

May 12, 2008

Mr. Cody Wheeler  
Regulatory Branch  
U.S. Army Corps of Engineers  
700 Federal Building  
601 East 12<sup>th</sup> Street  
Kansas City, MO 64106

**HNTB**

**Re: Switzer Road (151<sup>st</sup> Street to 143<sup>rd</sup> Street)  
City of Overland Park, Kansas**

Dear Mr. Wheeler:

HNTB is beginning the final design process for the above referenced project. This project will involve widening the present two-lane roadway to a four-lane roadway section with a raised median and upgrading the existing vertical alignment. The roadside ditches that currently exist on Switzer Road will be replaced with an enclosed storm sewer system. Within the project limits, there are two stream crossings with an Ordinary High Water Mark (OHWM). The City Standards include designing for a no-rise in 100-year backwater and no 100-year roadway overtopping. The City of Overland Park is administering the project. The right-of-way acquisition is scheduled to begin in May 2008, and construction is anticipated to start in March 2009. Please find the following enclosed in this submittal: a completed 404 permit application, a USGS topographic map, a project location map, and plan sheets and project photos at the two stream crossings.

The existing 8.5' x 5.5' corrugated metal culvert crossing, located approximately at Sta. 110+12, will be replaced with a new double 8' x 5' reinforced concrete box culvert. Today, the natural streamway is blocked upstream of the project with a dam and small farm pond. A primary spillway routes the smaller flows toward the upstream end of the proposed culvert. The proposed plan includes tying this primary spillway into the culvert; therefore, the drainage flowing into the inlet is collected into a standard grass swale with no OHWM. This culvert realignment bypasses approximately 200 feet of existing stream on the upstream end. The only disturbance on the downstream end of the culvert will be the installation of riprap to dissipate energy at the new culvert outlet. Due to the roadway widening, the culvert eliminates 140 feet of existing stream on the downstream end. The total disturbance (both upstream and downstream) below the OHWM is approximately 0.14 acres. See attached sheets for culvert layout and project grading limits.

The existing 8.5' x 12.5' corrugated metal culvert crossing, located approximately at Sta. 126+65, will be replaced with a new double 18' x 8' reinforced concrete box culvert. The upstream end of the culvert utilizes a weir wall and concrete apron on the south barrel to direct low flows into a single barrel of the culvert. This is intended to maintain a more natural stream width and reduce sediment build-up. Riprap will be placed upstream of the culvert to help stabilize steep bank grades, and maintain a consistent stream cross section entering the new structure. Riprap will be placed on the

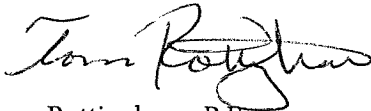
downstream end of the culvert to dissipate energy at the new culvert outlet and provide bank stabilization for a short channel realignment. The total disturbance below the OHWM for this crossing is 0.25 acres. See attached sheets for culvert layout and project grading limits.

We are submitting this letter to request your jurisdictional determination and hope to receive approval for a Nationwide permit. Both roadway stream crossings exist today, and will be improved with the construction of this project. Therefore, no adverse backwater will occur.

If the information provided is not adequate for the Nationwide permit, would you please advise as to the appropriate measures that must be taken to meet the requirements of the U.S. Army Corps of Engineers for this project. Please do not hesitate to call (913-312-4823), if you have any questions regarding the project or the permit application. Thank you for your assistance in this matter.

Very truly yours,

HNTB CORPORATION

A handwritten signature in black ink, appearing to read "Tom Rottinghaus", written in a cursive style.

Tom Rottinghaus, P.E.  
Project Manager

Enclosures

Copy to: Wayne Gudenkauf, P.E. – City of Overland Park

The Public burden for this collection of information is estimated to average 10 hours per response, although the majority of applications should require 5 hours or less. This includes the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Defense, Washington Headquarters Service Directorate of Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302; and to the Office of Management and Budget, Paperwork reduction Project (0710-0003), Washington, DC 20503. Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number. Please DO NOT RETURN your form to either of those addresses. Completed applications must be submitted to the District Engineer having jurisdiction over the location of the proposed activity.

## PRIVACY ACT STATEMENT

Authorities: Rivers and Harbors Act, Section 10, 33 USC 403; Clean Water Act, Section 404, 33 USC 1344; Marine Protection, Research and Sanctuaries Act, 33 USC 1413, Section 103. Principal Purpose: Information provided on this form will be used in evaluating the application for a permit. Routine Uses: This information may be shared with the Department of Justice and other federal, state, and local government agencies. Submission of requested information is voluntary, however, if information is not provided the permit application cannot be evaluated nor can a permit be issued. One set of original drawings or good reproducible copies which show the location and character of the proposed activity must be attached to this application (see sample drawings and instructions) and be submitted to the District engineer having jurisdiction over the location of the proposed activity. An application that is not completed in full will be returned.

## (ITEMS 1 THRU 4 TO BE FILLED BY THE CORPS)

1. APPLICATION NO.	2. FIELD OFFICE CODE	3. DATE RECEIVED	4. DATE APPLICATION COMPLETED
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## (ITEMS BELOW TO BE FILLED BY APPLICANT)

5. APPLICANT'S NAME City of Overland Park Wayne Gudenkauf, PE (Project Manager)	8. AUTHORIZED AGENTS NAME AND TITLE (AN AGENT IS NOT REQUIRED) Tom Rottinghaus, PE (Project Manager)
6. APPLICANT'S ADDRESS City Hall 8500 Santa Fe Drive Overland Park, KS 66212	9. AGENT'S ADDRESS HNTB Corporation 7450 West 130 <sup>th</sup> St., Suite 400 Overland Park, KS 66213
7. APPLICANT'S PHONE NOS. W/AREA CODE	10. AGENT'S PHONE NOS. W/AREA CODE
a. Residence	a. Residence
b. Business 913-895-6000	b. Business 913-312-4823

## 11. STATEMENT OF AUTHORIZATION

I hereby authorize, Tom Rottinghaus to act in my behalf as my agent in the processing of this application and to furnish, upon request, supplemental information in support of this permit application.

Wayne A Gudenkauf  
APPLICANT'S SIGNATURE

5-23-08  
DATE

## NAME, LOCATION AND DESCRIPTION OF PROJECT OR ACTIVITY

12. PROJECT NAME OR TITLE (see instructions) Switzer Road (151 <sup>st</sup> Street to 143 <sup>rd</sup> Street)	14. PROJECT STREET ADDRESS (if applicable)
13. NAME OF WATERBODY, IF KNOWN (if applicable) Tomahawk Creek	
15. LOCATION OF PROJECT  Johnson Kansas COUNTY STATE	
16. OTHER LOCATION DESCRIPTIONS, IF KNOWN, (see instructions) T 14 S, R 24 E, Section 1. Located on Switzer Road between 143 <sup>rd</sup> Street and 151 <sup>st</sup> Street.	
17. DIRECTIONS TO THE SITE From downtown Kansas City, Missouri, take I-35 south to Overland Parkway/US 69 South (Exit 225B). Take Overland Parkway/US 69 South to the 151 <sup>st</sup> Street exit. Turn right (west) onto 151 <sup>st</sup> Street. Take 151 <sup>st</sup> Street to Switzer Road.	

18. NATURE OF ACTIVITY (Description of project, include all features)

(See attached sheet for Block 18)

19. PROJECT PURPOSE (Describe the reason or purpose of the project, see instructions)

The purpose of the project is to widen the present two-lane roadway to a four-lane roadway section with a raised median and upgrade the existing vertical alignment. The roadside ditches that currently exist on Switzer Road will be replaced with an enclosed storm sewer system. Within the project limits, there are two stream crossings with an Ordinary High Water Mark. The City Standards include designing for a no-rise in 100-year backwater and no 100-year roadway overtopping. Construction is anticipated to begin in March 2009 and end in winter 2009.

USE BLOCKS 20-22 IF DREDGED AND/OR FILL MATERIAL IS TO BE DISCHARGED

20. REASON(S) FOR DISCHARGE

Two existing culverts that are currently under capacity will be replaced and riprap will be placed upstream and downstream of these culverts to prevent scour. The riprap and bedding depth will be a maximum of 36".

21. TYPE(S) OF MATERIAL BEING DISCHARGED AND THE AMOUNT OF EACH TYPE IN CUBIC YARDS

Riprap quantities are shown on the attached plan sheets.

22. SURFACE AREA IN ACRES OF WETLANDS OR OTHER WATERS FILLED (see instructions)

The surface area that will be filled (below the OHWM) at the Sta. 110+12 culvert is 0.14 acres and 0.25 acres at the Sta. 126+65 culvert.

23. IS ANY PORTION OF THE WORK ALREADY COMPLETE? Yes \_\_\_\_\_ No X IF YES, DESCRIBE THE COMPLETED WORK

24. ADDRESSES OF ADJOINING PROPERTY OWNERS, LESSEES, ETC., WHOSE PROPERTY ADJOINS THE WATERBODY (If more than can be entered here, please attach a supplemental list.)

TRACT OWNER NAME(S)

MAILING ADDRESS

11	Justin & Lori Brinker	14750 Switzer Rd., Overland Park, KS 66221
12	Eric T. & Nancy P. Reynolds	14748 Switzer Rd., Overland Park, KS 66221
16	Abdolreza Yazdani	14886 Switzer Rd., Overland Park, KS 66221
17	Lance G. & Kelly K. Robben	10352 W. 150th St., Overland Park, KS 66221
21	Ray & Yvonne Mattix	10259 W. 149th Ter., Overland Park, KS 66221
31A	Brookwood Area Homes Association, Inc.	P.O. Box 480161, Kansas City, MO 64148

25. List of Other Certifications or Approvals/Denials Received from other Federal, State or Local Agencies for Work Described in This Application.

AGENCY	TYPE APPROVAL*	IDENTIFICATION NUMBER	DATE APPLIED	DATE APPROVED	DATE DENIED
City of O.P.	Floodplain Dev. Permit		will apply		
City of O.P.	Land Disturbance Permit		will apply		
KDHE	NPDES Permit		will apply		
KS DWR	Stream Obstruction Permit		have applied		
	(only for culvert at Sta. 126+65)				

\*Would include but is not restricted to zoning, building and flood plain permits.

26. Application is hereby made for a permit or permits to authorize the work described in this application. I certify that the information in this application is complete and accurate. I further certify that I possess the authority to undertake the work described herein or am acting as the duly authorized agent of the applicant.

Wayne A. Dudzinski  
SIGNATURE OF APPLICANT

5-23-08  
DATE

Tom R. R. R. R. R.  
SIGNATURE OF AGENT

5/12/08  
DATE

The application must be signed by the person who desires to undertake the proposed activity (applicant) or it may be signed by a duly authorized agent if the statement in block 11 has been filled out and signed.

18 U.S.C. Section 1001 provides that: Whoever, in any manner within the jurisdiction of any department or agency of the United States, knowingly and willfully falsifies, conceals, or covers up any trick, scheme, or disguises a material fact or makes any false, fictitious or fraudulent statements or representations or makes or uses any false writing or document knowing same to contain any false, fictitious or fraudulent statements or entry, shall be fined not more than \$10,000 or imprisoned not more than five years or both.

## **BLOCK 18 – Nature of Activity**

### **Roadway Widening**

The present two-lane roadway will be widened to a four-lane roadway section with a raised median and upgrading the existing vertical alignment.

### **Enclosed Storm Sewer System**

The roadside ditches that currently exist on Switzer Road will be replaced with an enclosed storm sewer system.

### **Stream Crossings**

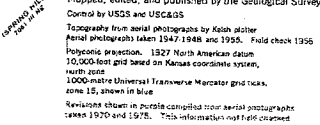
Within the project limits, there are two stream crossings with an Ordinary High Water Mark (OHWM). The City Standards include designing for a no-rise in 100-year backwater and no 100-year roadway overtopping.

#### ***Culvert at Sta. 110+12***

The existing 8.5' x 5.5' corrugated metal culvert crossing, located approximately at Sta. 110+12, will be replaced with a new double 8' x 5' reinforced concrete box culvert. Today, the natural streamway is blocked upstream of the project with a dam and small farm pond. A primary spillway routes the smaller flows toward the upstream end of the proposed culvert. The proposed plan includes tying this primary spillway into the culvert; therefore, the drainage flowing into the inlet is collected into a standard grass swale with no OHWM. This culvert realignment bypasses approximately 200 feet of existing stream on the upstream end. The only disturbance on the downstream end of the culvert will be the installation of riprap to dissipate energy at the new culvert outlet. Due to the roadway widening, the culvert eliminates 140 feet of existing stream on the downstream end. The total disturbance (both upstream and downstream) below the OHWM is approximately 0.14 acres. See attached sheets for culvert layout and project grading limits.

#### ***Culvert at Sta. 126+65***

The existing 8.5' x 12.5' corrugated metal culvert crossing, located approximately at Sta. 126+65, will be replaced with a new double 18' x 8' reinforced concrete box culvert. The upstream end of the culvert utilizes a weir wall and concrete apron on the south barrel to direct low flows into a single barrel of the culvert. This is intended to maintain a more natural stream width. Riprap will be placed upstream of the culvert to help stabilize steep bank grades, and maintain a consistent stream cross section entering the new structure. Riprap will be placed on the downstream end of the culvert to dissipate energy at the new culvert outlet and provide bank stabilization for a short channel realignment. The total disturbance below the OHWM for this crossing is 0.25 acres. See attached sheets for culvert layout and project grading limits.



THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS  
FOR SALE BY U. S. GEOLOGICAL SURVEY, DENVER, COLORADO 80226, OR RESTON, VIRGINIA 22092  
AND KANSAS GEOLOGICAL SURVEY, LAWRENCE, KANSAS 66044  
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

ROAD CLASSIFICATION

Heavy duty.....	Light duty.....
Medium duty.....	Unimproved dirt.....

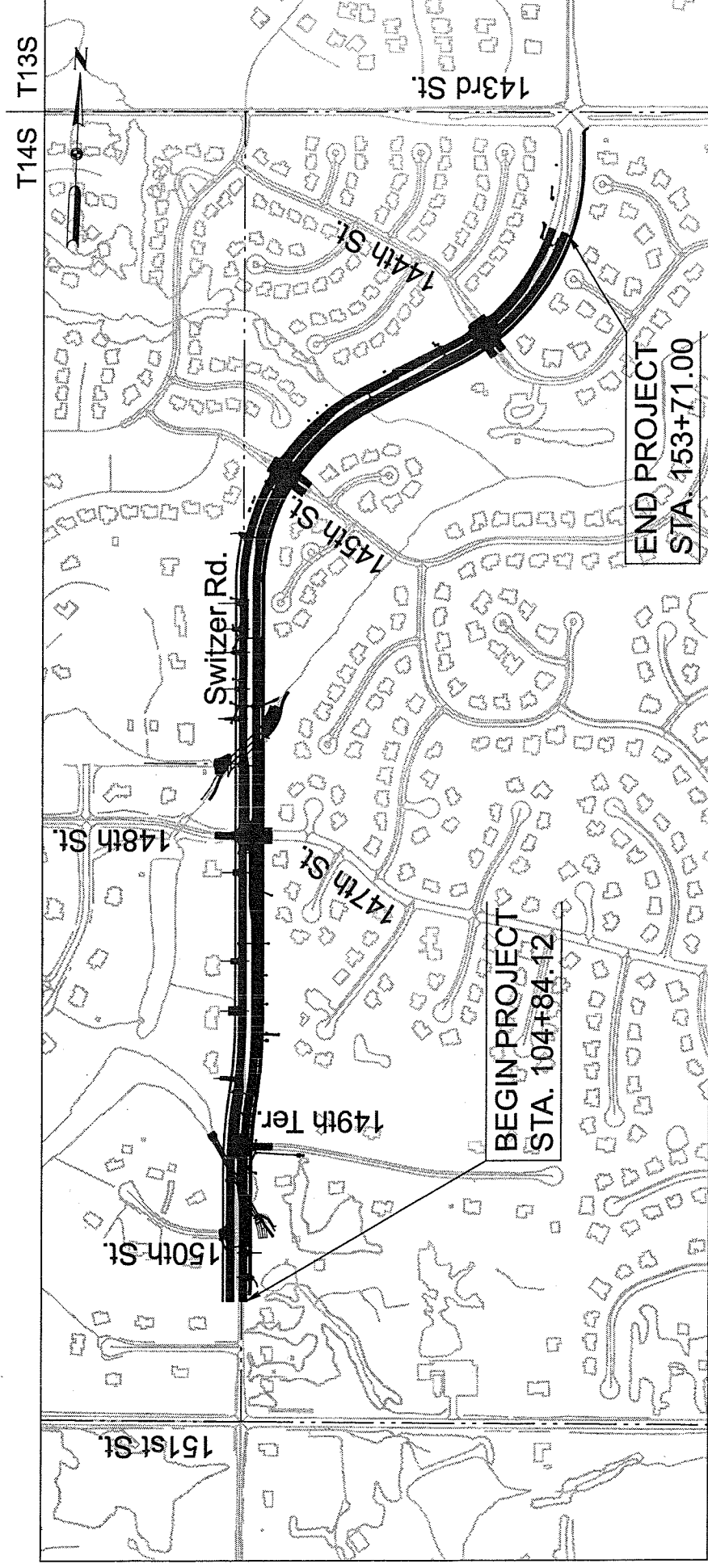
U. S. Route

STILWELL, KANS.  
N3245-WM437 5/7 5

1956  
PHOTOGRAPHED 1970 AND 1975  
AMS 2061 13W-SERIES VB75

# SWITZER ROAD 151ST STREET TO 143RD STREET

THE CITY OF OVERLAND PARK, KANSAS



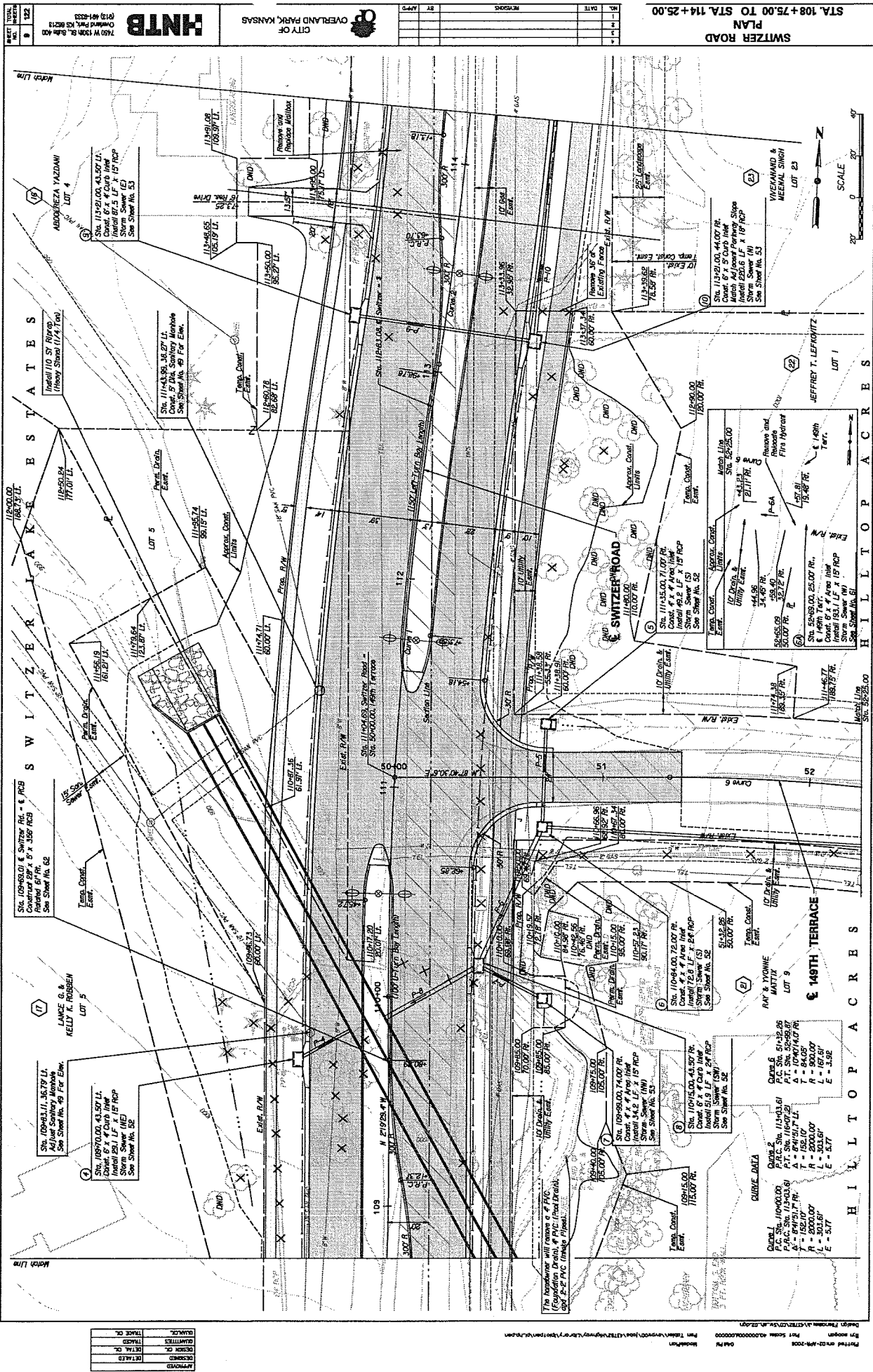
RANGE 24E

## PROJECT LOCATION MAP

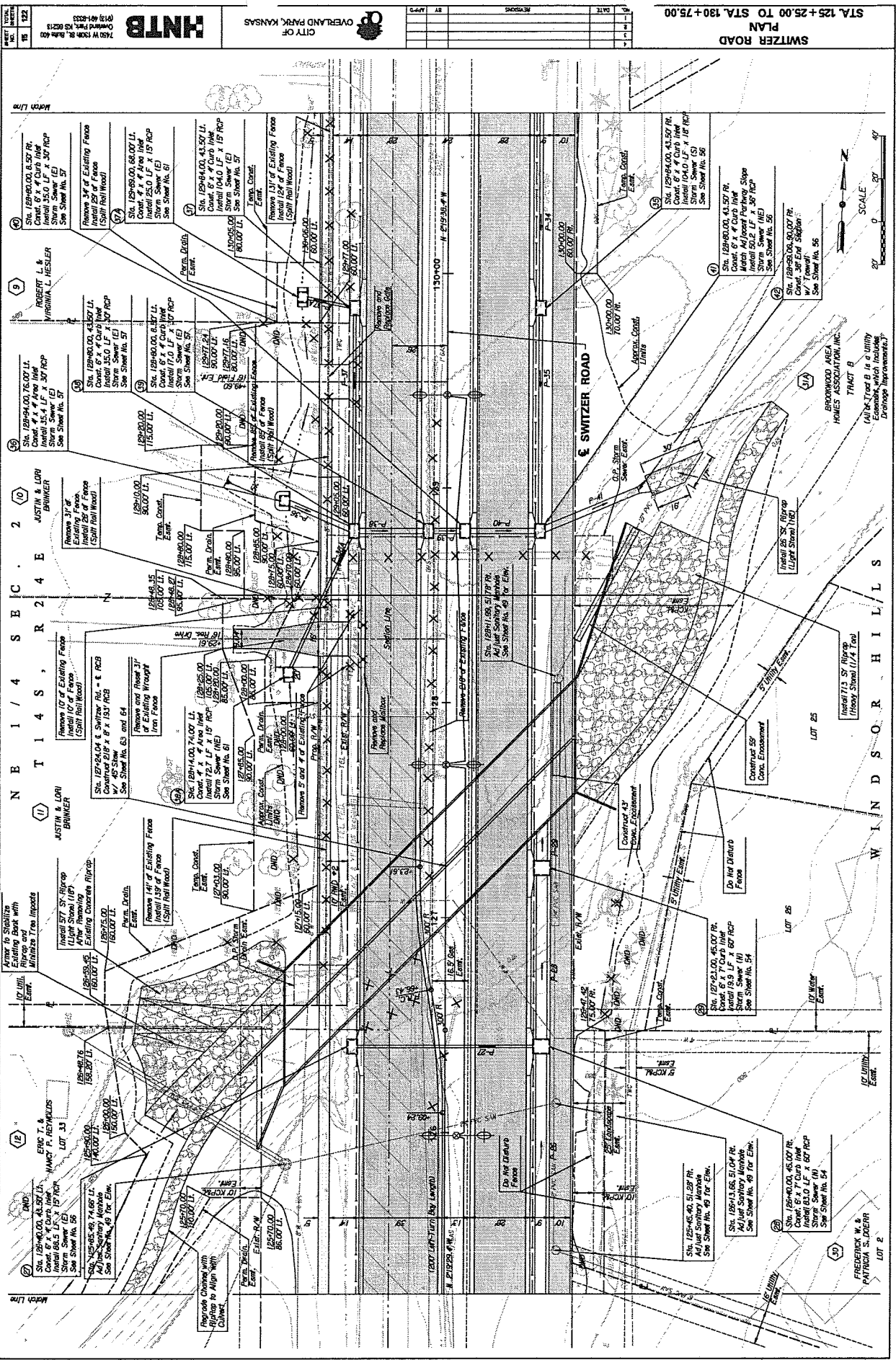










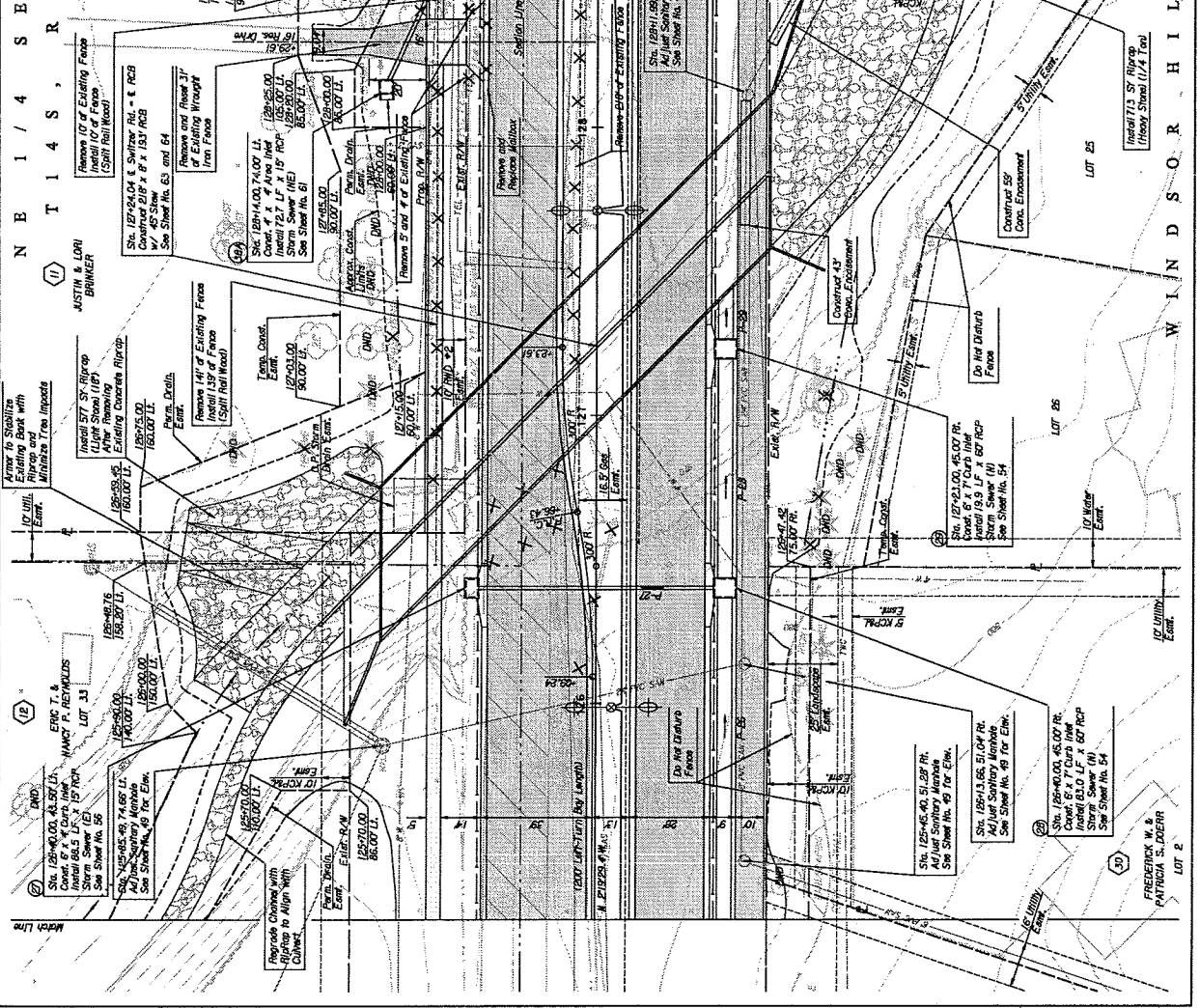
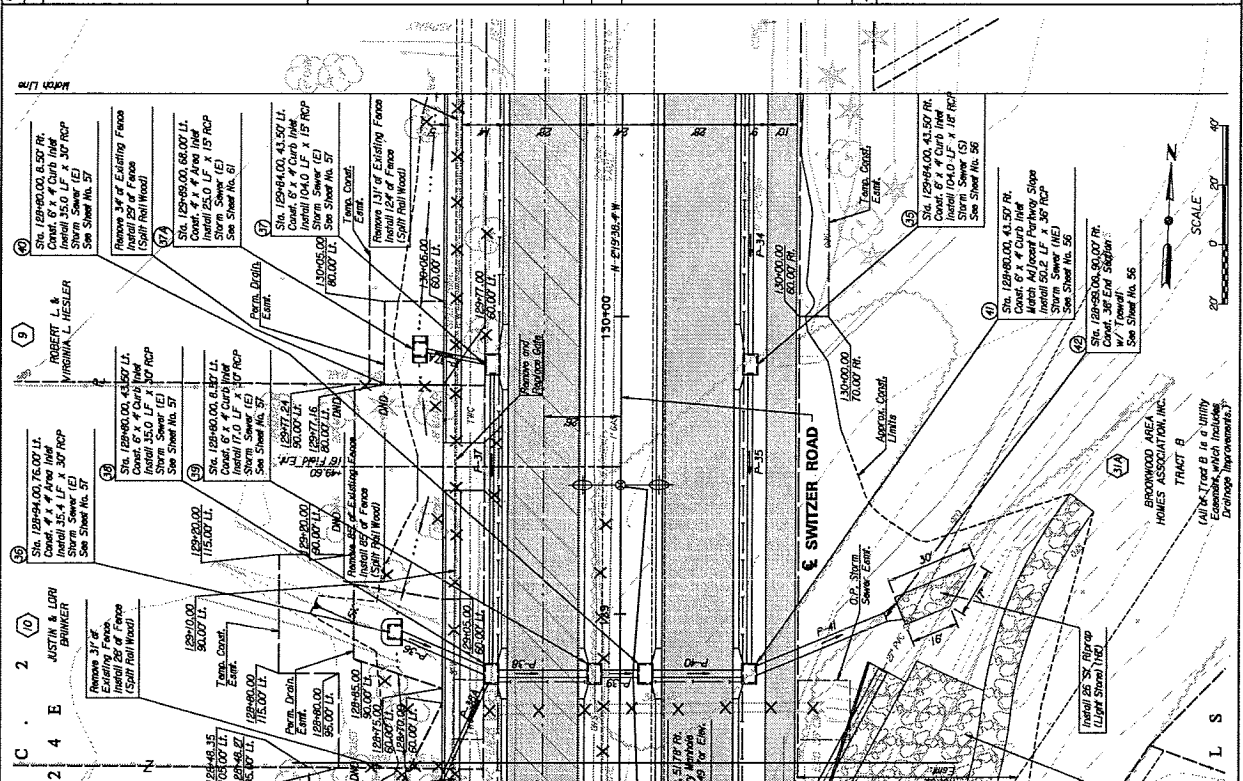


**HNTB**  
 7400 N. 19th St., Suite 400  
 Overland Park, KS 66213  
 (913) 491-8333

**CITY OF OVERLAND PARK, KANSAS**

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**SWITZER ROAD**  
 PLAN  
 STA. 125+25.00 TO STA. 130+75.00



**HNTB**  
 7400 N. 19th St., Suite 400  
 Overland Park, KS 66213  
 (913) 491-8333

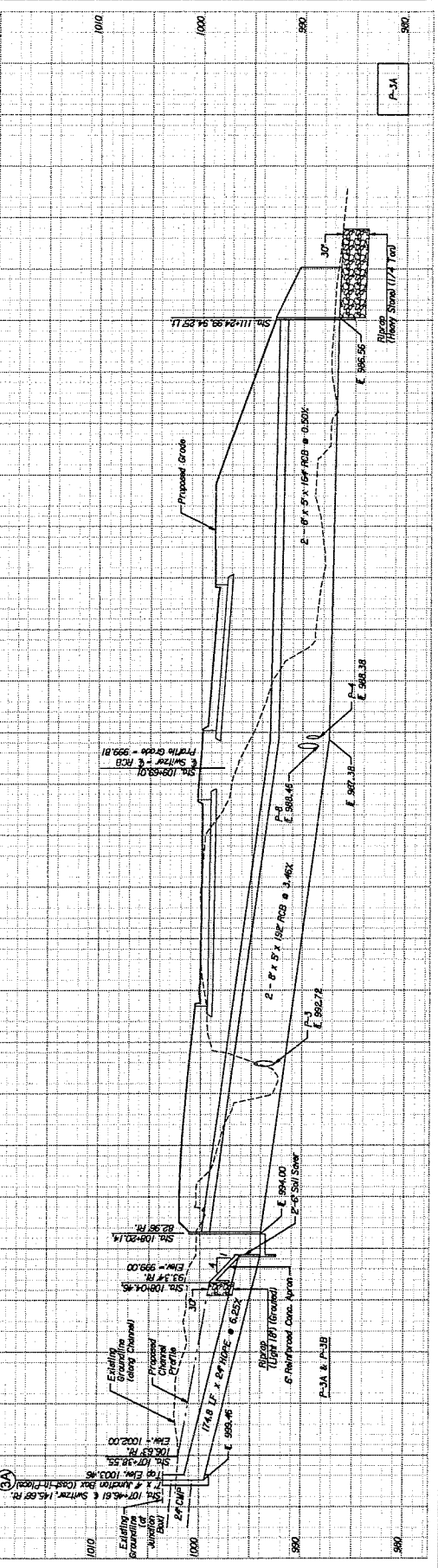
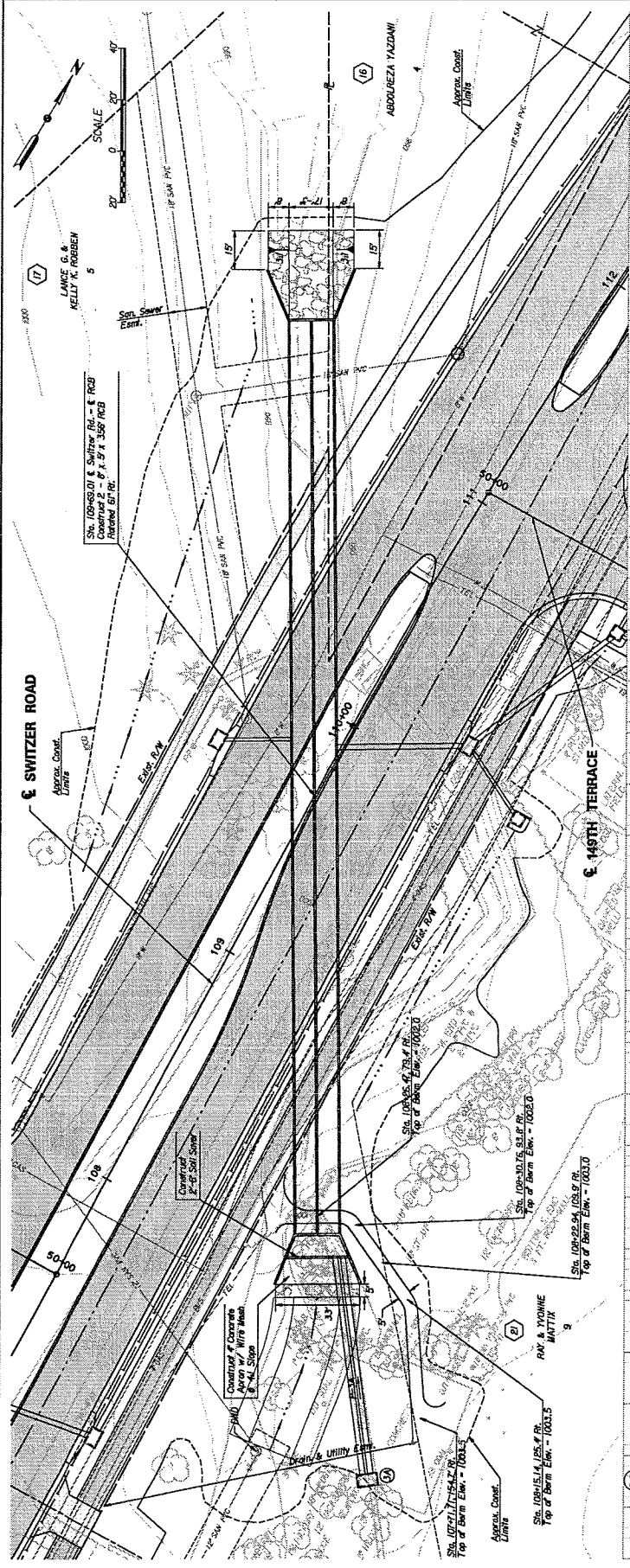
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**SWITZER ROAD**  
 PLAN  
 STA. 125+25.00 TO STA. 130+75.00

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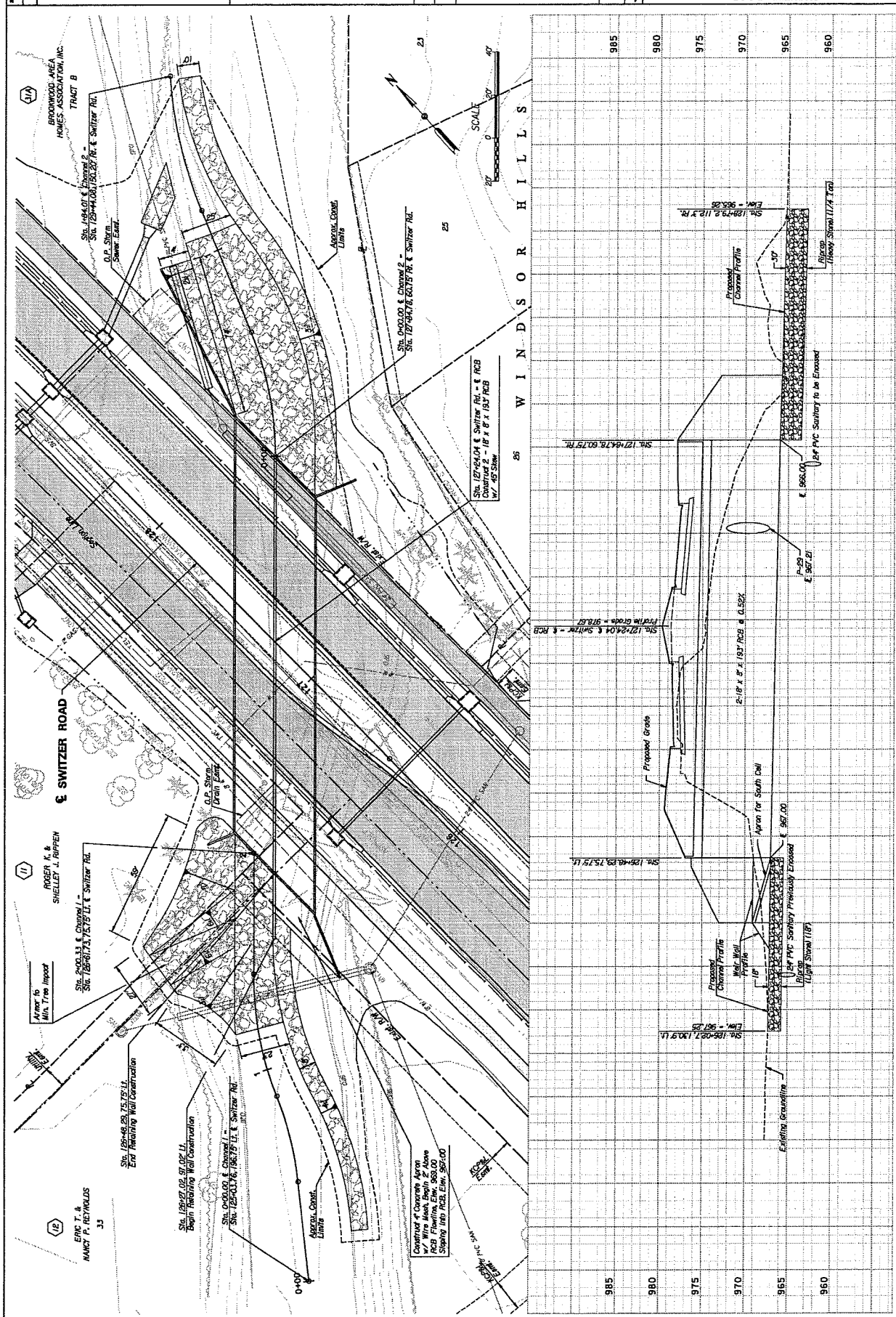
**SWITZER ROAD  
 STA. 109+73.31  
 RCB PLAN & PROFILE**



APPROVED	DATE
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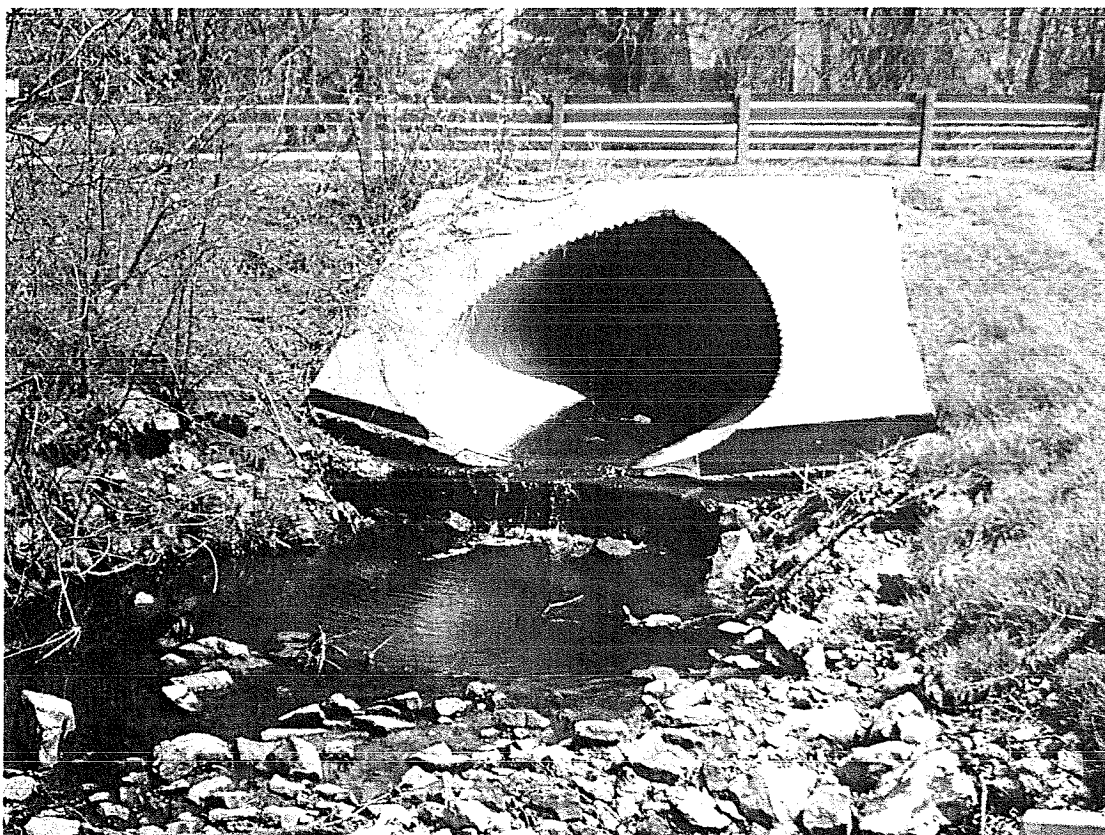
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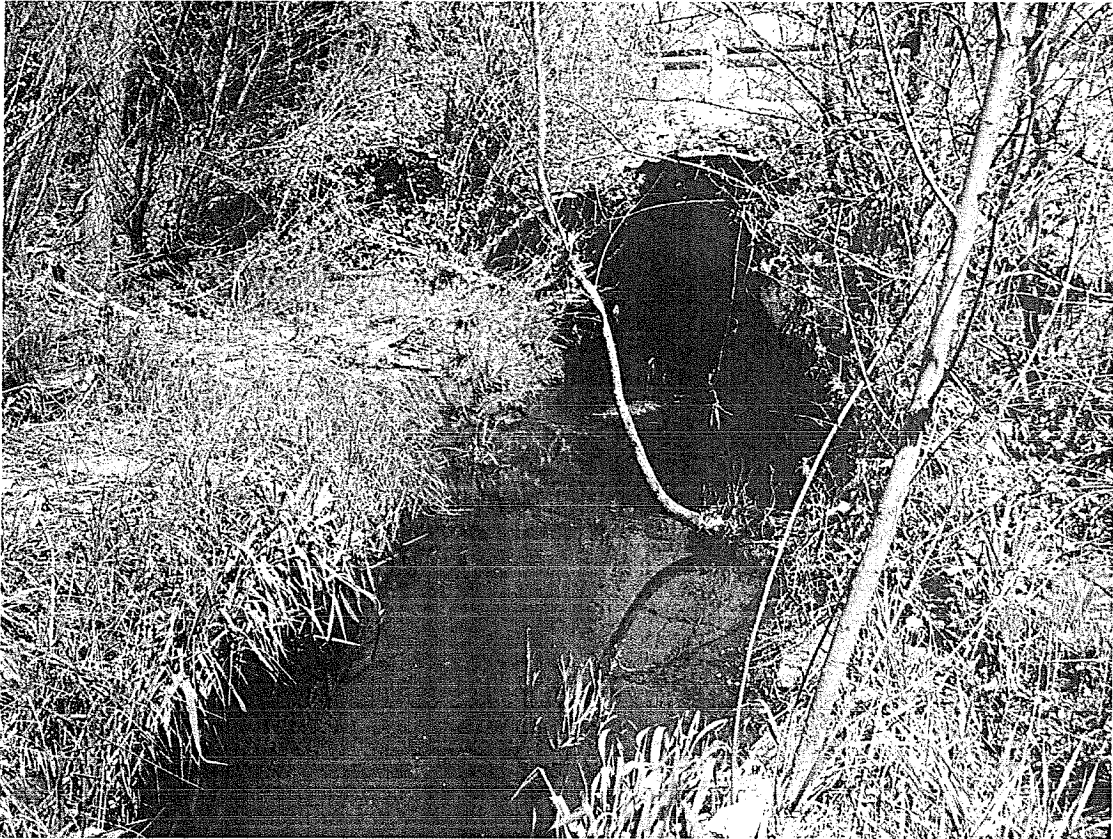




UPSTREAM end of 8.5' x 5.5' CMAP (~Sta. 110+12) looking Southeast



DOWNSTREAM end of 8.5' x 5.5' CMAP (~Sta. 110+12) looking East



UPSTREAM end (South Barrel) of Double 8.5' x 12.5' CMAP (~Sta. 126+65) looking Northeast



UPSTREAM end (North Barrel) of Double 8.5' x 12.5' CMAP (~Sta. 126+65) looking Northeast





DOWNSTREAM end of Double 8.5' x 12.5' CMAP (~Sta. 126+65) looking Southwest