



**US Army Corps  
of Engineers** ®  
Fort Worth District

# Public Notice

Applicant: Texas Department of Transportation

Project No.: SWF-2017-00048

Date: February 16, 2017

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## **Purpose**

The purpose of this public notice is to inform you of a proposal for work in which you might be interested. It is also to solicit your comments and information to better enable us to make a reasonable decision on factors affecting the public interest. We hope you will participate in this process.

## **Regulatory Program**

Since its early history, the U.S. Army Corps of Engineers has played an important role in the development of the nation's water resources. Originally, this involved construction of harbor fortifications and coastal defenses. Later duties included the improvement of waterways to provide avenues of commerce. An important part of our mission today is the protection of the nation's waterways through the administration of the U.S. Army Corps of Engineers Regulatory Program.

## **Section 10**

The U.S. Army Corps of Engineers is directed by Congress under Section 10 of the Rivers and Harbors Act of 1899 (33 USC 403) to regulate *all work or structures in or affecting the course, condition or capacity of navigable waters of the United States*. The intent of this law is to protect the navigable capacity of waters important to interstate commerce.

## **Section 404**

The U.S. Army Corps of Engineers is directed by Congress under Section 404 of the Clean Water Act (33 USC 1344) to regulate the *discharge of dredged and fill material into all waters of the United States, including wetlands*. The intent of the law is to protect the nation's waters from the indiscriminate discharge of material capable of causing pollution and to restore and maintain their chemical, physical and biological integrity.

## **Contact**

Name: Mr. Eric Dephouse, Project Manager

Phone Number: 817-886-1820

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**JOINT PUBLIC NOTICE**

**U.S. ARMY CORPS OF ENGINEERS, FORT WORTH DISTRICT**

**AND**

**TEXAS COMMISSION ON ENVIRONMENTAL QUALITY**

**SUBJECT:** Application for a Department of the Army Permit under Section 404 of the Clean Water Act (CWA) and for water quality certification under Section 401 of the CWA to discharge dredged and fill material into waters of the United States associated with U.S. 69 widening activities located in Angelina County, Texas.

**APPLICANT:** Texas Department of Transportation  
Lufkin District  
c/o Cheryl P. Flood, P.E.  
1805 N. Timberland Drive  
Lufkin, Texas 75901

**APPLICATION NUMBER:** SWF-2017-00048

**DATE ISSUED:** February 16, 2017

**LOCATION:** The proposed U.S. 69 widening project would be located within an 11.55-mile right-of-way corridor in Angelina County, Texas. The proposed project would be located between UTM coordinates 350659.50 East and 3459845.80 North (Zone 15 R) and 363849.19 East and 3445559.17 North (Zone 15 R) on the TX-Manning 1:24K USGS quadrangle map in the USGS Hydrologic Unit 12020002.

**OTHER AGENCY AUTHORIZATIONS:** State Water Quality Certification

**PROJECT DESCRIPTION:** The applicant proposes to discharge approximately 6,665.42 cubic yards of dredged and fill material into approximately 2.45 acres of waters of the United States in conjunction with the widening of U.S. 69. Approximately 1.66 acre of permanent impacts would consist of 0.003 acre of shrub-scrub wetland impacts, 0.03 acre of forested wetland impacts, 356 linear feet (0.14 acre) of intermittent stream impacts, 3,557 linear feet (0.57 acre) or ephemeral stream impacts, and 0.92 acre impacts to open water impoundment. Approximately 0.79 acre of temporary impacts would consist of 0.03 acre of wetland impacts, 642 linear feet (0.27 acre) of intermittent stream impacts, and 2,846 linear feet (0.49 acre) of ephemeral stream impacts. The proposed impacts would occur over 11.55 miles and be located at 31 discrete crossings.

**ALTERNATIVE SITES AND ALTERNATIVE LAYOUTS:** Alternatives were limited to widening US 69 within the existing corridor early in the planning phase to minimize impacts to the Angelina National Forest and private landowners. US 69 traverses three compartments of the Angelina National Forest on easements acquired from the United States Forest Service (USFS). Three alternatives were examined, including the no-build alternative.

Alternative 1: Widen To East Of Existing Alignment (Applicant's Preferred Alternative). This alternative would widen US 69 primarily to the east of the existing alignment and incorporate much of the abandoned Southern Pacific Railroad (SPRR) corridor right-of-way (ROW) that is adjacent to the project limits. The proposed action would widen the existing two-lane (12-foot travel lanes with 10-foot shoulders) undivided asphalt roadway to a four-lane divided rural roadway consisting of four 12-foot travel lanes, 10-foot outside paved shoulders and 4-foot inside paved shoulders. A grassy median varying from 40 feet to 76 feet wide would divide the facility. An overpass with entrance and exit ramps would be constructed at the intersection with State Highway (SH) 63. The existing ROW width varies from 100 feet to 300 feet, including the SPRR ROW. The proposed ROW width varies from 100 feet to 1000 feet. Additional easements from the U.S. Forest Service (USFS) through the Angelina National Forest would be needed.

Alternative 2: Widen To West Of Existing Alignment. Alternative 2 would widen US 69 primarily to the west of the existing alignment. This alternative would not utilize the abandoned SPRR corridor. The proposed action would widen the existing two-lane (12-foot travel lanes with 10-foot shoulders) undivided asphalt roadway to a four-lane divided rural roadway consisting of four 12-foot travel lanes, 10-foot outside paved shoulders and 4-foot inside paved shoulders. A grassy median varying from 40 feet to 76 feet wide would divide the facility. An overpass with entrance and exit ramps would be constructed at the intersection with State Highway (SH) 63. The existing right-of-way (ROW) width is 100 to 300 feet, including the SPRR ROW. The proposed ROW width varies from 100 feet to 180 feet, which would not include the SPRR ROW. Alternative 2 would require greater additional easements from the USFS through the Angelina National Forest. Alternative 2 would not be consistent with the above-mentioned USFS Management Area 10b Special Use Permit Sites Standards and Guidelines.

Alternative 3: No-Action Alternative. This alternative would not involve discharges of dredged and fill material into waters of the U.S. U.S. 69 would remain a two-lane (12-foot travel lanes with 10-foot shoulders) undivided asphalt roadway. The applicant determined that alternative 3 would not meet the stated purpose of the proposed project, which includes reducing traffic cross-overs into opposing traffic for turns, reducing unrestricted left turns which can result in rear-end accidents, reducing congestion due to competing uses (ie. local vs. recreational vs. commercial traffic), reducing hazards associated with slow moving traffic, and reducing congestion during hurricane evacuations since U.S. 69 is designated an official hurricane evacuation route for the Beaumont/Port Arthur region.

**COMPENSATORY MITIGATION:** The applicant has proposed a conceptual compensatory mitigation plan which would include the purchase of credits from the Anderson Tract Mitigation Bank to offset impacts associated with the open water impoundment. In addition, the purchase of stream credits are proposed from the Graham Creek Mitigation Bank and Scoober Creek Mitigation Bank consistent with the Fort Worth District Stream Mitigation Method.

**PUBLIC INTEREST REVIEW FACTORS:** This application will be reviewed in accordance with 33 CFR 320-332, the Regulatory Program of the U. S. Army Corps of Engineers (USACE), and other pertinent laws, regulations, and executive orders. Our evaluation will also follow the guidelines published by the U. S. Environmental Protection Agency pursuant to Section 404(b)(1) of the CWA. The decision whether to issue a permit will be based on an evaluation of the probable impact, including cumulative impact, of the proposed activity on the public interest. That decision will reflect the national concerns for both protection and utilization of important resources. The benefits 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 its cumulative effects. Among the factors addressed are conservation, economics, aesthetics, general environmental concerns, wetlands, historic properties, fish and wildlife values, flood hazards, floodplain values, land use, navigation, shore erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food and fiber production, mineral needs, considerations of property ownership, and, in general, the needs and welfare of the people.

The USACE 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 USACE in determining whether to issue, issue with modifications, or conditions, 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.

**STATE WATER QUALITY CERTIFICATION:** This project would result in a direct impact of greater than three acres of waters of the state or 1,500 linear feet of streams (or a combination of the two is above the threshold), and as such would not fulfill Tier I criteria for the project. Therefore, Texas Commission on Environmental Quality (TCEQ) certification is required. Concurrent with USACE processing of this Department of the Army application, the TCEQ is reviewing this application under Section 401 of the Clean Water Act, and Title 30, Texas Administrative Code Section 279.1-13 to determine if the work would comply with State water quality standards. By virtue of an agreement between the USACE and the TCEQ, this public notice is also issued for the purpose of advising all known interested persons that there is pending before the TCEQ a decision on water quality certification under such act. **Any comments concerning this application may be submitted to the Texas Commission on Environmental Quality, 401 Coordinator, MSC-150, P.O. Box 13087, Austin, Texas 78711-3087.** The public comment period extends 30 days from the date of publication of this notice. A copy of the public notice with a description of the work is made available for review in the TCEQ's Austin Office. The TCEQ may conduct a public meeting to consider all comments concerning water

quality if requested in writing. A request for a public meeting must contain the following information: the name, mailing address, application number, or other recognizable reference to the application; a brief description of the interest of the requestor, or of persons represented by the requestor; and a brief description of how the application, if granted, would adversely affect such interest.

**THREATENED AND ENDANGERED SPECIES:** The USACE has reviewed the U.S. Fish and Wildlife Service's latest published version of endangered and threatened species to determine if any may occur in the project area. Our initial review indicates that the proposed work would have no effect on federally-listed endangered or threatened species.

**NATIONAL REGISTER OF HISTORIC PLACES:** The USACE has reviewed the project information and has determined that no historic properties will be affected.

**FLOODPLAIN MANAGEMENT:** The USACE is sending a copy of this public notice to the local floodplain administrator. In accordance with 44 CFR part 60 (Flood Plain Management Regulations Criteria for Land Management and Use), the floodplain administrators of participating communities are required to review all proposed development to determine if a floodplain development permit is required and maintain records of such review.

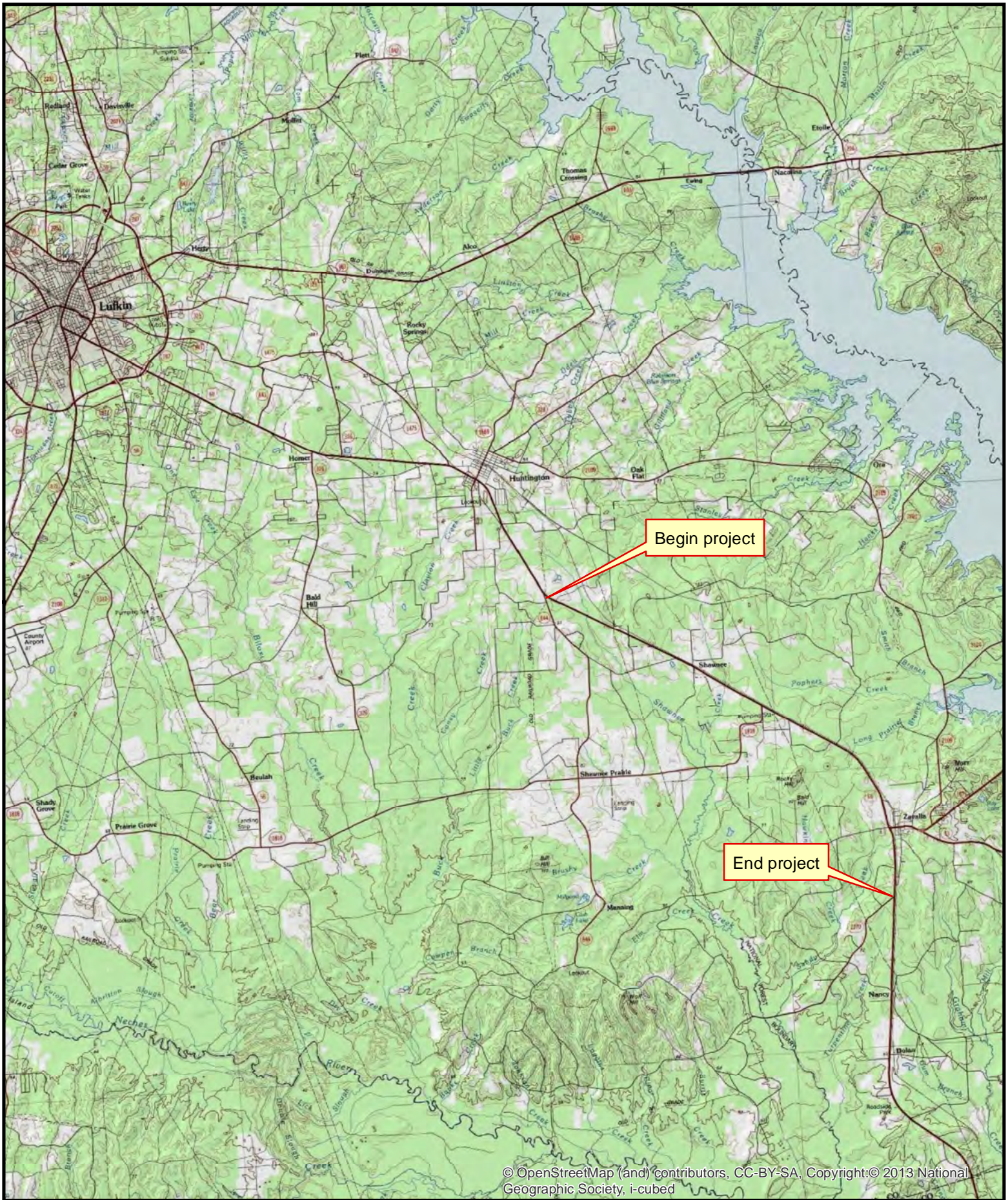
**SOLICITATION OF COMMENTS:** The public notice is being distributed to all known interested persons in order to assist in developing fact upon which a decision by the USACE may be based. For accuracy and completeness of the record, all data in support of or in opposition to the proposed work should be submitted in writing setting forth sufficient detail to furnish a clear understanding of the reasons for support or opposition.

**PUBLIC HEARING:** Prior to the close of the comment period any person may make a written request for a public hearing setting forth the particular reasons for the request. The District Engineer will determine whether the issues raised are substantial and should be considered in his permit decision. If a public hearing is warranted, all known interested persons will be notified of the time, date, and location.

**CLOSE OF COMMENT PERIOD:** All comments pertaining to this Public Notice must reach this office on or before March 20, 2017, which is the close of the comment period. Extensions of the comment period may be granted for valid reasons provided a written request is received by the limiting date. If no comments are received by that date, it will be considered that there are no objections. Comments and requests for additional information should be submitted to:

Regulatory Branch, CESWF-DE-R; U. S. Army Corps of Engineers; Post Office Box 17300; Fort Worth, Texas 76102-0300. You may visit the Regulatory Branch in Room 3A37 of the Federal Building at 819 Taylor Street in Fort Worth between 8:00 A.M. and 3:30 P.M., Monday through Friday. Telephone inquiries should be directed to (817) 886-1731. Please note that names and addresses of those who submit comments in response to this public notice may be made publicly available.

DISTRICT ENGINEER  
FORT WORTH DISTRICT  
CORPS OF ENGINEERS



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**US 99 From FM 844 to FM 1270  
Angelina County**

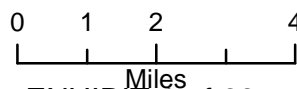


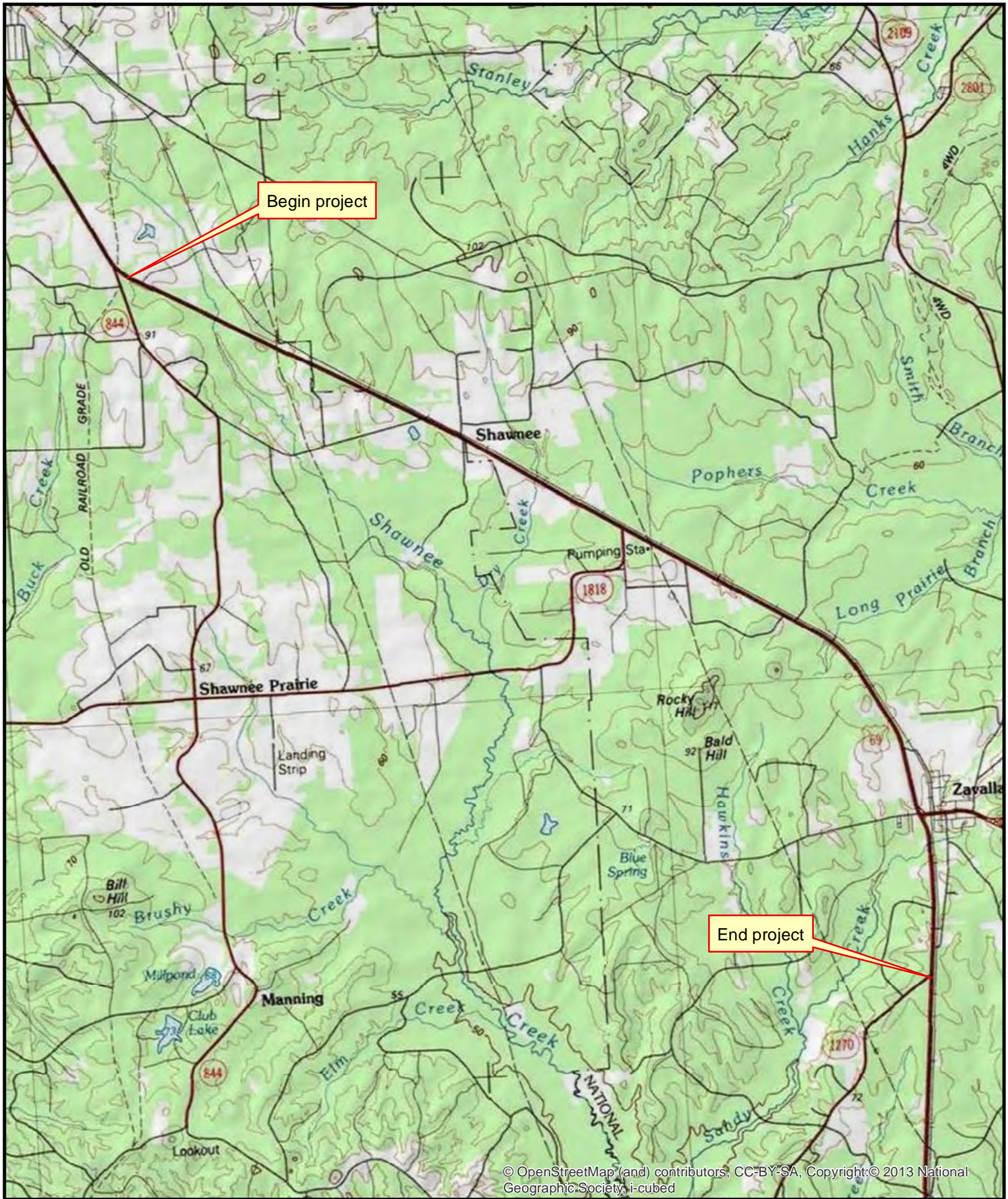
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January 4, 2017  
SWF-2017-00048

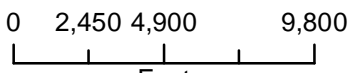


February 16, 2017



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**US 69 From FM 844 to FM 1270  
Angelina County**



January 4, 2017  
SWF-2017-00048

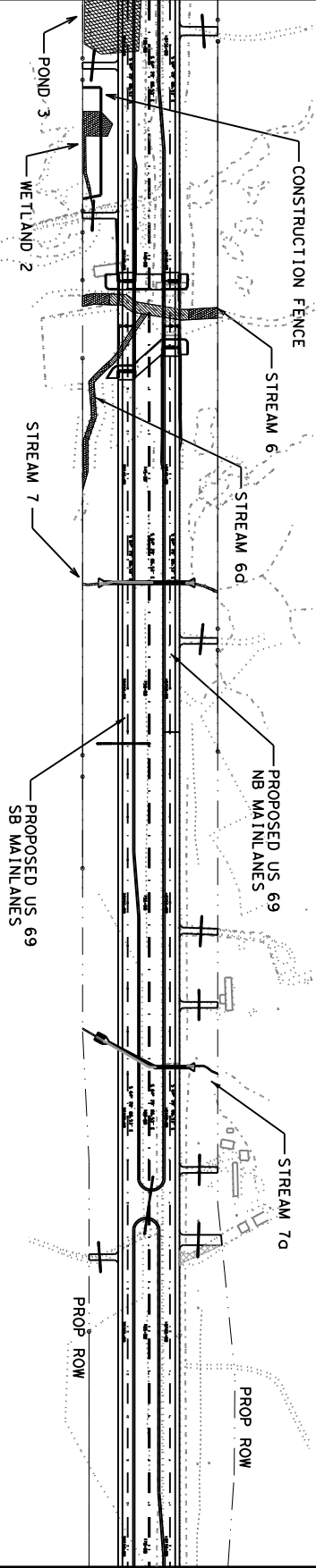
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February 16, 2017



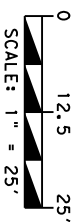
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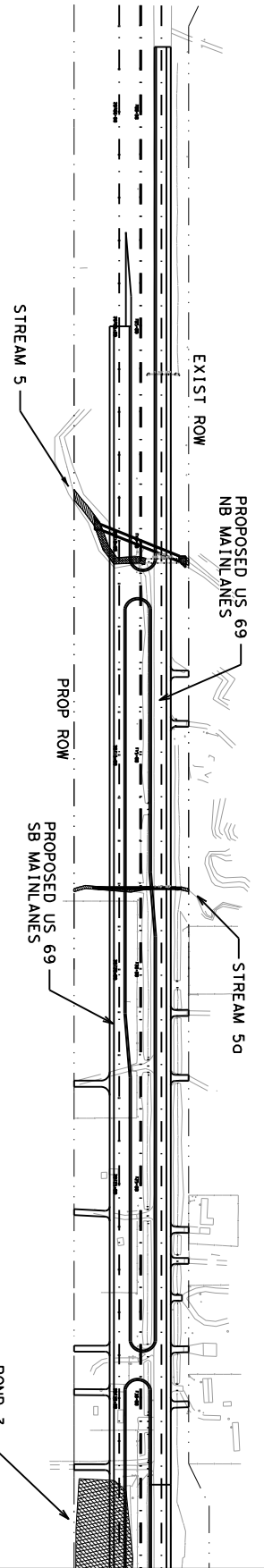
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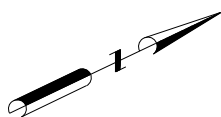


WATERS OF THE U.S.

NOVEMBER 30, 2016



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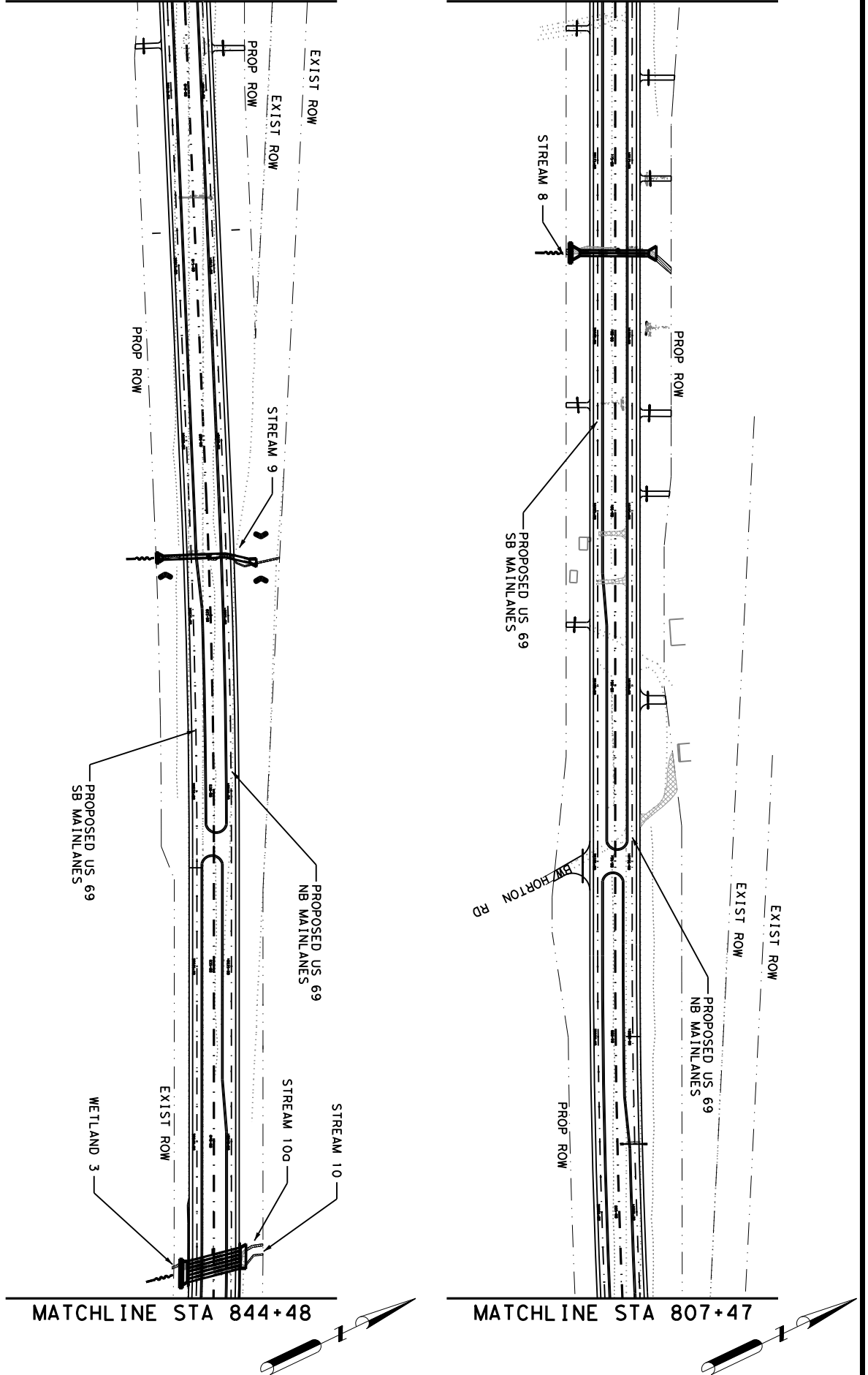


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US 69

SHEET 2 OF 8



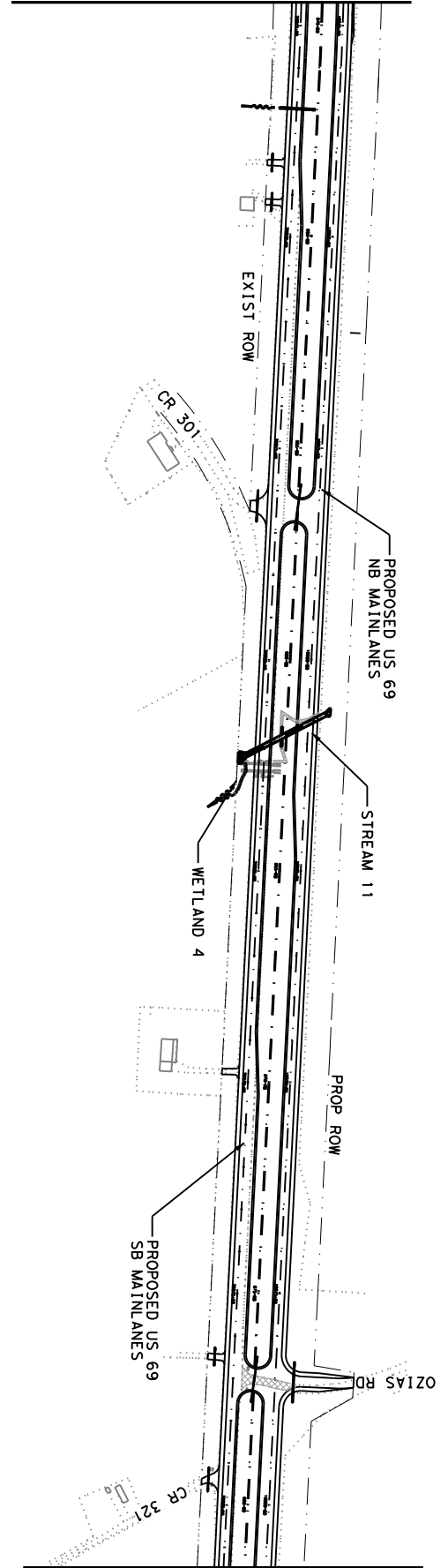
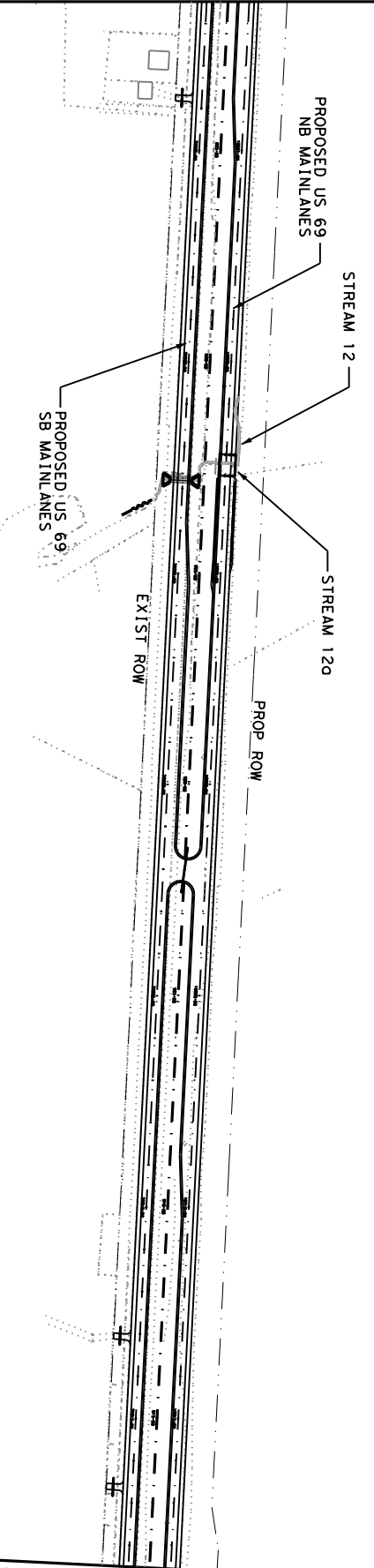
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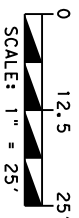
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US 69

SHEET 3 OF 8



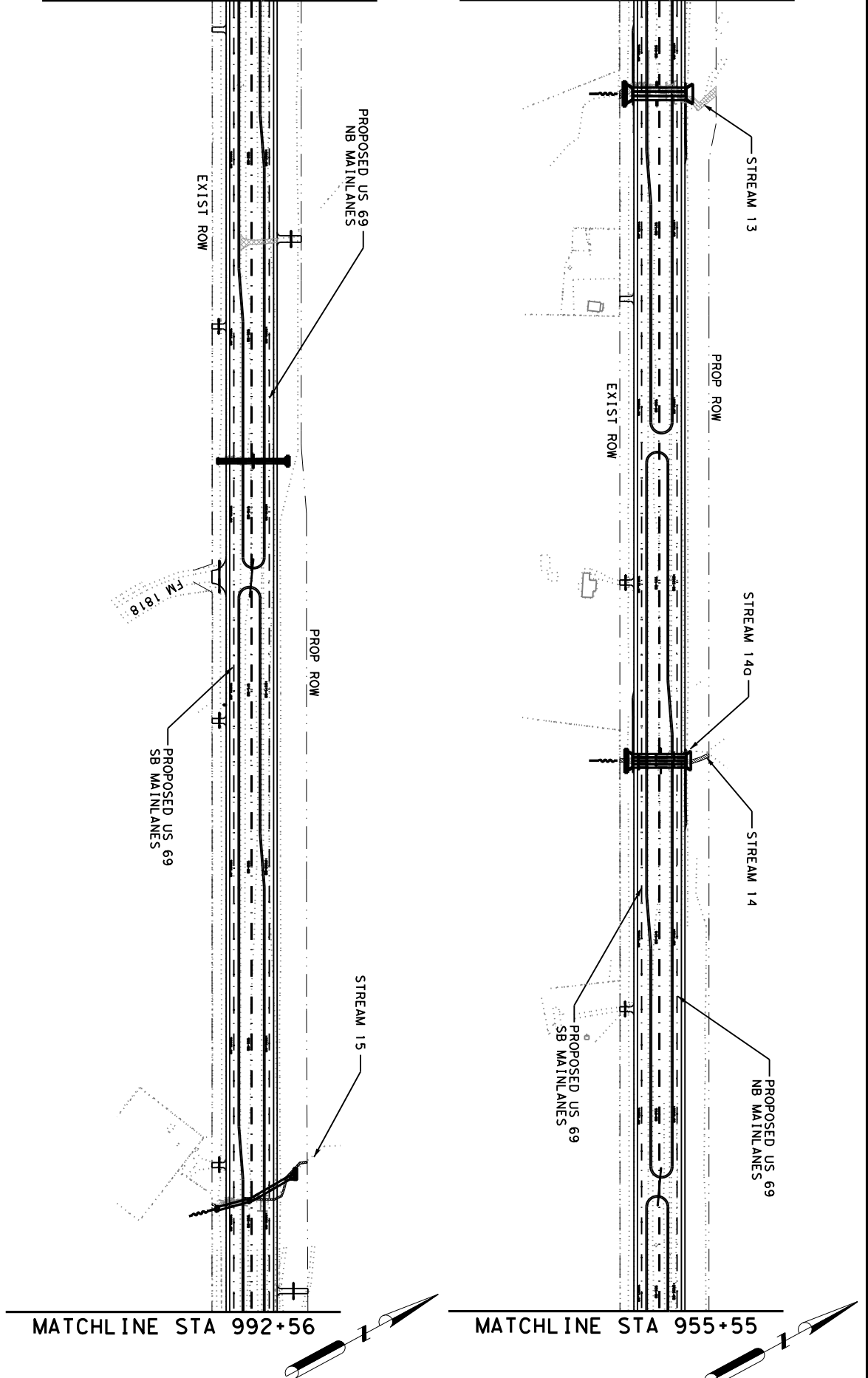
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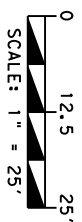


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US 69

SHEET 4 OF 8



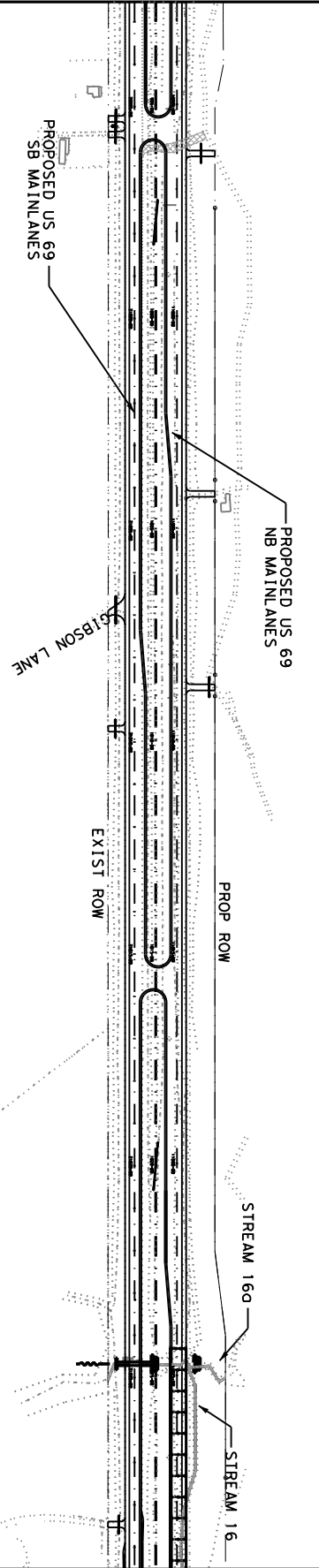
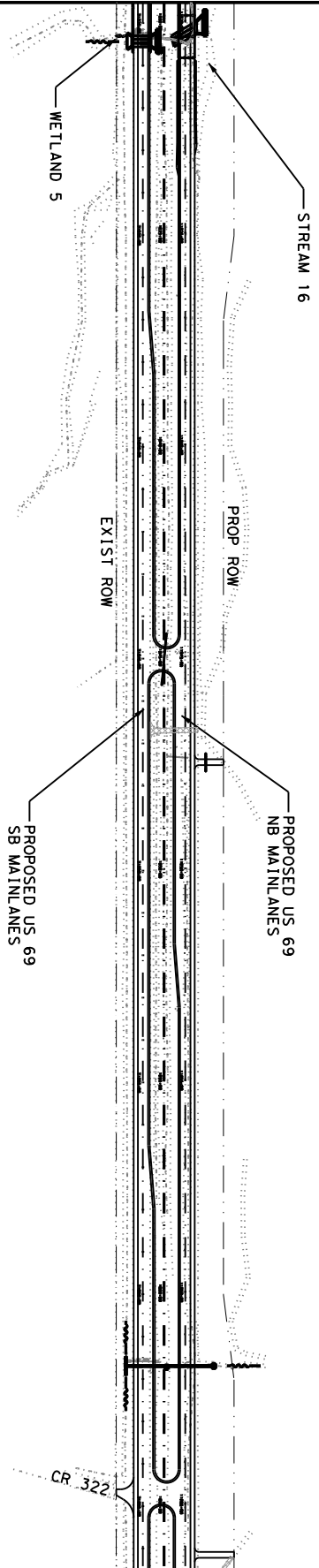
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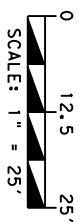


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US 69

SHEET 5 OF 8



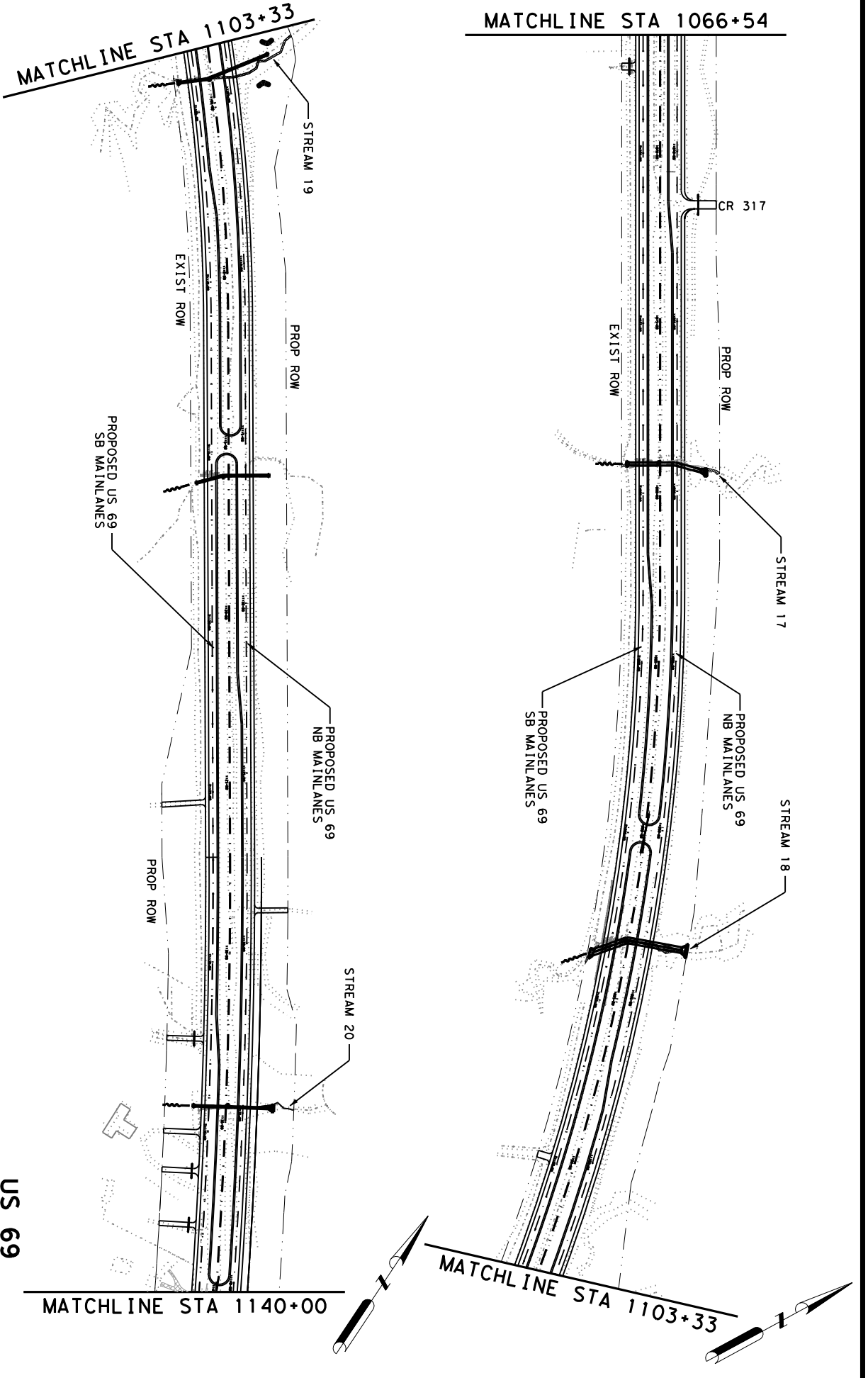
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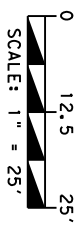
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US 69

SHEET 6 OF 8



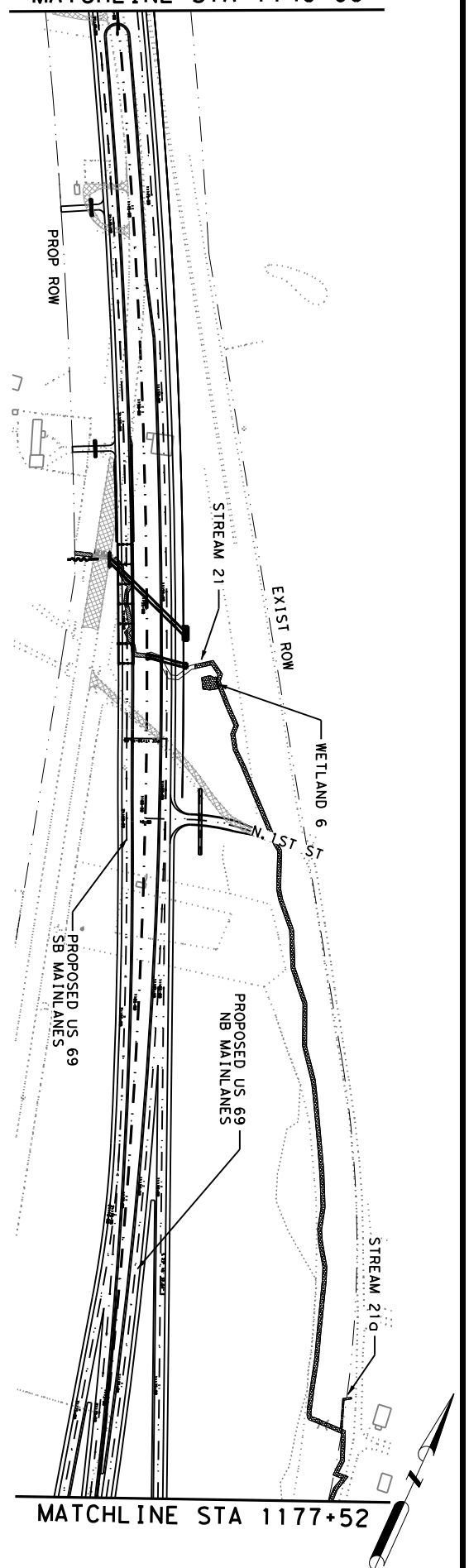
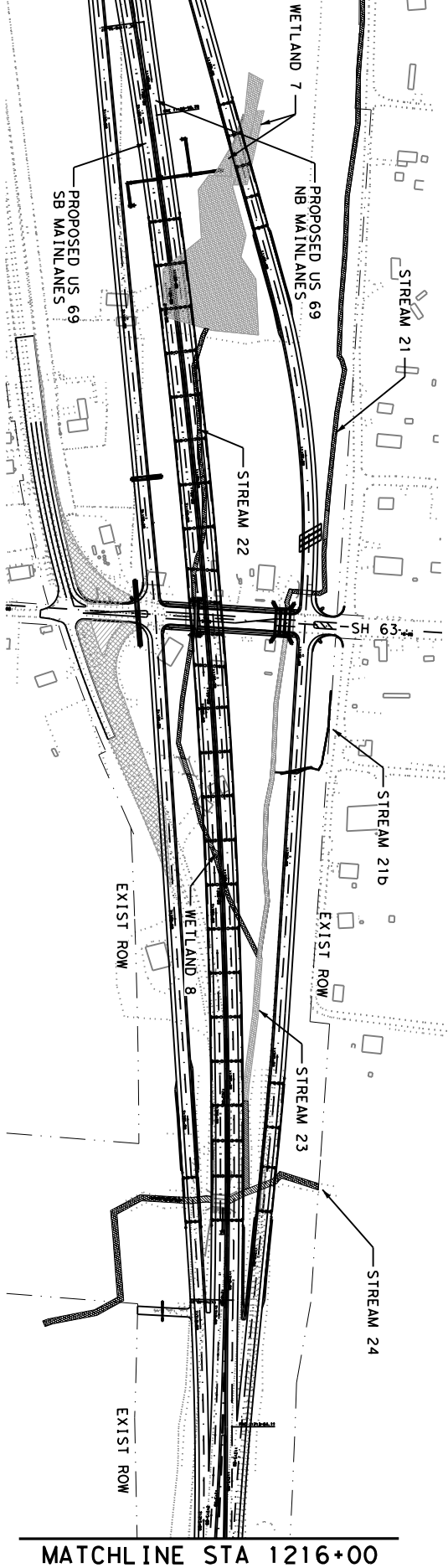
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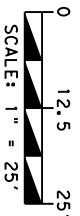
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US 69

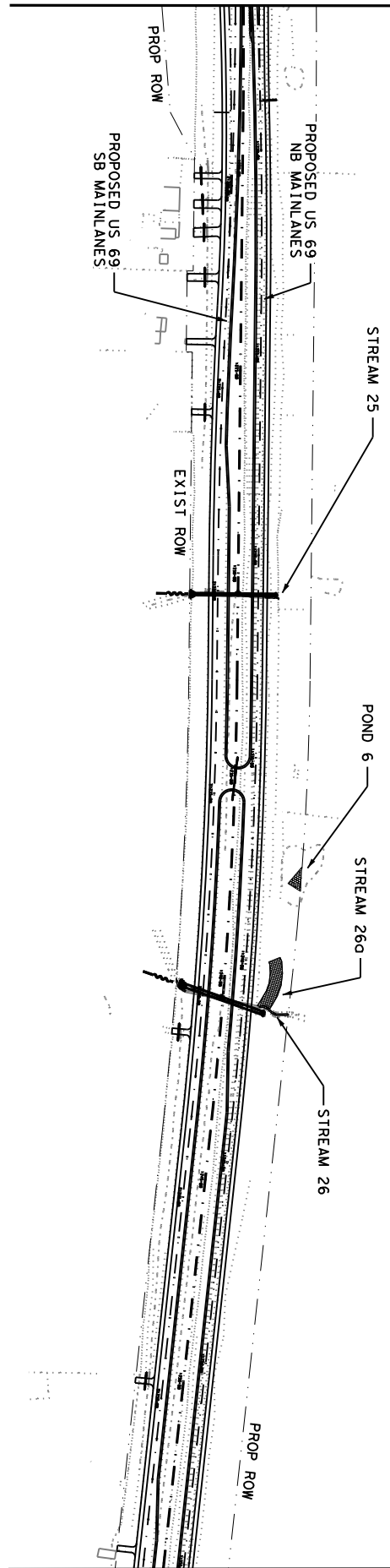
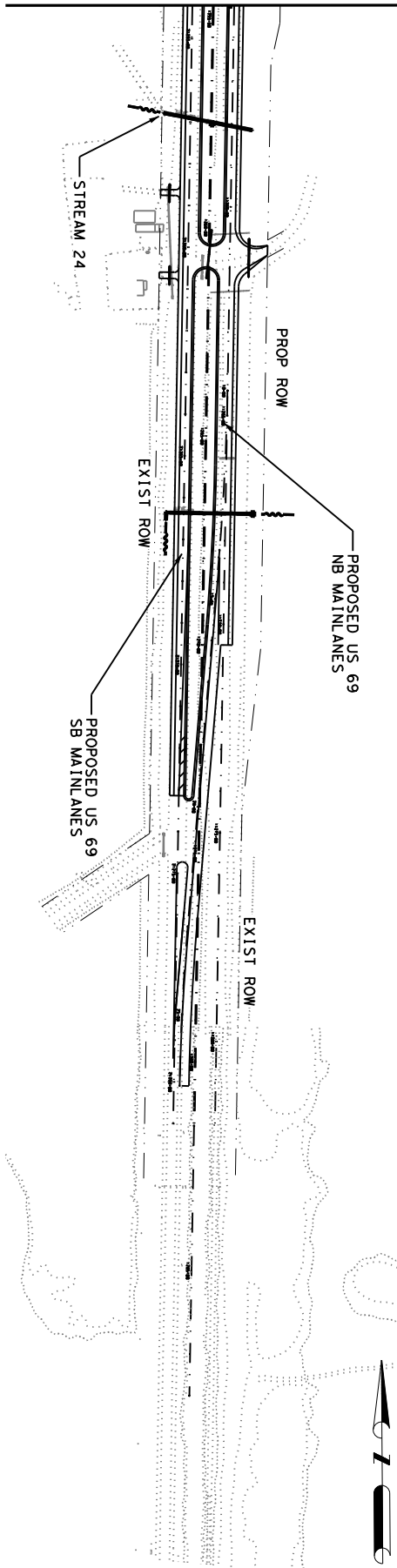
SHEET 7 OF 8



WATERS OF THE U.S.  
 NOVEMBER 30, 2016

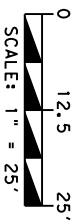
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SHEET 8 OF 8

US 69



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


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STREAM 5:  
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 PERMANENT IMPACTS = 0.065 ACRES  
 TEMPORARY IMPACTS = 0.029 ACRES  
 ESTIMATED FILL 152.66 CY CLEAN DIRT  
 ESTIMATED FILL 34.92 CY CONCRETE  
 ESTIMATED FILL 3.74 CY RIPRAP

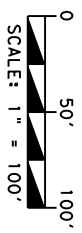
STREAM 50:  
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 PERMANENT IMPACTS = 0.024 ACRES  
 TEMPORARY IMPACTS = 0.01 ACRES  
 ESTIMATED FILL 46.02 CY CLEAN DIRT  
 ESTIMATED FILL 9.60 CY CONCRETE

**LEGEND**

	AVOIDED
	TEMP IMPACT
	PERM IMPACT

US 69

SHEET 1 OF 53

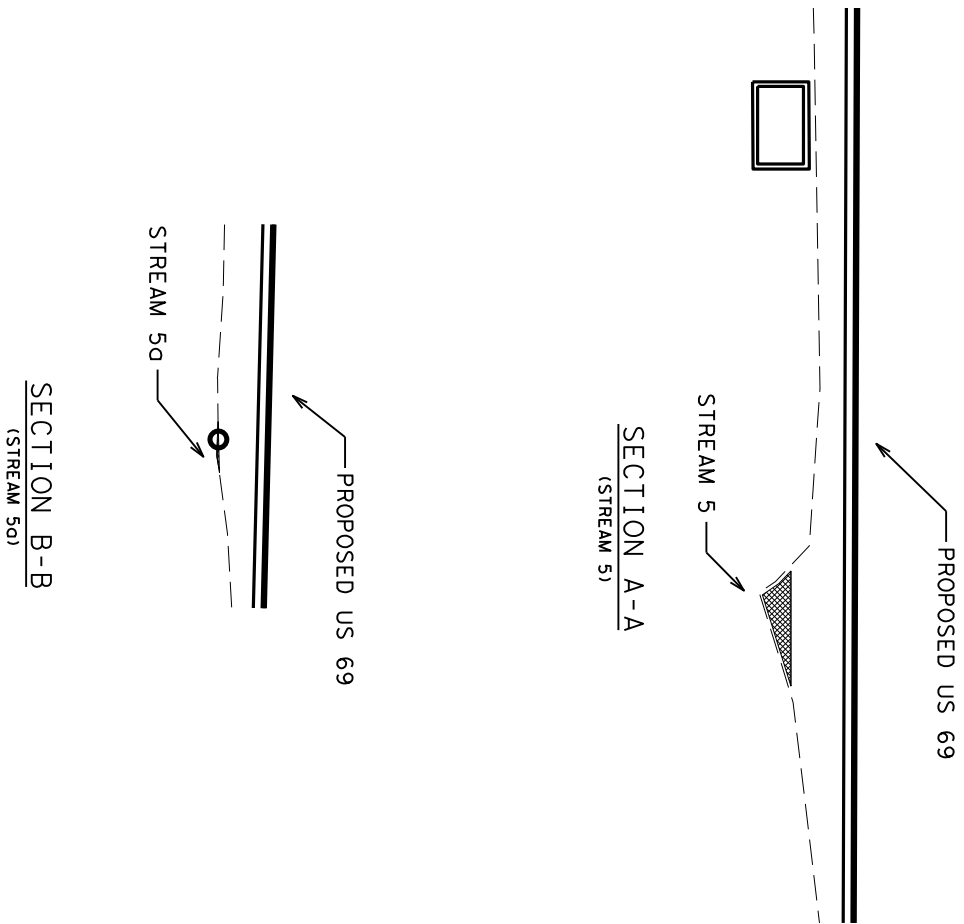


IMPACTS TO WATERS OF THE U.S.

DECEMBER 12, 2016

\$DATE\$ \$TIME\$

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SECTION B-B  
(STREAM 50)

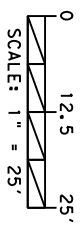
SECTION A-A  
(STREAM 5)

**LEGEND**

	AVOIDED
	TEMP IMPACT
	PERM IMPACT

**US 69**

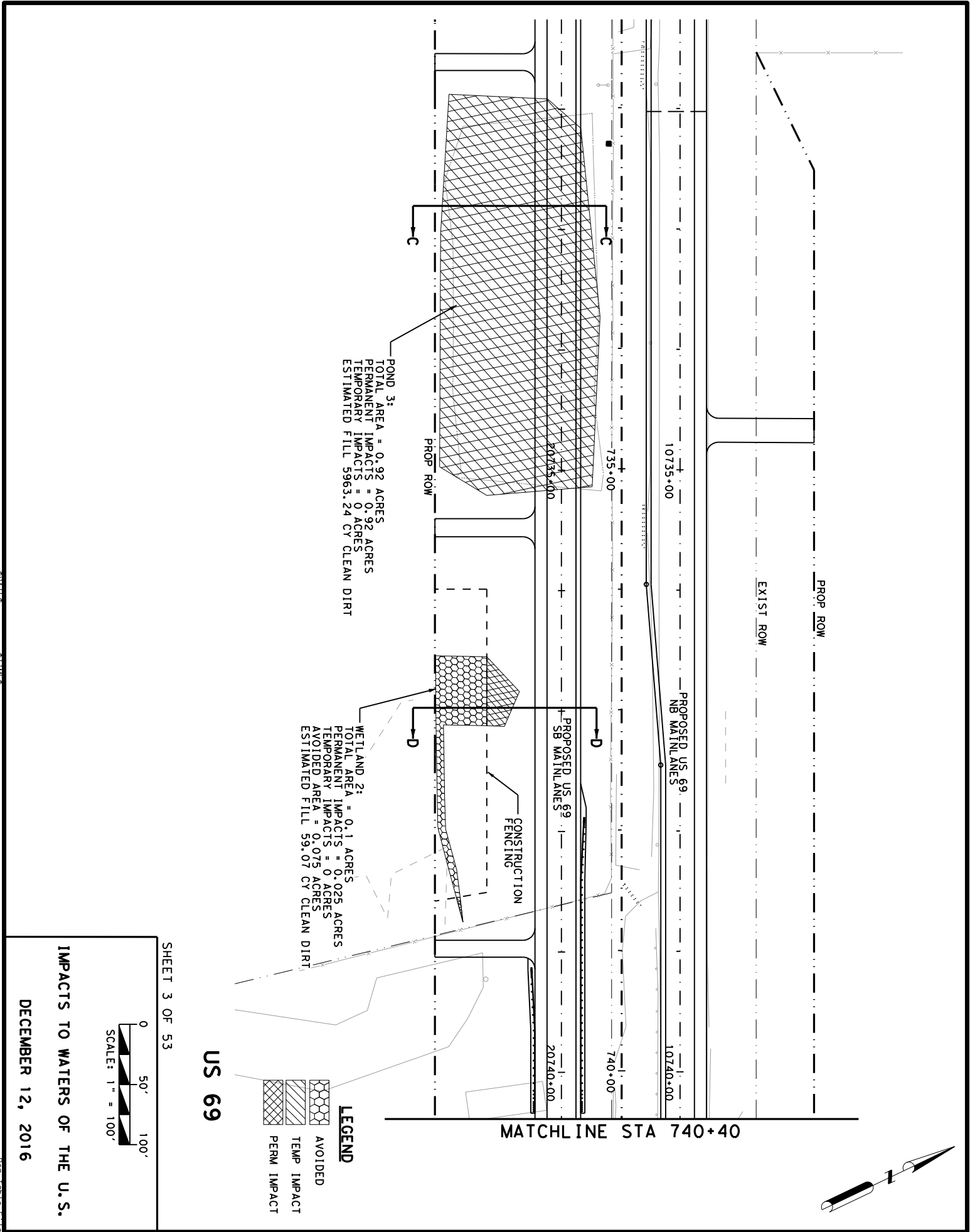
SHEET 2 OF 53



**IMPACTS TO WATERS OF THE U.S.**  
**DECEMBER 12, 2016**

\$DATE\$ \$TIME\$

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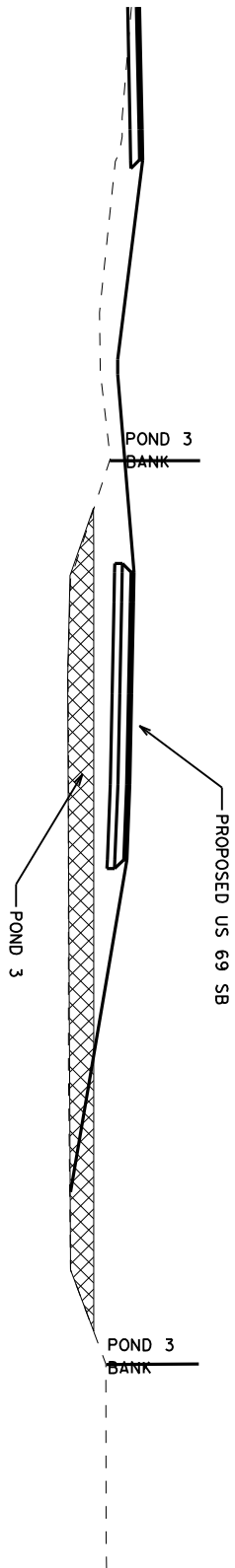


SHEET 3 OF 53




US 69

IMPACTS TO WATERS OF THE U.S.

DECEMBER 12, 2016

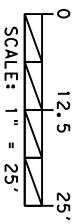


SECTION C-C  
(POND 3)

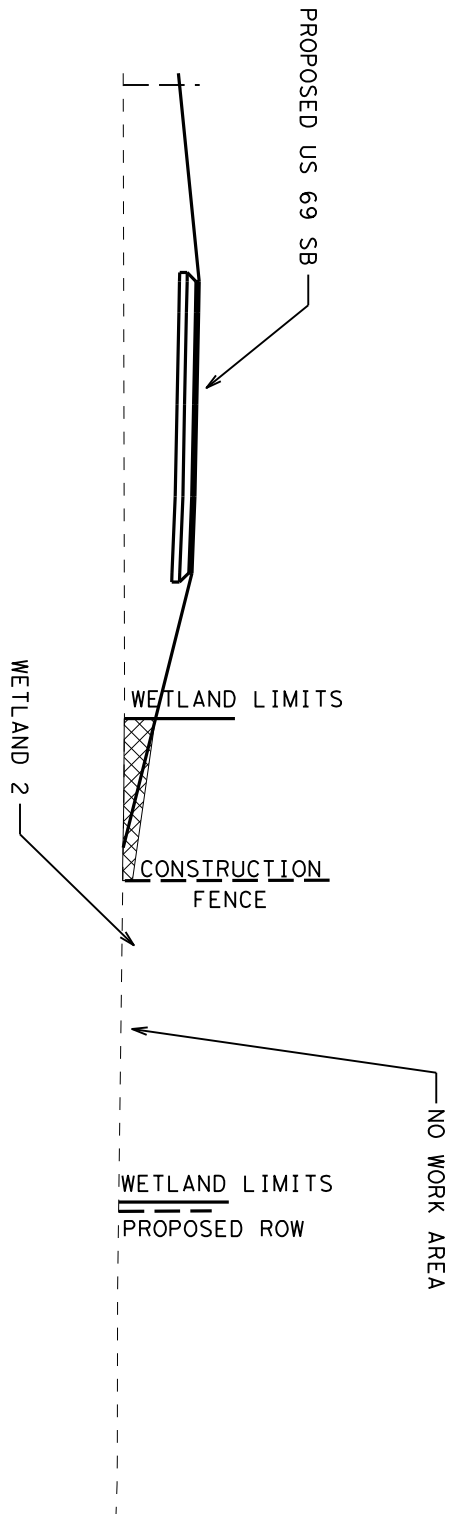
- LEGEND**
-  AVOIDED
  -  TEMP IMPACT
  -  PERM IMPACT

**US 69**

SHEET 4 OF 53






IMPACTS TO WATERS OF THE U.S.  
DECEMBER 12, 2016



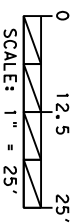
SECTION D-D  
(WETLAND 2)

**LEGEND**

	AVOIDED
	TEMP IMPACT
	PERM IMPACT

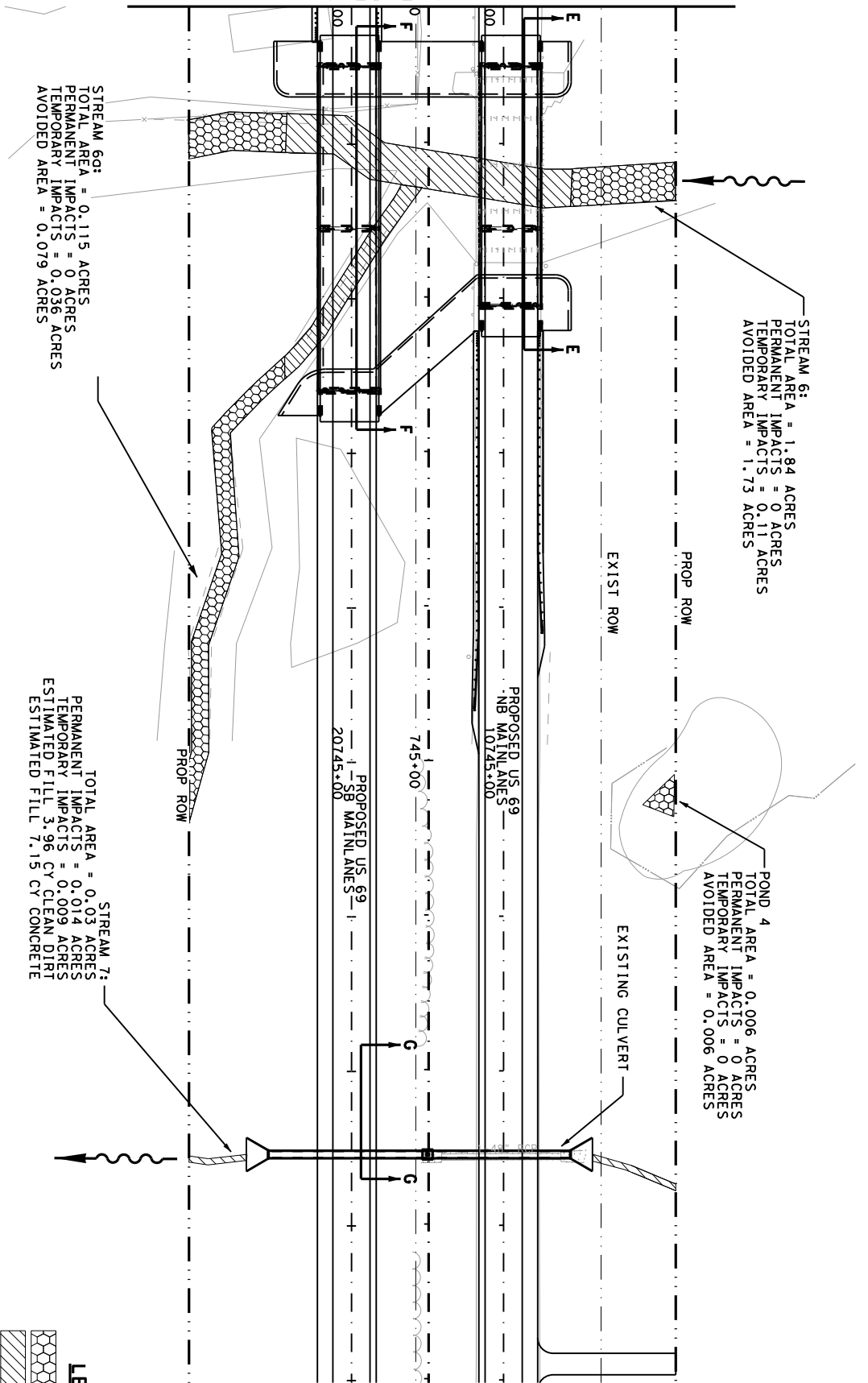
US 69

SHEET 5 OF 53



IMPACTS TO WATERS OF THE U.S.  
DECEMBER 12, 2016

MATCHLINE STA 740+40



STREAM 6a:  
 TOTAL AREA = 1.84 ACRES  
 PERMANENT IMPACTS = 0 ACRES  
 TEMPORARY IMPACTS = 0.11 ACRES  
 AVOIDED AREA = 1.73 ACRES

POND 4  
 TOTAL AREA = 0.006 ACRES  
 PERMANENT IMPACTS = 0 ACRES  
 TEMPORARY IMPACTS = 0 ACRES  
 AVOIDED AREA = 0.006 ACRES

STREAM 6d:  
 TOTAL AREA = 0.115 ACRES  
 PERMANENT IMPACTS = 0 ACRES  
 TEMPORARY IMPACTS = 0.036 ACRES  
 AVOIDED AREA = 0.079 ACRES

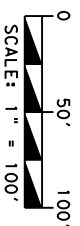
STREAM 7i:  
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 PERMANENT IMPACTS = 0.014 ACRES  
 TEMPORARY IMPACTS = 0.009 ACRES  
 ESTIMATED FILL 3.96 CY CLEAN DIRT  
 ESTIMATED FILL 7.15 CY CONCRETE

**LEGEND**

	AVOIDED
	TEMP IMPACT
	PERM IMPACT

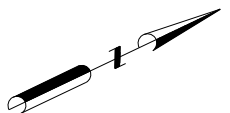
US 69

SHEET 6 OF 53

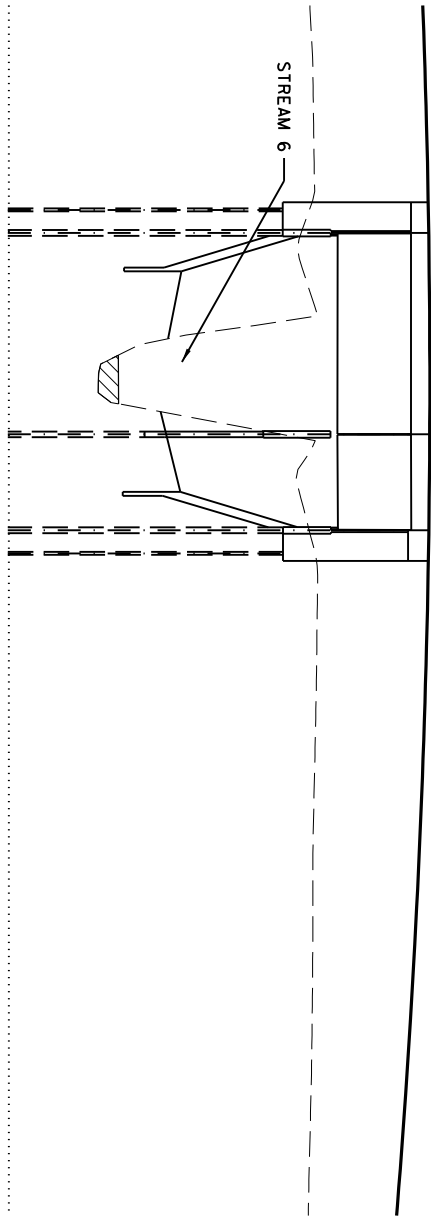


IMPACTS TO WATERS OF THE U.S.

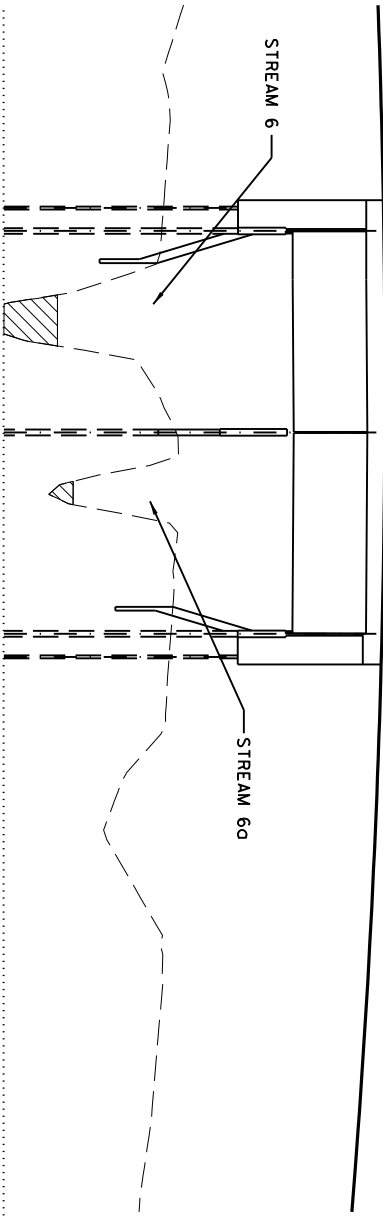
DECEMBER 12, 2016






**SECTION E-E**  
(STREAM 6)



**SECTION F-F**  
(STREAM 6, 60)



- LEGEND**
-  AVOIDED
  -  TEMP IMPACT
  -  PERM IMPACT

**US 69**

SHEET 7 OF 53

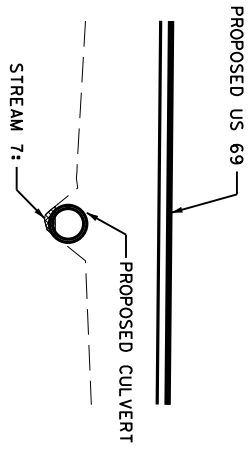


IMPACTS TO WATERS OF THE U.S.




DECEMBER 12, 2016

\$DATE\$ \$TIME\$

Pen Table File

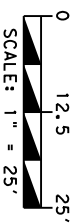


**SECTION G-G**  
(STREAM 7)

- LEGEND**
-  AVOIDED
  -  TEMP IMPACT
  -  PERM IMPACT

**US 69**

SHEET 8 OF 53



IMPACTS TO WATERS OF THE U.S.

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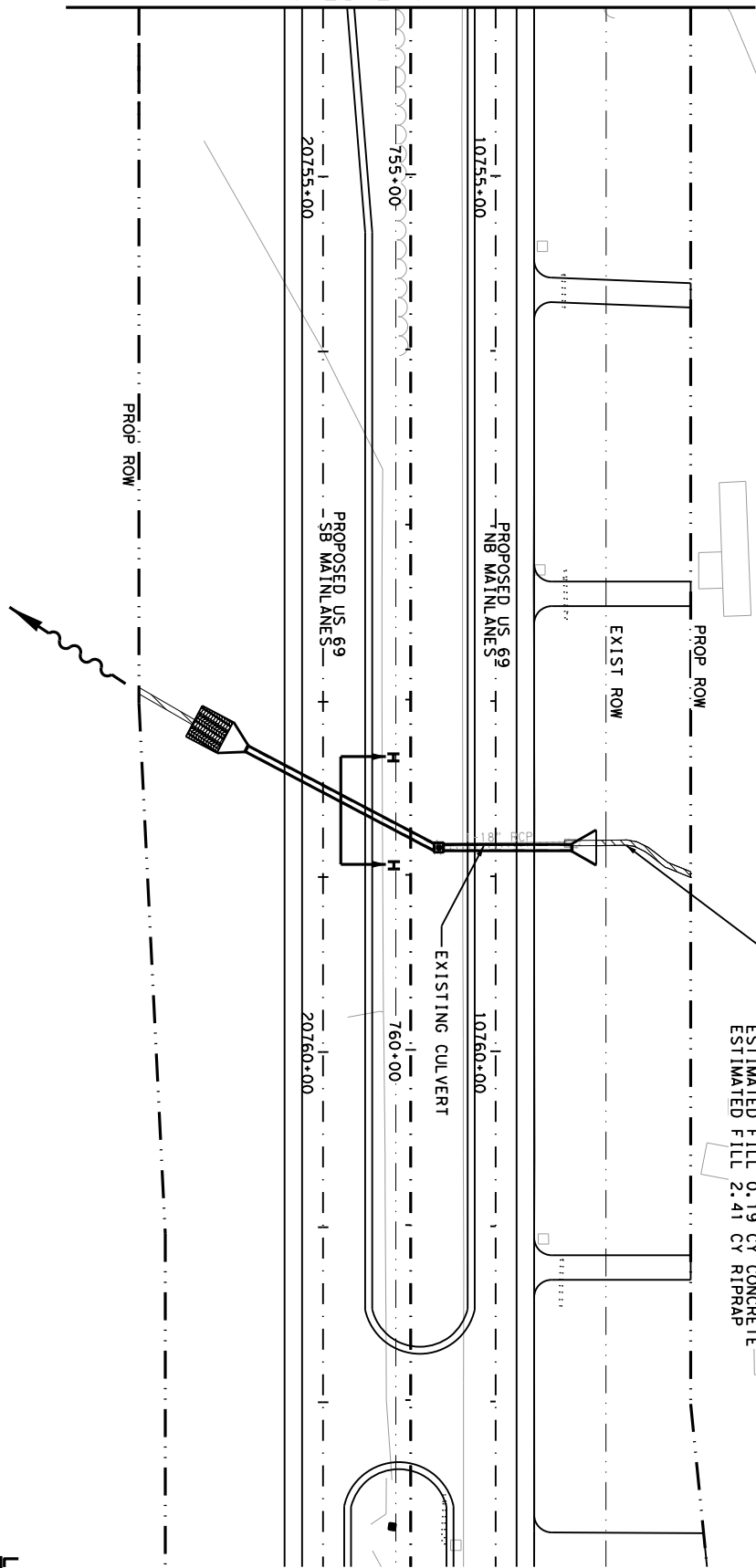
\$DATE\$

\$TIME\$




Pen Table File



MATCHLINE STA 740+40

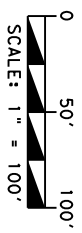


STREAM 7d:  
 TOTAL AREA = 0.024 ACRES  
 PERMANENT IMPACTS = 0.012 ACRES  
 TEMPORARY IMPACTS = 0.007 ACRES  
 ESTIMATED FILL 0.17 CY CLEAN DIRT  
 ESTIMATED FILL 0.19 CY CONCRETE  
 ESTIMATED FILL 2.41 CY RIPRAP

- LEGEND**
-  AVOIDED
  -  TEMP IMPACT
  -  PERM IMPACT

US 69

SHEET 9 OF 53

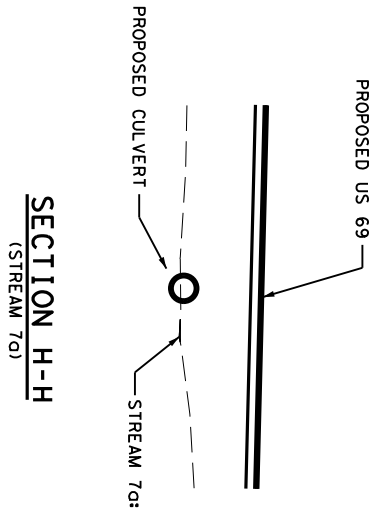


IMPACTS TO WATERS OF THE U.S.




DECEMBER 12, 2016

SOFTEN\$

Pen Table File

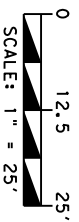


**SECTION H-H**  
(STREAM 70)

- LEGEND**
-  AVOIDED
  -  TEMP IMPACT
  -  PERM IMPACT

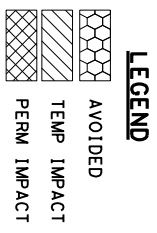
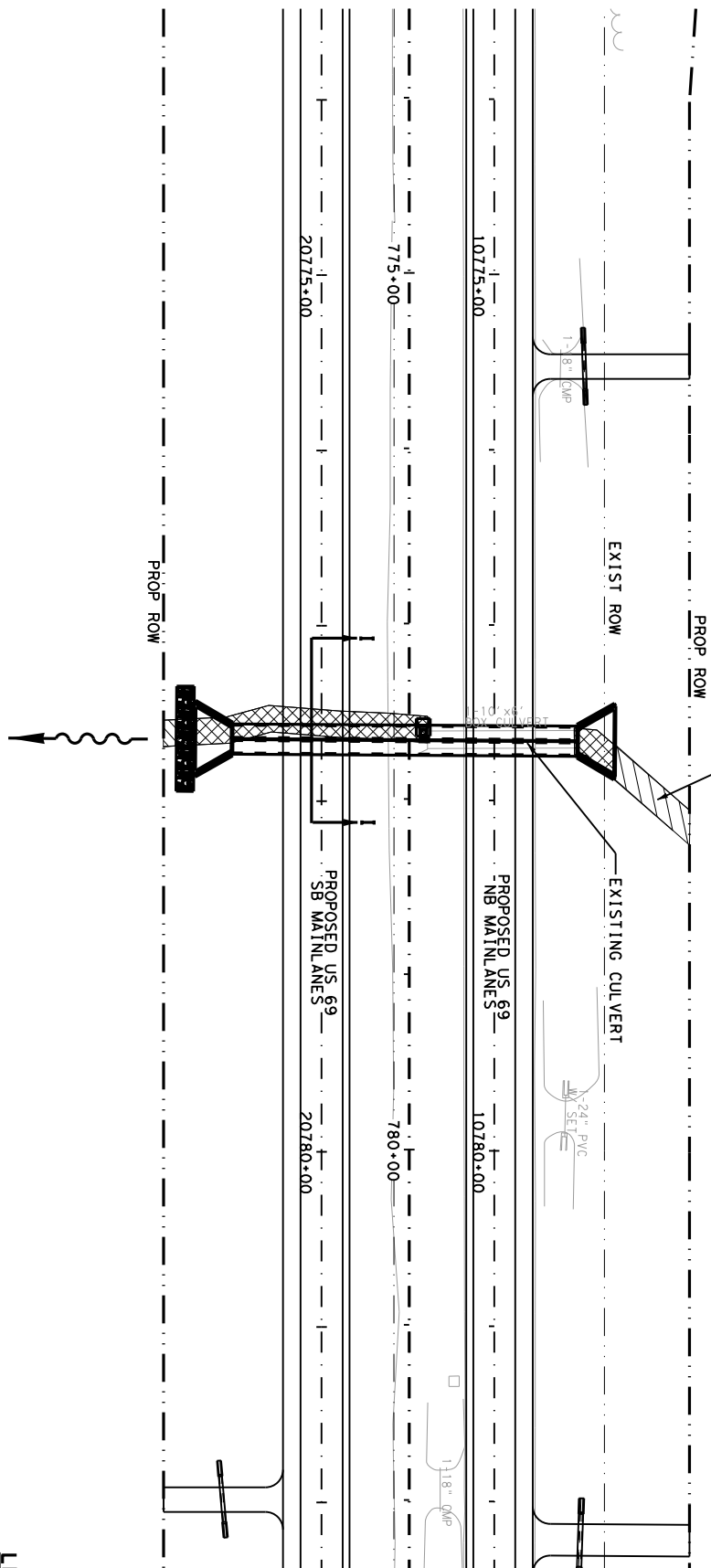
**US 69**

SHEET 10 OF 53



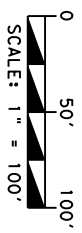
IMPACTS TO WATERS OF THE U.S.  
DECEMBER 12, 2016

STREAM 8:  
 TOTAL AREA = 0.11 ACRES  
 PERMANENT IMPACTS = 0.06 ACRES  
 TEMPORARY IMPACTS = 0.021 ACRES  
 ESTIMATED FILL 32.26 CY CLEAN DIRT  
 ESTIMATED FILL 26.74 CY CONCRETE  
 ESTIMATED FILL 5.93 CY RIPRAP



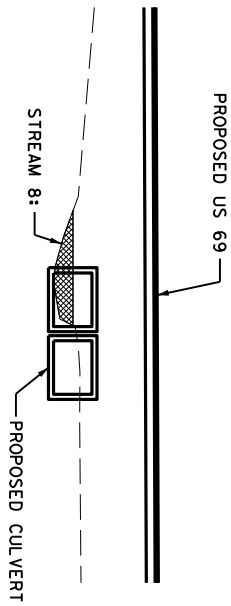
US 69

SHEET 11 OF 53






IMPACTS TO WATERS OF THE U.S.  
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**SECTION I-I**  
(STREAM 8)

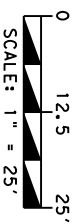


**LEGEND**

	AVOIDED
	TEMP IMPACT
	PERM IMPACT

**US 69**

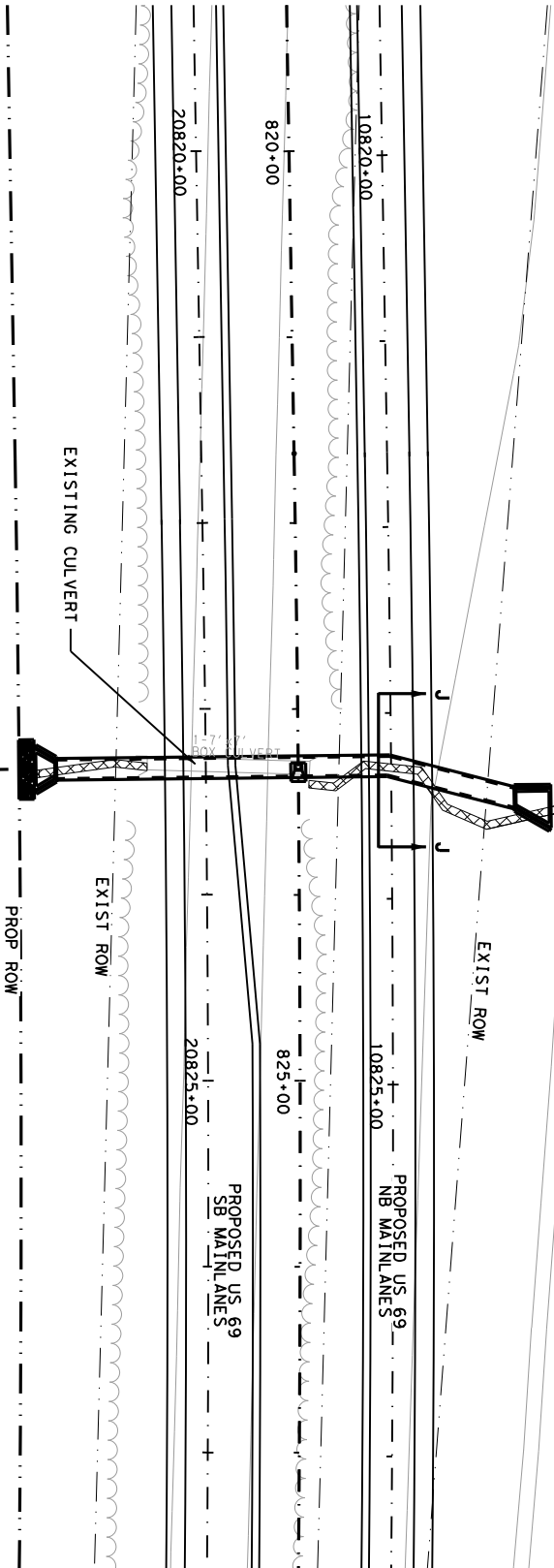
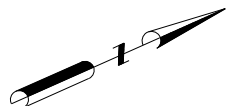
SHEET 12 OF 53



**IMPACTS TO WATERS OF THE U.S.**

**DECEMBER 12, 2016**

STREAM 9:  
 TOTAL AREA = 0.034 ACRES  
 PERMANENT IMPACTS = 0.02 ACRES  
 TEMPORARY IMPACTS = 0.007 ACRES  
 ESTIMATED FILL 3,16 CY CLEAN DIRT  
 ESTIMATED FILL 13,27 CY CONCRETE  
 ESTIMATED FILL 1,26 CY RIPRAP

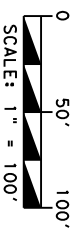


**LEGEND**

	AVOIDED
	TEMP IMPACT
	PERM IMPACT

US 69

SHEET 13 OF 53



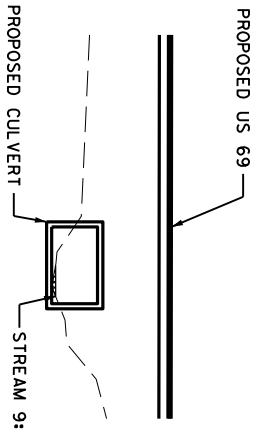
IMPACTS TO WATERS OF THE U.S.




DECEMBER 12, 2016

\$DATE\$ \$TIME\$

Pen Table File

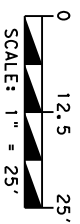
**SECTION J-J**  
(STREAM 9)



- LEGEND**
-  AVOIDED
  -  TEMP IMPACT
  -  PERM IMPACT

**US 69**

SHEET 14 OF 53

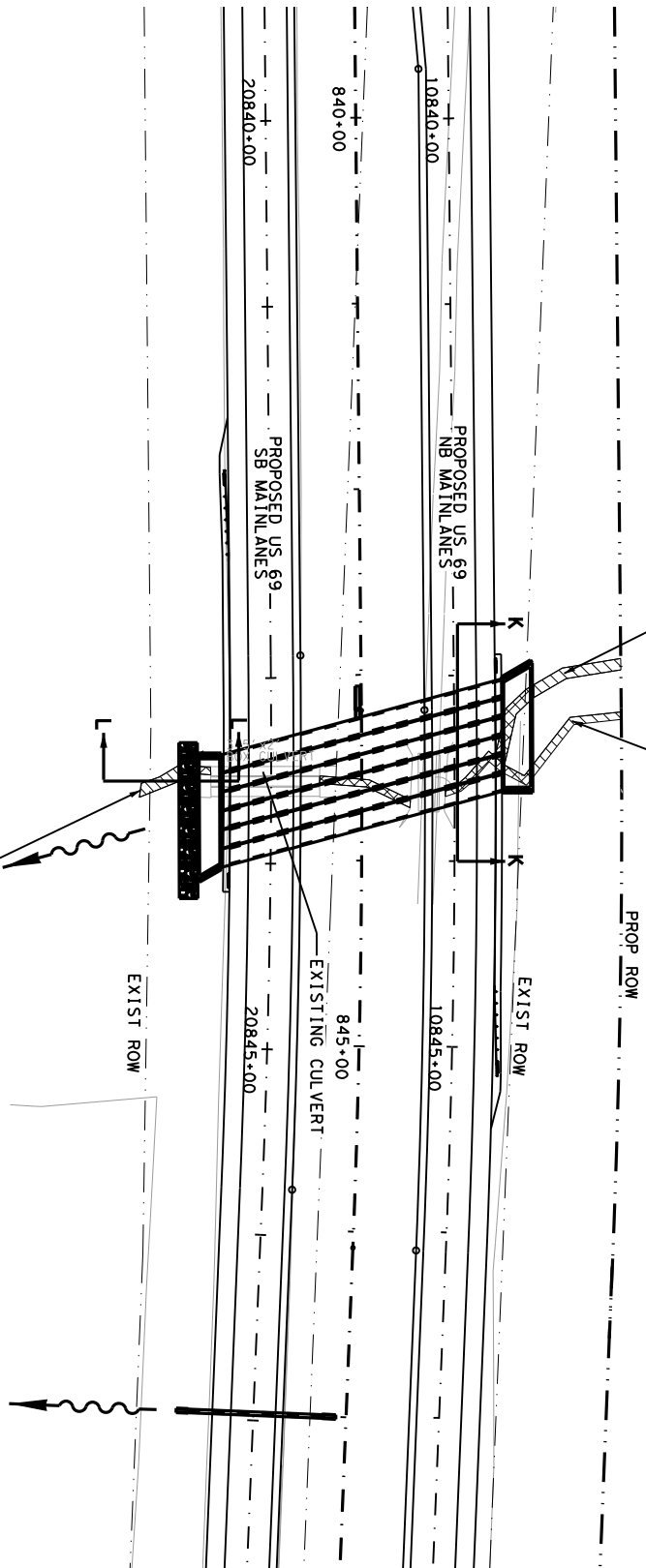


**IMPACTS TO WATERS OF THE U.S.**  
**DECEMBER 12, 2016**




STREAM 100:  
 TOTAL AREA = 0.013 ACRES  
 PERMANENT IMPACTS = 0.006 ACRES  
 TEMPORARY IMPACTS = 0.007 ACRES  
 ESTIMATED FILL 1.69 CY CONCRETE

STREAM 10:  
 TOTAL AREA = 0.024 ACRES  
 PERMANENT IMPACTS = 0.013 ACRES  
 TEMPORARY IMPACTS = 0.003 ACRES  
 ESTIMATED FILL 1.81 CY CONCRETE  
 ESTIMATED FILL 0.41 CY RIPRAP

WETLAND 3:  
 TOTAL AREA = 0.006 ACRES  
 PERMANENT IMPACTS = 0.002 ACRES  
 TEMPORARY IMPACTS = 0.004 ACRES  
 ESTIMATED FILL 3.15 CY RIPRAP

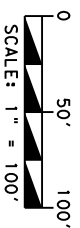


**LEGEND**

	AVOIDED
	TEMP IMPACT
	PERM IMPACT

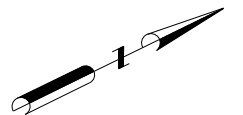
# US 69

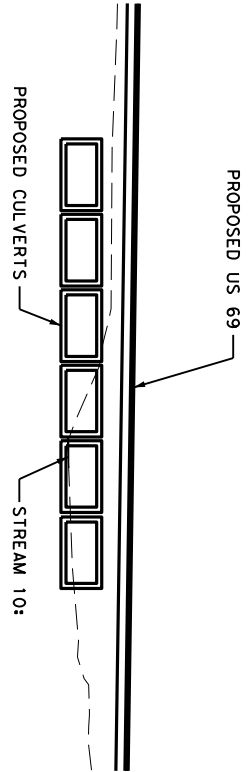
SHEET 15 OF 53



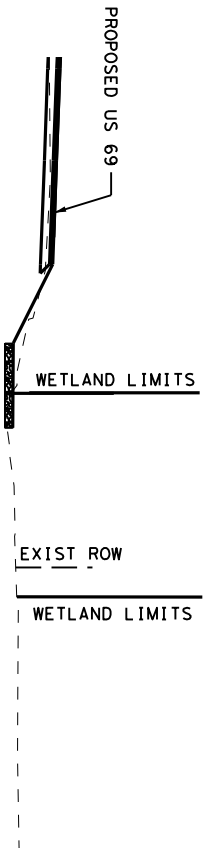
IMPACTS TO WATERS OF THE U.S.

DECEMBER 12, 2016








**SECTION K-K**  
(STREAM 10)



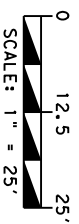
**SECTION L-L**  
(WETLAND 3)

**LEGEND**

	AVOIDED
	TEMP IMPACT
	PERM IMPACT

**US 69**

SHEET 16 OF 53



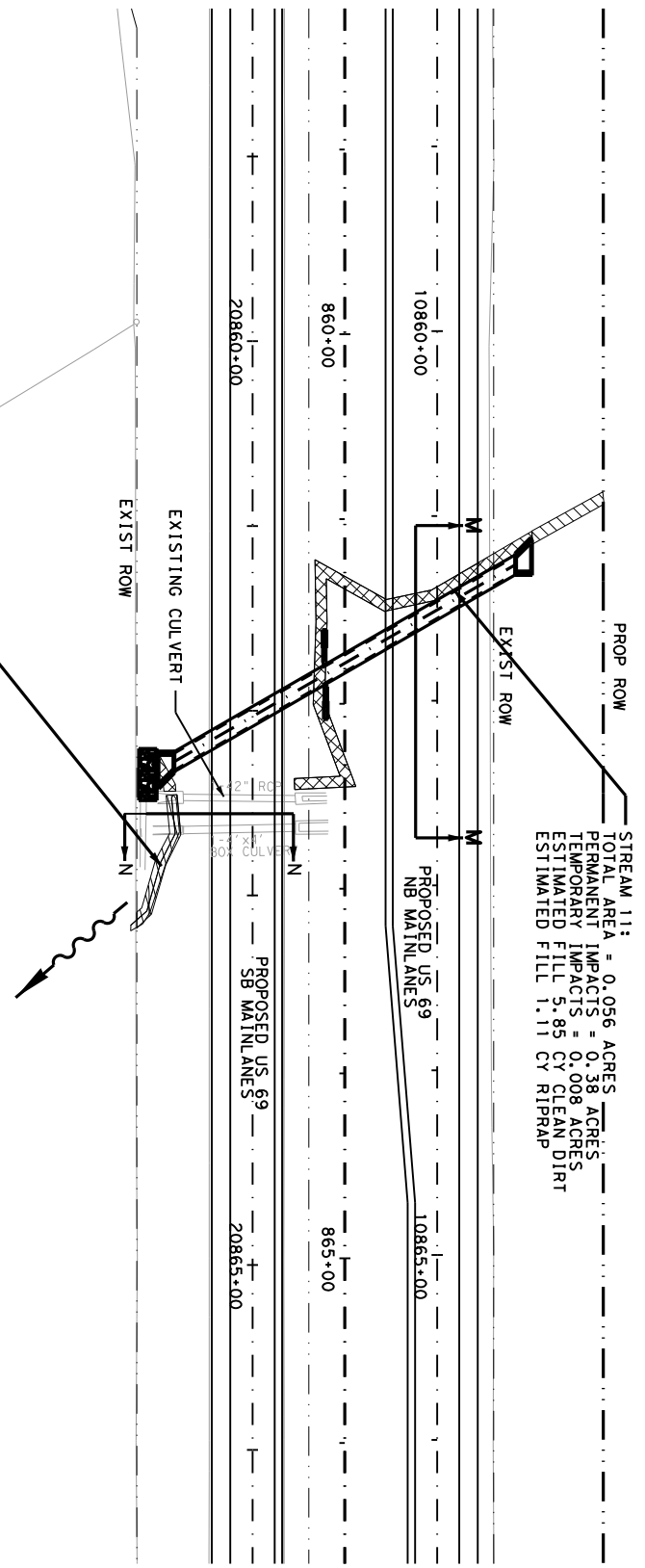
IMPACTS TO WATERS OF THE U.S.




DECEMBER 12, 2016



STREAM 11:  
 TOTAL AREA = 0.056 ACRES  
 PERMANENT IMPACTS = 0.38 ACRES  
 TEMPORARY IMPACTS = 0.008 ACRES  
 ESTIMATED FILL 5.85 CY CLEAN DIRT  
 ESTIMATED FILL 1.11 CY RIPRAP

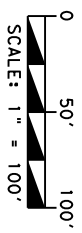
WETLAND 4:  
 TOTAL AREA = 0.004 ACRES  
 PERMANENT IMPACTS = 0 ACRES  
 TEMPORARY IMPACTS = 0.004 ACRES



- LEGEND**
-  AVOIDED
  -  TEMP IMPACT
  -  PERM IMPACT

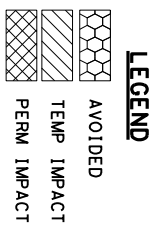
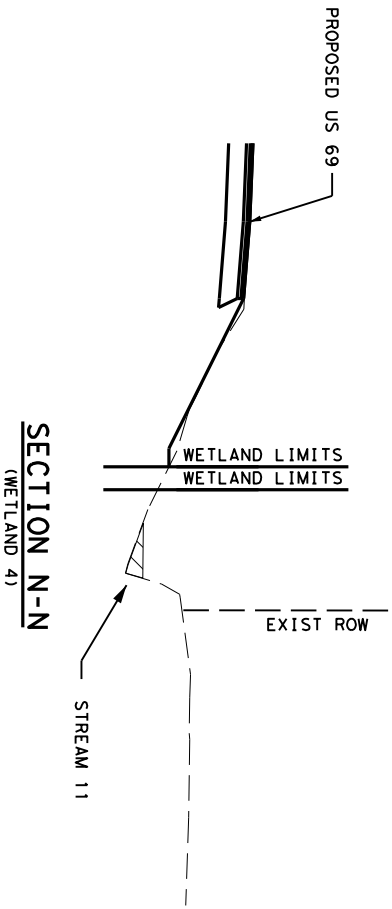
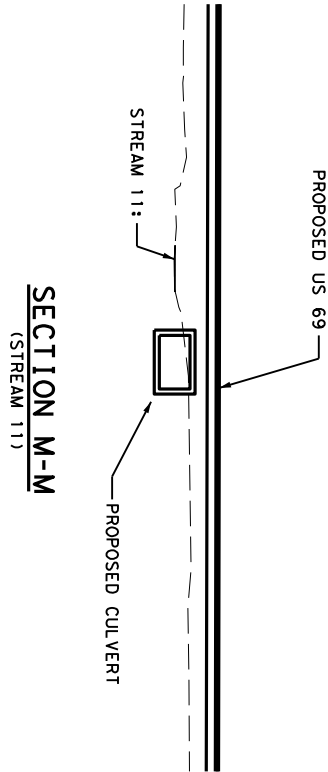
US 69

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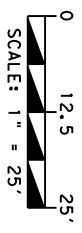
IMPACTS TO WATERS OF THE U.S.

DECEMBER 12, 2016



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SHEET 18 OF 53



IMPACTS TO WATERS OF THE U.S.  
DECEMBER 12, 2016

TOTAL AREA = 0.049 ACRES  
 PERMANENT IMPACTS = 0.022 ACRES  
 TEMPORARY IMPACTS = 0.02 ACRES  
 ESTIMATED FILL 26.33 CY CLEAN DIRT  
 ESTIMATED FILL 3.15 CY CONCRETE

EXIST ROW

PROP ROW

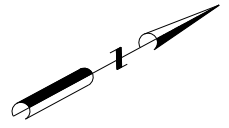
STREAM 12c:  
 TOTAL AREA = 0.002 ACRES  
 PERMANENT IMPACTS = 0.0006 ACRES  
 TEMPORARY IMPACTS = 0.0014 ACRES  
 ESTIMATED FILL 0.18 CY CLEAN DIRT

PROPOSED US 69  
 NB MAINLANES




PROPOSED US 69  
 SB MAINLANES

EXIST ROW

EXISTING CULVERT

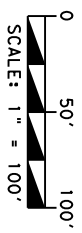


**LEGEND**

	AVOIDED
	TEMP IMPACT
	PERM IMPACT

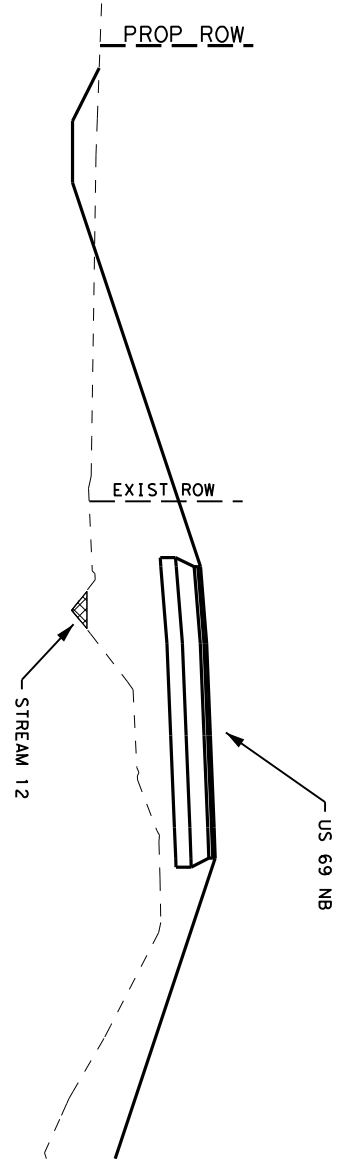
US 69

SHEET 19 OF 53

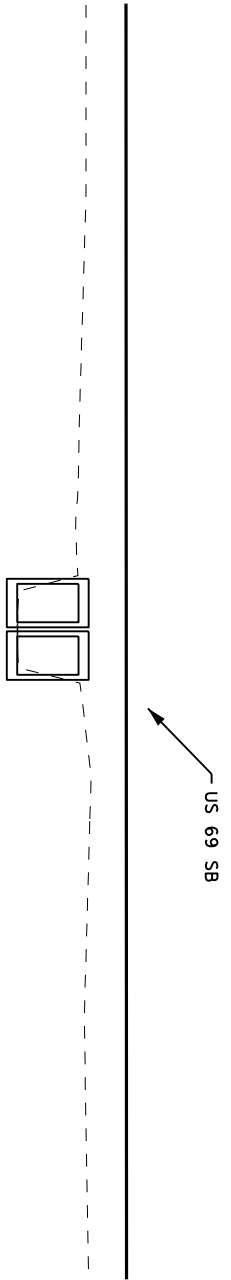


IMPACTS TO WATERS OF THE U.S.




DECEMBER 12, 2016



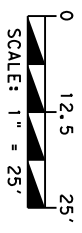
SECTION 0-0  
(STREAM 12)



SECTION P-P  
(STREAM 12)

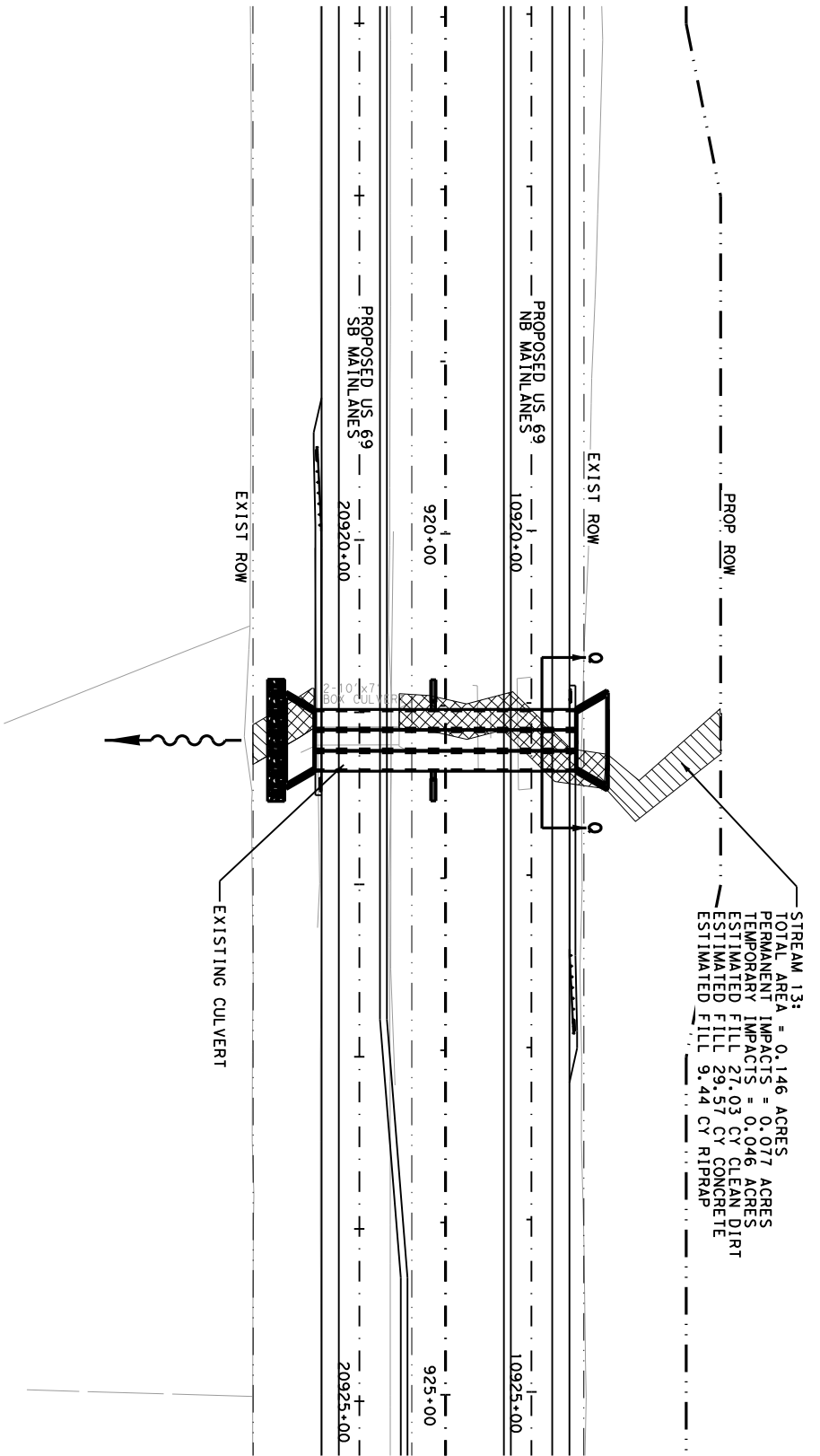
- LEGEND**
-  AVOIDED
  -  TEMP IMPACT
  -  PERM IMPACT

SHEET 20 OF 53

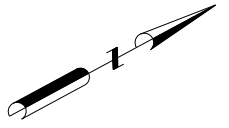


IMPACTS TO WATERS OF THE U.S.  
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


\$DATE\$ \$TIME\$



STREAM 13:  
 TOTAL AREA = 0.146 ACRES  
 PERMANENT IMPACTS = 0.077 ACRES  
 TEMPORARY IMPACTS = 0.046 ACRES  
 ESTIMATED FILL 27.03 CY CLEAN DIRT  
 ESTIMATED FILL 29.57 CY CONCRETE  
 ESTIMATED FILL 9.44 CY RIPRAP

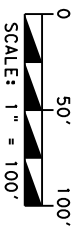


**LEGEND**

	AVOIDED
	TEMP IMPACT
	PERM IMPACT

**US 69**

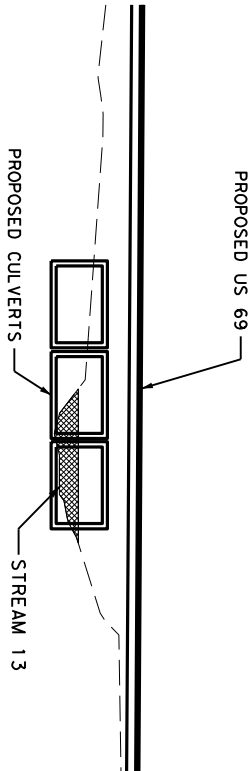
SHEET 21 OF 53






**IMPACTS TO WATERS OF THE U.S.**

**DECEMBER 12, 2016**

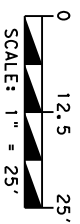
**SECTION Q-Q**  
(STREAM 13)



- LEGEND**
-  AVOIDED
  -  TEMP IMPACT
  -  PERM IMPACT

**US 69**

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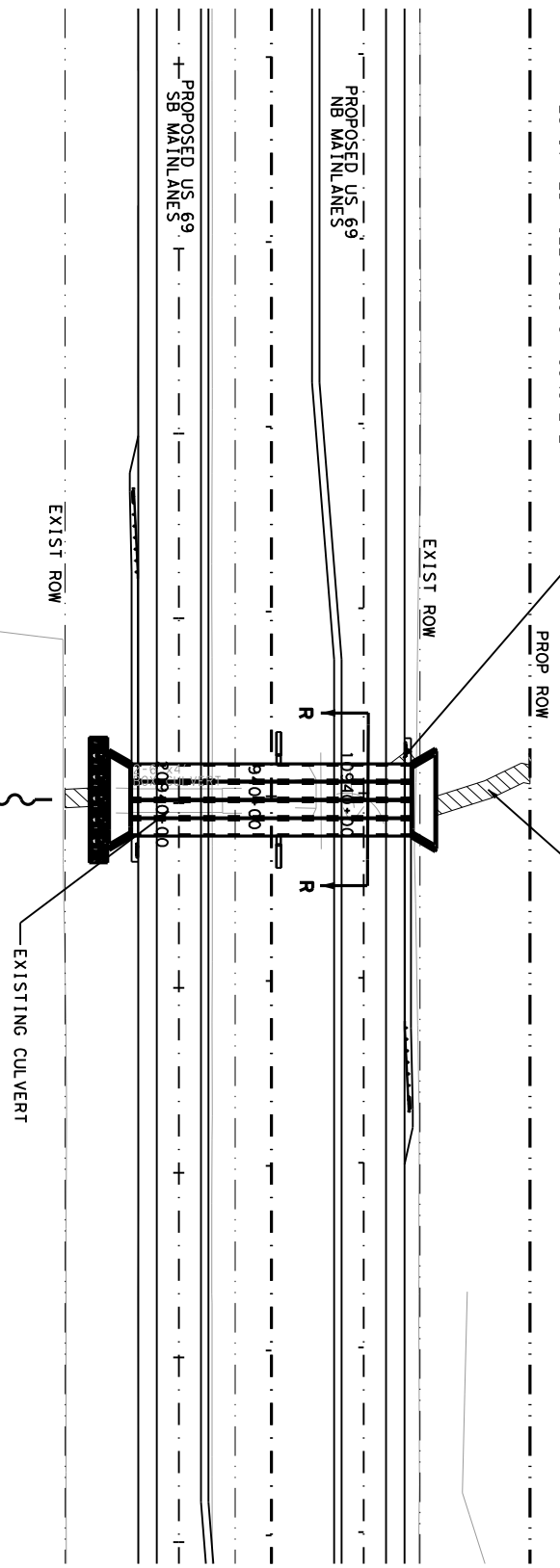
**IMPACTS TO WATERS OF THE U.S.**  
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\$DATE\$ \$TIME\$

Pen Table File

STREAM 14g:  
 TOTAL AREA = 0.004 ACRES  
 PERMANENT IMPACTS = 0.004 ACRES  
 TEMPORARY IMPACTS = 0 ACRES  
 ESTIMATED FILL 0.58 CY CLEAN DIRT  
 ESTIMATED FILL 0.26 CY CONCRETE

STREAM 14:  
 TOTAL AREA = 0.06 ACRES  
 PERMANENT IMPACTS = 0.033 ACRES  
 TEMPORARY IMPACTS = 0.015 ACRES  
 ESTIMATED FILL 13.64 CY CONCRETE  
 ESTIMATED FILL 4.37 CY RIPRAP

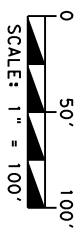


**LEGEND**

	AVOIDED
	TEMP IMPACT
	PERM IMPACT

**US 69**

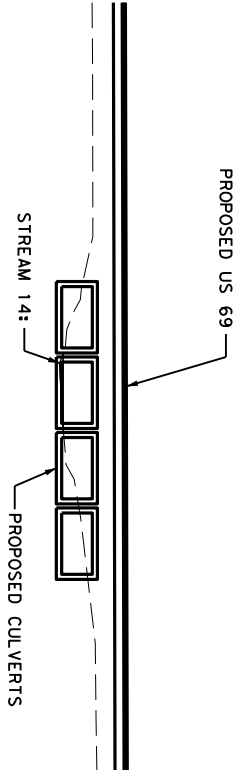
SHEET 23 OF 53






IMPACTS TO WATERS OF THE U.S.

DECEMBER 12, 2016

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\$TIME\$

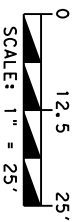


**SECTION R-R**  
(STREAM 14)

- LEGEND**
-  AVOIDED
  -  TEMP IMPACT
  -  PERM IMPACT

**US 69**

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IMPACTS TO WATERS OF THE U.S.

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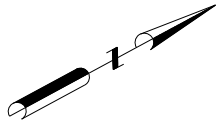
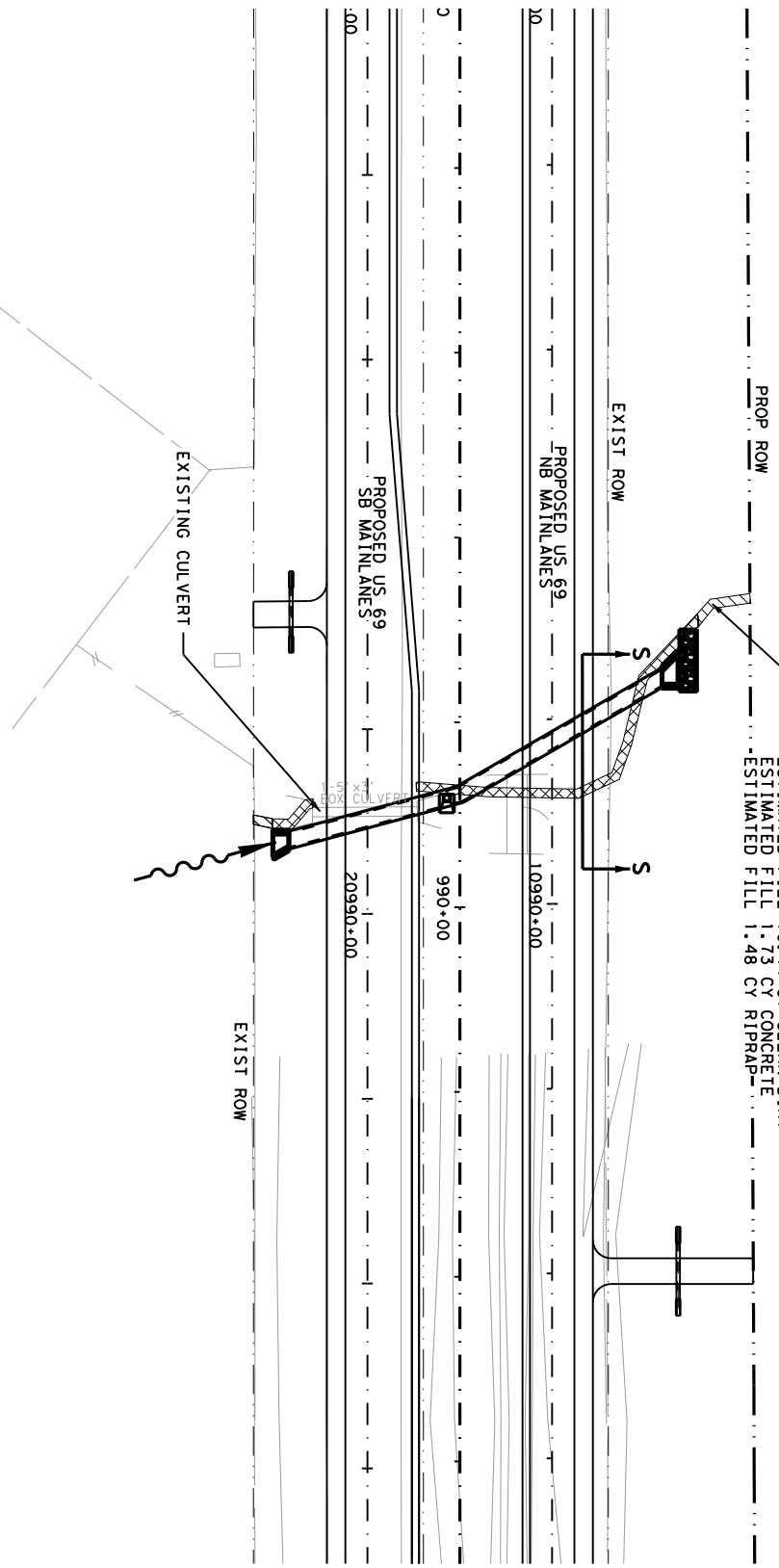
\$DATE\$ \$TIME\$

Pen Table File



\$DATE\$ \$TIME\$

STREAM 15:  
 TOTAL AREA = 0.038 ACRES  
 PERMANENT IMPACTS = 0.027 ACRES  
 TEMPORARY IMPACTS = 0.005 ACRES  
 ESTIMATED FILL 10.44 CY CLEAN DIRT  
 ESTIMATED FILL 1.73 CY CONCRETE  
 ESTIMATED FILL 1.48 CY RIPRAP

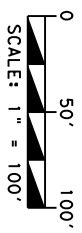


**LEGEND**

	AVOIDED
	TEMP IMPACT
	PERM IMPACT

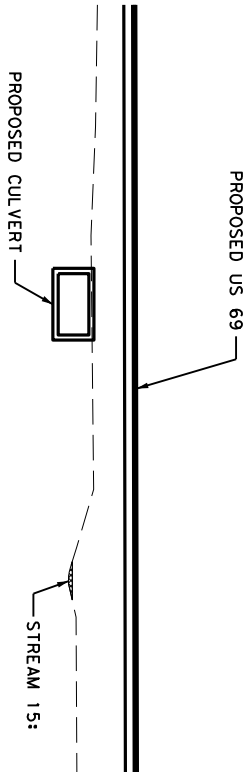
US 69

SHEET 25 OF 53






IMPACTS TO WATERS OF THE U.S.

DECEMBER 12, 2016

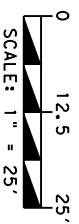


**SECTION S-S**  
(STREAM 15)

- LEGEND**
-  AVOIDED
  -  TEMP IMPACT
  -  PERM IMPACT

**US 69**

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\$DATE\$ \$TIME\$

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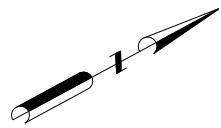
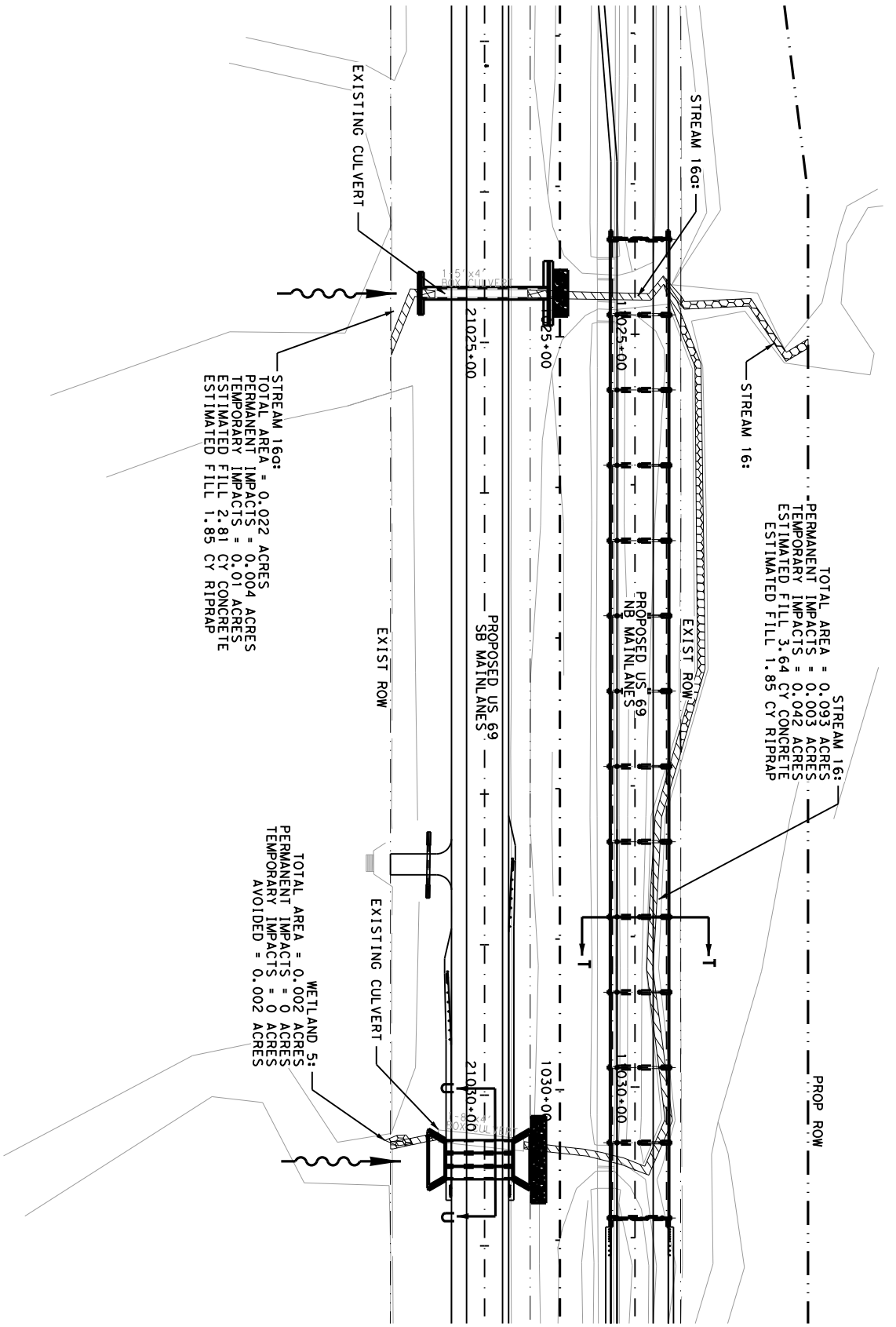
US 69

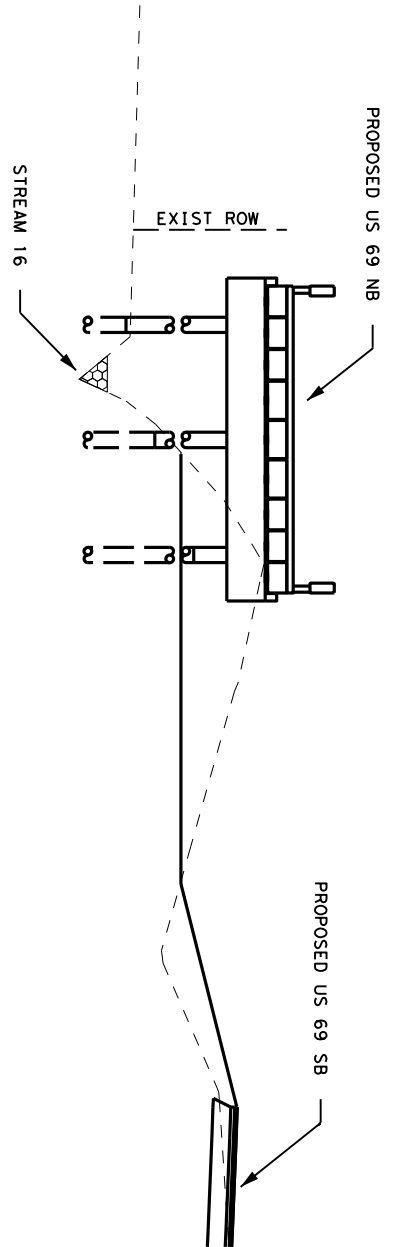
LEGEND

	AVOIDED
	TEMP IMPACT
	PERM IMPACT

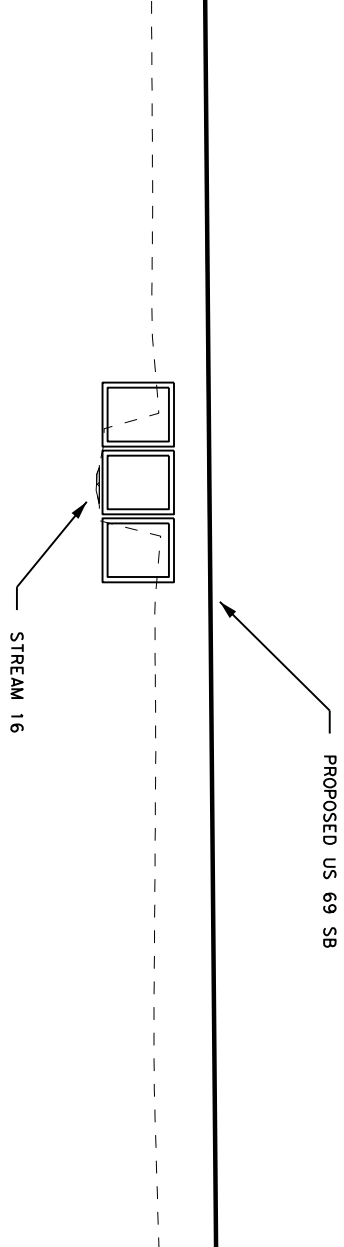
IMPACTS TO WATERS OF THE U.S.

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**SECTION T-I**  
(STREAM 16)

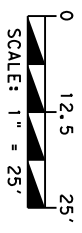


**SECTION U-U**  
(STREAM 16)

**LEGEND**

	AVOIDED
	TEMP IMPACT
	PERM IMPACT

SHEET 28 OF 53

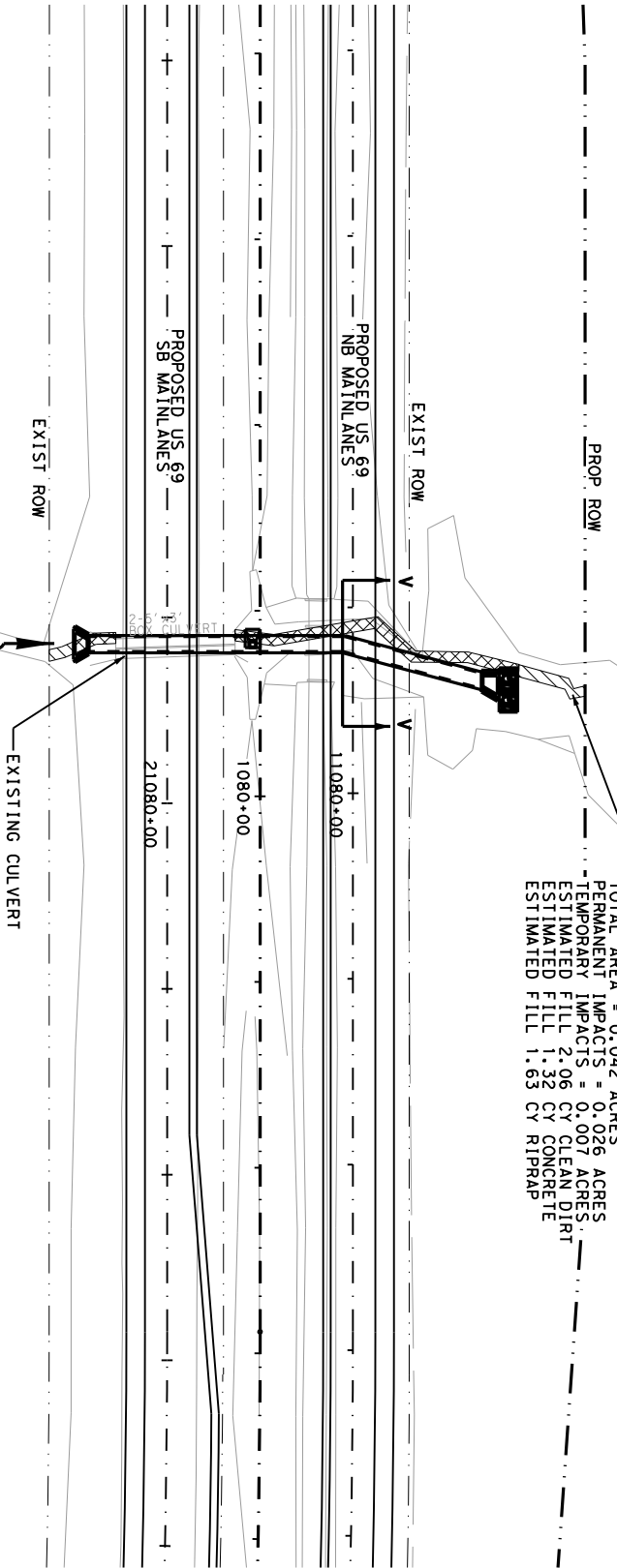


**IMPACTS TO WATERS OF THE U.S.**  
**DECEMBER 12, 2016**




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STREAM 17:  
 TOTAL AREA = 0.042 ACRES  
 PERMANENT IMPACTS = 0.026 ACRES  
 TEMPORARY IMPACTS = 0.007 ACRES  
 ESTIMATED FILL 2.06 CY CLEAN DIRT  
 ESTIMATED FILL 1.32 CY CONCRETE  
 ESTIMATED FILL 1.63 CY RIPRAP

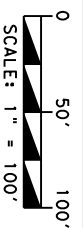


**LEGEND**

	AVOIDED
	TEMP IMPACT
	PERM IMPACT

**US 69**

SHEET 29 OF 53

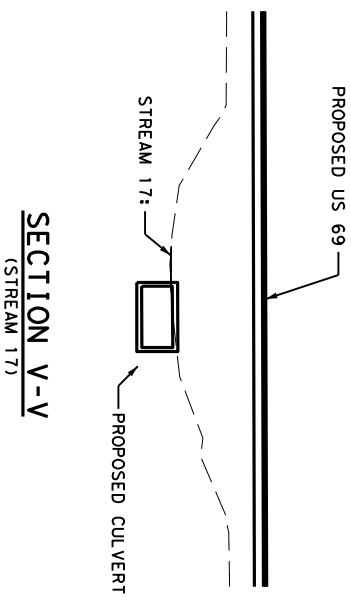





**IMPACTS TO WATERS OF THE U.S.**

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\$DATE\$ \$TIME\$

Pen Table File



- LEGEND**
-  AVOIDED
  -  TEMP IMPACT
  -  PERM IMPACT

**US 69**

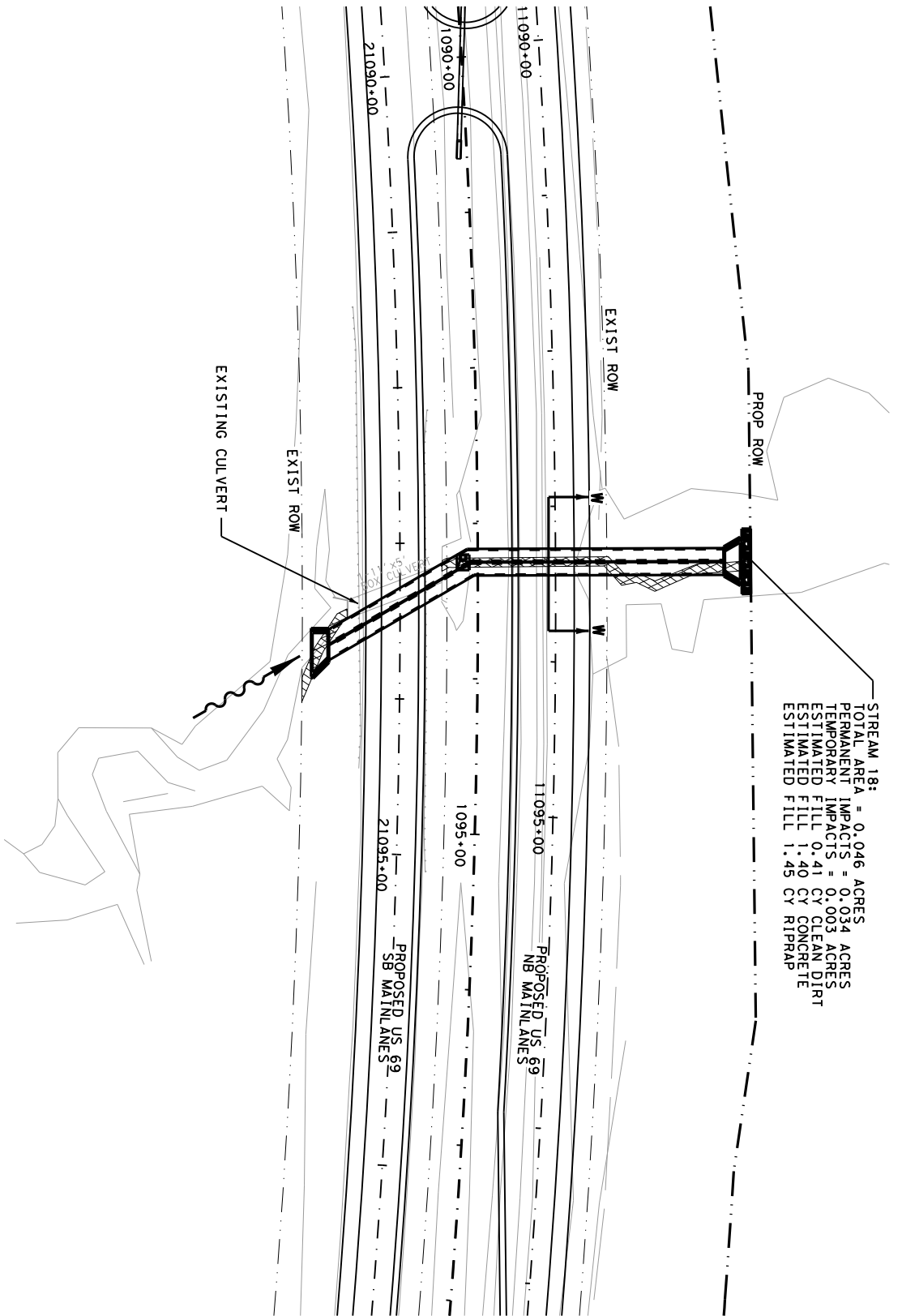
SHEET 30 OF 53



**IMPACTS TO WATERS OF THE U.S.**  
**DECEMBER 12, 2016**




\$DATE\$ \$TIME\$

Pen Table File



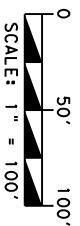
STREAM 18:  
 TOTAL AREA = 0.046 ACRES  
 PERMANENT IMPACTS = 0.034 ACRES  
 TEMPORARY IMPACTS = 0.003 ACRES  
 ESTIMATED FILL 0.41 CY CLEAN DIRT  
 ESTIMATED FILL 1.40 CY CONCRETE  
 ESTIMATED FILL 1.45 CY RIPRAP

**LEGEND**

	AVOIDED
	TEMP IMPACT
	PERM IMPACT

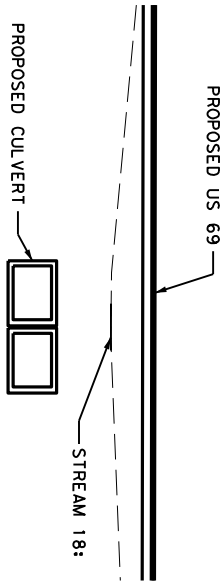
US 69

SHEET 31 OF 53






IMPACTS TO WATERS OF THE U.S.

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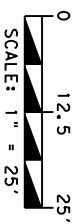


**SECTION W-W**  
(STREAM 18)

- LEGEND**
-  AVOIDED
  -  TEMP IMPACT
  -  PERM IMPACT

**US 69**

SHEET 32 OF 53



**IMPACTS TO WATERS OF THE U.S.**  
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\$DATE\$ \$TIME\$

Pen Table File



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SHEET 33 OF 53

US 69

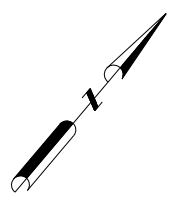
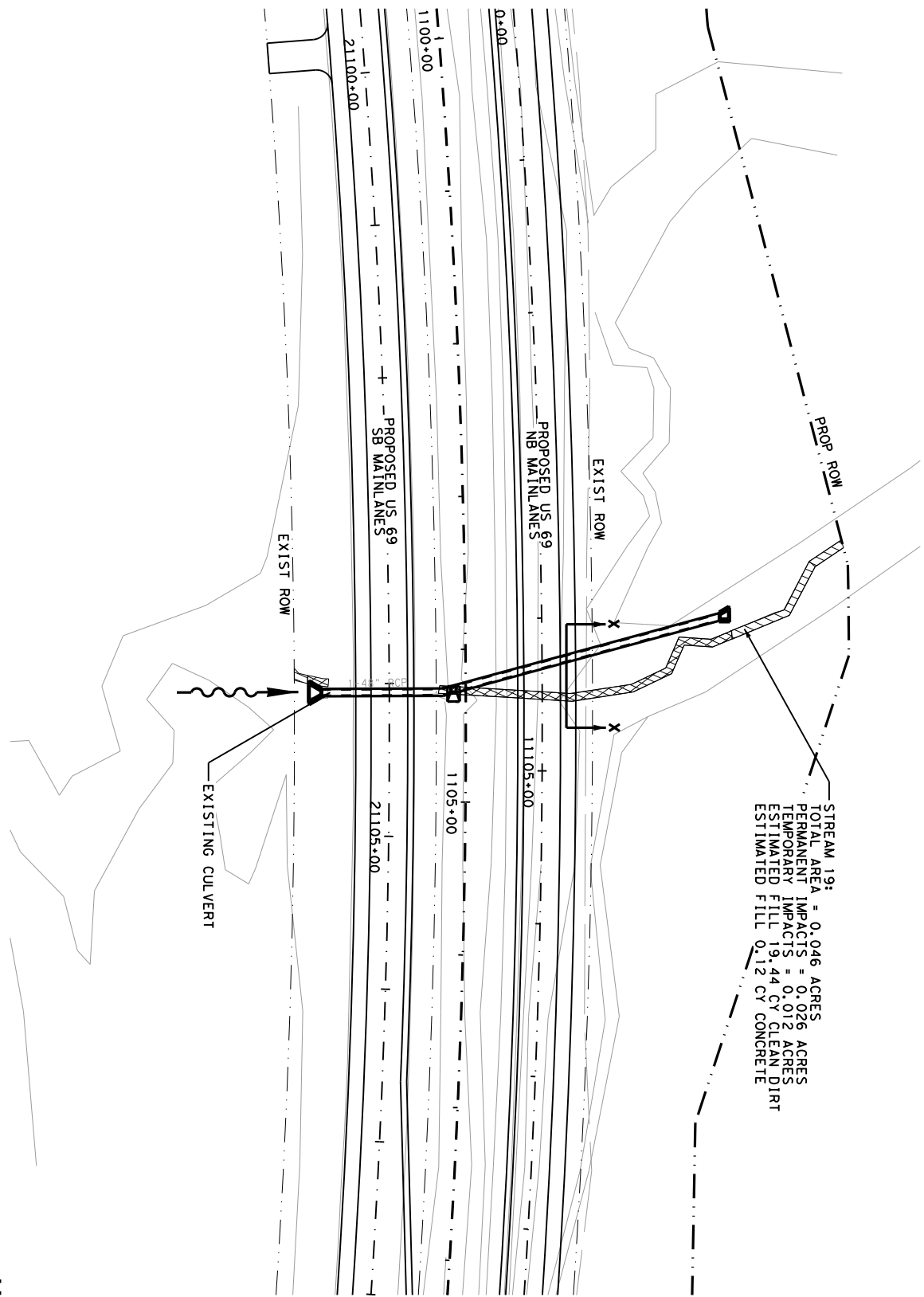
IMPACTS TO WATERS OF THE U.S.

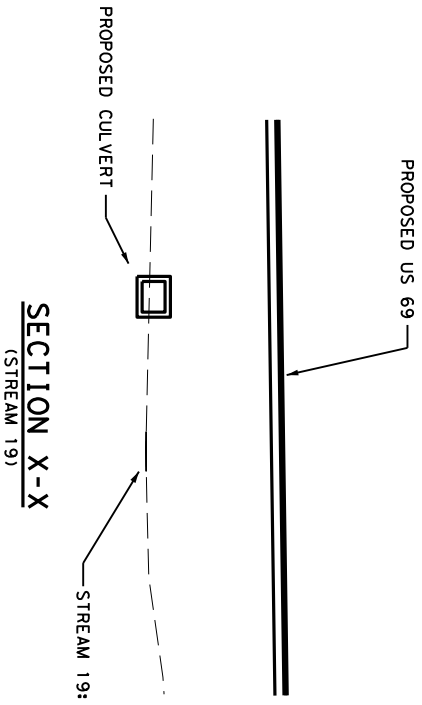
DECEMBER 12, 2016

SCALE: 1" = 100'

**LEGEND**

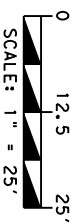
	AVOIDED
	TEMP IMPACT
	PERM IMPACT





**US 69**

SHEET 34 OF 53

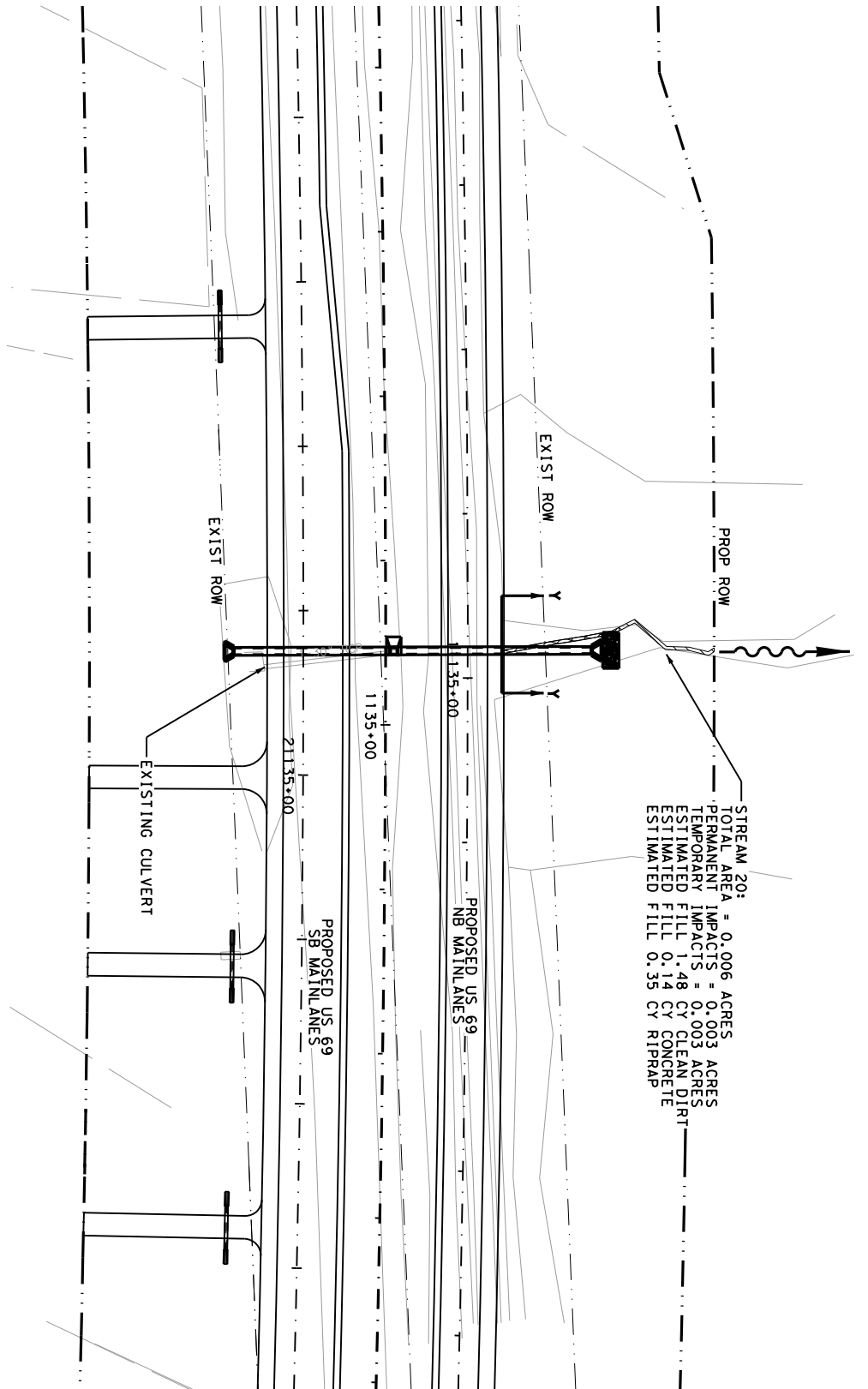


**IMPACTS TO WATERS OF THE U.S.**

**DECEMBER 12, 2016**

\$DATE\$ \$TIME\$

Pen Table File



STREAM 20:  
 TOTAL AREA = 0.006 ACRES  
 PERMANENT IMPACTS = 0.003 ACRES  
 TEMPORARY IMPACTS = 0.003 ACRES  
 ESTIMATED FILL 1.48 CY CLEAN DIRT  
 ESTIMATED FILL 0.14 CY CONCRETE  
 ESTIMATED FILL 0.35 CY RIPRAP

PROPOSED US 69  
 SB MAIN LANES

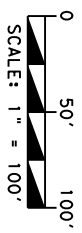
EXISTING CULVERT

**LEGEND**

	AVOIDED
	TEMP IMPACT
	PERM IMPACT

**US 69**

SHEET 35 OF 53

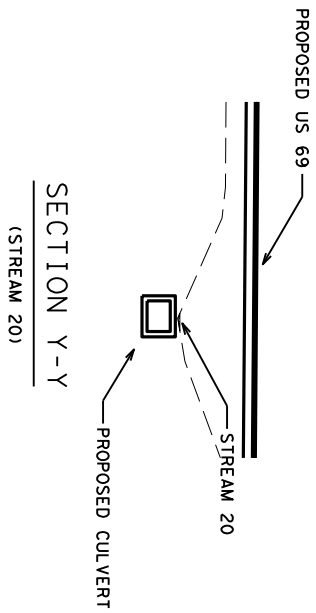





IMPACTS TO WATERS OF THE U.S.

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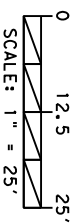
Pen Table File



- LEGEND**
-  AVOIDED
  -  TEMP IMPACT
  -  PERM IMPACT

**US 69**

SHEET 36 OF 53

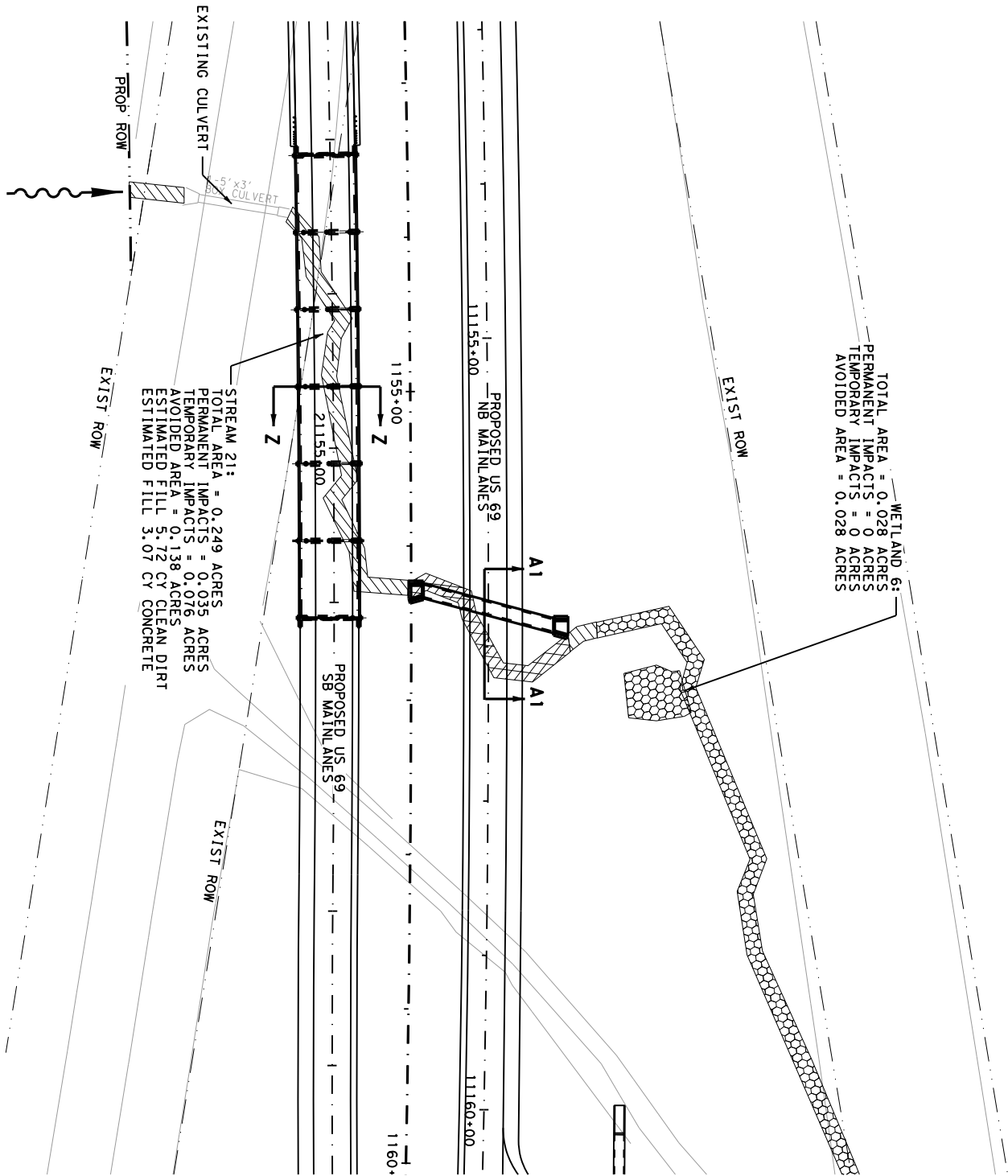


**IMPACTS TO WATERS OF THE U.S.**

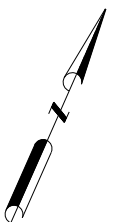
**DECEMBER 12, 2016**

\$DATE\$ \$TIME\$

Pen Table File



\$DATE\$ \$TIME\$

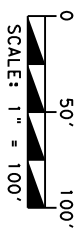


**LEGEND**

	AVOIDED
	TEMP IMPACT
	PERM IMPACT

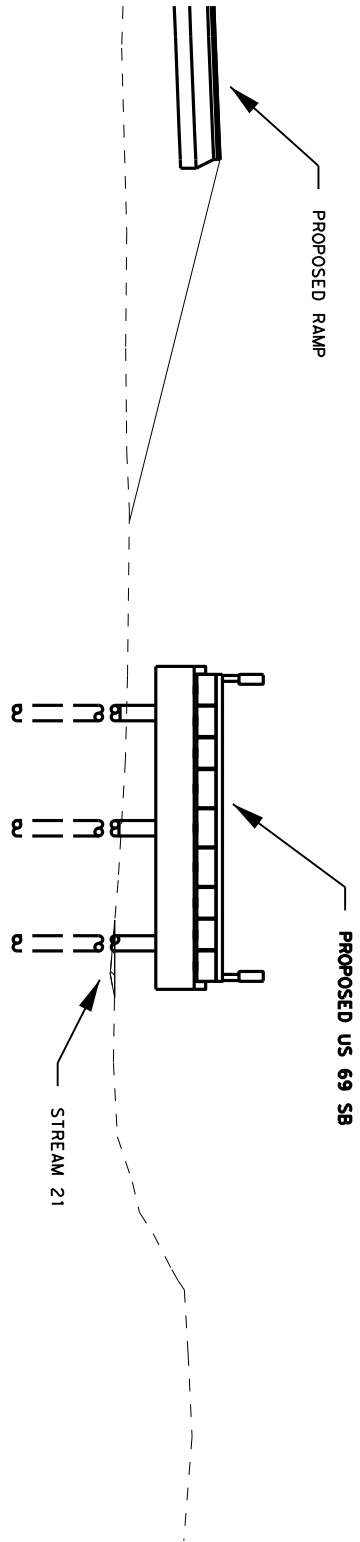
**US 69**

SHEET 37 OF 53

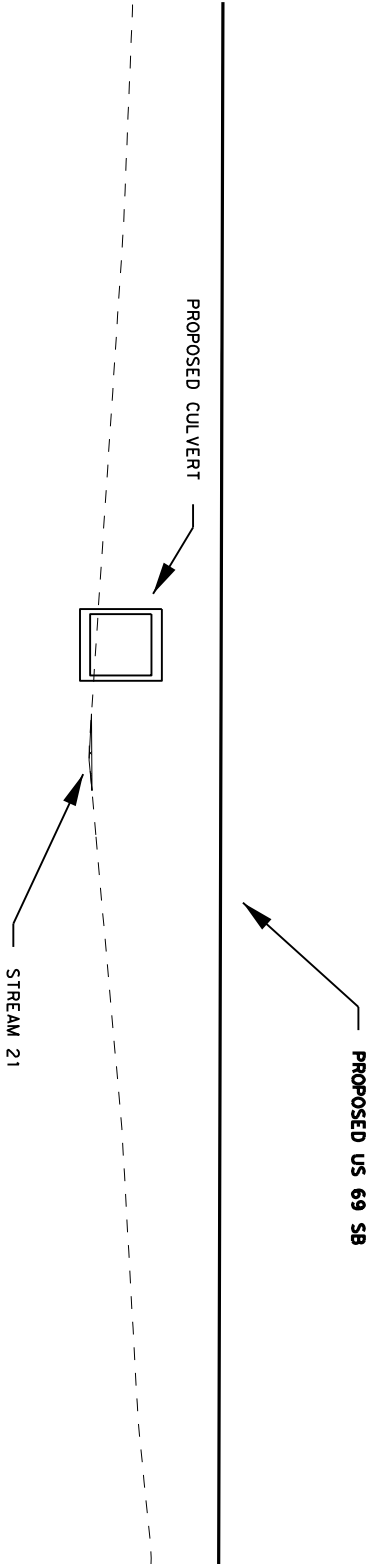


IMPACTS TO WATERS OF THE U.S.

DECEMBER 12, 2016



**SECTION Z-Z**  
(STREAM 21)



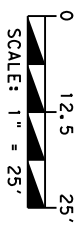
**SECTION A1-A1**  
(STREAM 21)

**LEGEND**

	AVOIDED
	TEMP IMPACT
	PERM IMPACT

**US 69**

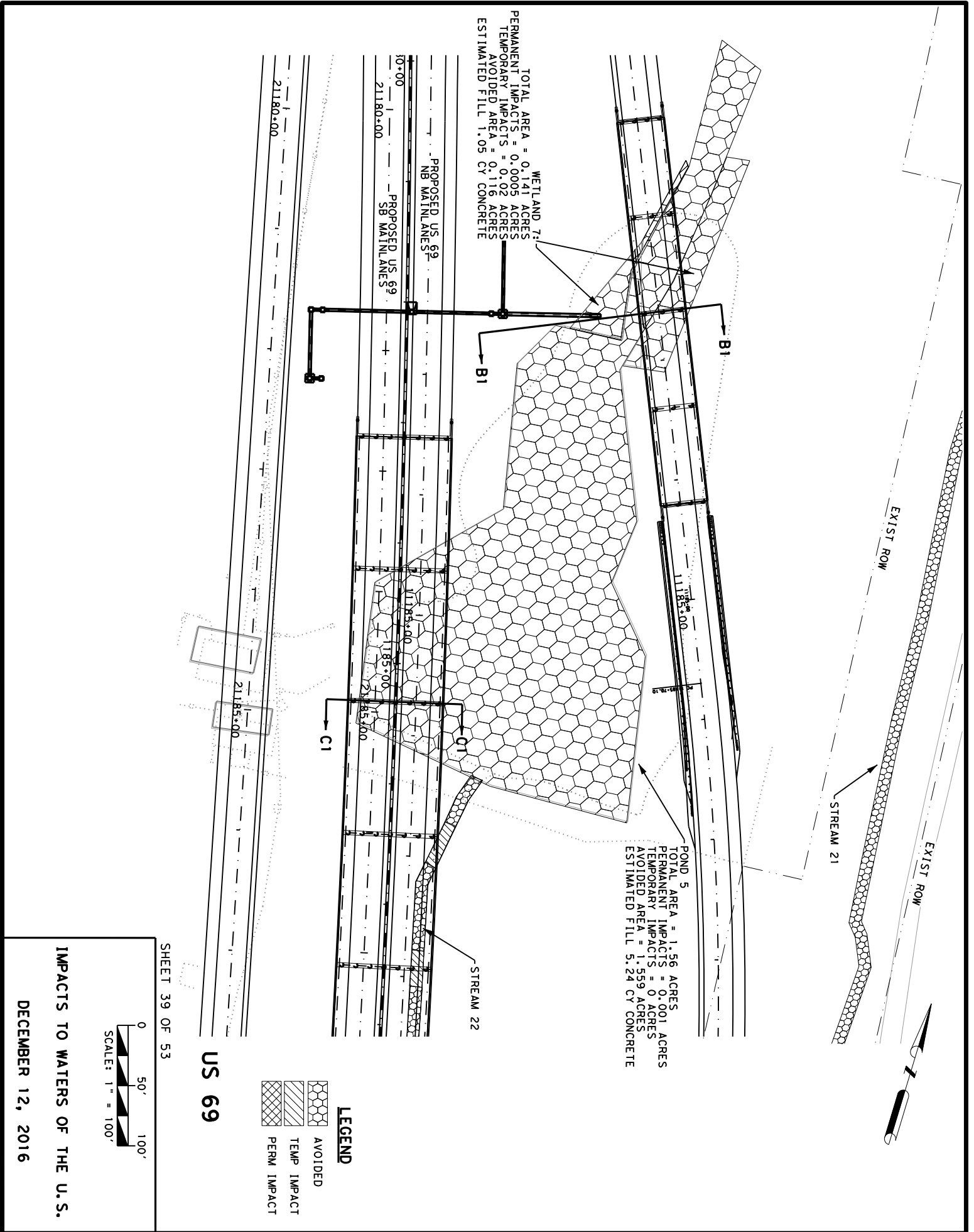
SHEET 38 OF 53

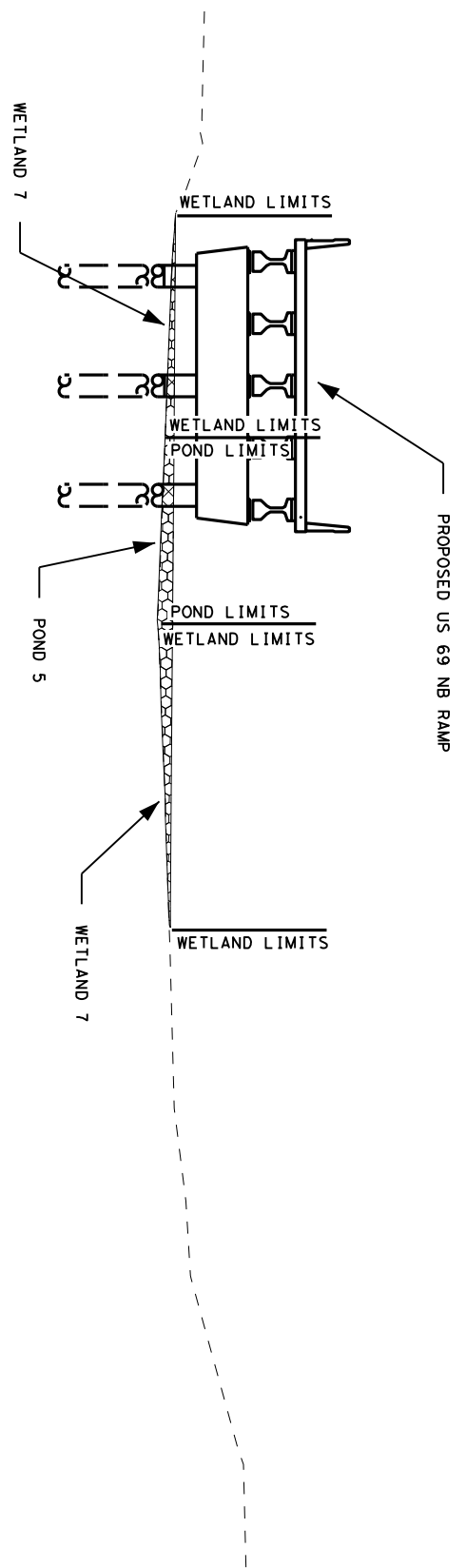


IMPACTS TO WATERS OF THE U.S.

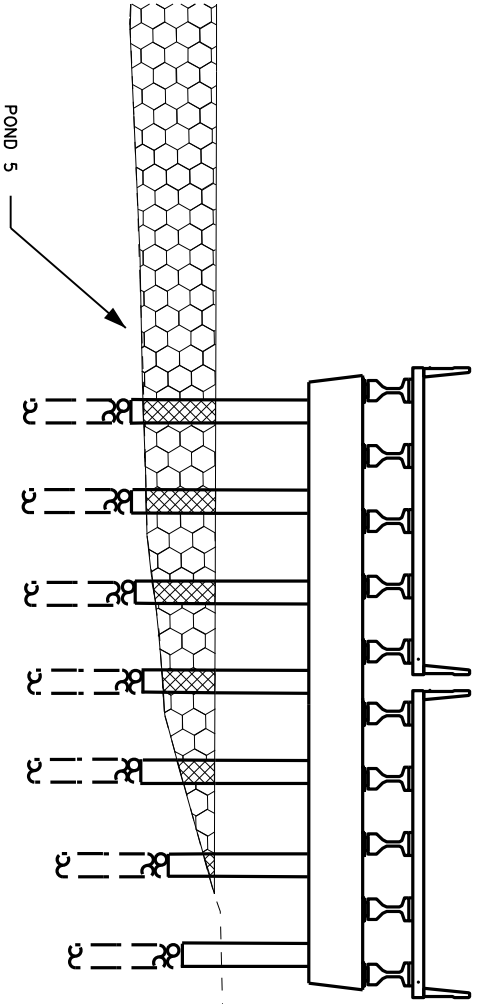
DECEMBER 12, 2016

\$DATE\$ \$TIME\$








**SECTION B1-B1**  
(WETLAND 7 & POND 5)



**SECTION C1-C1**  
(POND 5)

**LEGEND**

	AVOIDED
	TEMP IMPACT
	PERM IMPACT

**US 69**

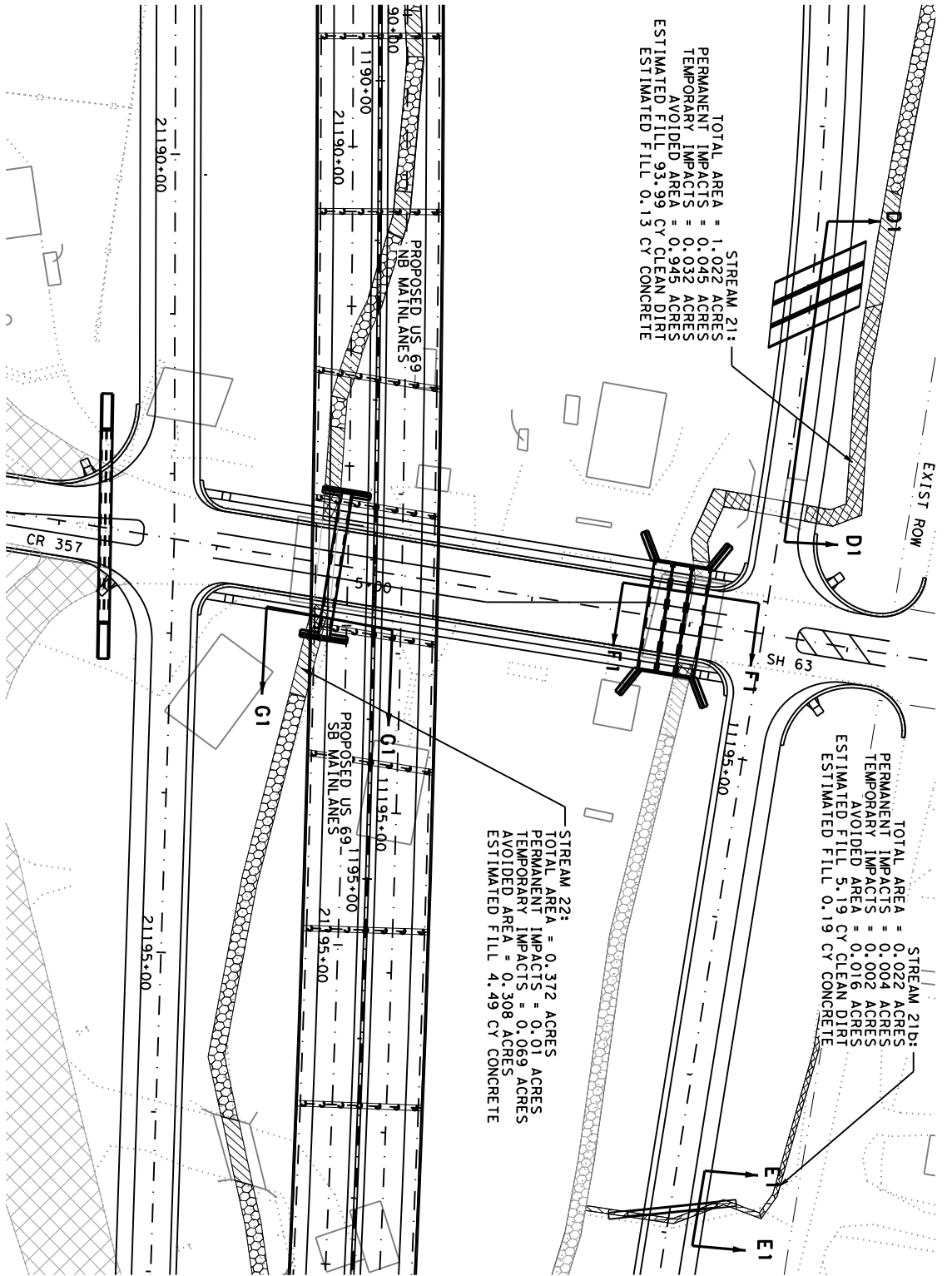
SHEET 40 OF 53



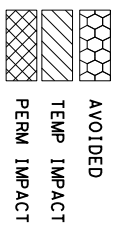
IMPACTS TO WATERS OF THE U.S.

DECEMBER 12, 2016

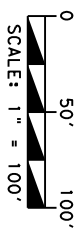




US 69



SHEET 41 OF 53

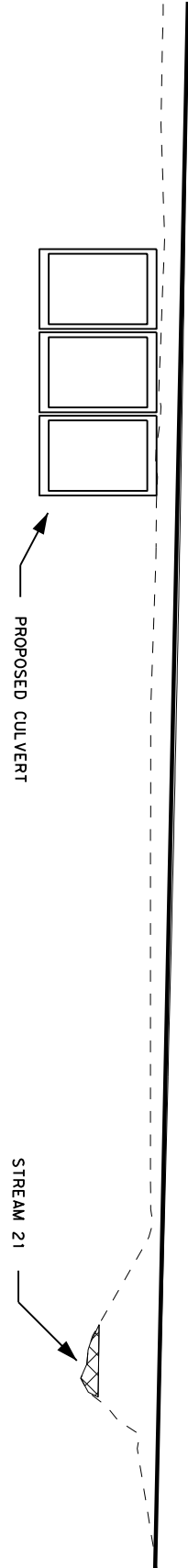


IMPACTS TO WATERS OF THE U.S.

DECEMBER 12, 2016



PROPOSED US 69 NB ENTRANCE RAMP

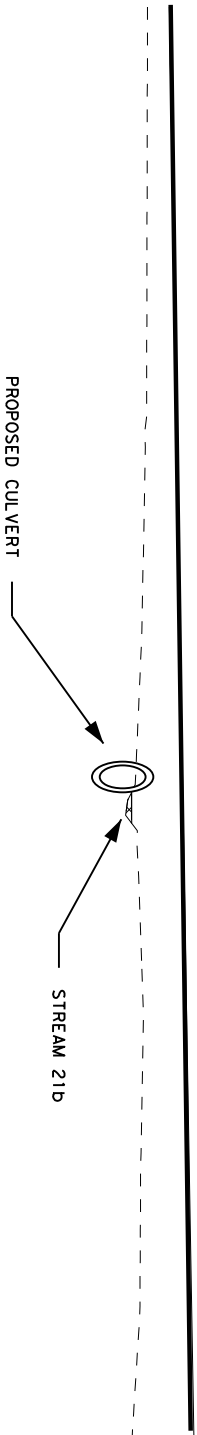


PROPOSED CULVERT

**SECTION D1-D1**  
(STREAM 21)

STREAM 21

PROPOSED US 69 NB EXIT RAMP



PROPOSED CULVERT

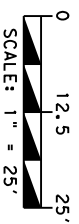
**SECTION E1-E1**  
(STREAM 21D)

**LEGEND**

	AVOIDED
	TEMP IMPACT
	PERM IMPACT

**US 69**

SHEET 42 OF 53

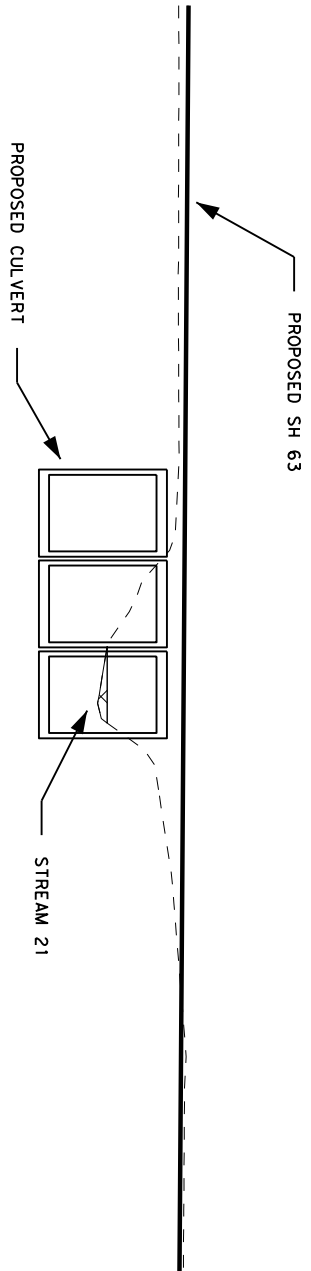


IMPACTS TO WATERS OF THE U.S.

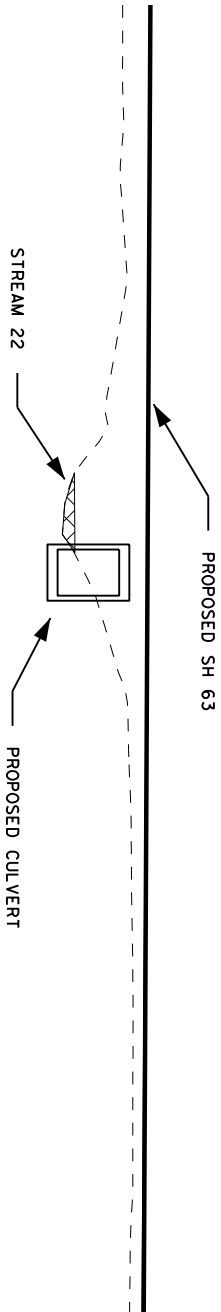
DECEMBER 12, 2016

\$DATE\$ \$TIME\$

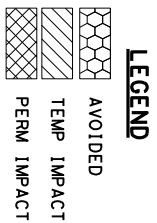
Pen Table File



**SECTION F1-F1**  
(STREAM 21)

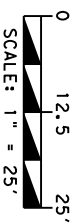


**SECTION G1-G1**  
(STREAM 22)



**US 69**

SHEET 43 OF 53



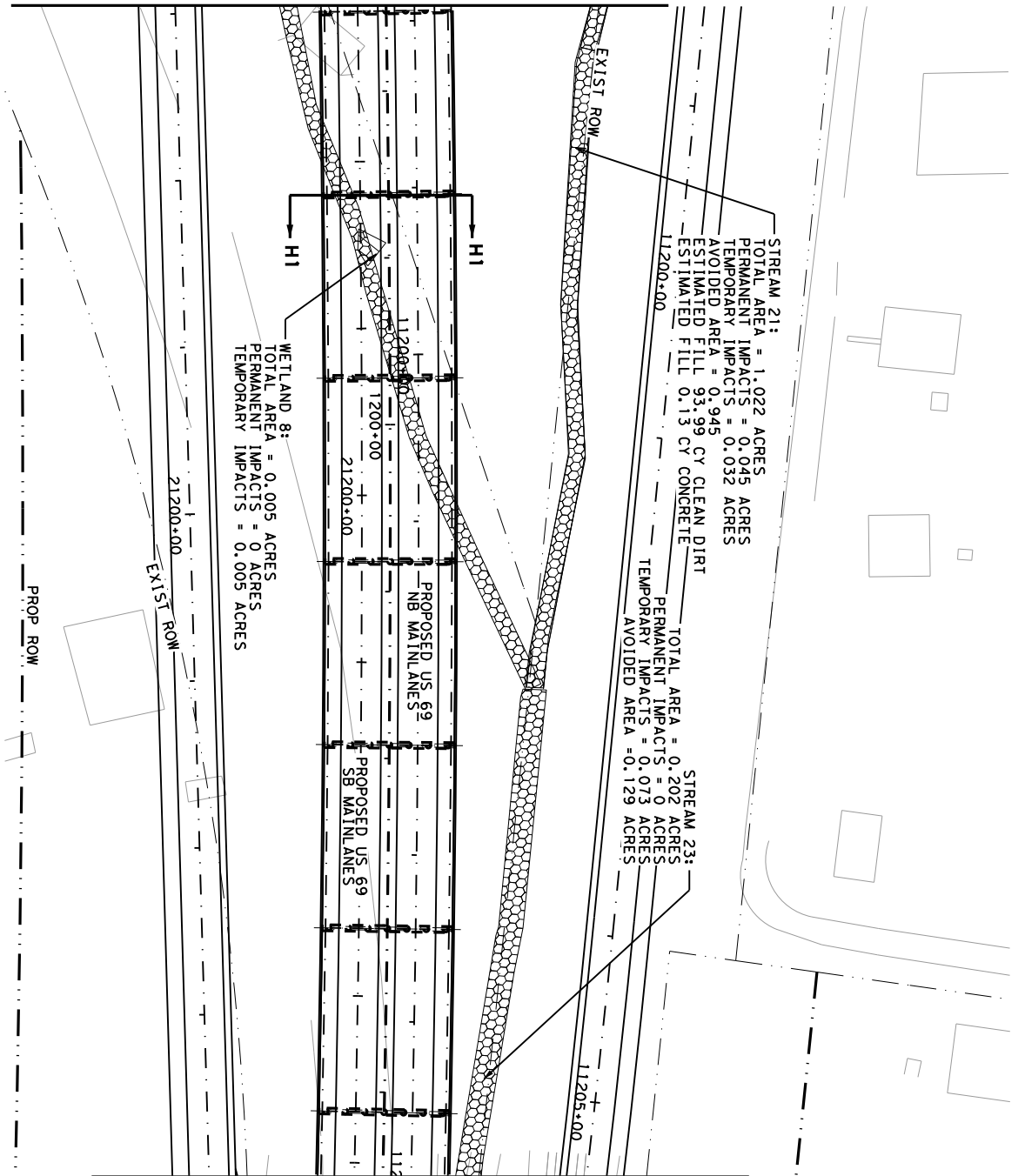
IMPACTS TO WATERS OF THE U.S.

DECEMBER 12, 2016

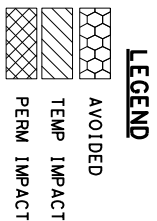
\$DATE\$ \$TIME\$

Pen Table File

MATCHLINE STA 1197+50

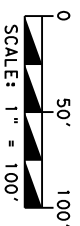


MATCHLINE STA 1204+50



**US 69**

SHEET 44 OF 53

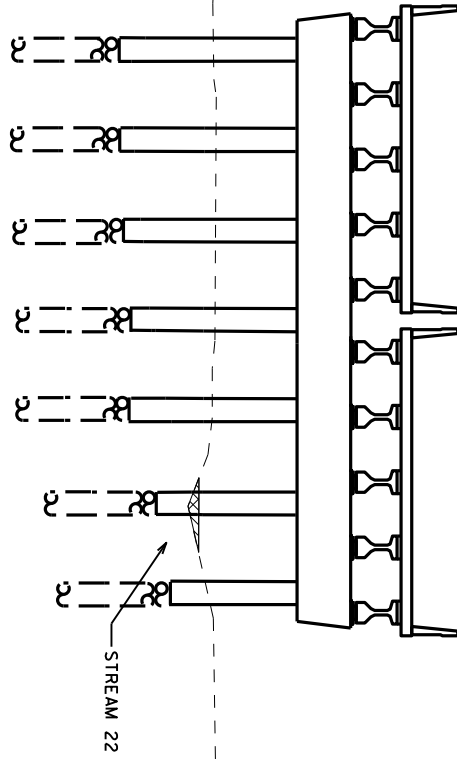


IMPACTS TO WATERS OF THE U.S.

DECEMBER 12, 2016




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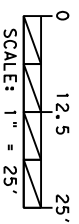
SECTION H1-H1  
(STREAM 22)

**LEGEND**

	AVOIDED
	TEMP IMPACT
	PERM IMPACT

**US 69**

SHEET 45 OF 53

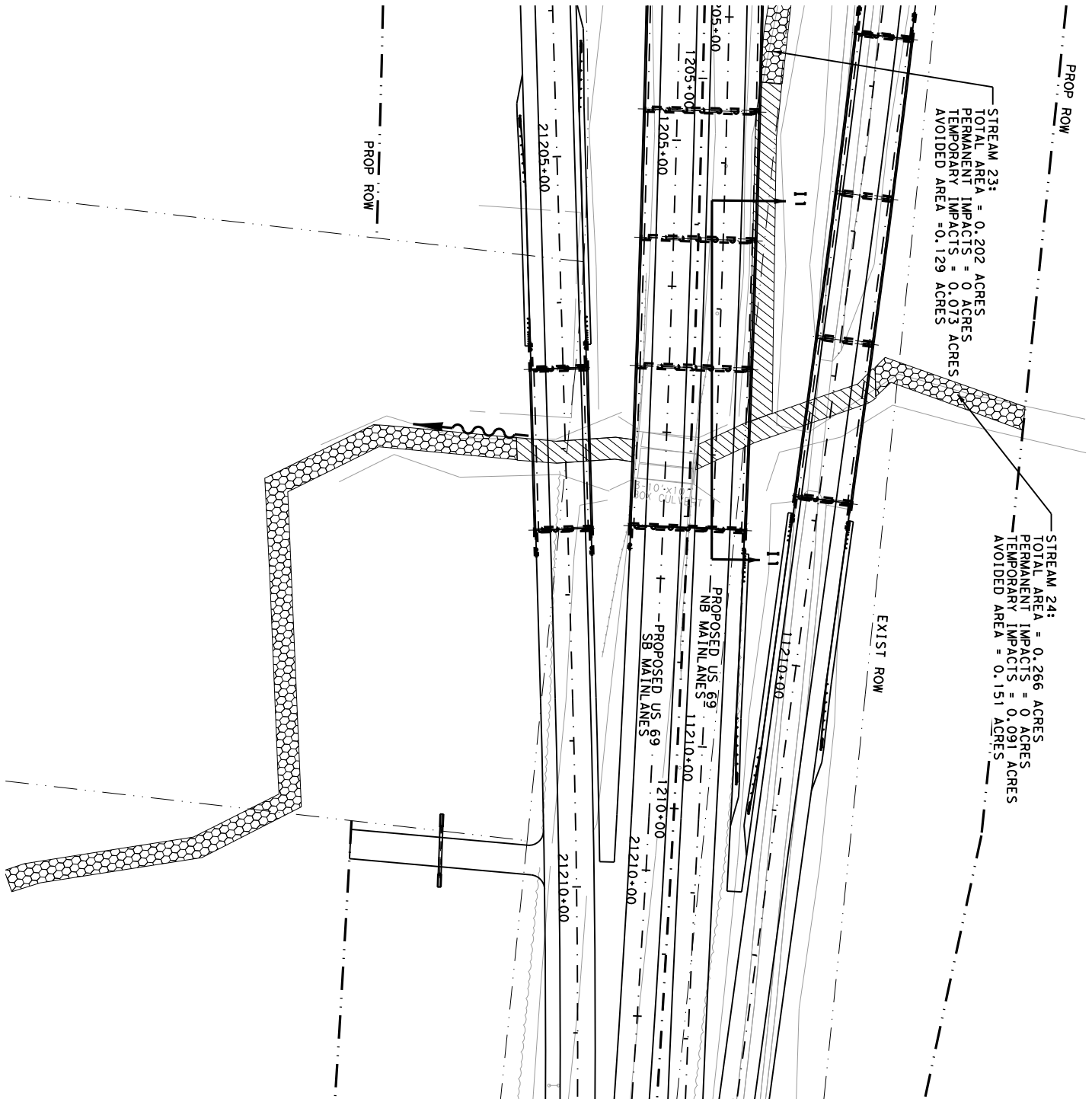


IMPACTS TO WATERS OF THE U.S.

DECEMBER 12, 2016

\$DATE\$ \$TIME\$

Pen Table File

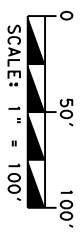


**LEGEND**

	AVOIDED
	TEMP IMPACT
	PERM IMPACT

**US 69**

SHEET 46 OF 53

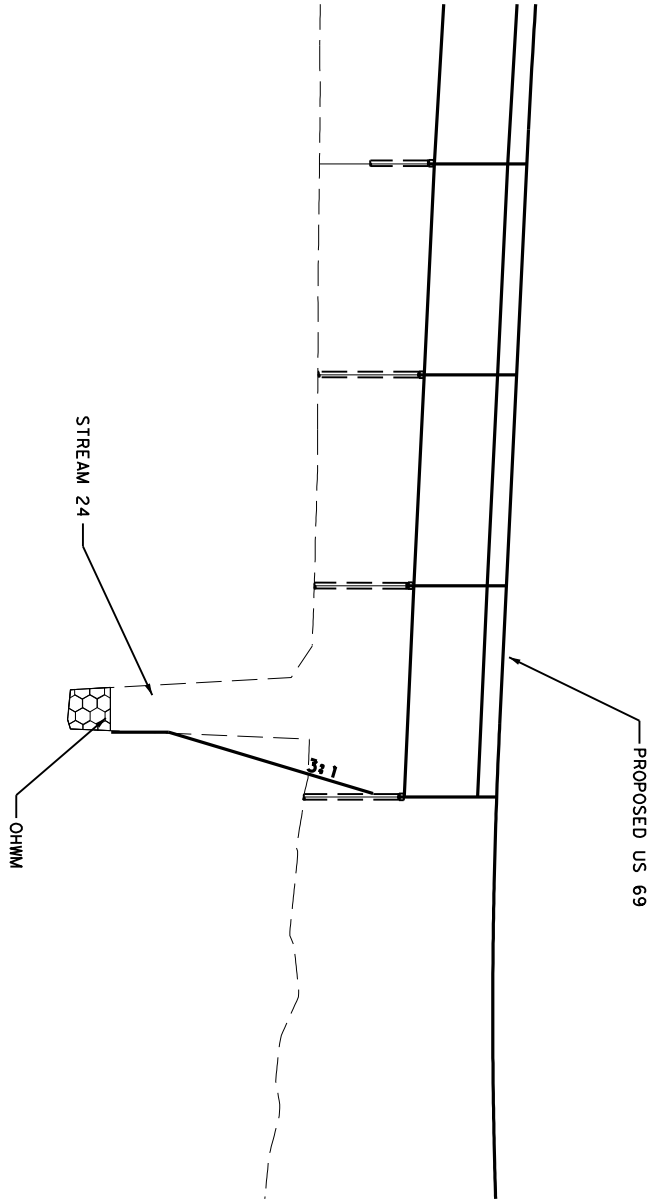


IMPACTS TO WATERS OF THE U.S.




DECEMBER 12, 2016

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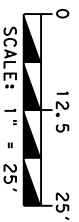


**SECTION 11-11**  
(STREAM 24)

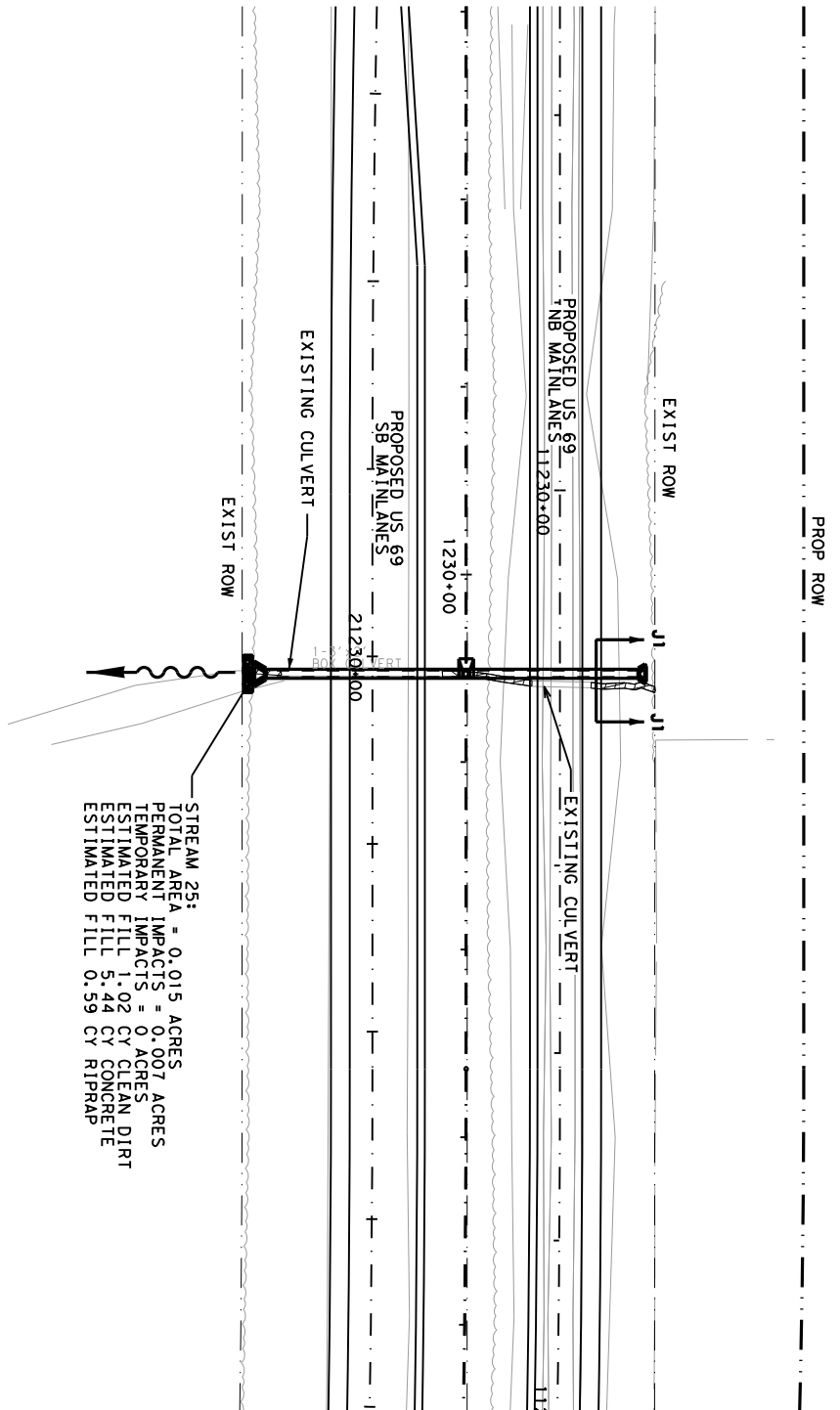
- LEGEND**
-  AVOIDED
  -  TEMP IMPACT
  -  PERM IMPACT

**US 69**

SHEET 47 OF 53



**IMPACTS TO WATERS OF THE U.S.**  
**DECEMBER 12, 2016**



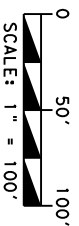
STREAM 25:  
 TOTAL AREA = 0.015 ACRES  
 PERMANENT IMPACTS = 0.007 ACRES  
 TEMPORARY IMPACTS = 0 ACRES  
 ESTIMATED FILL 1.02 CY CLEAN DIRT  
 ESTIMATED FILL 5.44 CY CONCRETE  
 ESTIMATED FILL 0.59 CY RIPRAP

**LEGEND**

	AVOIDED
	TEMP IMPACT
	PERM IMPACT

**US 69**

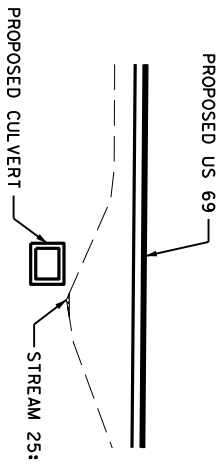
SHEET 48 OF 53






**IMPACTS TO WATERS OF THE U.S.**

**DECEMBER 12, 2016**



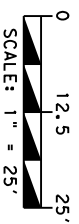


**SECTION J1-J1**  
(STREAM 254)

- LEGEND**
-  AVOIDED
  -  TEMP IMPACT
  -  PERM IMPACT

**US 69**

SHEET 49 OF 53

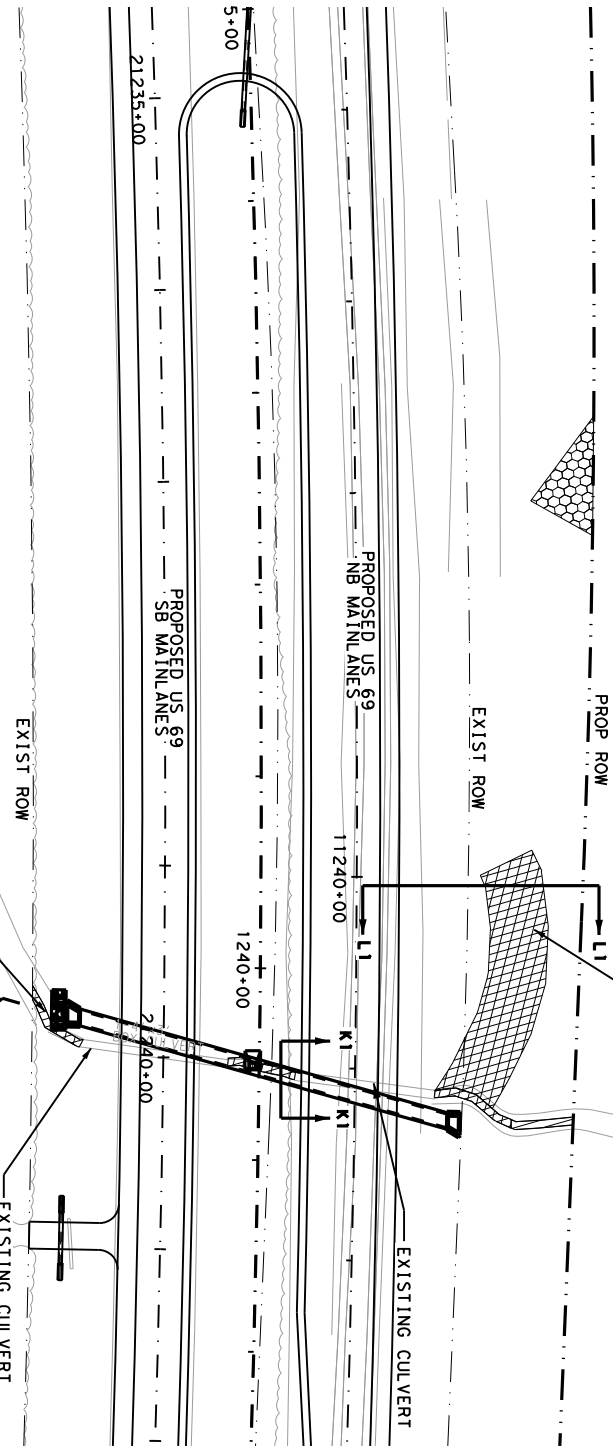


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POND 6:  
 TOTAL AREA = 0.023 ACRES  
 PERMANENT IMPACTS = 0 ACRES  
 TEMPORARY IMPACTS = 0 ACRES  
 AVOIDED = 0.023 ACRES

STREAM 26c:  
 TOTAL AREA = 0.084 ACRES  
 PERMANENT IMPACTS = 0.084 ACRES  
 TEMPORARY IMPACTS = 0 ACRES  
 ESTIMATED EXCAVATION 23.50 CY

STREAM 26:  
 TOTAL AREA = 0.028 ACRES  
 PERMANENT IMPACTS = 0.009 ACRES  
 TEMPORARY IMPACTS = 0.005 ACRES  
 ESTIMATED FILL 4.3 CY CLEAN DIRT  
 ESTIMATED FILL 2.52 CY CONCRETE  
 ESTIMATED FILL 0.74 CY RIPRAP

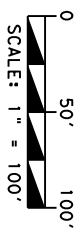


**LEGEND**

	AVOIDED
	TEMP IMPACT
	PERM IMPACT

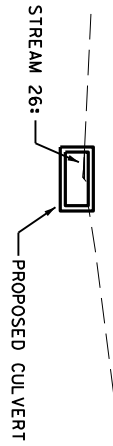
**US 69**

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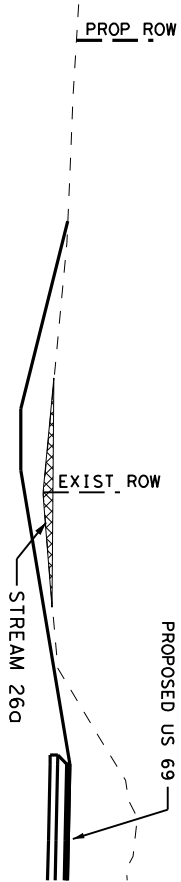


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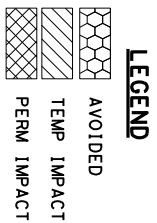
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**SECTION K1-K1**  
(STREAM 26)

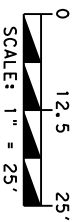


**SECTION L1-L1**  
(STREAM 26d)



**US 69**

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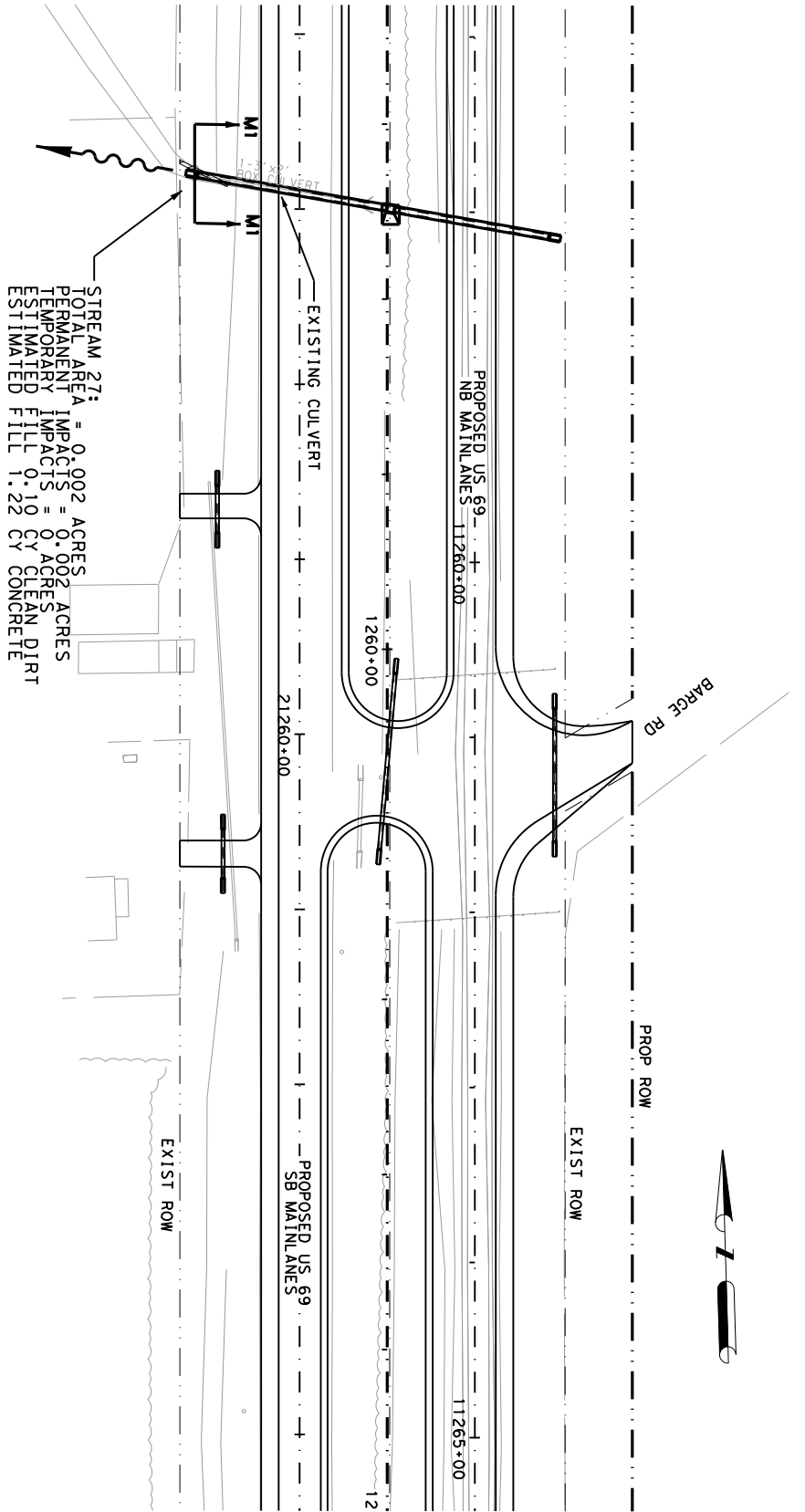


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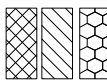
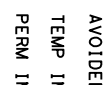

Pen Table File



STREAM 27:  
 TOTAL AREA = 0.002 ACRES  
 PERMANENT IMPACTS = 0.002 ACRES  
 TEMPORARY IMPACTS = 0 ACRES  
 ESTIMATED FILL 0.10 CY CLEAN DIRT  
 ESTIMATED FILL 1.22 CY CONCRETE

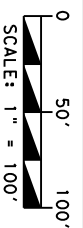


**LEGEND**

	AVOIDED
	TEMP IMPACT
	PERM IMPACT

**US 69**

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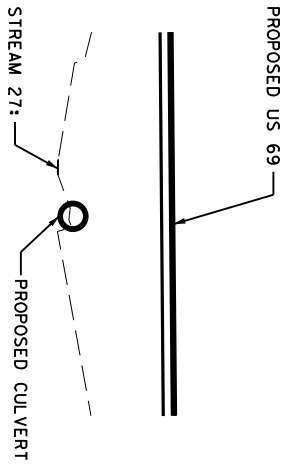


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\$DATE\$ \$TIME\$

Pen Table File

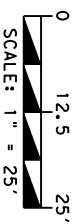


**SECTION M1-M1**  
(STREAM 27)

- LEGEND**
-  AVOIDED
  -  TEMP IMPACT
  -  PERM IMPACT

**US 69**

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