



TRANSPORTATION CABINET

Frankfort, Kentucky 40622
www.transportation.ky.gov/

Steven L. Beshear
Governor

Michael W. Hancock, P.E.
Secretary

April 20, 2015

CALL NO. 110
CONTRACT ID NO. 151015
ADDENDUM # 2

Subject: Spencer County, STP BRO 5125 (011)
Letting April 24, 2015

(1)Added - Notes - Pages 1-7 of 7

Proposal revisions are available at <http://transportation.ky.gov/Construction-Procurement/>.

If you have any questions, please contact us at 502-564-3500.

Sincerely,

A handwritten signature in cursive script that reads "Robert C. Lewis".

Robert C. Lewis, P.E.
Acting Director
Division of Construction Procurement

RL:ks
Enclosures



An Equal Opportunity Employer M/F/D

Levee System Modification Permit

Spencer County Levee, Flood Control and Drainage District No. 1

(Name of Levee System to be modified)

Mr. Robert 'Bobby' Smith

(Name of Local Sponsor for Levee System)

PERMITTEE INFORMATION:

KENTUCKY TRANSPORTATION CABINET

8310 Westport Road

(Name of Firm/Organization requesting modification, if any)

(Address)

Matt Bullock, Chief District Engineer

Louisville

KY

40242

(Name of Individual requesting modification)

(City, State, Zip)

matt.bullock@ky.gov

502-210-5400

501-210-5498

(Email)

(Phone/Fax)

Permission is hereby given to the above permittee TO:

Replace the existing Salt River Bridge (Truss) with a new bridge and approach work. The new bridge and approaches will be constructed immediately to the east of the existing bridge and roadway. The proposed northern approach will approximate the existing approach in profile with the road going through the levee as it currently does today. The northern approach will be constructed immediately to the east and tie back in with the existing roadway 488.50' from the end of the new bridge. The northern approach crosses the levee at Station 519+50 at elevation 501.34. When the roadway of the existing approach over the levee is removed, this portion of the levee will be reconstructed by extending it to the east and constructed to an elevation of the 503.78.

(Describe in the spaces above a summary of the proposed modification: including kind and type of construction; purpose intended; location by LRL stationing and gps coordinates. Include means for access to modification site, etc. Use separate sheets if necessary, identifying each by reference herein. All plans and specifications associated with the modification must be included as part of the permit package.)

Provided That:

Upon termination or expiration of this permit (whether by voluntary relinquishment by the permittee, by revocation by the permitter or otherwise) the permittee shall remove all structures, improvements, or appurtenances which may have been erected or constructed under this permit, and shall repair or replace any portion of the Levee System or right-of-way which may have been damaged by his operations (including grading and seeding, or sodding, if necessary), to the satisfaction of the permitter.

The structure or operation for which this permit is issued shall be maintained by the permittee in such manner as shall not injure or damage the Levee System, or interfere with its operation and maintenance in accordance with regulations of the Secretary of the Army.

The structure or operation covered by this permit may be damaged, removed or destroyed by the permitter in time of flood emergency if such action is determined by the permitter to be necessary in order to preserve life or property or prevent damage or impairment to the use or safety of the Levee System, and the permitter shall not be liable to the permittee for such damage or destruction.

Unless otherwise specifically provided herein, this permit may be cancelled at any time by the permitter upon 10 days written notice mailed to the address shown above. During such 10-day period, (or such other period as may be provided herein), the permittee will be permitted to remove any property or improvements installed under this permit, and to repair or replace any damage to the Levee System right-of-way or structures resulting from his use or operations. At the end of such period, the permitter shall have the right to possess and dispose of any such property or improvements remaining upon its right-of-way, and may proceed to repair or replace any such damage, and the permittee herein shall be liable to the permitter for the full cost of such repairs or replacements.

The construction, installation and maintenance of the structure or structures covered by this permit shall be subject to inspection by representatives of the permitter and the United States at all reasonable times.

In the event the work covered by this permit consists of or includes major construction, the cost of inspection thereof by the permitter and/or the United States shall be paid by the applicant.

Permittee agrees that it will not use the area or facilities covered by this permit, or permit such area to be used, for any purpose other than is specifically covered by this permit.

(Use the spaces below for special conditions applicable to this permit.)

[Empty box for special conditions]

THIS PERMIT SHALL NOT BE VALID UNTIL APPROVED BY THE DISTRICT LEVEE SAFETY OFFICER (LSO) OR ALTERNATE LSO, CORPS OF ENGINEERS, U.S. ARMY, OR HIS AUTHORIZED REPRESENTATIVE.

(Authorized Representative of Local Sponsor)
[printed or typed]

(Signature)

(Title)

(Date)

Terms of this permit are hereby accepted.

Matt Bullock

(Authorized Representative of Permittee)
[printed or typed]

Matt Bullock

(Signature)

Chief District Engineer

(Title)

12-21-12

(Date)

Approved:

John F. Allison

John F. Allison, P.E.
Chief, Civil Engineering Branch
Alternate Levee Safety Officer

27 Feb 2013

(Date)

CELRL-803
Revised 19 October 2011

(FOR LOUISVILLE DISTRICT USE ONLY): Permit # _____

Downs, Keith (KYTC-D05)

From: Bryan, Nathan LRL [Nathan.H.Bryan@usace.army.mil]
Sent: Thursday, April 16, 2015 9:26 AM
To: Downs, Keith (KYTC-D05)
Subject: RE: Taylorsville Levee - USACE Permit #2013008.TAY - Salt River Bridge Replacement (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Keith,

We will extend the permit for an additional 2-years.
Please retain a copy of this email for your records.

Sincerely,

Nathan H. Bryan, PE
Geotechnical Engineer
Louisville District, ED-T-G
US Army Corps of Engineers

O: (502) 315-6436
F: (502) 315-6454
Nathan.H.Bryan@usace.army.mil

Mail to:
US Army Corps of Engineers
CELRL-ED-T-G, ATTN: Nathan H. Bryan, Rm 921 PO Box 59 LOUISVILLE, KY 40201-0059

-----Original Message-----

From: Downs, Keith (KYTC-D05) [<mailto:Keith.Downs@ky.gov>]
Sent: Thursday, April 16, 2015 8:53 AM
To: Bryan, Nathan LRL; Jeanie Smith
Cc: Matar, Ronald (KYTC); Bullock, Matt (KYTC-D05); West, Jonathan (KYTC); Asher, Jill (KYTC); Thompson, Travis (KYTC-D05); Oatman, Susan (KYTC-D05)
Subject: [EXTERNAL] RE: Taylorsville Levee - USACE Permit #2013008.TAY - Salt River Bridge Replacement (UNCLASSIFIED)

5-1033.00 Spencer Co Salt River Bridge Replacement Letting April 24, 2015

Mr. Bryan,

The design for this project was completed and has been placed in the April 24, 2015 letting to construction. In reviewing the attached approved permit documentation it was realized that the permit expired on February 26th, 2015. I am contacting you to see what is required to renew this permit.

Thank you

Keith

Keith Downs

Project Manager
Dept of Hwys - District 5 Louisville
Project Development Branch - Design
8310 Westport Rd.
Louisville, KY 40242
(502)210-5446

keith.downs@ky.gov

KYTC Disclaimer:

IMPORTANT: This email transmission, including any attachments, is sent on behalf of Kentucky Transportation Cabinet and may be privileged, proprietary or confidential. It is intended only for the intended recipient. If you are not the intended recipient or a person responsible for delivering this transmission to the intended recipient, you shall not disclose, copy, or distribute this transmission or take any action on it. If you have received this transmission in error, please notify me immediately by telephone (502)210-5446 or by e-mail. Please dispose of and delete this transmission. Thank you.

-----Original Message-----

From: Bryan, Nathan LRL [<mailto:Nathan.H.Bryan@usace.army.mil>]

Sent: Wednesday, February 27, 2013 2:19 PM

To: Jeanie Smith

Cc: Matar, Ronald (KYTC); Downs, Keith (KYTC-D05); Bullock, Matt (KYTC-D05); Quinio, Tala (KYTC-D05)

Subject: Taylorsville Levee - USACE Permit #2013008.TAY - Salt River Bridge Replacement (UNCLASSIFIED)

Classification: UNCLASSIFIED

Caveats: NONE

Mr. Smith,

Find attached our approved permit for the new Salt River Bridge Project.

Please note that a revision to the O&M Manual will be required once the project is completed; and which reflects the new sandbag closure location. This is a relatively minor change that is requested.

****NOTE: Please make sure that the KTC closes the opening in the levee at the existing sandbag closure. The fill should be benched into the levee to the design configuration (see attached) and the fill should consist ONLY of low permeability (CL type) soil.

If you have any questions, feel free to give me a call at the number below.

Sincerely,

Nathan H. Bryan, PE
Geotechnical Engineer
Louisville District, ED-T-G
US Army Corps of Engineers

O: (502) 315-6436

F: (502) 315-6454

Nathan.H.Bryan@usace.army.mil



REPLY TO
ATTENTION OF:

DEPARTMENT OF THE ARMY
U.S. ARMY ENGINEER DISTRICT, LOUISVILLE
CORPS OF ENGINEERS
P.O. BOX 59
LOUISVILLE, KENTUCKY 40201-0059

February 26, 2013

Engineering Division

Mr. Robert Smith
Spencer County
Levee, Flood Control and Drainage District No. 1
6287 Taylorsville Road
Taylorsville, KY 40023

Dear Mr. Smith,

I am returning two copies of an approved permit (Reference Number 2013008.TAY) for the proposed KY55 at Salt River Replacement Bridge project. The new bridge will be located approximately 100 feet east (upstream) of the existing bridge and will require excavation of the levee to about elevation 501.3 feet at approximate Levee Station 4+96, to accommodate the new roadway alignment.

The new roadway alignment at the levee will be designated as a new sandbag closure (less than 3-feet in height) and the existing sandbag closure located at Station 6+38 will be permanently backfilled up to design elevation.

We have reviewed the project drawings (Item No. 5-1033.00) and have no objections to the proposed work provided the following conditions are adhered to:

a. The existing roadway pavement and/or deleterious materials (to include aggregate base) located at Levee Station 6+38 (existing sandbag closure) shall be completely removed within 15 feet of the levee toe limits, and the levee restored to its design configuration as shown on As-Built Drawing No. 630-12.2/7.1, Typical Section Detail at Station 5+75. All fill material shall consist of low permeability soils – impermeable soils (e.g. SC, CL or CL-ML with an estimated hydraulic conductivity less than 1×10^{-6} cm/sec) and be placed in accordance with the Standard Operating Procedure (SOP) *Benching and Compaction for Levee and Floodwall Modifications* attached herein and available from the Louisville District's levee safety website: <http://www.lrl.usace.army.mil/lsp>.

b. An update to the Taylorsville, KY Levee System Operations and Maintenance (O&M) Manual shall be provided to our office (Attn: Nathan Bryan) upon completion of construction activities and which incorporates the changes relative to the existing and new sandbag closures.

- 2 -

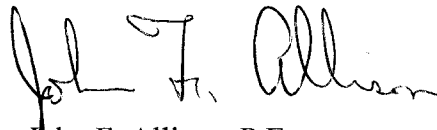
c. A set of "As-Built" drawings for the above project and digital copies of the construction photos taken during and after the completion of the project are to be provided to this office, ATTN: CELRL-ED-T-G (Nathan Bryan), upon completion of this project. As-built drawings shall indicate graphically the levee As-Built station numbers provided by USACE for the Taylorsville, KY Levee System.

It should be noted that this approval is for only the work discussed herein. It is the responsibility of the Spencer County Levee, Flood Control and Drainage District No. 1 to ensure the work is completed in accordance with the plans and specifications. Failure to meet these requirements may affect the overall rating of the project during our next routine inspection.

This permit will be valid for a period of two years from the date of this letter. Please notify this office prior to construction so that a USACE representative can have the option to be on-site. Any modification deemed necessary during the construction phase of this project will require additional technical review and approval by this office prior to continuing construction.

Any failure to meet these requirements may affect the overall rating of the project during our next annual inspection.

Sincerely,

A handwritten signature in black ink, appearing to read "John F. Allison". The signature is fluid and cursive, with the first name "John" and last name "Allison" clearly legible.

John F. Allison, P.E.
Chief, Civil Engineering Branch

Enclosures



Standard Operating Procedure for Benching and Compaction for Levee and Floodwall Modifications

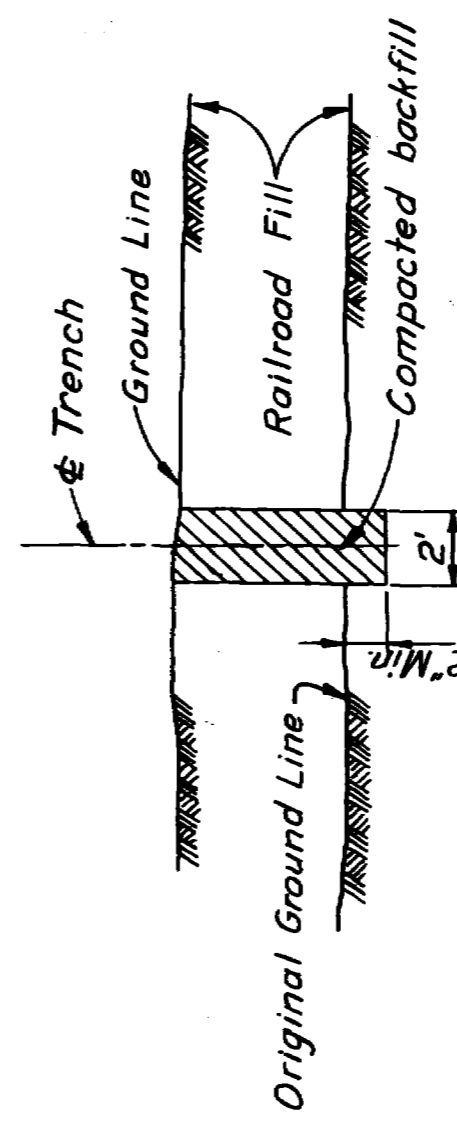
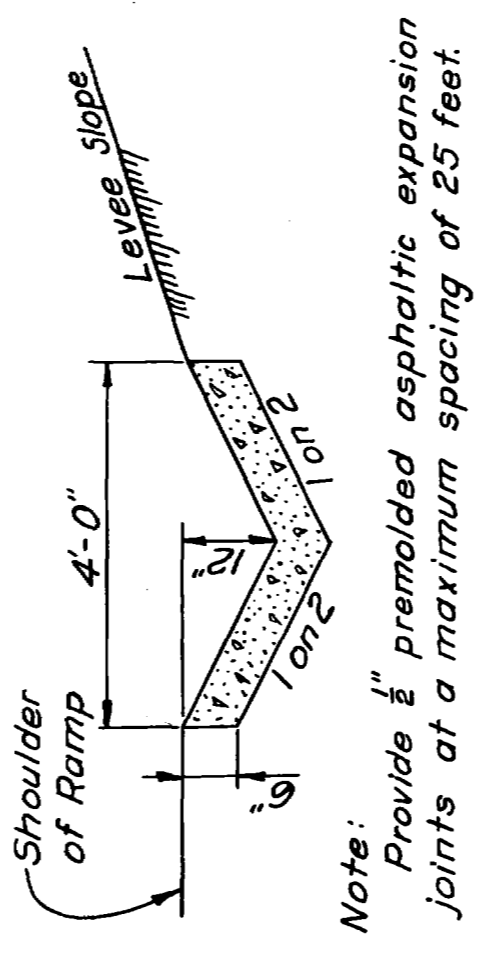
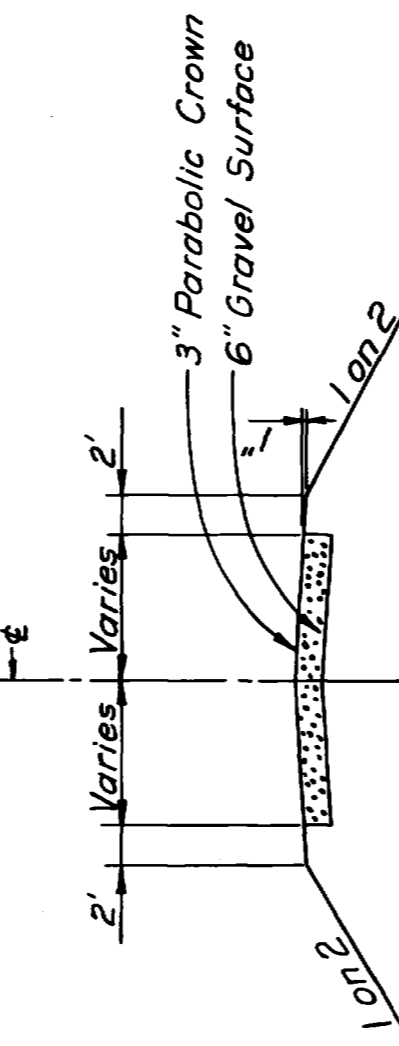
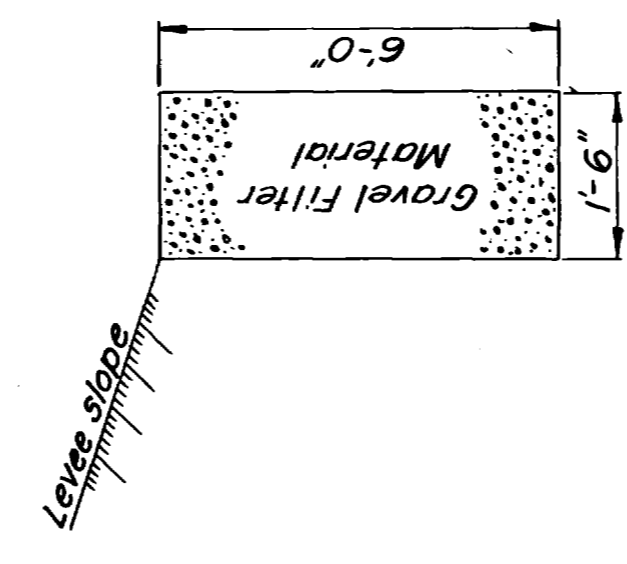
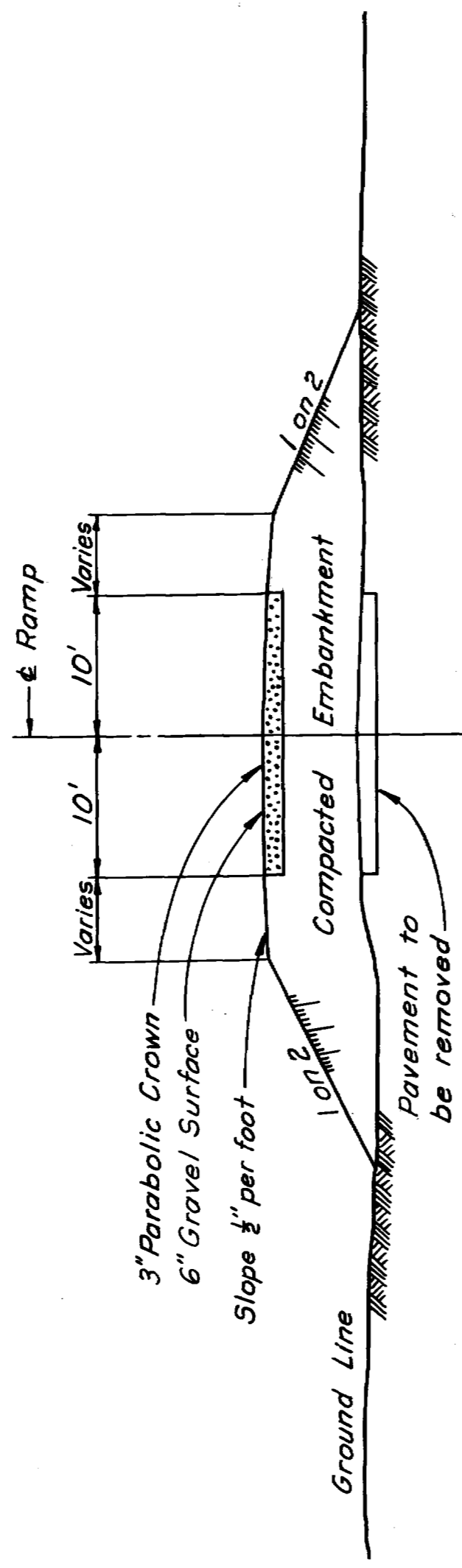
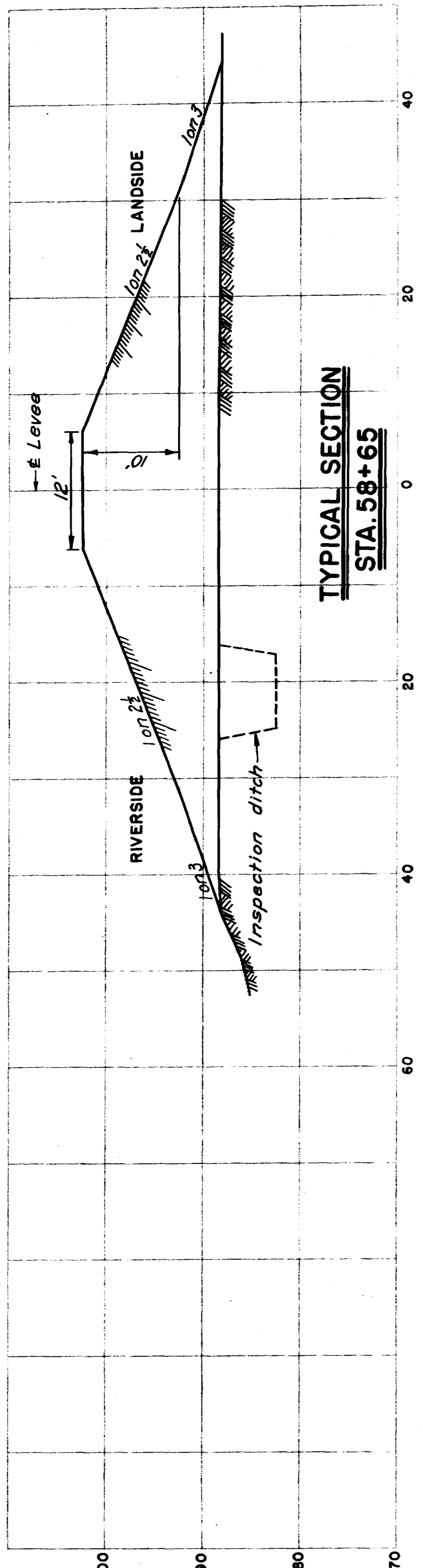
30 November 2010

1. Placing backfill within the levee embankment will require the following:

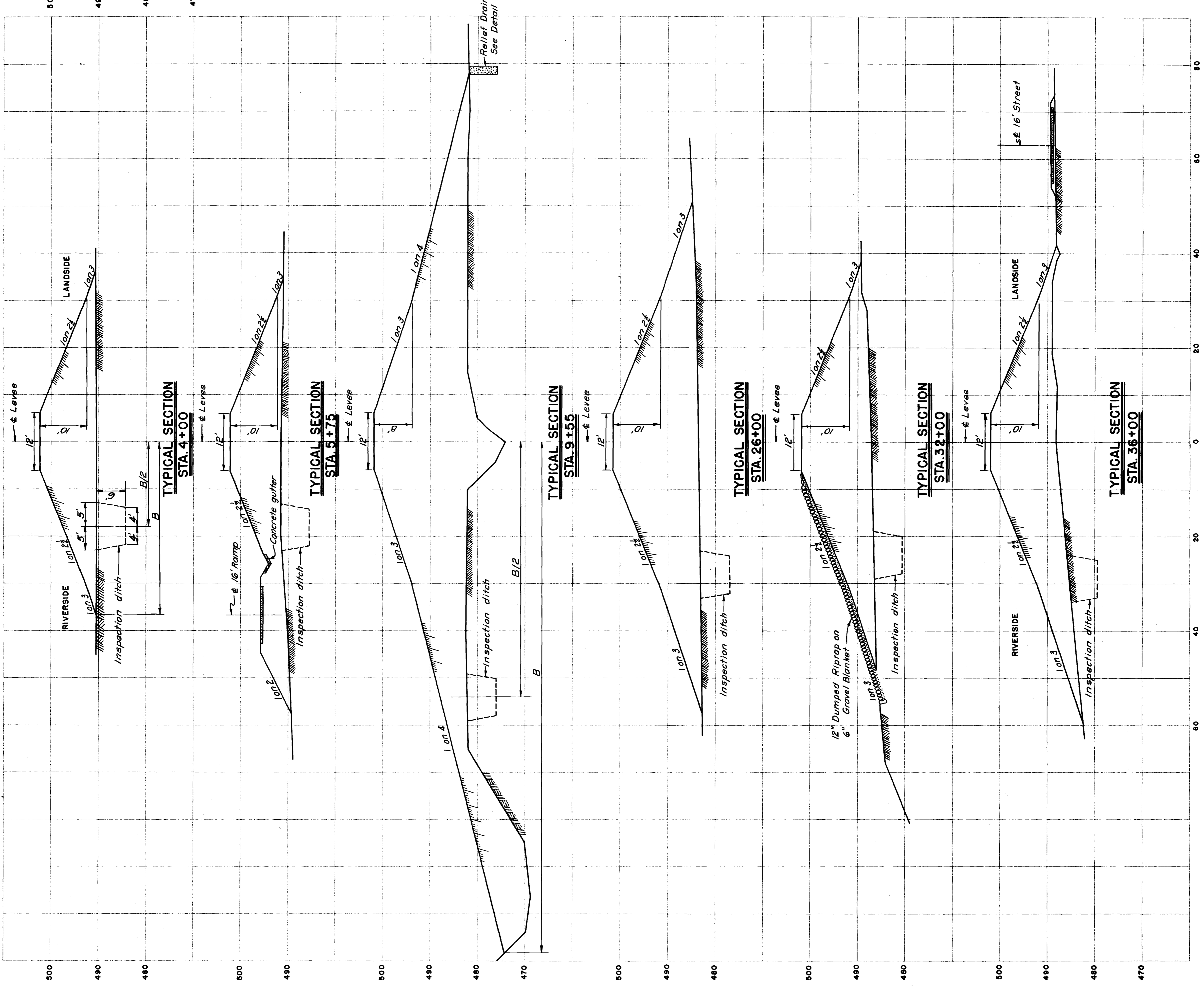
- a) The surface of the levee shall be stripped of organics and topsoil to a depth of approximately 6 inches prior to benching the levee sideslope.
- b) The existing levee embankment shall be over-excavated in all directions by benching 1 ft vertical and 3 ft horizontal into stiff undisturbed soil. A level bottom surface day-lighting toward the levee toe shall be provided from which the upward benching on the sides shall initiate. Benching may have to be performed by hand methods or using small-scale excavation equipment.
- c) The levee soil on which the backfill is to be placed should not be excavated until immediately before backfilling, and shall not be allowed to become overly wet or dry while exposed. The surface area of the benches shall be scarified as necessary to ensure a good bond between the existing soil and the backfill material.
- d) Backfill material must be low permeability soils - impermeable soils (e.g. SC, CL or CL-ML with an estimated hydraulic conductivity less than 1×10^{-5} cm/sec) in accordance with ASTM 2488 - USCS classification system.
- e) Backfill material shall be placed in loose lifts with thicknesses not to exceed 8-inches and compacted in the holes to a minimum 95 percent Standard Proctor density determined at optimum moisture content according to ASTM D-698. Moisture control limits are to be within -1% to +3% of optimum.
- f) The finished riverside or landside slope of the levee shall be graded to match the existing levee slopes upstream and downstream. A site-specific grading plan must be approved for projects where the final grade differs from the original grade.
- g) The disturbed areas shall be seeded and covered with a bio-degradable geotextile when final grading is complete.

2. Placing backfill materials outside the projected levee slopes but within a minimum of 15 feet of the toe of the Levee or face of the Floodwall requires the following:

- a) Backfill material must be low permeability soils - impermeable soils (e.g. SC, CL or CL-ML with an estimated hydraulic conductivity less than 1×10^{-5} cm/sec) in accordance with ASTM 2488 - USCS classification system.
- b) Backfill shall be placed in loose lifts with thicknesses not to exceed 8-inches and compacted in the holes to a minimum 95 percent Standard Proctor density determined at optimum moisture content according to ASTM D-698, unless otherwise directed. Moisture control limits are to be within -1% to +3% of optimum.
- c) The disturbed areas shall be seeded and covered with a bio-degradable geotextile when final grading is complete.



Ⓢ Cut-off trench excavated to elevation 4' below base of rail under track and 2' below original ground on side slope and from 8' East of R.R. to Sta. 0+35.



NO.	DATE	AUTHORITY	REVISION
1	7/16/57	None added	AS BUILT REVISIONS

OHIO RIVER BASIN
FLOOD PROTECTION TAYLORSVILLE, KY.
SHEET 7 OF 19 SHEETS
LOUISVILLE DISTRICT
CORPS OF ENGINEERS
DEPT. OF THE ARMY
LOUISVILLE, KY.
JAN. 1948

APPROVAL RECOMMENDED:
TECHNICAL ASSISTANT
SUBMITTED: CHIEF, ENGINEERING DIVISION
APPROVED: DISTRICT ENGINEER
BY: W.A.S.
OK BY: L.E.S.

AS BUILT
630-12.2/7.1
EXHIBIT B

THIS DWG. SUPERSEDES DWG. NO. 630-12.2/7 DATED NOV. 1947

Ohc