

## TERRACE

### DESIGN AND CONSTRUCTION CHECKLIST

#### DESIGN

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1. Compliance with NRCS national and state utility safety policy (NEM Part 503-Safety, Subpart A - Engineering Activities Affecting Utilities 503.00 through 503.06).
2. Practice standard criteria related computations and analyses to develop plans and specifications including but not limited to:
  - a. Drainage Area
  - b. Average Land Slope for each terrace
  - c. Horizontal interval for each terrace
  - d. Required Capacity
  - e. Required Height/Depth
  - f. Design Cross Section
  - g. Vegetation (See practice standard 342-Critical Area Planting)
    - i. Specifications for area to be seeded, if needed
    - ii. Calculations of seeded area

Document design using appropriate forms or approved computer programs.
3. Construction Specifications:
  - a. Construction specification for earthwork
  - b. Construction specifications for vegetation
  - c. Material specifications for all materials incorporated into the work
4. Plans
  - a. Plan view showing location of each terrace in the system, terrace number, terrace length and terrace spacing
  - b. Typical sections showing design dimensions of the terraces
4. Operation and Maintenance Plan
5. Certifications that the design meets practice standard criteria and comply with applicable laws and regulations (NEM Subpart A, 505.03(b)(2)).
6. Design modifications during installation as required.

#### INSTALLATION

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1. Pre Installation conference with landowner.
2. Staking and layout according to plans and specifications including applicable layout notes.
3. Installation inspection
  - a. Actual materials used meet specifications
  - b. Installation methods and location meet plans and specifications
4. Facilitate and implement required design modifications with landowner
5. Certification that the installation process and materials meets design and permit requirements.

#### CHECK OUT

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1. As-Built documentation.
  - a. Measurements of a minimum of 1 terrace per field (check the terrace that appears least likely to meet specifications). Check includes
    - i. Profile of channel and ridge
    - ii. Cross section of channel and ridge
    - iii. Computation of cross sectional area and storage volume
  - b. Record Length of each completed terrace
  - c. Statement certifying the adequacy and condition of the outlet
  - d. Final quantities calculations
2. Certification that the installation meets NRCS standards and specifications and is in compliance with permits (NEM Subpart A, 505.03(c)(1)).

## REFERENCES

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- NRCS Field Office Technical Guide (eFOTG), Section IV, Conservation Practice Standard – Terrace, 600
- NRCS Construction Specification, Terrace, 600
- NRCS O&M Plan, Terrace, 600
- NRCS Field Office Technical Guide (eFOTG), Section IV, Conservation Practice Standard – Critical Area Planting, 342