
ORIGINATION FORM

Proposed Revisions to a Standard Plans Index
(Please provide all information — Incomplete forms will be returned)

Contact Information:

Date: January 14, 2020

Originator: Cheryl Hudson

Phone: 414-5332

Email: cheryl.hudson@dot.state.fl.us

Standard Plans:

Index Number: 450-452

Sheet Number (s): ALL

Index Title: 15" Florida Slab Beam

Summary of the changes:

NEW Index

Commentary / Background:

Changing from Developmental SP to SP

Other Affected Offices / Documents: (Provide name of person contacted)

Yes	No	
☐	☒	Other Standard Plans –
☐	☒	FDOT Design Manual –
☒	☐	Basis of Estimates Manual – Change from DEV
☒	☐	Standard Specifications – Specification 450 update
☐	☒	Approved Product List –
☐	☒	Construction –
☐	☒	Maintenance –

Origination Package Includes:

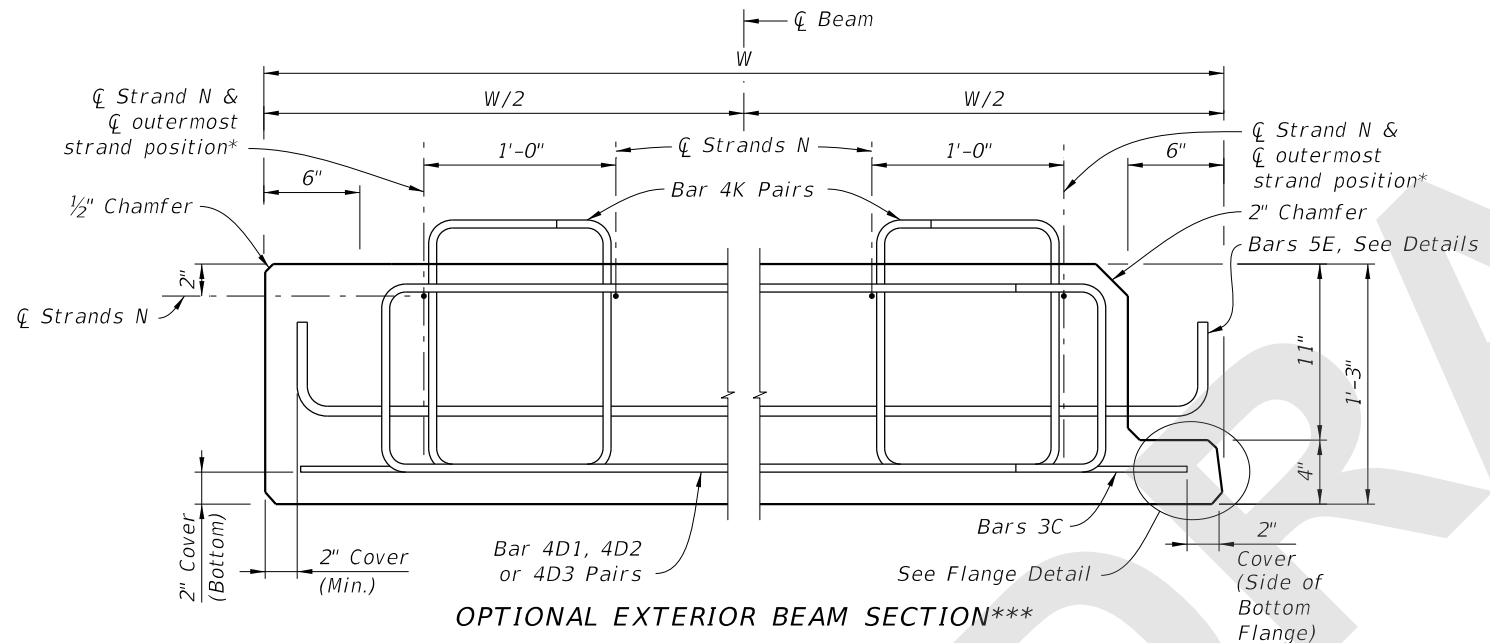
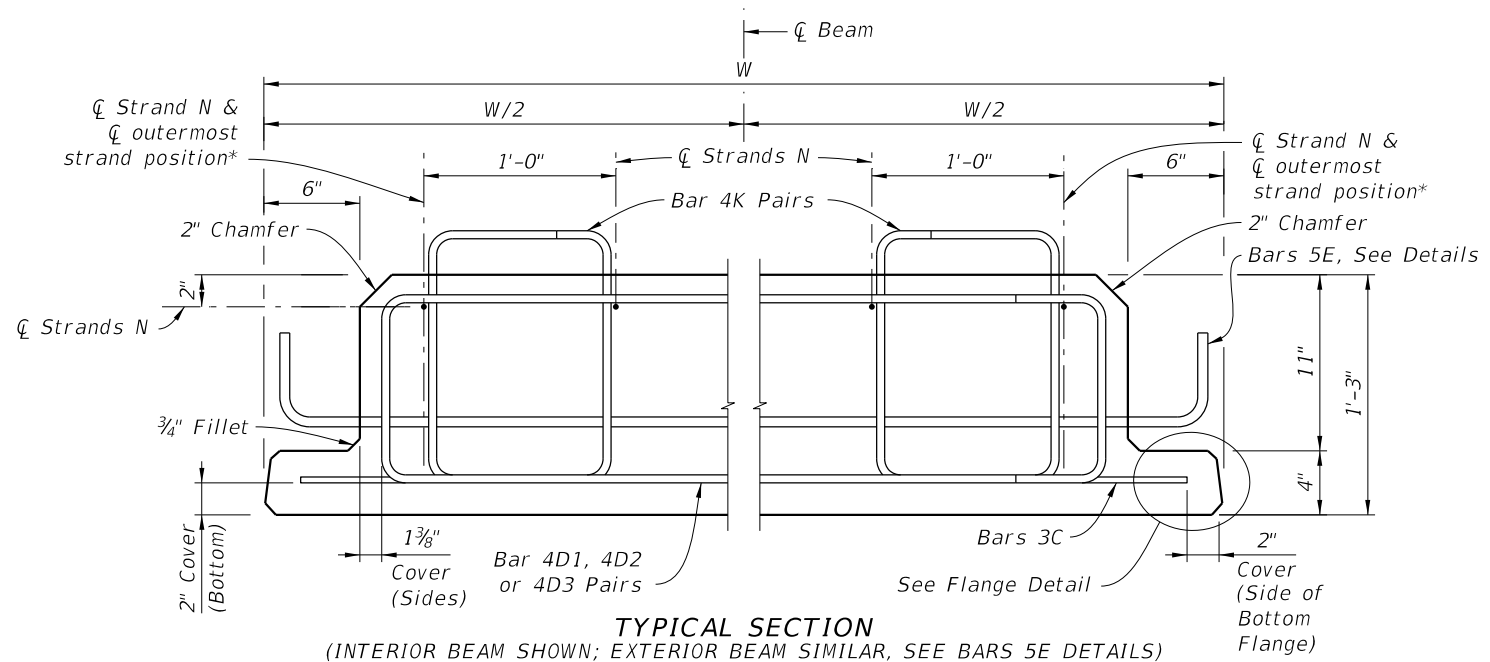
(Email or hand deliver package to Rick Jenkins)

Yes	N/A	
☐	☒	Redline Mark-ups
☐	☒	Proposed Standard Plan Instruction (SPI)
☐	☒	Revised SPI
☐	☒	Other Support Documents

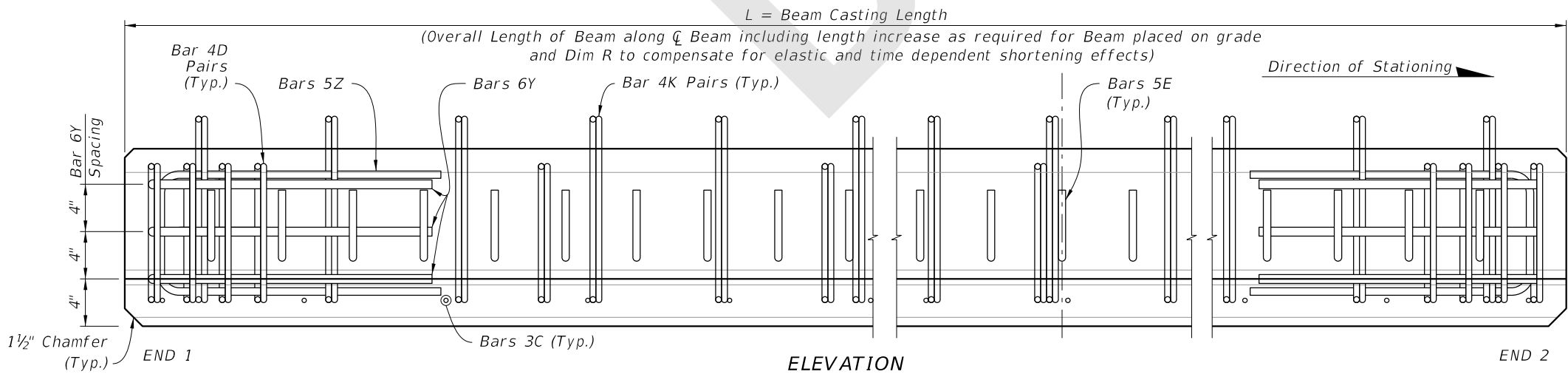
Implementation:

- ☐ Design Bulletin (Interim)
- ☐ DCE Memo
- ☐ Program Mgmt. Bulletin
- ☒ FY-Standard Plans (Next Release)

Contact the Roadway Design Office for assistance in completing this form

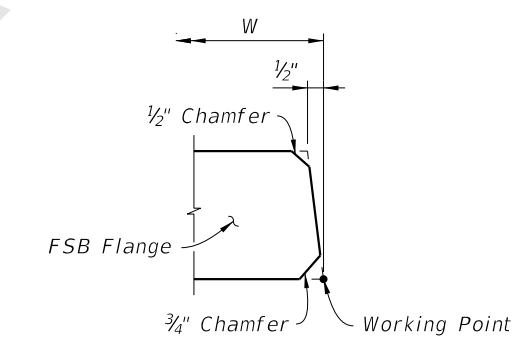
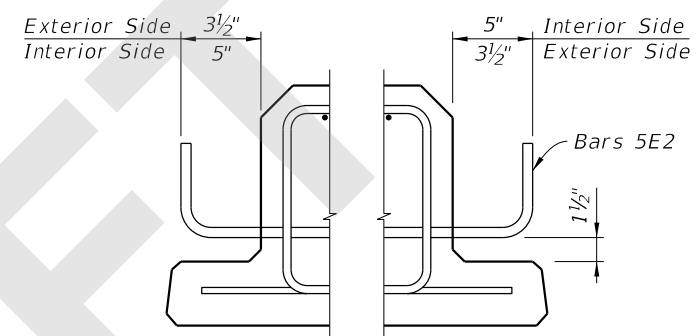


*** At the Contractor's option, the Optional Exterior Beam Section may be used.



NOTES:
Work this Index with Index 450-450 and Florida Slab Beams - Table of Variables in Structures Plans.
For Dimensions C, D, E, L, R, W & Y and Angle θ , see Florida Slab Beam - Table of Variables in Structures Plans.
For referenced notes, see Index 450-450, Sheet 1.

* For ϕ of outermost strand positions, see corresponding Strand Pattern on Florida Slab Beams - Table of Variables in Structures Plans.
** At the Contractor's option, the Detail as shown for Interior Beams may be used for Exterior Beams and the Bars 5E field bent on the exterior side of the Beam to provide the specified cover to the coping line.



BILL OF REINFORCING STEEL FOR ONE BEAM ONLY

MARK	SIZE	NOTE NUMBERS	NUMBER REQUIRED	LENGTH (NOTE 1)
C	3		See Table	Varies
D1	4	6	10 (End 1)	Varies
D2	4	6	10 (End 2)	Varies
D3	4		See Table	Varies
E1	5	7	See Table	Varies
E2	5	7	See Table	Varies
K	4		See Table	2'-8"
N	See Note 3	3	4	Varies
Y1	6	6	3 (End 1)	Varies
Y2	6	6	3 (End 2)	Varies
Z	5		6	4'-10 1/2"

BENDING DIAGRAMS (See Note 1)

BARS 3C
 $C = W - 4 \frac{1}{2}"$
 Location of Field Cut: $C/2$ from each end.
 Field Cut Bars 3C

STIRRUP BARS 4D1, 4D2 & 4D3
 $D = (W/2) / \sin \theta$
 $D = W/2$
 2" ϕ (Typ.)
 1'-0"

STIRRUP BARS 4K
 8"
 2" ϕ (Typ.)
 1'-3 3/4"

STIRRUP BARS 5Z
 $Y = (W - 1'-4 \frac{1}{2}") / \sin \theta$
 2'-0"
 10 1/2"
 2 1/2" ϕ (Typ.)
 180° - θ

BARS 6Y1 & 6Y2
 $E = W - 2"$
 $E = W - 3 \frac{1}{2}"$
 E/2
 E/2
 Location of Field Cut: $E/2$ from each end.
 2 1/2" ϕ (Typ.)
 6"

STIRRUP BARS 5E1 & 5E2
 Field Cut Bars 5E

SDATES \$TIMES