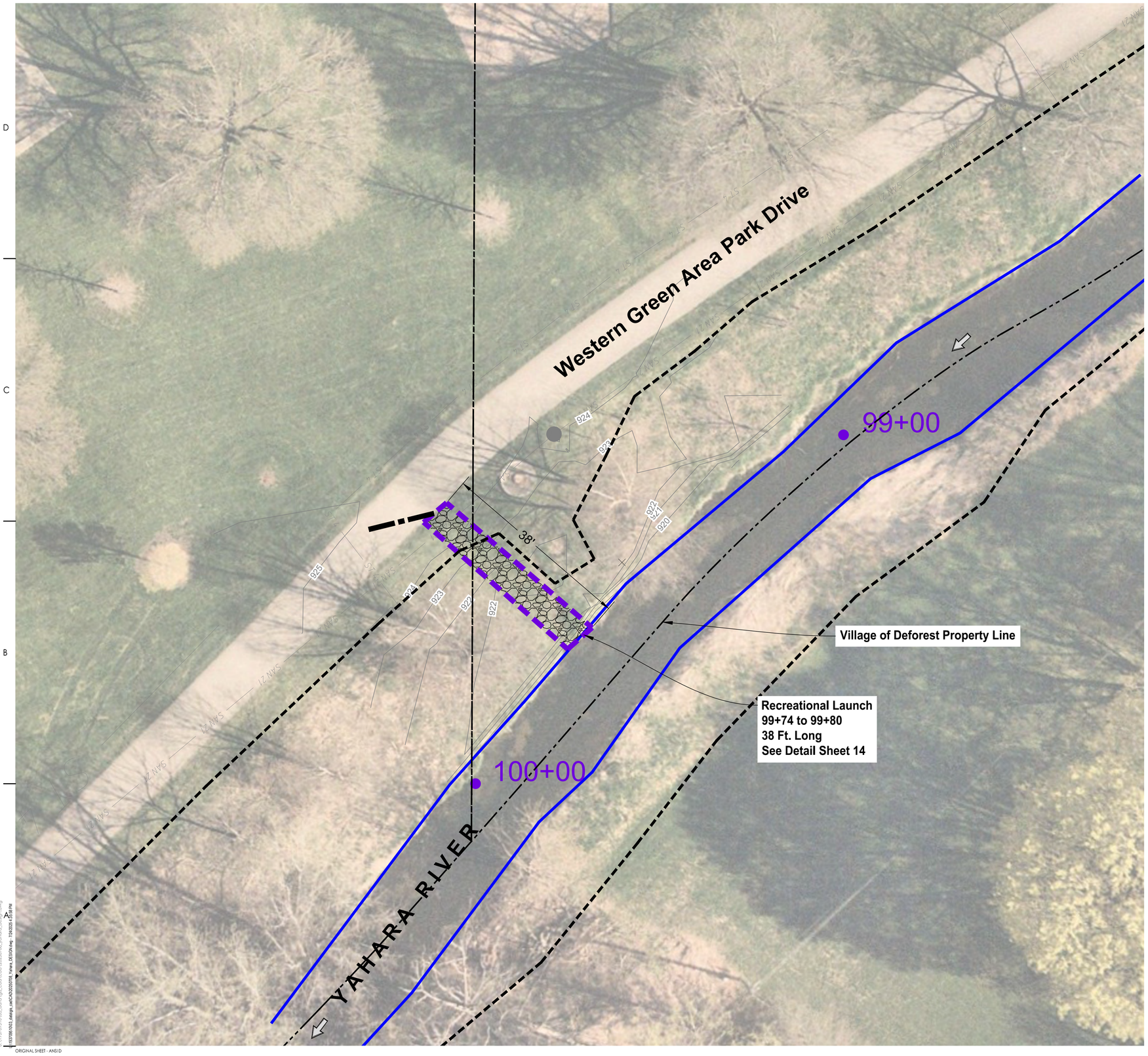
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Drawing No.

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ORIGINAL SHEET - ANSI D



SITE MAP
SCALE: 1" = 10'
0 5 10

N

LEGEND

- YAHARA RIVER
- PARCEL BOUNDARY
- DIRECTION OF FLOW
- EXISTING GRADE
- SANITARY SEWER LINE
- STORMWATER LINE
- WATER MAIN
- WATER VALVE
- STORMWATER CURB INLET
- STORMWATER MANHOLE
- COMBINED SEWER MANHOLE
- WATER HYDRANT
- SANITARY MANHOLE
- NATIONAL WETLAND INVENTORY
- PROPOSED RECREATIONAL LAUNCH
- PROPOSED ACCESS ROUTE
- VILLAGE OF DEFOREST PROPERTY LINE

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Client/Project
YAHARA_RIVER_DEFOREST
DANE_COUNTY_WISCONSIN

Project No.: 193709510
File Name: 20250708_YAHARA_DESIGN

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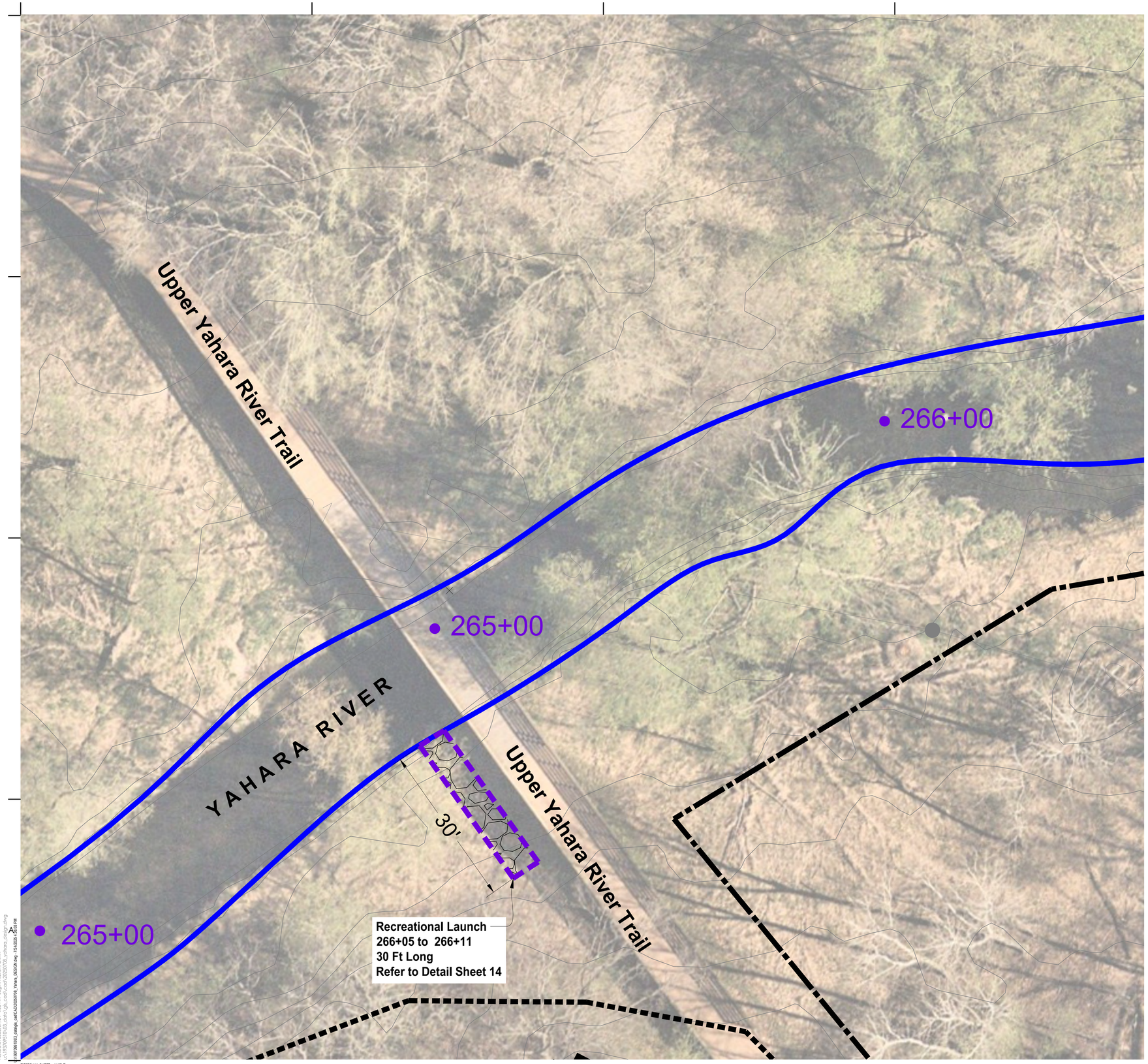
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Dwn.	Dsgn.	Chkd. YYYY.MM.DD

Title
WESTERN GREEN LAUNCH

Revision: Sheet: of
Drawing No.
4

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ORIGINAL SHEET - ANSI D



SITE MAP
SCALE: 1" = 10'
0 5 10

N

LEGEND

- YAHARA RIVER
- PARCEL BOUNDARY
- DIRECTION OF FLOW
- EXISTING GRADE
- SANITARY SEWER LINE
- STORMWATER LINE
- WATER MAIN
- WATER VALVE
- STORMWATER CURB INLET
- STORMWATER MANHOLE
- COMBINED SEWER MANHOLE
- WATER HYDRANT
- SANITARY MANHOLE
- NATIONAL WETLAND INVENTORY
- PROPOSED RECREATIONAL LAUNCH
- PROPOSED ACCESS ROUTE
- VILLAGE OF DEFOREST PROPERTY LINE

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Client/Project
YAHARA_RIVER_DEFOREST
DANE_COUNTY_WISCONSIN

Project No.: 193709510
File Name: 20250708_YAHARA_DESIGN

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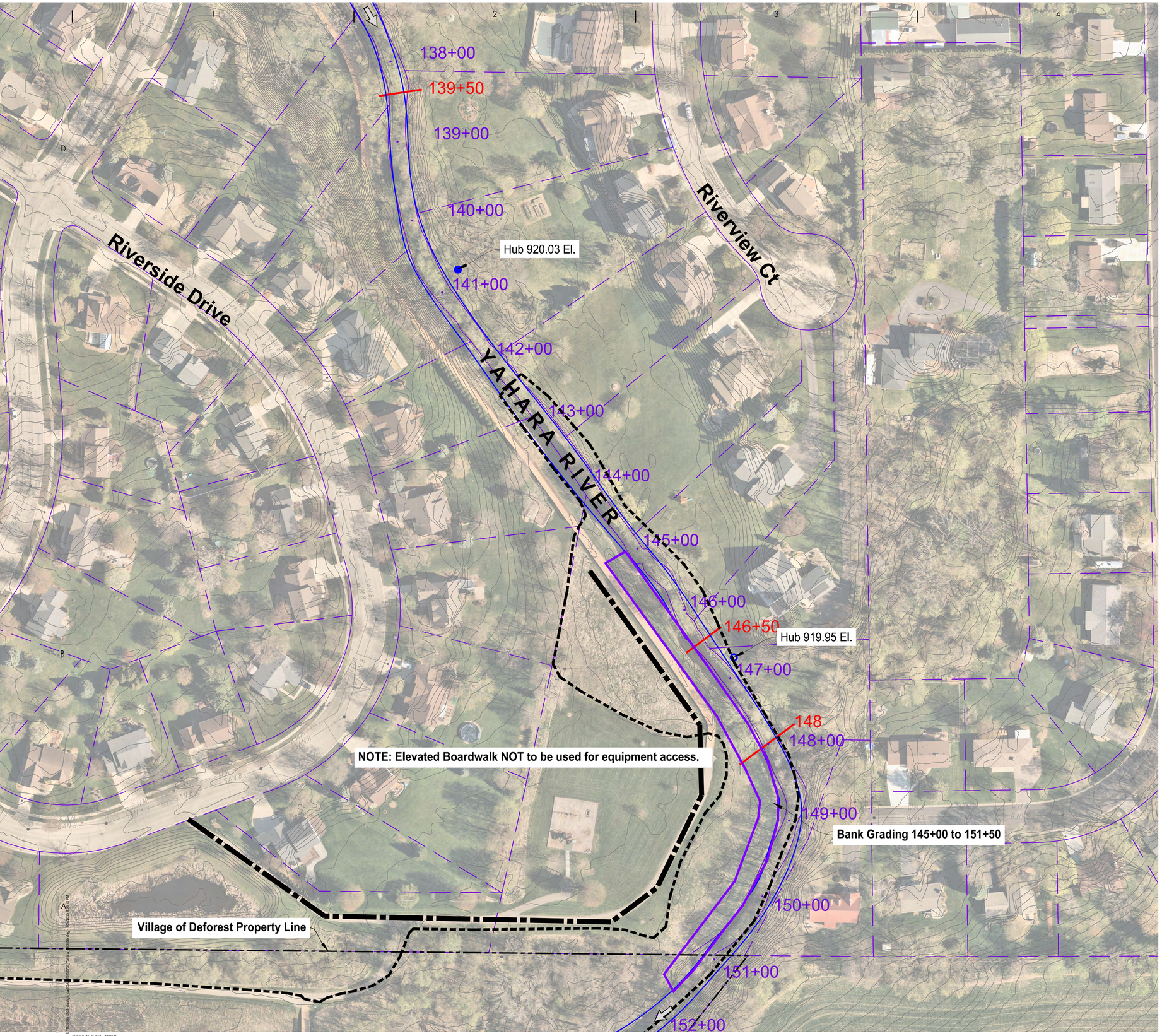
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Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Title
UPPER YAHARA RIVER TRAIL KAYAK LAUNCH

Revision: Sheet: of

Drawing No.
5

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ORIGINAL SHEET - ANSI D



SITE MAP

SCALE: 1" = 60'

0 30 60

N

LEGEND

- YAHARA RIVER
- PARCEL BOUNDARY
- DIRECTION OF FLOW
- EXISTING GRADE
- SANITARY SEWER LINE
- STORMWATER LINE
- WATER MAIN
- WATER VALVE
- STORMWATER CURB INLET
- STORMWATER MANHOLE
- COMBINED SEWER MANHOLE
- WATER HYDRANT
- SANITARY MANHOLE
- NATIONAL WETLAND INVENTORY
- PROPOSED TOEWOOD
- BANK GRADING
- J-HOOK
- PROPOSED ACCESS ROUTE
- VILLAGE OF DEFOREST PROPERY LINE

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DANE_COUNTY_WISCONSIN

Project No.: 193709510
File Name: 20250708_YAHARA_DESIGN

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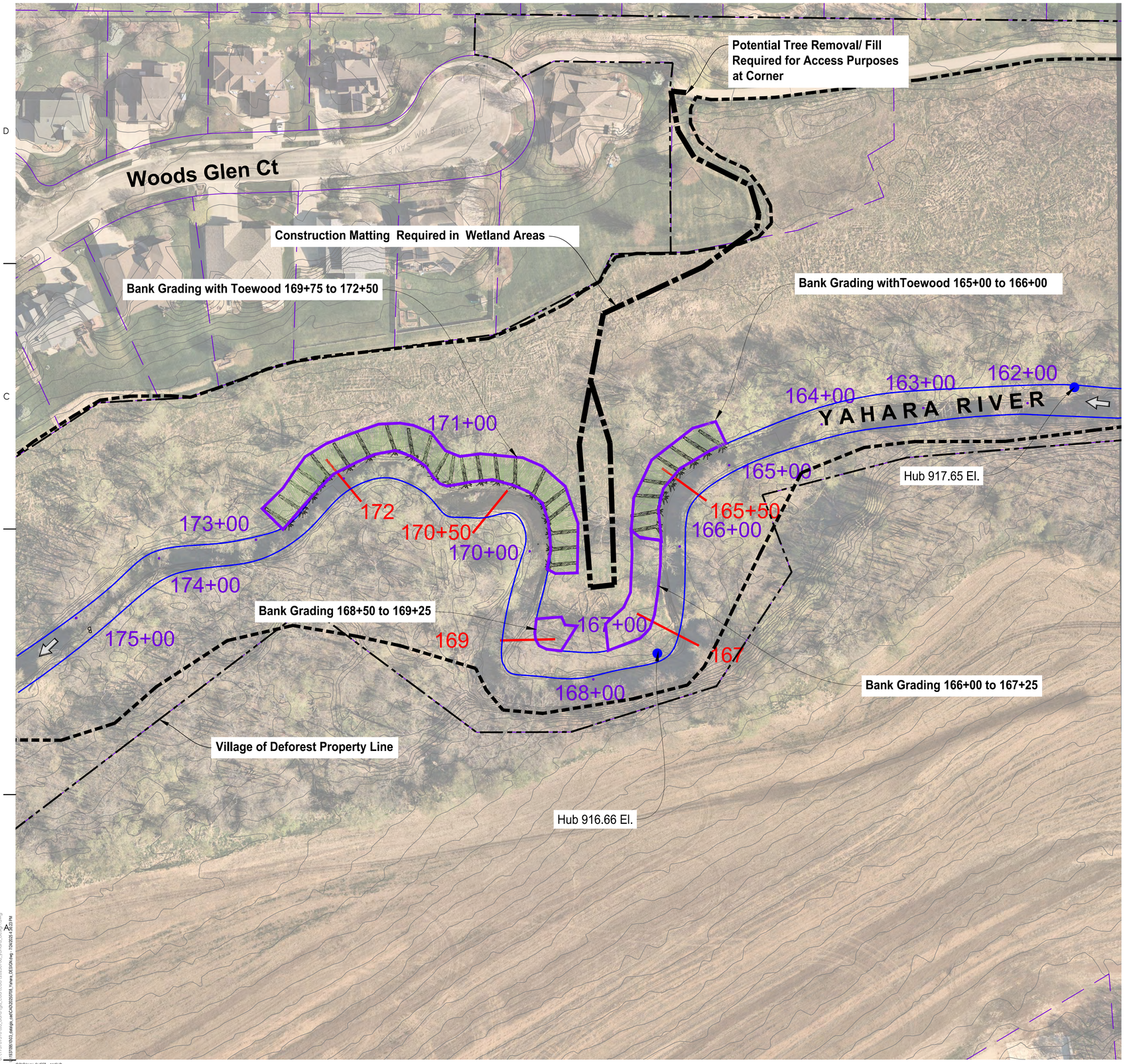
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Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Title
SOUTH STREET TO RIVER ROAD NORTH

Revision: Sheet: of

Drawing No.
6

ORIGINAL SHEET - ANSI D



SITE MAP
SCALE: 1" = 50'
0 25 50

N

LEGEND

- YAHARA RIVER
- PARCEL BOUNDARY
- DIRECTION OF FLOW
- EXISTING GRADE
- SANITARY SEWER LINE
- STORMWATER LINE
- WATER MAIN
- WATER VALVE
- STORMWATER CURB INLET
- STORMWATER MANHOLE
- COMBINED SEWER MANHOLE
- WATER HYDRANT
- SANITARY MANHOLE
- NATIONAL WETLAND INVENTORY
- PROPOSED TOEWOOD
- BANK GRADING
- J-HOOK
- PROPOSED ACCESS ROUTE
- VILLAGE OF DEFOREST PROPERY LINE

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Client/Project
YAHARA_RIVER_DEFOREST
DANE_COUNTY_WISCONSIN

Project No.: 193709510
File Name: 20250708_YAHARA_DESIGN

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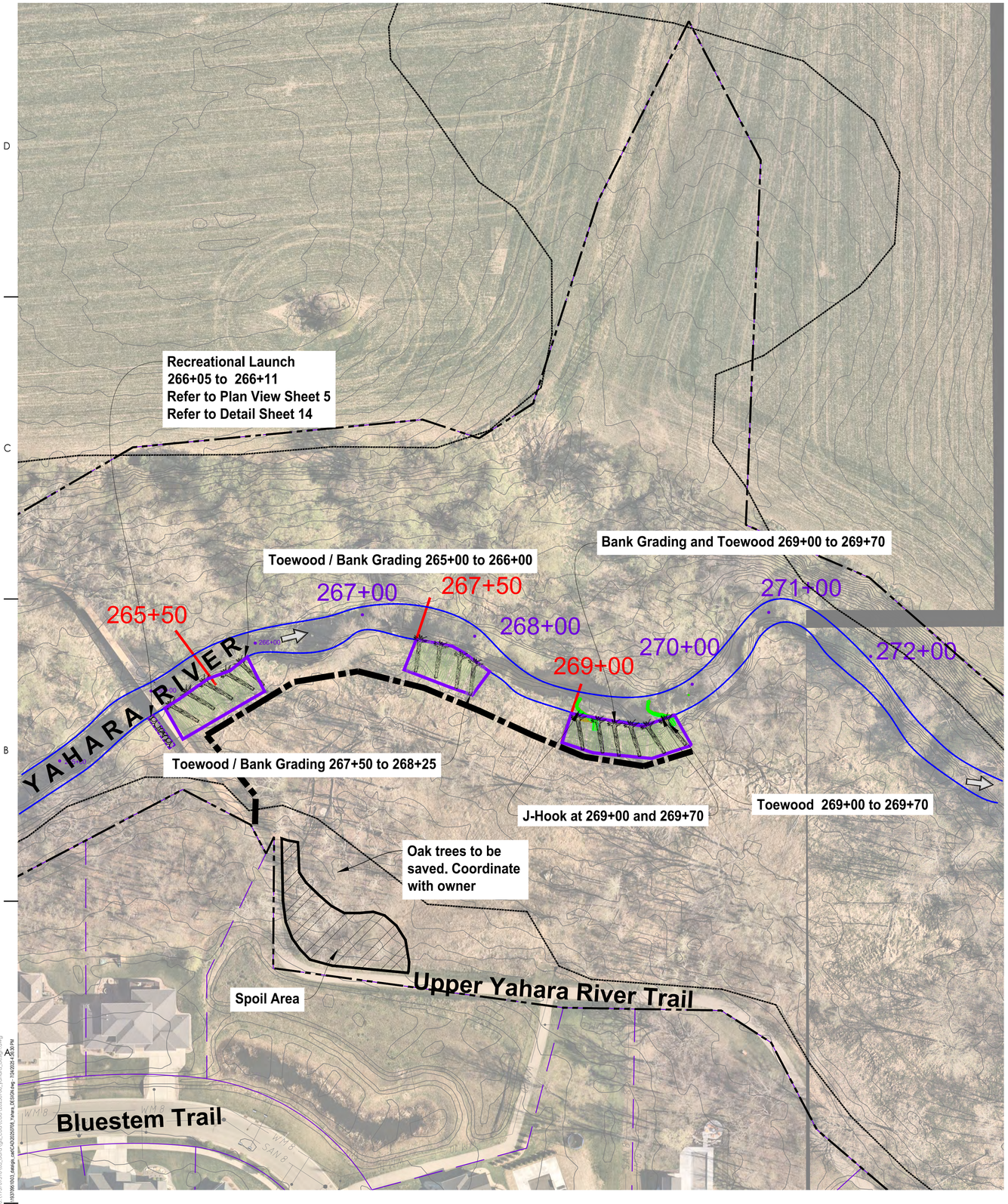
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Title
SOUTH STREET TO RIVER ROAD NORTH

Revision: Sheet: of

Drawing No.
7

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ORIGINAL SHEET - ANSI D



SITE MAP

SCALE: 1" = 50'

0 25 50

N

LEGEND

- YAHARA RIVER
- PARCEL BOUNDARY
- DIRECTION OF FLOW
- EXISTING GRADE
- SANITARY SEWER LINE
- STORMWATER LINE
- WATER MAIN
- WATER VALVE
- STORMWATER CURB INLET
- STORMWATER MANHOLE
- COMBINED SEWER MANHOLE
- WATER HYDRANT
- SANITARY MANHOLE
- NATIONAL WETLAND INVENTORY
- PROPOSED TOEWOOD
- BANK GRADING
- J-HOOK
- PROPOSED ACCESS ROUTE
- SPOIL AREA
- KAYAK LAUNCH
- VILLAGE OF DEFOREST PROPERTY LINE

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Client/Project
YAHARA_RIVER_DEFOREST
DANE_COUNTY_WISCONSIN

Project No.: 193709510

File Name: 20250708_YAHARA_DESIGN

Scale:

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Dwn.	Dsgn.	Chkd. YYYY.MM.DD

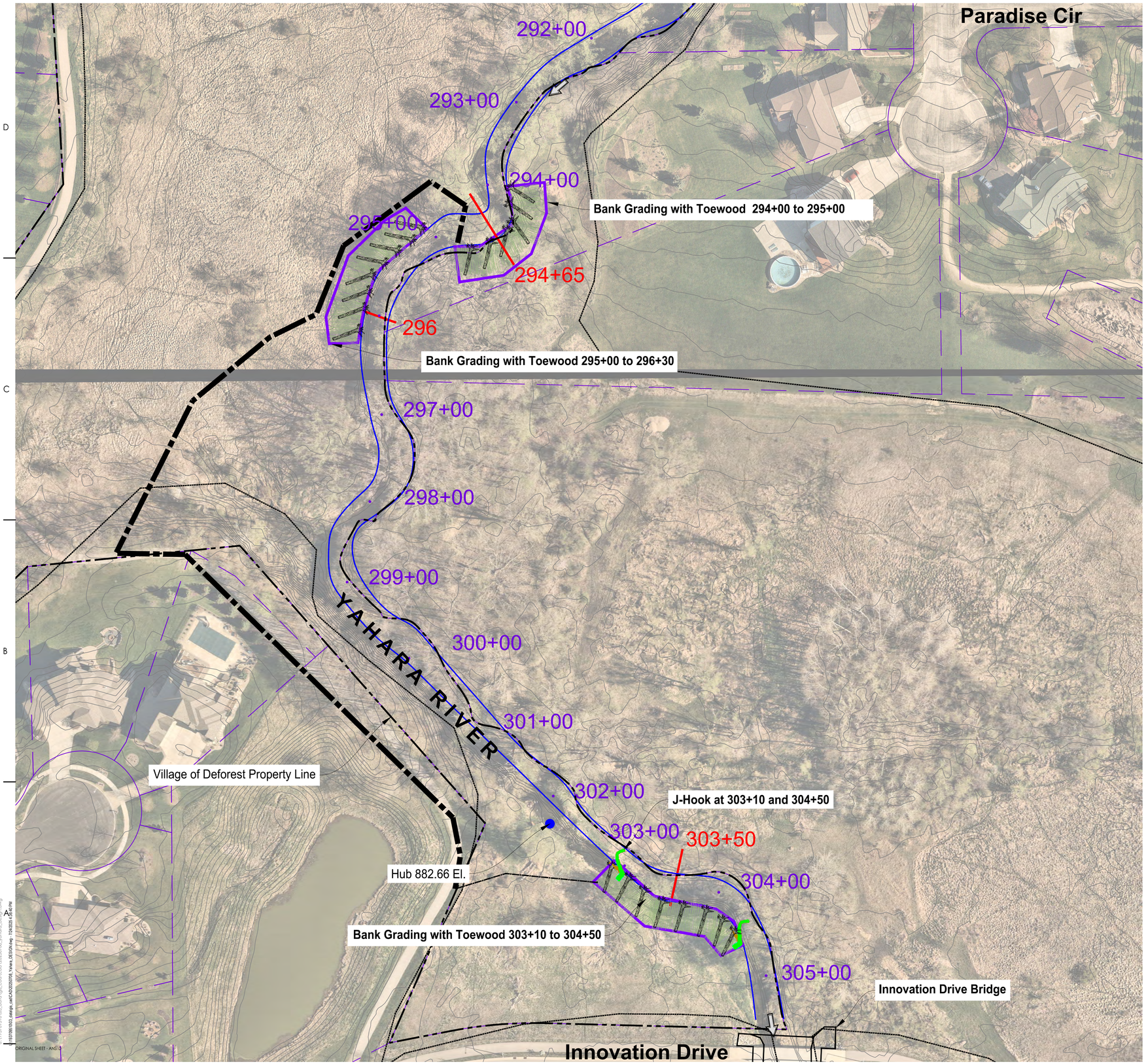
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YAHARA RIVER TRAIL TO INNOVATION DRIVE

Revision: Sheet: of

Drawing No.
8

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ORIGINAL SHEET - ANSI D



SITE MAP
SCALE: 1" = 50'
0 25 50

N

LEGEND

- YAHARA RIVER
- PARCEL BOUNDARY
- DIRECTION OF FLOW
- EXISTING GRADE
- SANITARY SEWER LINE
- STORMWATER LINE
- WATER MAIN
- WATER VALVE
- STORMWATER CURB INLET
- STORMWATER MANHOLE
- COMBINED SEWER MANHOLE
- WATER HYDRANT
- SANITARY MANHOLE
- NATIONAL WETLAND INVENTORY
- PROPOSED TOEWOOD
- BANK GRADING
- J-HOOK
- PROPOSED ACCESS ROUTE
- VILLAGE OF DEFOREST PROPERTY LINE

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No.	Issued	By	Appd	YYYY.MM.DD
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Permit/Seal

Client/Project
YAHARA_RIVER_DEFOREST
DANE_COUNTY_WISCONSIN

Project No.: 193709510
File Name: 20250708_YAHARA_DESIGN

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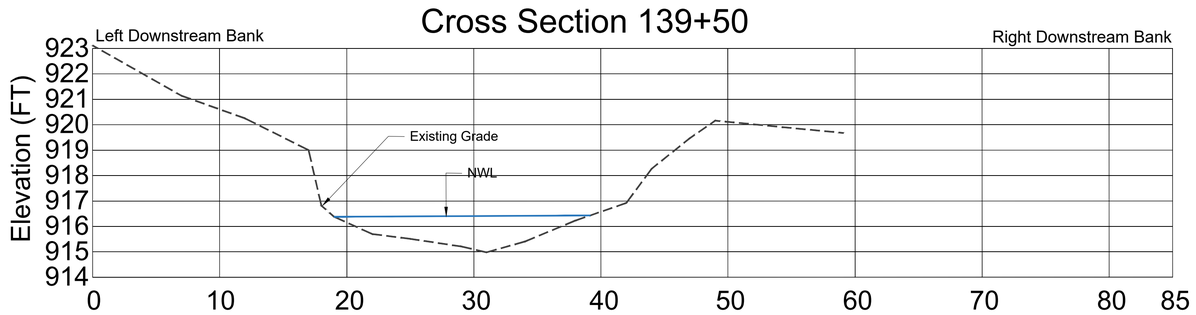
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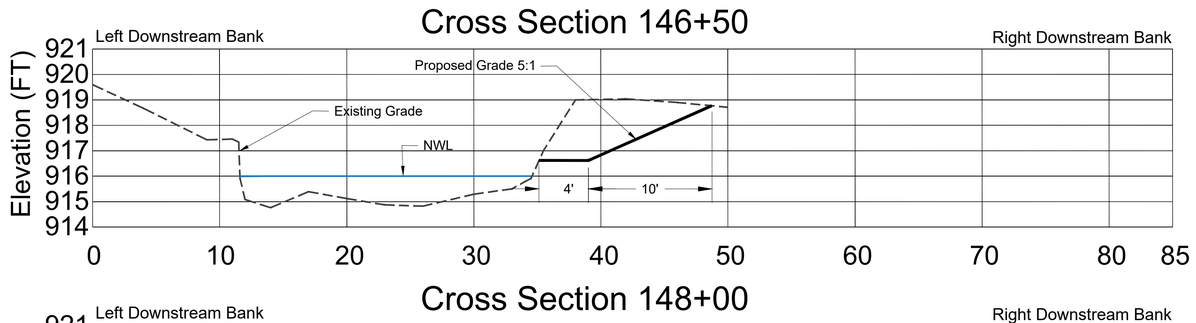
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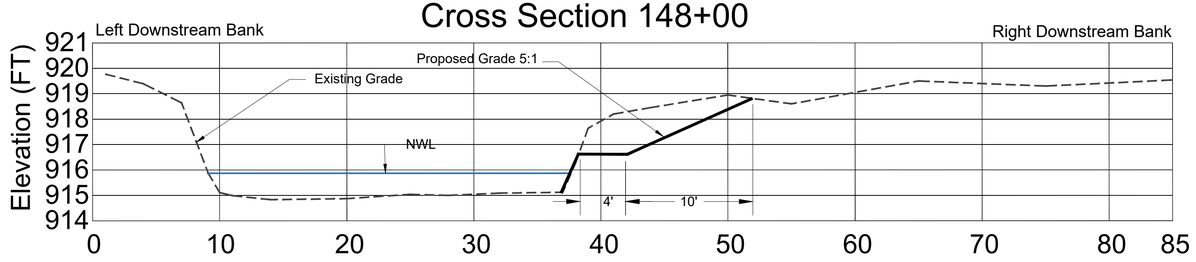
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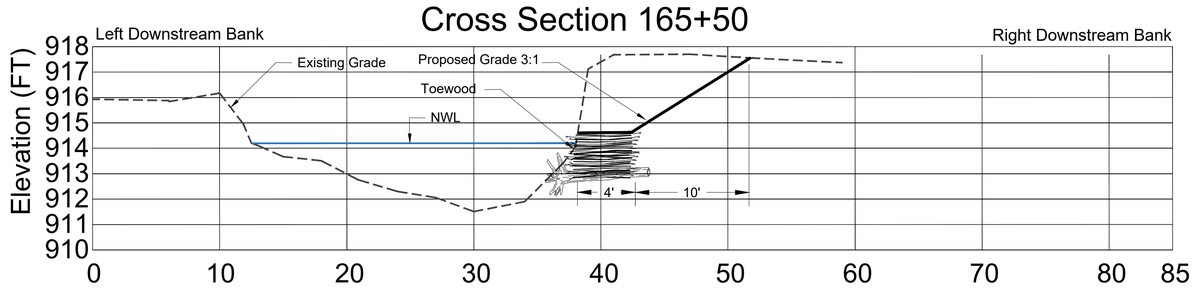
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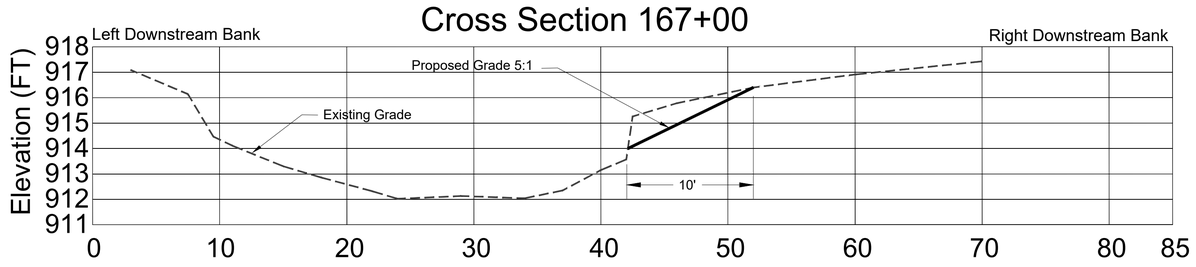
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ORIGINAL SHEET - ANSI D











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Client/Project
YAHARA_RIVER_DEFOREST
DANE_COUNTY_WISCONSIN

Project No.: 193709510
File Name: 20250708_YAHARA_DESIGN

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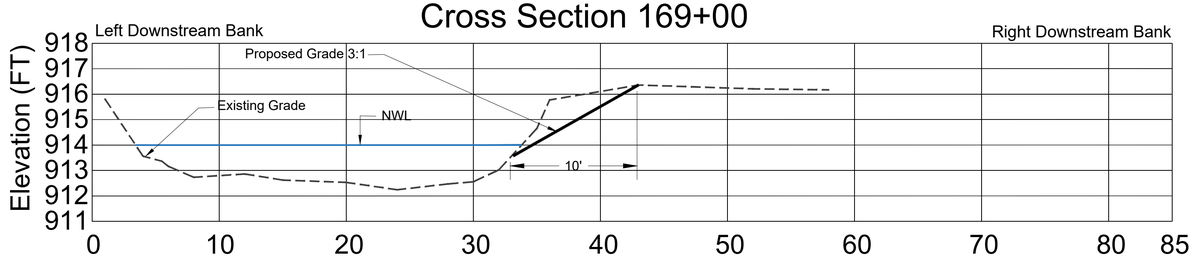
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Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

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CROSS_SECTIONS

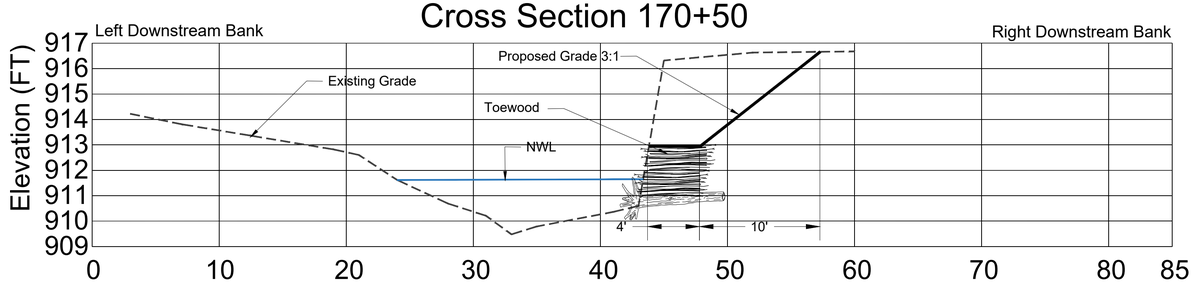
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Drawing No.
10

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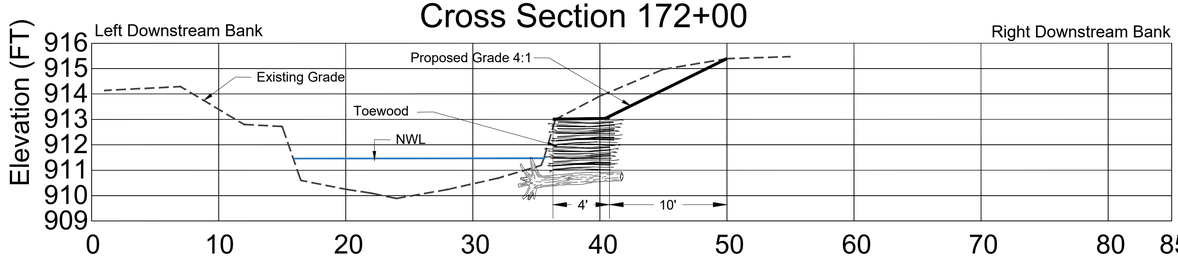
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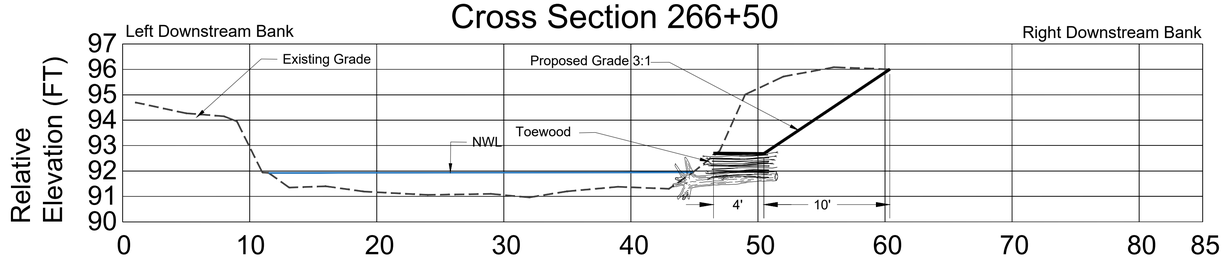
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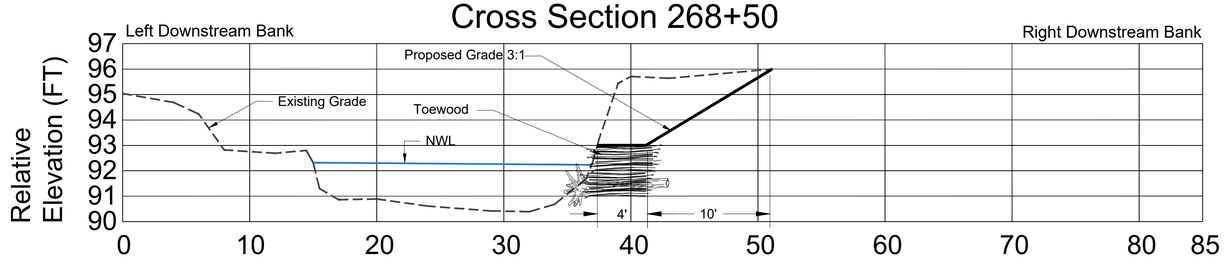
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Cross Section 268+50



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Client/Project
YAHARA_RIVER_DEFOREST
DANE_COUNTY_WISCONSIN

Project No.: 193709510
File Name: 20250708_YAHARA_DESIGN

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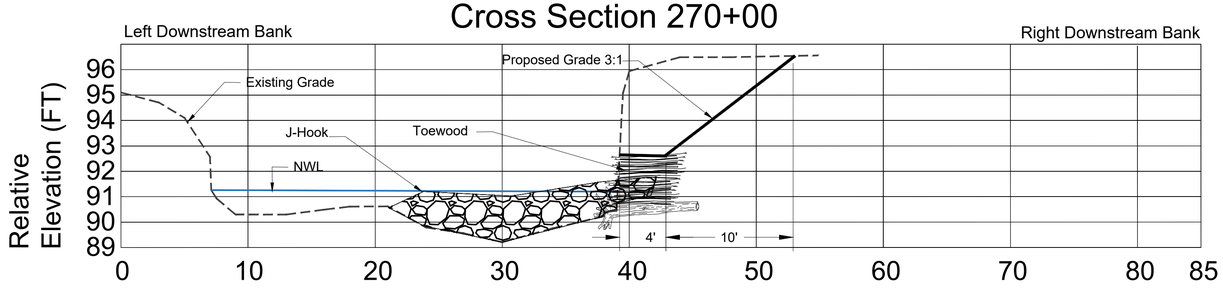
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Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

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CROSS_SECTIONS

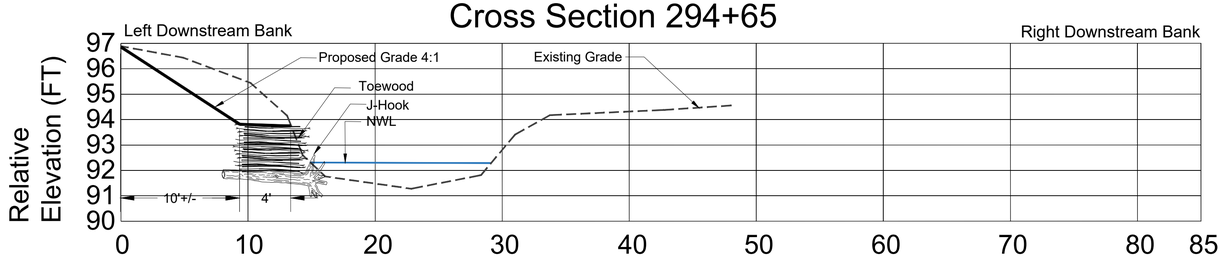
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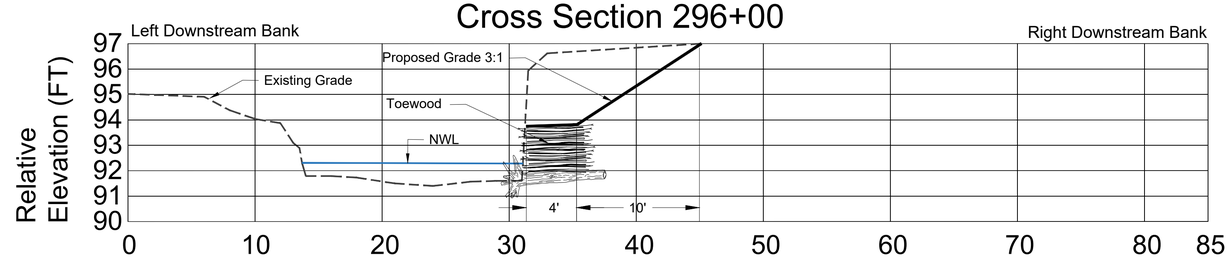
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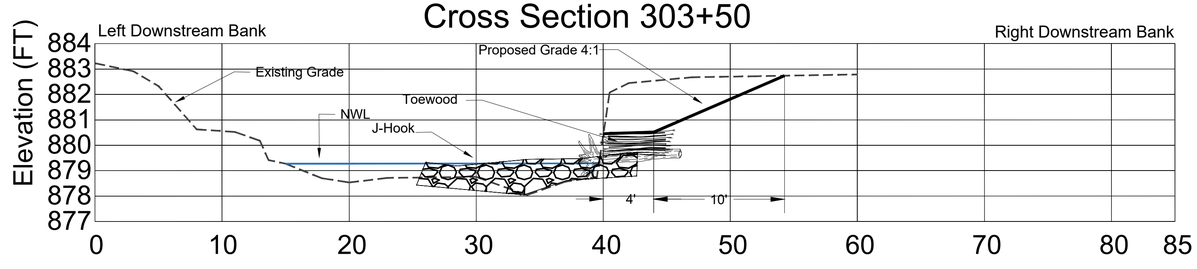
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Cross Section 296+00



Cross Section 303+50



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Client/Project
YAHARA_RIVER_DEFOREST
DANE_COUNTY_WISCONSIN

Project No.: 193709510
File Name: 20250708_YAHARA_DESIGN

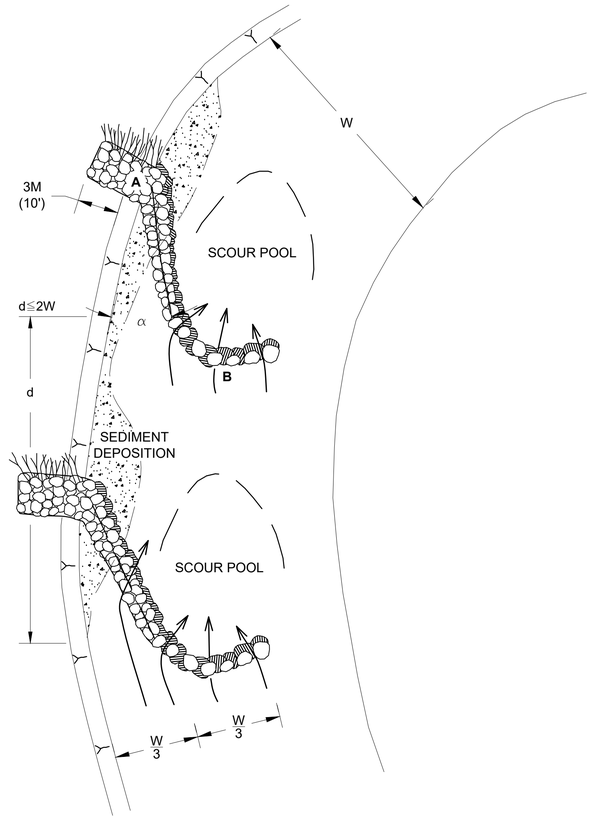
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Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

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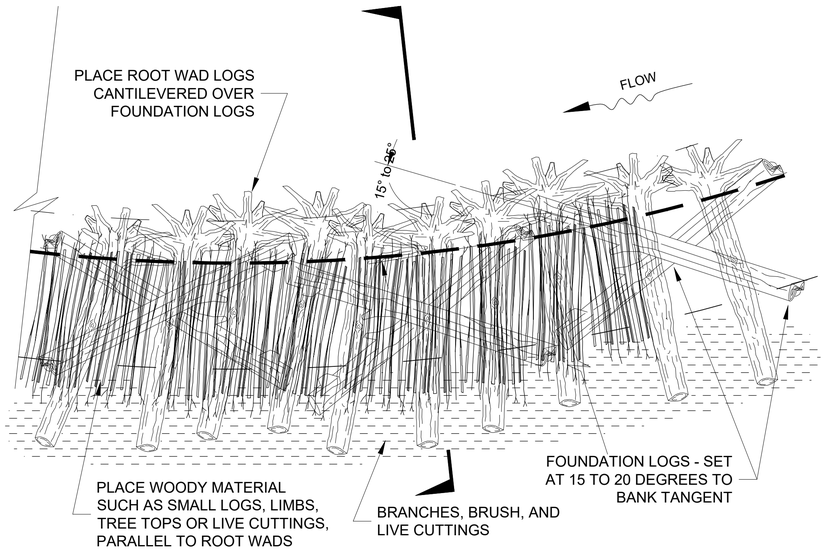


1 **J-HOOK VANE DETAIL**
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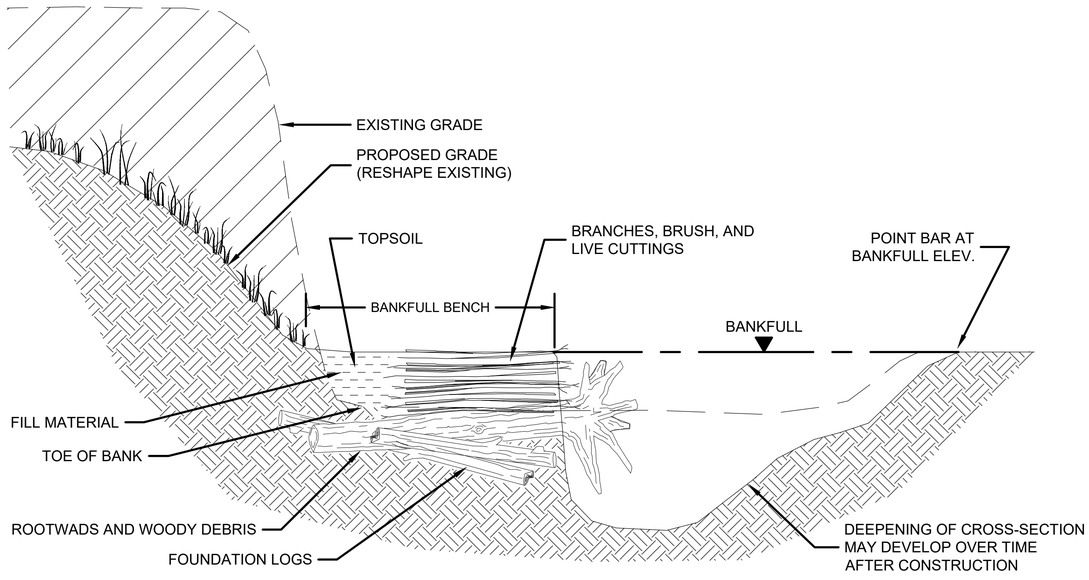
J-HOOK VANE NOTES:

1. J-hook vane/stream barb structures shall be installed at periods of near or at low flow. Installation will not occur during or immediately following periods of heavy precipitation.
2. J-hook structures will be keyed (A) into the stream banks or installed stone revetment at specified locations.
3. A footer trench shall be excavated within the streambed to a minimum depth equal to the D100 stone diameter below the calculated maximum scour depth.
4. Unless specified otherwise, the central crest (B) of the J-hook structure will protrude upstream into the channel at an angle approximately equal to 25 degrees from the bank tangent point at the specified location.
5. Unless specified otherwise, stream barbs will be keyed into the stream bank at a height equal to the bankfull elevation as determined by pre-project surveys and decrease in elevation along the J-hook/barb crest at a slope of approximately 5-7%.
6. Structures will be installed under supervision of Project designer.
7. Any modifications or amendments to construction plans will be approved by the Project Designer.
8. Refer to specification section 35 43 80 for stone sizes.

W = Width of waterway
d ≤2W



PLAN



SECTION

NOTES:
1. REGRADE ERODED BANK, AND CREATE A BANKFULL BENCH.
2. BANKFULL BENCH CONSISTS OF A BOTTOM LAYER OF FOUNDATION LOGS WITH ROOT WADS PLACED ON TOP TO CREATE HABITAT, THEN A LAYER OF WOODY MATERIAL SUCH AS LOGS, BRANCHES, BRUSH AND LIVE CUTTINGS.
3. COVER BENCH WITH FILL MATERIAL TO BANKFULL ELEVATION.
4. STABILIZE BANK WITH EROSION CONTROL BLANKET AND SEEDING.

2 **TOEWOOD DETAIL**
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Client/Project
YAHARA_RIVER_DEFOREST
DANE_COUNTY_WISCONSIN

Project No.: 193709510
File Name: 20250708_YAHARA_DESIGN

Scale:

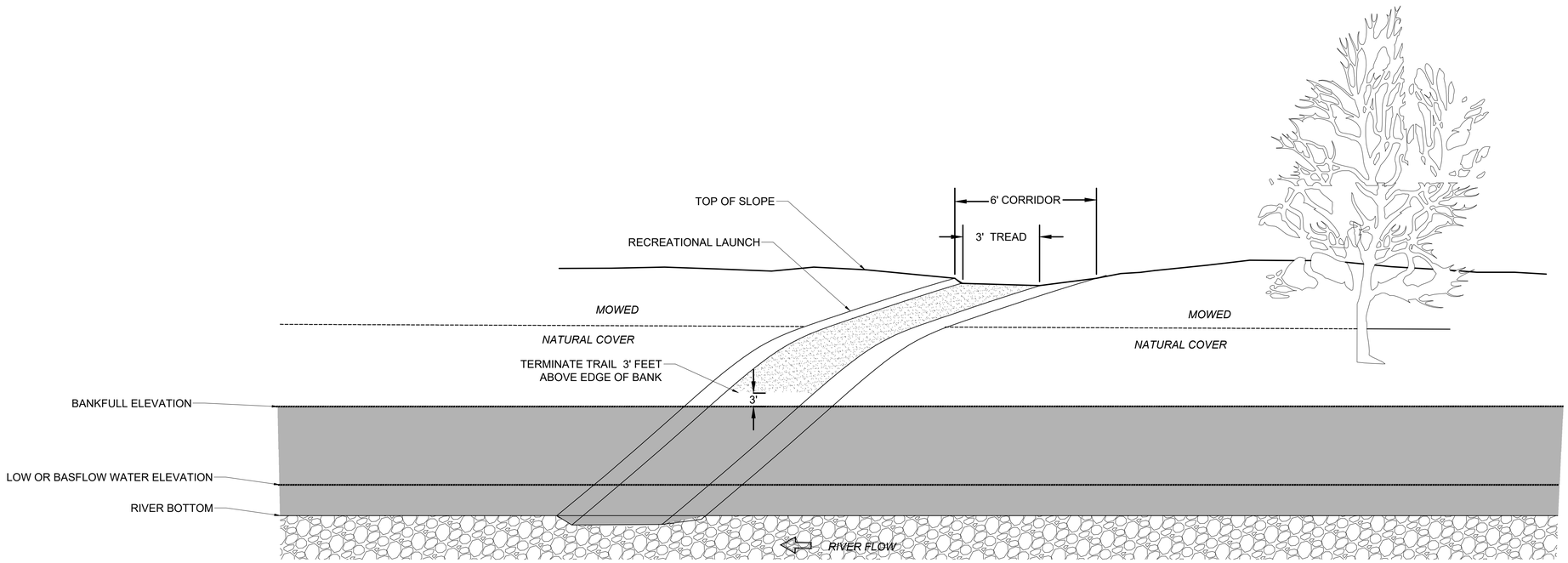
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DETAILS

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Drawing No.
13

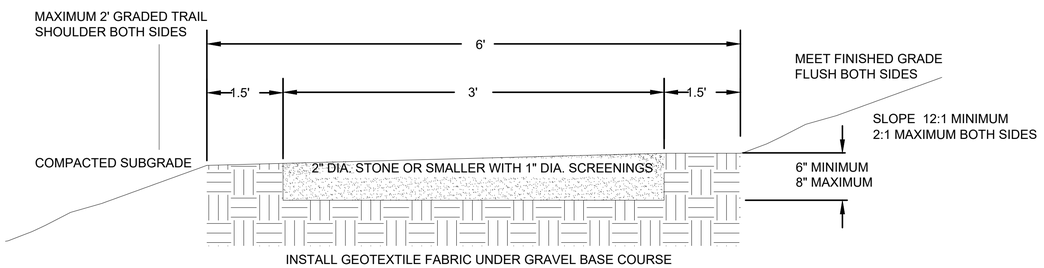
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NOTES:

1. Launch and trail surface shall be crushed gravel at or above bankfull elevation.
2. Crushed gravel shall conform to section 35 45 10.
3. Trail base depth shall be no less than 6 inches and no more than 8 inches.
4. Final trail grade shall be consistent with surrounding ground surface.



3 **RECREATIONAL LAUNCH DETAIL**
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DANE_COUNTY_WISCONSIN

Project No.: 193709510
File Name: 20250708_YAHARA_DESIGN

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Base Bid	Item Description	Unit	Quantity
1	Mobilization	LS	1
2	Timber Matting	SY	4,800
3	Excavation	CY	1,800
4	Erosion Control Blanket	SY	7,590
5	Trail Replacement	LF	2,300
6	Toe Wood (Owner Supplied Material)	LF	1,050
7	J-Hook	EA	4
8	Recreational Launch	EA	3
9	Seeding in Bank Stabilization Areas	ACRE	1.41
10	Seeding in Wetland Areas	ACRE	1.00
11	Seeding in Upland Areas	ACRE	0.32

Alternate Bid			
1	Toe Wood (Contractor Supplied Material)	LF	300

4 **MATERIAL TABLE**

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YAHARA_RIVER_DEFOREST

DANE_COUNTY_WISCONSIN

Project No.: 193709510

File Name: 20250708_YAHARA_DESIGN

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Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Title

MATERIALS

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15

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