



Project Information Package

CTH K, Branch Otter Creek Bridge

Eau Claire County

Project ID: 7375-00-01

Project Overview

Eau Claire County, in cooperation with the Wisconsin Department of Transportation, is proposing to improve the existing structure on County Trunk Highway (CTH) K over a branch of Otter Creek in the Town of Otter Creek. This bridge replacement project is located approximately 0.4 mile north of CTH HH (see attached project location map).

This information package is intended to provide you with information about the project, so you can provide feedback to the project team in the form of questions, concerns, or comments. Please email your comments to jshavlik@sehinc.com or fill out the attached comment sheet and send it to:

SEH, Attn: Justin Shavlik, 10 N Bridge Street, Chippewa Falls, WI 54729.

The project team will review and address all responses and utilize this information in the final design of the bridge improvements.

Project Information

The existing structure consists of two 84-inch diameter corrugated steel culvert pipes that were installed in 1981 and has reached the end of its useful life. The most recent bridge inspection indicated that the culverts have significant section loss at the waterline and need replacement.

Eau Claire County and WisDOT are proposing to replace the existing deficient structure with a new structure, a single-span reinforced concrete flat-slab bridge. The bridge would have a 28-foot clear roadway width and an overall length of 37-feet.

While current standards, require a 26-foot minimum clear width, a 28' clear width is proposed to match the existing approaching roadway width to provide safer travel across the bridge. The new structure would be constructed closely to the existing horizontal alignment and the existing vertical alignment would be altered slightly. Approximately 150 feet of roadway approaches would be reconstructed consisting of two 11-foot asphaltic surface lanes with 3-foot gravel shoulders. Minimal grading would be required to complete the project.



The proposed improvements may impact some wetlands adjacent to the project. A wetland determination and detailed mitigation plan to compensate for any wetland impacts will be completed as needed this summer. No archaeological or historical resources are anticipated to be impacted by the project. The environmental process for the proposed project is anticipated to be completed by the end of 2024.



Proposed Traffic Impacts

Construction is scheduled to occur during the 2026 construction season. The road will be closed for the duration of construction. Alternative routes are available, and no signed detour will be utilized.



Real Estate

Additional right of way is not anticipated, but may be needed, to be acquired by Eau Claire County to facilitate the construction of the proposed bridge.

Project Schedule

No additional public involvement is currently scheduled for this project.

Deliverables	Date
Environmental Document	Fall 2024
Design Study Report	February 1, 2025
Final Plans	August 1, 2025
Project Construction	Summer 2026

Note: Schedule has the potential to change.

This presentation is for the project ID 7375-00-01 on County K over a Branch of Otter Creek in the town of Otter Creek, Eau Claire County, Wisconsin. This project is located approximately 2,160 feet North of County HH.

An in-person meeting is not planned at this time.

All meeting materials, including the handout with a comment form, are posted on the design website for this project, which can be found at: <https://www.eauclairecounty.gov/our-government/departments-and-facilities/departments-directory/highway/construction-improvement-projects/-fsiteid-1>

If you have any questions, please contact Eau Claire County Project Manager, Travis Pickering at (715) 975-0023 or SEH design Project Manager, Justin Shavlik at (715) 720-6279.





Public Involvement

Branch of Otter Creek Bridge Replacement Project

County K

Town of Otter Creek, Eau Claire County

Public Comment Period: August 19, 2024 to September 2, 2024

Project Team

- Eau Claire County Highway Department
 - Travis Pickering, P.E. – Project Manager
- SEH
 - Justin Shavlik, P.E. – Design Consultant Project Manager
- WisDOT Northwest Region
 - Todd Becker, P.E. – Local Program Project Coordinator





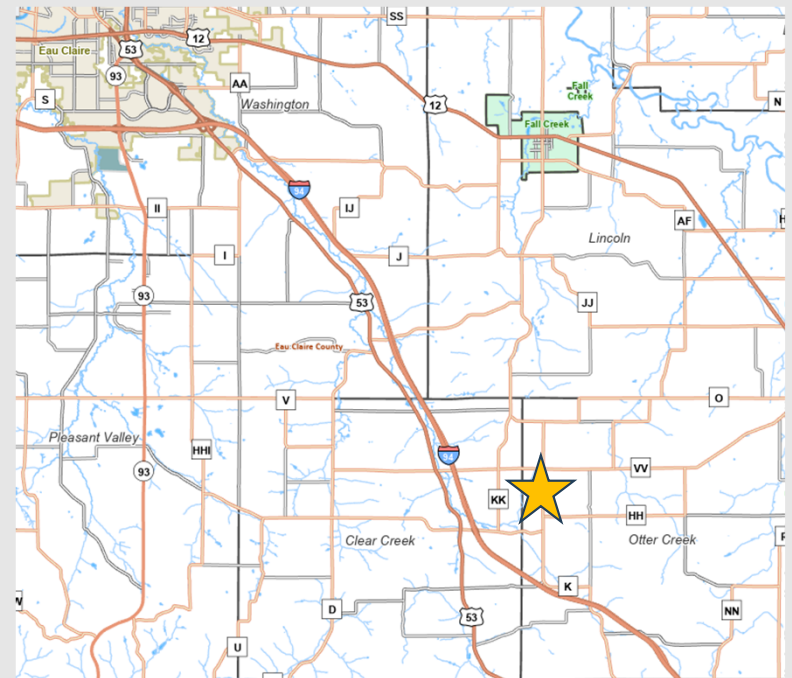
Event Objectives

- Project Limits and Definition
- Project Purpose and Need
- Proposed Improvements
- Real estate needs
- Construction Impacts
- Project Schedule
- Contact Information
- Questions and Input



Project Limits and Definition

- Project ID 7375-00-01 (71) (Star)
 - Bridge Replacement Project
 - Project is located approximately 200 ft South of Erdman Road on the bridge carrying County K over a branch of Otter Creek



Project Purpose and Need

- Proposed improvements on the bridge would address:
 - Structural deficiencies of the existing twin culverts
 - Weight limit posting at crossing (currently posted at 20 tons)



County K Proposed Improvements

- Proposed improvements would include:
 - Replacement of structure
 - Concrete flat slab bridge (Single span)
 - Existing alignment/profile
 - Approximately 150-ft of roadway approach work will be completed
- “Replacement” best addresses the project needs.
- Real estate acquisition is not anticipated



Construction Impacts

- County K for the duration of the project (2-3 months):
 - Would be closed to thru traffic
 - Would not have a posted detour due to availability of local alternatives
 - Existing access points to adjacent properties would be maintained



Project Schedule

- Final design plan completion
 - August 2025
- Construction
 - Summer 2026 construction season
 - Work is anticipated to take approximately 45 working days (2-3 months) to complete



Project Team Contact Information

- Travis Pickering, Eau Claire County Highway Department
 - (715) 975-0023 or Travis.Pickering@eauclairecounty.gov
- Justin Shavlik, SEH
 - (715) 720-6279 or jshavlik@sehinc.com
- Todd Becker, WisDOT Local Program Project Coordinator
 - (414) 935-4359 or todd.becker@daarcorp.com



Questions and Input

- Submit by September 2, 2024 by:
 - Email or phone to project contacts
 - Mail to:
 - SEH
 - 10 N Bridge St
 - Chippewa Falls, WI 54729
 - Attn.: Justin Shavlik
 - Via email
 - jshavlik@sehinc.com

Public Involvement Meeting Comment Form

Project ID 7375-00-01/71
Foster – Fall Creek
Branch Otter Creek Bridge B-18-0067
CTH K
Eau Claire County

Please place this form in the comment box or email to SEH Project Manager, Justin Shavlik, at jshavlik@sehinc.com by July 31, 2024. Your comments assist us in developing a project that will serve the needs of the traveling public as well as the needs of the local community. Your input is welcome and appreciated throughout the design process.

Name: _____

Address: _____

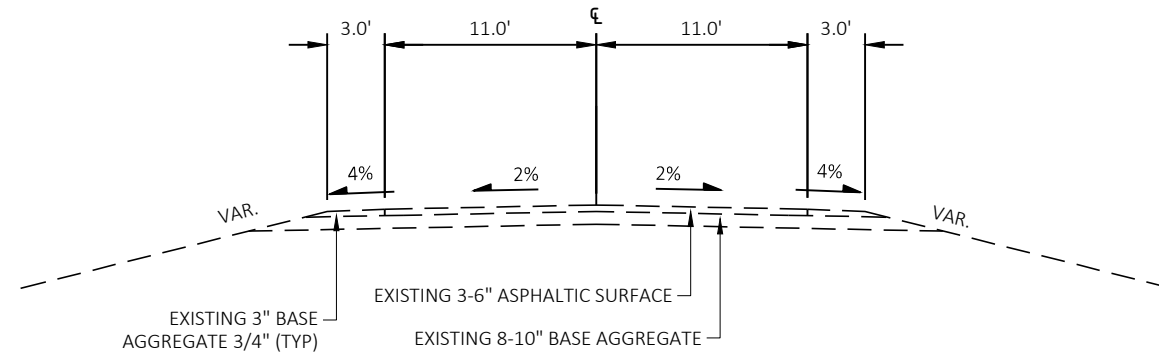
Daytime Phone Number (optional): _____

Email Address (optional): _____

Please Print Comments (attach additional sheets if necessary)

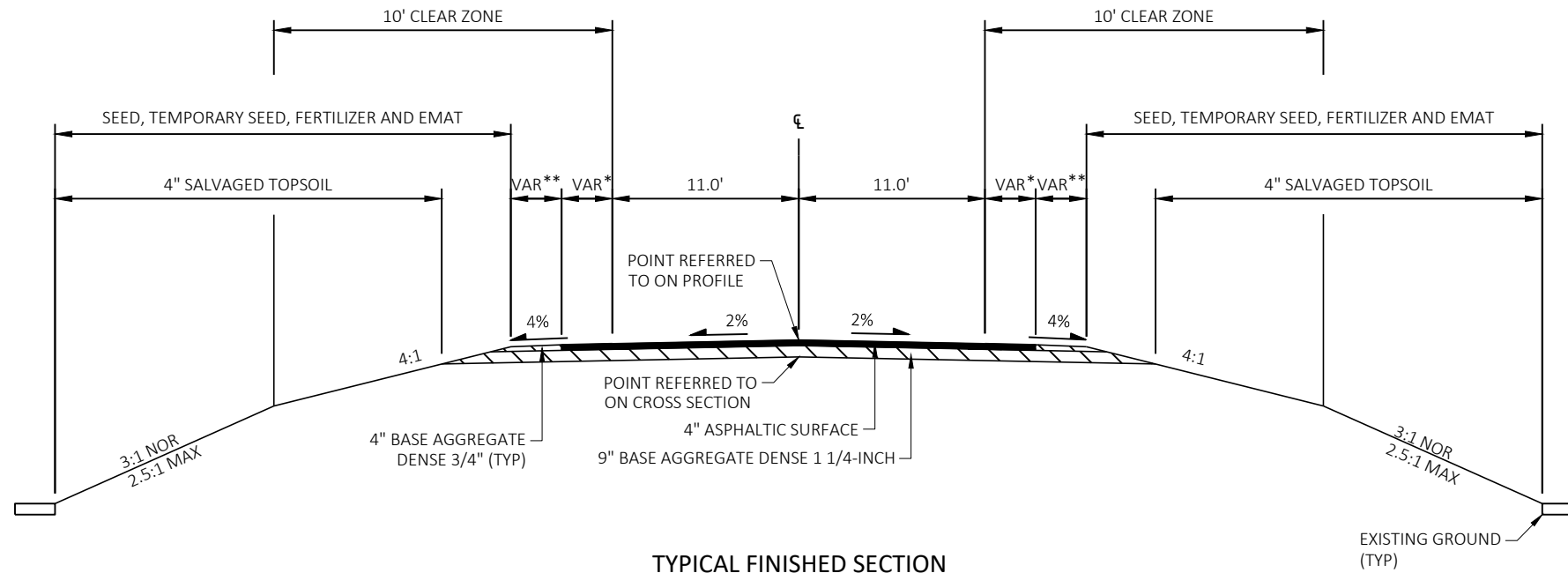
The information in this document including names, addresses, phone numbers, e-mail addresses, and signatures is not confidential, and may be subject to disclosure upon request, pursuant to the requirements of the Wisconsin open records law, sections 19.31 - 19.39 of the Wisconsin Statutes.





TYPICAL EXISTING SECTION
STA 9+10 TO 10+90

BORING LOG			
NO.	STA	OFFSET	EXISTING MATERIAL
B-1	9+85	6' LT	3" ASPHALT OVER 5" BASE
B-2	10+15	6' RT	3" ASPHALT OVER 5" BASE OVER 3" ASPHALT OVER 5" BASE



TYPICAL FINISHED SECTION
STA 9+10 TO 9+XX
STA 10+XX TO 10+90

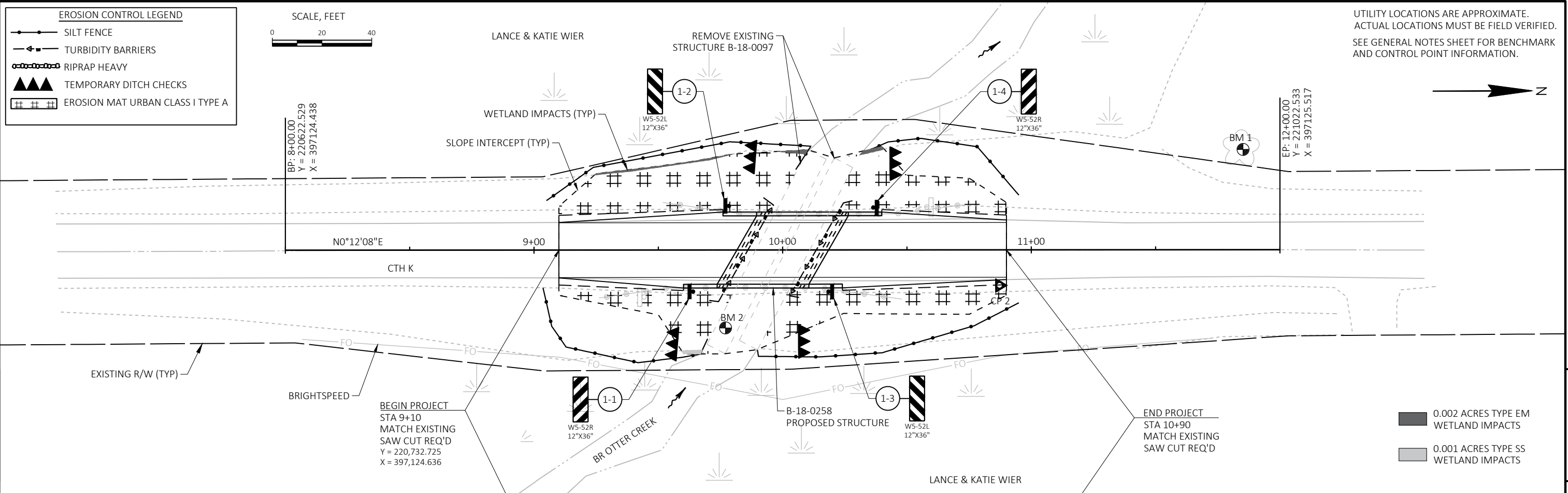
*PAVED SHOULDER WIDTH TAPERS FROM 0' AT PROJECT LIMITS TO 1.5' AT END OF BRIDGE WING WALLS.
**UNPAVED SHOULDER WIDTH TAPERS FROM 3' AT PROJECT LIMITS TO 1' AT END OF BRIDGE WING WALLS.

EROSION CONTROL LEGEND

- SILT FENCE
- TURBIDITY BARRIERS
- RIPRAP HEAVY
- TEMPORARY DITCH CHECKS
- EROSION MAT URBAN CLASS I TYPE A



UTILITY LOCATIONS ARE APPROXIMATE.
ACTUAL LOCATIONS MUST BE FIELD VERIFIED.
SEE GENERAL NOTES SHEET FOR BENCHMARK
AND CONTROL POINT INFORMATION.

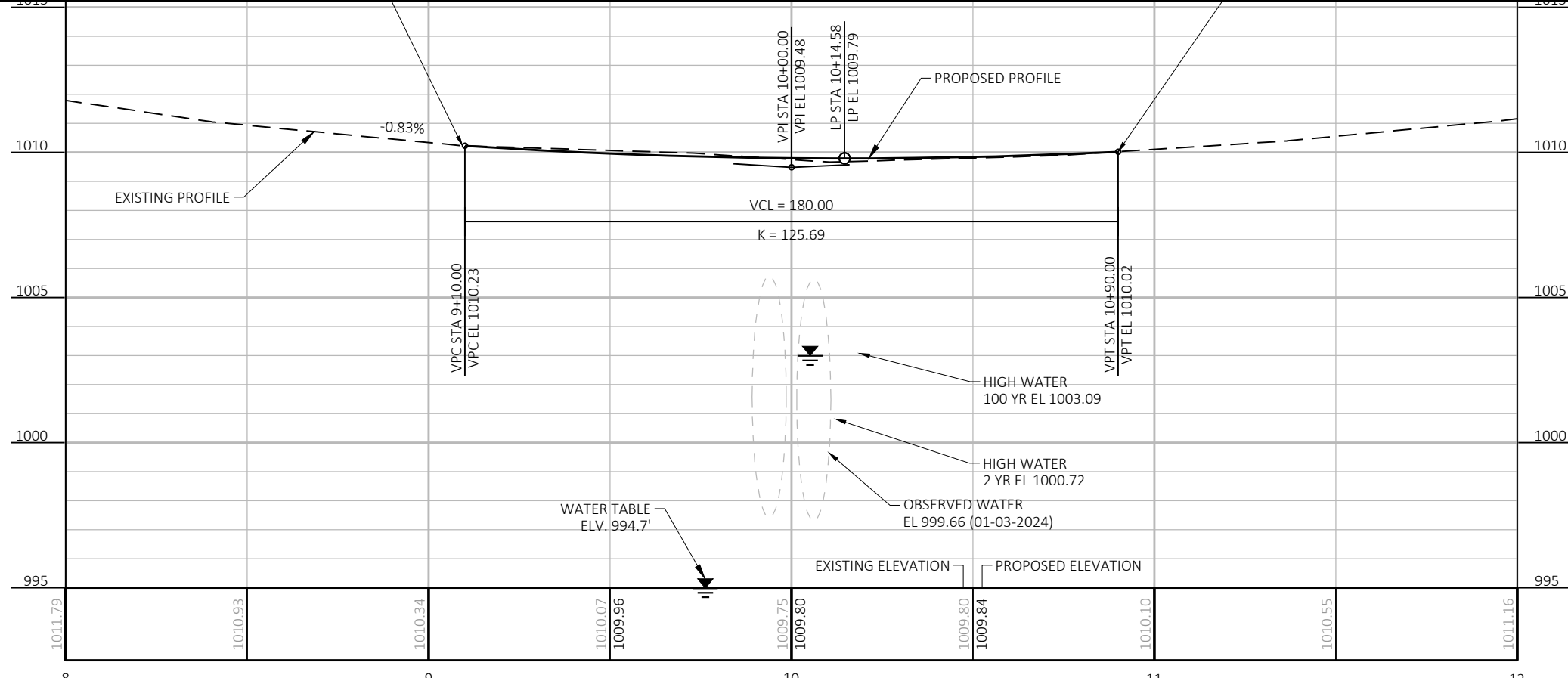


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EARTHWORK SUMMARY

STA 9+10 TO STA 9+81	
CUT	XX CY
FILL	XX CY
FILL AR 1.25 EXP	XX CY
BORROW	XX CY



EARTHWORK SUMMARY

STA 10+18 TO STA 10+90	
CUT	XX CY
FILL	XX CY
FILL AR 1.25 EXP	XX CY
BORROW	XX CY

STA 10+00
STRUCTURE B-18-0258 REQ'D
PROPOSED SINGLE-SPAN
REINFORCED CONCRETE SLAB
36.9' OVERALL LENGTH
28.0' CLEAR ROADWAY WIDTH

STA 10+00
REMOVE STRUCTURE B-18-0097 REQ'D
2-84" CMCP CULVERT PIPES
88.0' OVERALL LENGTH

PROJECT NO: 7375-00-71	HWY: CTH K	COUNTY: EAU CLAIRE	PLAN AND PROFILE: CTH K	SHEET	E
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DESIGN DATA

LIVE LOAD:

DESIGN LOADING: HL-93
 INVENTORY RATING FACTOR: RF =
 OPERATING RATING FACTOR: RF =
 WISCONSIN STANDARD PERMIT VEHICLE (WIS.-SPV): 250 (KIPS)

STRUCTURE IS DESIGNED FOR A FUTURE WEARING SURFACE OF 20 POUNDS PER SQUARE FOOT.

MATERIAL PROPERTIES:

CONCRETE MASONRY: _____ f'c = 4,000 P.S.I.
 SUPERSTRUCTURE _____ f'c = 3,500 P.S.I.
 ALL OTHER _____
 BAR STEEL REINFORCEMENT: _____ fy = 60,000 P.S.I.
 GRADE 60

FOUNDATION DATA

ABUTMENTS TO BE SUPPORTED ON HP 10 x 42 PILING DRIVEN TO A REQUIRED DRIVING RESISTANCE OF 180 TONS ++ PER PILE AS DETERMINED BY THE MODIFIED GATES DYNAMIC FORMULA. ESTIMATED 60 FEET LONG AT SOUTH ABUTMENT. ESTIMATED 65 FEET LONG AT NORTH ABUTMENT.

++ THE FACTORED AXIAL RESISTANCE OF PILES IN COMPRESSION USED FOR DESIGN IS THE REQUIRED DRIVING RESISTANCE MULTIPLIED BY A RESISTANCE FACTOR OF 0.5 USING MODIFIED GATES TO DETERMINE DRIVEN PILE CAPACITY.

TRAFFIC VOLUME

FEATURE ON CTH K
 ADT = 270 (2026)
 ADT = 290 (2046)
 R.D.S. = 40 M.P.H.

HYDRAULIC DATA

100 YEAR FREQUENCY
 Q₁₀₀ = 375 C.F.S.
 VEL. = 7.08 F.P.S.
 HW₁₀₀ = EL. 1003.09
 WATERWAY AREA = 216 SQ. FT.
 DRAINAGE AREA = 1.47 SQ. MI.
 SCOUR CRITICAL CODE = 5 NA

2 YEAR FREQUENCY

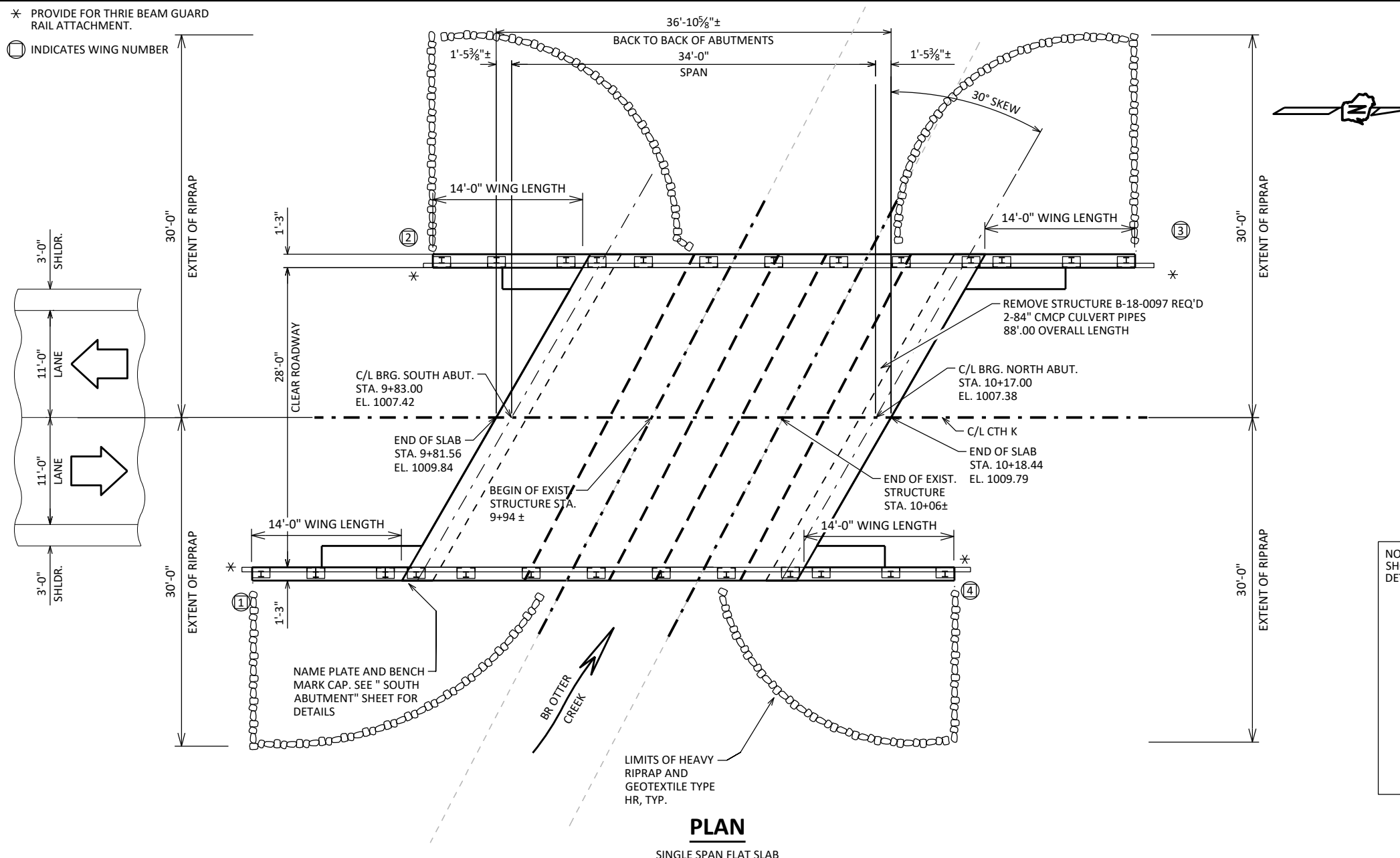
Q₂ = 70 C.F.S.
 VEL. = 2.65 F.P.S.
 HW₂ = 1000.72 EL.

LIST OF DRAWINGS

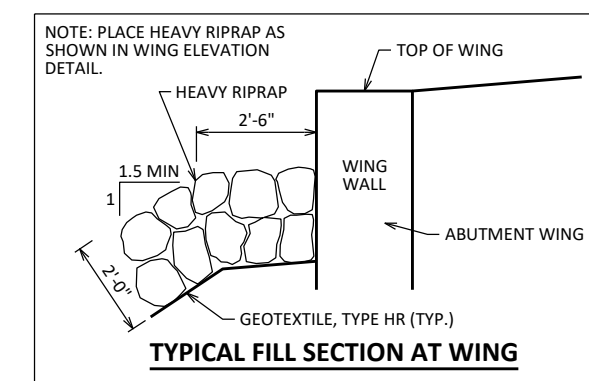
1. GENERAL PLAN
2. CROSS SECTION & QUANTITIES
3. SUBSURFACE EXPLORATION

* PROVIDE FOR THRIE BEAM GUARD RAIL ATTACHMENT.

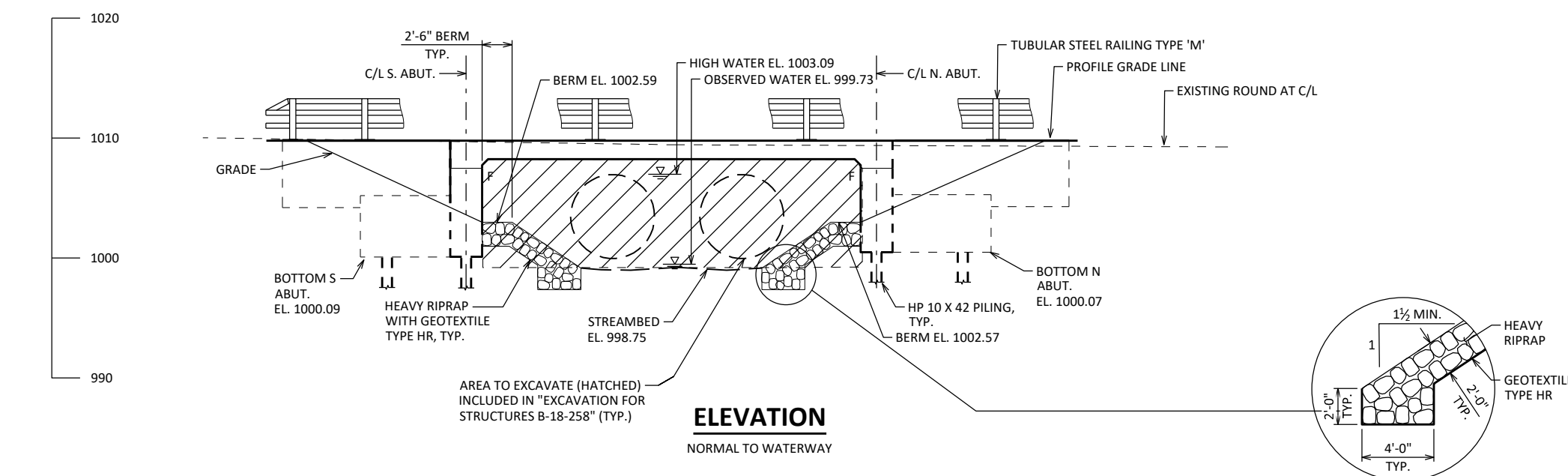
⊙ INDICATES WING NUMBER



PLAN
 SINGLE SPAN FLAT SLAB



TYPICAL FILL SECTION AT WING



ELEVATION
 NORMAL TO WATERWAY

STRUCTURE DESIGN CONTACTS:

DAVIS WING 715-720-6252
 AARON BONK 608-261-0261

THESE PLANS ARE BASED UPON STANDARD BRIDGE PLANS DEVELOPED AND MAINTAINED BY THE WISCONSIN DEPARTMENT OF TRANSPORTATION THROUGH THE USE OF THE WISDOT STANDARD BRIDGE DESIGN TOOL. THE UNDERSIGNED DESIGNER CERTIFIES THE ACCURACY OF THE BRIDGE TYPE, SIZE AND LOCATION, HYDRAULICS AND FOUNDATION SUPPORT, AND INFORMATION IN THE PLANS THAT IS NOT PART OF THE STANDARD PLANS SUPPLIED BY THE DEPARTMENT. THE DESIGNER FURTHER CERTIFIES THAT USE OF THE STANDARD BRIDGE DESIGN TOOL FOR DEVELOPMENT OF THIS PLAN IS CONSISTENT WITH THE GUIDANCE PROVIDED IN THE WISDOT BRIDGE MANUAL.

NO.	DATE	REVISION	BY
 SHORT ELLIOTT HENDRICKSON INC.			
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
ACCEPTED _____		DATE _____	
STRUCTURE B-18-0258			
COUNTY	EAU CLAIRE	TOWN/CITY/VILLAGE	OTTER CREEK
DESIGN SPEC. AASHTO LRFD BRIDGE DESIGN SPECIFICATION			
DESIGNED BY	DKW	DESIGNED CK'D	JGM
DRAWN BY	MFH	PLANS CK'D	DKW
GENERAL PLAN			SHEET 1 OF 3

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

BEVEL EXPOSED EDGES OF CONCRETE 3/4" UNLESS OTHERWISE NOTED.

THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES B-18-0258" SHALL BE THE EXISTING GROUNDLINE.

AT THE BACK FACE OF ABUTMENT ALL VOLUME WHICH CANNOT BE PLACED BEFORE ABUTMENT CONSTRUCTION AND IS NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH STRUCTURE BACKFILL TYPE A.

EXCAVATION BELOW THE ABUTMENT AND ABUTMENT BEDDING MATERIALS REQUIRES ENGINEER APPROVAL. GEOTEXTILE SHALL BE SET AT THE BOTTOM OF EXCAVATION AND EXTEND 2'-0" ABOVE BOTTOM OF ABUTMENT.

THE QUANTITY FOR BACKFILL STRUCTURE IS CALCULATED BASED ON THE DETAIL SHOWN IN THE PLANS.

THE SLOPE OF THE FILL IN FRONT OF THE ABUTMENTS SHALL BE COVERED WITH HEAVY RIPRAP AND GEOTEXTILE TYPE HR TO THE EXTENT SHOWN ON SHEET 1 AND THE ABUTMENT DETAILS.

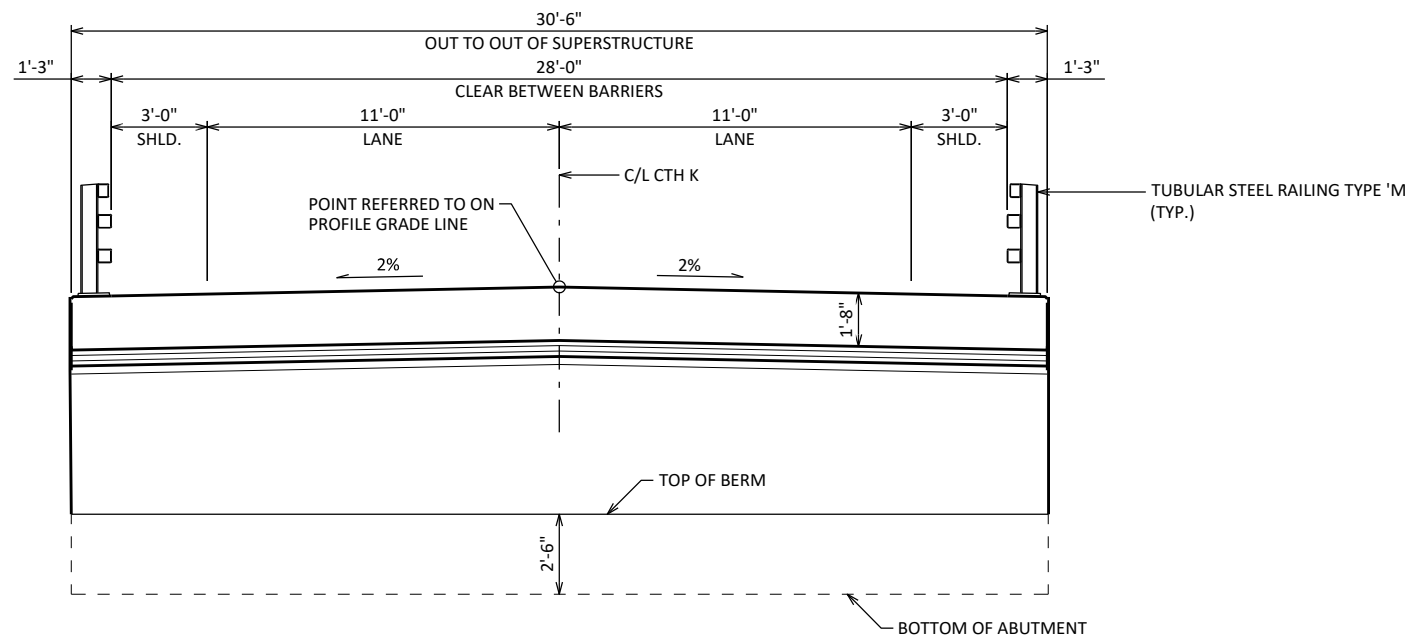
AT ABUTMENTS, CONCRETE POURED UNDER WATER WILL BE ALLOWED AND SHALL BE DONE IN ACCORDANCE WITH SECTION 502.3.5.3 OF THE STANDARD SPECIFICATIONS.

SLAB FALSEWORK SHALL BE SUPPORTED ON PILES OR THE SUBSTRUCTURE UNLESS AN ALTERNATE METHOD IS APPROVED BY THE ENGINEER.

PROTECTIVE SURFACE TREATMENT TO BE APPLIED TO ENTIRE EXPOSED TOP OF SLAB, INCLUDING THE SLAB EDGE AND 1'-0" UNDER THE SLAB, THE TOP AND EXTERIOR EXPOSED FACE OF WINGS AND FRONT FACE OF ABUTMENT TO 1'-0" PAST THE EDGE OF SLAB.

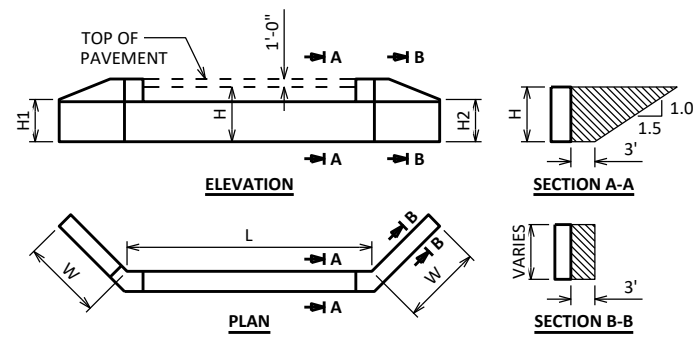
BENCH MARK

NO.	STATION	DESCRIPTION	ELEV.
BM1	11+85.13, 40.33LT	SPIKE IN 12" TREE	1008.453'
BM2	9+77.13, 31.35RT	TOP EYE BOLT ON CULVERT	1005.99'



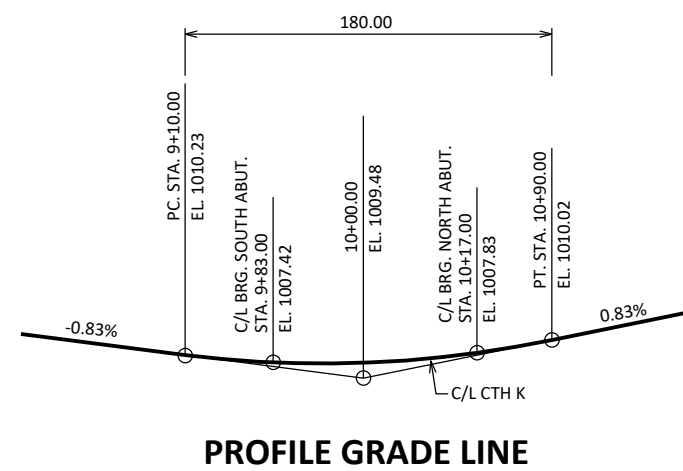
CROSS SECTION THRU ROADWAY

LOOKING UPSTATION
(PILING NOT SHOWN FOR CLARITY)

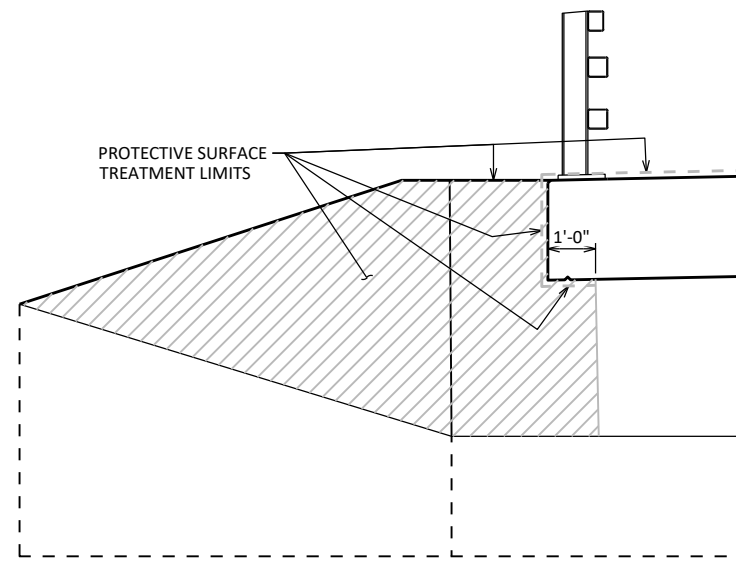


ABUTMENT BACKFILL DIAGRAM

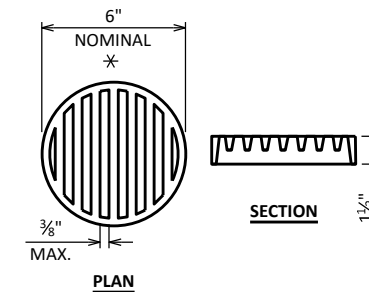
- L = ABUTMENT BODY LENGTH AT BACKFACE (FT)
- H = AVERAGE ABUTMENT FILL HEIGHT (FT)
- H1 = WING 1 HEIGHT AT TIP (FT)
- H2 = WING 2 HEIGHT AT TIP (FT)
- W = WING LENGTH (FT)
- EF = EXPANSION FACTOR (1.20 FOR CY BID ITEMS AND 1.00 FOR TON BID ITEMS)
- $V_{CF} = (L)(3.0')(H) + (L)(0.5)(1.5H)(H) + (3')(0.5)(H1+H2+H+H)(W)$
- $V_{CY} = V_{CF}(EF)/27$
- $V_{TON} = V_{CY}(2.0)$



PROFILE GRADE LINE



PROTECTIVE SURFACE TREATMENT DETAILS

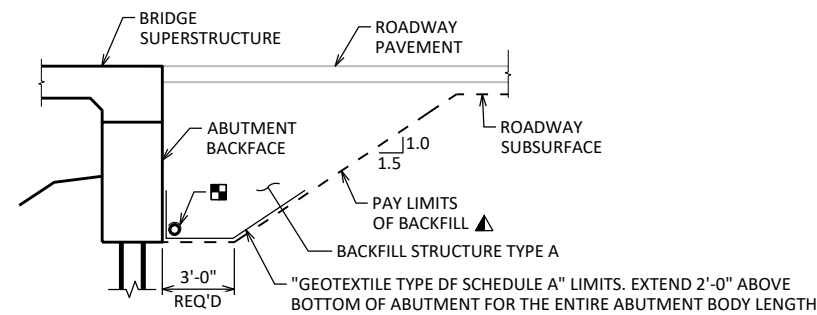


RODENT SHIELD DETAIL

* DIMENSIONS ARE APPROXIMATE. THE GRATE IS SIZED TO FIT INTO A PIPE COUPLING. ORIENT SO SLOTS ARE VERTICAL.

THE RODENT SHIELD, PIPE COUPLING AND SCREWS SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM "PIPE UNDERDRAIN WRAPPED 6-INCH".

THE RODENT SHIELD SHALL BE A PVC GRATE SIMILAR TO THIS DETAIL. THE GRATE IS COMMERCIALY AVAILABLE AS A FLOOR STRAINER. A PIPE COUPLING IS REQUIRED FOR THE ATTACHMENT OF THIS SHIELD TO THE EXPOSED END OF THE PIPE UNDERDRAIN. THE SHIELD SHALL BE FASTENED TO THE PIPE COUPLING WITH TWO OR MORE NO. 10 X 1-INCH STAINLESS STEEL SHEET METAL SCREWS.



TYPICAL SECTION THRU ABUTMENT

▲ BACKFILL PAY LIMITS. BACKFILL BEYOND PAY LIMITS SHALL BE INCIDENTAL TO EXCAVATION FOR STRUCTURES. LIMITS OF EXCAVATION SHALL BE DETERMINED BY THE CONTRACTOR.

■ PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. ATTACH RODENT SHIELD AT ENDS OF PIPE UNDERDRAIN.

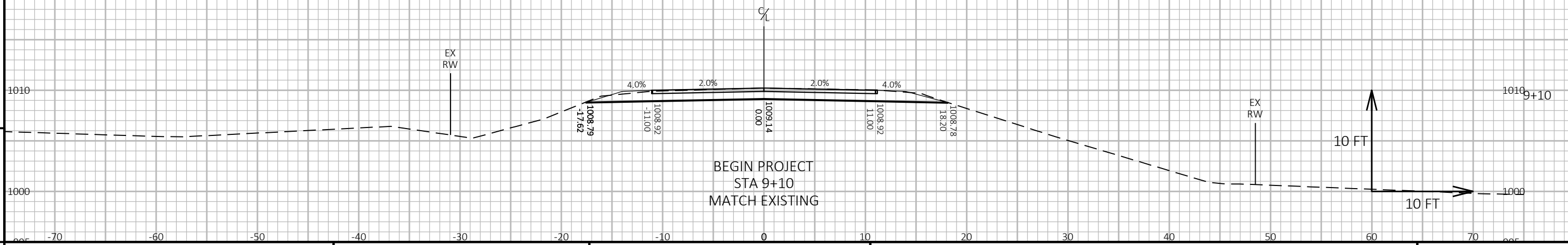
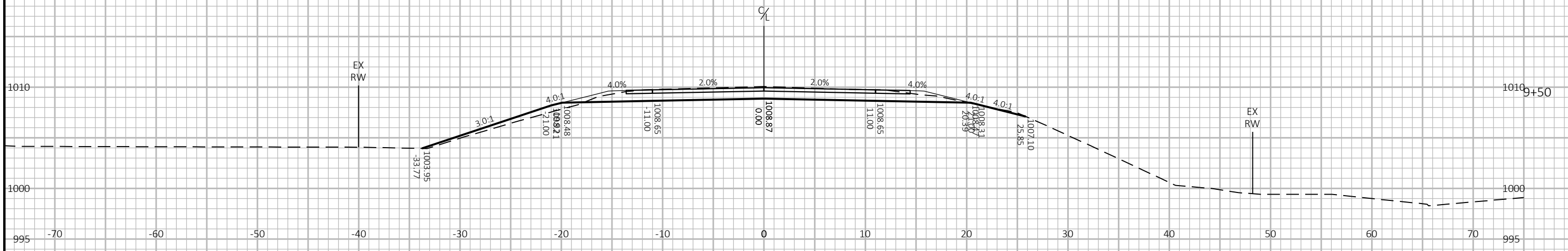
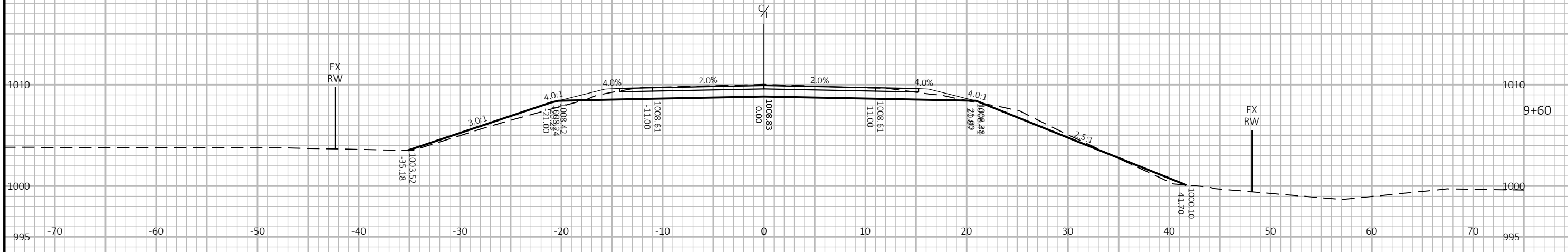
TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEMS	UNIT	SUPER	S. ABUT.	N. ABUT.	TOTALS
203.0260	REMOVING STRUCTURE OVER WATERWAY WITH MINIMAL DEBRIS	EACH	---	---	---	---
206.1001	EXCAVATION FOR STRUCTURES BRIDGES	EACH	---	---	---	---
210.1500	BACKFILL STRUCTURE TYPE A	TON	---	---	---	---
502.0100	CONCRETE MASONRY BRIDGES	CY	---	---	---	---
502.3200	PROTECTIVE SURFACE TREATMENT	SY	---	---	---	---
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB	---	---	---	---
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	---	---	---	---
506.0105	STRUCTURAL STEEL CARBON	LB	---	---	---	---
513.4061	RAILING TUBULAR TYPE M	LF	---	---	---	---
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	---	---	---	---
550.1100	PILING STEEL HP 10-INCH X 42 LB	LF	---	---	---	---
606.0300	RIPRAP HEAVY	CY	---	---	---	---
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	---	---	---	---
645.0111	GEOTEXTILE TYPE DF SCHEDULE A	SY	---	---	---	---
645.0120	GEOTEXTILE TYPE HR	SY	---	---	---	---
NON-BID ITEMS						
	FILLER	SIZE	---	---	---	1/2" & 3/4"
	NAMEPLATE	EACH	---	---	---	1
	BENCHMARK	EACH	---	---	---	1

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-18-0258			
DRAWN BY MFH		PLANS CK'D DKW	
CROSS SECTION & QUANTITIES			SHEET 2 OF 3

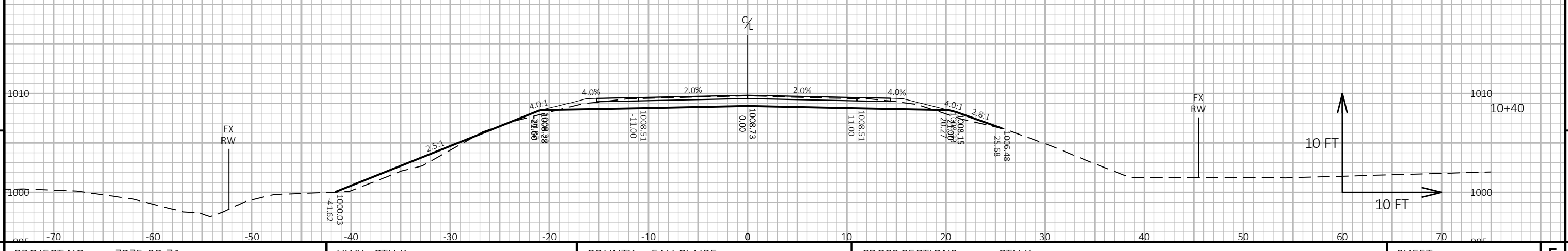
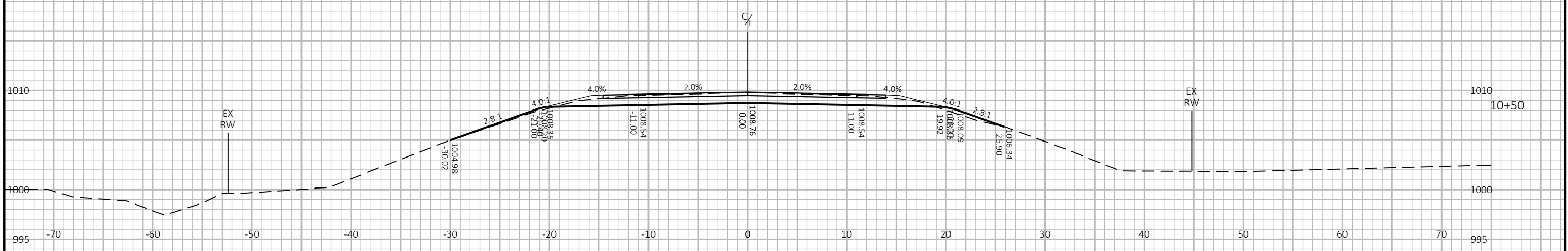
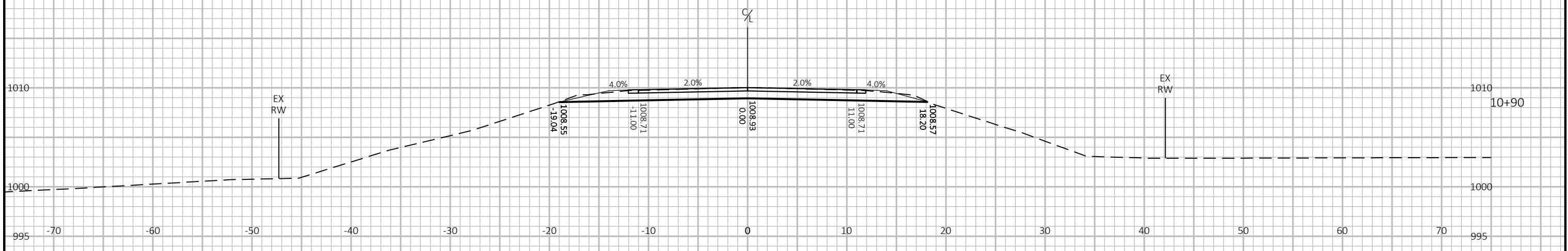
SCALE = NTS

STRUCTURE B-18-0258
STA 10+00



BEGIN PROJECT
STA 9+10
MATCH EXISTING

END PROJECT
STA 10+90
MATCH EXISTING



PROJECT NO: 7375-00-71 HWY: CTH K COUNTY: EAU CLAIRE CROSS SECTIONS: CTH K SHEET E