

# OHIO DEPARTMENT OF TRANSPORTATION

POR-303-0.67 (PID:93854)

TINKERS CREEK  
PROJECT UPDATE: 2014-12-22



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[WWW.TRANSPORTATION.OHIO.GOV](http://WWW.TRANSPORTATION.OHIO.GOV)

# HISTORY

- ④ SOIL PROFILES (1949)
  - ④ SHOWS PEAT DEPOSIT 100 FT DEEP (APPROX. 200' EAST OF STRUCTURE)
- ④ STRUCTURE REPLACEMENT (1958)
  - ④ EXISTING 29.5' LOW TRUSS SPAN
  - ④ PROPOSED 3 – 7'-3" x 5'-3" CMP ARCHES
  - ④ SOIL PROFILES SHOWS PEAT/ELASTIC CLAY 100 FT DEEP (APPROX. 200 FT EAST OF STRUCTURE)

# STRUCTURE CONDITION



ODOT OWNED STRUCTURE  
POR-303-0070 (SFN:6704352)

OVERALL RATING: 5 (LAST INSPECTION: 04/14)

SCALE 1 TO 9 (9 IS BEST)



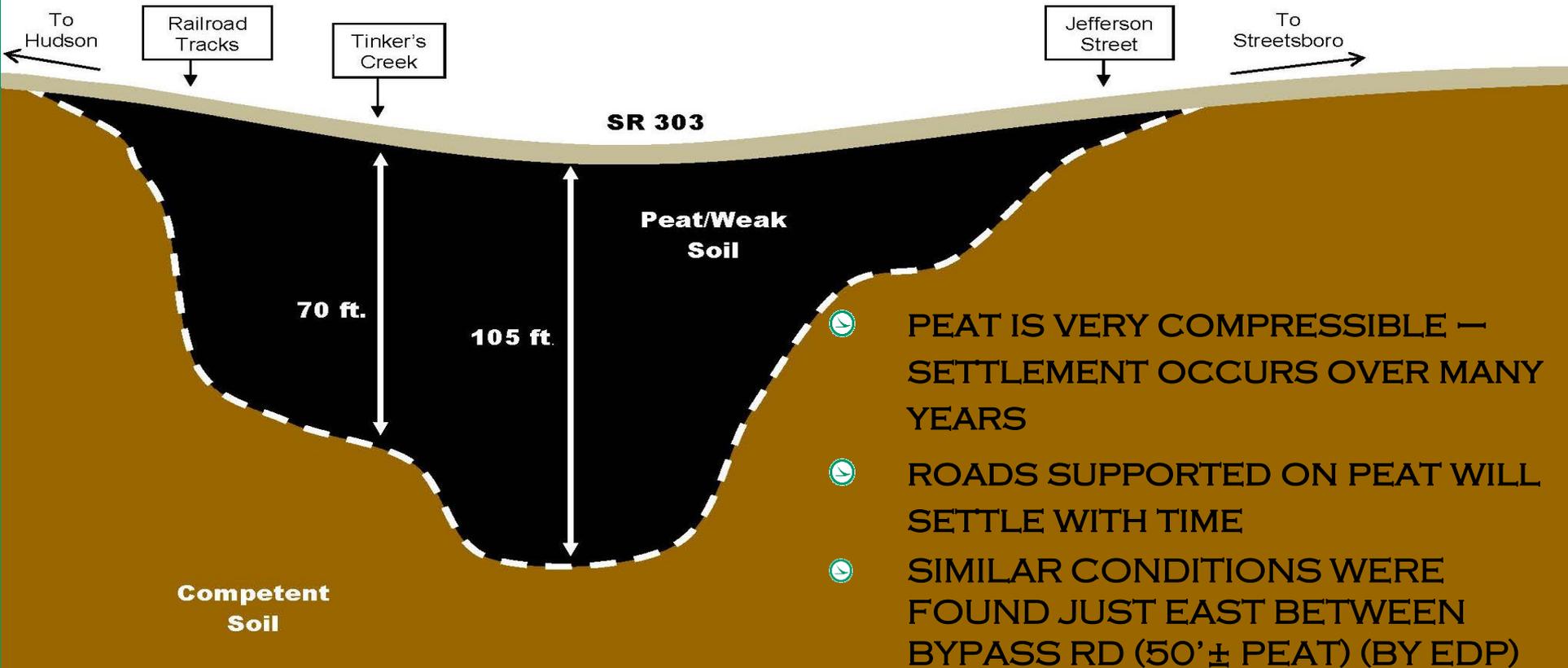
# HYDRAULICS

## (PERFORMED BY URS)

- ① HYDRAULIC ANALYSIS OF EXISTING
  - ① SR-303 FLOODS WITH 2 YR STORM
  - ① RESULT → MULTIPLE ROAD CLOSURES EACH YEAR
  - ① POORLY DRAINED AREA WITH VERY LITTLE FALL IN CHANNEL BETWEEN SR-303 & THE OHIO TURNPIKE
  - ① CHANNEL IS SILTED UP → DREDGING IS NOT PERMITTED
- ① HYDRAULIC ANALYSIS OF PROPOSED
  - ① 12' SPAN X 8' RISE 4-SIDED CONCRETE BOX (LARGER BOX STRUCTURES ALSO INVESTIGATED)
  - ① RESULT → LARGER STRUCTURE DOES NOT SOLVE FLOODING PROBLEM
- ① SOLUTION IS TO RAISE ROADWAY PROFILE ABOVE FLOOD ELEVATION

# SOIL CONDITIONS

## SCHEMATIC SOIL SECTION



# PROJECT SCOPE

- ④ ADDRESS BOTH LOCATIONS PRONE TO FLOODING
  - ④ BETWEEN RR TRACKS AND
  - ④ BETWEEN SR-303 BYPASS ROAD AND JEFFERSON STREET
- ④ REPLACE THE STRUCTURE (3 CMP PIPES)

# PROJECT APPROACH

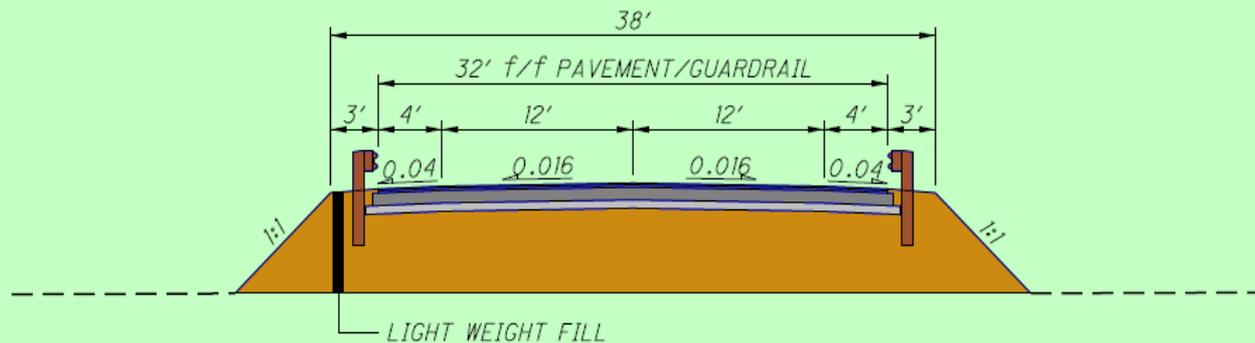
- ① BUILD SURCHARGE ON ROADWAY AND ALLOW ROADWAY TO SETTLE
- ① REMOVE SURCHARGE
- ① CONSTRUCT FINAL EMBANKMENT USING A LIGHTWEIGHT MATERIAL
- ① CONSTRUCT NEW ROADWAY PAVEMENT, GUARDRAIL, ETC.
- ① REPLACE CULVERTS
- ① PROJECT WILL REQUIRE CLOSURE OF SR-303 FOR MAXIMUM OF 12 MONTHS, EXACT CLOSURE PERIOD WILL BE DETERMINED AS THE DESIGN PROGRESSES

# PROJECT APPROACH

## SURCHARGE



## FINAL



# PROJECT IMPACTS

## ENVIRONMENTAL

-  Approx. 4 acres of wetlands
-  Endangered Species

## UTILITIES

-  Gas Line
-  Sanitary
-  Water
-  Telephone
-  Electric
-  Cable

## RIGHT-OF-WAY

-  Strip Take Throughout Project Limits

## MOTORING PUBLIC

-  Construction

# TIME FRAME

## FUNDING TO CONSTRUCTION

- BEGIN ENVIRONMENTAL PERMIT PROCESS  
05/2014 (24-30 MONTHS±)
- BEGIN RIGHT-OF-WAY & UTILITIES 05/2015  
(12 MONTHS±)
- FILE PROJECT FOR SALE 10/2016
- PROJECT SALE 01/2017
- BEGIN CONSTRUCTION 04/2017

# ODOT CONTRIBUTION TO PROJECT

- ④ PRELIMINARY ENGINEERING STUDY
- ④ DESIGN (STRUCTURE AND ROADWAY)
  - ④ ENVIRONMENTAL COORDINATION & PERMITS
  - ④ UTILITY COORDINATION & INVESTIGATION
  - ④ RIGHT-OF-WAY COORDINATION
- ④ CONSTRUCTION ADMINISTRATION
- ④ CONSTRUCTION COST OF STRUCTURE

# CITY CONTRIBUTION TO PROJECT

- ④ PART OF THE CONSTRUCTION COSTS OF ROADWAY
- ④ ENVIRONMENTAL → WETLAND MITIGATION
- ④ RIGHT-OF-WAY PURCHASES
- ④ UTILITY RELOCATIONS

# FUNDING

- ① PROJECT ESTIMATE: \$4.7 ± MILLION
- ① PRELIMINARY ENGINEERING:  
\$50,000±
- ① ENGINEERING: \$425,000±
- ① CONSTRUCTION ENGINEERING:  
\$225,000±
- ① CONSTRUCTION: \$4.0± MILLION

# FUNDING

## ① AMATS CONTRIBUTION

① \$2.1 MILLION

## ① ODOT CONTRIBUTION

① DISTRICT 4 / AKRON: \$1.0± MILLION

① GEOLOGICAL SITE MANAGEMENT FUNDS:  
\$900,000

## ① CITY CONTRIBUTION

① \$700,000±

# QUESTIONS

