

**NATURAL RESOURCES CONSERVATION SERVICE
CONSERVATION PRACTICE GENERAL SPECIFICATIONS**

GRADE STABILIZATION STRUCTURE

(No.)

CODE 410

SCOPE

The work shall consist of furnishing all materials and equipment necessary for completing all construction operations for the installation of a grade stabilization structure used to control the grade in natural or constructed channels, as specified on the plans or as staked in the field.

Construction operations shall be carried out in such a manner that erosion and air and water pollution are minimized and held within legal limits. State and local laws concerning pollution abatement must be followed. The completed job shall present a workmanlike finish and shall conform to the lines, grades, and elevations shown in the drawings and as staked in the field.

All operations shall be carried out in a safe and skillful manner. Safety and health regulations shall be observed and appropriate safety measures used.

The specifications for grade stabilization structures within the scope of the Oklahoma NRCS Conservation Practice Standard, Water and Sediment Control Basin (638) shall meet or exceed the Oklahoma NRCS Conservation Practice Specification, Pond (378), unless otherwise specified in this specification. The specifications for grade stabilization structures within the scope of the Oklahoma NRCS Conservation Practice Standard, Pond (378) shall meet or exceed the Oklahoma NRCS Conservation Practice Specification, Pond (378), unless otherwise specified in this specification. Grade Stabilization Structures within the scope of TR-60 shall be constructed according to the specifications in the National Engineering Handbook, Part 642.

PUBLIC AND PRIVATE UTILITIES

Utilities are defined to be public or private, overhead and underground power or communication lines, and any pipelines. The landowner\operator\contractor shall conduct their own search and discovery for utilities in order to lessen or avoid potential damages, injuries or loss of life. Prior to construction, the landowner\operator should complete an OK-ENG-45 UTILITIES INVENTORY FORM to document known utilities in order to comply with State law prior to any ground disturbance and return it to a USDA-NRCS representative.

QUALITY CONTROL

Quality Control of all materials and construction procedures is the responsibility of the landowner\operator and contractor. NRCS will make periodic review(s) of the work for the benefit of the agency which will include the final construction check.

NRCS will be notified 72 hours prior to critical point of inspections. Inspections will only be performed during normal NRCS working hours Monday through Friday. Critical point of inspections will vary by structure type. For an embankment with a pipe installation, critical points of inspection include the inspection and approval of the foundation of the embankment before placement of the earthfill; installation of foundation and embankment drains; and the final subgrade and installation of the conduit.

Conservation practice general specifications are reviewed periodically and updated if needed. To obtain the current version of this specification, contact the Natural Resources Conservation Service.
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**NRCS, OK
September 2015**

Critical points of inspection for other types of structures will be specified in the Construction Detail section of this specification.

CONCRETE

Concrete placement tolerances shall be as follows:

1. Concrete slab thickness shall not be more than $\frac{1}{2}$ inch less than the designed thickness measured perpendicular to the surface.
2. Formless concrete chute inlet crest shall be within ± 0.1 foot of the design elevation.
3. Outlet floor of the formless concrete chute shall not be more than 0.1 foot above the design elevation.
4. All other elevations and dimensions for formless concrete chutes or other concrete slabs shall equal or exceed design requirements.

ADDITIONAL CONSTRUCTION DETAILS

Refer to the appropriate approved design plans for site specific additional items of work and construction details.