



**US Army Corps
of Engineers**
Rock Island District

PUBLIC NOTICE

Applicants: Mrs. William Corbin
and Mr. Wesley J. Roeschke

Date: March 25, 2004

Expires: April 23, 2004

CEMVR-OD-P-2004-157

Section: 404

**Joint Public Notice
US Army Corps of Engineers
Iowa Department of Natural Resources**

1. Applicants. Mrs. William Corbin, 1436 Grundy Avenue, Merville, Iowa 51039.
Mr. Wesley J. Roeschke, 2520 – 140th Street, Merville, Iowa 51039.
2. Project Location. Section 30, Township 89 North, Range 44 West, near Merville, Woodbury County, Iowa; Mud Creek.
3. Project Description. The applicants propose to realign and stabilize two stream bends. The purpose of the project is to protect adjacent agricultural land. The length of existing stream, within the project area, is 400 feet. The normal streambed is 16 to 20 feet wide. Depth from top-of-bank to streambed is 14 feet. Top width is 94 feet from bank to bank. Where stable, the banks are sloped and grass covered. The outside banks on the stream bends are vertical and actively sluffing. The upstream meander has a build up of silt 200 feet long x 5 feet deep x 30 feet wide. The downstream meander has a build up of silt 120 feet long x 5 feet deep x 20 to 30 feet wide. The excavated channel will be 320 feet long. The net reduction in channel length will be 80 feet, which is a 20% reduction. The excavated channel will have a minimum bottom width of 16 feet, center depth of 14 feet, and top width of approximately 94 feet. The banks will be sloped no steeper than 2 (horizontal) to 1 (vertical). Some banks may be at a 3 (h) to 1 (v) grade. Using an excavator and dozer, the soil material will be moved from the deposition side into the meander channel. The bank fill will be built up and regraded. The opposite bank will also be regraded. Mesh or filter fabric will be laid on the bank where the fill material was built up. Clean broken concrete will be placed over the fabric to armor the fresh fill material. The broken concrete will range in size with widths of 6 inches to 3 feet, and thickness of 4 inches to 1 foot. Bank areas and other disturbed areas, not covered with riprap, will be seeded to establish permanent grass cover.

According to the Soil Survey of Woodbury County, the soil in the project area is McPaul silt loam, 0 to 2 percent slope (Mapping Unit 70). This is a well drained to moderately well drained bottomland soil. In most places, this soil is subject to occasional flooding. Channel down-cutting and bank sluffing is a serious hazard. This soil may contain Hydric Inclusions. However, due to the deeply incised channel, it is unlikely any wetlands or farmed wetlands exist in or near the project area. A wetland delineation was not required. The land on both sides of the stream is in intensive row crop production. Cropping is near to the edge of the banks. There are no grass buffer strips. The 1990 GIS aerial photography shows severe bank failure had occurred along the left (East) bank from the project site and upstream to a prominent stream meander where the channel had migrated into the steep hillside. Approximately 1200 feet of stream channel experienced severe sluffing. The 2002 GIS aerial photo shows the stream channel, within the project area, has since migrated westward, forming silt fans and more pronounced stream bends. Additional meanders are forming immediately downstream. This stream reach appears to be experiencing both streambed downcutting, and lateral migration due to bank toe undercutting. A grade stabilization structure is located on the downstream side of the county road bridge north of the project site. This structure has effectively protected the county road bridge by stopping the present channel degradation from advancing upstream.

4. Agency Review and Where to Reply.

a. Department of the Army, Corps of Engineers. The Department of the Army application is being processed under Section 404 of the Clean Water Act (33 U.S.C. 1344).

b. State of Iowa. The project plans have been submitted to the Iowa Department of Natural Resources for state certification of the proposed work in accordance with Section 401 of the Clean Water Act. The certification, if issued, will express the Department's opinion that the proposed activity will comply with Iowa's water quality standards (Chapter 61 IAC). The applicant has also applied for authorization of work in the floodplain pursuant to Chapter 455B of the Iowa Code and other applicable state permits. Written comments concerning possible impacts to waters of Iowa should be addressed to: Iowa Department of Natural Resources, 900 East Grand Avenue, Des Moines, Iowa 50319. A copy of the comments should be provided to the Corps of Engineers office (see paragraph 11. of this public notice for address).

5. Historical/Archaeological. The Corps consulted with the State of Iowa geographic information systems (GIS) archeological site and survey databases as maintained by the Office of the State Archaeologist of Iowa and the State Historical Society of Iowa and current as of July 2002. The query determined that there were no previously recorded archeological sites in the permit area and that the area had not been surveyed. The permit area is located on Mud Creek and involves straightening of approximately 400 feet of the channel. The Corps has determined that no historic properties are affected by issuance of this permit for channel straightening because the work is confined to the active meanderbelt of the creek. Therefore, it is the opinion of the Corps that issuance of the permit will not affect historic properties because "the nature, scope, and magnitude of the work, and/or structures to be permitted are such that there is little likelihood that a historic property exists or may be affected" (33 CFR Part 325, Appendix C.3.b).

6. Endangered Species. District staff have performed a preliminary review of this application for the potential impact on threatened or endangered species pursuant to Section 7 of the Endangered Species Act as amended. Based upon the information provided and available at this time, our preliminary determination is that the proposed activity would have no effect on federally-listed endangered or threatened species or critical habitat. While no consultation has been initiated with the United States Fish and Wildlife Service (FWS) at this time, we are further coordinating this application with the FWS and the respective resource agencies through this public notice. Accordingly, our preliminary determination is subject to change should further information become available.

7. Dredge/Fill Material Guidelines. The evaluation of the impact of the proposed activity on the public interest will also include application of the guidelines promulgated by the Administrator of the United States Environmental Protection Agency under authority of Section 404(b) of the Clean Water Act (40 CFR Part 230).

8. Public Interest Review. The decision whether to issue the Corps permit will be based on an evaluation of the probable impact including cumulative impacts of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefit, which reasonably may be expected to accrue from the proposal, must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the proposal will be considered including the cumulative effects thereof; among those are conservation, economics, aesthetics, general environmental concerns, wetlands, cultural values, fish and wildlife values, flood hazards, floodplain values, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food production and, in general, the needs and welfare of the people.

9. Who Should Reply. The Corps of Engineers is soliciting comments from the public; Federal, state, and local agencies and officials; Indian Tribes; and other interested parties in order to consider and evaluate the impacts of this proposed activity. Any comments received will be considered by the Corps of Engineers to determine whether to issue, modify, condition or deny a permit for this proposal. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and the other public interest factors listed above. Comments are used in the preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity. These statements should be submitted on or before the expiration date specified at the top of page 1. These statements should bear upon the adequacy of plans and suitability of locations and should, if appropriate, suggest any changes considered desirable.

10. Public Hearing Requests. Any person may request, in writing, within the comment period specified in this notice, that a public hearing be held to consider this application. Requests for public hearings shall state, with particularity, the reasons for holding a public hearing. A request may be denied if substantive reasons for holding a hearing are not provided.

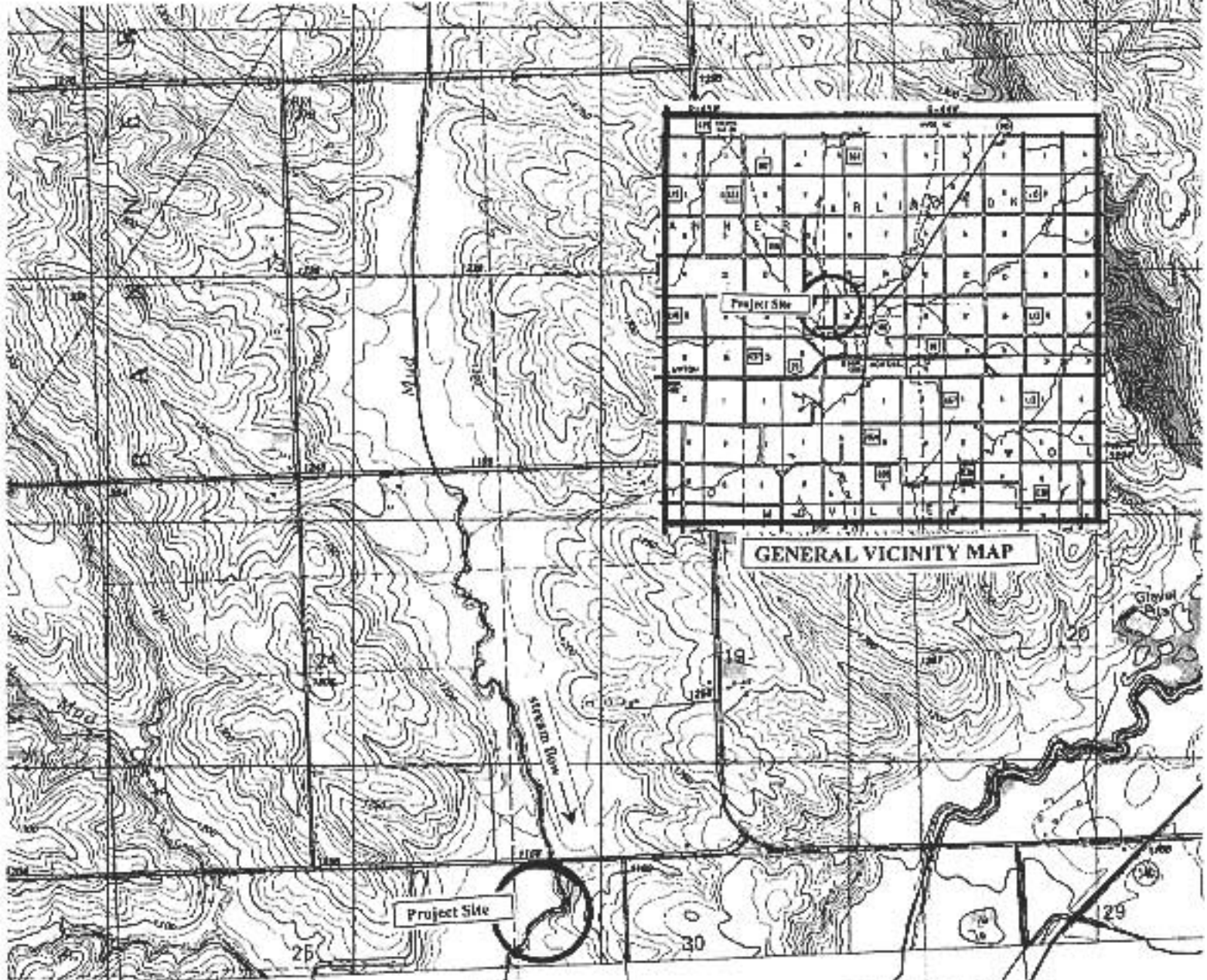
11. Reply to the Corps. Comments concerning the Corps permit should be addressed to the District Engineer, US Army Corps of Engineers, Rock Island District, ATTN: OD-P, Clock Tower Building - Post Office Box 2004, Rock Island, Illinois 61204-2004. **Mr. Marlyn W. Schafer (309/794-5377)** may be contacted for additional information (email: marlyn.schafer@usace.army.mil).

Attach
Plan

Marlyn W. Schafer
Project Manager
Regulatory Branch

REQUEST TO POSTMASTERS: Please post this notice conspicuously and continuously until the expiration date specified at the top of page 1.

NOTICE TO EDITORS: This notice is provided as background information for your use in formatting news stories. This notice is not a contract for classified display advertising. For more information call the Rock Island District Public Affairs Office, 309/794-5274.

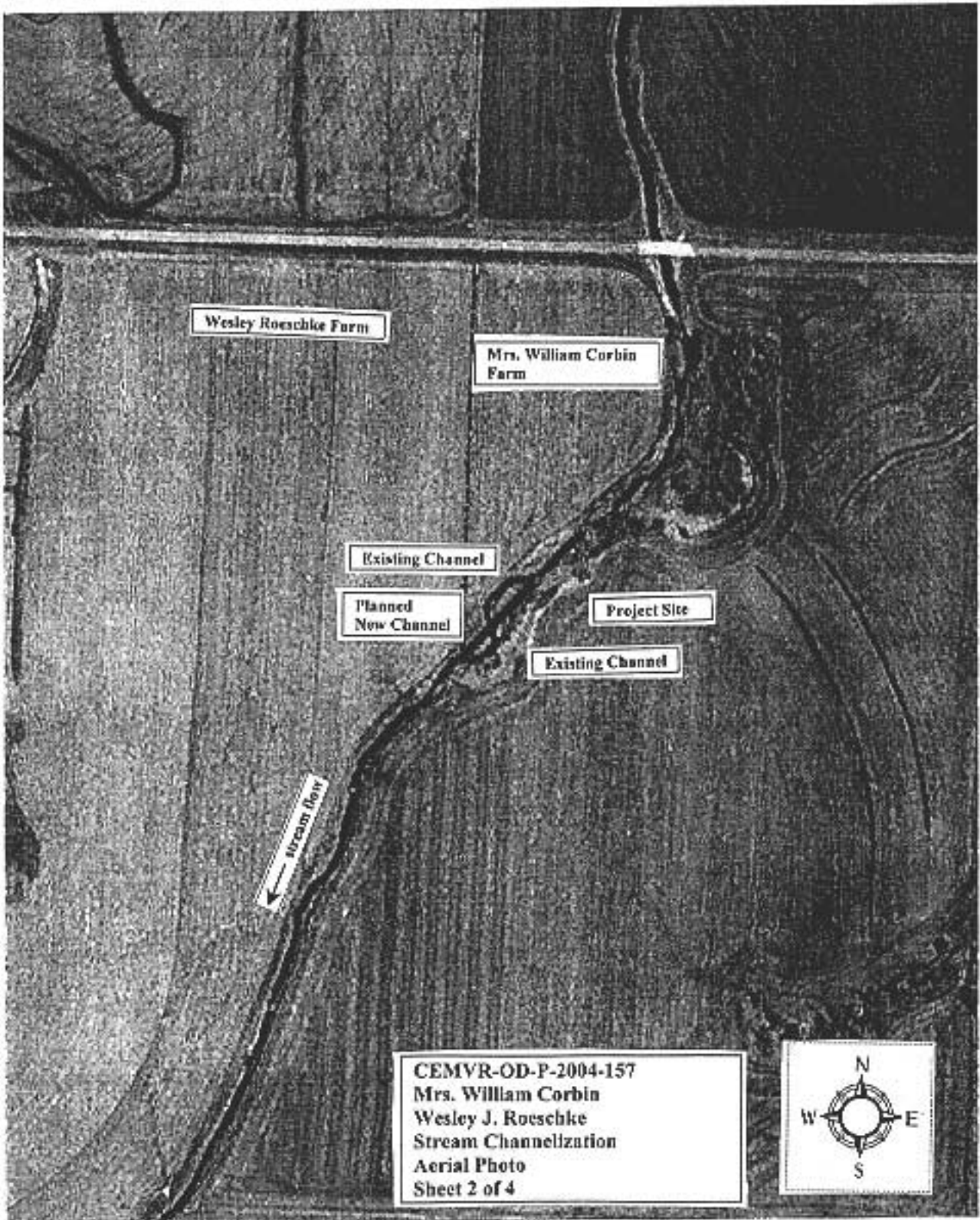


GENERAL VICINITY MAP



Woodbury Co., Iowa
1 22478

CEMVR-OD-P-2004-157
Mrs. William Corbin
Wesley J. Roeschke
Stream Channelization
Location / Topographic Map
Sheet 1 of 4



Wesley Roeschke Farm

Mrs. William Corbin Farm

Existing Channel

Planned New Channel

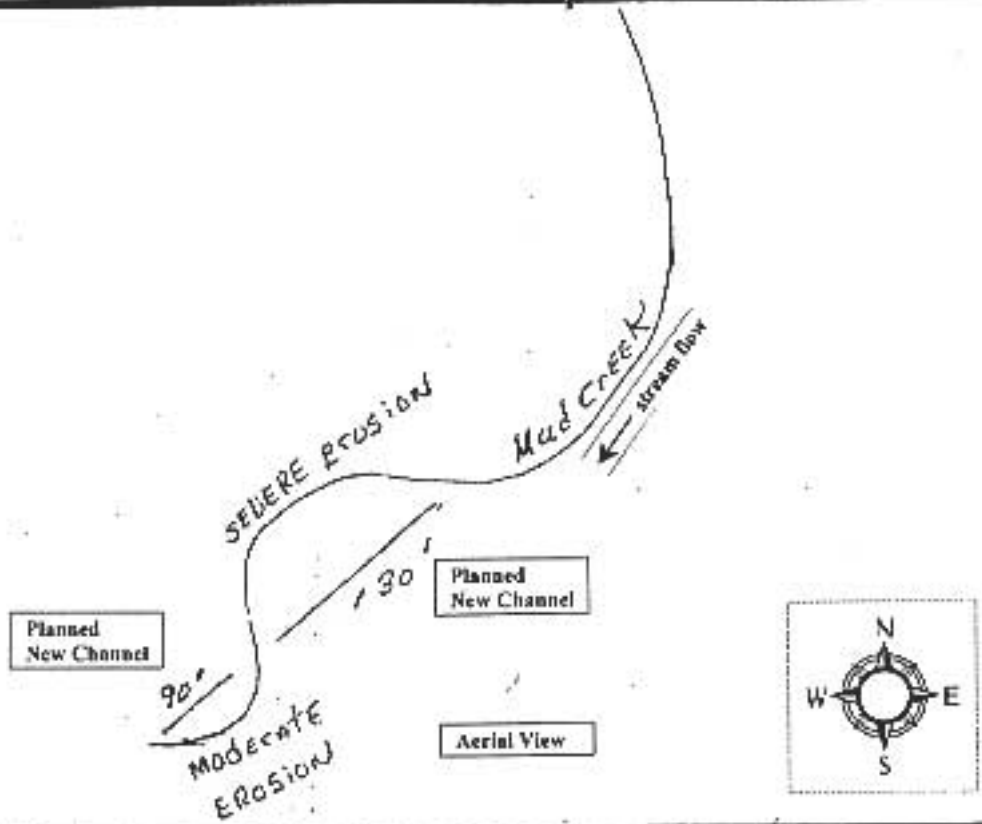
Project Site

Existing Channel

Stream Flow

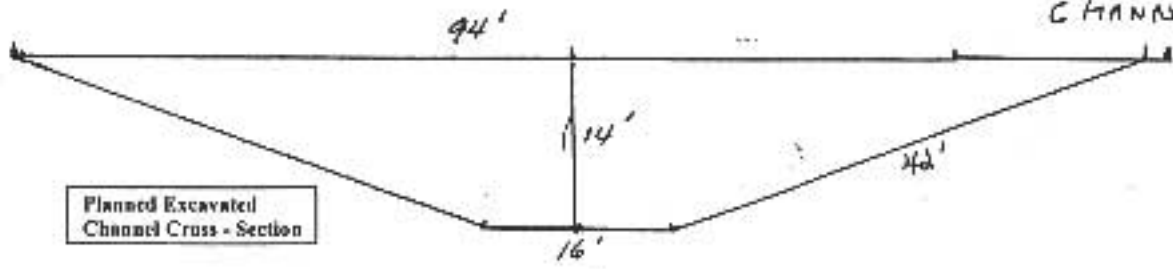
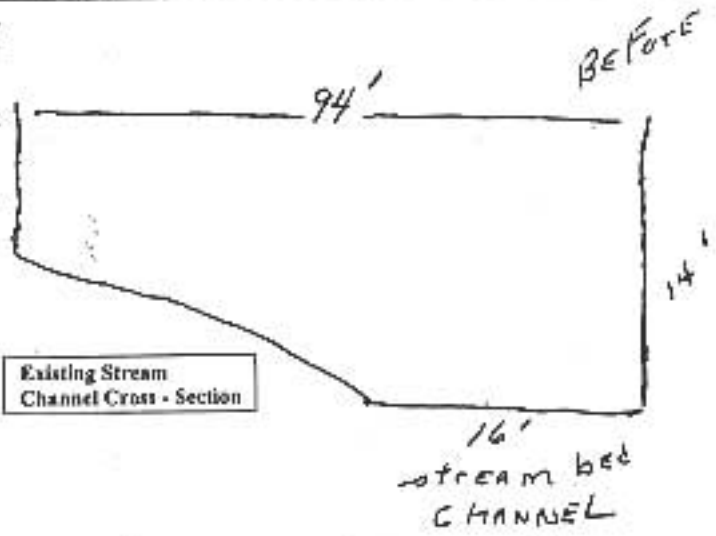
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Mrs. William Corbin
Wesley J. Roeschke
Stream Channelization
Aerial Photo
Sheet 2 of 4





WESLEY J. ROESCHKE
 2520 140th St.
 MOUILLE Iowa
 51039

SCALE 1" = 4'



Rock RIFFLE structure located at county bridge about 900ft. north of project site

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 Mrs. William Corbin
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 Stream Channelization
 Site Plan
 Sheet 3 of 4

