

ILLINOIS STATEMENT OF WORK
WATER AND SEDIMENT CONTROL BASIN (638)

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

DESIGN

Deliverables:

1. Design documents that demonstrate criteria in practice standard have been met and are compatible with 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, Section 503.00 through 503.06)
 - d. List of facilitating/component practices (example – Underground Outlet, 620)
 - e. NRCS Job Class as identified on IL-ENG-35.
 - f. 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), including soil borings as applicable.
 - ii. Hydrology/Hydraulics, including but not limited to:
 1. Drainage area for each basin.
 2. Runoff Curve Number.
 3. Design storm (s) return period.
 4. Rainfall Runoff and Sediment volumes.
 - iii. Design Survey
 1. Field survey notes shall conform to NEM Part 540 and present legible, clear and concise data. Include a hard copy of the raw data and reduced survey if using an electronic data collector.
 2. Include temporary benchmark elevations, descriptions, and locations.
 3. Can be combined with layout survey.
 - iv. Design Documentation
 1. Basin interval/spacing calculation, including erosion control provisions as well as planning for equipment widths.
 2. Capacity of basin storage area.
 3. Basin cross section type, ridge dimensions, channel grades and widths, ridge length.
 4. Outlet capacity and stability.
 - v. Vegetation.
 - vi. Environmental Considerations.
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 including but not limited to:
 - a. Location map with legal description
 - b. Plan view drawing, showing the layout and stations of the practice to be constructed, and relevant benchmark elevations and descriptions. Show locations of critical features on the plan view, as needed to clearly describe how the constructed practice should look.
 - c. Typical cross sections of the basin ridge(s).
 - d. Profile(s) of the basin(s) with tile line(s).
 - e. Details of the outlet system, including riser inlets.
 - f. Seeding requirements, if applicable.
 - g. Construction and material specifications.
 - h. Utility safety statement requiring notification of the Illinois One-Call System prior to construction.
 - i. Additional notes as necessary to identify avoidance and protection of areas and boundaries associated with cultural resources or threatened or endangered species.
 - j. Signature/initials and date for design and design check. Design check to be completed by an individual other than the designer.

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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 developed in accordance with the requirements of IL NRCS Conservation Practice Standard 638, Water and Sediment Control Basin.
5. Certification that the design meets practice standard criteria and complies with applicable laws and regulations (NEM Subpart A, 505.03 (a) (3)).
6. Design modifications during installation as required.

INSTALLATION

Deliverables

1. Preconstruction conference with client and contractor (NEM Part 512, Subpart B, IL 512.13(d)). Verification that client has obtained required permits.
2. Staking and layout according to plans and specifications including applicable layout notes.
3. Installation inspection (according to inspection plan as appropriate).
 - a. Actual materials used (Part 512, Subchapter D Quality Assurance Activities, 512.33)
 - b. Inspection records
4. Facilitate and implement required design modifications with client and original designer
5. Advise client/NRCS on compliance issues with all federal, state, tribal, and local laws, regulations and NRCS policies during installation.
6. 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. As-built plan is required when a significant change in design occurs during construction or when the job is designated Class V or higher. Identify "As Built" on plan. Superimpose changes on the as-built plan using a different color or otherwise clearly differentiating the as-built dimensions.
 - c. For practices not requiring an as-built plan, survey notes documenting critical dimensions, elevations, and materials are sufficient.
 - 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

- Field Office Technical Guide (eFOTG), Section IV, Conservation Practice Standard - Water and Sediment Control Basin, 638.
- National Engineering Manual
- NRCS National Environmental Compliance Handbook
- NRCS Cultural Resources Handbook