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## ORIGINATION FORM

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### 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: 450-450

Sheet Number (s): ALL

Index Title: Typical Florida Slab Beam Details and Notes

**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                                  |  |
|-------------------------------------|-------------------------------------|--|
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | Other Standard Plans –                             |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | FDOT Design Manual –                               |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | Basis of Estimates Manual – Change from DEV        |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | Standard Specifications – Specification 450 update |
| <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 Rick Jenkins)

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

**Implementation:**

- |                                     |                                  |
|-------------------------------------|----------------------------------|
| <input type="checkbox"/>            | Design Bulletin (Interim)        |
| <input type="checkbox"/>            | DCE Memo                         |
| <input type="checkbox"/>            | Program Mgmt. Bulletin           |
| <input checked="" type="checkbox"/> | FY-Standard Plans (Next Release) |

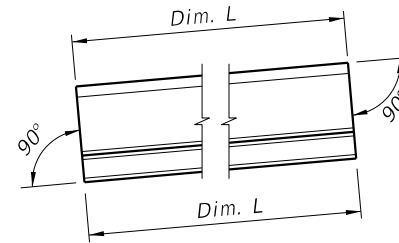
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Contact the Roadway Design Office for assistance in completing this form

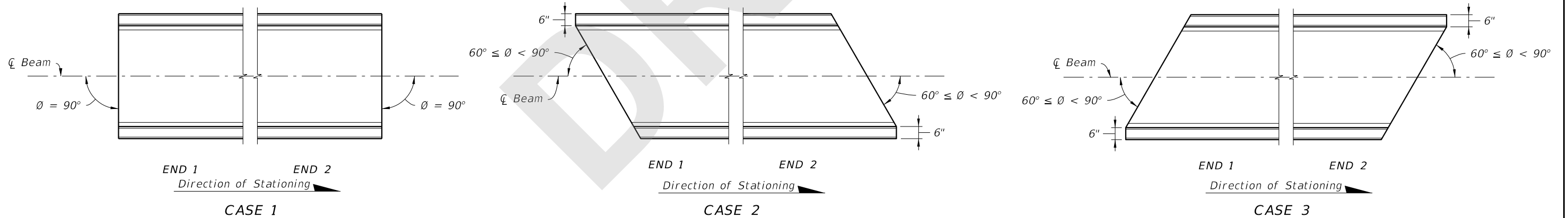
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FABRICATION NOTES

1. The abbreviated FSB designation for depth and width is FSB "depth" x "width", e.g. FSB 12 x 48.
2. All bar dimensions are out-to-out.
3. Strands N shall be ASTM A416, Grade 250 or 270,  $\frac{3}{8}$ "  $\emptyset$  or larger strands, stressed to 10,000 lbs. each.
4. Unless otherwise noted, the minimum concrete cover for reinforcing steel shall be 2".
5. For referenced Dimensions, Angles and Case Numbers, see Florida Slab Beam - Table of Variables in Structures Plans.
6. Bars 4D1 & 6Y1 correspond to END 1, and 4D2 & 6Y2 correspond to END 2.
7. Bars 5E1 correspond to interior FSBs, and 5E2 correspond to exterior FSBs.
8. Rake the top surface of the Slab Beams transversely to provide a roughened surface with  $\frac{1}{4}$ " amplitude.
9. Embedment of Safety Line Anchorage Devices are permitted to accommodate full protection systems. See shop drawings for details and spacings.




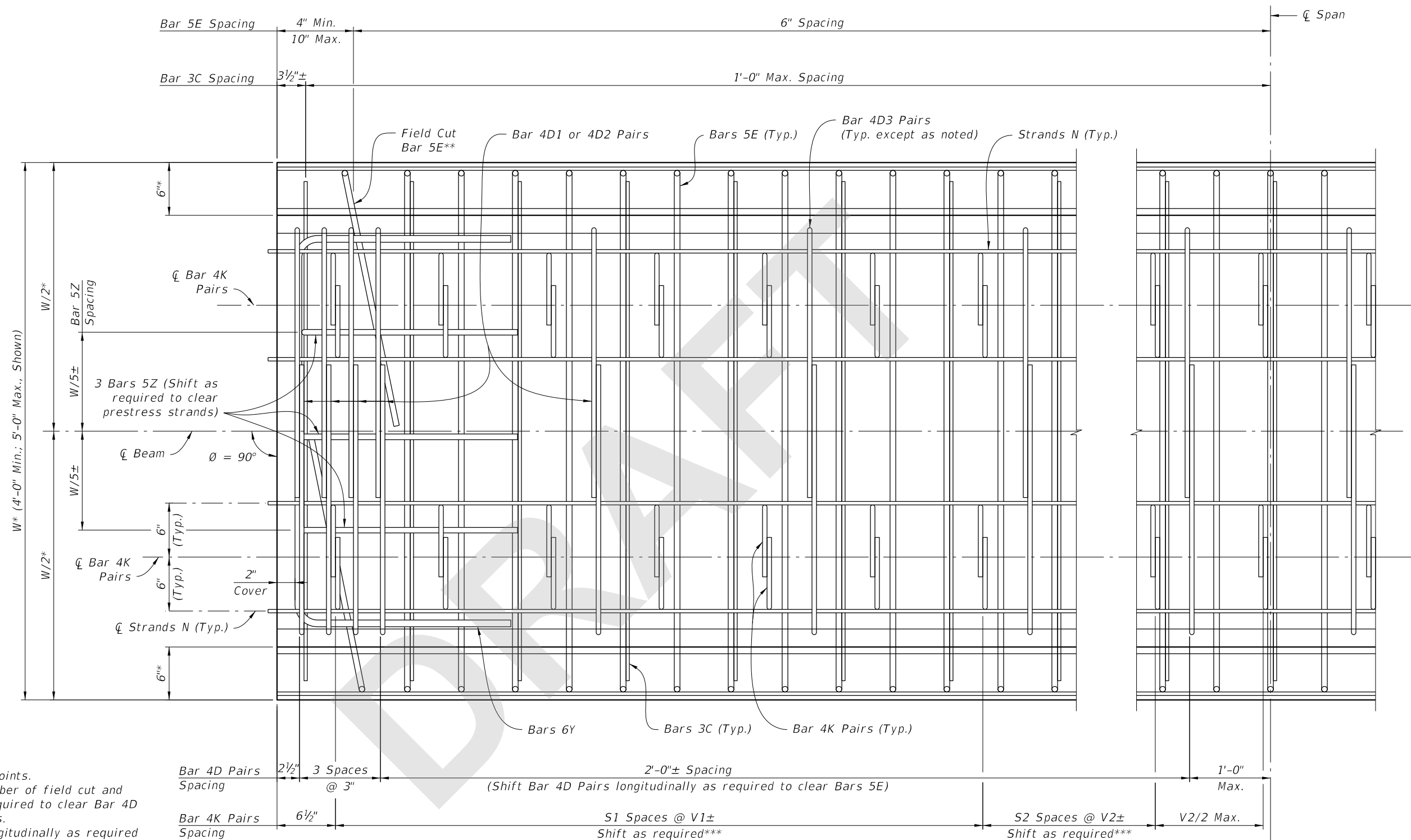
**SCHMATIC SIDE ELEVATION OF BEAM**  
 (Beam on a Positive Grade shown; Beam on a Negative Grade or Horizontal Grade similar.)



SCHEMATIC PLAN VIEWS AT BEAM ENDS

SDATES STIMES

LAST REVISION 11/01/20	REVISION	DESCRIPTION:	 FY 2021-22 STANDARD PLANS	FLORIDA SLAB BEAM TYPICAL DETAILS AND NOTES	INDEX 450-450	SHEET 1 of 3
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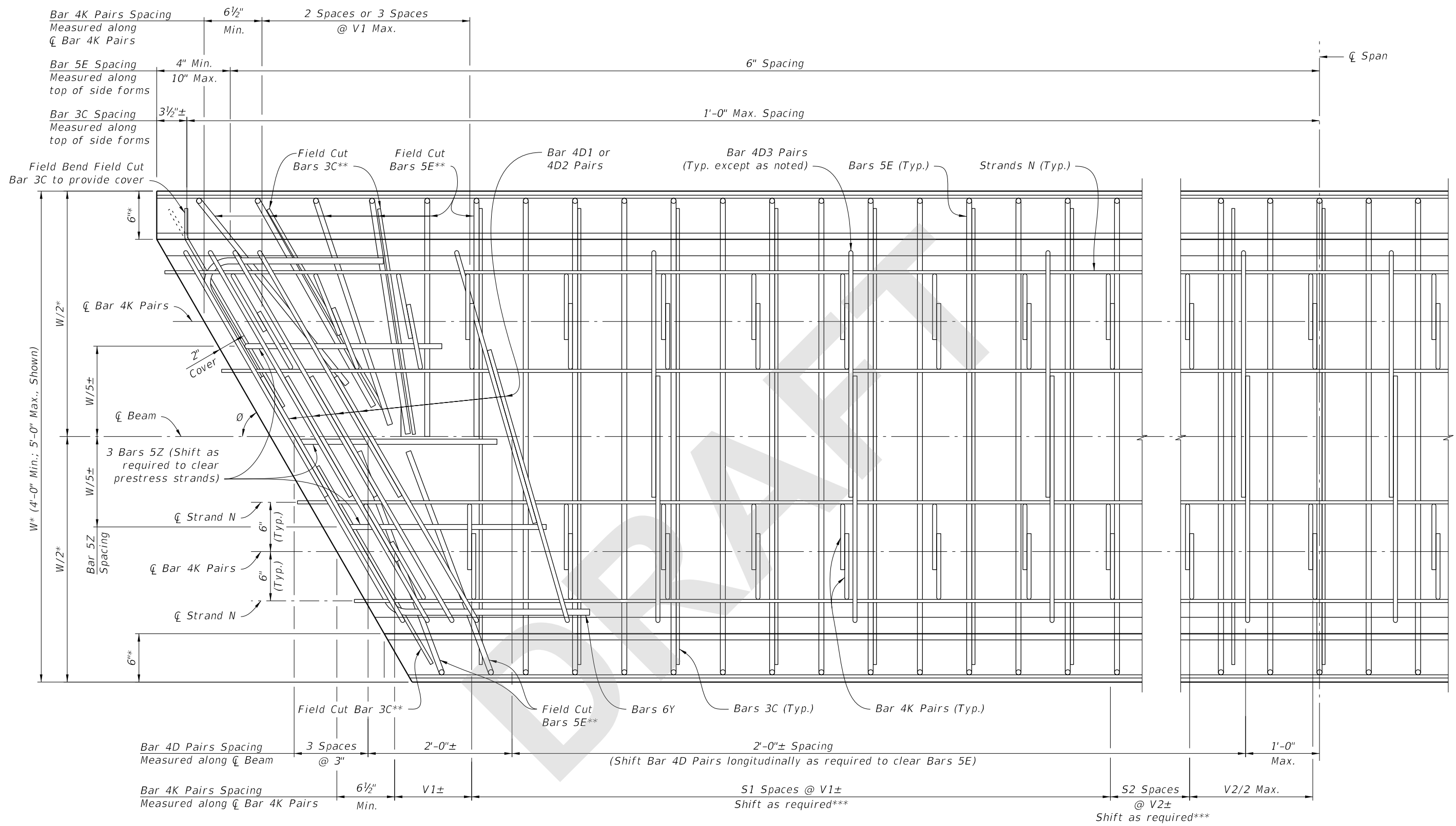
\* Measured to Working Points.  
 \*\* At Beam ends, use number of field cut and rotated Bars 5E as required to clear Bar 4D Pairs and Bar 4K Pairs.  
 \*\*\* Shift Bar 4K Pairs longitudinally as required to clear Bar 4D Pairs and Bars 3C and 5E.

CROSS REFERENCE:  
 For Dimensions V1, V2 & W and number of spaces S1 & S2, see Florida Slab Beam - Table of Variables in Structures Plans.  
 See Indexes 450-451, 450-452 and 450-453 for Bars 5E Details.

**PARTIAL PLAN VIEW  $\theta = 90^\circ$**   
 (END 1 SHOWN, END 2 SIMILAR)  
 (INTERIOR BEAM SHOWN, EXTERIOR BEAM SIMILAR, SEE BARS 5E DETAILS)

SDATES

LAST REVISION 11/01/20	DESCRIPTION:	 <b>FY 2021-22          STANDARD PLANS</b>	<b>FLORIDA SLAB BEAM TYPICAL          DETAILS AND NOTES</b>	INDEX <b>450-450</b>	SHEET <b>2 of 3</b>
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**PARTIAL PLAN VIEW  $60^\circ \leq \theta < 90^\circ$**


(END 1 SHOWN, END 2 SIMILAR)  
 (INTERIOR BEAM SHOWN, EXTERIOR BEAM SIMILAR, SEE BARS 5E DETAILS)

**CROSS REFERENCE:**  
 For Dimensions V1, V2 & W, Angle  $\theta$  and number of spaces S1 & S2,  
 see Florida Slab Beam - Table of Variables in Structures Plans.

See Indexes 450-451, 450-452 and 450-453 for Bars 5E Details.

\* Measured to Working Points.  
 \*\* At Beam ends, use number of field cut and rotated Bars 3C and 5E as required to clear Bar 4D Pairs and Bar 4K Pairs.  
 \*\*\* Shift Bar 4K Pairs longitudinally as required to clear Bar 4D Pairs and Bars 3C and 5E.

SDATES

LAST REVISION 11/01/20	DESCRIPTION:	 <b>FY 2021-22          STANDARD PLANS</b>	<b>FLORIDA SLAB BEAM TYPICAL          DETAILS AND NOTES</b>	INDEX 450-450	SHEET 3 of 3
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