

1. The intent of this plan is to provide a transition from the anchored Type F concrete barrier system to various types of concrete barrier systems (e.g. Single Slope) up to 42" (in) tall. This transition plan applies to roadside or wide median applications where the barrier transition can be impacted on the Traffic Side Only. This transition can be installed on cement concrete pavement or hot mix asphalt pavement.

2. Transition Installation Procedure:

1) Procure a segment of Type F Concrete Barrier (Standard Plan C-60.10).

2) Cut the end loops off of the Loop Bars of the Type F section located closest to the dissimilar shaped concrete barrier section.

3) Abut the two sections and align the top front edges (traffic side) of the barrier sections. (See Section C, this sheet).

4) Install the nested thrie beam rail on the traffic side, the barrier connection strap bar on the field side, and the transition shroud to secure the two barrier

5) Install the anchor pins.

3. Refer to Standard Plan C-60.10 Concrete Barrier Type F for additional details not shown on this plan.

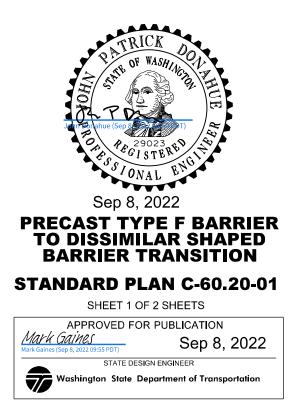
4. Refer to Standard Plan C-1a Beam Guardrail (Thrie Beam) and C-7a Thrie Beam End Sections for additional details not shown on this plan.

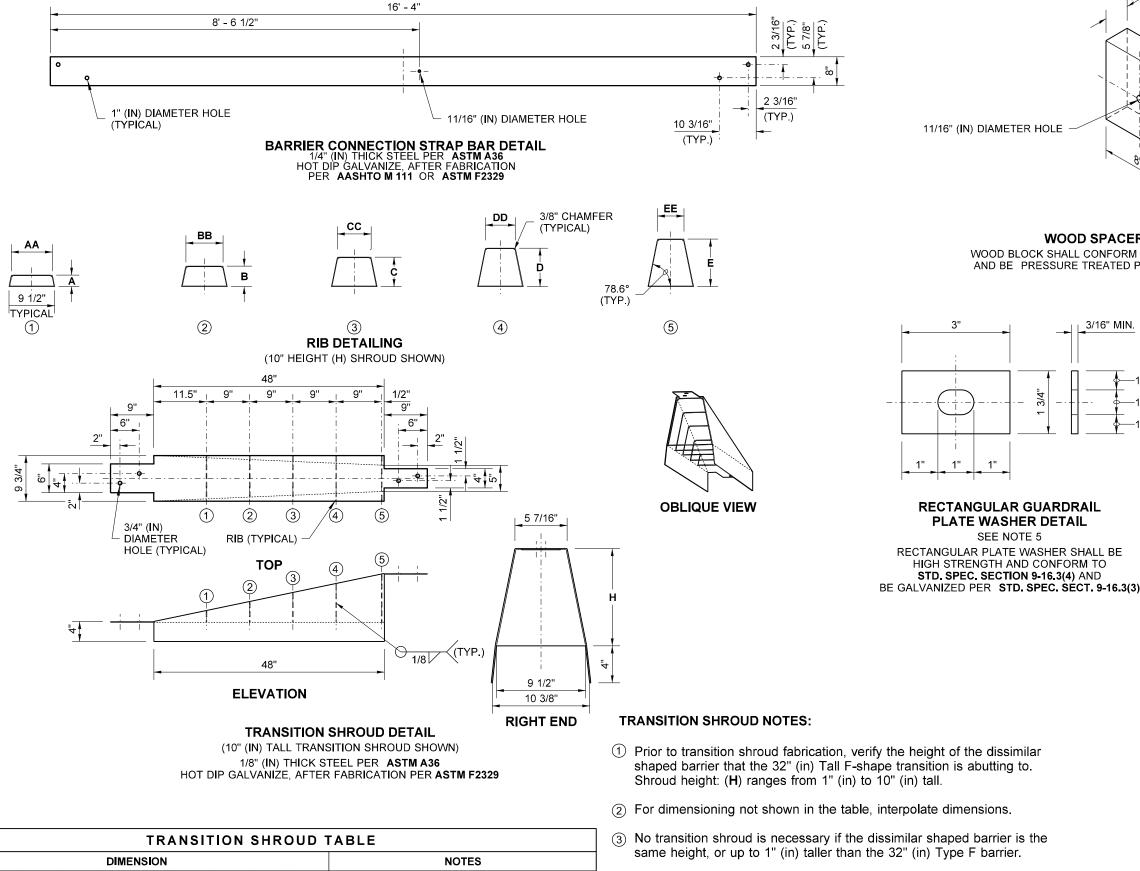
5. Install rectangular guardrail plate washers under the bolt head on upstream end and under the nut on the downstream end. See sheet 2 for details.

6. Lap three beam and three beam end section in direction of adjacent traffic. The upstream thrie beam end section is installed on top of thrie beam rail, and the downstream thrie beam end section is installed under thrie beam rail.

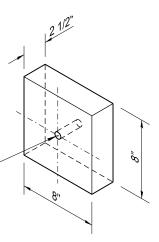
7. Embed anchor bolt 5" (in) into barrier and secure to barrier with Type I epoxy. Core drill 1 1/2" (in) diameter holes into top of barriers.

8. For barrier transition pinning details, See Standard Plan C-60.70.



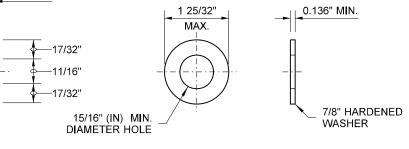


(H)	DIMENSION									NOTES	
	Α	AA	В	BB	С	CC	D	DD	E	EE	
2"	1/2"	7 13/16"	7/8"	7"	1 1/4"	6 1/4"	1 5/8"	5 1/2"	1 7/8"	4 3/4"	THE TOP AND SIDES OF THE SHROUD MAY BE FABRICATED FROM SEPARATE PLATES AND WELDED TOGETHER AT THE JOINTS, OR MADE FROM A SINGLE PLATE/SHEET AND BENT (BEND RADII - 1/4" (IN) MAX.) OR MADE WITH A COMBINATION OF BOTH METHODS.
4"	1"	7 13/16"	1 3/4"	7"	2 1/2"	6 1/4"	3 1/4"	5 1/2"	3 7/8"	4 3/4"	
6"	1 3/8"	7 13/16"	2 1/2"	7"	3 5/8"	6 1/4"	4 3/4"	5 1/2"	5 7/8"	4 3/4"	
8"	1 7/8"	7 13/16"	3 3/8"	7"	4 7/8"	6 1/4"	6 3/8"	5 1/2"	7 7/8"	4 3/4"	
10"	2 3/8"	7 13/16"	4 1/4"	7"	6 1/8"	6 1/4"	8"	5 1/2"	9 7/8"	4 3/4"	



WOOD SPACER BLOCK DETAIL WOOD BLOCK SHALL CONFORM TO STD. SPEC. SECTION 9-09.2(2). AND BE PRESSURE TREATED PER STD. SPEC. SECTION 9-09.3(1)

3/16" MIN.



ROUND WASHER DETAIL ROUND WASHER SHALL BE HIGH STRENGTH AND CONFORM TO STD. SPEC. SECTION 9-16.3(4) AND GALVANIZED PER STD. SPEC. SECT. 9-16.3(3)



PRECAST TYPE F BARRIER TO DISSIMILAR SHAPED BARRIER TRANSITION

STANDARD PLAN C-60.20-01

SHEET 2 OF 2 SHEETS

APPROVED FOR PUBLICATION

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B.) Single-Slope Concrete Barrier (Precast) ~ See Standard Plan C-70.10 for details C.) Single-Slope Concrete Barrier (CIP) ~ See Standard Plan C-80.10 for details D.) High Performance (HP) Single-Sloped Concrete Bridge Barrier ~ See Bridge Standard Drawings E.) High Performance (HP) F-Shape Bridge Barrier ~ See Bridge Standard Drawings

(4) Barriers that Type F barrier may transition to include but are not limited to:

A.) Concrete Barrier Type 2 ~ See Standard Plan K-80.32 for details

