

STATEMENT OF WORK**Dike (356)****Missouri**

These deliverables apply to this individual practice. For other planned practice deliverables refer to those specific Statements of Work.

DESIGN

Deliverables:

1. Survey notes which show that a thorough and detailed site survey was completed.
 - a. Survey notes shall be in accordance with NRCS Technical Release 62, Engineering Field Handbook, Chapter 1 and/or standard industry practice.
 - b. If survey equipment with automatic / electronic data collection devices is used, a print out of the data and a disk with the electronic files shall be included in the file.
 - c. Elevations shall be referenced to a bench mark. A temporary bench mark with an assumed elevation is acceptable.
2. A plot of the survey data with the scale shown as a bar scale shall be maintained in the file.
3. Design documentation that will demonstrate that the criteria in NRCS practice standard have been met and are compatible with other planned and applied practices.
 - a. Practice purpose(s) as identified in the conservation plan
 - b. List of required permits to be obtained by the client
 - c. Compliance with NRCS national and state utility safety policy (NEM Part 503-Safety, Subpart A - Engineering Activities Affecting Utilities 503.00 through 503.06)
 - d. Practice standard criteria related computations and analyses to develop plans and specifications including but not limited to:
 - i. Geology and Soil Mechanics (NEM Subpart 531a)
 - Earthfill materials
 - Moisture and compaction requirements
 - ii. Hydrology/Hydraulics
 - Discharge Flows
 - Water Surface Profiles With and Without Dike
 - Evaluations for Floodplain Development Permits as Required
 - Spillway Capacities (type, sizes, elevations)
 - iii. Structural including dike classification
 - NRCS Job Classification
 - Hazard Classification
 - Earthfill and Excavation Quantities
 - Borrow areas
 - Material Quantities (pipes, anti-seep collars, trash racks, . . .)
 - Clearing Quantities
 - iv. Vegetation
 - (See Critical Area Planting 342 Statement of Work)
 - v. Environmental Considerations
 - vi. Safety Considerations (NEM Part 503-Safety, Subpart A, 503.10 through 503.12)
4. Written plans and specifications including sketches and drawings shall be provided to the client that adequately describes the requirements to install the practice and obtain necessary permits...
5. Design Report and Inspection Plan as appropriate (NEM Part 511, Subpart B Documentation, 511.11 and Part 512, Subpart D Quality Assurance Activities, 512.30 through 512.32).
6. Operation and Maintenance Plan (National Operation and Maintenance Manual 500.70 and 500.40 through 500.42)
7. Certification that the design meets practice standard criteria and comply with applicable laws and regulations (NEM Subpart A, 505.03 (a) (3)).
8. Design modifications during installation as required.

STATEMENT OF WORK**Dike (356)****Missouri****INSTALLATION**

Deliverables

1. Pre Installation conference with client and contractor.
2. Verification that client has obtained required permits.
3. Staking and layout according to plans and specifications including applicable layout notes.
4. Installation inspection (according to inspection plan as appropriate).
 - a. Actual materials used (Part 512, Subchapter D Quality Assurance Activities, 512.33)
 - b. Inspection records
5. Facilitate and implement required design modifications with client and original designer
6. Advise client/NRCS on compliance issues with all federal, state, tribal, and local laws, regulations and NRCS policies during installation.
7. Certification that the installation process and materials meets design and permit requirements.

CHECK OUT

Deliverables

1. As-Built documentation.
 - a. Location and extent of practice units applied
 - Profile and cross sections of excavations
 - Profile and cross sections of embankment
 - Profile and cross sections of spillways
 - Size and elevations of pipe inlets and outlets
 - Vegetation establishment if required (See Critical Area Planting 342 Statement of Work)
 - b. Drawings
 - c. Final quantities
2. Certification that the installation meets NRCS standards and specifications and is in compliance with permits (NEM Subpart A, 505.03 (c) (1)).
3. Progress reporting.

REFERENCES

- NRCS Field Office Technical Guide (eFOTG), Section IV, Conservation Practice Standard - Dike, 356
- National Operation and Maintenance Manual
- NRCS Technical Release 60, Earth Dams and Reservoirs
- NRCS National Engineering Manual (NEM).
- NRCS National Environmental Compliance Handbook
- NRCS Cultural Resources Handbook