ORIGINATION FORM

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

**Contact Information:**
Date: May 14, 2021  
Originator: Derwood Sheppard  
Phone: (850) 414-4334  
Email: derwood.sheppard@dot.state.fl.us

**Summary of the changes:**
All: Renumbered
Sheet 1: Deleted Note 1 for Pavement Messages; Deleted Pavement Message Spacing Table; Deleted the General Notes.
Sheet 2: Moved the MARKING FOR MERGE detail from Sheet 8.
Sheet 8: Deleted Right Turn Lane Drop and Island Details and DETAIL "C" from Index. Moved to the FDM, Combined with Signing Details shown in 230-5; Deleted the Traffic Channelization At Gore detail Note; Moved the Instructions associated with the TWO WAY LEFT TURN LANE details to the SPI.
Sheet 9: Deleted Schemes for Transition details and DETAIL "D" from Index. Moved to FDM, Combined with Signing Details shown in Exhibit 230-05; Changed Detail "E" to "Markings For Merge" and Deleted the NOTE; Moved Details to Sheet 2; Moved the "Markings For Traffic Separation" to Sheet 8; Deleted Sheet 9.
Sheet 11: New Sheet 10: Revert back to FY 2018-19 Index and delete redundant information shown in FDM Exhibit 212-1.

**Commentary / Background:**
Changes are required to make the Index consistent with the FDM. Duplicate information will be deleted from the Index. Some information deleted from Index will be added to the FDM.

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

<table>
<thead>
<tr>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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</tr>
<tr>
<td>☑</td>
<td></td>
</tr>
</tbody>
</table>

- OtherStandard Plans –
- FDOT Design Manual –
- Basis of Estimates Manual –
- Standard Specifications –
- Approved Product List –
- Construction –
- Maintenance –

**Origination Package Includes:**
(Email or hand deliver package to Rick Jenkins)

<table>
<thead>
<tr>
<th>Yes</th>
<th>N/A</th>
</tr>
</thead>
<tbody>
<tr>
<td>☑</td>
<td></td>
</tr>
</tbody>
</table>
- Redline Mark-ups
- Proposed Standard Plan Instruction (SPI)
- Revised SPI
- Other Support Documents

**Implementation:**

<p>| | |</p>
<table>
<thead>
<tr>
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<tbody>
<tr>
<td>☑</td>
<td>Design Bulletin (Interim)</td>
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<tr>
<td></td>
<td>DCE Memo</td>
</tr>
<tr>
<td></td>
<td>Program Mgmt. Bulletin</td>
</tr>
<tr>
<td>☑</td>
<td>FY-Standard Plans (Next Release)</td>
</tr>
</tbody>
</table>

Contact the Roadway Design Office for assistance in completing this form

Email to: Rick Jenkins rick.jenkins@dot.state.fl.us and Darren Martin darren.martin@dot.state.fl.us
NOTES FOR PAVEMENT MESSAGES:
1. When an arrow or another pavement message is used with a pavement message, maintain a minimum distance of 5' between items. See the Pavement Message Spacing Table for "S" value.
2. Place all pavement messages 25' back from the stop line.
3. Dimensions are within 1" ±.
4. All grids are 4" x 4".
5. All pavement messages must be white except route shields.
6. Increase width of route shield for routes with three digits.

PAVEMENT MESSAGE AND ARROW DETAILS

GENERAL NOTE:
1. See Index 509-076 for pavement markings at railroad crossings.

PAVEMENT MESSAGE SPACING TABLE

<table>
<thead>
<tr>
<th>Posted Speed (mph)</th>
<th>Distance &quot;S&quot; (feet)</th>
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</thead>
<tbody>
<tr>
<td>20</td>
<td>25</td>
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<tr>
<td>30</td>
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<td>70</td>
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<td>80</td>
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</tbody>
</table>

SPACING TABLE

<table>
<thead>
<tr>
<th>PAVEMENT MESSAGE</th>
<th>DISTANCE &quot;S&quot; (feet)</th>
</tr>
</thead>
<tbody>
<tr>
<td>12 S.F.</td>
<td>3</td>
</tr>
<tr>
<td>22 S.F.</td>
<td>4</td>
</tr>
<tr>
<td>23 S.F.</td>
<td>5</td>
</tr>
<tr>
<td>24 S.F.</td>
<td>6</td>
</tr>
<tr>
<td>25 S.F.</td>
<td>7</td>
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<tr>
<td>26 S.F.</td>
<td>8</td>
</tr>
<tr>
<td>27 S.F.</td>
<td>9</td>
</tr>
<tr>
<td>29 S.F.</td>
<td>11</td>
</tr>
<tr>
<td>30 S.F.</td>
<td>12</td>
</tr>
<tr>
<td>34 S.F.</td>
<td>15</td>
</tr>
</tbody>
</table>

11/01/21

11/01/21

Reconstructed pavement marking details.
Pavement Marking Lines

- **Solid Edge Line or Lane Line**
- **Solid Channelizing Line**
- **Two-Lane Passing Prohibited Lines**
- **Double Solid Lines**
- **12" Solid Pedestrian Crosswalk Line**
- **2" Solid Stop Line**
- **12" Solid Channelizing Line**
- **6'-10' Dotted Extension Line**
- **3'-9' Dotted Interchange Line**
- **3'-9' Dotted Lane Drop Line**
- **10'-30' Skip Line**
- **2'-2' Dotted Extension Line**
- **12" Solid Pedestrian Crosswalk Line**
- **24" Solid Stop Line**
- **10'-30' Skip Line with Shadow Markings**
- **Dotted Line with Alternating Shadow Markings**

**Yield Lines**

Yield Lines consist of five 18" X 27" white triangles which face traffic. Equally space triangles within traffic lane. When a bike lane is present, add one additional triangle in the center of the bike lane.
1. Lane widths (X) may not be same for each lane in the section.

2. For placement of RPMs, see Index 706-001.
NOTES:
1. Lane widths (X) may not be same for each lane in the section.
2. For placement of RPMs, see Index 706-001.
3. For placement of Express Lane markers and associated RPMs, see the Plans.

INTERSECTION APPROACH STRIPING WITH TURN
LANES AND BUFFERED BIKE LANE KEY HOLE

NOTES:
1. Lane widths (X) may not be same for each lane in the section.
2. For placement of RPMs, see Index 706-001.
3. For placement of Express Lane markers and associated RPMs, see the Plans.
CURB AND GUTTER SHOWN

PLACEMENT OF LONGITUDINAL PAVEMENT MARKINGS

DESCRIPTION:
- Added railroad pavement marking details.
- Renumbered

11/01/21

REVISED
02/05/21
11:53:41 AM

REVISION
LAST
OF
STANDARD PLANS
FY 2021-22
PAVEMENT MARKINGS
INDEX
711-001
SHEET 13 of 13

PAVEMENT MARKINGS
PLACEMENT OF LONGITUDINAL PAVEMENT MARKINGS

DESCRIPTION:

Added railroad pavement marking details.

RENUMBERED:

11/01/21

FAA 2021-22
STANDARD PLANS

PAVEMENT MARKINGS

INDEX
711-001

SHEET
6 of 14
1. Apply yellow reflective paint to the noses of curbed medians, traffic separators, and raised islands. When applying yellow reflective paint in conjunction with Raised Pavement Markers, see Index 706-001.

2. Options for grassed medians:
   A. Option 1: Tubular Marker (Yellow). Attach Tubular Marker according to manufacturer's instructions. Non-Paved Surface Foundation (See Detail "B") is provided as an option if no other suitable surface is provided. Install Non-Paved Surface Foundation flush with the surrounding ground surface.
   B. Option 2: Delineator Post. Use yellow retro-reflective sheeting on both sides of the delineator. Install the post so that the top is 4'-0" above the grade at the edge of the pavement.

3. Extend double yellow centerlines 100' back from intersection on all approaches or 50' for unmarked cross roads.

NOTE:

PAVEMENT MARKINGS FOR INTERSECTIONS WITH MAJOR AND MINOR ROADS
added railroad pavement marking details.

Revised 11/01/21

11/01/21

Renumbered

Moved to FDM, Combined with Signing Details shown in 230-5

DELETED FROM INDEX

TRAFFIC CHANNELIZATION AT GORE

NOTE:
See Sheet 1 for "S" value.

DELETED

Replaced with existing gore details.

DELETED

MOVED TO THE SPI

For use in congested urban areas where available storage length between intersections is limited and a permanent point of transition from the two-way turning lane to the exclusive turning lane cannot be determined.

For use in rural & suburban areas where an adequate storage lane length can be specifically determined.

NOTE:
See Sheet 1 for "S" value.

DELETED

MOVED TO THE SPI

For use in congested urban areas where available storage length between intersections is limited and a permanent point of transition from the two-way turning lane to the exclusive turning lane cannot be determined.

For use in rural & suburban areas where an adequate storage lane length can be specifically determined.

NOTE:
See Sheet 1 for "S" value.

DELETED

MOVED TO THE SPI

For use in congested urban areas where available storage length between intersections is limited and a permanent point of transition from the two-way turning lane to the exclusive turning lane cannot be determined.

For use in rural & suburban areas where an adequate storage lane length can be specifically determined.

NOTE:
See Sheet 1 for "S" value.
**REVISED DESCRIPTION:**

**LAST REVISED:** 02/05/21

**STANDARD PLANS FY 2021-22**

**INDEX 711-001**

**MOVED TABLE TO SHEET 8**

**DELETE NOTE**

**MARKINGS FOR TRAFFIC SEPARATION**

**DETAIL "D"**

18" Pavement Marking (See Note)

**NOTE:** Make pavement markings yellow for left roadway centered on existing roadway. Right roadway centered on existing roadway is similar with white pavement markings.

**DETAIL "E"**

**NOTE:** See Sheet 7 for 4 Typical

**CHANGED TO:** Marking for Merge

**MOVED DETAILS TO SHEET 2**

**MOVED DETAILS TO SHEET 8**

**CHANGED TO:** 25'
NOTES:

1. For crosswalk width, exceed width of the adjacent sidewalk, but do not make width less than 6' for intersection crosswalks and 10' for midblock crosswalks. Measure width from the inside of the transverse crosswalk markings.

2. When the Special Emphasis Crosswalk is not perpendicular to the lane lines, make the longitudinal markings parallel to the lane lines.

3. Refer to Index 522-002 when Curb Ramps are present.
**NOTES:**

1. This Index also applies to right turn lanes.

2. Make pavement marking yellow for left-turn lanes and white for right-turn lanes.

3. See Sheet 1 for "S" value.

4. Space arrows evenly between the first and last arrow with a minimum spacing of "S" between arrows.

5. For turn lanes greater than 225' in length, use a minimum of three arrows. Use additional arrows in accordance with the Plans or as directed by the Engineer. Space arrows evenly throughout the available length with a minimum spacing of "S" between arrows.

Revert Back to previous version, see mark-up of FY 2018-19 Index. (Next Sheet)
SINGLE LEFT TURNS

** Queue Length is Measured From The Median Nose Radial Point Or, When A Stop Bar Is Required, From The Stop Bar.

Delete redundant information shown in FDM Exhibit 212-1.

DOUBLE LEFT TURNS

TURN LANE MARKINGS

ARROW SPACING AND TURN LANE MARKINGS

NOTES:
1. This Index also applies to right turn lanes.
2. Make pavement marking yellow for left-turn lanes and white for right-turn lanes.
DESCRIPTION:

02/05/21

REV ISIO N

11/01/21

FOR ACCESSIBLE MARKINGS - SEE ABOVE

FORWARD-IN PARKING

REVERSE-IN PARKING

1. Dimensions are to the centerline of markings.
2. An Access Aisle is required for each accessible space when angle parking is used.
3. Criteria for pavement markings only, not public sidewalk curb ramp locations. For ramp locations refer to plans.
4. Tint blue pavement markings to match color 15180 of Federal Standards 595a.
5. Mount FTP-22-06 sign below the FTP-21-06 sign.
6. Use of the pavement symbol in accessible parking spaces is optional. When pavement symbol is used, the symbol is either 3'-0" or 5'-0" high and white in color.

UNIVERSAL SYMBOL OF ACCESSIBILITY

NOTES:

* For accessible markings - see above

DIMENSIONS

<table>
<thead>
<tr>
<th>4&quot;</th>
<th>5&quot;</th>
<th>6&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>40°</td>
<td>17'-0&quot;</td>
<td>12'-0&quot;</td>
</tr>
<tr>
<td>60°</td>
<td>7'-0&quot;</td>
<td>24'-0&quot;</td>
</tr>
<tr>
<td>90°</td>
<td>12'-0&quot;</td>
<td>17'-0&quot;</td>
</tr>
</tbody>
</table>
NOTES:
1. All grids are 4" x 4".
2. Pavement Marking Should Not Extend Into Opposing Lane.
3. Center School Pavement Marking In lane.

SCHOOL PAVEMENT MARKING

33 S.F.

SINGLE-LANE APPROACH
TWO-LANE APPROACH
MULTI-LANE APPROACH
(Three or More)

MARKINGS FOR SCHOOL ZONES

11/01/21

12 of 13
NOTE:
Orient Railroad Dynamic Envelope Marking as shown in the Plans.

RAILROAD DYNAMIC ENVELOPE (RDE) PAVEMENT MARKING DETAIL

RAILROAD CROSSING PAVEMENT MESSAGE

11/01/21

11/01/21

02/05/21
REV ISIO VN
DESCRIPTION:

REV

STANDARD PLANS
FY 2022-23

PAVEMENT MARKINGS
INDEX

PAVEMENT MESSAGES NOTES:
1. Place all pavement messages 25' back from the stop line.
2. Dimensions are within 1" ±.
3. All grids are 4" x 4".
4. All pavement messages must be white except route shields.
5. Increase width of route shield for routes with three digits.

PAVEMENT MESSAGE AND ARROW DETAILS
Solid Edge Line or Lane Line
Solid Channelizing Line
Two-Lane Passing Prohibited Lines
Double Solid Lines
12" Solid Pedestrian Crosswalk Line
24" Solid Stop Line
10' Black Contrast (Typ.)
10' White Skip (Typ.)
3' Black Contrast (Typ.)
3' White Skip (Typ.)

- 4" Dotted Guide Line
- 2'-2' Dotted Extension Line
- 6'-10' Dotted Extension Line
- 3'-9' Dotted Interchange Line
- 3'-9' Dotted Lane Drop Line
- 6'-10' Skip Line
- 10'-30' Skip Line

Lane Line
Lane Line
Travel Lane
Bike Line
Edge Line

Yield Lines consist of five 18" X 27" white triangles which face traffic. Equally space triangles within traffic lane. When a bike lane is present, add one additional triangle in the center of the bike lane.

10' White Skip (Typ.)
10' Black Contrast (Typ.)
3 White Skip (Typ.)
3 Black Contrast (Typ.)

10'-30' SKIP LINE WITH SHADOW MARKINGS
DOTTED LINE WITH ALTERNATING SHADOW MARKINGS
(3'-9' Dotted Line Shown, Other Dotted Lines Similar)
CURB AND GUTTER

FLUSH SHOULDER

$X = \text{LANE WIDTH (FT.)}$

$Y = \text{BUFFERED BIKE LANE WIDTH (FT.)}$

NOTES:

1. Lane widths ($X$) may not be same for each lane in the section.
2. For placement of RPMs, see Index 706-001.
NOTES:

1. Lane widths (X) may not be same for each lane in the section.

3. For placement of RPMs, see Index 706-001.

4. For placement of Express Lane markers and associated RPMs, see the Plans.
DESCRIPTION:

PLACEMENT OF LONGITUDINAL PAVEMENT MARKINGS

CURB AND GUTTER SHOWN

DRAFT
INTERNAL REVIEW
1

REVISED 11/01/21
LAST REVISION
STANDARD PLANS
FY 2022-23
PAVEMENT MARKINGS
INDEX
711-001
SHEET
5 of 13
PVAVEMENT MARKINGS AND DELINEATORS FOR MEDIAN CROSSOVER

NOTE:
1. Apply yellow reflective paint to the noses of curbed medians, traffic separators, and raised curbs. When applying yellow reflective paint in conjunction with Raised Pavement Markers, see Index 706-001.

2. Options for grassed medians:
   A. Option 1: Tubular Marker (Yellow). Attach Tubular Marker according to manufacturer’s instructions. Non-Paved Surface Foundation (See Detail “A”) is provided as an option if no other suitable surface is provided. Install Non-Paved Surface Foundation flush with the surrounding ground surface.
   B. Option 2: Delineator Post. Use yellow retro-reflective sheeting on both sides of the delineator. Install the post so that the top is 4'-0" above the grade at the edge of the pavement.

3. Extend double yellow centerlines 100’ back from intersection on all approaches or 50’ for unmarked cross roads.

PAVEMENT MARKINGS FOR INTERSECTIONS WITH MAJOR AND MINOR ROADS
Use stop line at signalized intersection only.

**TWO WAY LEFT TURN LANE** (With single lane left turn channelization)

<table>
<thead>
<tr>
<th>POSTED SPEED LIMIT (MPH)</th>
<th>INTERVAL (FT)</th>
</tr>
</thead>
<tbody>
<tr>
<td>30 OR LESS</td>
<td>10</td>
</tr>
<tr>
<td>35</td>
<td>20</td>
</tr>
<tr>
<td>40</td>
<td>30</td>
</tr>
<tr>
<td>45</td>
<td>40</td>
</tr>
<tr>
<td>50 OR MORE</td>
<td>60</td>
</tr>
</tbody>
</table>

**MARKINGS FOR TRAFFIC SEPARATION**

**TRAFFIC CHANNELIZATION AT GORE**
NOTES:

1. For crosswalk width, exceed width of the adjacent sidewalk, but do not make width less than 6' for intersection crosswalks and 10' for midblock crosswalks. Measure width from the inside of the transverse crosswalk markings.

2. When the Special Emphasis Crosswalk is not perpendicular to the lane lines, make the longitudinal markings parallel to the lane lines.

3. Refer to Index 522-002 when Curb Ramps are present.
**ARROW SPACING**

1. Arrow should be evenly spaced between first and last arrow. Turn lanes longer than 200' add one arrow for each 100' additional length.

**TURNS LANE MARKINGS**

1. This index also applies to right turn lanes.
2. Make Edgeline pavement markings yellow for left-turn lanes and white for right-turn lanes.

**NOTES:**

**ARROW SPACING AND TURN LANE MARKINGS**

FY 2022-23

STANDARD PLANS

PAVEMENT MARKINGS

INDEX

711-001

10 of 13
### PAVEMENT MARKING FOR PARKING

1. **FOR ACCESSIBLE MARKINGS - SEE ABOVE**

2. **FORWARD-IN PARKING**

3. **REVERSE-IN PARKING**

**NOTES:**

1. Dimensions are to the centerline of markings.

2. An Access Aisle is required for each accessible space when angle parking is used.

3. Criteria for pavement markings only, not public sidewalk curb ramp locations. For ramp locations refer to plans.

4. Tint blue pavement markings to match color 15180 of Federal Standards SRRA.

5. Mount FTP-22-06 sign below the FTP-21-06 sign.

6. Use of the pavement symbol in accessible parking spaces is optional. When pavement symbol is used, the symbol is either 3'-0" or 5'-0" high and white in color.

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**DIMENSIONS**

- **6" White**
- **6" Blue**
- **6°**
- **12'-0"**
- **24'-0"**
- **17'-0"**
NOTES:
1. All grids are 4" x 4".
2. Pavement Marking Should Not Extend Into Opposing Lane.

MARKINGS FOR SCHOOL ZONES

SCHOOL PAVEMENT MARKING
NOTE:
Orient Railroad Dynamic Envelope Marking as shown in the Plans.

RAILROAD DYNAMIC ENVELOPE (RDE) PAVEMENT MARKING DETAIL

RAILROAD CROSSING PAVEMENT MESSAGE

Area = 89 S.F.