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CALIFORNIA TECHNICAL GUIDE 450-VI

TECHNICAL GUIDE NOTICE NO. 101

SUBJECT: Issue revised California Conservation Practice Standards and Specifications

Purpose:

To cancel practices, issue new and revised California and California Interim conservation practice standards and specifications, and update the Index of Conservation Practices.

Effective Date: When contents are received.

Explanation:

The following California and California Interim conservation practice standards and specifications have been added or revised:

Code	Practice Name	Std	Spec	PR	O&M	SOW
412	Grassed Waterway	•	•	•	•	•
423	Hillside Ditch	•			•	•
600	Terrace	•			•	•
620	Underground Outlet	•	•	•	•	•
635	Vegetated Treatment Area	•			•	•
638	Water and Sediment Control Basin	•	•	•	•	•
900	Concrete (3000 psi) Construction Specification		•			
901	Concrete (4000 psi) Construction Specification		•			

Grassed Waterway (Code 412) – Only one significant change was made to this standard. The “Criteria” section, under the Stability subsection, was changed to require stability analysis based on tractive stress, rather than the velocity approach previously required.

Hillside Ditch (Code 423) – Clarification was added to the section, “Condition Where Practice Applies,” to clearly state that the standard was not for use to protect buildings, roads, or other improvements. The Criteria section was changed to align design requirements with similar approaches in other standards. Ditch capacity requirements are now based on a 10 year storm-runoff peak flow, rather than the current criteria used that based design on a minimum cross sectional area. A maximum ditch spacing criteria was added.

Terrace (Code 600) – Significant editing has been performed on this standard, but no changes of significance have been made to its content. Design information that is contained in other agency technical references, such as the Revised Universal Soil Loss Equation (RUSLE) parameters and equations for computing ridge heights has been removed. Otherwise, the “Criteria” section of standard has not been substantially altered.

Underground Outlet (Code 620) – Significant editing has been performed on this standard, but no changes of significance have been made to its content. To add clarity and readability, every section of the standard has been rewritten. However, the underlying design requirements contained in the “Criteria” section have not been significantly modified from the current version of the standard.

Vegetated Treatment Area (Code 635) – formerly titled Wastewater Treatment Strip (Code 635): Conservation Practice Standard (635) Vegetated Treatment Area has been completely revised. The name change better reflects current technology and provides a clear separation from Conservation Practice Standard (393) Filter Strip. The existing practice standard design is based on the Environmental Protection Agency’s Technology Transfer Process Design Manual for Land Treatment of Municipal Wastewater. The practice Criteria section has been changed to reflect current technology for agricultural wastewater treatment developed and tested at several land grant universities. The vegetated treatment area is based on the soils capacity to infiltrate and retain runoff within the root zone and the vegetation’s agronomic nutrient requirements.

Water and Sediment Control Basin (Code 638) – Significant editing has been performed on this standard. Every section of the standard has been rewritten to add clarity and readability. However, the underlying design requirements contained in the “Criteria” section have not been significantly modified from the current version of the standard. The “Considerations”, “Plans and Specifications”, and “Operations and Maintenance” sections have been significantly expanded.

Concrete (3000 psi), Construction Specification (Code 900) – This is a construction specification for concrete with a minimum strength of 3000 psi at 28 days. Use of this specification is general and is appropriate for most concrete work in the field.

Concrete (4000 psi), Construction Specification (Code 901) – This is a specification for concrete with a minimum strength of 4000 psi at 28 days and a water-cement ratio of 0.45. This specification will be used for concrete agricultural waste storage tanks.

The following California Interim conservation practice is being cancelled. These documents will be moved to the archive section of the California eFOTG.

Code	Practice Name
635	Wastewater Treatment Strip

Operation and Maintenance Documents - Numerous specifications and Operation and Maintenance documents have been revised. New National policy states that state conservation practice life spans must match life spans established nationally. Operation and Maintenance documents have been revised accordingly. Specifications have been revised to remove the Operation and Maintenance Section as it doesn't affect construction operations and is covered by the Operation and Maintenance documents.

Specifications and Operation and Maintenance documents that have been revised are identified in the Indexes with an 11/09 date. They include the following practice codes: 309, 310, 313, 317, 320, 326, 348, 350, 351, 353, 356, 359, 360, 362, 378, 386, 388, 393, 396, 397, 398, 402, 410, 428series, 430series, 431, 432, 436, 441, 442, 443, 447, 450, 453, 455, 457, 464, 466, 468, 516, 521series, 533, 543, 544, 552, 554, 555, 558, 560, 561, 566, 568, 570, 574, 575, and 578.

The California eFOTG, located on the web at <http://www.nrcs.usda.gov/technical/efotg/> and in my.nrcs at <https://my.nrcs.usda.gov/default.aspx>, is being updated to reflect these changes to Section IV.

Optional Filing Instructions (for copies of FOTG maintained in Field Offices)

Replace the “Index of Conservation Practice Standards and Specifications Index – Alphabetical Index” contents, pages 1-12, dated July 2, 2009, with the new “Index of Conservation Practice Standards and Specifications Index – Alphabetical Index” contents, pages 1-12, dated November 30, 2009.

Replace “Index of Conservation Practice Standards and Specifications Index – Numerical Index” contents, pages 1-12, dated July 2, 2009, with the new “Index of Conservation Practice Standards and Specifications Index – Numerical Index” contents, pages 1-12, dated November 30, 2009.

Remove the old practice standards, specifications, practice requirements, O&M plans and Statements of Work and insert the new practice standards and documents issued above.



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ATTACHMENTS: (electronic) (Copies will be posted to the California eFOTG.)

DIST: O