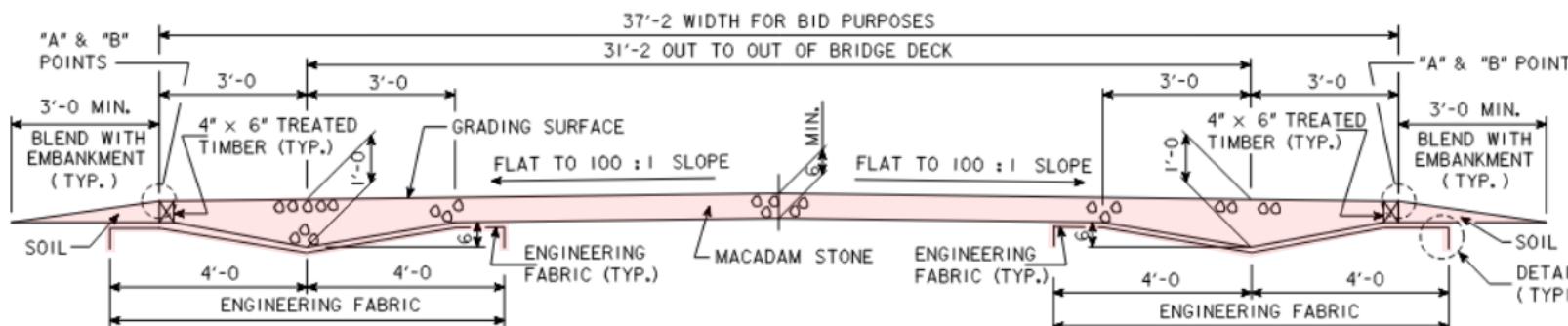


For Elevation and location of "A", "B", and "W" Points, see Berm Slope Location Table and Situation Plan (page 2 of this document).

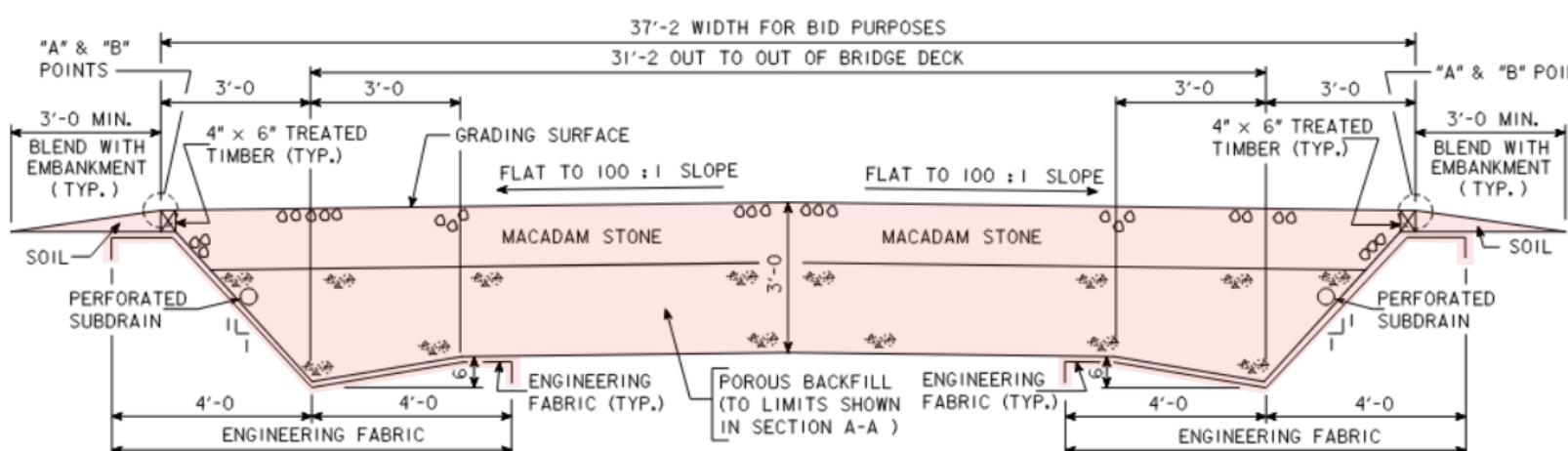
SECTION A-A

ENGINEERING FABRIC ENDS ARE TO BE BURIED 6" TO PREVENT UNDERMINING

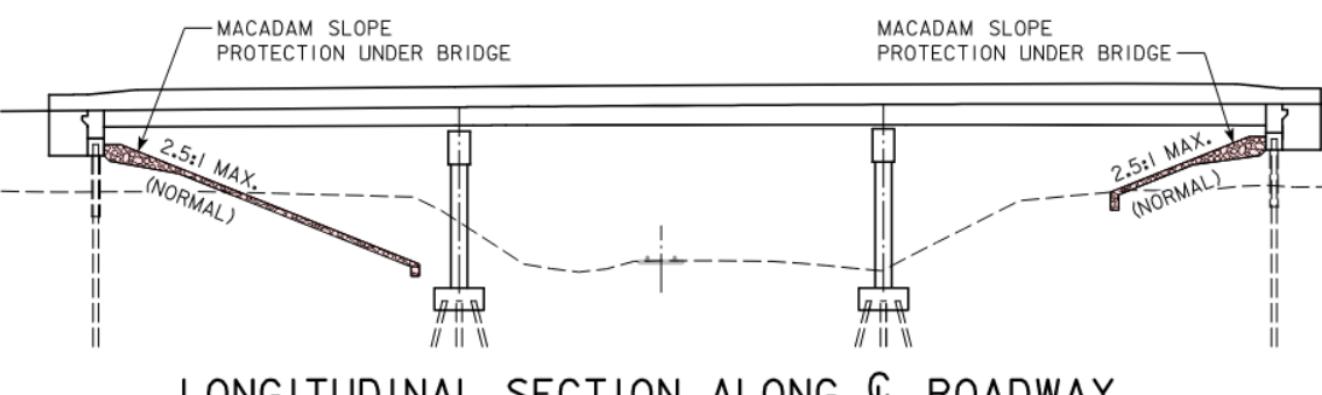
DETAIL "A"



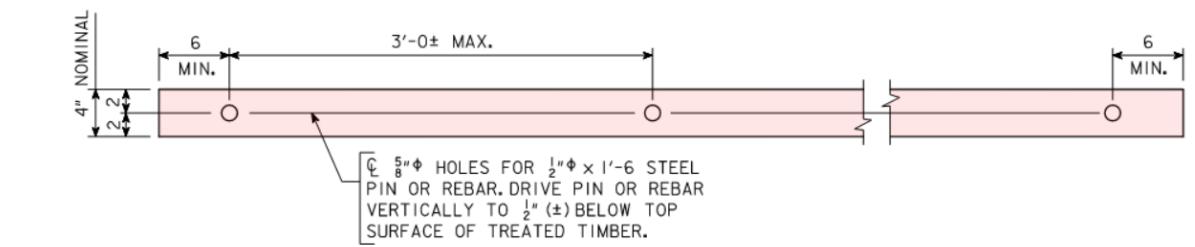
SECTION B-B



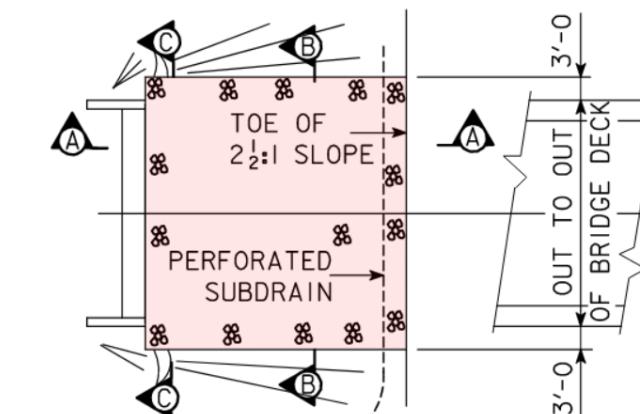
SECTION C-C



LONGITUDINAL SECTION ALONG 1/2 ROADWAY



4 x 6 TREATED TIMBER EDGING DETAILS



SLOPE PROTECTION LAYOUT

#### GENERAL NOTES:

THIS PLAN SHEET SHOWS DETAILS FOR PLACING A "MACADAM STONE SLOPE PROTECTION" UNDER OVERHEAD STRUCTURES.

THE BRIDGE BERM FORESLOPE SHALL BE COMPAKTED AND SHAPED AS SHOWN ON THIS SHEET, SHAPING WILL INCLUDE EXCAVATION, FROM THE GRADING SURFACE SHOWN, THE SITUATION PLAN, AND AS DIRECTED BY THE ENGINEER. THE BERM FORESLOPE SHALL BE FIRM WHEN THE ENGINEERING FABRIC AND MACADAM STONE ARE PLACED.

THE ENGINEERING FABRIC SHALL BE IN ACCORDANCE WITH ARTICLE 4196.01, B, 3, OF THE STANDARD SPECIFICATIONS. IF THE ENGINEERING FABRIC IS LAPPED, THE LAPS SHALL BE A MINIMUM OF ONE FOOT IN LENGTH, SHINGLE FASHION WITH UP SLOPE LAP PIECE ON TOP AND STAPLED FOR CONTINUITY.

THE MACADAM STONE SHALL BE IN ACCORDANCE WITH SECTION 4122, OF THE STANDARD SPECIFICATIONS, COARSE MATERIAL (NO CHOCKE STONE IS ALLOWED).

WOOD PRESERVATIVE TREATMENT FOR THE TIMBER EDGING SHALL MEET THE REQUIREMENTS FOR GUARDRAIL POSTS, SAWED FOUR SIDES, IN ACCORDANCE WITH SECTION 4161, OF THE STANDARD SPECIFICATIONS.

THE MACADAM STONE SHALL BE DEPOSITED, SPREAD, CONSOLIDATED AND SHAPED BY MECHANICAL OR HAND METHODS THAT WILL PROVIDE UNIFORM DEPTH AND DENSITY AND PROVIDE UNIFORM SURFACE APPEARANCE.

PAYMENT FOR "MACADAM STONE SLOPE PROTECTION" WILL BE MADE ON A SQUARE YARD BASIS FOR SLOPE PROTECTION CONSTRUCTED. THE UNIT PRICE BID PER SQUARE YARD SHALL INCLUDE ALL COSTS FOR MATERIAL AND LABOR REQUIRED TO CONSTRUCT THE SLOPE PROTECTION SHOWN ON THESE PLANS.

THE BERM FORESLOPE SHAPING AND COMPAKTING AND THE DISPOSAL OF EXCESS SOIL FROM SHAPING OR TRENCHING SHALL BE CONSIDERED INCIDENTAL TO PLACING THE SLOPE PROTECTION.

WHERE EROSION CONTROL WORK HAS BEEN COMPLETED THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY PLANT MATERIALS DESTROYED ADJACENT TO THE SLOPE PROTECTION AREA. THE CONTRACTOR SHALL REPLANT, RESEED AND REMULCH ALL DISTURBED AREAS, DESIGNATED BY THE ENGINEER, IN ACCORDANCE WITH SECTION 2601, OF THE STANDARD SPECIFICATIONS, AT THE CONTRACTOR'S EXPENSE.

THE BRIDGE CONTRACTOR IS TO INSTALL SUBDRAINS AS DETAILED ON THE SUBDRAIN DETAILS SHEET.

#### NOTES:

1. For the full plan set and additional structure information, see Br1-Precast and Cast Concrete-Iowa DOT.pdf.

Unit Test Instruction for the Design-to-Construction Data Exchange

.	.	.
1	12/21/23	.

No. Date Issue / Revision Notes

Unit Test Description

Level 1 Slope Protection 01

Drawn By

DHC

Reviewed By

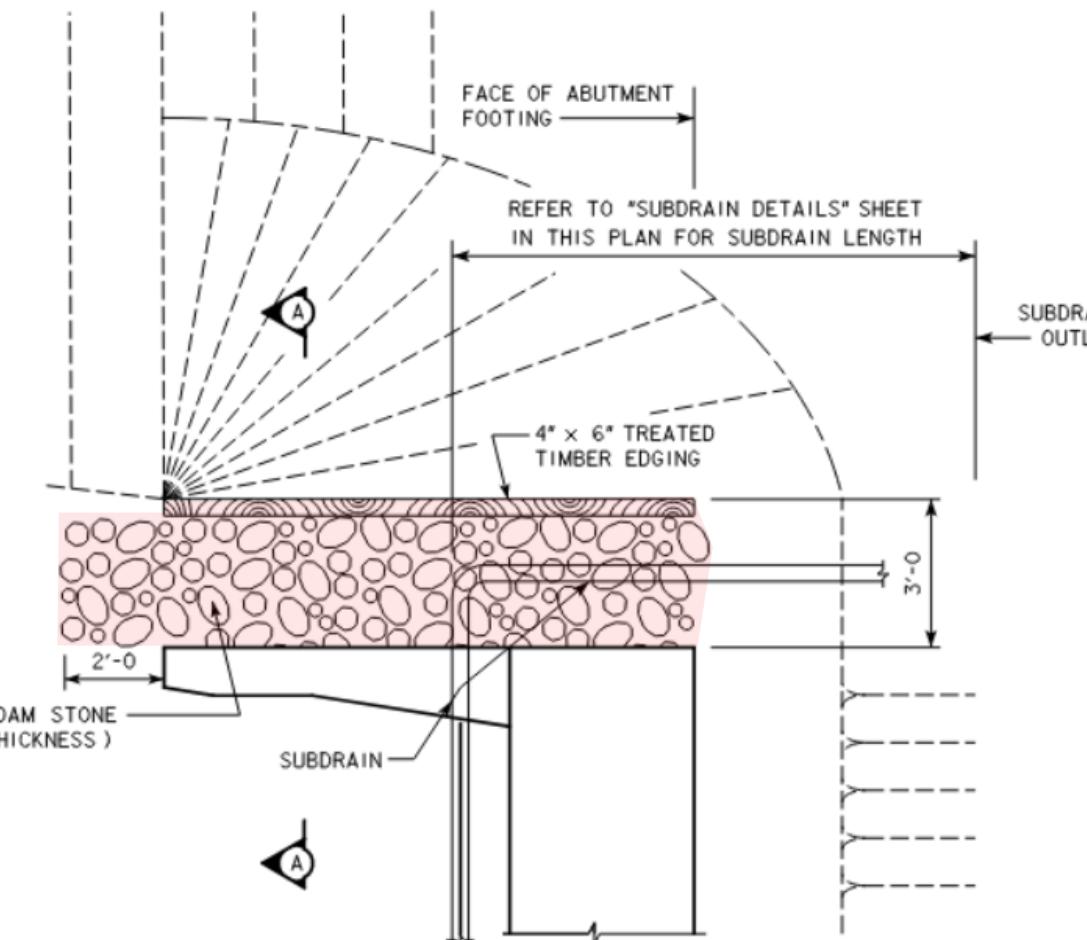
MJY



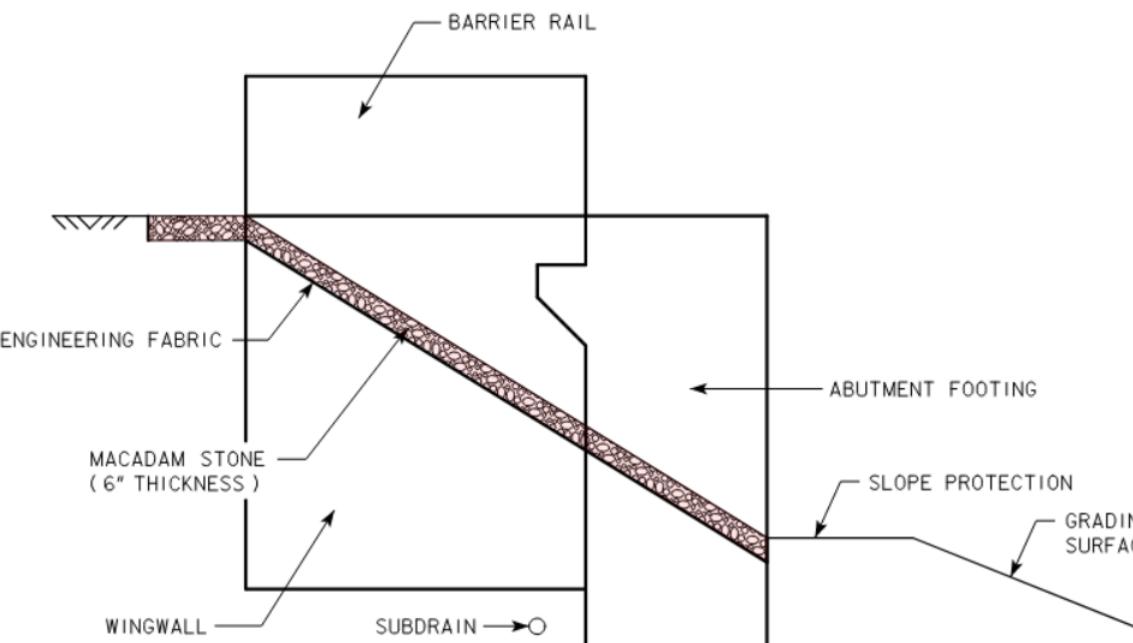
jō consulting

L1-Br01

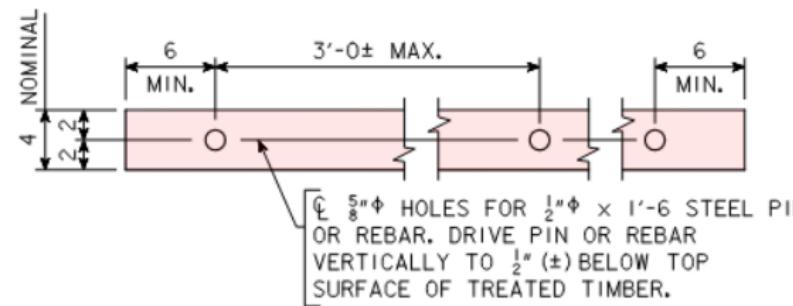
SlopeProtection01 / 01



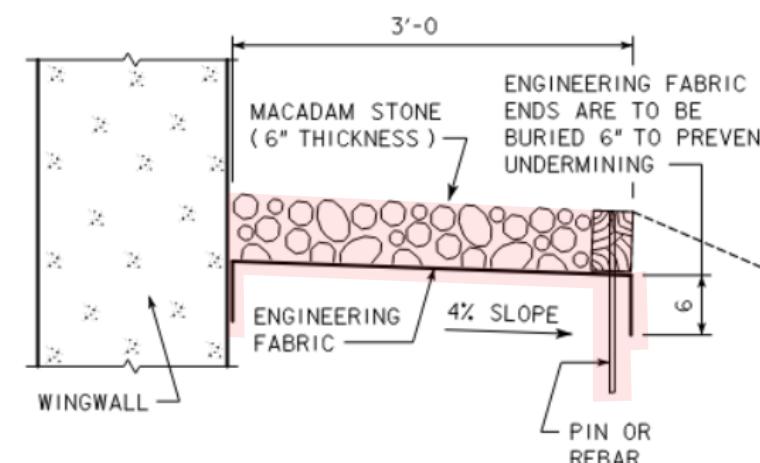
TOP VIEW OF WING ARMORING



PROFILE VIEW OF WING ARMORING



## 4" X 6" TREATED TIMBER EDGING DETAILS



SECTION A-A

### GENERAL NOTES:

MACADAM STONE SHALL BE PLACED ALONG THE SIDE OF THE WING AND ABUTMENT FOOTING AS SHOWN IN SECTION A-A. THIS IS TYPICAL AT EACH CORNER OF THE BRIDGE UNLESS OTHERWISE NOTED.

THE PLANS. THE MACADAM STONE AT THESE LOCATIONS SHALL BE DELAYED WITH ENGINEERING FABRIC IN ACCORDANCE WITH ARTICLE 36.01, B, 3, OF THE STANDARD SPECIFICATIONS.

THE MACADAM STONE SHALL BE IN ACCORDANCE WITH SECTION 22, OF THE STANDARD SPECIFICATIONS, COARSE MATERIAL (NO OKE STONE IS ALLOWED).

WOOD PRESERVATIVE TREATMENT FOR THE TIMBER EDGING SHALL MEET THE REQUIREMENTS FOR GUARDRAIL POSTS, SAWED FOUR SIDES, ACCORDANCE WITH SECTION 4161, OF THE STANDARD SPECIFICATIONS. THE MACADAM STONE SHALL BE DEPOSITED, SPREAD, CONSOLIDATED AND SHAPED BY MECHANICAL OR HAND METHODS THAT WILL PROVIDE AIFORM 6" DEPTH AND DENSITY AND PROVIDE UNIFORM FACE APPEARANCE.

PAYMENT FOR THE BRIDGE WING ARMORING WILL BE BID PER SQUARE YARD. COST WILL INCLUDE ENGINEERING FABRIC, MACADAM ONE, TREATED TIMBER EDGING, EXCAVATION, SHAPING, AND IMPACTION TO DIMENSIONS SHOWN IN THESE PLANS. BID ITEM ALL BE "BRIDGE WING ARMORING - MACADAM STONE".

### NOTES:

- 1.

Unit Test Instruction for the Design-to-Construction Data Exchange		
1	10/24/23	Issue / Revision Notes
No.	Date	Unit Test / Sheet No.
Level 1 Slope Protection 01		Unit Test / Sheet No.
Drawn By	Reviewed By	
DHC	MJY	

**BIM**  
FOR  
BRIDGES  
AND STRUCTURES  
TPP-5(372)

**HDR**

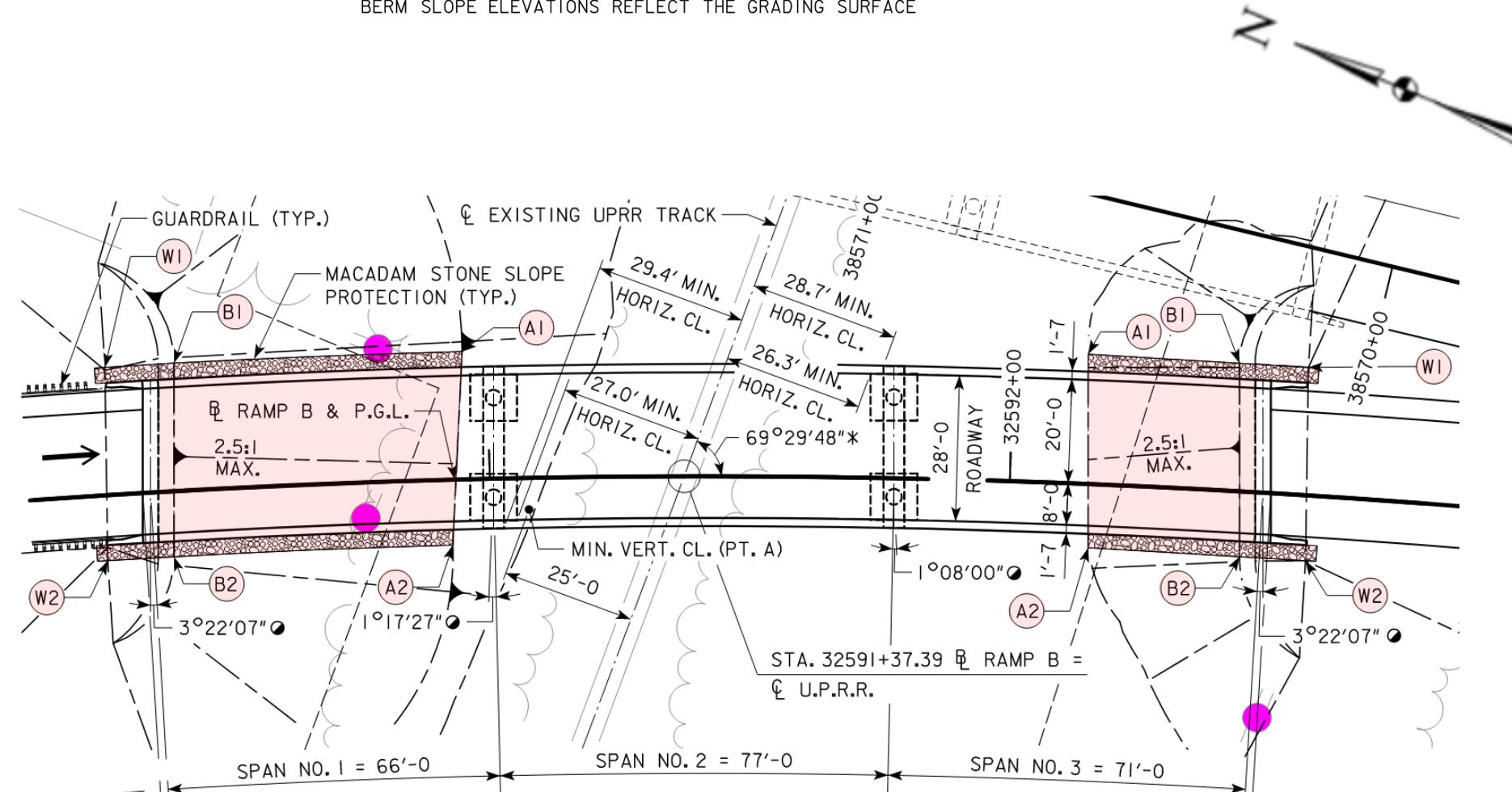
**jō consulting**

**L1-Br01**

**SlopeProtection01 / 02**

BERM SLOPE LOCATION TABLE					
POINTS	NORTH ABUTMENT			SOUTH ABUTMENT	
	STATION	OFFSET	ELEV.	STATION	OFFSET
A1	32590+93.40	24.58' LT.	933.04	32592+14.11	24.58' LT.
A2	32590+92.54	12.58' RT.	933.00	32592+15.59	12.58' RT.
B1	32590+40.59	24.58' LT.	954.40	32592+42.84	24.58' LT.
B2	32590+38.51	12.58' RT.	954.40	32592+44.93	12.58' RT.
W1	32590+27.48	24.58' LT.	961.12	32592+55.96	24.58' LT.
W2	32590+25.70	12.58' RT.	959.75	32592+57.74	12.58' RT.

BERM SLOPE ELEVATIONS REFLECT THE GRADING SURFACE



SITUATION PLAN

NOTES:

1.

Unit Test Instruction for the  
Design-to-Construction Data Exchange

.	.	.
1	12/21/23	.

No. Date Issue / Revision Notes

Unit Test Description Level 1 Slope Protection 01

Drawn By	Reviewed By
DHC	MJY



jō consulting

L1-Br01

SlopeProtection01 / 03