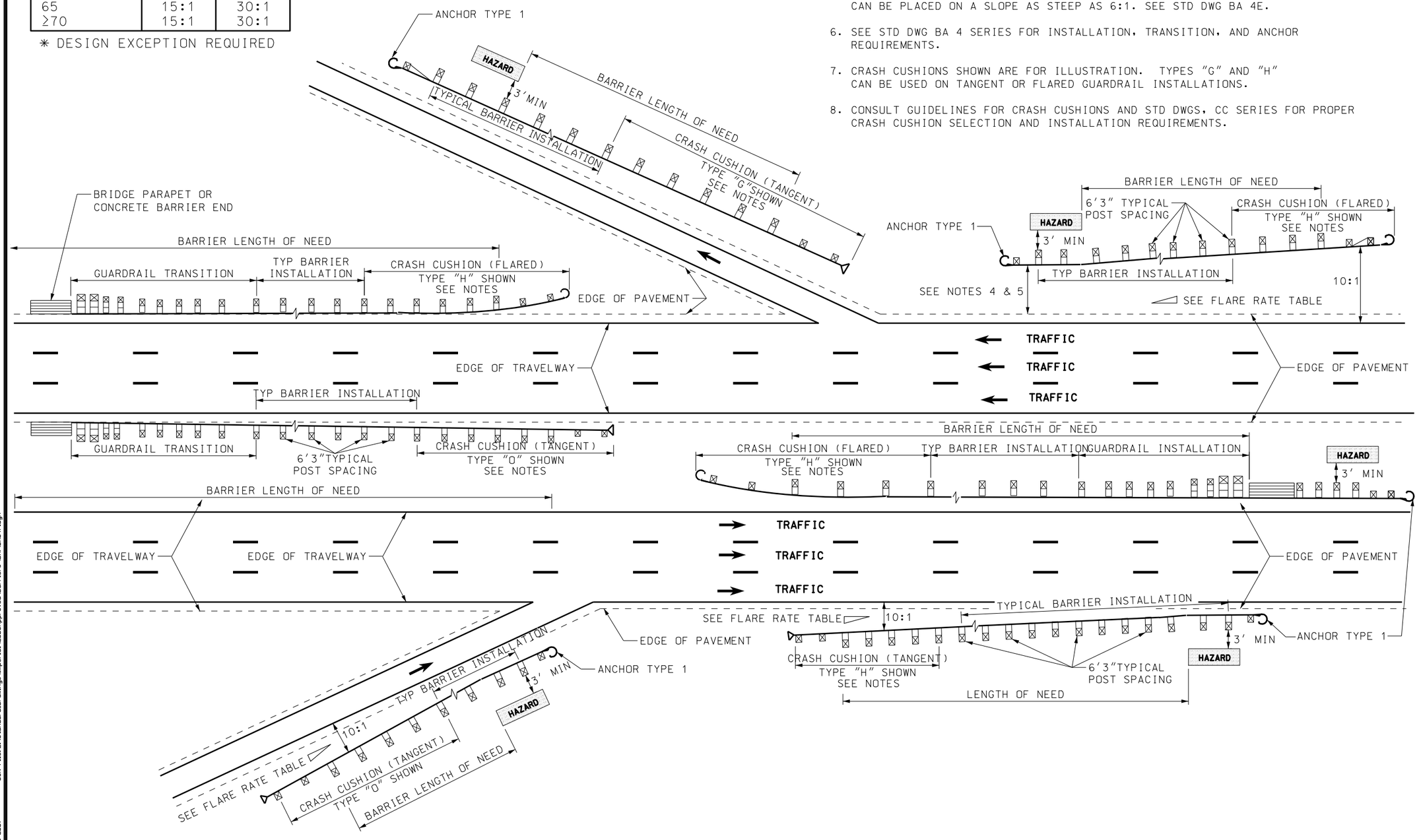
FLARE RATE TABLE		
SPEED (MPH)	RATE OUTSIDE SHY LINE	* RATE INSIDE SHY LINE
≤35	7:1	13:1
40	8:1	16:1
45	10:1	18:1
50	11:1	21:1
55	12:1	24:1
60	14:1	26:1
65	15:1	30:1
≥70	15:1	30:1

* DESIGN EXCEPTION REQUIRED

NOTES:

1. CRASH CUSHION REQUIRED WHEN BARRIER END OR PARAPET END IS WITHIN 1.2 TIMES AASHTO ROADSIDE DESIGN GUIDE CLEAR ZONE REQUIREMENTS.
2. CONSIDER USING BURIED TERMINAL END, UDOT STD DWG BA 4I OR BA 4J WHEN CONDITIONS PERMIT.
3. USE FLARED GUARDRAIL INSTALLATIONS WHEN POSSIBLE.
4. USE SLOPES NO STEEPER THAN 10:1 FROM THE EDGE OF TRAVEL LANE TO THE FACE OF THE GUARDRAIL WHEN PLACED WITHIN 12′ OF THE TRAVEL LANE.
5. WHEN PLACED 12′ OR MORE FROM THE EDGE OF PAVEMENT, GUARDRAIL INSTALLATION CAN BE PLACED ON A SLOPE AS STEEP AS 6:1. SEE STD DWG BA 4E.
6. SEE STD DWG BA 4 SERIES FOR INSTALLATION, TRANSITION, AND ANCHOR REQUIREMENTS.
7. CRASH CUSHIONS SHOWN ARE FOR ILLUSTRATION. TYPES "G" AND "H" CAN BE USED ON TANGENT OR FLARED GUARDRAIL INSTALLATIONS.
8. CONSULT GUIDELINES FOR CRASH CUSHIONS AND STD DWGS, CC SERIES FOR PROPER CRASH CUSHION SELECTION AND INSTALLATION REQUIREMENTS.



REVISIONS			
NO.	DATE	APPR.	REMARKS

UTAH DEPARTMENT OF TRANSPORTATION
STANDARD DRAWINGS FOR ROAD AND BRIDGE CONSTRUCTION
SALT LAKE CITY, UTAH

RECOMMENDED FOR APPROVAL — JAN.01.2008 DATE
CHAIRMAN STANDARDS COMMITTEE APPROVED — JAN.01.2008 DATE
DEPUTY DIRECTOR

W-BEAM GUARDRAIL
TYPICALS
DIVIDED ROADWAYS

STANDARD DRAWING TITLE

STD DWG
BA 4F

DGN File:L:\Standard Drawings\Imperial\2008Approved\Barriers (BA)\BA04F.dgn
18-DEC-2007