To all interested parties: This letter shall serve as a formal notice of the receipt of an application for **Section 401 Water Quality Certification** by the Indiana Department of Environmental Management (IDEM). The purpose of the notice is to inform the public of active applications submitted for water quality certification under Section 401 of the Clean Water Act (33 U.S.C. § 1341) and to solicit comments and information on any impacts to water quality related to the proposed project. IDEM will evaluate whether the project complies with Indiana’s water quality standards as set forth at 327 IAC 2.

1. Applicant: John Ayers, P.E.  
Hendricks County Hwy Dept  
355 S Washington St.  
Danville, IN 46112

2. Agent: Brian Shaw  
Beam, Longest and Neff, LLC  
8320 Craig St.  
Indianapolis, IN 46250

3. Project location: CR 550 North near North Salem, Hendricks County  
Latitude: 39.841392, Longitude: -86.665019

4. Affected waterbody: Unnamed Tributary (UNT) to West Fork of Big Walnut Creek and associated wetland

5. Project Description: The applicant proposes to discharge fill material into an UNT to West Fork of Big Walnut Creek and an adjacent forested wetland for culvert replacement and channel realignment. The existing 25 linear foot (lf) concrete arch culvert will be replaced by a 34 lf four-sided box culvert. In addition, 50 lf of the upstream portion of the channel will be realigned into 40 lf of new channel at a better alignment to the structure. Riprap will be placed along approximately 10 lf of the new channel, and the remaining 30 lf will be stabilized and seeded. In addition, approximately 0.0061 acre of forested wetland will be impacted by the channel realignment. For additional information please visit the following webpage address: [http://www.in.gov/idem/5474.htm](http://www.in.gov/idem/5474.htm)

Comment period: Any person or entity who wishes to submit comments or information relevant to the aforementioned project may do so by the closing date noted above. Only comments or information related to water quality or potential impacts of the project on water quality can be considered by IDEM in the water quality certification review process.

Public Hearing: Any person may submit a written request that a public hearing be held to consider issues related to water quality in connection with the project detailed in this notice. The request for a hearing should be submitted within the comment period to be considered timely. The request should also state the reason for the public hearing as specifically as possible to assist IDEM in determining whether a public hearing is warranted.

Questions? Additional information may be obtained from Mrs. Amari Farren, Project Manager, at 317-234-6351 or by email to afarren@idem.in.gov. Please address all correspondence to the project manager and reference the IDEM project identification number listed on this notice. Indicate if you wish to receive a copy of IDEM’s final decision. Written comments and inquiries may be forwarded to –

Indiana Department of Environmental Management  
100 North Senate Avenue  
MC65-42 WQS IGCN 1255  
Indianapolis, Indiana 46204-2251  
FAX: 317/232-8406
For wetland delineation, see sheet 6.
Varies 5'-0" to 11'-0"

In-situ soil for channel flowline

** CHANNEL TYPICAL SECTION **

Sta. 1+05 "BB" to Sta. 1+35 "BB"  No Scale

** PUMP AROUND DETAIL **

PLAN VIEW

** SECTION A-A **

** HENDRICKS COUNTY, INDIANA **

** PLAN AND PROFILE - LINE "BB" **
GENERAL NOTES

Reinforcing steel covering in footings and beam shall be 3" in the top and sides and 4" in the bottom. All other parts to be 3" unless otherwise noted.

Alternate Cast-In-Place Wingwalls may be substituted for the Precast Wingwall shown in Section C-C.

Construction shall verify the existing flowline elevation to set appropriate curb and channel to keep within these limits.

DESIGN DATA

LINE LOAD: Designed for C-65 in accordance with 2017 AASHTO LRFD Bridge Design Specifications.

DESIGN STRENGTHS: To be in accordance with 2017 AASHTO LRFD Bridge Design Specifications and all Subsequent Interims.

CONCRETE:

Class "B": f'c = 3,500 psi
Class "A": f'c = 3,000 psi

REINFORCING STEEL:

Grade 60: fy = 60,000 psi

CONCRETE:

Design Specifications and all Subsequent Interims.

To be in accordance with 2017 AASHTO LRFD Bridge Design Specifications.

Designed for HL-93 in accordance with 2017 AASHTO LRFD Bridge Design Specifications.

LIVE LOAD:

To be in accordance with 2017 AASHTO LRFD Bridge Design Specifications and all Subsequent Interims.

SOIL PARAMETERS

Nominal Bearing Factor (Qn)

Nominal Bearing Resistance (Rn)

Factored Bearing Resistance (qn)

Friction Angle between Footing & Foundation Rock (d)

Instantaneous Friction Angle (0i)

Instantaneous Cohesion of Foundation Rock (Ci)

Instantaneous Adhesion Between Footings

GENERAL PLAN

PRECAST REINFORCED CONCRETE BOX
1 SPAN: 11'-0"
24'-0" CLEAR ROADWAY  SKEW: 0°
CR 550 N OVER BRANCH OF W. FORK BIG WALNUT CREEK
HENDRICKS COUNTY

Section A-A
Scale: 1/4" = 1'-0"

Section C-C
Scale: 1/4" = 1'-0"

Section B-B
Scale: 1/4" = 1'-0"

Note:
For locations of Sections A-A, B-B, C-C, See Shl. 7.

Agg. No. 8 (Typ.)
Limits of Comp.

Geotextile (Typ.)

1'-0" Rise

3'-0" Slop

5'-0" Width

Compacted Aggregate, No. 33, Base

7'-0" Rise

5'-0" Width

6'-0" Length

Invert El. 843.57

Geotextile (Typ.)

Agg. No. 53, Compacted

Grade 60: fy = 60,000 psi

Class "A": f'c = 3,500 psi

Class "B": f'c = 3,000 psi

CONCRETE:

DESIGN STRENGTHS:

PRECAST REINFORCED CONCRETE BOX
1 SPAN: 11'-0"
24'-0" CLEAR ROADWAY  SKEW: 0°
CR 550 N OVER BRANCH OF W. FORK BIG WALNUT CREEK
HENDRICKS COUNTY

Section A-A
Scale: 1/4" = 1'-0"

Section C-C
Scale: 1/4" = 1'-0"

Section B-B
Scale: 1/4" = 1'-0"

Note:
For locations of Sections A-A, B-B, C-C, See Shl. 7.

Agg. No. 8 (Typ.)
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HENDRICKS COUNTY

Section A-A
Scale: 1/4" = 1'-0"

Section C-C
Scale: 1/4" = 1'-0"

Section B-B
Scale: 1/4" = 1'-0"

Note:
For locations of Sections A-A, B-B, C-C, See Shl. 7.

Agg. No. 8 (Typ.)
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1'-0" Rise

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Grade 60: fy = 60,000 psi

Class "A": f'c = 3,500 psi

Class "B": f'c = 3,000 psi

CONCRETE:

DESIGN STRENGTHS: