FY 2019-20 Standard Plans
Update Training

Derwood Sheppard, P.E., M.Eng.
Standard Plans Publication Engineer
Central Office, Roadway Design
(850) 414-4334
derwood.sheppard@dot.state.fl.us
Update Training Agenda

- **General Overview**
  - Website
  - Revision History Log
  - Errata
  - FDOT Design Manual (FDM) Updates

- **Standard Plans Updates**
  - Derwood Sheppard
    - Misc. Indexes – Earthwork Details, Superelevation, Turnouts/Driveways, Sidewalk, & Curb Ramps
    - Misc. Traffic Control Signals and Devices
  - Richard Stepp
    - Guardrail and Single-Slope Concrete Barrier
    - Opaque Visual Barrier
    - Crash Cushions
  - Ed Cashman
    - Temporary Traffic Control
    - Signing, Signal & Pavement Marking
    - Lighting
  - Cheryl Hudson
    - Structures Related Indexes
http://www.fdot.gov/design/standardplans/
## Standard Plans for Road and Bridge Construction

### STANDARD PLANS

<table>
<thead>
<tr>
<th>Year</th>
<th>Standard Plans</th>
<th>Support</th>
<th>Interim Revisions</th>
<th>Implementation Bulletin</th>
<th>Effective Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>FY 2019-20</td>
<td>Road Construction</td>
<td>CADD/CAD</td>
<td>Interim</td>
<td>RDB13-10</td>
<td>07/01/19</td>
</tr>
<tr>
<td></td>
<td>Bridge Construction</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>FY 2018-19</td>
<td>Road Construction</td>
<td>CADD/CAD</td>
<td>Interim</td>
<td>RDB17-13</td>
<td>07/01/18</td>
</tr>
<tr>
<td></td>
<td>Bridge Construction</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
http://www.fdot.gov/design/standardplans/

<table>
<thead>
<tr>
<th>Standard Plans Index</th>
<th>Index Title</th>
<th>Design Standards Index</th>
<th>Standard Plans Instructions</th>
<th>Design Tools</th>
<th>Contact</th>
</tr>
</thead>
<tbody>
<tr>
<td>eBlog</td>
<td>Standard Plans for Road Construction - Complete eBook</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cover</td>
<td>Cover Sheet</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Abbrevs</td>
<td>Abbreviations Sheet</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TOC Road</td>
<td>Table of Contents - Road Construction</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Crosswalk</td>
<td>Crosswalk of Design Standards Index to Standard Plans</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Revisions</td>
<td>Revision History Log</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Support Detail**

- **Roadway**
  - 900-510: Superelavation Transitions - High Speed Roadways
  - 900-511: Superelavation Transitions - Low Speed Roadways
  - 800-525: Ramp Terminals

_Last updated: 11/02/2018_
### STANDARD PLANS
**FY 2019-20 REVISIONS LOG**

<table>
<thead>
<tr>
<th>Standard Plans Index</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>000-506</td>
<td>Changed to Index 160-001.</td>
</tr>
</tbody>
</table>
| 000-510              | All Sheets: Changed Title.  
Sheet 1: Deleted "DESIGN SPEED" table and "RADIUS OF CURVE" table; Deleted subtitle.  
Sheet 2: Added Concrete Pavement note to clarify shoulder slope transitions. |
| 000-511              | All Sheets: Changed Title, Subtitles, and Renumbered.  
Sheet 1: Deleted Superelevations Rates Tabulated and Charted Values (information can be found in FDM); combined General Notes with Old Sheet 2; Deleted all callouts for "CHARTED VALUES" on Old Sheet 2.  
Sheet 2: Updated Subtitle. |
| 000-515              | Deleted Index; Criteria information moved to New FDM Chapter 214. Construction details moved to New Indexes 522-003 or 330-001. |
| 000-516              | Deleted Index and moved information to Index 330-001. |
| 102-200              | Sheet 1: "STORAGE FACILITY" Note; Changed phone number to 407-278-2727. |
| 102-600              | Sheet 3: Updated "LENGTH OF LANE CLOSURES" Note.  
Sheet 9: Changed "DROP-OFF CONDITION NOTES" Note 5. |
| 102-655              | Sheet 1: Changed Notes to remove limitations to Limited Access Facilities and Overhead work.  
Clarified "TRAFFIC PACING GUIDE" notes for the requirements of site specific traffic control plans. Added Note 6 to the "TRAFFIC PACING GENERAL NOTES" for short duration operations. |
Individual Chapter Webinars

- Coming Soon!!
- Announcement will be sent out

2019 FDOT Design Manual Updates

www.fdot.gov/roadway/fdm
Standard Plans – Primary Updates:

1) General Overview and Website

2) Misc. Indexes
   a) Index 000-506 - Miscellaneous Earthwork Details (Including: Indexes 160-001 & 120-001)
   b) Index 000-510 - Superelevation - High Speed Roadways
   c) Index 000-511 - Superelevation - Low Speed Roadways
   d) Index 000-515 - Turnouts and Driveways (Including: Indexes 522-003 & 330-001)
      • Index 000-516 - Turnouts - Resurfacing Projects
   e) Index 350-001 - Concrete Pavement Joints
   f) Index 522-001 - Concrete Sidewalk
   g) Index 522-002 - Detectable Warnings and Sidewalk Curb Ramps
   h) Misc. Traffic Control Signals and Devices (Including: Indexes 630-001, 634-002, 635-001, 659-010, 660-001, and 676-010
Re-Indexed 160-001: Stabilization Details

Index 120-001: Excess Base Materials Information Relocated

NOTES
1. All material in the shaded area is excess base to be removed.
2. The cost for removal of excess base material shall be included in the contract unit price for boom.
3. Payment for base shall be calculated using nominal unit.

REMOVAL OF EXCESS BASE MATERIAL

NOTES
1. When the median has curbs or curbs and gutter, stabilize 4' back of curb.
2. When the median has shoulder with no curb or curb and gutter, stabilize to normal shoulder width.
3. See the details above for stabilizing requirements at crossings.
4. Stabilize entire area under all paved traffic islands.
5. Stabilize full width under all traffic separators.
6. Except material as defined in Index 120-001. For minor turbulence and low sensitivity, the depth of selected material shall not be reduced from 3' to 4'.

MEDIAN STABILIZING DETAILS
New Index 160-001:
Median Stabilizing Details

Specification 160 (Stabilizing)
Updated:

- Layout Style
- General Notes

**Removal of Excess Base Material**

**GENERAL NOTES:**

1. Foundation dimensions and control lines are standard. The details shown on this Index do not supersede the details shown in the Plans or Indexes 120-002 and 366-001.

2. Plastic (P) soils may be placed above the existing water table (at the time of construction) to within 6 feet of the proposed base. It should be placed uniformly in the lower portion of the embankment for some distance along the project rather than full depth for short distances.

3. High Plastic (H) soils excavated within the project limits may be used in embankment construction as indicated on this Index. High Plastic soils are not to be used for embankment construction when obtained from outside the project limits.

4. Select (S) soils having an average organic content of more than two and one-half (2.5) percent, or having an individual test value which exceeds four (4) percent, are not permitted in the subgrade portion of the embankment. Select (S), Plastic (P), or High Plastic (H) soils having an average organic content of more than five (5) percent, or an organic content individual test result which exceeds seven (7) percent, are not permitted in the portion of embankment inside the control zone, unless their removal is approved in writing by the District Geological Engineer; these soils may be used for embankment construction outside the control zone, unless restricted by the Plans or otherwise specified in the Plans, provided they can be compacted sufficiently to sustain a safe surface for

5. Highly organic soils, composed primarily of partially decayed organic matter, often dark brown or black in color with an odor of decay, and sometimes fibrous, are designated as H. Further, any stratum or strata of soil which contains pockets of highly organic material may be designated as rich (R). Highly organic soils are not permitted within the subgrade or embankment portion of the roadway.

**REMOVAL OF EXCESS BASE MATERIAL**

1. All material in the shaded area is excess base to be removed.

2. There is no additional payment for removal of excess base material.
Removal of Treated Permeable Base Option

Departments Preference now:
- Asphalt Base
- Special Select Soils

Refer to:
Rigid Pavement Design Manual
Standard Plans – Primary Updates:

1) General Overview and Website

2) Misc. Indexes
   a) Index 000-506 - Miscellaneous Earthwork Details (Including: Indexes 160-001 & 120-001)
   b) Index 000-510 - Superelevation - High Speed Roadways
   c) Index 000-511 - Superelevation - Low Speed Roadways
   d) Index 000-515 - Turnouts and Driveways (Including: Indexes 522-003 & 330-001)
      • Index 000-516 - Turnouts - Resurfacing Projects
   e) Index 350-001 - Concrete Pavement Joints
   f) Index 522-001 - Concrete Sidewalk
   g) Index 522-002 - Detectable Warnings and Sidewalk Curb Ramps
   h) Misc. Traffic Control Signals and Devices (Including: Indexes 630-001, 634-002, 635-001, 659-010, 660-001, and 676-010
Superelevations – High Speed Roadways, Index 000-510

Removed Redundant Information Included in FDM 210.9
Superelevations – High Speed Roadways, Index 000-510

Added Note for Location of Shoulder Break for Concrete Pavement

2. For concrete pavement the first 1'-0" of the outside shoulder is cast with the outside travel lane and will have the same cross slope as the outside lane. The shoulder break over will occur at the outside edge of the outside slab.
Standard Plans – Primary Updates:

1) General Overview and Website

2) Misc. Indexes

   a) Index 000-506 - Miscellaneous Earthwork Details (Including: Indexes 160-001 & 120-001)
   b) Index 000-510 - Superelevation - High Speed Roadways
   c) Index 000-511 - Superelevation - Low Speed Roadways
   d) Index 000-515 - Turnouts and Driveways (Including: New Indexes 522-003 & 330-001)
      • Index 000-516 - Turnouts - Resurfacing Projects
   e) Index 350-001 - Concrete Pavement Joints
   f) Index 522-001 - Concrete Sidewalk
   g) Index 522-002 - Detectable Warnings and Sidewalk Curb Ramps
   h) Misc. Traffic Control Signals and Devices (Including: Indexes 630-001, 634-002, 635-001, 659-010, 660-001, and 676-010
Removed Redundant Information Included in FDM 210.9
Standard Plans – Primary Updates:

1) **General Overview and Website**

2) **Misc. Indexes**
   - a) Index 000-506 - Miscellaneous Earthwork Details (Including: Indexes 160-001 & 120-001)
   - b) Index 000-510 - Superelevation - High Speed Roadways
   - c) Index 000-511 - Superelevation - Low Speed Roadways
   - d) Index 000-515 - Turnouts and Driveways (Including: New Indexes 522-003 & 330-001)
     - Index 000-516 - Turnouts - Resurfacing Projects
   - e) Index 350-001 - Concrete Pavement Joints
   - f) Index 522-001 - Concrete Sidewalk
   - g) Index 522-002 - Detectable Warnings and Sidewalk Curb Ramps
   - h) Misc. Traffic Control Signals and Devices (Including: Indexes 630-001, 634-002, 635-001, 659-010, 660-001, and 676-010
Redevelopment Effort:

- Criteria vs Construction Information
  - e.g.: Geometric Requirements
    - Connection Width
    - Flare Distance
    - Radial Return Radius
    - Setback
  - Definitions (i.e., Connection Categories)
  - Florida Administrative Code (F.A.C.), Rules
    - Maintenance vs. Permittee Responsibilities
    - Minimum Requirements

<table>
<thead>
<tr>
<th>ELEMENT DESCRIPTION</th>
<th>CURBED ROADWAYS</th>
<th>FLUSH SHOULDER ROADWAYS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1-20 Trips/Day</td>
<td>21-800 Trips/Day or 6-60 Trips/Hour</td>
</tr>
<tr>
<td></td>
<td>3-way</td>
<td>2-way</td>
</tr>
<tr>
<td>CONNECTION WIDTH W</td>
<td>17 Min.</td>
<td>24 Min.</td>
</tr>
<tr>
<td>FLARE (Drop Curve) F</td>
<td>10 Min.</td>
<td>10 Min.</td>
</tr>
<tr>
<td>RETURNS (Radius) R &amp; U</td>
<td>N/A</td>
<td>△</td>
</tr>
<tr>
<td>ANGLE OF DRIVE Y</td>
<td>60°-90°</td>
<td>60°-90°</td>
</tr>
<tr>
<td>DIVISUAL ISLAND (Traffic Median)</td>
<td>4-22 Wide</td>
<td>4-22 Wide</td>
</tr>
<tr>
<td>SETBACK G</td>
<td>12 Min. All categories, See General Note No. 5.</td>
<td></td>
</tr>
</tbody>
</table>

- Side road intersection designs, with possible auxiliary lanes and channelization, may be necessary. Intersection design, with possible auxiliary lanes and channelization, should be considered for connections with more than 4,000 trips/day.
- "2-way" refers to one "in" movement and one "out" movement (i.e., not exclusive left or right turn lanes on the connection).
- Where more than 2 lanes in the turned connection are required, the 30' min. width may be increased to reduce interference between entering and exiting traffic which adversely affects traffic flow. These cases require documented site-specific study and design.
- Small radii may be used in lieu of flares as approved by the Department.

DESIGN NOTE: 1-way connections will be designed to effectively minimize unpermitted movements.

---

**Index 522-003 (Concrete Driveways)**

**Index 330-001 (Paved and Graded Driveways)**
Turnouts and Driveways, Old Indexes 000-515 & 000-516

Old SHEET 1 of 7:
Content Moved to FDM 214
Old SHEET 6 of 7:

Content Covered in F.A.C., Rule 14-96

### Material Types and Thicknesses in Driving Areas for All Connections

<table>
<thead>
<tr>
<th>Course</th>
<th>Materials</th>
<th>Connections</th>
<th>Roadway</th>
</tr>
</thead>
<tbody>
<tr>
<td>Structural</td>
<td>Asphaltic Concrete</td>
<td>2&quot;</td>
<td>18&quot;</td>
</tr>
</tbody>
</table>

NOTES:

1. The pavement should be structurally adequate to meet the expected traffic loads and should not be less than that shown above except as approved by the Department for special conditions. Other Department-approved equivalent pavements may be used at the discretion of the Engineer.

2. Auxiliary lanes and their transition tapers shall be the same structure as the adjoining travel way pavement thickness or any of the roadway structures tabulated above, whichever is thicker.

3. If an asphalt base course is used for a turnout, the thickness may be increased to match the edge of travel way pavement thickness in lieu of a separate structural course. 4" of Portland cement concrete will be acceptable in lieu of the asphalt base and structural course. See Notes 4 and 5 below.

4. A structural course is required for flexible pavements when they are used for auxiliary lanes serving more than a single connection.

5. Connections paved with Portland cement concrete shall be Class B5 concrete at least 4" thick. The Department may require greater thickness if called for in the plans or stipulated by permit. Materials and construction shall conform with FDOT Standard Specifications Sections 341, 350 and 522.

6. The Department may require other pavement criteria where local conditions warrant.

### Limitations of Construction and Maintenance for Flush Shoulder Roadway Connections

- Auxiliary lane pavement and crossover pavement shall be maintained by the Department.
- Department maintenance of turnout pavement extends 6" from edge of the travel way or on the edge of paved shoulders, whichever is greater. The remainder of any turnout pavement area on the right of way shall be maintained by the owner or his authorized agent. As an extension of construct maintain requirements, the Department may grade and shape existing material on company owned property that remains part of the mainline.
- Control and maintenance of drainage facilities within the right of way shall be the responsibility of the Department unless specified by the owner or the department.
- The maintenance and operation of highway lighting, traffic signs, associated equipment, and other necessary devices shall be the responsibility of the public agency.
- All pavement markings on the State Highway, including crosswalks and stop bars (on state maintained or state owned (not used) roadways) shall be maintained by the Department.
- All signing and marking installed for the operation of the common (such as stop bars and stop signs) that the connection shall be the responsibility of the permittee.
Turnouts and Driveways, Old Indexes 000-515 & 000-516

Old SHEET 7 of 7:

Content Moved to FDM 214
NEW - Concrete Flared Driveways, Index 522-003

SHEET 1 of 4:

Formatted to Resemble Index 522-002 for Curb Ramps

Construction Information from Sheet 2 of Old Index 000-515

Added Nomenclature Drawings to Define Components
NEW - Concrete Flared Driveways, Index 522-003

UTILITY STRIP < 10' WIDE

Drop Curb

Varies (See Sheets 3 & 4)

M

Gd

Ga

1'-0"
6'-0"
4'-0"
4'-0"
6'-0"
<10'

1'-0"
4'-0"

NEW - Concrete Flared Driveways, Index 522-003

Sheet 3 of 4:

Typical Driveway Profiles: Alpha-Numeric Identifications

Details from Old Index 000-515

Sheet 4 of 4 Similar
NEW - Paved and Graded Driveways, Index 330-001

SHEET 1 of 2:

Relocated Information Relating to Paved and Graded Driveways From Indexes 000-515 and 000-516

Construction Information from Sheet 5 of Old Index 000-515

Updated Notes to Remove Construction Phase Discussion Making
SHEET 2 of 2:

Construction Information from Old Index 000-516

Updated Material Requirements to Work for New Construction and Resurfacing Projects

Updated Cross-Sections

Added NEW Friction Course Transition Detail (DETAIL ‘A’)

NEW - Paved and Graded Driveways, Index 330-001
Standard Plans – Primary Updates:

1) General Overview and Website

2) Misc. Indexes

   a) Index 000-506 - Miscellaneous Earthwork Details (Including: Indexes 160-001 & 120-001)
   b) Index 000-510 - Superelevation - High Speed Roadways
   c) Index 000-511 - Superelevation - Low Speed Roadways
   d) Index 000-515 - Turnouts and Driveways (Including: New Indexes 522-003 & 330-001)
      • Index 000-516 - Turnouts - Resurfacing Projects
   e) Index 350-001 - Concrete Pavement Joints
   f) Index 522-001 - Concrete Sidewalk
   g) Index 522-002 - Detectable Warnings and Sidewalk Curb Ramps
   h) Misc. Traffic Control Signals and Devices (Including: Indexes 630-001, 634-002, 635-001,
      659-010, 660-001, and 676-010
Concrete Pavement Joints, Index 350-001

ALTERNATE KEYWAY AND HOOK BOLT

STEEL HOOK BOLT ASSEMBLY

CONTRACTION ASSEMBLY

NOTES
1. Longitudinal joints will not be required for a slope less than 2% or less than 18" width. For entrance and exit ramp joint details, see Sheet 4.
2. Arrangement of longitudinal joints are to be as directed by the Engineer.
3. All numbers, motor boxes and other projections into the pavement shall be boxed out with a P preformed expansion joint material.

EXPANSION ASSEMBLY

Note: Proprietary contraction and expansion assembly may be used. Products shall be introduced to the State Construction Office in accordance with section 03 of the Project Evaluation Procedure.
Standard Plans – Primary Updates:

1) General Overview and Website

2) Misc. Indexes

   a) Index 000-506 - Miscellaneous Earthwork Details (Including: Indexes 160-001 & 120-001)
   b) Index 000-510 - Superelevation - High Speed Roadways
   c) Index 000-511 - Superelevation - Low Speed Roadways
   d) Index 000-515 - Turnouts and Driveways (Including: New Indexes 522-003 & 330-001)
      • Index 000-516 - Turnouts - Resurfacing Projects
   e) Index 350-001 - Concrete Pavement Joints
   f) Index 522-001 - Concrete Sidewalk
   g) Index 522-002 - Detectable Warnings and Sidewalk Curb Ramps
   h) Misc. Traffic Control Signals and Devices (Including: Indexes 630-001, 634-002, 635-001, 659-010, 660-001, and 676-010
Concrete Sidewalk, Index 522-001

Sheet 1 of 2:

- Added Curb Inlets to Examples
- Clarified Intent of Expansion Joint Locations
- Revised: Specification 522

General Notes:
1. Concrete sidewalks to be constructed in accordance with Specification 522 and shall be placed with Curb Inlets Type 2 with A joint. All other concrete shall be placed in accordance with Specification 522 and shall be placed in accordance with approved drawings.
2. All sidewalks shall be constructed in accordance with Index 522-001.
3. For TYWITD, use Index 522-001.
4. Joint material shall be any acceptable sealed or open joint material having a thickness of not less than 1/8 inch not more than 1/4 inch.
5. Concrete sidewalks with edge beam through joint of the joint and sealing of operations performed in accordance with Index 522-001.

Plan:
- Walk with Utility Strip
- Sidewalk with Utility Strip

Longitudinal Section:
- Sawed Joints
- Open Joints

Railing Detail:
- Concrete Sidewalk on Curved Roadways
Concrete Sidewalk, Index 522-001

SHEET 1 of 2:

- **Added Curb Inlets to Examples**
- **Clarified Intent of Expansion Joint Locations**

---

**LEGEND:**

A- 1/2" Expansion Joints (Preformed Joint Filler) between the sidewalk and driveways, sidewalk-intersections, and all other fixed objects (e.g. drainage inlets and utility poles).
Standard Plans – Primary Updates:

1) General Overview and Website

2) Misc. Indexes

- a) Index 000-506 - Miscellaneous Earthwork Details (Including: Indexes 160-001 & 120-001)
- b) Index 000-510 - Superelevation - High Speed Roadways
- c) Index 000-511 - Superelevation - Low Speed Roadways
- d) Index 000-515 - Turnouts and Driveways (Including: New Indexes 522-003 & 330-001)
  - Index 000-516 - Turnouts - Resurfacing Projects
- e) Index 350-001 - Concrete Pavement Joints
- f) Index 522-001 - Concrete Sidewalk
- g) Index 522-002 - Detectable Warnings and Sidewalk Curb Ramps
- h) Misc. Traffic Control Signals and Devices (Including: Indexes 630-001, 634-002, 635-001, 659-010, 660-001, and 676-010
**GENERAL NOTES:**

1. **Cross Slopes and Grades:**

   A. Sidewalk, ramp, and landing slopes (i.e. 0.02, 0.05, and 1:12) shown in this Index are maximums. With approval of the Engineer, provide the minimum feasible slope where the requirements cannot be met.

   B. Landings must have cross-slopes less than or equal to 0.02 in any direction.

   C. Maintain a single longitudinal slope along each side of the curb ramp. Ramp slopes are not required to exceed 15 feet in length.

   D. Joints permitted at the location of Slope Breaks. Otherwise locate joints in accordance with Index 522-001. No joints are permitted within the ramp portion of the Curb Ramp.

**FY 2018-19 Standard Plans, Index 522-001**

**GENERAL NOTES**

1. **Cross Slopes and Grades:**

   A. Sidewalk, ramp, and landing slopes (i.e. 0.02, 0.05, and 1:12) shown in this Index are maximums. With approval of the Engineer, provide the minimum feasible slope where the requirements cannot be met.

   B. Landings must have cross-slopes less than or equal to 0.02 in any direction.

   C. Install ramp slopes along a single linear plane (i.e. no warps or varying slope). Ramp slopes are not required to exceed 15 feet in length.

   D. Joints permitted at the location of Slope Breaks. Otherwise locate joints in accordance with Index 522-001. No joints are permitted within the ramp portion of the Curb Ramp.
Updated CR-A and CR-B Plan View to Work With Current Sidewalk Width Requirements
See FDM 222
Added Option B for Parallel Sidewalk
Detectable Warnings and Sidewalk Curb Ramps, Index 522-002

SHEET 6 of 8:

Re-Indexed 160-001: Stabilization Details

Transition Slope 1:12
Pavement Relief (If Needed)
(See Section C-C)

Transition Slope 1:12
Varies (1'-6" Max.)

ISOMETRIC VIEW
(CR-C Shown, Other Similar)

Initial Surface of Pavement
Pavement Relief

Final Surface of Pavement Relief
Lip Of Curb

Varies (1'-6" Max.)

NOTE: Remove Elevated Pavement By Spading And Raising, Smooth Milling, or Grinding.

SECTION C-C
PAVEMENT RELIEF DETAILS
Detectable Warnings and Sidewalk Curb Ramps, Index 522-002

SHEET 8 of 8:

3'-0" Curb Transition From Full to Zero Height
Full Height Curb, 2'-0" Min.
2'-0" Detectable Warnings

Utility Strip

Crosswalk

LINEAR SIDEWALK RAMPS

Notes:
1. Where crosswalk markings are used, ramps must fall within the crosswalk limits.
2. The curb height is required at the bottom of the ramp outside of active travel lane.
3. Crosswalk widths and configurations vary; must conform to Index 731-001.
4. Flatway gap may be up to 2" for freight-only railways.

Added Curb Transition Details from Old Index 000-515
Standard Plans – Primary Updates:

1) General Overview and Website

2) Misc. Indexes

   a) Index 000-506 - Miscellaneous Earthwork Details (Including: Indexes 160-001 & 120-001)
   b) Index 000-510 - Superelevation - High Speed Roadways
   c) Index 000-511 - Superelevation - Low Speed Roadways
   d) Index 000-515 - Turnouts and Driveways (Including: New Indexes 522-003 & 330-001)
      • Index 000-516 - Turnouts - Resurfacing Projects
   e) Index 350-001 - Concrete Pavement Joints
   f) Index 522-001 - Concrete Sidewalk
   g) Index 522-002 - Detectable Warnings and Sidewalk Curb Ramps
   h) Misc. Traffic Control Signals and Devices (Including: Indexes 630-001, 634-002, 635-001, 659-010, 660-001, and 676-010
Miscellaneous 600 Series Indexes:

- Updated Layout
- Consolidated Notes
- Detailed to Current CADD Standards
- Included:
  - Index 630-001 (Conduit Installation Details)
  - Index 634-002 (Aerial Interconnect)
  - Index 635-001 (Pull and Splice Boxes)
  - Index 659-010 (Span Wire Mounted Sign Details)
  - Index 660-001 (Vehicle Loop Installation Details)
  - Index 676-010 (Cabinet Installation Details)
Questions?

Derwood Sheppard, P.E., M.Eng.
Standard Plans Publication Engineer
Central Office, Roadway Design
(850) 414-4334
derwood.sheppard@dot.state.fl.us