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**REMOVAL ACTION UNDER THE COMPREHENSIVE ENVIRONMENTAL  
RESPONSE, COMPENSATION AND LIABILITY ACT AT THE FERNALD  
ENVIRONMENTAL MANAGEMENT PROJECT, HAMILTON, COUNTY,  
OHIO**

07/27/93

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LETTER



**Department of Energy**  
**Fernald Environmental Management Project**  
 P.O. Box 398705  
 Cincinnati, Ohio 45239-8705  
 (513) 738-6357

**JUL 27 1993**  
 DOE-2549-93

Mr. Doug Shelton, Chief  
 Regulatory Branch  
 Army Corps of Engineers  
 P.O. Box 59  
 Louisville, KY 40201-0059

Dear Mr. Shelton:

**REMOVAL ACTION UNDER THE COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION AND LIABILITY ACT AT THE FERNALD ENVIRONMENTAL MANAGEMENT PROJECT, HAMILTON COUNTY, OHIO**

During April and May, 1993, the Fernald Environmental Management Project (FEMP) performed an emergency removal action to stabilize the left descending bank of Paddys Run Creek, adjacent to an inactive flyash pile. The purpose of the project was to provide bank stabilization to mitigate the observed erosion in the area. The erosion, if allowed to continue, could have resulted in the release of waste into Paddys Run Creek.

This emergency removal action was authorized through the Nationwide Permit (NWP) #13, Bank Stabilization and a concurrence letter from your office was received on April 1, 1993. The action consisted of constructing a weighted berm, approximately 220 feet long, in Paddys Run Creek at the base of the inactive flyash pile.

The proposed second phase of this time-critical removal action, which is to ensure long term stabilization of the bank, is underway. An alternatives assessment was performed based on results of geotechnical borings and a comparison of the alternatives' stability factors. The results of this assessment indicated that up to three additional feet in berm height and toe protection would be needed to provide long term protection prior to final remedial action under Comprehensive Environmental Response Compensation and Liability Act (CERCLA).

A location map of the project area is provided in Enclosure 1. Enclosures 2-4 provide a plan and two profile views of the proposed second phase of the removal action. Enclosures 5-9 provide as-built plans and four profile views of the bank stabilization installed under the emergency action. The profile views show the stream channel contour immediately after construction and approximately one month later. As can be observed, erosion at the toe of the berm is occurring, thus necessitating the proposed toe protection. The three feet added to the height of the berm at critical areas provides the necessary bank protection and a theoretical stability factor of 1.9.

This second phase of the removal action still meets the conditions of the NWP #13. However, with the addition of the toe protection, the amount of stabilization material per running foot below the ordinary high water level will be greater than one cubic yard. This condition invokes the General Notification requirement of NWP #13 and a requirement for the director to determine that no adverse impact to the stream will occur.

Please consider this letter as our notification to you of the proposed action described. We plan to begin work by August 30, 1993 and request a letter of concurrence under the authorization of NWP #13.

If you have any questions, please contact Rod Warner at (513) 648-3156 or Behram Shroff at (513) 648-3148.

Sincerely,

  
Raymond J. Hansen  
Acting Manager

FN:Shroff

cc:

M. McCune, EM-42 TREV



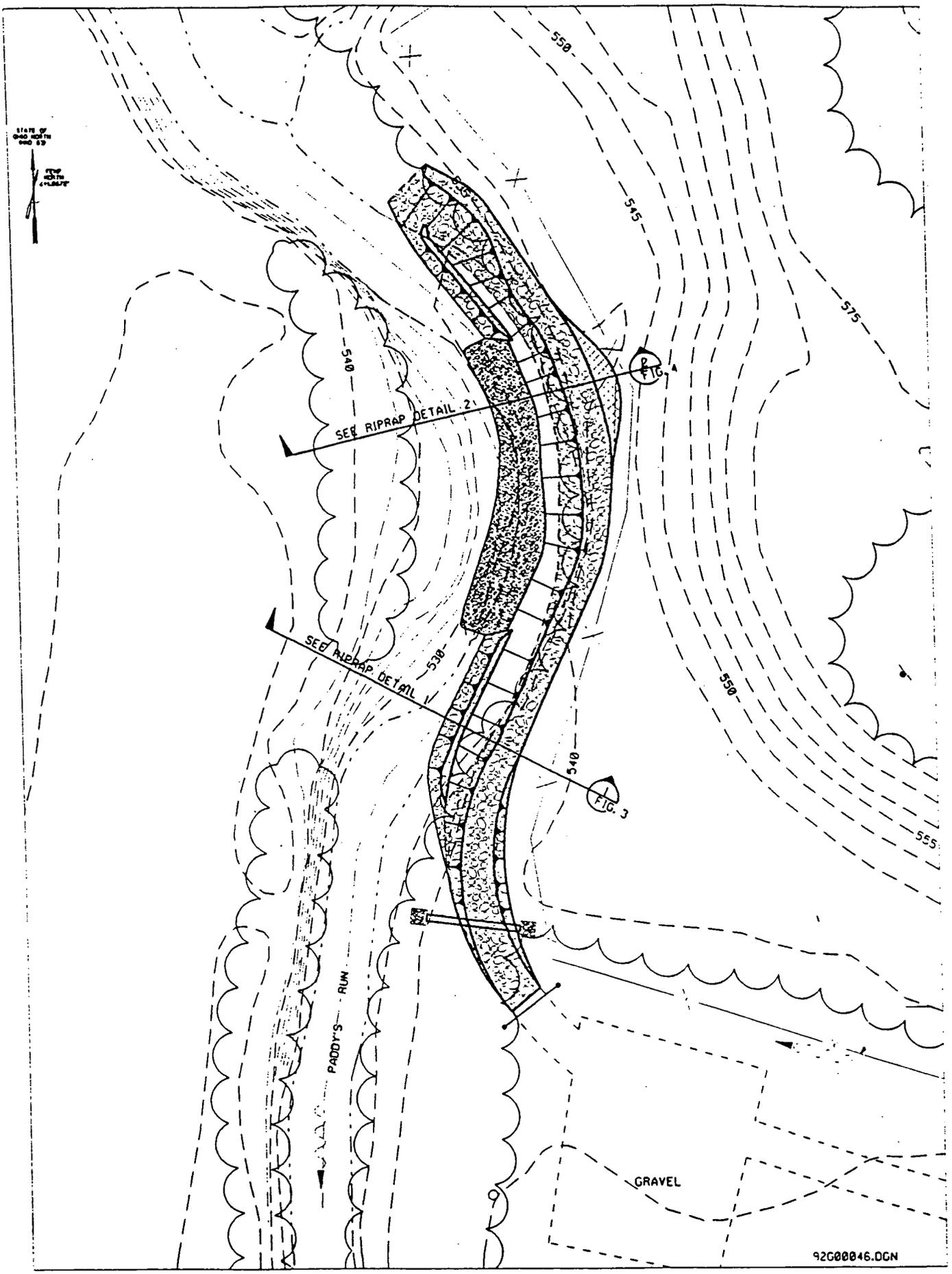
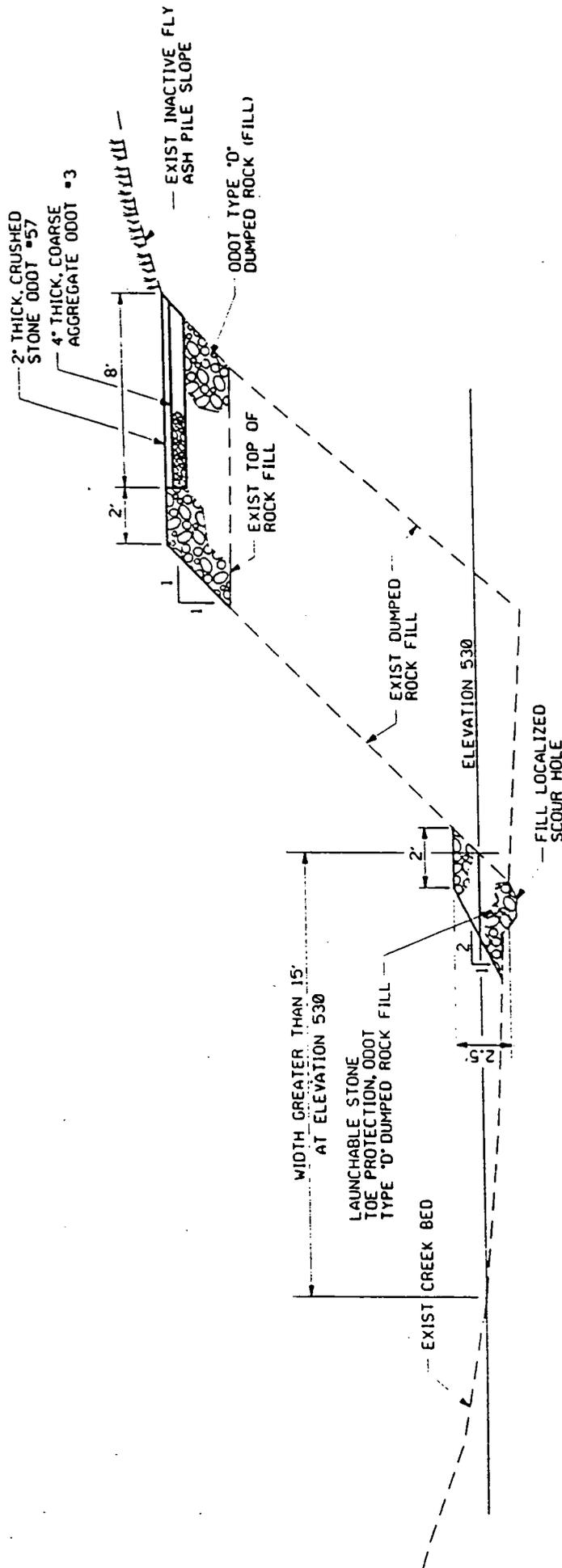


FIGURE NO. 2

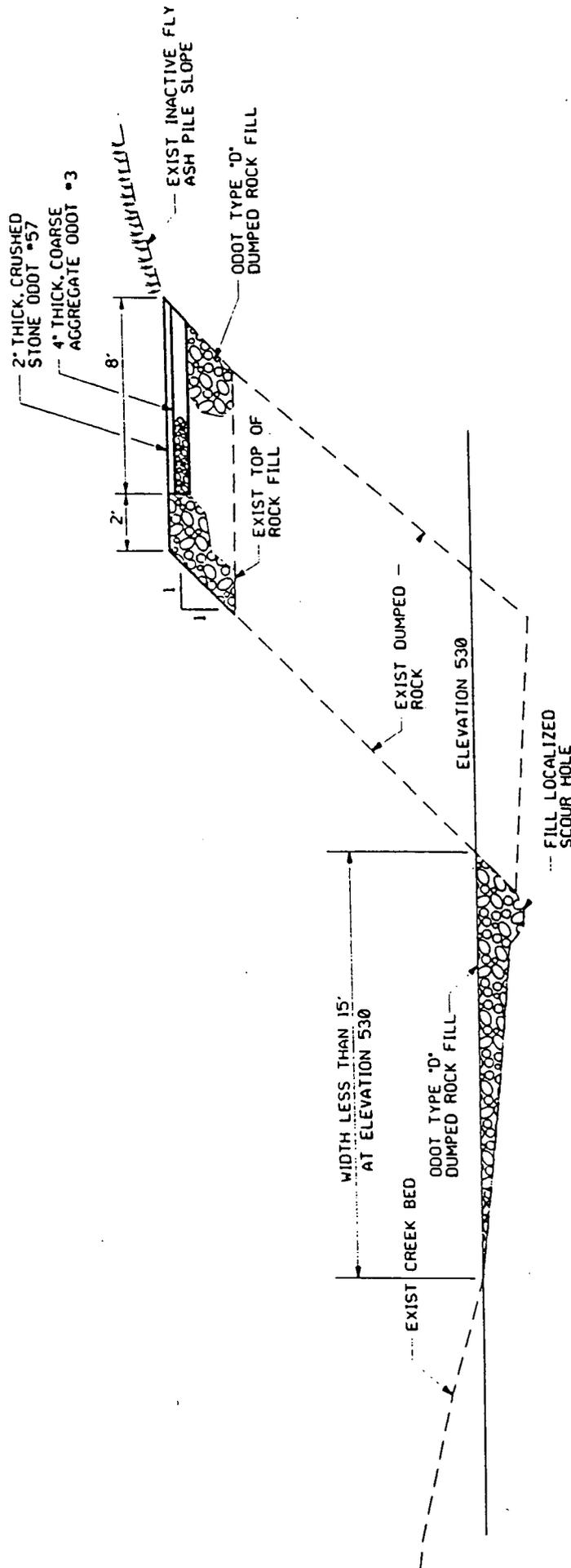
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RIPRAP DETAIL 1

NTS

FIGURE NO. 3



RIPRAP DETAIL (2)  
NTS

FIGURE NO.4

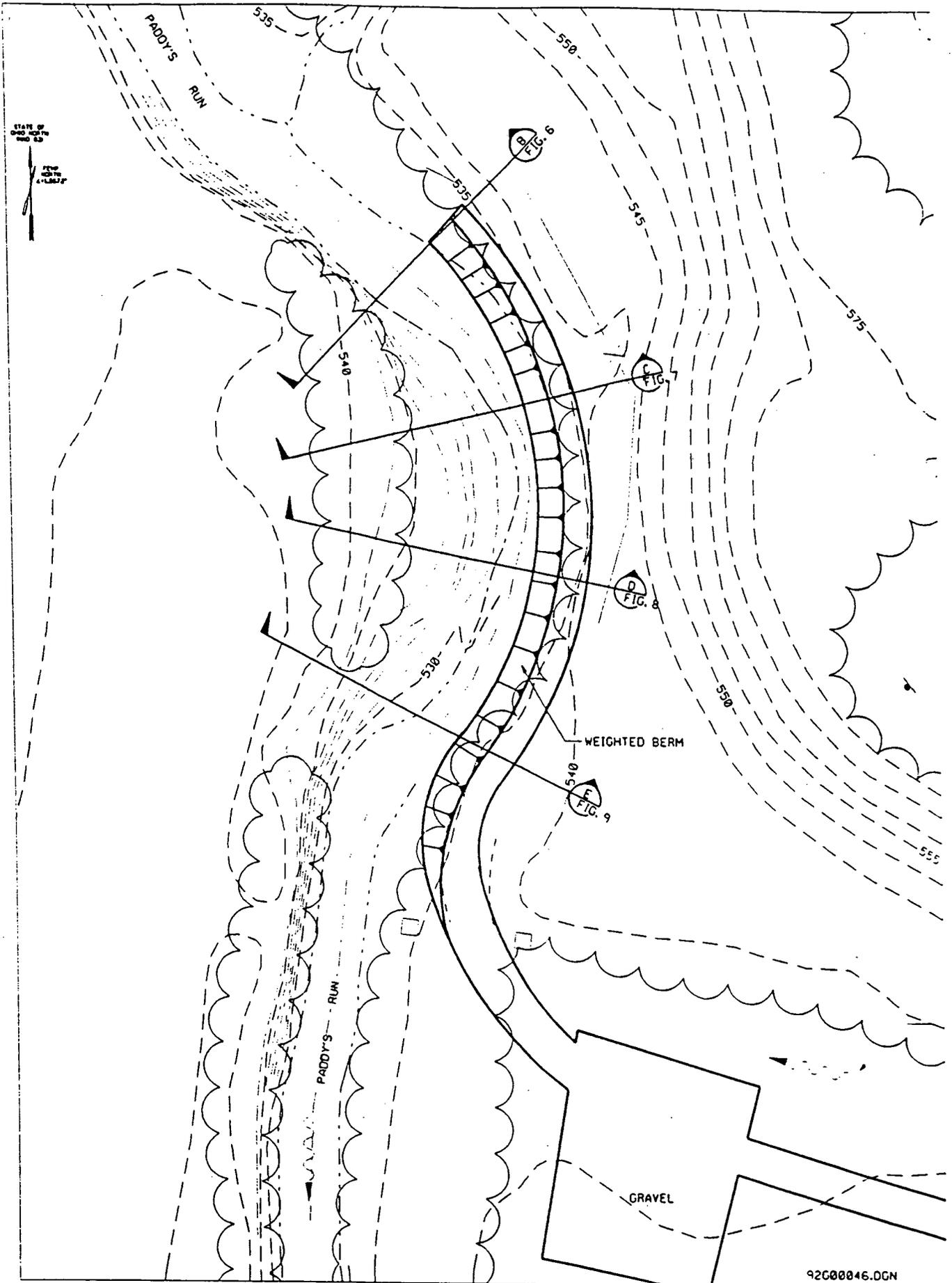
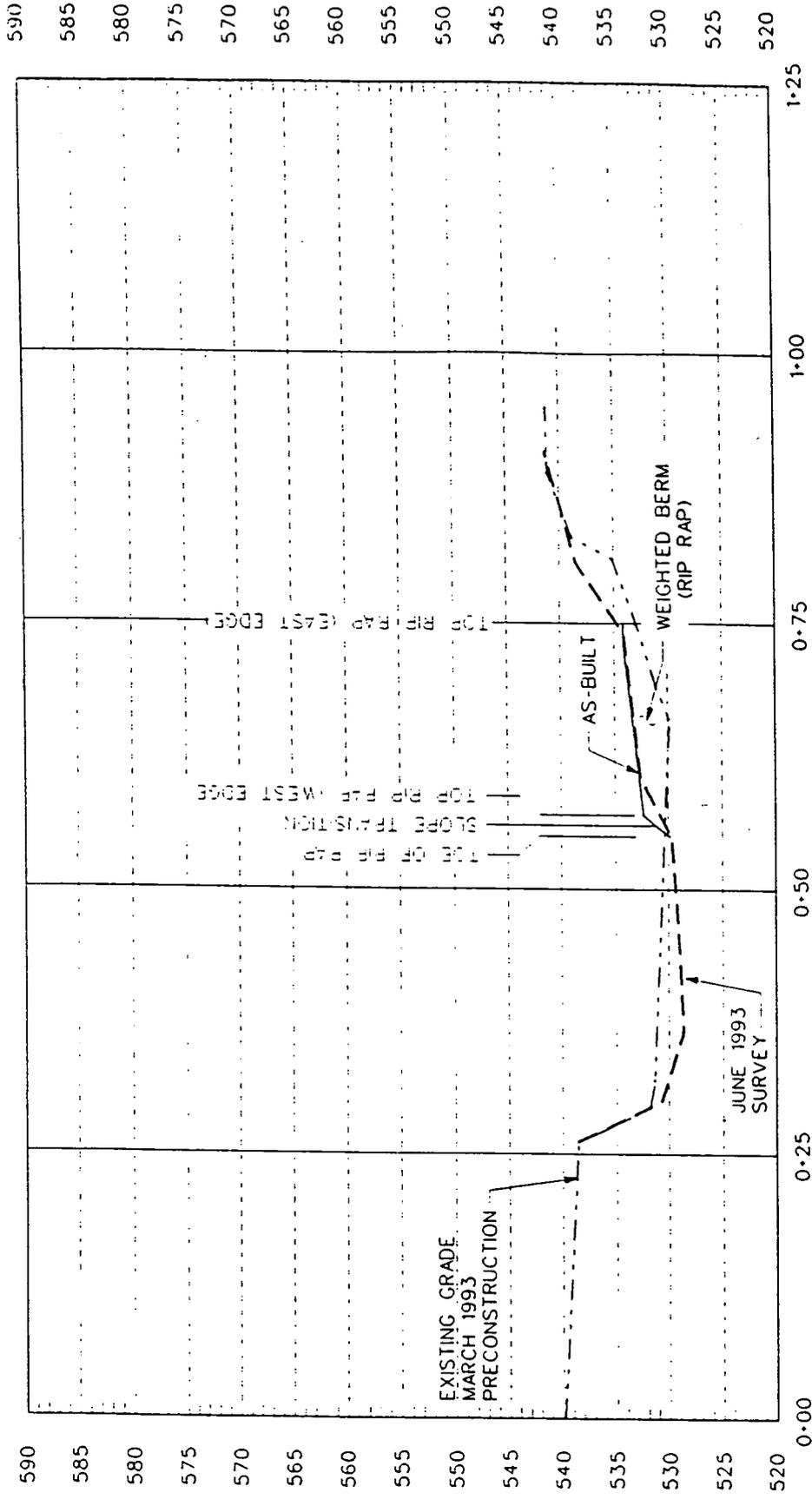


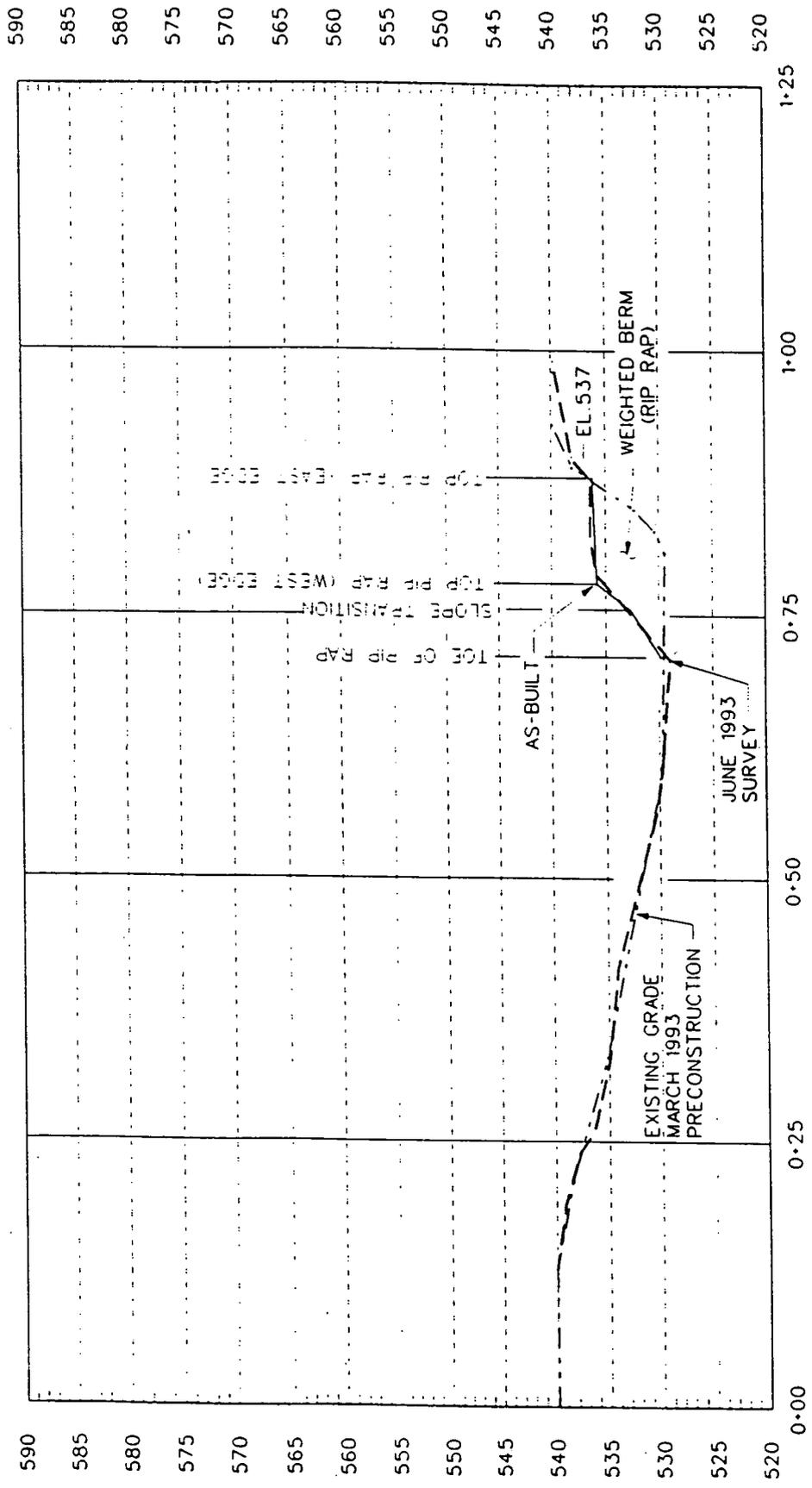
FIGURE NO. 5

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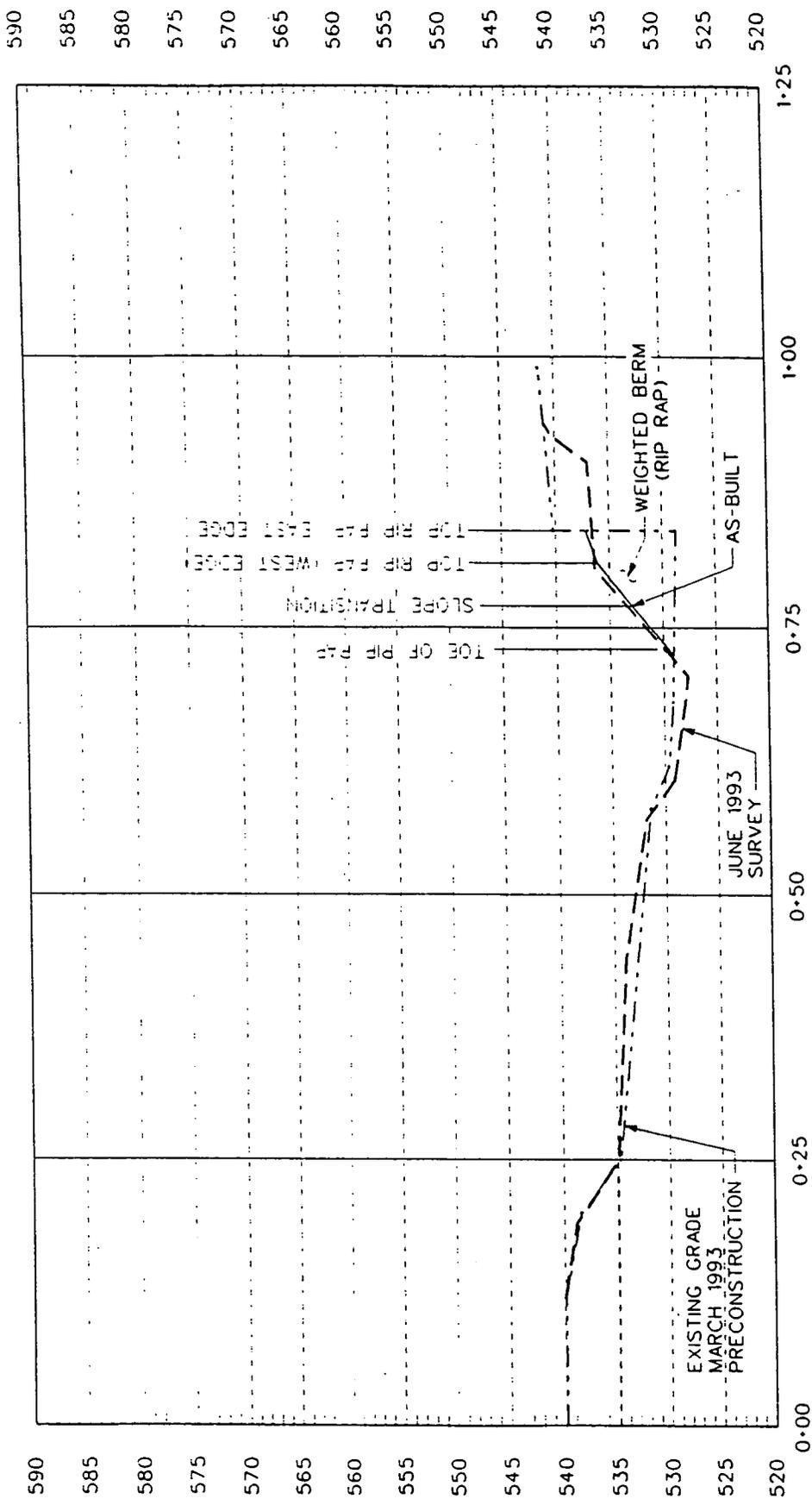
SECTION "B"

FIGURE NO.6



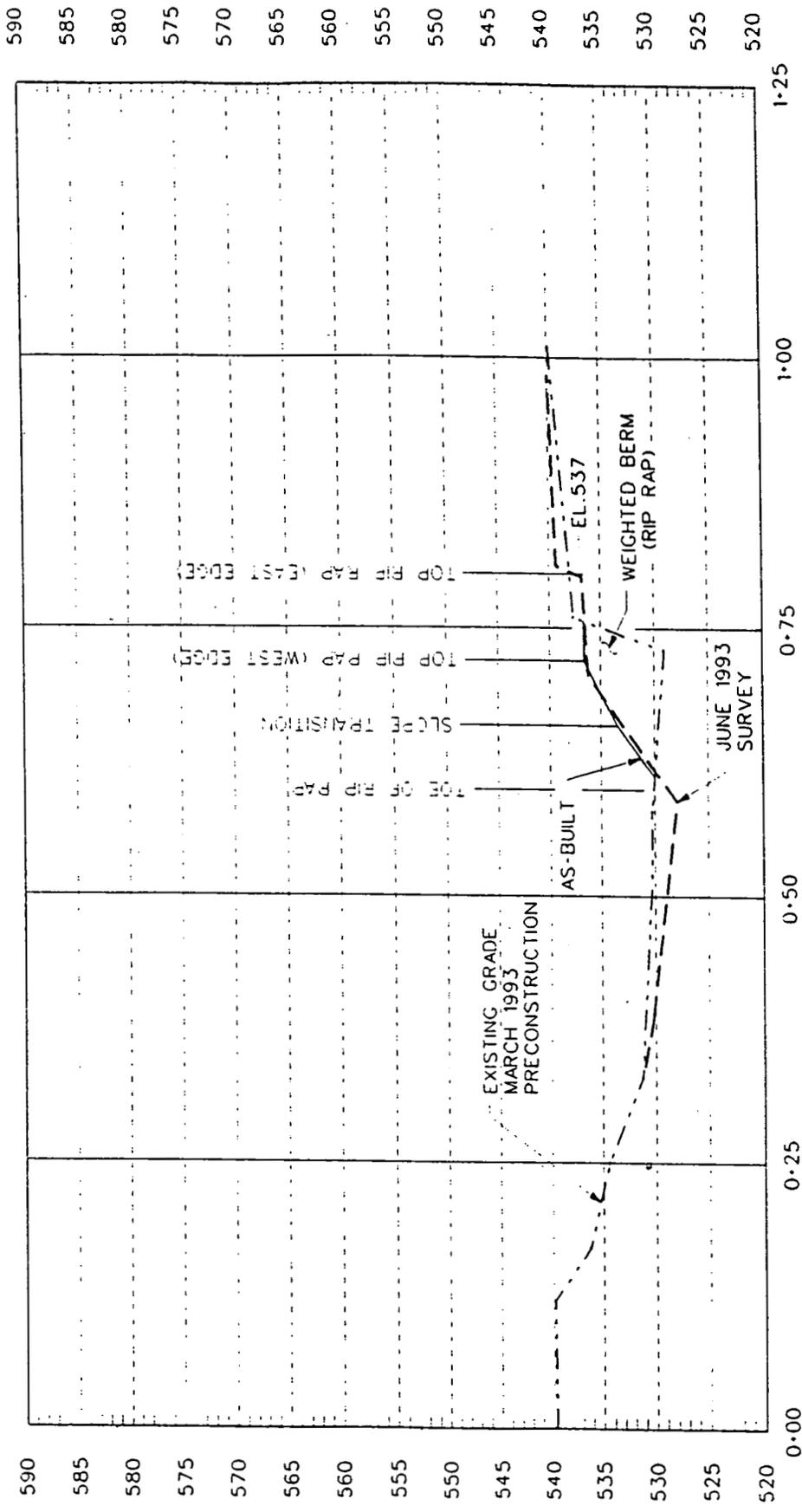
SECTION "C"

FIGURE NO.7



SECTION "D"

FIGURE NO.8



SECTION "E"

FIGURE NO.9