CRASH CUSHION TYPE F

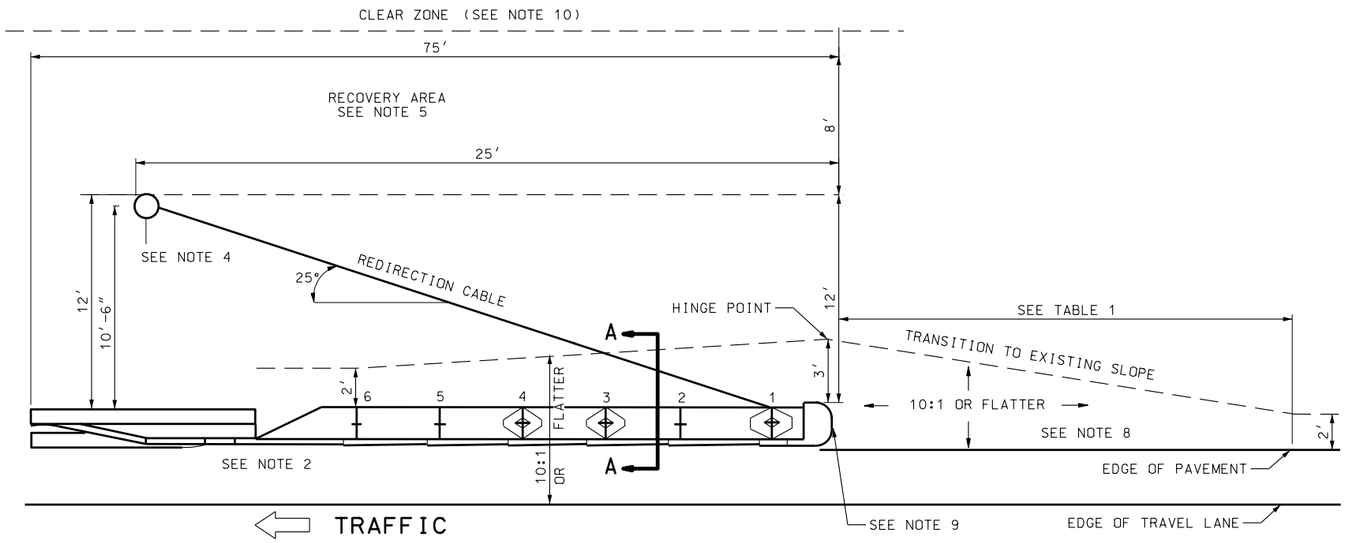
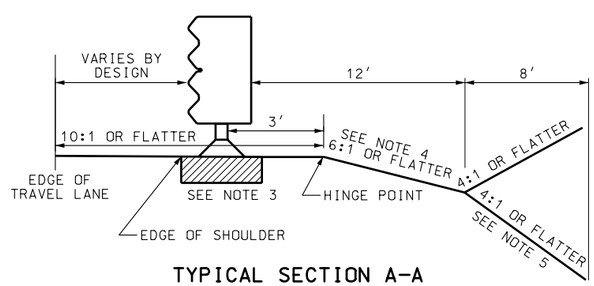


TABLE 1

SPEED MPH	TAPER	MINIMUM LENGTH FEET
LESS THAN 40	7:1	70
40 TO 55	10:1	100
60 TO 75	15:1	150



TYPICAL SECTION A-A

NOTES FOR CRASH CUSHION TYPE F

1. THE QUADTREND-350 IS MANUFACTURED BY ENERGY ABSORPTION SYSTEMS. USE MANUFACTURER'S AND UDOT'S REQUIREMENTS WHEN INSTALLING SYSTEM.
2. USE THE QUADTREND-350 WHEN A DIRECT ATTACHMENT TO A CONCRETE BARRIER OR BRIDGE PARAPET IS REQUIRED AND THERE IS LESS THAN 125 FEET OF LONGITUDINAL SPACE IN FRONT OF THE HAZARD.
3. INSTALL CONCRETE PAD AS PER MANUFACTURER'S REQUIREMENTS.
4. PLACE CABLE ANCHOR FOUNDATION IN SUCH A MANNER THAT THE REDIRECTING CABLE LAYS 6:1 OR FLATTER ON TOP OF THE GROUND, AND THE FOUNDATION WITH THE CABLE ANCHOR BRACKET, WHEN ATTACHED TO FOUNDATION, DOES NOT EXCEED 4 INCHES ABOVE GROUND LEVEL. DO NOT BURY THE REDIRECTION CABLE. REFERENCE STD DWG SN 6, BREAKAWAY POST STUB DETAIL.
5. USE A 4:1 OR FLATTER SLOPE IN RECOVERY AREA. WHEN USED WITH A CUT SLOPE A 6:1 OR FLATTER FILL AREA 12 FT. X 25 FT. IS REQUIRED PRIOR TO THE CUT SLOPE. INCLUDE THIS AREA AS PART OF THE RECOVERY AREA.
6. CLEAR THE RECOVERY AND APPROACH AREAS OF ANY FIXED OBJECTS.
7. ATTACH SAND CONTAINERS AT POSTS 1, 3 AND 4.
8. COMPLETE ALL GRADING REQUIREMENTS PRIOR TO SYSTEM INSTALLATION.
9. INSTALL REQUIRED MARKING AS PER STD DWG CC 1.
10. MAINTAIN AASHTO CLEAR ZONE FOR SPEEDS GREATER THAN 40 MPH. DEPENDING ON SYSTEM OFFSET, CLEAR ZONE MAY EXTEND OUTSIDE OF THE RECOVERY AREA.

REVISIONS

NO.	DATE	APPR.	REMARKS
1	10/16/02	F.W.	CRASH CUSHION TYPE G - CORRECTED STD DWG CALLOUT FROM BA 2B TO BA 4A IN NOTE 6.
2	04/03/03	G.S.	REVISED CLEAR ZONE REQUIREMENT, ADDED TABLE 1, ADDED NOTE 7.

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

RECOMMENDED FOR APPROVAL — APR.24,2003 DATE

CHAIRMAN STANDARDS COMMITTEE APPROVED — APR.24,2003 DATE

DEPUTY DIRECTOR

GRADING & INSTALLATION DETAILS CRASH CUSHION TYPE F

STANDARD DRAWING TITLE

STD DWG CC 7

08-OCT-2003 DGN File:N:\Esd\Standard Drawings\Imperial\Approved\Crash Cushions (CC)\CC07.dgn