

# ORIGINATION FORM

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

## Contact Information:

Date: August 22, 2019  
Originator: Cheryl Hudson  
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## Standard Plans:

Index Number: 450-010  
Sheet Number (s): 2  
Index Title: Bridge Approach Expansion Joint Concrete  
Pavement



## Summary of the changes:

Removed Insert Detail

## Commentary / Background:

Intermediate diaphragms are typically not required; when required inserts for intermediate diaphragms should be shown on the shop drawings.

## Other Affected Offices / Documents: (Provide name of responsible personnel)

- | Yes                      | No                                  |  |
|--------------------------|-------------------------------------|--|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Other Standard Plans –                 |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | FDOT Design Manual –                   |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Basis of Estimates Manual –            |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Standard Specifications – Andre Pavlov |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Approved Product List –                |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Construction –                         |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Maintenance –                          |

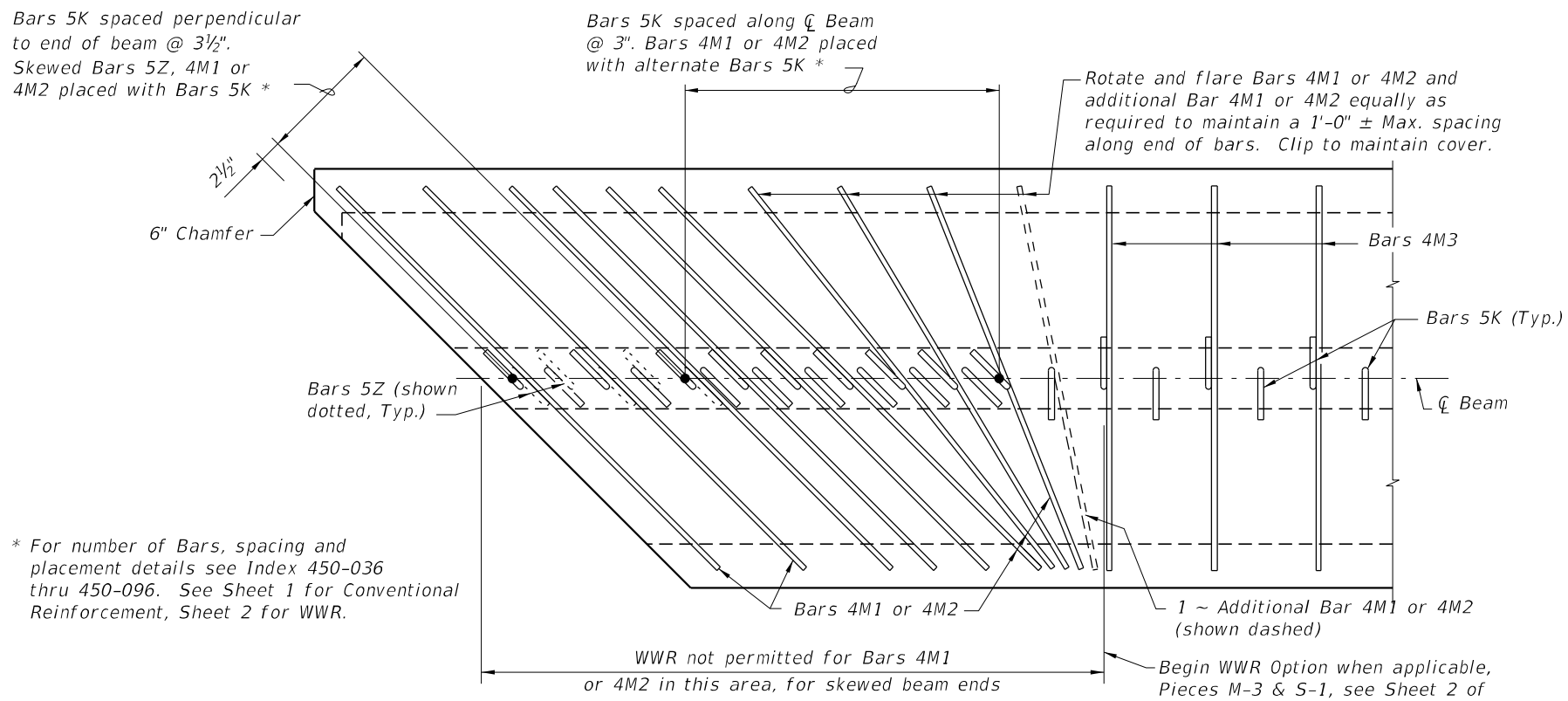
## Origination Package Includes: (Email or hand deliver package to Derwood Sheppard)

- | Yes                      | N/A                                 |   |
|--------------------------|-------------------------------------|---|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Redline Mark-ups                          |
| <input type="checkbox"/> | <input type="checkbox"/>            | Proposed Standard Plan Instructions (SPI) |
| <input type="checkbox"/> | <input type="checkbox"/>            | Revised SPI                               |
| <input type="checkbox"/> | <input type="checkbox"/>            | Other Support Documents                   |

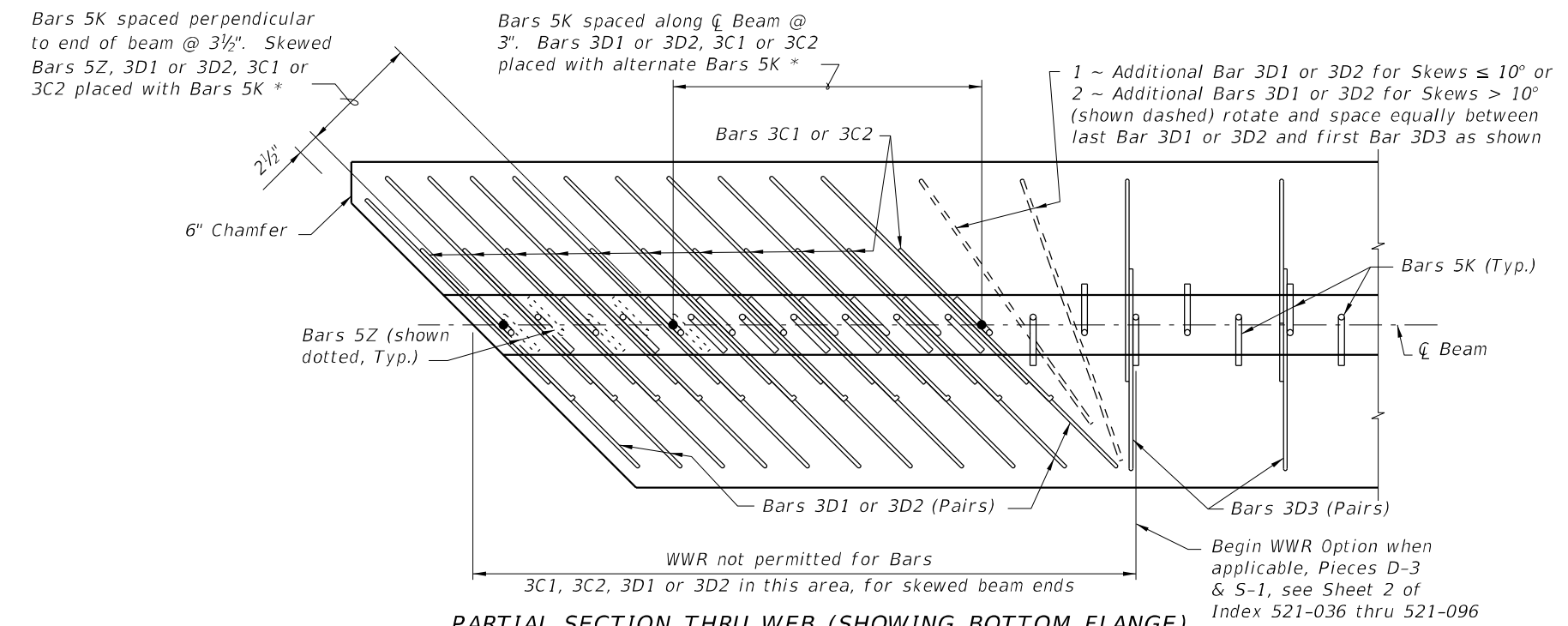
## Implementation:

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

Contact the Roadway Design Office for assistance in completing this form

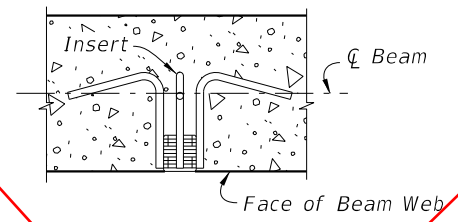


**PARTIAL PLAN VIEW (SHOWING TOP FLANGE)**  
 (End 1 Shown, End 2 Similar)  
 (Bars 5A, 5Y & Strands N not shown for clarity)



**PARTIAL SECTION THRU WEB (SHOWING BOTTOM FLANGE)**  
 (END 1 Shown, END 2 Similar)  
 (Bars 5Y, Strands, and Embedded Bearing Plate "A" not shown for clarity)

**SKewed BEAM END DETAILS FOR WIDENING EXISTING BRIDGES**  
 (Florida-I 36 Beam shown, others similar)

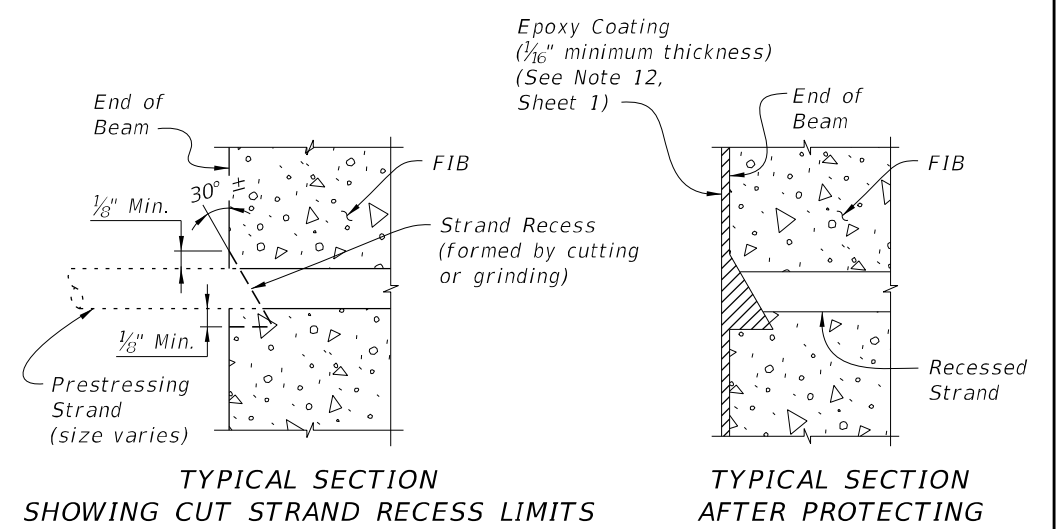


**PLAN SECTION THRU BEAM WEB AT INSERT FOR DIAPHRAGM REINFORCING**  
 (When Intermediate Diaphragms are Required by Design)

**INSERT NOTES**

1. Provide 1" Ø, zinc-electroplated, ferrule wing nut or coil inserts, UNC threads, 1/0 minimum gage wire, not more than 4" in depth with a minimum ultimate tensile strength of 11,400 lbs. in 4,000 psi concrete.
2. If inserts are needed on both sides (faces) of beam webs, an assembly as long as the thickness of the beam web, consisting of two (2) ferrule or coil inserts attached by two (2) or more struts may be utilized. The connecting struts shall have a minimum ultimate tensile strength of 11,400 lbs.
3. Inserts for diaphragm reinforcing are required at each end of each intermediate diaphragm shown on the Beam Framing Plan and may be required at the end of the beams when end diaphragms are shown. See Superstructure and Beam Framing Plans for longitudinal location of inserts for each face of beam.

**INSERT DETAIL**



**TYPICAL SECTION SHOWING CUT STRAND RECESS LIMITS**

**TYPICAL SECTION AFTER PROTECTING**

**STRAND CUTTING AND PROTECTING DETAIL**

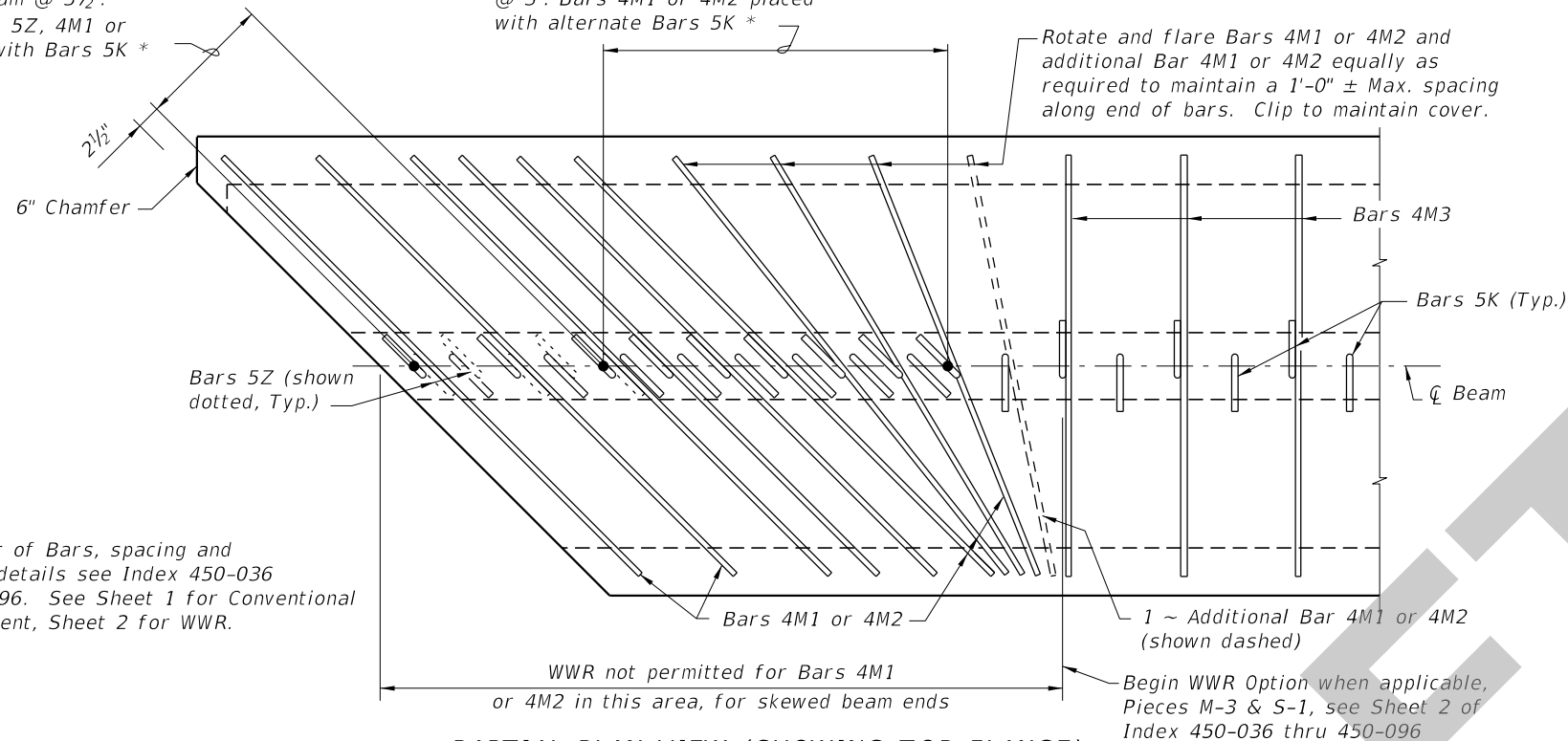
10/24/2018 11:37:21 AM

LAST REVISION 11/01/16	REVISION 19	DESCRIPTION:		FY 2019-20 STANDARD PLANS	FLORIDA-I BEAM - TYPICAL DETAILS & NOTES	INDEX 450-010	SHEET 2 of 2
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Bars 5K spaced perpendicular to end of beam @ 3½". Skewed Bars 5Z, 4M1 or 4M2 placed with Bars 5K \*

Bars 5K spaced along  $\phi$  Beam @ 3". Bars 4M1 or 4M2 placed with alternate Bars 5K \*

Rotate and flare Bars 4M1 or 4M2 and additional Bar 4M1 or 4M2 equally as required to maintain a 1'-0"  $\pm$  Max. spacing along end of bars. Clip to maintain cover.

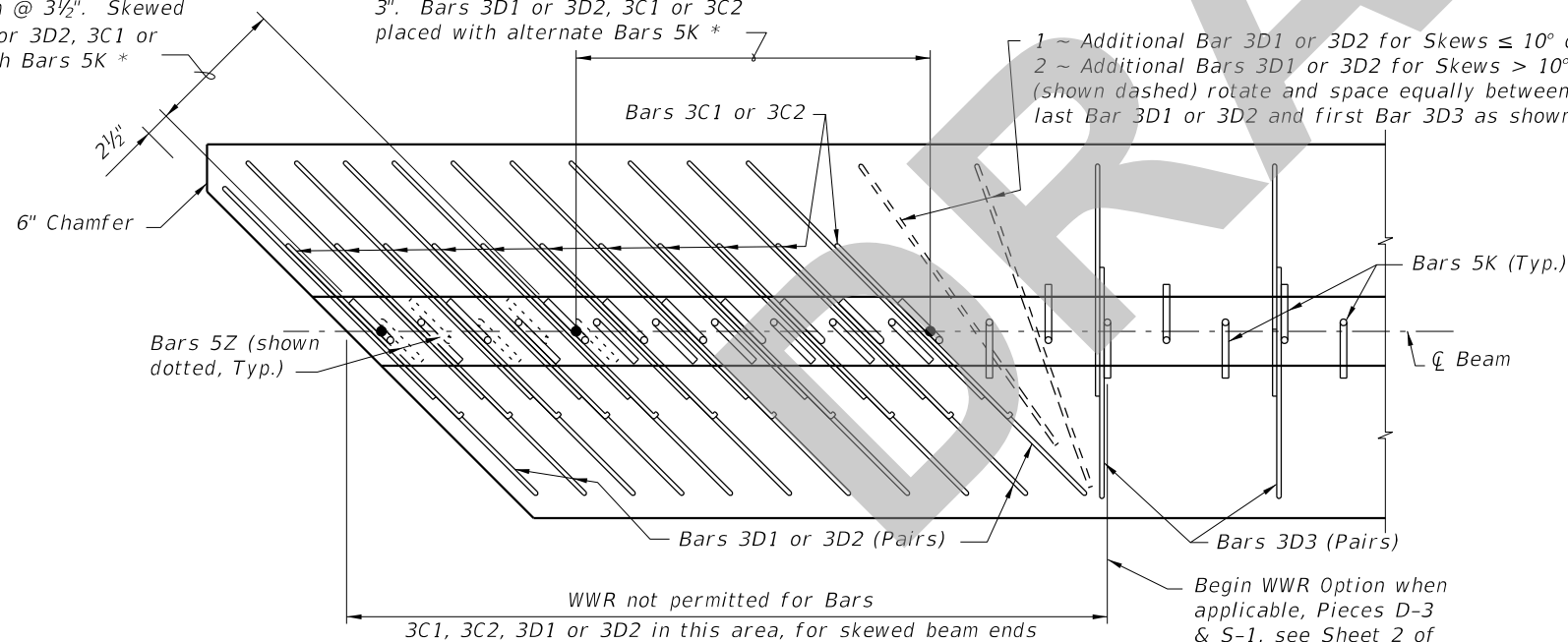


**PARTIAL PLAN VIEW (SHOWING TOP FLANGE)**  
(End 1 Shown, End 2 Similar)  
(Bars 5A, 5Y & Strands N not shown for clarity)

Bars 5K spaced perpendicular to end of beam @ 3½". Skewed Bars 5Z, 3D1 or 3D2, 3C1 or 3C2 placed with Bars 5K \*

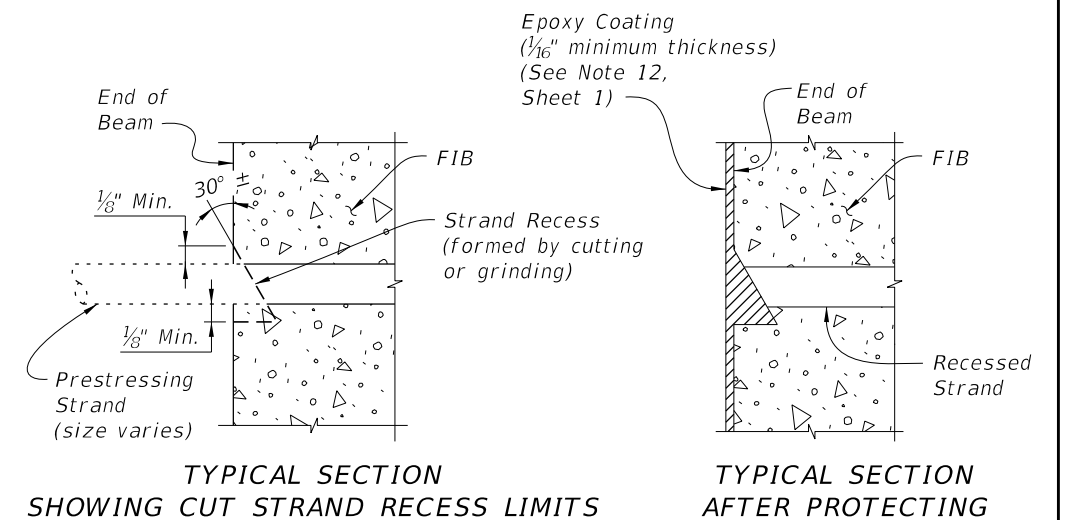
Bars 5K spaced along  $\phi$  Beam @ 3". Bars 3D1 or 3D2, 3C1 or 3C2 placed with alternate Bars 5K \*

1 ~ Additional Bar 3D1 or 3D2 for Skews  $\leq 10^\circ$  or 2 ~ Additional Bars 3D1 or 3D2 for Skews  $> 10^\circ$  (shown dashed) rotate and space equally between last Bar 3D1 or 3D2 and first Bar 3D3 as shown



**PARTIAL SECTION THRU WEB (SHOWING BOTTOM FLANGE)**  
(END 1 Shown, END 2 Similar)  
(Bars 5Y, Strands, and Embedded Bearing Plate "A" not shown for clarity)

**SKewed BEAM END DETAILS FOR WIDENING EXISTING BRIDGES**  
(Florida-I 36 Beam shown, others similar)



**TYPICAL SECTION SHOWING CUT STRAND RECESS LIMITS**

**TYPICAL SECTION AFTER PROTECTING**

**STRAND CUTTING AND PROTECTING DETAIL**

SDATES

LAST REVISION 11/01/19	DESCRIPTION:
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FY 2020-21  
STANDARD PLANS

FLORIDA-I BEAM  
- TYPICAL DETAILS & NOTES

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450-010

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