DEPARTMENT OF THE ARMY PERMIT

Regional Permit 16
Bank Stabilization Activities
in the State of Illinois

Permittee: This Regional Permit authorizes activities proposed by the general public, railroads, transportation departments, pipeline and utility companies, and government agencies.

Number: Illinois Regional Permit 16 (IRP-16)
Expiration Date: May 31, 2021
Issuing Office: U.S. Army Corps of Engineers, St. Louis District
Regulatory Branch, 1222 Spruce Street
St. Louis, Missouri 63103-2833

You are authorized to perform work in accordance with the terms and conditions specified below.

NOTE: The term "you" and its derivatives, as used in this permit, means the permittee or any future transferee. The term "this office" refers to the appropriate district or division office of the Corps of Engineers having jurisdiction over the permitted activity or the appropriate official of that office acting under the authority of the commanding officer.

Project Description. The following bank stabilization techniques will be authorized under this regional permit: blanket riprap, seawalls, gabions, minor bank shaping with appropriate biotechnical streambank protection techniques, bendway weirs, longitudinal peaked stone riprap, stone hardpoints, stream barbs, and rock riffles. For design projects not specifically listed, the plans must be approved by the Corps of Engineers and the Illinois Department of Natural Resources, Office of Water Resources.

Project Location. This regional permit will authorize work associated with fill and/or structural materials placed for bank stabilization in waters of the United States within the State of Illinois, except in Cook, DuPage, Kane, Lake, McHenry and Will Counties.
Permit Conditions:

General Conditions:

1. The time limit for completing the work authorized ends on the date specified on page 1. If you commence or are under contract to commence this activity before the date the Regional permit expires, you will have twelve months from that date to complete your activity under the present terms and conditions of this Regional permit.

2. You must maintain the activity authorized by this permit in good condition and in conformance with the terms and conditions of this permit. You are not relieved of this requirement if you abandon the permitted activity, although you may make a good faith transfer to a third party, in compliance with General Condition 4 below. Should you wish to cease to maintain the authorized activity or should you desire to abandon it without a good faith transfer, you must obtain a modification of this permit from this office, which may require restoration of the area.

3. If you discover any previously unknown historic or archaeological remains while accomplishing the activity authorized by this permit, you must immediately notify this office of what you have found. We will initiate the Federal and state coordination required to determine if the remains warrant a recovery effort or if the site is eligible for listing in the National Register of Historic Places.

4. If you sell the property associated with this permit, you must obtain the signature of the new owner in the space provided and forward a copy of the permit to this office to validate the transfer of this authorization.

5. If a conditioned water quality certification has been issued for your project, you must comply with the conditions specified in the certification as special conditions to this permit. For your convenience, a copy of the certification is attached if it contains such conditions. (Condition is not applicable for Section 10 Permits.)

6. You must allow representatives from this office to inspect the authorized activity at any time deemed necessary to ensure that it is being or has been accomplished in accordance with the terms and conditions of your permit.

Special Conditions:

1. Design Specifications. The Corps of Engineers may add additional special conditions as deemed appropriate to protect the aquatic environment on a case-by-case basis for any activity authorized under this regional permit.

   a. Blanket riprap.

      - Bank shoreline protection must be less than 1,000 feet in length and must contain less than two cubic yards of fill material per running foot below the ordinary high water mark.

      - For projects involving continuous placement of riprap along the bank, toe of the bank, or other similar applications, the cross sectional area of the natural channel shall not be reduced by more than 10 percent nor the volume of material exceed 2 cubic yards per lineal foot of stream bank or shoreline. The bank may be graded to obtain a flatter slope and to lessen the quantity of material required.

      - A well distributed mix of stones weighing from 20 to 200 pounds should be used.
- The riprap should be from 12 inches to 18 inches thick. Portions of the riprap layer under water should be increased to 18 inches to 30 inches thick.

- Riprap materials shall not be placed at a steeper slope than 2:1 (2 horizontal to 1 vertical) for dumped riprap and 1.5:1 for hand-placed riprap. A bedding layer of either six inches of gravel or filter material must be used if required to prevent loss of fines through the riprap material. The riprap must be sized to withstand the anticipated forces from flood flows or wave action.

- A riprap trench or apron should be provided at the base of the protected bank for stability.

- Both ends of the project should be tied into the bank, with the most common method being to excavate a trench in the bank and fill it with riprap. Additionally the project should be tied into the bank at regular intervals of between 100 feet and 200 feet.

b. **Seawalls and Gabions.** Seawalls and gabions shall be constructed at or landward of the water line as determined by the normal pool elevation unless:

- It is constructed in alignment with any existing seawall(s) or gabion structure(s).

- The volume of material placed, including the structure, will not exceed 2 cubic yards per lineal foot.

- The cross sectional area of the natural channel shall not be reduced by more than 10 percent nor the volume of material exceed 2 cubic yards per lineal foot of stream bank or shoreline. The bank may be graded to obtain a flatter slope and to lessen the quantity of material required.

c. **Bank shaping with appropriate biotechnical streambank protection techniques.** Minimal grading and bank shaping activities for state-of-the-art natural vegetative stabilization methods, such as the willow post method, will be authorized under this regional permit. No material produced as a result of grading and bank shaping shall be deposited into any water of the US, including wetland areas. Material produced by grading and bank shaping shall be pulled back from the water’s edge.

d. **Hard points.** Hard points are short rock intrusions extending only a short distance from the bank. Jetties, which extend from the bank further than hard points, are specifically excluded from this regional permit. Hard points may be used if they are keyed into the bank and if they do not extend from the bank more than the minimum necessary to achieve adequate erosion protection. The Corps of Engineers will determine on a case by case basis whether the proposed hard point is acceptable for the stream.

e. **Longitudinal peaked stone riprap.** Longitudinal peaked stone riprap is a continuous stone dike placed along the toe of the bank. Riprap with a gradation from maximum stone size of 400 pounds to 50 to 70 percent smaller than a 90 pound stone size is placed in a pyramid or triangular shaped cross section at the toe of an eroding bank without shaping the banks. The riprap should be tied into the bank at both the upstream and downstream ends. Additionally, short riprap dikes should be tied into the bank at regular intervals of between 100 feet and 200 feet. The construction of longitudinal peaked stone riprap is not authorized under this Regional Permit on the Mississippi River or on the Illinois River.
f. **Bendway weirs.** A bendway weir is a low-level rock sill located in the channel of a bend angled 0 degrees to 25 degrees upstream into the stream flow. The structures are spaced approximately 50 feet to 150 feet apart. The weirs should be attached (keyed into) the outer bank of the stream bend. The weirs should be built of well-graded stone with an upper weight limit of 650 pounds to 1000 pounds. Typically, the weirs are 2 feet high at the stream end and rise to 4 feet high at the bank end. Bendway weirs act to redirect the flow away from the eroding bank as flow over the weir is redirected at right angles to the downstream face of the weir. Bendway weirs may extend into the channel a maximum of 50% of stream width. Bendway weirs should be constructed based on engineering/design principles developed by the U.S. Army Corps of Engineers. The construction of bendway weirs are not be authorized under this Regional Permit on the Mississippi River or on the Illinois River.

g. **Stream barbs.** A stream barb is a rock structure which projects out from the bank on a sharp upstream angle of 20 to 30 degrees, measured from bank tangent line. Stream barbs are designed to direct the stream current away from the eroding bank to the center of the channel. The barbs will be built of well-graded stone with an upper weight limit of 650 pounds to 1000 pounds. At the bank, the top of the barbs will be constructed to the design height, typically 4 to 8 feet above the streambed. The top of the barbs will incline from the bank end to streambed level at the streamward end. The incline will be according to design, typically 10% (10 horizontal to 1 vertical). On silt-bottom streams, the barbs will be keyed into the streambed by excavating a core trench for the full length of the barb and backfilling with riprap rock. The barbs will be keyed into the outer bank. The bank key trench will be excavated perpendicular to the streambank from streambed to top-of-bank, and backfilled with riprap rock. Stream barbs are designed to extend into the channel a maximum of 35% of stream width. Stream barbs should be constructed on engineering/design principles developed by the U.S. Army Corps of Engineers and the U.S. Department of Agriculture, Natural Resources Conservation Service. The construction of stream barbs is not be authorized under this Regional Permit on the Mississippi River or on the Illinois River.

h. **Rock Riffles.** Rock riffle structures are low-head weir structures constructed over the streambed from bank-to-bank. Constructed rock riffles are used to stabilize the streambed where downcutting erosion is occurring. Rock riffles will be built of well-graded riprap rock with an upper weight limit of 650 pounds to 1000 pounds. The largest individual stones will be sorted from the stockpiled rock to be placed as emergent boulders and crest stone. The crest of the riffle will be "V" shaped on the centerline of the structure. From the crest, the downstream slope will be no steeper than 20H:1V, and the upstream slope will be no steeper than 4H:1V. Riffle structures will be keyed into the streambed and bank using riprap rock. Bed keys will be constructed from bank-to-bank with a minimum depth of 2 feet and minimum width of 4 feet. Bank keys will be constructed, into both banks, with a minimum depth of 5 feet and a minimum width of 4 feet, extending upward on a 1.5h to 1v slope toward the top-of-bank. Rock riffles shall be constructed to design standards of the U.S. Department of Agriculture, Natural Regional Permit on the Mississippi River or on the Illinois River.

2. **General restrictions.** These general restrictions must be met for all bank stabilization projects to be authorized under this regional permit.

   a. The total affected length of shoreline, stream bank, or channel to be protected shall not exceed 1000 feet.

   b. Generally, only those reaches of shoreline, stream bank, and channel which are experiencing erosion are covered by this regional permit. No material shall be placed in excess of the minimum needed for erosion protection.
c. This Regional Permit does not authorize any of the following activities: stream channelization; channel modifications such as excavating pilot channels; the placement of materials other than on an area of eroded bank; and projects which conflict with a Federal, state, or local project or improvement.

d. The following materials may not be used for projects to be authorized under this regional permit: auto bodies, tires, garbage or debris, scrap lumber, metal refuse, roofing materials, broken concrete containing asphalt, asphalt or other bituminous materials, or any material which would cause water pollution as defined by the Illinois Environmental Protection Agency. If approval is not specifically granted for a specific material, it is deemed to not be allowable under this Regional Permit.

e. The following materials may be used: suitable clean materials, free from debris, trash, and other deleterious materials; rock, broken concrete, steel sheet piling, cellular blocks, fabric-formed concrete, concrete filled fabric mats, gabion baskets, rock and wire mattresses, sand/cement filled bags, geotechnical fabric materials, natural vegetation (with proper grading), and treated timber. If broken concrete is used, all protruding material such as reinforcing rods shall be cut flush with the surface of the concrete and removed from the construction area. If approval is not specifically granted for a specific material, it is deemed to not be allowable under this Regional Permit.

f. All material utilized shall be properly sized or anchored to resist anticipated forces of current and wave action.

g. Materials shall be placed in such a way which will not cause erosion, or the accumulation of debris on properties adjacent to or opposite the project.

h. Materials shall be placed so that the modified bank full width and cross sectional area of the channel will conform to, or be no more restrictive than, that of the natural channel upstream and downstream of the site.

i. Disturbance of vegetation shall be kept to a minimum during construction to prevent erosion and sedimentation. All disturbed areas shall be seeded or otherwise stabilized upon completion of construction.

j. Excess material excavated during the construction of bank or shoreline protection shall be placed in accordance with local, state, and Federal laws and shall not be placed in a floodway or in any water of the U.S. including wetlands.

k. The use of natural materials will be considered for bank protection on designated segments of the Nationwide River Inventory where feasible and appropriate. When not feasible and/or appropriate and after riprap is placed, the proponent will promote revegetation of the area protected.

l. Endangered Species.

   - Individual projects proposed under this regional permit must not jeopardize the continued existence of any species or the critical habitat of any fish and wildlife, or plant which is designated as endangered or threatened pursuant to the Endangered Species Act of 1973 as amended (16 U.S.C. 1531 et seq.).

   - The habitat range of the decurrent false aster (Boltonia decurrens) is located within the floodplain of the Mississippi River (St. Clair, Alexander, Jackson, Monroe, Randolph, and Union Counties) and the floodplain of the Illinois River (Bureau, Fulton, Jersey, Marshall, Mason, Morgan, Peoria, Putnam, Schuyler, Tazewell, Woodford, Brown, Calhoun, Cass, Green, Grundy, LaSalle, Madison, Pike, and Scott Counties). The proponent of any project proposed within one of these counties in the 100-year floodplain of the Mississippi River or the Illinois River or where a tributary stream flows into the 100-year floodplain of
Mississippi River or the Illinois River must arrange for the project site to be investigated by a qualified botanist or environmental scientist for the occurrence of the Federally threatened plant species. Written documentation, provided by the botanist or environmental scientist, must be provided to the Corps of Engineers for consultation with the U.S. Fish and Wildlife Service to ensure compliance with the Endangered Species Act of 1973 as amended (16 U.S.C. 1531 et seq.).

m. Projects in environmentally sensitive areas (wetlands, endangered species, etc.) shall be excluded from processing under this regional permit. Also, if in the opinion of the Corps of Engineers, the project may not be in the public interest due to any unique circumstances, the Corps may require an individual permit on a case-by-case basis.

n. This Regional Permit does not authorize the discharge of fill into wetland areas.

o. If, at any future date, the Illinois Department of Natural Resources, Office of Water Resources, (IDNR/OWR) or the Corps of Engineers determines that the bank stabilization obstructs or impairs navigation, or in any way infringes on the rights or interests of the public or any individual party, the permittee agrees to make necessary modifications to the material as determined by the IDNR/OWR or the Corps of Engineers.

p. The project proponent must notify the appropriate public or private utility in advance of any work within 250 feet of an underground utility so that the utility is not damaged during construction activities.

q. Individual projects to be authorized under the regional permit must not be located in the proximity of property listed in the National Register of Historic Places nor in the vicinity of properties listed in the Federal Register as eligible for inclusion in the National Register of Historic Places unless, after coordination with the State Historic Preservation Officer of the State of Illinois and the Advisory Council on Historic Preservation, a determination of "no effect" or "no adverse effect" is made in accordance with criteria established by 36 CFR 800.4.

Under this Regional Permit, the Rock Island District of the U.S. Army Corps of Engineers authorizes the permittee to initiate consultation with State Historic Preservation Officers and Tribal Historic Preservation Officers (SHPO/THPO) and other consulting parties as provided for at 36 CFR 800.2(c)(5) in the Advisory Council on Historic Preservation regulations for the Protection of Historic Properties; Recommended Approach for Consultation on Recovery of Significant Information from Archaeological Sites; Final Rule and Notice (Federal Register Vol. 64, No. 95, pp. 27071-27087, May 18, 1999). All findings and determinations resulting from the consultation shall be provided to the Corps of Engineers which shall remain legally responsible for all findings and determinations once agreed to by the Corps and formalized through the process provided for in 36 CFR 800. If, during construction, the permittee uncovers an item or items that may be of historic or archaeological interest or if important new historic data comes to light in the project area, the District Engineer shall be notified immediately and the work will be delayed a sufficient time to carry out the requirements for post-review discoveries as set out at 36 CFR 800.13 (b-d) and/or the requirements of the Illinois Human Skeletal Remains Protection Act (20 ILCS 3440/), as applicable.
r. Individual projects to be authorized under this Regional Permit must not be located within sites included in the National Register of National Landmarks or any other areas named in Acts of Congress or Presidential proclamations as National Rivers, National Wilderness Areas, National Recreational Areas, National Lakeshores, National Parks, National Monuments, National Wild and Scenic River Systems, National Wild Life Refuge System, and such areas as may be established under Federal Law for similar and related purposes unless the activity is specifically authorized by the appropriate Federal agency.

s. Parties proposing to undertake work under the provisions of this Regional Permit must provide prior notification to the appropriate Corps of Engineers District. Information submitted by the proponent must clearly determine whether or not the proposed work complies with the conditions and limitations of the regional permit. The proponent will be notified within 15 workdays if the project is in compliance with the conditions of the regional permit and whether project construction may proceed. However, this will not alleviate the need of the proponent to obtain other applicable state or local authorization.

t. The Corps of Engineers will determine on a case by case basis if a particular project proposal will fall under the auspices of this Regional Permit.

5. Water quality certification. The conditions listed in the attached letter from the Illinois Environmental Protection Agency, Log #C-0032-16 dated May 3, 2016, are considered to be part of this Regional Permit.

6. The permittee understands and agrees that, if future operations by the United States require the removal, relocation, or other alteration, of the structure or work herein authorized, or if, in the opinion of the Secretary of the Army or his authorized representative, said structure or work shall cause unreasonable obstruction to the free navigation of the navigable waters, the permittee will be required, upon due notice from the Corps of Engineers, to remove, relocate, or alter the structural work or obstructions caused thereby, without expense to the United States. No claim shall be made against the United States on account of any such removal or alteration.
Further information:

1. Congressional Authorities: You have been authorized to undertake the activity described above pursuant to:

   (X) Section 10 of the Rivers and Harbors Act of 1899 (33 U.S.C. 403).

   (X) Section 404 of the Clean Water Act (33 U.S.C. 1344).


2. Limits of this authorization.

   a. This permit does not obviate the need to obtain other Federal, state, or local authorizations required by law.

   b. This permit does not grant any property rights or exclusive privileges.

   c. This permit does not authorize any injury to the property or rights of others.

   d. This permit does not authorize interference with any existing or proposed Federal project.

3. Limits of Federal Liability. In issuing this permit, the Federal Government does not assume any liability for the following:

   a. Damages to the permitted project or uses thereof as a result of other permitted or unpermitted activities or from natural causes.

   b. Damages to the permitted project or uses thereof as a result of current or future activities undertaken by or on behalf of the United States in the public interest.

   c. Damages to persons, property, or to other permitted or unpermitted activities or structures caused by the activity authorized by this permit.

   d. Design or construction deficiencies associated with the permitted work.

   e. Damage claims associated with any future modification, suspension, or revocation of this permit.

4. Reiance on Applicant's Data: The determination of this office that issuance of this permit is not contrary to the public interest was made in reliance on the information you provided.

5. Reevaluation of Permit Decision. This office may reevaluate its decision on this permit at any time the circumstances warrant. Circumstances that could require a reevaluation include, but are not limited to, the following:

   a. You fail to comply with the terms and conditions of this permit.

   b. The information provided by you in support of your permit application proves to have been false, incomplete, or inaccurate (See 4 above).

   c. Significant new information surfaces which this office did not consider in reaching the original public interest decision.
Such a reevaluation may result in a determination that it is appropriate to use the suspension, modification, and revocation procedures contained in 33 CFR 325.7 or enforcement procedures such as those contained in 33 CFR 326.4 and 326.5. The referenced enforcement procedures provide for the issuance of an administrative order requiring you to comply with the terms and conditions of your permit and for the initiation of legal action where appropriate. You will be required to pay for any corrective measures ordered by this office, and if you fail to comply with such directive, this office may in certain situations (such as those specified in 33 CFR 209.170) accomplish the corrective measures by contract or otherwise and bill you for the cost.

6. Extensions. General condition 1 establishes a time limit for the completion of the activity authorized by this permit. Unless there are circumstances requiring either a prompt completion of the unauthorized activity or a reevaluation of the public interest decision, the Corps will normally give favorable consideration to a request for an extension of this time limit.

[Signature]
Anthony P. Mitchell
Colonel, U.S. Army
Commander & District Engineer
St. Louis District
BY: Danny D. McClendon
Chief, Regulatory Branch

[Date]

5/31/11

When the structures or work authorized by this permit are still in existence at the time the property is transferred, the terms and conditions of this permit will continue to be binding on the new owner(s) of the property. To validate the transfer of this permit and the associated liabilities associated with compliance with its terms and conditions, have the transferee sign and date below.

__________________________  __________________________
Transferee                             Date
MAY - 3 2016

Rock Island District
Corps of Engineers
Regulatory Branch, PO Box 2004
Clock Tower Building
Rock Island, IL 61204-2004

Louisville District
Corps of Engineers
Newburgh Regulatory Branch
P.O. Box 489
Newburgh, IN 47629-0489

Memphis District
Corps of Engineers
Regulatory Branch
167 North Main, B-202
Memphis, TN 38103-1894

St. Louis District
Corps of Engineers
Regulatory Branch
1222 Spruce Street
St. Louis, MO 63103-2833

Re: Rock Island District- U.S. Army Corps of Engineers: Rock Island District, St. Louis District, Louisville District, and Memphis District
Re-Issuance of Regional Permit 16 Bank Stabilization Activities
Log # C-0032-16 [CoE appl. # CEMVR-OD-P-2016-0048]

Gentlemen:

This Agency received a request on January 28, 2016 from U.S. Army Corps of Engineers, Rock Island District, St. Louis District, Louisville District, and Memphis District requesting necessary comments concerning the re-issuance of Regional Permit 16 Bank Stabilization Activities in the State of Illinois. We offer the following comments.

Based on the information included in this submittal, it is our engineering judgment that bank stabilization activities authorized by this nationwide permit may be completed without causing water pollution as defined in the Illinois Environmental Protection Act, provided the project is carefully planned and supervised.

These comments are directed at the effect on water quality of the construction procedures involved with bank stabilization activities and are not an approval of any discharge resulting from the completed activity, nor an approval of the design of the facility. These comments do not supplant any permit responsibilities of the applicant toward the Agency.

This Agency hereby issues certification under Section 401 of the Clean Water Act (PL 95-217), subject to the applicant’s compliance with the following conditions:

1. The applicant shall not cause:

   a. violation of applicable water quality standards of the Illinois Pollution Control Board, Title 35, Subtitle C: Water Pollution Rules and Regulations;

   b. water pollution defined and prohibited by the Illinois Environmental Protection Act;

   c. interference with water use practices near public recreation areas or water supply intakes; or

   d. violation of applicable provisions of the Illinois Environmental Protection Act.
2. The applicant shall provide adequate planning and supervision during the project construction period for implementing construction methods, processes and cleanup procedures necessary to prevent water pollution and control erosion.

3. An individual 401 water quality certification will be required for any activities permitted under this Regional Permit for discharges to waters designated by the State of Illinois as Outstanding Resource Waters under 35 Ill. Adm. Code 302.105(b).

4. Projects requiring authorization under Section 404 of the Clean Water Act must implement Best Management Practices (BMPs) to protect water quality, preserve natural hydrology and minimize the overall impacts to aquatic resources during and after construction. If the project involves a water with an approved Total Maximum Daily Load (TMDL) allocation for any parameter, measures which ensure consistency with the assumption and requirements of the TMDL shall be included. TMDL program information and water listings are available at [http://www.epa.illinois.gov/topics/water-quality/watershed-management/tmdls/index](http://www.epa.illinois.gov/topics/water-quality/watershed-management/tmdls/index). If the project involves an impaired water listed on the Illinois Environmental Protection Agency’s Section 303(d) list for suspended solids, turbidity, or siltation, measures designed for at least a 25-year, 24-hour rainfall event shall be incorporated. Impaired waters are identified at [www.epa.state.il.us/water/tmdl/303d-list.html](http://www.epa.state.il.us/water/tmdl/303d-list.html).

5. Prior to proceeding with any work in accordance with this Regional Permit, potential impacts to threatened or endangered species shall be identified through use of the State’s Ecological Compliance Assessment Tool (EcoCAT) at [http://dnr.illinois.gov/EcoPublic/](http://dnr.illinois.gov/EcoPublic/). If potential impacts to State threatened or endangered species are identified, the Illinois Department of Natural Resources shall be consulted with.

6. Any spoil material excavated, dredged or otherwise produced must not be returned to the waterway but must be deposited in a self-contained area in compliance with all state statutes, regulations and permit requirements with no discharge to waters of the State unless a permit has been issued by this Agency. Any backfilling must be done with clean material and placed in a manner to prevent violation of applicable water quality standards.

7. All areas affected by construction shall be mulched and seeded as soon after construction as possible. The applicant shall undertake necessary measures and procedures to reduce erosion during construction. Interim measures to prevent erosion during construction shall be taken and may include the installation of staked straw bales, sedimentation basins and temporary mulching. All construction within the waterway shall be constructed during zero or low flow conditions. The applicant shall be responsible for obtaining an NPDES Storm Water Permit prior to initiating construction if the construction activity associated with the project will result in the disturbance of 1 (one) or more acres, total land area. An NPDES Storm Water Permit may be obtained by submitting a properly completed Notice of Intent (NOI) form by certified mail to the Agency’s Division of Water Pollution Control, Permit Section.

8. Asphalt, bituminous material and concrete with protruding material such as reinforcing bar or mesh shall not be 1) used for backfill, 2) placed on shorelines/streambanks, or 3) placed in waters of the State.

10. The fill material used for temporary work areas in waters of the State shall be predominantly sand or larger size material, with <20% passing a #230 U. S. sieve.

This certification becomes effective when the Department of the Army, Corps of Engineers, includes the above conditions #1 through #10 as conditions of the requested permit issued pursuant to Section 404 of PL 95-217.

This certification does not grant immunity from any enforcement action found necessary by this Agency to meet its responsibilities in prevention, abatement, and control of water pollution.

Sincerely,

[Signature]

Alan Keller, P.E.
Manager, Permit Section
Division of Water Pollution Control

cc: IEPA, Records Unit
    CoE, Chicago District
    IEPA, DWPC, FOS, Rockford
    IEPA, DWPC, FOS, DesPlaines
    IEPA, DWPC, FOS, Peoria
    IEPA, DWPC, FOS, Champaign
    IEPA, DWPC, FOS, Springfield
    IEPA, DWPC, FOS, Collinsville
    IEPA, DWPC, FOS, Marion
    IDNR, OWR, Springfield
    USEPA, Region 5
SECTION B-B

SECTION A-A

SECTION C-C

PLAN

REFERENCE TABLE

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NOTED:
1. Rock grading shall meet DOT requirement for GMA, HD or similar quality specification, or as determined by engineer.
2. Use layered, blended stones from suitable material on slopes for the permanent tieplugs and crest plane.
3. Riffle slope shall be 2:1 or flatter where flood passage is required.