

Origination Form

Proposed Revisions to a Standard Plans Index

Originator:	Turley, Joshua	Index Number:	521-428
Date:	4/18/2024	Sheet Number(s):	4
E-mail:	Joshua.Turley@dot.state.fl.us	Index Title:	TRAFFIC RAILING - (42" SINGLE-SLOPE)

Summary of the changes:

Sheet 4: Added a missing dimension to Bar 5V in the STEEL BENDING DIAGRAM

Commentary/Background:

Missing dimension added for clarity.

Other Affected Documents/Offices	Person Contacted	Affected (Yes/No)
Other Standard Plans		No
FDOT Design Manual		No
Standard Specifications		No
Basis of Estimates Manual		No
Approved Product List		No
Construction Office		No
Maintenance Office		No

Implementation

["FY-Standard Plans (Next Release)"]

10/16/2023 7:35:39 AM

CONVENTIONAL REINFORCING STEEL BENDING DIAGRAMS

BILL OF REINFORCING STEEL		
MARK	SIZE	LENGTH
P	5	7'-0"
S1	6	As Req'd.
S2	5	As Req'd.
T1 & T2	6	10'-0"
V	5	5'-9"

Length as Required

BARS 6S1 & 5S2

11 1/2"

7 1/4"

4 1/4"

Bend Inside Dia. = 3"

3'-3 1/2"

Field Bend (as required to maintain cover)

Field Cut & Discard

Varies (2'-5 1/2" Min.)

STIRRUP BAR 5P

TRANSITION STIRRUP BAR 5P
To Be Field Cut (10 of each required per Railing End Transition)

REINFORCING STEEL NOTES:

1. All bar dimensions in the bending diagrams are out to out.

2. All reinforcing steel at the open joints shall have a 2" minimum cover.

3. Bars 6S1 may be continuous or spliced at the construction joints. Lap splices for Bars 6S1 and 5S2 shall be a minimum of 3'-0" and 2'-2", respectively.

4. The Contractor may utilize deformed WWR when approved by the Engineer. WWR must meet the requirements of Specification Section 931.

ROADWAY CROSS-SLOPE

LOW GUTTER

HIGH GUTTER

	ØB	ØB
0% to 2%	101°	101°
2% to 6%	98°	104°
6% to 10%	95°	107°

ØA and ØB shall be 90° if Contractor elects to place Railing perpendicular to the Deck.

6'-8"~Bars 6T1

6'-8"~Bars 6T2

3'-2"~Bars 6T1

3'-2"~Bars 6T2

Ø = 7.1° for Bars 6T1

Ø = 1.8° for Bars 6T2

ADDED: Dimension

TRANSITION BARS 6T1 & 6T2
(2~Bars 6T1 & 3~Bars 6T2 required per Railing End Transition)

5 1/8"

2'-3"

10 1/2"

11"

1'-8"

Contractors Option

45°

6"

1'-8"

10 1/2"

2'-3"

6"

5"

STIRRUP BAR 5V

END STIRRUP BAR 5V
To Be Field Cut and Lapped

Pre-cured Silicone Sealant (4" wide)

6"

2"

DETAIL "C" - SECTION AT INTERMEDIATE OPEN JOINT

INTERMEDIATE JOINT SEAL NOTES:

1. At Intermediate Open Joints, seal the lower 6" portion of the open joint with Pre-cured Silicone Sealant in accordance with Specification Section 932.

2. Apply sealant prior to any Class V finish coating and remove all curing compound and loose material from the surface prior to application of bonding agent.

3. The cost of the Pre-cured Silicone Sealant shall be included in the Contract Unit Price for the Traffic Railing.

45°

45°

3/8"

Paint Recessed Surfaces Black

SECTION THRU RECESSED "V" GROOVE TO FORM INSCRIBED LETTERS AND FIGURES

ESTIMATED TRAFFIC RAILING QUANTITIES		
ITEM	UNIT	QUANTITY
Concrete	CY/LF	0.143
Reinforcing Steel	LB/LF	39.34

Note:
The estimated railing quantities are based on a 2% deck cross slope; railing on low side of deck.

LAST REVISION

11/01/17

11/01/24

DESCRIPTION:

FDOT

FY 2024-25

STANDARD PLANS

TRAFFIC RAILING - (42" SINGLE-SLOPE)

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SHEET

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ROADWAY CROSS-SLOPE	LOW GUTTER	HIGH GUTTER
	ØB	ØB
0% to 2%	101°	101°
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ØA and ØB shall be 90° if Contractor elects to place Railing perpendicular to the Deck.

Length as Required

BARS 6S1 & 5S2

11½"

7¼"

4¼"

Bend Inside
Dia. = 3"

3'-3½"

Field Bend
(as required
to maintain
cover)

Varies
(2'-5½" Min.)

Field Cut &
Discard

STIRRUP BAR 5P

TRANSITION STIRRUP BAR 5P
To Be Field Cut (10 of each required
per Railing End Transition)

6'-8"~Bars 6T1

6'-8"~Bars 6T2

3'-2"~Bars 6T1

3'-2"~Bars 6T2

Ø = 7.1° for Bars 6T1

Ø = 1.8° for Bars 6T2

TRANSITION BARS 6T1 & 6T2
(2~Bars 6T1 & 3~Bars 6T2 required
per Railing End Transition)

5⅛"

9"

45°

Contractors
Option

2'-3"

1'-8"

10½"

11"

STIRRUP BAR 5V

END STIRRUP BAR 5V
To Be Field Cut
and Lapped

6'-8"~Bars 6T1

6'-8"~Bars 6T2

3'-2"~Bars 6T1

3'-2"~Bars 6T2

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LETTERS AND FIGURES

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LAST
REVISION
11/01/24

REVISION

DESCRIPTION:

FDOT

FY 2025-26
STANDARD PLANS

TRAFFIC RAILING - (42" SINGLE-SLOPE)

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