STATEMENT OF WORK
GRADE STABILIZATION STRUCTURE (410)
Arizona (May 2010)

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

DESIGN

Deliverables:

1. 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 Federal, State, Tribal and local utility safety laws and NRCS policy found in the NEM Part 503-Safety, Subpart A - Engineering Activities Affecting Utilities 503.00 through 503.06, and Supplement, §AZ503.02, Subpart A. A completed and signed Utility Check Sheet, NRCS-ENG-006 form or equivalent, must be included as part of the case file.
    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)
        ii. Hydrology/Hydraulics
        iii. Structural including hazard class as appropriate
        iv. Vegetation
        v. Environmental Considerations
        vi. Safety Considerations (NEM Part 503-Safety, Subpart A, 503.10 through 503.12)
2. 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. The drawings shall meet all the graphic and content requirements as set forth in the National Engineering Manual (NEM) Part 541 “Drafting” Subpart A “Drawings” and shall include, but are not limited to:
    a. Project location map
    b. The “Call Before You Dig-(Call 811)” Logo or an equivalent.
    c. System overview and layout
    d. Plan, profiles and section or detail views of all system components and appurtenances, as required.
3. 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).
4. Operation and Maintenance Plan that includes details for this practice and all applicable system components.
5. Certification that the design meets practice standard criteria and comply with applicable laws and regulations (NEM Subpart A, 505.03 (a) (3)).
6. Design modifications during installation as required.

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. Extent of practice units applied
    b. Drawings, Each sheet of the drawing shall have an “As-Built” stamp and date on them. Any changes or modification, addition or deletions to the approved drawings shall be clearly identified with red ink in the as-built drawings.
    c. As Built drawings shall meet the requirements as set forth in the NEM Part 512 “Construction”, Subpart F “As-Built Drawings” including any Arizona supplement thereof.
    d. 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 - Grade Stabilization Structure, 410
- NRCS National Engineering Manual (NEM).
- NRCS Technical Release 60, Earth Dams and Reservoirs
- NRCS National Environmental Compliance Handbook
- NRCS Cultural Resources Handbook

State Contact: Design Engineer