



April 1, 2015

**SOUTH DAKOTA TECHNICAL GUIDE (SDTG)
NOTICE SD-388**

SECTION IV

The following standards have been updated:

- Waste Storage Facility (313)
- Herbaceous Weed Control (315)
- Conservation Cover (327)
- Conservation Crop Rotation (328)
- Contour Farming (330)
- Contour Buffer Strips (332)
- Prescribed Burning (338)
- Cover Crop (340)
- Water Well Decommissioning (351)
- Well Water Testing (355)
- Grade Stabilization Structure (410)
- Grassed Waterway (412)
- Irrigation Water Management (449)
- Roof Runoff Structure (558)
- Access Road (560)
- Heavy Use Area Protection (561)
- Stream Crossing (578)
- Cross Wind Trap Strips (589c)
- Terrace (600)
- Watering Facility (614)
- Waste Transfer (634)
- Water Well (642)

The following Standards have been added:

- Structures for Wildlife (649)

The following Standards have been deleted:

- Fuel Break (383)

The following Documentation Requirements have been updated:

- Herbaceous Weed Control (315)
- Conservation Cover (327)
- Conservation Crop Rotation (328)
- Contour Farming (330)
- Contour Buffer Strips (332)
- Cover Crop (340)
- Tree/Shrub Site Preparation (490)
- Prescribed Grazing (528)
- Cross Wind Trap Strips (589c)

DIST: E

The following Job Sheet has been updated:

- Herbaceous Weed Control (315)
- Cover Crop (340)
- Integrated Pest Management (595)

The following Statements of Work have been updated:

- Conservation Cover (327)
- Conservation Crop Rotation (328)
- Contour Farming (330)
- Contour Buffer Strips (332)
- Cover Crop (340)
- Water Well Decommissioning (351)
- Well Water Testing (355)
- Grade Stabilization Structure (410)
- Irrigation Water Management (449)
- Access Road (560)
- Cross Wind Trap Strips (589c)
- Terrace (600)
- Watering Facility (614)
- Water Well (642)
- Structures for Wildlife (649)

The following Operation and Maintenance plan has been updated:

- Stream Crossing (578)

The Section IV Index has been updated. Also attached to this notice are standard revision statements for your reference.



CHAD KACIR
Acting State Conservationist

Practice Standards Revision Narrative for April 2015

Ecological Sciences

Herbaceous Weed Control (315) – The plans and specifications section was updated so it matched the Documentation Requirements.

Conservation Cover (327) – The national standard was adopted for SD. Due to the adoption of this revised national standard, the managing pest purpose was deleted and “beneficial organism habitat” was added to the pollinator purpose of the practice. Also included is one new reference: National Agronomy Technical Note 9, Preventing or Mitigating Potential Negative Impacts of Pesticides on Pollinators Using IPM and Other Conservation Practices.

Conservation Crop Rotation (328) – The national standard was adopted for SD which changed the definition slightly from “Growing crops in a planned sequence on the same field” to “A planned sequence of crops grown on the same ground over a period of time (i.e., the rotation).” The NRCS resource concerns were associated with each of the conservation practice purposes. Job Sheet is now the SD-JS-Agron RUSLE2 generated job sheet; SD-JS-328 is obsolete

Contour Farming (330) – The national standard was adopted for SD. Reduce transport of sediments and reduce transport of contaminant purposes were separated into two purposes. Criteria was updated to reflect the change. The job sheet is now the SD-JS-Agron RUSLE2 generated job sheet; SD-CPA-29 is obsolete.

Contour Buffer Strips (332) – The national standard was adopted for SD. Due to the adoption of this revised national standard, an additional practice purpose to reduce transport of nutrients downslope and combined the additional criteria for this purpose with the additional criteria to reduce transport of sediment and other waterborne contaminants downslope. The job sheet is now the SD-JS-Agron RUSLE2 generated job sheet; SD JS 332 is obsolete.

Prescribed Burning (338) – The weather parameters were changed so that they matched with the burn plan template.

Cover Crop (340) – The national standard was adopted for SD. Due to the adoption of this revised national standard, the following purposes deleted were: (1) promote biological nitrogen fixation and reduce energy use, and (2) increase biodiversity. These two purposes are captured elsewhere in the criteria. Added additional criteria to address the need to terminate cover crops within the NRCS Cover Crop Termination Guidelines. Provided additional criteria for haying and grazing cover crops. Added a link to the cover crop termination guide in the standard. Updated excel job sheet SD-JS-340 to reduce the full seeding rate of winter wheat and rye from 100 lbs to 60 lbs/ac

Cross Wind Trap Strips (589c) – The purpose to induce windborne sediment deposition was removed as this is covered under the purpose to reduce soil erosion and induce windblown sediment deposition. The purpose to provide food and cover for pollinators and wildlife was deleted. In general criteria, the language was changed from using university extension guides to NRCS approved technical references for seeding and establishment. The job sheet is WEPS generated; SD-CPA-53 is obsolete.

Structures for Wildlife (649) – The national standard was adopted for SD.

Practice Standards Revision Narrative for April 2015

Engineering

Waste Storage Facility (313) – Revisions were made the residual storage volume requirements and the rebar requirements in concrete walls.

Water Well Decommissioning (351) – This standard is replacing the Water Well Decommissioning Standard. There is a General statement about Laws and Regulations added and SD Admin R 74:02:04 was added to the References. Sealing material later was increased and fill material information was changed to match SD State Regulations. Only minor changes to the Statement of Work.

Water Well Testing (355) - A general statement was added about laws and regulations.

Grade Stabilization Structure (410) – The laws and regulations section was adjusted. The table numbers have switched compared to the previous state version.

Grassed Waterway (412) – Revisions were made to adapt the requirements of the previous South Dakota standard into the new national standard.

Irrigation Water Management (449) - This standard is being replaced by the new national practice standard. This is a major rewrite with a major emphasis on what goes into the Irrigation Water Management Plan (see section on Plans and Specifications). Only minor changes to the Statement of Work.

Roof Runoff Structure (558) – There are no major revisions to this standard.

Access Road (560) – The new national standard contained references to conservation practice standards that haven't been adopted in South Dakota these standards were removed. The laws and regulations section was adjusted.

Heavy Use Area Protection (561) - The major revision is the removal of fabricated windbreaks from this standard.

Stream Crossing (578) – A general statement about laws and regulations was added. A redundant paragraph about laws and regulations was removed. An aquatic passage statement was added to be consistent with the previous standard. Clarity was added on adjacent roadway erosion control. Minimum size for multi-use crossings was added and is not part of the national standard. Clarification was added to explain the use of fencing for exclusion. More clarification was added to SD law and regulation. A minimum reinforcement requirement for concrete slab, a design standard for precast slabs, and a design standard for heavy traffic on concrete was added. Tidal influence and reference to MassDOT rules was removed.

Terrace (600) – A laws and regulations section was added. Figures used for terrace spacing were included. The new national standard's terrace spacing was changed to match South Dakota's previous spacing language.

Watering Facility (614) – A laws and regulations section was added. A new national standard was released in September 2014 which added a section for watering ramps. Extensive edits have been made at the state level to maintain the criteria in the previous South Dakota standard released in October 2011.

Waste Transfer (634) - There are no major revisions to this standard.

Water Well (642) – Added to this standard is a SD well driller's license requirement, site investigation and suitability requirements, information for wellhead protection, statement requiring the sealing of undesirable water zones, slab requirement for terminus, requirements for steel casing and minimal size requirements, plastic and fiberglass references and design regulations, sampling and testing statements to comply with laws and regulations, considerations for potential effects on cultural, historical, archeological or scientific resources, fencing consideration, plans and specifications for increased documentation for better service and record, flowing well restriction for SD State Regulations, and a reference to SD State Regulations.

The grouting and sealing requirement was increased to meet SD State Regulations.
The casing material requirements and the filter pack requirements were modified to meet SD State Regulations.

The Statement of Work was modified to be similar to the Waste Storage Facility (313) Statement of Work.