

STAHL ROAD DITCH PROJECT #132

Sandusky County

PRELIMINARY REPORT

The proposed project begins on Stahl Road (aka as Township Road 217) at approximately 1320 feet east of the northwest corner of Section 15; Thence along Stahl Road approximately 1320 feet to the north-south half section line; Thence north approximately 950 feet along the north-south half section line; Thence northeast approximately 950 feet to the beginning of Crowell-Stacey Improvement No. 073; Thence along the Crowell-Stacey Improvement No. 073 approximately 950 feet terminating at Morrison Road (aka County Road 160) or continuing downstream to the Sandusky River if necessary to provide a sufficient outlet.

The portion petitioned is approximately 4,170 feet long and drains approximately 450 acres of farm ground and residential lots. The petition as filed requests an improvement for the disposal or removal of surplus water and/or to provide an outlet for accelerated runoff from artificial drainage from Stahl Road and the adjoining watershed.

It is the opinion of the engineer that there is an issue of excess water to be dealt with. However, in an effort to cut down on construction costs, and per Ohio Revised Code Section 6131.09, the County Engineers Office would like to propose an alternative route to address this issue.

The new proposed course would start at the existing crossover under Stahl Road, approximately 1,850 feet east of the intersection with Morrison Road; Thence in a northeastern direction approximately 1,175 feet towards Morrison Road; Thence in a northeastern direction approximately 350 feet to the previously mentioned beginning of the Crowell-Stacey Improvement No. 073. Thence along the Crowell-Stacey Improvement No. 073 approximately 1,000 feet, terminating at Morrison Road.

The new proposal is approximately 2,525 feet and drains the same watershed area of approximately 450 acres of farm and residential ground, while still addressing the original prayer of the petition to dispose or remove surplus water and/or provide an outlet for accelerated runoff from artificial drainage from Stahl Road and the adjoining watershed.

The extent of this proposal is two parts. First, a 30" pipe is proposed to begin at the crossover under Stahl road. The purpose of this tile is to catch the excess water that comes

from the south that doesn't have a chance to get to the existing catch basin to be disposed of properly, ultimately causing flooding and water to go over Stahl Road. The pipe will transfer water to the northeast where it will be transferred into the second part of the project. Starting at a point in Mr. Larry Bowers parcel and then following the course of the existing Crowell-Stacey Improvement No. 073, we are proposing the removal of the existing insufficiently sized pipes and replacing them with a single 36" pipe along with a series of catch basins with surface inlets to allow the capture of excess runoff. This pipe will be approximately 1,000 feet long and outlet at the existing 48" pipe under Morrison Road where the project terminates.

The estimated cost for the project is \$279,090 and the estimated incidental cost is \$20,910 for a grand total of \$300,000. Clearing and grubbing, removal of existing pipe and miscellaneous removals, excavation, new pipe, catch basins, and seeding and mulching are included in the construction costs. Incidental costs include items such as contract performance bonds, maintenance of traffic, construction layout stakes and surveying, and a contingency fund.

It should be pointed out that all costs are only an estimate. Final assessments would be based on actual costs.

It is the opinion of the Engineer, that the proposed alternative project is feasible, that it is conducive to the public, that there is a sufficient outlet, and that the benefits will exceed the cost.

Respectfully submitted,

Date: 7/30/2013

James R. Moyer

Sandusky County Engineer

Date: 7/30/2013

Matthew S. Reinhart

Drainage Engineer

**Stahl Road Ditch Petition
Construction Estimate
SANDUSKY COUNTY, OHIO
7/29/2013**

<u>Item #</u>	<u>ITEM DESCRIPTION</u>	<u>QTY.</u>	<u>UNIT</u>	<u>UNIT PRICE</u>	<u>TOTAL</u>
103.05	Premium For Contract Performance Bond	1	Lsum	\$2,000.00	\$2,000.00
201	Clearing and Grubbing	1	Lsum	\$2,500.00	\$2,500.00
202	Misc. Removals	1	Lsum	\$1,000.00	\$1,000.00
202	12" & under Pipe Removed	1,000	LF	\$6.00	\$6,000.00
202	15" Pipe Removed	1,000	LF	\$7.00	\$7,000.00
203	Excavation	150	CY	\$15.00	\$2,250.00
611	4"-8" Conduit, Type E	20	LF	\$12.00	\$240.00
611	30" RCP Conduit, (Type C, 706.02)	1,500	LF	\$73.00	\$109,500.00
611	36" RCP Conduit, Cl, 3 (Type C, 706.02)	1,100	LF	\$86.00	\$94,600.00
611	Std. 2-4 Catch Basin	9	Each	\$6,000.00	\$54,000.00
614	Maintaining Traffic	1	Lsum	\$2,000.00	\$2,000.00
623	Construction Layout Stakes and Surveying	1	Lsum	\$2,000.00	\$2,000.00
659	Seeding and Mulching, with fertilizer	1	Lsum	\$2,000.00	\$2,000.00

\$285,090.00

5%

Contingency

\$14,910

Engineer's Estimate

\$300,000.00

Prepared by: CAB (July 2013)