

JEB BUSH GOVERNOR 605 Suwannee Street Tallahassee, FL 32399-0450 JOSÉ ABREU SECRETARY

April 5, 2004

THIS MEMO HAS EXPIRED

MEMORANDUM NO. 04-04

(FA 4/07/04)

TO:

DISTRICT CONSTRUCTION ENGINEERS

FROM:

Brian Blanchard, State Roadway Design Engineer

Ananth Prasad, Director, Office of Construction

COPIES:

Jim Mills, Andy Keel, Duane Brautigam, Karen Byram, Owen Denman, Barrier

Systems Inc., Matthew Schindler, Cloverleaf Corporation

Gary Price

SUBJECT:

TAU-II CRASH CUSION SYSTEM

FDOT QPL S544-0026 VENDOR DRAWING

REQUIRED ADJUSTMENTS TO EXISTING TEMPORARY

INSTALLATIONS

As a result of a recent temporary installation of the TAU II system that was questioned by FDOT CEI personnel, it has come to our attention the subject drawings do not address the proper installation of the TAU II system using the Compact Backstop with an Asphalt Backstop Assembly on an asphalt foundation to shield the end of a temporary barrier wall. Under this scenario, there is an approximate 12" gap between the TAU II end panel and the approach end of the temporary barrier wall being shielded. The position of the Asphalt Backstop Assembly prevents the end of the temporary barrier wall from being installed any closer to the crash cushion system.

To address this, Barrier Systems, Inc. has provided two drawings that are attached to this memo. Drawing No. B040316-FL shows a relatively simple field adjustment that can be made on existing installations subject to unidirectional traffic on one side only. The adjustment consists of shifting the end of the temporary barrier wall away from the traffic side a minimum 12" from the traffic side edge of the Asphalt Backstop Assembly plate. This shift is necessary to provide adequate shielding of the barrier wall end for side impacts immediately upstream of the barrier wall end. Drawing No. B040316 is approved for use on projects currently under construction

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subject to the following conditions:

- 1. The installation must be an existing temporary TAU II system using a Compact Backstop with the Asphalt Backstop Assembly on an asphalt foundation, installed prior to the date of this memo.
- 2. The installation is subject to unidirectional traffic on one side only.
- 3. There must be sufficient space to shift the barrier the required distance.

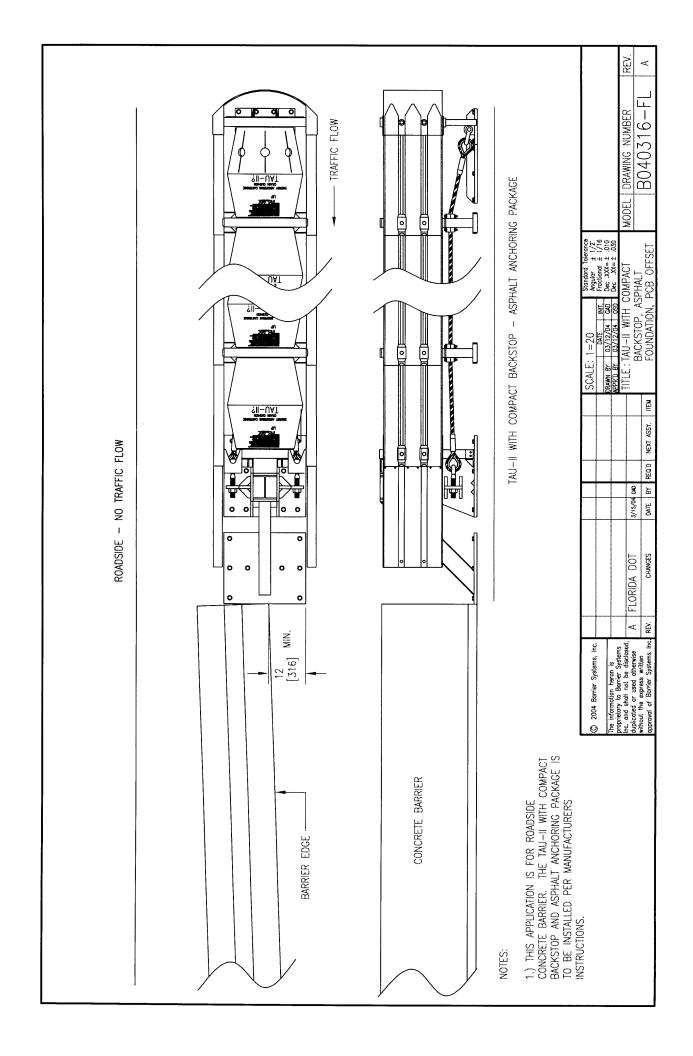
Drawing No. B040316 is not to be used for units installed after the date of this memo. Temporary Tau II units using a Compact Backstop with the Asphalt Backstop Assembly on an asphalt foundation installed after the date of this memo shall use only Drawing No. B040301 described below or subsequent approved drawings on the QPL.

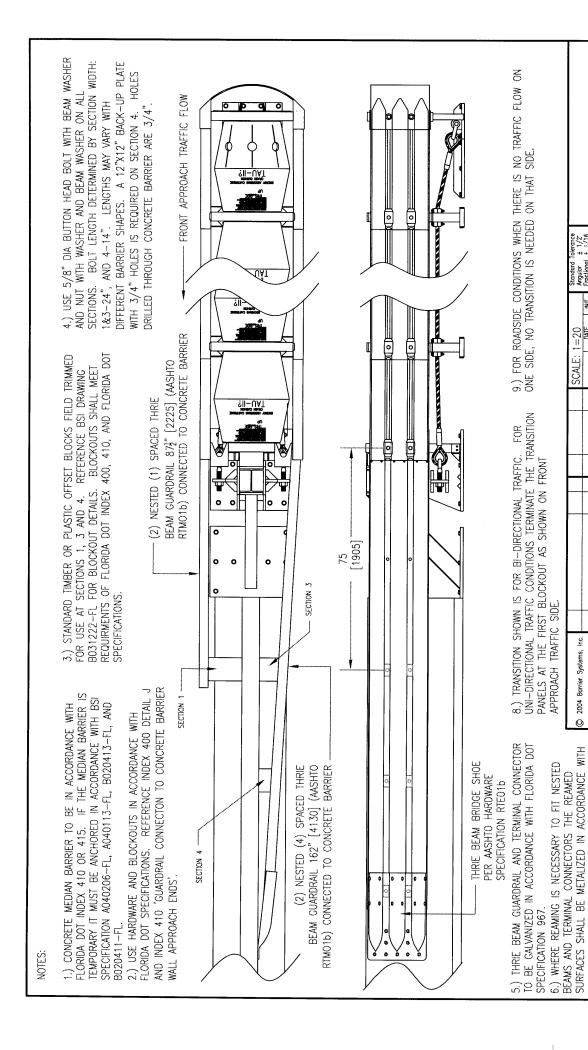
Drawing No. B040301 shows details for installing the TAU II system using the Compact Backstop with the Asphalt Backstop Assembly on an asphalt foundation to shield the end of a barrier wall. This drawing provides for thrie-beam extensions on the TAU II system that are connected to the barrier wall end unit being shielded. The details address unidirectional conditions as well as details for transition requirements for bi-direction or reverse direction hits. This drawing is approved for use when using the Compact Backstop with the Asphalt Backstop Assembly on an asphalt foundation. Existing installations using the Compact Backstop with the Asphalt Backstop Assembly on an asphalt foundation subject to traffic on both sides and/or reverse direction hits must be retrofitted in accordance with the details in this drawing. This drawing will soon be added to the QPL web site. Alternatively, the system can be reinstalled on an asphalt foundation using the PCB Backstop in accordance with QPL Drawing Number B020413 instead of using the Compact Backstop. Barrier Systems, Inc has submitted additional options for installation that are currently under review. These will be posted on the QPL web site when approved.

We are forwarding the attached drawings to you for distribution to field construction engineering and inspection personnel to follow up on any existing improper installations. Corrections of improper installations as described above are to be made immediately and without cost to the Department. Barrier Systems, Inc. has agreed to work with contractors currently under contract with the Department as necessary to make these corrections.

Please contact Andy Keel, 850-414-4334, Suncom 994-4334, if you have any questions.

BB/AP/ww Attachments





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B040301-FI

MODEL | DRAWING NUMBER

TILE: TRANSITION, TAU-II WITH COMPACT BACKSTOP, ASPHALT FOUNDATION

1

REQ'D NEXT ASSY.

3/15/04 GAD DATE

FLORIDA DOT CHANGES

<< REV.

The information heron is proprietory to Barrier Systems linc, and shall not be disclosed, duplicated or used otherwise without the express written apparent of Barrier Systems inc. Fi

ALL HARDWARE AND FASTENERS TO BE GALVANIZED ACCORDANCE WITH FLORIDA DOT SPECIFICATION 967.

FLORIDA DOT INDEX 400.

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Standard Tolerance
Angular ± 1/7.
Fractional ± 1/16
Dec .XXX= ± .010
Dec .XX= ± .030

SCALE: 1=20

BRAWN BY 03/1/04
APPRO BY 03/1/04