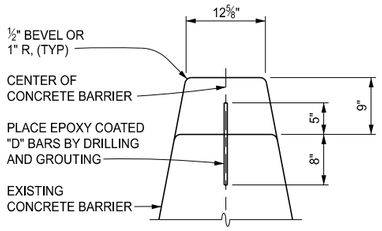
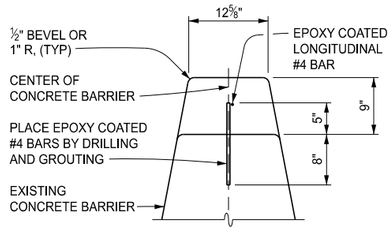
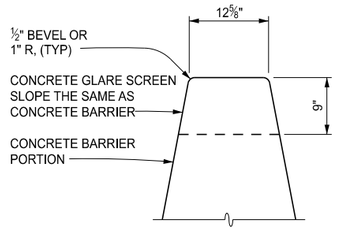


CONCRETE GLARE SCREEN
REINFORCED WITH "D" BARS
(ONLY FOR USE WHEN CONSTRUCTING GLARE SCREEN
ON TOP OF EXISTING CONCRETE BARRIER)

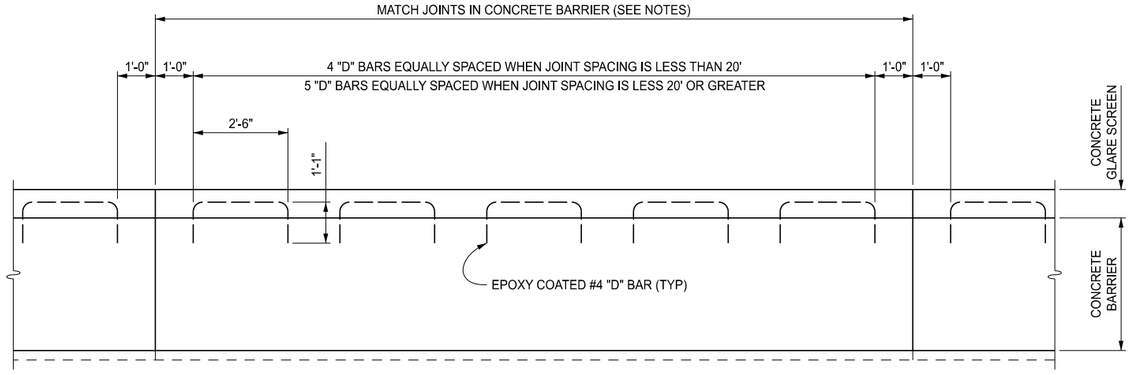


CONCRETE GLARE SCREEN
REINFORCED WITH DOWELS
AND LONGITUDINAL BARS
(ONLY FOR USE WHEN CONSTRUCTING GLARE SCREEN
ON TOP OF EXISTING CONCRETE BARRIER)

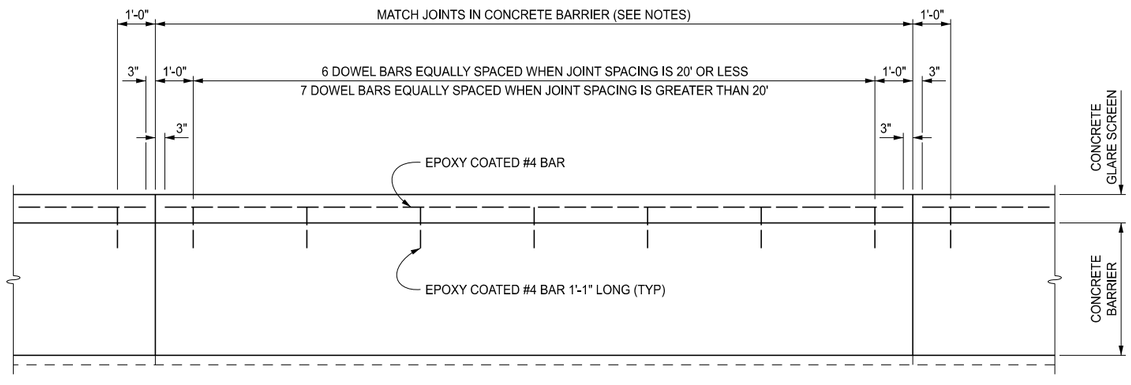


USE THIS CROSS SECTION ON ALL NEW CONCRETE BARRIER CONSTRUCTION WHERE GLARE SCREEN IS PROPOSED. ENSURE GLARE SCREEN IS POURED MONOLITHICALLY WITH CONCRETE BARRIER. NO STEEL REINFORCEMENT IS REQUIRED.

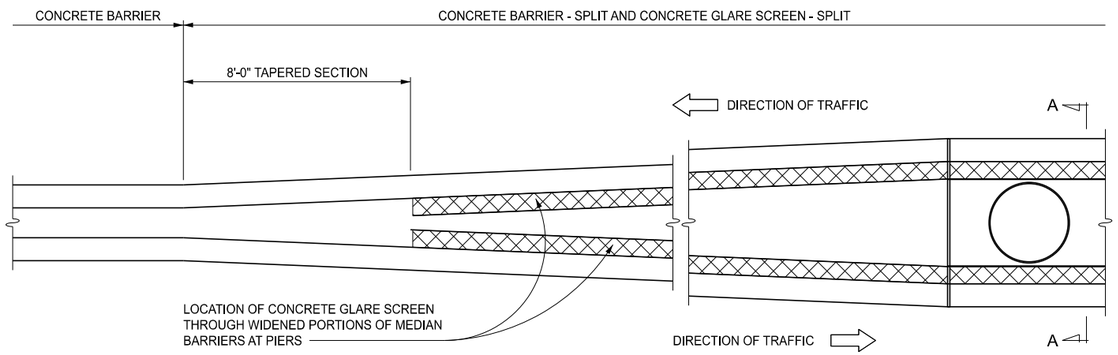
CONCRETE GLARE SCREEN CROSS - SECTION



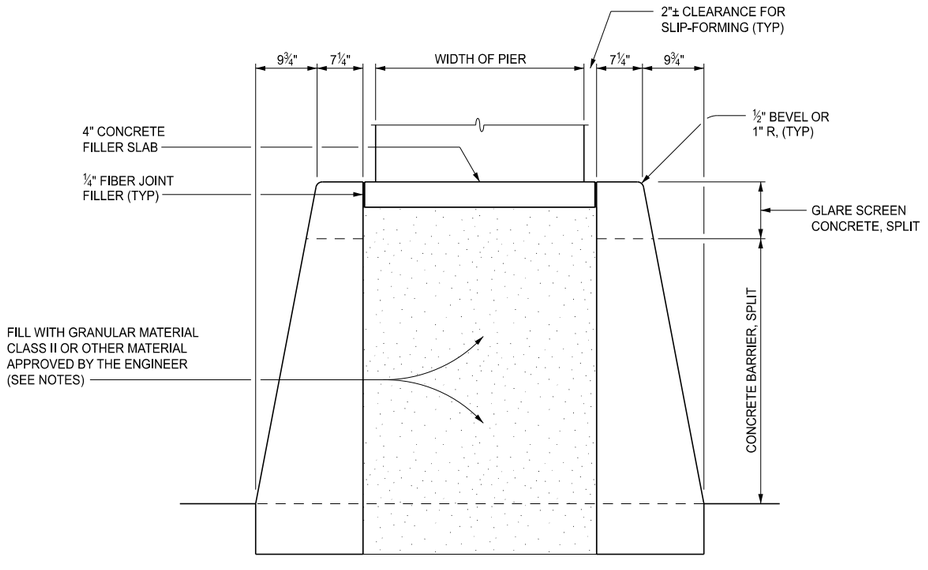
ELEVATION VIEW OF
CONCRETE GLARE SCREEN REINFORCED WITH "D" BARS



ELEVATION VIEW OF
CONCRETE GLARE SCREEN REINFORCED WITH DOWELS AND LONGITUDINAL BARS



PLAN VIEW AT BRIDGE PIERS



SECTION A-A

USE THIS CROSS SECTION ON ALL NEW CONCRETE BARRIER CONSTRUCTION WHERE GLARE SCREEN IS PROPOSED. ENSURE GLARE SCREEN IS POURED MONOLITHICALLY WITH CONCRETE BARRIER. NO STEEL REINFORCEMENT IS REQUIRED.

APPROVED BY: _____
DIRECTOR, BUREAU OF FIELD SERVICES

APPROVED BY: _____
DIRECTOR, BUREAU OF DEVELOPMENT

MDOT
Michigan Department of Transportation

DEPARTMENT DIRECTOR
BRADLEY C. WIEFERICH, PE

STANDARD PLAN FOR
CONCRETE GLARE SCREEN

(SPECIAL DETAIL)	11/04/2025	R-76-F	SHEET
FHWA APPROVAL	PLAN DATE		1 OF 4

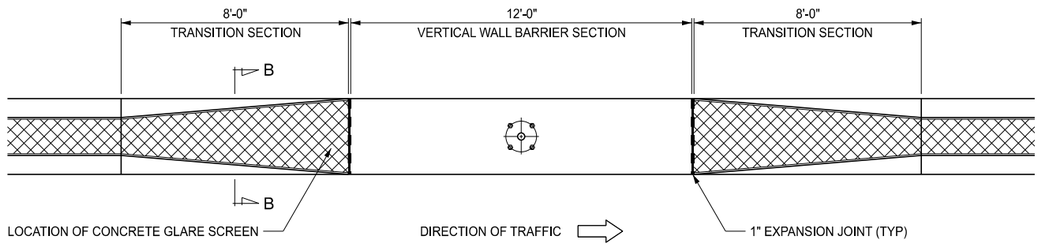
MDOT
Michigan Department of Transportation

DEPARTMENT DIRECTOR
BRADLEY C. WIEFERICH, PE

STANDARD PLAN FOR
CONCRETE GLARE SCREEN

(SPECIAL DETAIL)	11/04/2025	R-76-F	SHEET
FHWA APPROVAL	PLAN DATE		2 OF 4

SECT

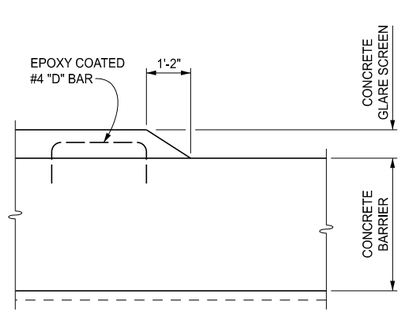


PLAN VIEW AT LIGHT STANDARD FOUNDATION TRANSITIONS

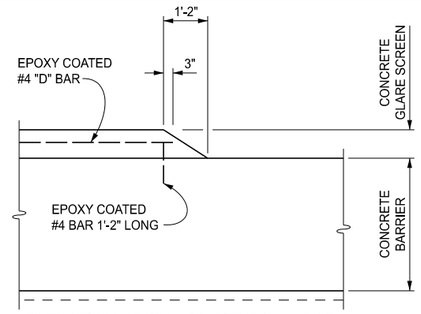
SECTION B-B

USE THIS CROSS SECTION ON ALL NEW CONCRETE BARRIER CONSTRUCTION WHERE GLARE SCREEN IS PROPOSED. ENSURE GLARE SCREEN IS POURED MONOLITHICALLY WITH CONCRETE BARRIER. NO STEEL REINFORCEMENT IS REQUIRED.

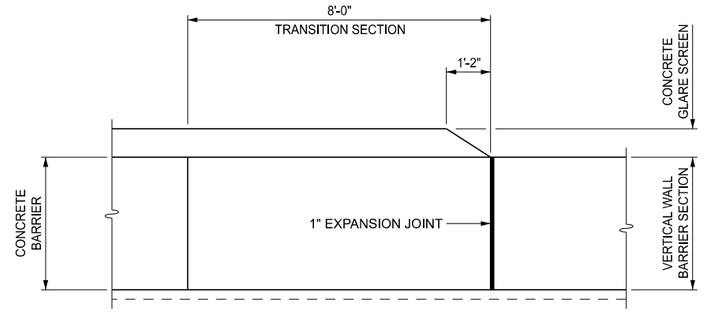
MDOT Michigan Department of Transportation DEPARTMENT DIRECTOR BRADLEY C. WIEFERICH, PE	STANDARD PLAN FOR CONCRETE GLARE SCREEN			
	(SPECIAL DETAIL) FHWA APPROVAL	11/04/2025 PLAN DATE	R-76-F	SHEET 3 OF 4



ELEVATION WHEN "D" BARS ARE USED



ELEVATION WHEN LONGITUDINAL BAR AND DOWEL BARS ARE USED



ELEVATION AT LIGHT STANDARD FOUNDATIONS

CONCRETE GLARE SCREEN ENDINGS

USE THIS CROSS SECTION ON ALL NEW CONCRETE BARRIER CONSTRUCTION WHERE GLARE SCREEN IS PROPOSED. ENSURE GLARE SCREEN IS POURED MONOLITHICALLY WITH CONCRETE BARRIER. NO STEEL REINFORCEMENT IS REQUIRED.

NOTES:

FORM AND EDGE CONTRACTION JOINTS TO A DEPTH OF AT LEAST 1" ON BOTH SIDES.

MATCH CONTRACTION JOINTS IN CONCRETE GLARE SCREEN WITH PLANE OF WEAKNESS JOINTS IN CONCRETE BARRIER AND MATCH EXPANSION JOINTS IN CONCRETE GLARE SCREEN WITH EXPANSION JOINTS IN CONCRETE BARRIER.

WHERE A CRACK IN THE EXISTING CONCRETE BARRIER APPEARS TO BE WORKING AS A JOINT, PLACE A CONTRACTION JOINT IN THE CONCRETE GLARE SCREEN DIRECTLY OVER THE CRACK, AND IF STEEL REINFORCEMENT GOES THROUGH THE JOINT, CUT THE STEEL BAR AT THE JOINT (NO GAP IN THE STEEL IS REQUIRED). IF THE JOINT OVER THE CRACK IS WITHIN 4'-0" OF WHERE THE NORMAL JOINT WOULD BE LOCATED, OMIT THE NORMAL JOINT.

CONSTRUCT EXPANSION JOINTS BY INSERTING A 1" FIBER JOINT FILLER IN LINE WITH EXPANSION JOINTS IN THE CONCRETE BARRIER. ROUND ALL EDGES AND JOINTS, EXCEPT THE BASE WHEN IT IS LESS THAN THE WIDTH OF THE CONCRETE BARRIER.

WHEN THE LONGITUDINAL BAR IS FED IN CONTINUOUSLY IN LIEU OF TYING TO THE DOWEL BAR, SAW THE CONTRACTION JOINTS BY CUTTING THE REINFORCING STEEL AFTER THE CONCRETE HAS BEEN ALLOWED TO HARDEN.

MATCH SIDE SLOPE OF THE CONCRETE GLARE SCREEN WITH THE SIDE SLOPE OF THE ADJOINING CONCRETE BARRIER.

USE GRADE 40 STEEL REINFORCEMENT IN CONCRETE GLARE SCREEN.

DO NOT USE KINKED LONGITUDINAL BARS .

WHEN CONCRETE GLARE SCREEN IS INCLUDED IN THE SAME CONTRACT WITH CONCRETE BARRIER AND CONCRETE BARRIER, SPLIT, CAST THE TWO STRUCTURES MONOLITHICALLY; NO STEEL REINFORCEMENT IS REQUIRED. WHEN CONCRETE GLARE SCREEN IS TO BE PLACED ON CONCRETE BARRIERS HAVING VARIABLE HEIGHT, THE CONTRACTOR WILL HAVE THE OPTION OF CASTING MONOLITHICALLY OR SEPARATELY. WHEN CAST SEPARATELY, REINFORCE THE GLARE SCREEN AS SPECIFIED ON SHEET 1 OF THIS PLAN.

MDOT Michigan Department of Transportation DEPARTMENT DIRECTOR BRADLEY C. WIEFERICH, PE	STANDARD PLAN FOR CONCRETE GLARE SCREEN			
	(SPECIAL DETAIL) FHWA APPROVAL	11/04/2025 PLAN DATE	R-76-F	SHEET 4 OF 4

SECT