

**SUMMERFORD ENGINEERING, INC.**

175 Frost Road  
P. O. Box 1005  
Arkadelphia, Arkansas 71923

Charles R. Summerford, P.E.  
David H. Holcomb, P.E.  
Consulting Engineers

Phone: (870) 246-6011  
FAX: (870) 246-9533  
E-Mail: [summengineer@gmail.com](mailto:summengineer@gmail.com)

April 8, 2015

Mr. Tommy Lawson, Manager  
Stuttgart Municipal Water Works  
P. O. Box 130  
Stuttgart, AR 72160

RE: NPDES AR0034380, AFIN 01-00041  
Flow Regulating Wastewater Storage Pond  
Sewerage Treatment Facilities  
Stuttgart, Arkansas

Dear Mr. Lawson:

In response to your request of repairing the breach wash out in the wastewater storage pond, we offer the following:

1. Once the wastewater pond water level is lowered to a point 5 feet below the bottom of the washout and allowed to dry for a week minimum, the loose and/or wet portion in the bottom of the breach area should be mopped out and the concrete, asphalt, and old pipe pieces shall be removed. The breach area shall then be scarified with a disk or tiller to a depth of 4 to 6 inches.
2. Haul in a select fill material of sandy/gravelly clay, CL, clayey sand/gravel GC SC having a Liquid Limit 35 to 40 and a plasticity index of above 15. A core trench shall be excavated along centerline of levee completely across the washed out area; then the core trench filled with the excavated material or select fill and compacted to a density of 95% of Standard Proctor Density. Continue placing the select fill in 6 to 8-inch layers over the washed out area and compact with a small sheepsfoot roller with fill material near optimum moisture content until sheepsfoot rolls out and reaches 95% Standard Proctor Density. Continue placing the select fill in layers and compacting until the fill reaches a point 21 inches below the surface of the inside levee slope and 3 inches below the top of the existing levee and exterior slope.
3. Haul in a clay fill material and lay in 6-inch layers and compact 18" clay liner on front slope of levee over washed out area up to within 3 inches of inside of levee to replace the clay liner using care to match existing clay liner with new clay material.

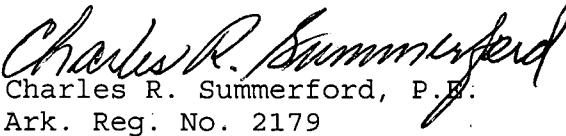
April 6, 2015

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4. Haul in topsoil to cover the levee top and slopes of washed out area with 3-inches of topsoil to support and develop a turf cover, then lightly compact.
5. Then apply 15#/acre of bermuda grass seed, 700#/acre of 13-13-13 commercial fertilizer and cover area with straw.
6. The repaired area should be sprinkled until wet and kept damp until the bermuda seed germinates and is a uniform green over the repaired area.
7. Attached is a general sketch showing the proposed repair work.

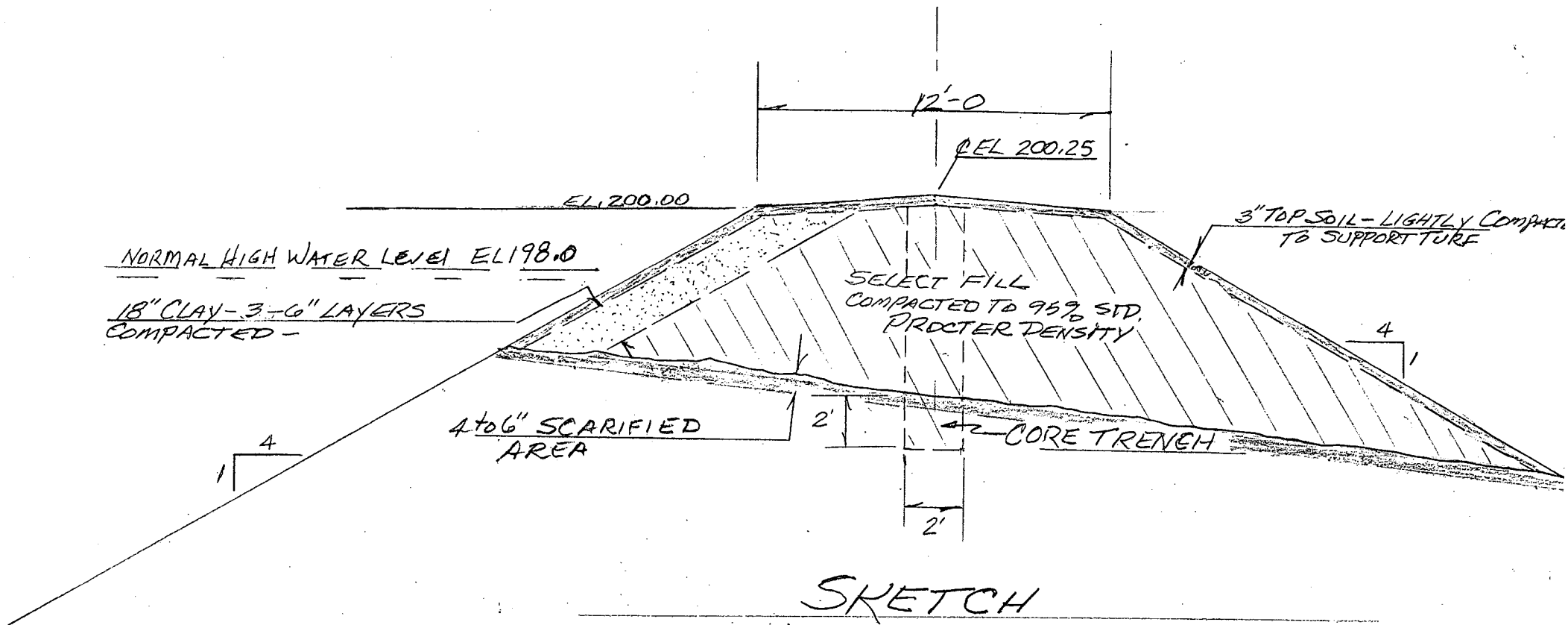
Very-truly yours,

SUMMERFORD ENGINEERING, INC.

  
Charles R. Summerford, P.E.  
Ark. Reg. No. 2179

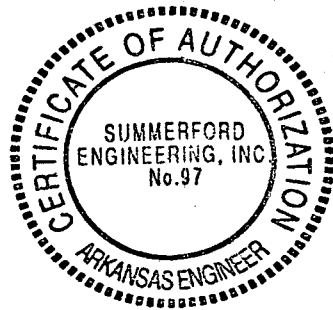
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Enclosure: Sketch



SKETCH

STUTTGART SEWERAGE TREATMENT  
 FLOW CONTROL STORAGE POND  
 LEVEE BREACH REPAIR  
 CRS APRIL 8, 2015



SUMMERFORD ENGINEERING, INC.  
 P.O. BOX 1005  
 175 FROST ROAD  
 ARKADDELPHIA, AR 71923

# Stuttgart Municipal Water Works

612 S College - PO Box 130 - Stuttgart Arkansas 72160

Phone 870-673-3246 Fax 870-673-8783

**Tommy Lawson**  
Manager

April 14, 2015

Arkansas Department of Environmental Quality

Alan Anderson, Enforcement Officer

5301 Northshore Drive

North Little Rock, AR 72118-5317

RE: NPDES AR0034380, AFIN 01-00041  
Flow Regulating Wastewater Storage Pond

Dear Mr. Anderson:

Enclosed please find a letter and sketch from our engineer for repairing the breach wash out in the wastewater storage pond. We hope you will find these repairs sufficient to meet your requirements in our efforts to achieve the best solution for this problem. If you have any questions please call me.

Sincerely,



Tommy Lawson  
Manager

# STUTT GART MUNICIPAL WATER WORKS

612 SOUTH COLLEGE - P.O. BOX 130  
STUTT GART, ARKANSAS 72160-0130

RETURN SERVICE REQUESTED

ATTN: ALAN Anderson

Arkansas Dept. of Environmental Quality  
Water Division  
5301 Northshore Drive  
North Little Rock AR 72118-5317

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04/14/2015

**US POSTAGE**

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