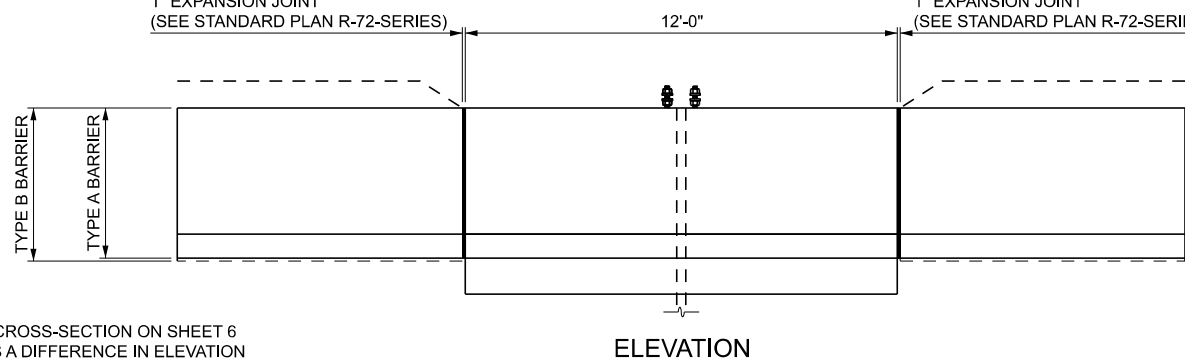
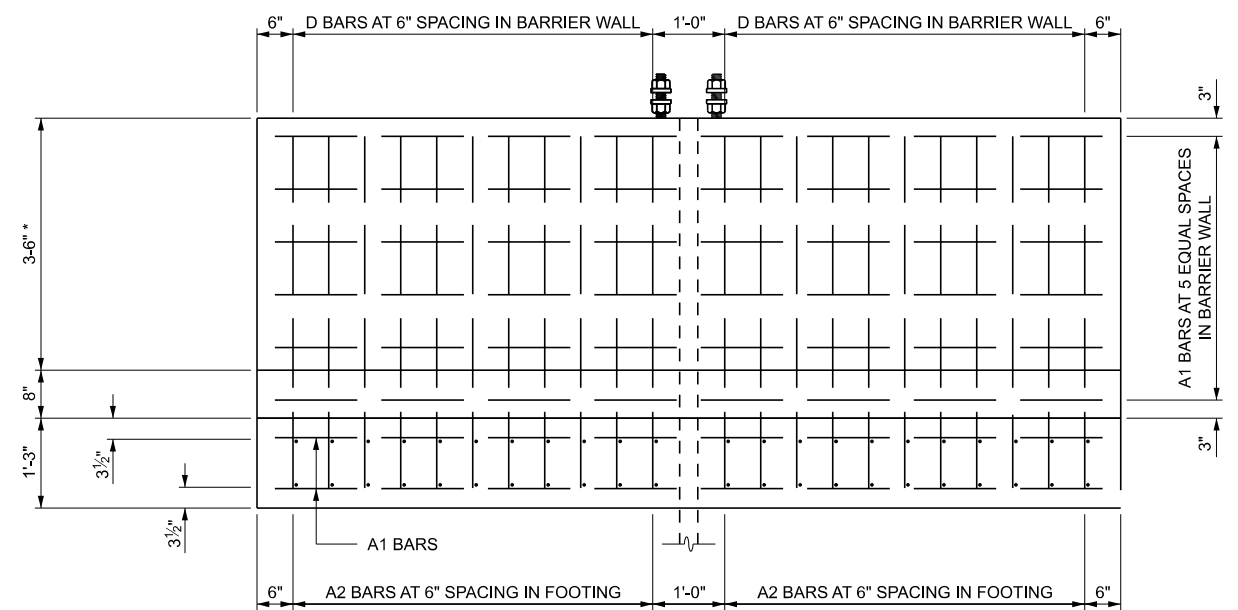
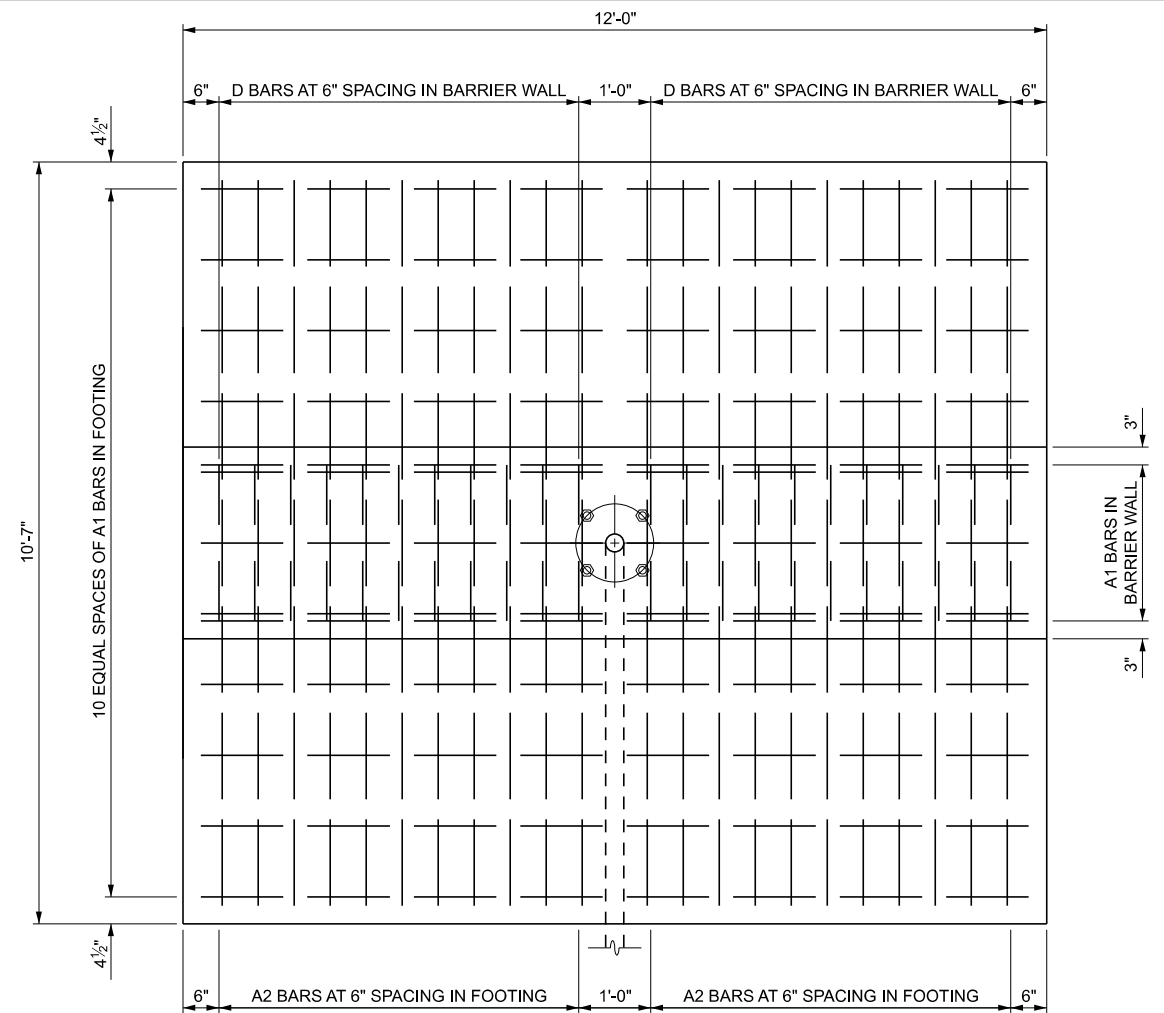
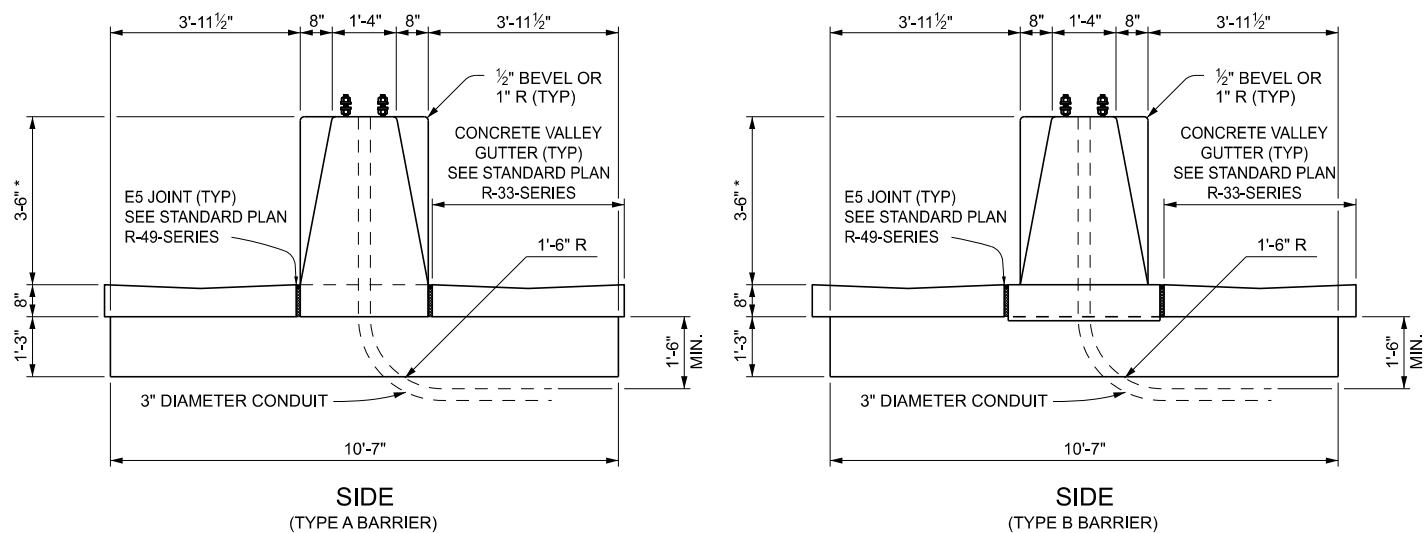


WHERE CONCRETE GLARE SCREEN IS SPECIFIED ON THE PLANS, END THE GLARE SCREEN AT THE 1" EXPANSION JOINT (SEE STANDARD PLAN R-72-SERIES)

WHERE CONCRETE GLARE SCREEN IS SPECIFIED ON THE PLANS, END THE GLARE SCREEN AT THE 1" EXPANSION JOINT (SEE STANDARD PLAN R-72-SERIES)



* SEE VARIABLE CROSS-SECTION ON SHEET 6 WHEN THERE IS A DIFFERENCE IN ELEVATION OF GUTTER ON EACH SIDE OF BARRIER



* SEE VARIABLE CROSS-SECTION ON SHEET 6 WHEN THERE IS A DIFFERENCE IN ELEVATION OF GUTTER ON EACH SIDE OF BARRIER

APPROVED BY: _____
DIRECTOR, BUREAU OF FIELD SERVICES



APPROVED BY: _____
DIRECTOR, BUREAU OF DEVELOPMENT

DEPARTMENT DIRECTOR
BRADLEY C. WIEFERICH, PE

STANDARD PLAN FOR
LIGHT STANDARD FOUNDATION
(CONCRETE BARRIER, DOUBLE FACE)

(SPECIAL DETAIL)
FHWA APPROVAL

12/12/2023
PLAN DATE

R-50-H

SHEET
1 OF 6



DEPARTMENT DIRECTOR
BRADLEY C. WIEFERICH, PE

STANDARD PLAN FOR
LIGHT STANDARD FOUNDATION
(CONCRETE BARRIER, DOUBLE FACE)

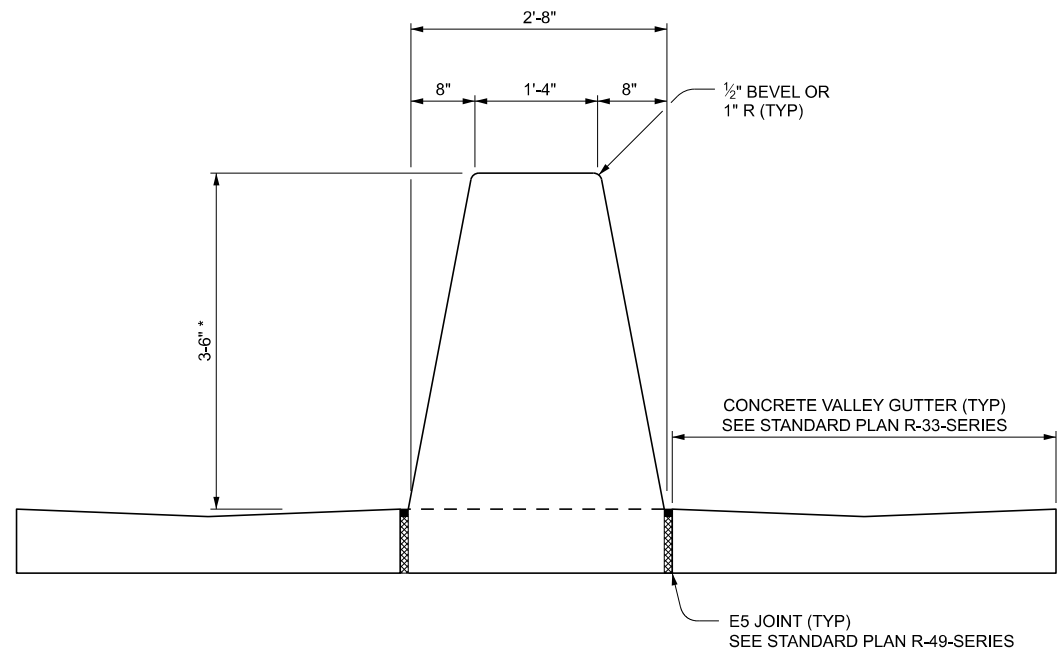
(SPECIAL DETAIL)
FHWA APPROVAL

12/12/2023
PLAN DATE

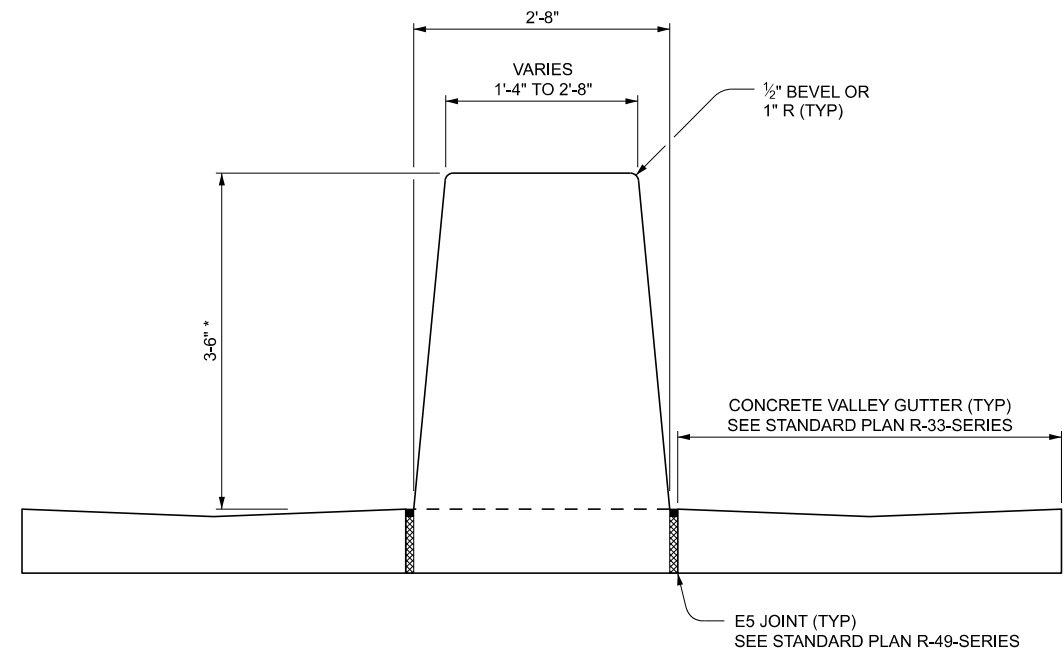
R-50-H

SHEET
2 OF 6

SECT

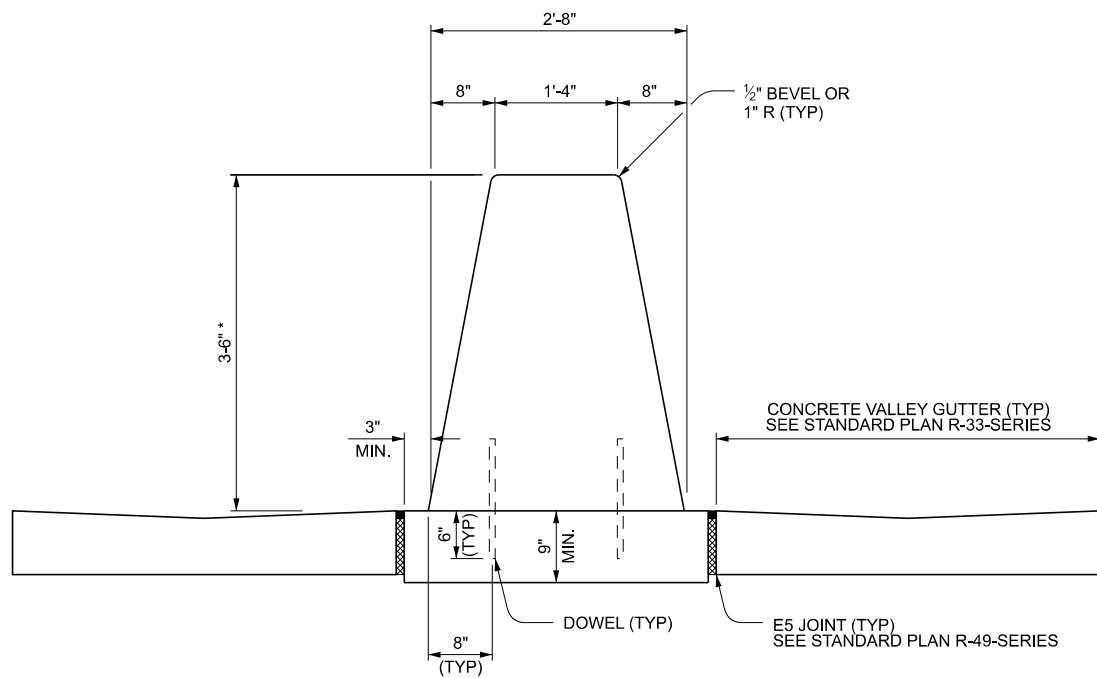


SECTION A-A
(TYPE A BARRIER)

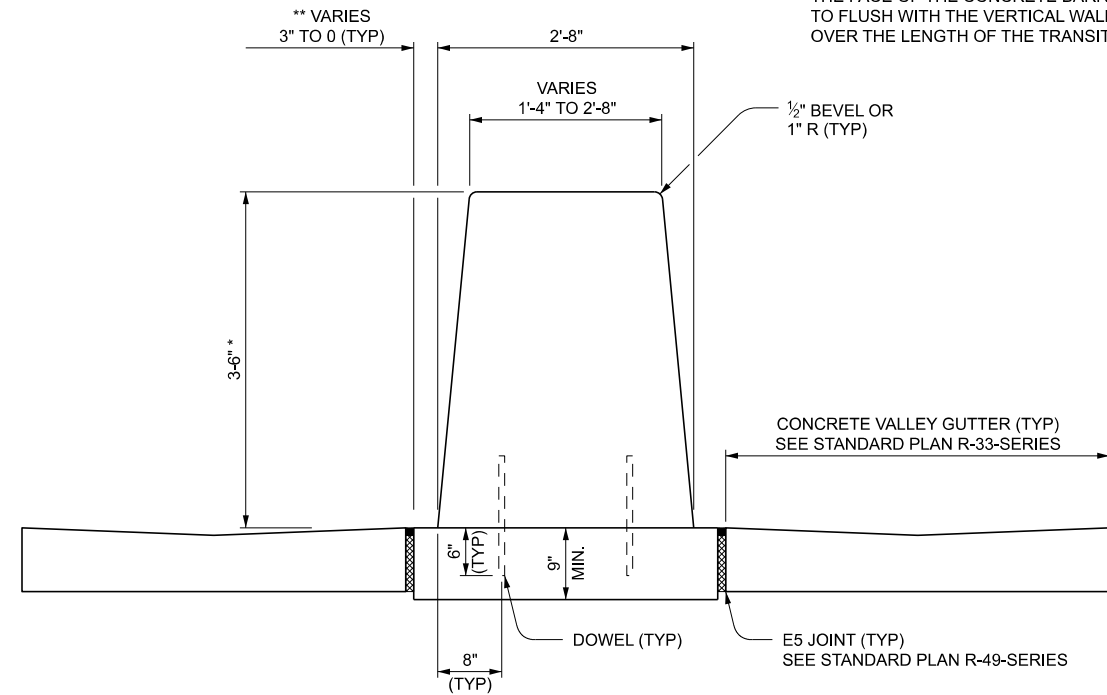


SECTION B-B
(TYPE A BARRIER)
UNIFORMLY TRANSITION THE BARRIER FACES
FROM SINGLE SLOPE SHAPE TO VERTICAL WALL

** UNIFORMLY TRANSITION E5 JOINT FROM 3" OUTSIDE THE FACE OF THE CONCRETE BARRIER, DOUBLE FACE TO FLUSH WITH THE VERTICAL WALL BARRIER SECTION OVER THE LENGTH OF THE TRANSITION SECTION



SECTION A-A
(TYPE B BARRIER)



SECTION B-B
(TYPE B BARRIER)
UNIFORMLY TRANSITION THE BARRIER FACES
FROM SINGLE SLOPE SHAPE TO VERTICAL WALL

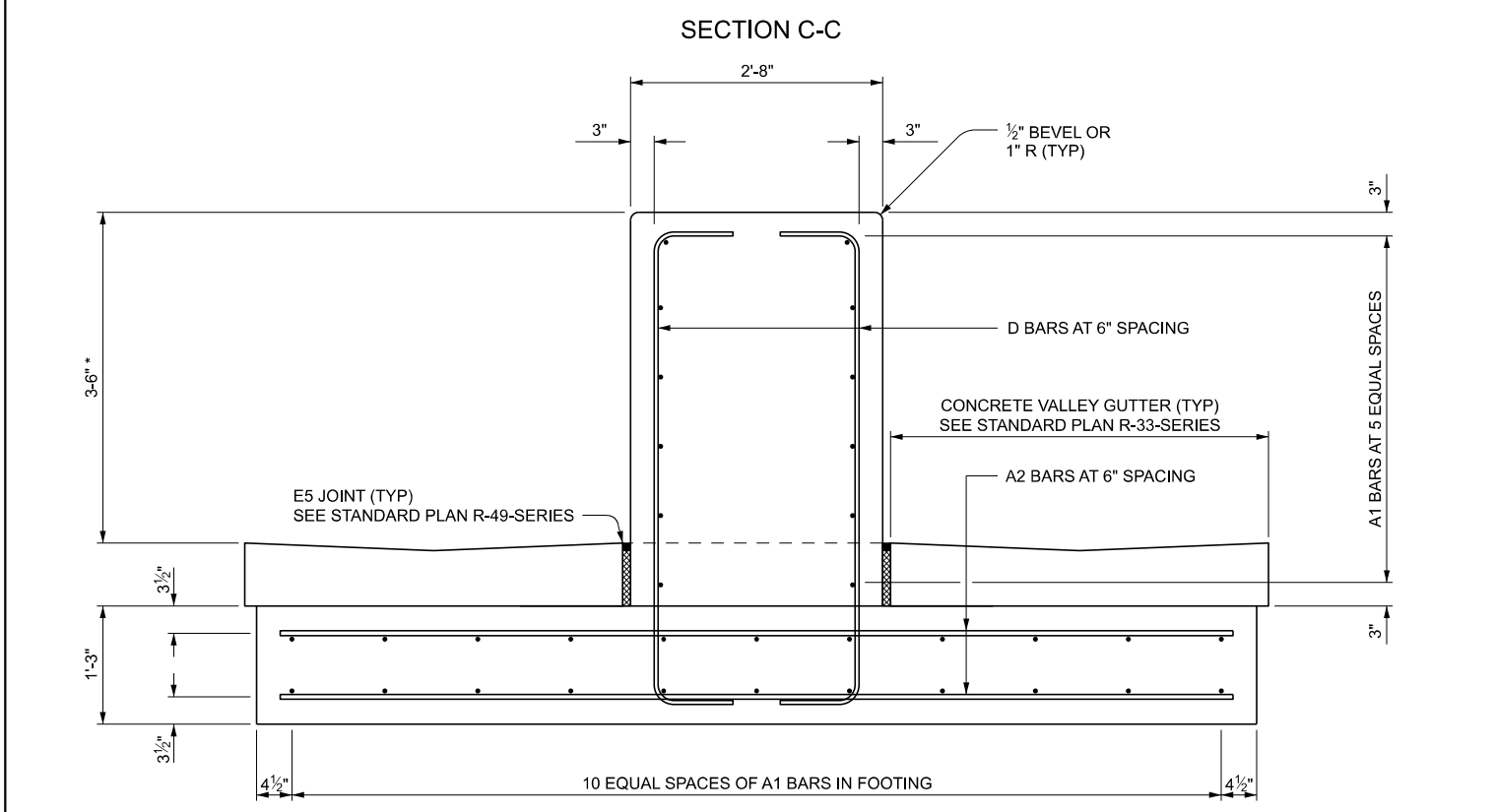
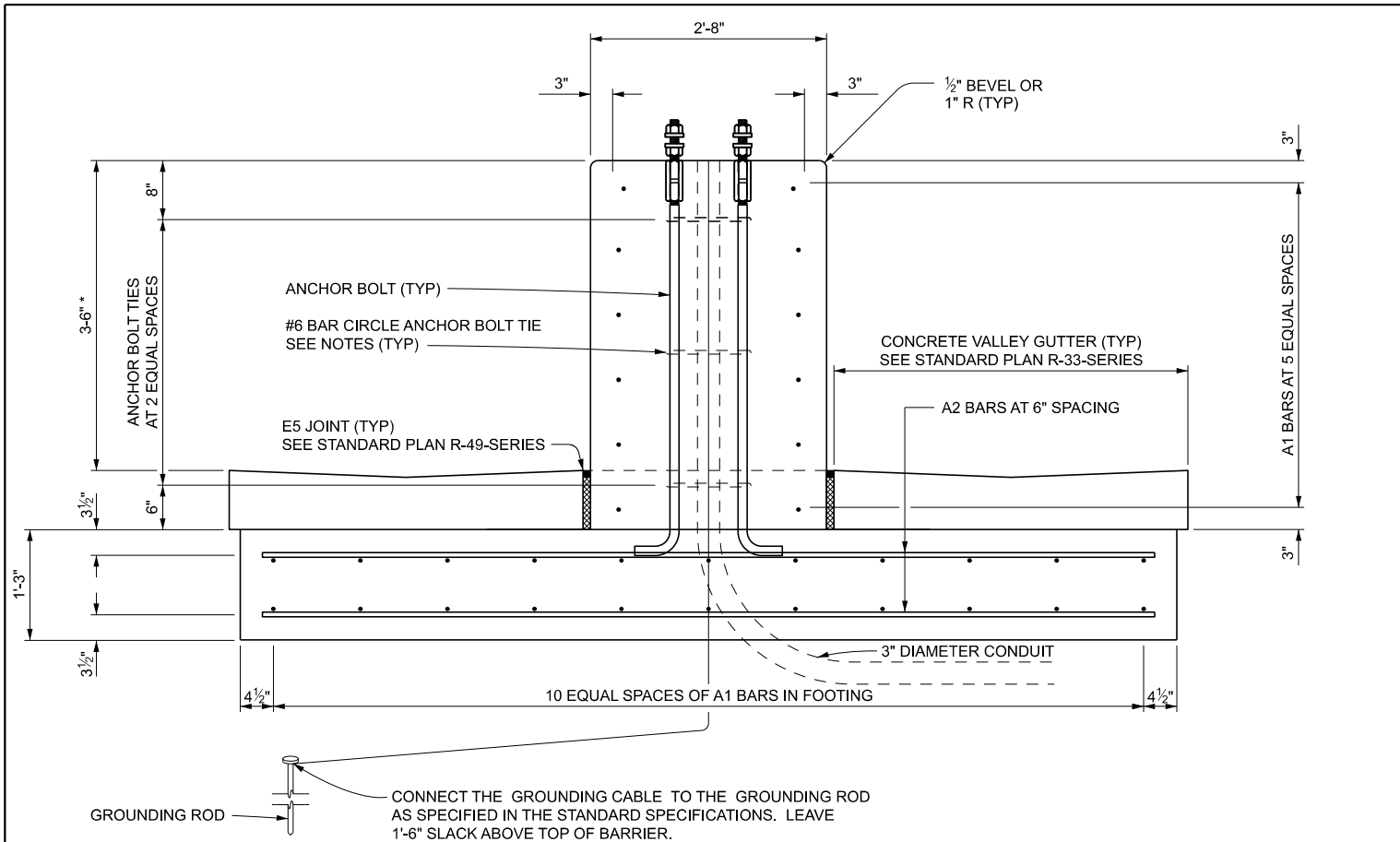
* SEE VARIABLE CROSS-SECTION ON SHEET 6 WHEN THERE IS A DIFFERENCE IN ELEVATION OF GUTTER ON EACH SIDE OF BARRIER

* SEE VARIABLE CROSS-SECTION ON SHEET 6 WHEN THERE IS A DIFFERENCE IN ELEVATION OF GUTTER ON EACH SIDE OF BARRIER

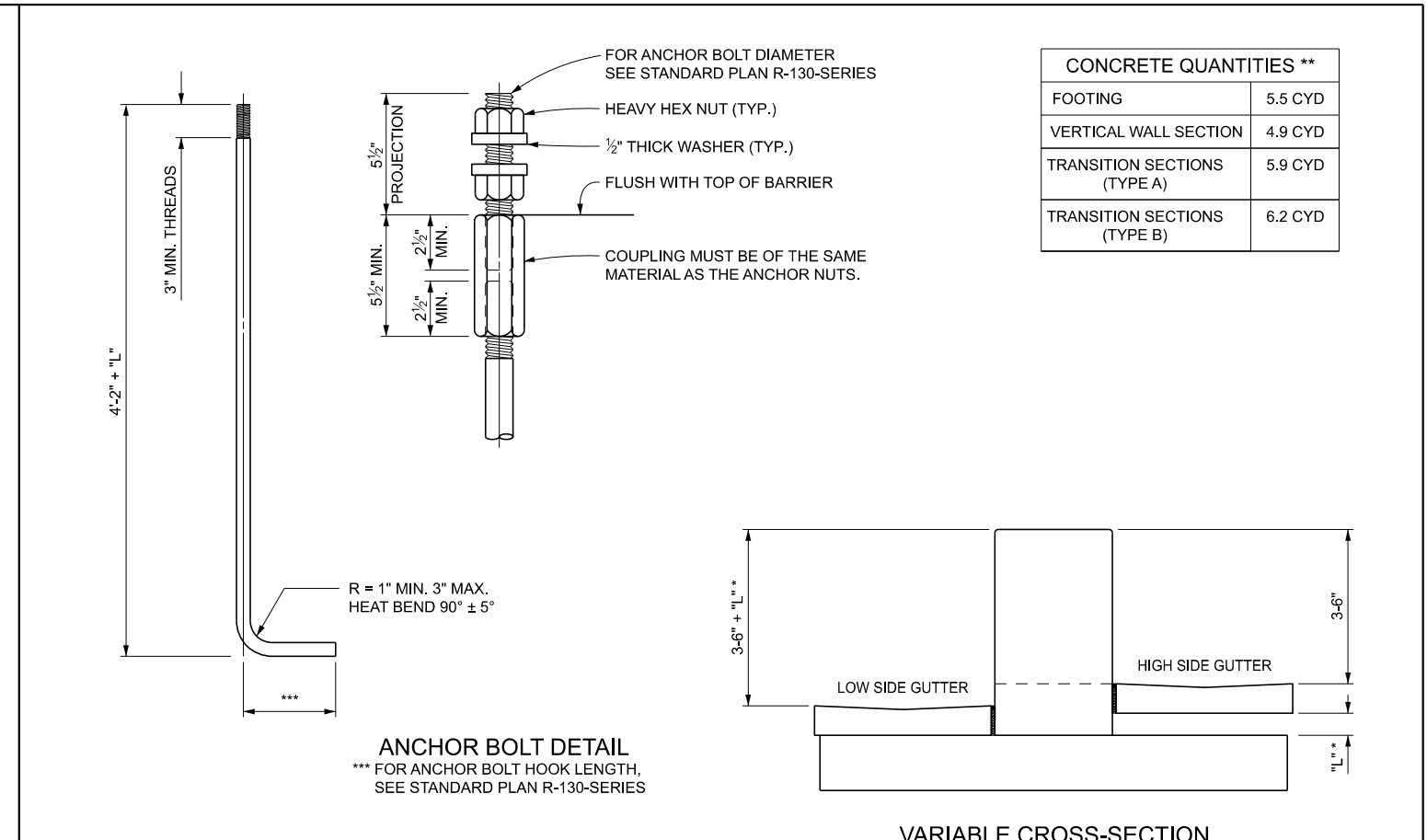
	STANDARD PLAN FOR LIGHT STANDARD FOUNDATION (CONCRETE BARRIER, DOUBLE FACE)			
	(SPECIAL DETAIL)	12/12/2023	R-50-H	SHEET 3 OF 6
FHWA APPROVAL	PLAN DATE			

	STANDARD PLAN FOR LIGHT STANDARD FOUNDATION (CONCRETE BARRIER, DOUBLE FACE)			
	(SPECIAL DETAIL)	12/12/2023	R-50-H	SHEET 4 OF 6
FHWA APPROVAL	PLAN DATE			

SECT

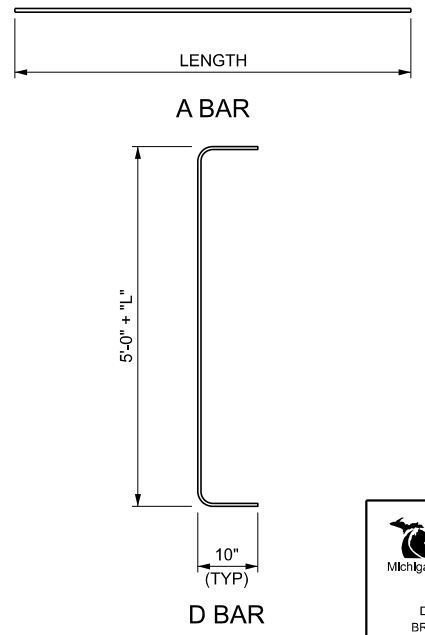


* SEE VARIABLE CROSS-SECTION ON SHEET 6 WHEN THERE IS A DIFFERENCE IN ELEVATION OF GUTTER ON EACH SIDE OF BARRIER



CONCRETE QUANTITIES **	
FOOTING	5.5 CYD
VERTICAL WALL SECTION	4.9 CYD
TRANSITION SECTIONS (TYPE A)	5.9 CYD
TRANSITION SECTIONS (TYPE B)	6.2 CYD

STEEL REINFORCEMENT (EPOXY COATED)				
BAR	BAR SIZE	LENGTH	NUMBER REQUIRED	WEIGHT (LBS) **
A1	#5	11'-6"	32	384
A2	#6	9'-10"	44	650
D	#4	6'-8"	44	198
TOTAL WEIGHT OF STEEL = 1232 LBS **				



** QUANTITIES BASED ON "L" = 0"

NOTES:

THE SIDE CONFIGURATION SPECIFIED ON THIS PLAN CONFORMS TO THE "SINGLE SLOPE" SHAPE.

ALL EXPOSED EDGES ON THE BARRIER SHALL HAVE A 1/2" BEVEL OR 1" RADIUS.

ANCHOR BOLTS, NUTS, AND WASHERS SHALL BE ACCORDING TO THE STANDARD SPECIFICATIONS FOR CONSTRUCTION.

PRIOR TO BEING APPROVED FOR SHIPMENT, EACH SET OF FOUR ANCHOR BOLTS SHALL BE TIED TOGETHER INTO A BASKET BY WELDING #6 BAR CIRCLES (OR APPROVED EQUAL) ALONG WITH SECURING A 3/4" PLYWOOD (OR APPROVED EQUAL) TEMPLATE. THE ANCHOR BOLT BASKET SHALL BE CAREFULLY SET AND HELD VERTICAL AT THE CORRECT LOCATION AND AT THE PROPER HEIGHT WITH THE 3/4" PLYWOOD (OR APPROVED EQUAL) TEMPLATE.

THE CONCRETE VALLEY GUTTER USED IN CONJUNCTION WITH THE LIGHT STANDARD FOUNDATION SHALL BE CONSTRUCTED AS DETAILED ON THIS PLAN. THE DESIGN FOR THIS STRUCTURE PERMITS A 6" DIFFERENCE IN ELEVATION BETWEEN THE GUTTER ON EITHER SIDE OF THE BARRIER.

WORK THIS STANDARD WITH STANDARD PLAN R-49-SERIES AND WHEN APPLICABLE R-33-SERIES.

MATERIALS FOR THE ELECTRICAL GROUNDING SYSTEM SHALL BE ACCORDING TO THE STANDARD SPECIFICATIONS FOR CONSTRUCTION UNLESS OTHERWISE SPECIFIED ON THIS PLAN.

<p>Michigan Department of Transportation</p> <p>DEPARTMENT DIRECTOR BRADLEY C. WIEFERICH, PE</p>	STANDARD PLAN FOR LIGHT STANDARD FOUNDATION (CONCRETE BARRIER, DOUBLE FACE)			SHEET 5 OF 6
	(SPECIAL DETAIL) FHWA APPROVAL	12/12/2023 PLAN DATE	R-50-H	

<p>Michigan Department of Transportation</p> <p>DEPARTMENT DIRECTOR BRADLEY C. WIEFERICH, PE</p>	STANDARD PLAN FOR LIGHT STANDARD FOUNDATION (CONCRETE BARRIER, DOUBLE FACE)			SHEET 6 OF 6
	(SPECIAL DETAIL) FHWA APPROVAL	12/12/2023 PLAN DATE	R-50-H	

SECT