

ORIGINATION FORM

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

Contact Information:

Date: May 20, 2019
Originator: **Derwood Sheppard**
Phone: (850) 414-4334
Email: derwood.sheppard@dot.state.fl.us

Standard Plans:

Index Number: **570-001**
Sheet Number (s): All
Index Title: Permanent Erosion Control

Summary of the changes:

All Sheets; Renumbered.
Sheet 3: New Sheet - Added the SOD PLACEMENT AT PIPE/CULVERT END TREATMENTS details and table from Index 524-001 Sheet 2.

Commentary / Background:

Adds uniformity to Endwall Indexes, and aligns Sodding with Standard Specification 570 for Performance Turf.

Other Index Affected: 524-001, 430-010, and Others.

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

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

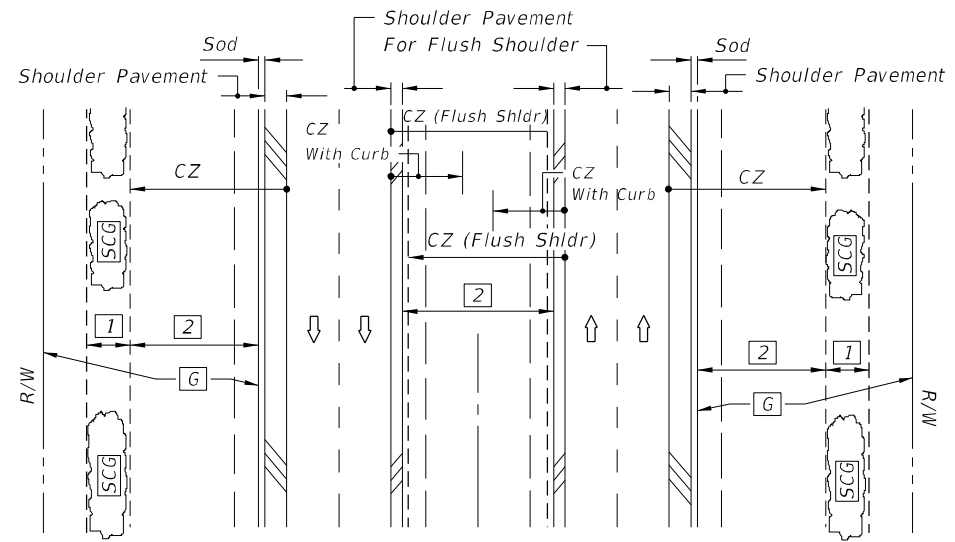
Origination Package Includes: (Email or hand deliver package to Derwood Sheppard)

- | Yes | N/A | |
|-------------------------------------|--------------------------|---|
| <input checked="" type="checkbox"/> | <input 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 |

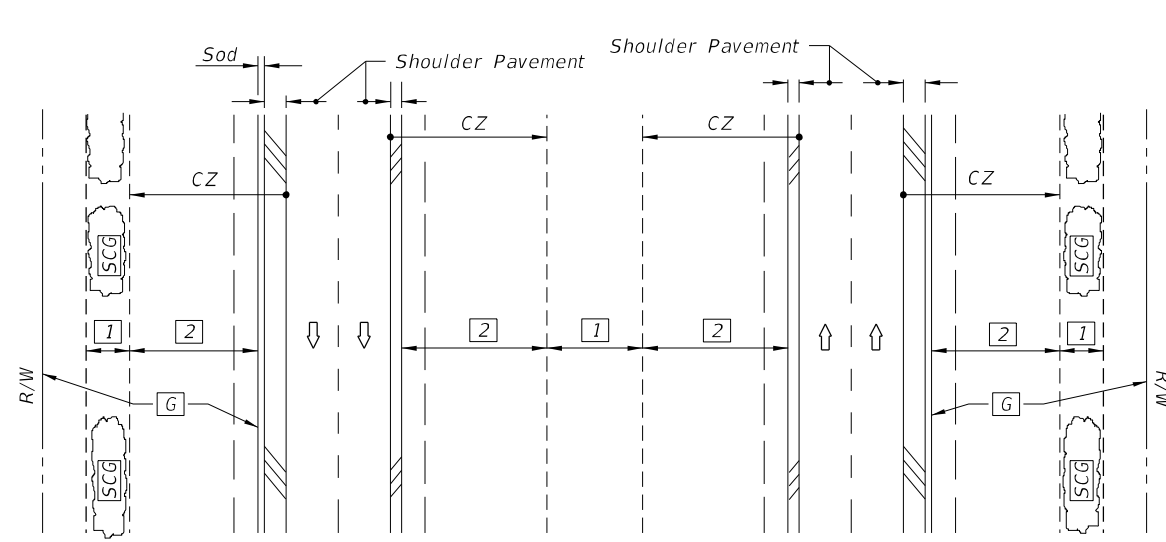
Implementation:

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

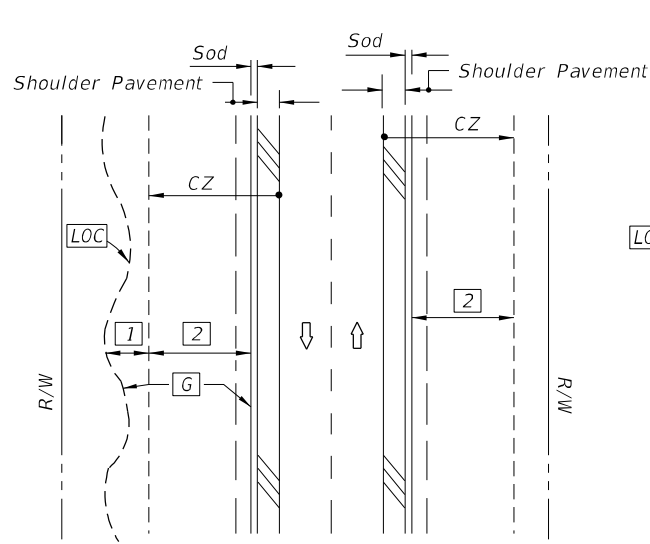
Contact the Roadway Design Office for assistance in completing this form



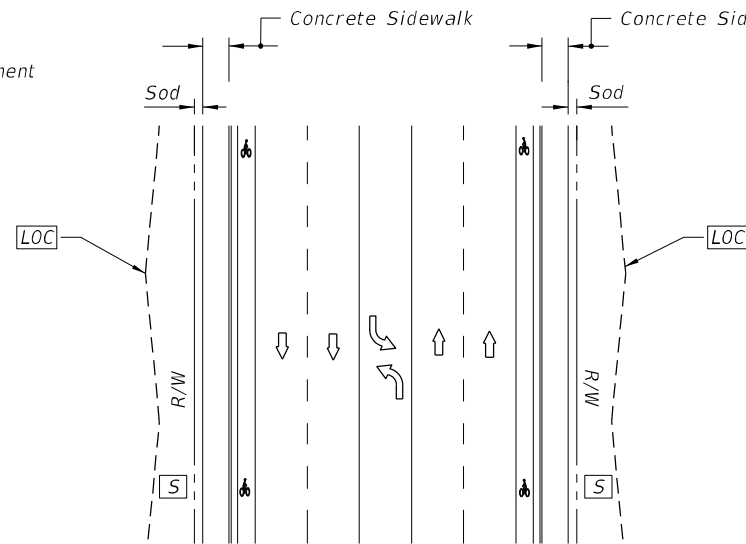
DIVIDED NARROW MEDIAN WITH OR WITHOUT CURBED MEDIAN



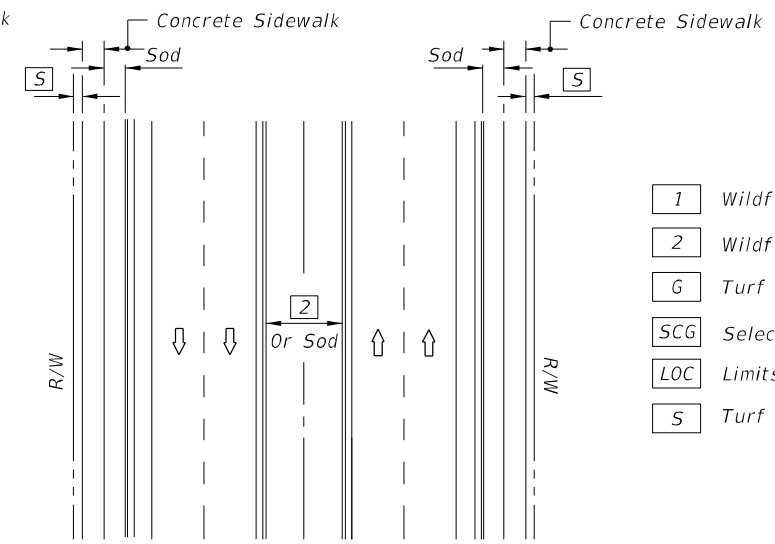
DIVIDED WIDE MEDIAN WITH OR WITHOUT CURBED MEDIAN



UNDIVIDED FLUSH SHOULDER



UNDIVIDED CURBED



DIVIDED CURBED

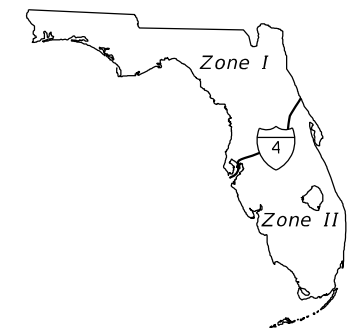
- LEGEND**
- 1 Wildflower Group #1
 - 2 Wildflower Group #2
 - G Turf (To Limit of Construction)
 - SCG Selective Clearing And Grubbing
 - LOC Limits Of Construction
 - S Turf

| WILDFLOWER SEEDING RATES | |
|---|--------|
| Common Name (Botanical Name) | lbs/ac |
| #1 Group | |
| Black-Eyed Susan (<i>Rudbeckia hirta</i>) | 2 |
| Lance-Leaf Tickseed (<i>Coreopsis lanceolata</i>) | 10 |
| Goldenmane Tickseed (<i>Coreopsis basalis</i>) | 10 |
| Leavenworth's Tickseed (<i>Coreopsis leavenworthii</i>) | 10 |
| Fire Wheel (<i>Gaillardia pulchella</i>) | 10 |
| Softhair Coneflower (<i>Rudbeckia mollis</i>) | 2 |
| Crimson Clover (<i>Trifolium incarnatum</i>) | 15 |
| #2 Group | |
| Annual Phlox (<i>Phlox drummondii</i>) | 10 |
| Moss Verbena (<i>Verbena tenuisecta</i>) | 6 |
| Leavenworth's Tickseed (<i>Coreopsis leavenworthii</i>) | 10 |
| Fire Wheel (<i>Gaillardia pulchella</i>) | 10 |
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| Note: Wildflower seeding rates are for restoring impacted wildflower areas. | |

GENERAL NOTES

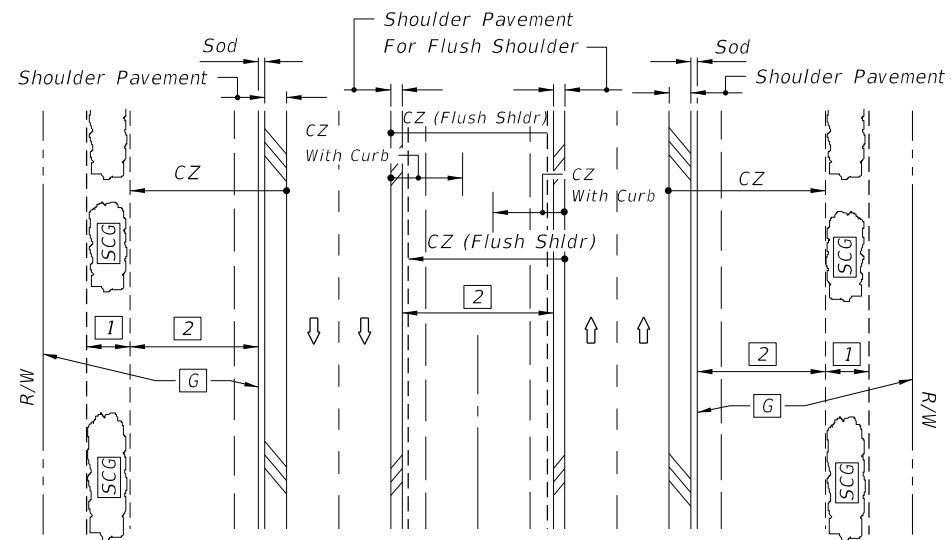
- All turf establishment shall be performed meeting the requirements of Specification 570.
- Activities such as clearing, grading, and excavating that will disturb one or more acres of land require coverage under the Generic Permit for Stormwater Discharge from Large and Small Construction Activities from the Florida Department of Environmental Protection, and implementation of appropriate pollution prevention measures to minimize erosion and sedimentation and properly manage stormwater.
- Confirm compatibility of wildflower with Seeding Zones.

SEEDING ZONES

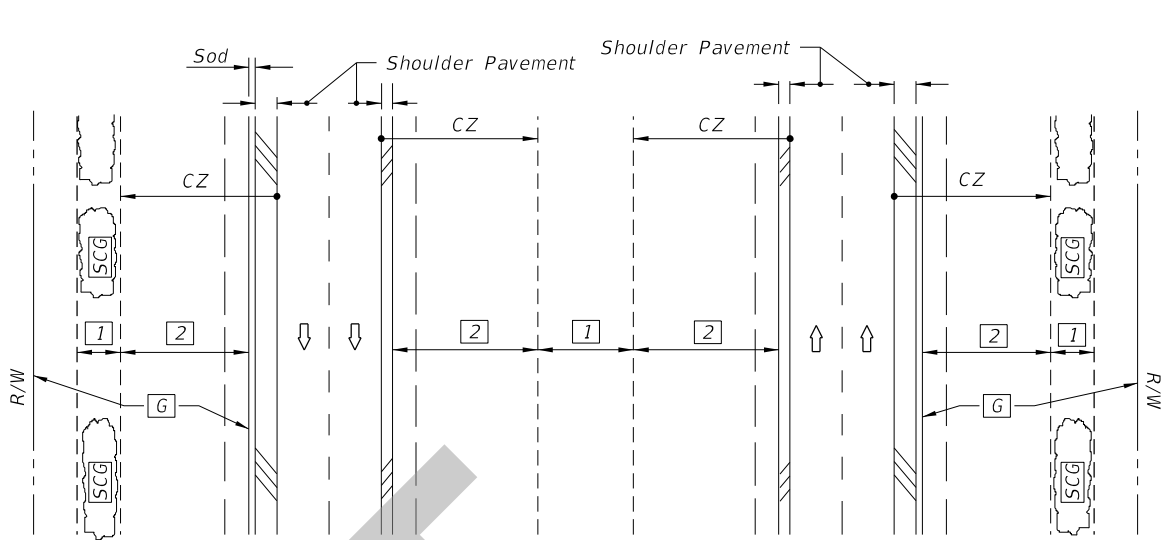


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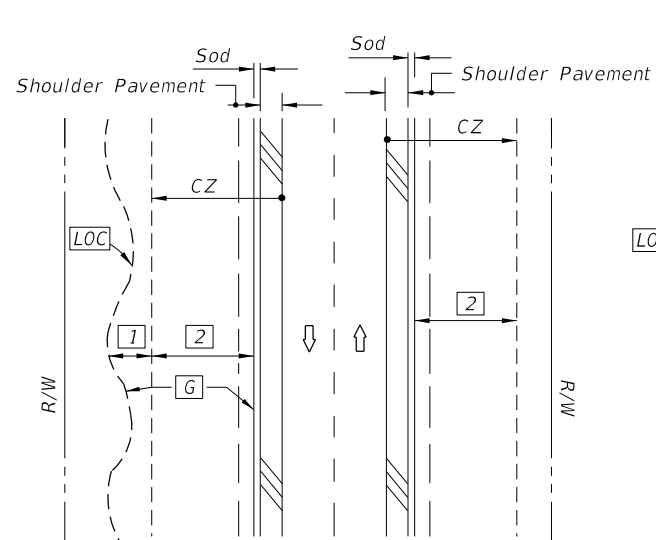
ADDED:
The SOD PLACEMENT AT PIPE/CULVERT END TREATMENTS details and the SOD QUANTITIES TABLE



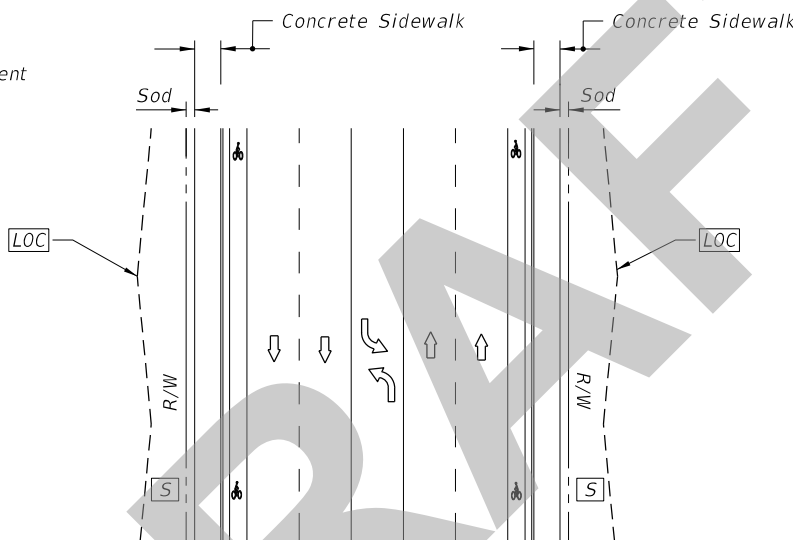
DIVIDED NARROW MEDIAN WITH OR WITHOUT CURBED MEDIAN



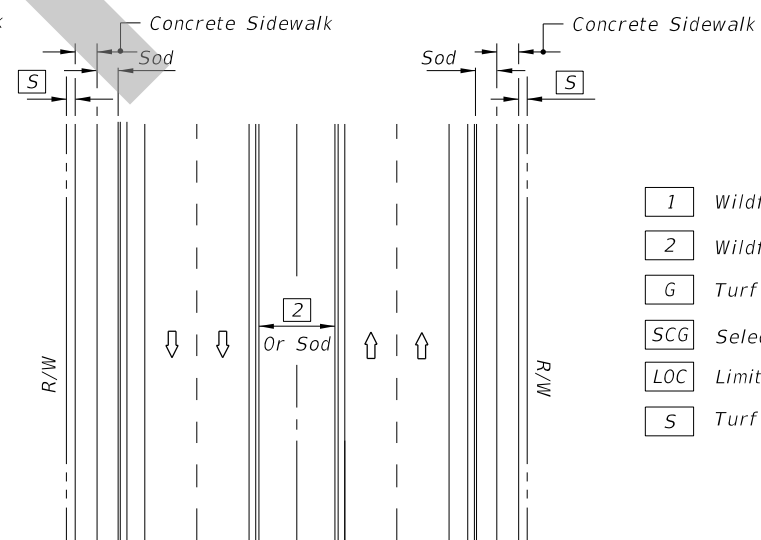
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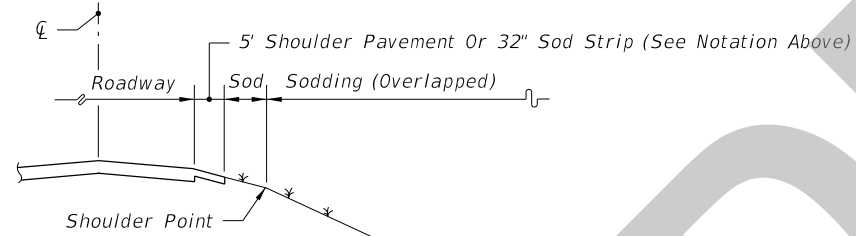
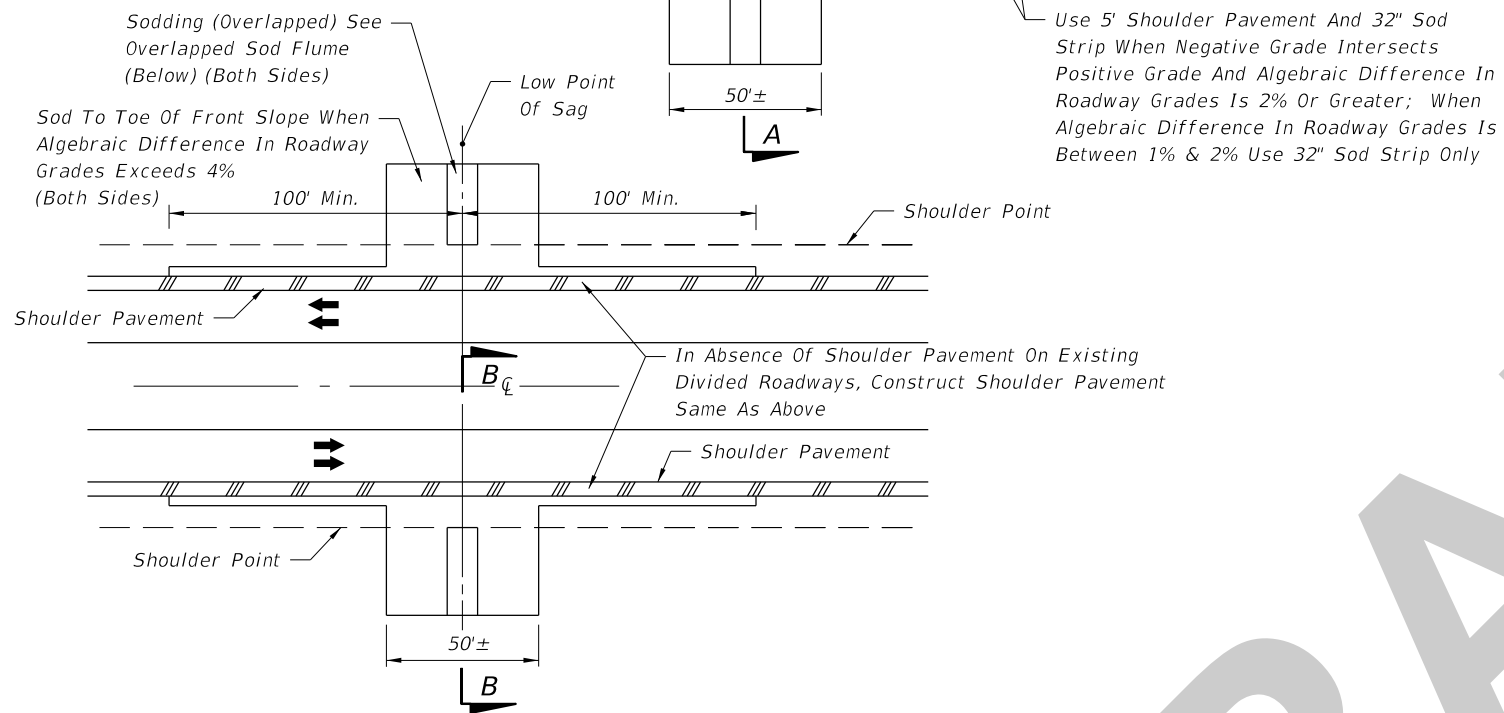
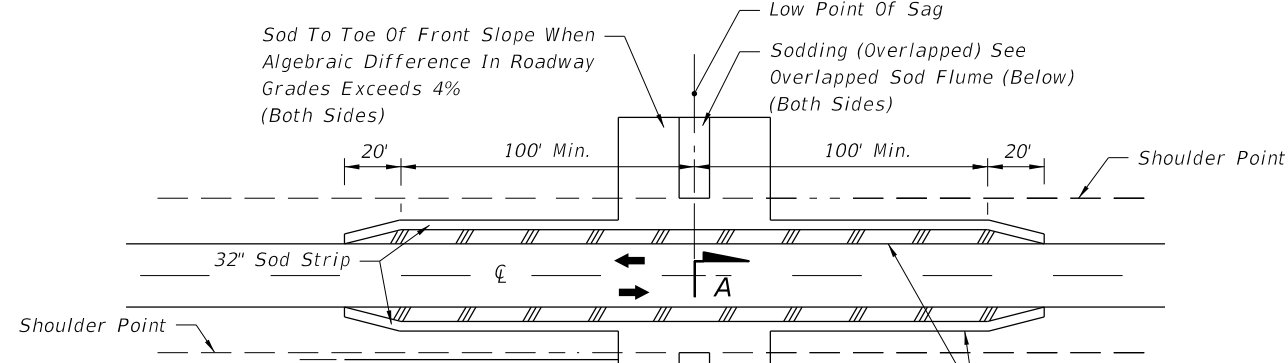
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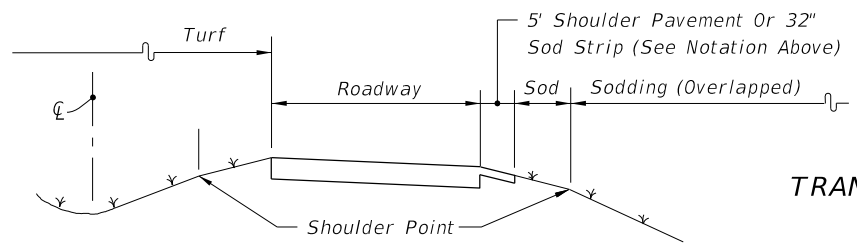
SEEDING ZONES



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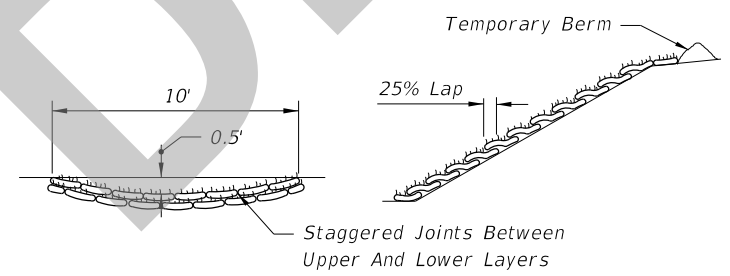


SECTION AA
(Symmetrical About \mathcal{Q})

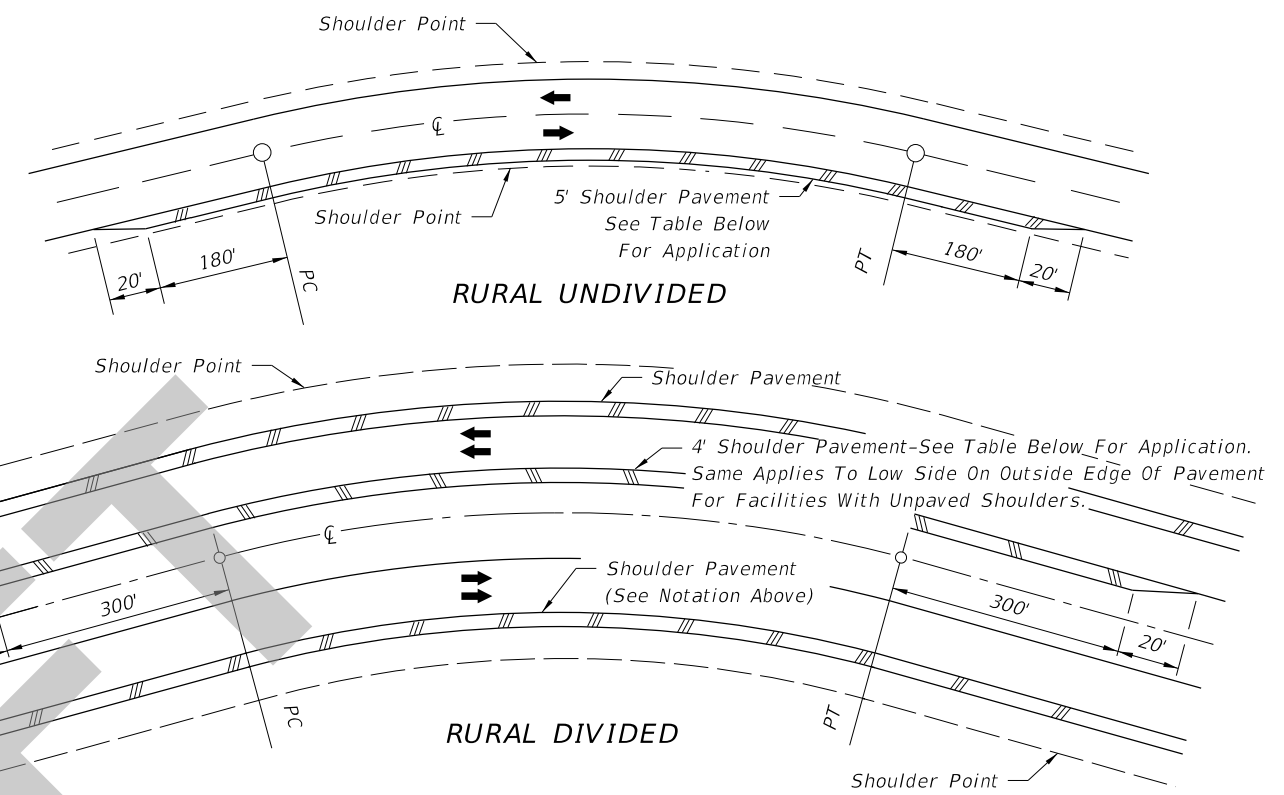


SECTION BB
(Symmetrical About \mathcal{Q})

SHOULDER AND SLOPE TREATMENT IN SAG VERTICAL CURVES



TRANSVERSE SECTION LONGITUDINAL SECTION
OVERLAPPED SOD FLUME



| CRITERIA FOR PAVING SHOULDER ON DIVIDED AND UNDIVIDED FACILITIES | | |
|--|-----------------|--|
| Design Speed (mph) | Degree Of Curve | Note: Shoulder Pavement is required on all curves meeting the criteria tabulated. For curves not meeting the criteria, shoulders are to be paved where erosion of the shoulder is evident or anticipated. |
| 30 | 7° Or Greater | |
| 40 | 5° Or Greater | |
| 50 | 4° Or Greater | |
| 60 | 3° Or Greater | |
| 65 | 3° Or Greater | |
| 70 | 2° Or Greater | |

SHOULDER AND SLOPE TREATMENT FOR SUPERELEVATED ROADWAYS

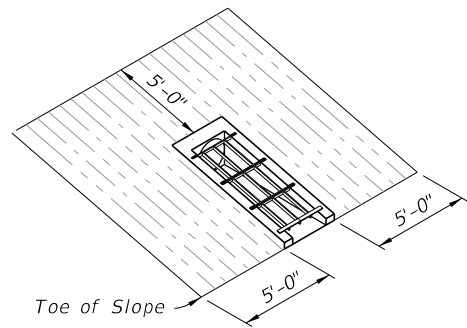
NOTES

1. These treatments are applicable to new construction, reconstruction and RRR projects. Project requirements for shoulder pavement and sodding that exceed the limits of this standard take precedence.
2. For sodding adjacent to ditches and at headwalls, see Index 524-001.
3. All front slopes steeper than 1:3 are to be sodded.

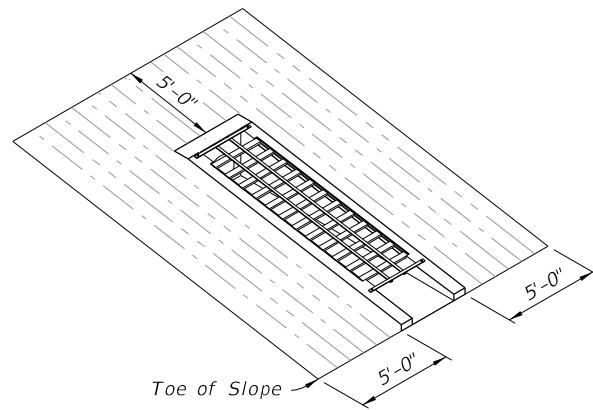
TREATMENTS FOR PROTECTION FROM CONCENTRATED ROADWAY RUNOFF EROSION AND SHOULDER RAVELING

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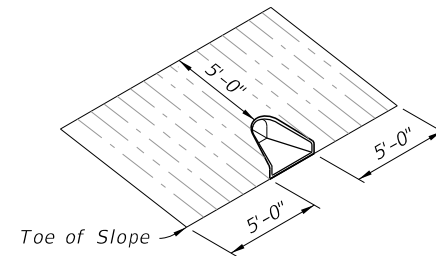
| | | | | | | | |
|---------------------------|----------|--------------|--|------------------------------|---------------------------|------------------|-----------------|
| LAST REVISION 11/01/19 | REVISION | DESCRIPTION: | | FY 2020-21 STANDARD PLANS | PERMANENT EROSION CONTROL | INDEX 570-001 | SHEET 2 of 3 |
|---------------------------|----------|--------------|--|------------------------------|---------------------------|------------------|-----------------|



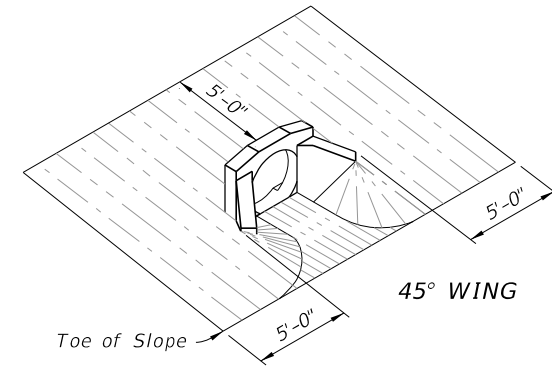
INDEX 430-010



INDEX 430-011

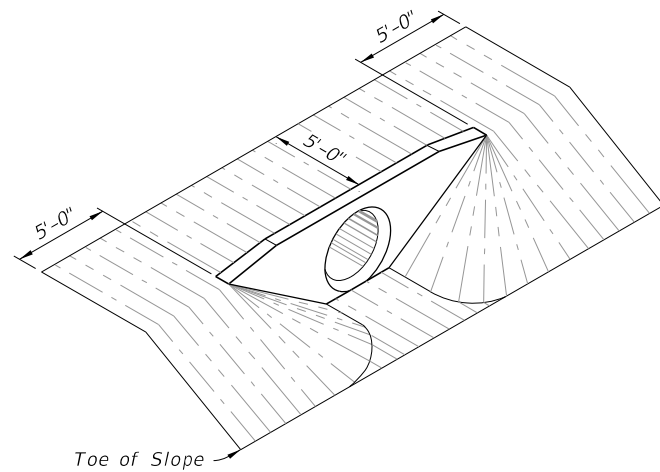


INDEX 430-020

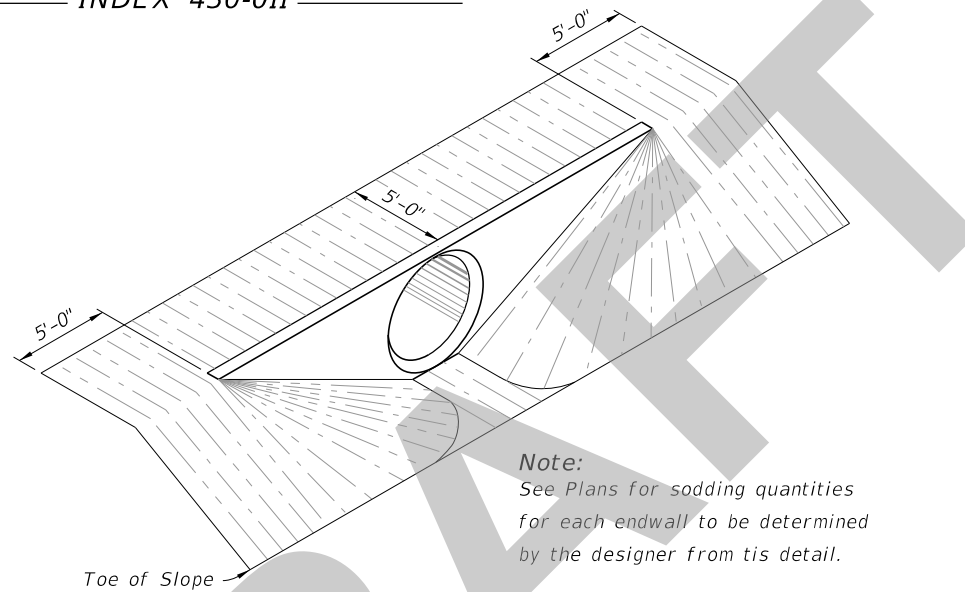


45° WING

INDEX 430-040

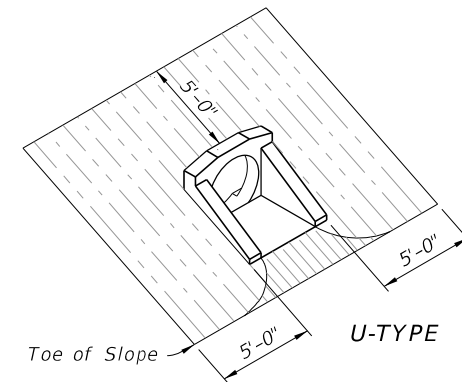


INDEX 430-030



INDEX 430-031 Through 430-034

Note:
See Plans for sodding quantities
for each endwall to be determined
by the designer from this detail.



U-TYPE

INDEX 430-040

TABLE 2: SOD QUANTITIES (SY)

| PIPE SIZE | INDEX 430-010 | INDEX 430-011 | | | | | INDEX 430-020 | INDEX 430-030 | | | | | | | | | | | | INDEX 430-040 | | | | | | |
|-----------|---------------|--------------------------|-----|-----|-----|-------|---------------|---------------|----|----|----|-----|----|-----|-----|-----|-----|-----|----|---------------|----|----|----|---|--|--|
| | 1:4 | SLOPE | | | | | ALL SLOPES | SLOPE | | | | | | | | | | | | SLOPE | | | | | | |
| | | 1:2 | 1:3 | 1:4 | 1:6 | PIPES | | PIPES | | | | | | | | | | | | PIPES | | | | | | |
| | | 1 | 1 | 1 | 1 | | | 1 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 1 | 1 | 1 | | |
| 12" | 1 | 1 | 1 | 1 | 1 | 10 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 1 | 1 | 1 | 1 | | | |
| 15" | 15 | 13 (15) | 16 | 17 | 23 | 11 | 19 | 21 | 24 | 22 | 26 | 29 | 26 | 30 | 33 | 34 | 38 | 43 | 15 | 17 | 20 | 25 | 25 | | | |
| 18" | 16 | 14 (16) | 17 | 19 | 25 | 11 | 21 | 24 | 27 | 25 | 29 | 33 | 30 | 34 | 38 | 39 | 44 | 50 | 16 | 18 | 22 | 28 | 28 | | | |
| 21" | | | | | | 12 | | | | | | | | | | | | | | | | | | | | |
| 24" | 19 | 15 (17) | 19 | 21 | 28 | 14 | 26 | 30 | 34 | 32 | 37 | 42 | 38 | 44 | 50 | 50 | 58 | 66 | 19 | 22 | 26 | 34 | 34 | | | |
| 27" | | | | | | 15 | | | | | | | | | | | | | | | | | | | | |
| 30" | 21 | 17 (18) | 21 | 24 | 32 | 16 | 31 | 37 | 42 | 39 | 46 | 53 | 46 | 55 | 63 | 62 | 74 | 85 | 21 | 25 | 30 | 40 | 40 | | | |
| 36" | | | | | | 18 | 37 | 44 | 52 | 46 | 56 | 65 | 56 | 67 | 79 | 76 | 91 | 107 | 24 | 29 | 35 | 47 | 47 | | | |
| 42" | | | | | | 19 | 43 | 53 | 62 | 55 | 67 | 79 | 67 | 82 | 96 | 91 | 111 | 132 | 27 | 32 | 39 | 54 | 54 | | | |
| 48" | | | | | | 21 | 50 | 62 | 73 | 64 | 79 | 93 | 78 | 97 | 115 | 108 | 133 | 158 | 30 | 36 | 44 | 61 | 61 | | | |
| 54" | | | | | | 21 | 57 | 71 | 85 | 74 | 92 | 110 | 91 | 113 | 136 | 126 | 157 | 188 | | | | | | | | |
| 60" | | | | | | 22 | | | | | | | | | | | | | | | | | | | | |
| 66" | | | | | | 25 | | | | | | | | | | | | | | | | | | | | |
| 72" | | | | | | 26 | | | | | | | | | | | | | | | | | | | | |
| | | () Endwall With Baffles | | | | | | | | | | | | | | | | | | | | | | | | |

SOD PLACEMENT AT PIPE/CULVERT END TREATMENTS

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