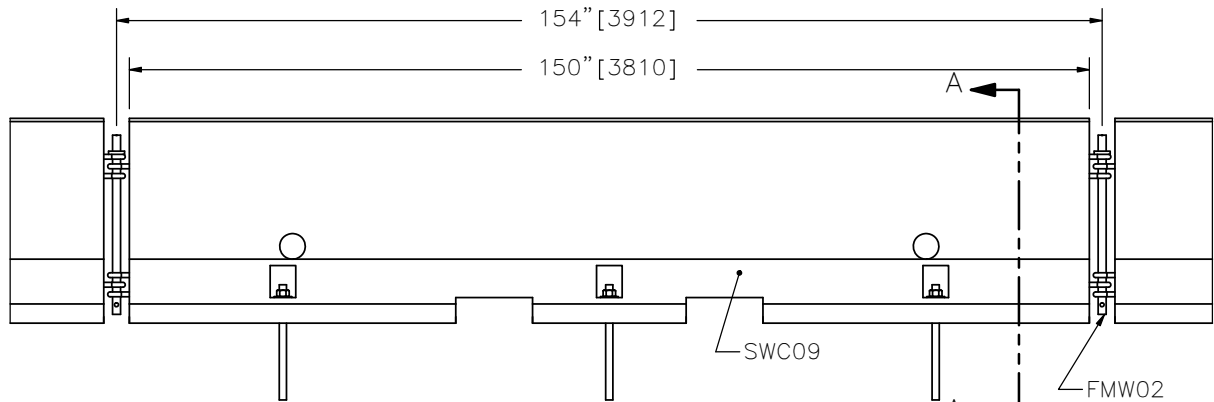
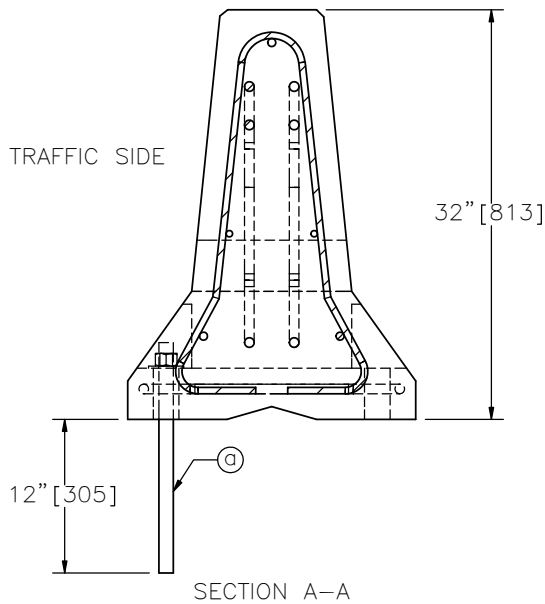


PLAN

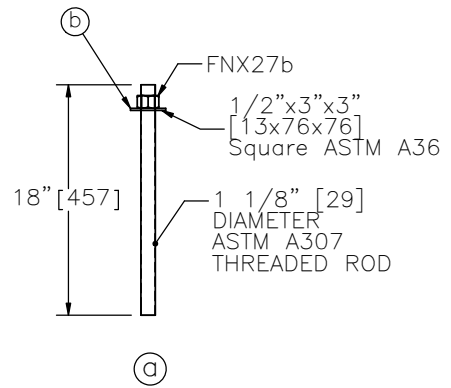


ELEVATION



TRAFFIC SIDE

SECTION A-A



NOTE: THROUGH BOLTING IS ALSO AN ACCEPTABLE ANCHORING OPTION.

BOLTED-DOWN PORTABLE F-SHAPE CONCRETE BARRIER



SWC11

SHEET NO.

DATE:

1 of 4

10/22/2008

INTENDED USE

Bolted-Down Portable F-Shape Concrete Barrier is a non-proprietary system and is to be used as a work-zone barrier to protect traffic and workers. Bolted-Down Portable F-Shape Concrete Barrier should be used in locations where a maximum dynamic deflection of 11 1/4" [287] or less is acceptable and where a working width of 21"[534] is provided. The system should be placed with a minimum distance of 1" [25] between the back face of the concrete barrier and the edge of the bridge deck. Bolted-Down Portable F-Shape Concrete Barrier was designed for use on a concrete bridge deck with a minimum compressive strength of 4,000 psi [28 MPa] and should not be used on a bridge deck with an asphalt overlay. The Bolted-Down System is intended for use with the Portable F-shape Concrete Barrier Element (SWC09) and the Portable Concrete Barrier Connector Pins with or without the retainer bolt (FMW02 or FMW03). The Bolted-Down Portable F-Shape Concrete Barrier is TL-3 NCHRP 350 accepted.

SPECIFICATIONS

Epoxy

The epoxy must meet the ASTM D695 standard for Compressive Strength, up to 14,740 psi [101.6 MPa] for a 7-day cure, the ASTM D638 standard for Tensile Strength, up to 7,400 [51 MPa] for Standard Set curing, and the Bond Strength with a dry cure should be at least 3,000 psi [20.7 MPa] for a steel to concrete bond.

Galvanization

The threaded rod should be zinc-coated according to AASHTO M111 (ASTM A123) except when corrosion resistant steel is requested.

COMPONENTS

Unit Length = 154" [3912]

DESIGNATOR	COMPONENT	SYSTEM	NUMBER
FNX27b	Heavy Hex nut		3
-----	Square washer		3
FMW02	Portable Concrete Barrier Connector Pin		1
FMW03	Portable Concrete Barrier Connector Pin with Retaining Bolt		1
SWC09	F-Shape Portable Concrete Barrier Element		1
-----	Threaded rod		3

ACCEPTANCE

FHWA Acceptance Letter B-122, October 2, 2003.

BOLTED-DOWN PORTABLE F-SHAPE CONCRETE BARRIER

SWC11



SHEET NO.

DATE:

2 of 4

10/22/2008

REFERENCES

Polivka, K.A., Faller, R.K., Rohde, J.R., Holloway, J.C., Bielenberg, B.W., and Sicking, D.L., *Development and Evaluation of a Tie-Down System for the Redesigned F-Shape Concrete Temporary Barrier*, Final Report to the Midwest State's Regional Pooled Fund Program, Transportation Research Report No. TRP-03-134-03, Project No. SPR-3(017)- Year 13, Project Code: RPF-03-06, Midwest Roadside Safety Facility, University of Nebraska-Lincoln, August 22, 2003.

Bielenberg, R.W., Faller, R.K., Sicking, D.L., Rohde, J.R., and Reid, J.D., *Tie-Downs and Transitions for Temporary Concrete Barriers*, Paper No. 06-1276, Transportation Research Record No. 1984, Journal of the Transportation Research Board, TRB AFB20 Committee on Roadside Safety Design, Transportation Research Board, Washington D.C., January 2006.

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BOLTED-DOWN PORTABLE F-SHAPE CONCRETE BARRIER



SWC11

SHEET NO.

DATE:

3 of 4

10/22/2008

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BOLTED-DOWN PORTABLE F-SHAPE CONCRETE BARRIER

SWC11



SHEET NO.

DATE:

4 of 4

10/22/2008