

**EXHIBIT F**

**TUBULAR MARKER APPROVED PRODUCTS LIST**

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**Flexible Plastic Delineators**

Effective Date: February 22, 2010

**Soil Anchored Flexible Delineator Posts**

Source	Product	Model #	Approval Number
Carsonite (C421A)	Survivor	CDS30	1387336A
Carsonite	Greenline	CDGU	1387337A
Pexco DavidsonTraffic Control Products formerly Filtronia Extrusion, Inc (D151A)	Flexi-Guide	FG-500 Series	1387338A
Safe-Hit (S426A)	Safe-Hit	SH254GP	1387339A

**Surface Mounted Flexible Tubular Markers**

Source	Product	Model #	Approval Number
Carsonite	Channelizer**	SDC20	1387340A
Safe-Hit	Safe-Hit	SH336SMA	1387341A
Safe-Hit	Durapost	730102 or 730102Y	1387342A
Impact Recovery Systems	Delineator Post	TP-36F with 101-NS base	1387343A
Pexco DavidsonTraffic Control Products formerly Filtronia Extrusion, Inc	Flexi-Guide	FG300UR	1387344A
Pexco DavidsonTraffic Control Products formerly Filtronia Extrusion, Inc	Flexi-Guide	FG300EFX	1387345A

\*\* Approved for construction zone temporary traffic control use Only

**Guardrail Mounted Flexible Delineator Posts**

Source	Product	Model #	Approval Number
Pexco DavidsonTraffic Control Products formerly Filtrona Extrusion, Inc.	Flexi-Guide	FG-527	1387346A
Flexstake	Guardrail Barrier Delineator	GR101 (27-in length)	1390164A
New Direction Manufacturing	Guardrail Delineator	NDM27 (W or Y)	1390165A
Carsonite	Guardrail Delineator	CGR4027	1387347A

## Notes:

- Soil anchored flexible delineator posts shall be installed with either a u-channel anchor or round tubular anchor crimped on the end, as supplied by the manufacturer.
- Soil anchored flexible delineator posts shall be installed in accordance with the manufacturers instructions.
- Anchors and posts shall be installed plumb and correctly oriented to traffic.
- Soil anchored flexible delineator posts shall be installed approximately two (2) feet from the edge of the paved shoulder. Soil anchored flexible delineator posts and guardrail mounted flexible delineator posts shall be installed at the spacing specified in the plans, or in accordance with the Standard Details Book, Volume II.
- Soil Anchored Flexible Delineator Posts shall be either white or yellow, as specified. Soil Anchored Flexible Delineator Posts shall be manufactured to a minimum of fifty-four (54) inches in length, and may be flat, semi-flat (half or partially oval shaped), or round. At the reflective portion of the post, soil anchored flexible delineator posts shall be flat or semi-flat (half or partially oval shaped), and shall be of a consistent cross-section.
- Soil anchored flexible delineator posts shall accommodate front and back, as specified, a three (3) inch wide by nine (9) inch tall piece of white, fluorescent-yellow, or red sheeting. The type sheeting used shall be Type ASTM-VII or Type ASTM-IX, reboundable or non-reboundable, as recommended by the manufacturer. Posts shall be supplied with sheeting pre-installed by the manufacturer. The bottom edge of the sheeting shall be installed no less than forty-three (43) inches from the bottom of the post.
- U-channel anchored posts shall utilize a eighteen (18) inch minimum length piece of u-channel. Round tubular anchor mounted posts shall utilize a eighteen (18) inch minimum length galvanized round steel anchor.
- Surface mounted flexible tubular marker bases shall be adhered to the roadway, at the locations indicated, with either mechanical anchors (if compatible), or a hot-laid bituminous, epoxy, or thermoplastic material such as Super Bundy pads, manufactured by Flint Trading of Thomasville, NC, per the manufacturers recommendations.
- The posts shall be inserted into the bases and attached in accordance to the recommendations of the manufacturer of the system supplied.
- Cold laid mastic type adhesive pads may only be used with markers applied for temporary use, if allowed by the manufacturer.
- Surface mounted flexible tubular markers shall be located as specified in the Contract plans.
- Surface Mounted Flexible Tubular Markers shall be either white or yellow, as specified. Surface Mounted Flexible Tubular Markers shall be manufactured to a minimum of thirty-six (36) inches in length.
- Surface Mounted Flexible Tubular Markers shall accommodate, as specified, a six (6) inch band of white or yellow sheeting. The Type sheeting used shall be reboundable Type ASTM-III High Intensity Grade. Posts shall be supplied with sheeting pre-installed by the manufacturer. The sheeting shall be wrapped completely around the post, with the bottom edge of the sheeting no less than twenty-eight (28) inches from the bottom of the post. The posts shall be round for their entire length and of a constant outside diameter at the reflective portion of the post.
- Hardware or other metal components shall be of the size and length recommended and/or supplied by the manufacturer, and shall be manufactured of stainless, zinc plated, or galvanized steel.
- Guardrail mounted flexible delineator posts shall be mounted to the guardrail support posts, in accordance with the Standard Detail shown in the plans.
- Guardrail Mounted Flexible Delineator Posts shall be either white or yellow, as specified. Guardrail Mounted Flexible Delineator Posts shall be manufactured to a minimum of twenty-four (24) inches in

length, and may be flat, semi-flat (half or partially oval shaped), or round. At the reflective portion of the post, Guardrail Mounted Flexible Delineator Posts shall be flat or semi-flat (half or partially oval shaped), and shall be of a consistent cross-section.

-Guardrail Mounted Flexible Delineator Posts shall accommodate front and back, as specified, a three (3) inch wide by nine (9) inch tall piece of white, fluorescent-yellow, or red sheeting. The type sheeting used shall be Type ASTM-VII or Type ASTM-IX, reboundable or non-reboundable, as recommended by the manufacturer. Posts shall be supplied with sheeting pre-installed by the manufacturer.

-The posts shall be designed and manufactured to be attached to the guardrail post with the top edge of the sheeting twenty (20) inches above the top of the block-out, while simultaneously allowing the post to overlap the guardrail post a minimum of four (4) inches.

-Fender washers, lag bolts, and self-driving hex screws used for attachment shall be stainless steel.

-White soil anchored flexible delineator posts and guardrail mounted flexible delineator posts with white sheeting on the front and white or red sheeting on the back, as specified, shall be installed to supplement white edge lines. Yellow soil anchored flexible delineator posts and guardrail mounted flexible delineator posts with fluorescent-yellow sheeting on the front and fluorescent-yellow or red sheeting on the back, as specified, shall be installed to supplement yellow edge lines. White surface mounted flexible tubular markers with white sheeting, as specified, shall be installed to supplement white lane line or edge line markings. Yellow surface mounted flexible tubular markers with yellow sheeting, as specified, shall be installed to supplement yellow edge line markings.

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