

# Floodplain Development Permit

## Doddridge County, WV Floodplain Management

This permit gives approval for the development/ project listed that impacts the FEMA-designated floodplain and/or floodway of Doddridge County, WV, pursuant to the rules and regulations established by all applicable Federal, State and local laws and ordinances, including the Doddridge County Floodplain Ordinance. This permit must be posted at the site of work as to be clearly visible and must remain posted during entirety of development.

**Permit: #18-530**

**Date Approved: November 5, 2018**

**Expires: November 5, 2019**

**Issued to: Antero Resources**

**POC: Rachel McKinney**

**Company Address: 535 White Oaks Blvd. Bridgeport, WV 26330**

**Project Address: Central Station Road**

**Firm: 54017C0120C**

**Lat/Long: 39.277764N, -80.811172W**

**Purpose of Development: Road Repairs**

**Issued by: George C. Eidel, CFM, OEM Director/Doddridge County FPM (or designee)**

**Date: November 5, 2018**

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For additional information regarding this permit, please contact  
Doddridge County Floodplain Manager at 304.873.2631, or via email at  
doddridgecountyfpm@gmail.com  
118 East Court Street; West Union, WV 26456

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**ANTERO RESOURCES**  
1615 WYNKOOP STREET  
DENVER, COLORADO 80202

**COPY**

Vendor Name	Vendor No.	Date	Check Number	Check Total
COUNTY COMMISSION OF DODDRIDGE COUN	43126	Nov-26-2018	194572	\$2,520.00

INV #	INV DATE	DESCRIPTION	AMOUNT	DISCOUNTS	NET AMOUNT
ML11262018	11/26/18	FLOODPLAIN PERMIT CENTRAL STATION R	2,520.00	0.00	2,520.00

FP# 18-530

DEC 3 18 1:08PM

**COPY**

**COPY**

**COPY**

TOTAL INVOICES PAID ==> 2,520.00 0.00 2,520.00

DETACH AND RETAIN FOR TAX PURPOSES

THIS CHECK HAS A COLORED FACE ON WHITE STOCK AND AN ARTIFICIAL WATERMARK ON THE BACK



**ANTERO RESOURCES**  
1615 WYNKOOP STREET  
DENVER, COLORADO 80202

**Wells Fargo**

Denver, CO

AP - 400

Check No. **194572**

11-24  
412

Void After 90 Days

CHECK NUMBER	DATE	PAY EXACTLY
194572	Nov-26-2018	\$2,520.00

PAY EXACTLY **\$2,520dols00cts**

Two Thousand Five Hundred Twenty Dollars and Zero Cents

TO THE ORDER OF

COUNTY COMMISSION OF DODDRIDGE COUN  
WEST VIRGINIA~118 EAST COURT STREET, ROOM 102  
WEST UNION, WV 26456

**COPY**

*[Handwritten Signature]*

**COPY**

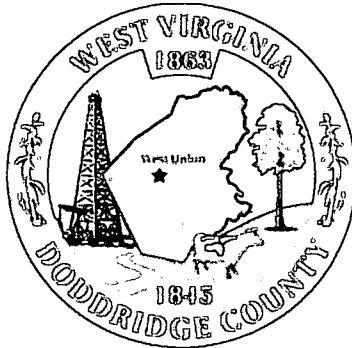
⑈ 194572⑈ ⑆041203824⑆

9647481952⑈

**FLOODPLAIN PERMIT #18-530**

Antero Resources, Central Station Rd Repairs, 39.277764N,-80.811172W /to/ 39.292472N,-80.830044W

<b>TASK</b>	<b>COMPLETE (DATE)</b>	<b>NOTES</b>
CHECK RECEIVED	12/3/18	
US ARMY CORP. ENGINEERS (USACE)		
US FISH & WILDLIFE SERVICES (USFWS)		
WV DEPT. NATURAL RESOURCES (WVDNR)		
WV DEPT. ENVIROMENTAL PROTECTION (WVDEP)		
STATE HISTORIC & PRESERVATION OFFICE (SHPO)		
OFFICE of LAND & STREAM (OLS)		
DATE OF COMMISSION READING	10/16/2018	
DATE AVAILABLE TO BE GRANTED	11/5/2018	
PERMIT GRANTED		
COMPLETE		



## **Doddridge County Floodplain Permits**

**(Week of October 15, 2018)**

Please take notice that on the (10<sup>th</sup>) of (October), 2018, Antero Resources filed an application for a Floodplain Permit (#18-530) to develop land located at or about **Central Station Road; Coordinates: 39.277764 N, -80.811172 W continuing to 39.292472 N, -80.8300044 W**. The Application is on file with the Floodplain Manager of the County and may be inspected or copied during regular business hours in accordance to WV Code Chapter 29B Freedom of Information, Article 1 Public Records and county policy and procedures. Any interested persons who desire to comment shall present the same in writing by **(November 5, 2018)** (20 calendar days after the announcement at the regularly scheduled Doddridge County Commission Meeting) delivered to the Floodplain Manager of the County at 105 Court Street, Suite #3, West Union, WV 26456. **This project is for road repairs**

  
**GEORGE C. EIDEL, CFM**

Doddridge County Floodplain Manager



Antero Resources  
535 White Oaks Blvd.  
Bridgeport, WV 26330  
Office 304.842.4100  
Fax 304.842.4102

October 9, 2018

Doddridge County Commission  
Attn: George Eidel, Doddridge County Floodplain Manager  
105 Court Street, Suite 3  
West Union, WV 26456

OCT10 18 2:47PM

Mr. Eidel:

Antero Resources Corporation would like to submit a Doddridge County Floodplain permit application for our *Central Station Road Repairs*. Our project is located in Doddridge County, where the site begins at coordinates 39.277764W, 80.811172W and continues to coordinates 39.292472N,-80.830044W.

Per the FIRM Maps #54017C0120C, and #54017C0115C this location is in the floodplain.

Attached you will find the following:

- Doddridge County Floodplain Permit Application
- WV Flood Tool Map
- FIRM Maps
- Design Plans

If you have any questions please feel free to contact me at (304) 842-4008.

Thank you in advance for your consideration.

Sincerely,

Rachel McKinney  
Environmental Specialist II  
Antero Resources Corporation

Enclosures



Permit: # 18-530  
Name: Central Station RD  
Repair  
Company: Antero

OCT10 13 2:47PM

# ***Doddridge County, WV***

## **Floodplain Development Permit Application**

This document is to be used for projects that impact/potentially impact the FEMA---designated floodplain and/or floodway of Doddridge County, WV pursuant to the rules and regulations established by all applicable Federal, State and local laws and ordinances, including the Doddridge County Floodplain Ordinance.

### **SECTION 1: GENERAL PROVISIONS (APPLICANT TO READ AND SIGN)**

1. No work may start until a permit is issued.
2. The permit may be revoked if any false statements are made herein.
3. If revoked, all work must cease until permit is re-issued.
4. Development shall not be used or occupied until a Certificate of Compliance is issued.
5. The permit will expire if no work is commenced within six months of issuance.
6. Applicant is hereby informed that other permits may be required to fulfill local, state, and federal requirements.
7. Applicant hereby gives consent to the Floodplain Administrator/Manager or his/her representative to make inspections to verify compliance.
8. I THE APPLICANT CERTIFY THAT ALL STATEMENTS HEREIN AND IN ATTACHMENTS TO THIS APPLICATION ARE, TO THE BEST OF MY KNOWLEDGE, TRUE AND ACCURATE.

APPLICANT'S SIGNATURE *L. Shelton*

DATE 10/9/18

Doddridge County Commercial/Industrial  
Floodplain Development Permit Application

**Applicant Information:**

*Please provide all pertinent data.*

<b>Applicant Information</b>		
<b>Responsible Company Name: Antero Resources Corporation</b>		
<b>Corporate Mailing Address: 1615 Wynkoop Street</b>		
<b>City: Denver</b>	<b>State: CO</b>	<b>Zip: 80202</b>
<b>Corporate Point of Contact (POC):</b>		
<b>Corporate POC Title:</b>		
<b>Corporate POC Primary Phone:</b>		
<b>Corporate POC Primary Email:</b>		
<b>Corporate FEIN:</b>	<b>Corporate DUNS:</b>	
<b>Corporate Website: <a href="http://www.anteroresources.com">www.anteroresources.com</a></b>		
<b>Local Mailing Address: 535 White Oaks Blvd</b>		
<b>City: Bridgeport</b>	<b>State: WV</b>	<b>Zip: 26330</b>
<b>Local Project Manager (PM):</b>		
<b>Local PM Primary Phone:</b>		
<b>Local PM Secondary Phone:</b>		
<b>Local PM Primary Email:</b>		
<b>Person Filing Application: Rachel McKinney</b>		
<b>Applicant Title: Environmental Specialist II</b>		
<b>Applicant Primary Phone: (304) 842-4008</b>		
<b>Applicant Secondary Phone: (304) 641-2396</b>		
<b>Applicant Primary Email: <a href="mailto:rmckinney@anteroresources.com">rmckinney@anteroresources.com</a></b>		





Doddridge County Commercial/Industrial  
Floodplain Development Permit Application

**Proposed Development:**

*Please check all elements of the proposed project that apply.*

**DESCRIPTION OF WORK (CHECK ALL APPLICABLE BOXES)**

**A. STRUCTURAL DEVELOPMENT**

<u>ACTIVITY</u>		<u>STRUCTURAL TYPE</u>	
<input type="checkbox"/>	New Structure	<input type="checkbox"/>	Residential (1 – 4 Family)
<input type="checkbox"/>	Addition	<input type="checkbox"/>	Residential (more than 4 Family)
<input type="checkbox"/>	Alteration	<input type="checkbox"/>	Non-residential (floodproofing)
<input type="checkbox"/>	Relocation	<input type="checkbox"/>	Combined Use (res. & com.)
<input type="checkbox"/>	Demolition	<input type="checkbox"/>	Replacement
<input type="checkbox"/>	Manufactured/Mobil Home		

**B. OTHER DEVELOPMENT ACTIVITIES:**

- Fill                     Mining                     Drilling                     Pipelining
- Grading
- Excavation (except for STRUCTURAL DEVELOPMENT checked above)
- Watercourse Alteration (including dredging and channel modification)
- Drainage Improvements (including culvert work)
- Road, Street, or Bridge Construction
- Subdivision (including new expansion)
- Individual Water or Sewer System
- Other (please specify)

Fixing base failures and potholes

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Doddridge County Commercial/Industrial  
Floodplain Development Permit Application

**Development Site/Property Information:**

*Please provide physical description of the site/property, along with pertinent ownership (surface and mineral rights) data as applicable. Attach appropriate maps from the WV Flood Tool showing location of proposed development. Use additional copies of this page if development spans multiple property boundaries. Designate each property by number (i.e. Property 1 of 1, Property 2 of 7, etc.)*

Property Designation:   0   of   0  

<b>Site/Property Information:</b>		
Legal Description: NA (All repairs will be within the WV State Right-of-Way on CR11&736)		
Physical Address/911 Address:		
Decimal Latitude/Longitude:		
DMS Latitude/Longitude:		
District:	Map:	Parcel:
Land Book Description:		
Deed Book Reference:		
Tax Map Reference:		
Existing Buildings/Use of Property:		

<b>Floodplain Location Data: (to be completed by Floodplain Manager or designee)</b>			
Community:	Number:	Panel:	Suffix:
Location (Lat/Long):		Approximate Elevation:	
		Estimated BFE:	
Is the development in the floodway? <input type="checkbox"/> Yes <input type="checkbox"/> No		Is the development in the floodplain? <input type="checkbox"/> Yes <input type="checkbox"/> No    Zone: _____	
Notes:			

Doddridge County Commercial/Industrial  
Floodplain Development Permit Application

**Property Owner Data:**

*Please provide data on current site/property landowner(s), both surface and mineral rights (as applicable). Use additional copies of this page as needed. Designate each page in relation to each property listed above.*

Property Designation: <u>  0  </u> of <u>  0  </u>
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<b>Property Owner Data:</b>		
Name of Primary Owner (PO): NA		
PO Address:		
City:	State:	Zip:
PO Primary Phone:		
PO Secondary Phone:		
PO Primary Email:		

<b>Surface Rights Owner Data:</b>		
Name of Primary Owner (PO):		
PO Address:		
City:	State:	Zip:
PO Primary Phone:		
PO Secondary Phone:		
PO Primary Email:		

<b>Mineral Rights Owner Data: (As Applicable)</b>		
Name of Primary Owner (PO):		
PO Address:		
City:	State:	Zip:
PO Primary Phone:		
PO Secondary Phone:		
PO Primary Email:		

Doddridge County Commercial/Industrial  
Floodplain Development Permit Application

**Contractor Data:**

*Please provide all pertinent data for contractors and sub---contractors that may be participating in this project. Use additional copies of this page as needed. Designate each page in relation to each property listed above.*

**Property Designation:** \_\_\_ of \_\_\_

<b>Contractor/Sub-Contractor (C/SC) Information:</b>		
C/SC Company Name: NA		
C/SC WV License Number:		
C/SC FEIN:	C/SC DUNS:	
Local C/SC Point of Contact (POC):		
Local C/SC POC Title:		
C/SC Mailing Address:		
City:	State:	Zip-Code:
Local C/SC Office Phone:		
Local C/SC POC Phone:		
Local C/SC POC E-Mail:		

<b>Engineer Firm Information:</b>		
Engineer Firm Name:		
Engineer WV License Number:		
Engineer Firm FEIN:	Engineer Firm DUNS:	
Engineer Firm Primary Point of Contact (POC):		
Engineer Firm Primary POC Title:		
Engineer Firm Mailing Address:		
City:	State:	Zip-Code:
Engineer Firm Office Phone:		
Engineer Firm Primary POC Phone:		
Engineer Firm Primary POC E-Mail:		

## Adjacent and/or Affected Landowners Data

*Please provide data for all adjacent and/or affected surface owners (both up and down stream) whose property may be impacted by proposed development as demonstrated by a floodplain study or survey. Use additional copies of this page as needed.*

<b>Adjacent Property Owner Data: Upstream</b>		
Name of Primary Owner (PO): NA		
Physical Address:		
City:	State:	Zip:
PO Primary Phone:		
PO Secondary Phone:		
PO Primary Email:		

<b>Adjacent Property Owner Data: Upstream</b>		
Name of Primary Owner (PO):		
Physical Address:		
City:	State:	Zip:
PO Primary Phone:		
PO Secondary Phone:		
PO Primary Email:		

<b>Adjacent Property Owner Data: Downstream</b>		
Name of Primary Owner (PO):		
Physical Address:		
City:	State:	Zip:
PO Primary Phone:		
PO Secondary Phone:		
PO Primary Email:		

<b>Adjacent Property Owner Data: Downstream</b>		
Name of Primary Owner (PO):		
Physical Address:		
City:	State:	Zip:
PO Primary Phone:		
PO Secondary Phone:		
PO Primary Email:		

## Site Plan

**A Site Plan is an accurate and detailed map of the proposed development for this project.** It shows the size, shape, location and special features of the project property, and the size and location of any development planned to the property, especially as that development will impact the floodplain and/or floodway. Site plans show what currently exists on the project property, and any changes or improvements you are proposing to make. **A certified and licensed engineering firm should complete site plans.**

### **A SITE PLAN MUST CONTAIN THE FOLLOWING INFORMATION:**

1. Legal description of the parcel, north arrow and scale
2. All property lines and their dimensions
3. Names of adjacent roads, location of driveways
4. Location of sloughs, tributaries, streams, rivers, wetlands, ponds, and lakes, with setbacks indicated, and including FEMA floodplain data based on most updated FIRM.
5. Location, size, shape of all buildings, existing and proposed, with elevation of lowest floor indicated.
6. Location and dimensions of existing or proposed on-site sewage systems.
7. Location of all propane tanks, fuel tanks or other liquid storage tanks whether above ground or below ground level.
8. Location and dimensions of any proposed pipeline placement(s) into floodplain/floodway.
9. Location and dimensions of any roadway development into floodplain/floodway. *(Includes initial development access roads)*
10. Location and dimensions of any bridge and/or culvert development into floodplain/floodway.
11. Location and dimensions of any storage yard or facility into the floodplain/floodway.
12. Location of any existing utilities and/or proposed utility placement and/or displacement.
13. Location, dimensions and depth of any existing or proposed fill on site.
14. A survey showing the **existing ground elevations** of at least location on the building site. **ELEVATION NOTE:** All vertical datum will reference either NGVD 29 or NAVD 88. Assumed datum will not be acceptable unless the property is located in an area where vertical datum has not been published. For those areas where vertical datum has not been established, a site plan with contours, elevations using assumed datum, high water marks and existing water levels of sloughs, rivers, lakes or streams and proposed lowest floor elevation.

## Applicant

Please read print name, sign and date below:

- I certify that I am authorized to submit this application for the primary project developer.
- I certify that the information included in this application is to the best of my knowledge true and complete.
- I certify that all required Federal, State, and local permits required by law and/or ordinance for the above described development of this project have been properly attained, are current and valid, and must be presented with this application before a Doddridge County Floodplain Permit may be issued.
- I understand that if in the course of the development project additional permits become required that were not needed during the initial proposal, the primary developer must notify the Doddridge County Floodplain Manager within 48 hours of such need, and that a "Stop Work" order may be issued for all project work directly impacting the floodplain or floodway, until such time the required additional permits are acquired.
- I understand that once the floodplain permit is submitted, the application will be entered into official public record at the next regularly scheduled Doddridge County Commission meeting after the date of submittal.
- I understand that from the date of submittal of the fully completed permit application, the Doddridge County Floodplain Manager has ninety (90) days to make a determination to either grant or deny said permit application. During this approval period, the Doddridge County Floodplain Manager may, at his or her discretion, conduct a review and/or additional study of provided documentation by means of an independent engineering firm. All costs associated with said review and/or study must be reimbursed to the County before issuance of approved permit.
- I understand that during the approval period, the Doddridge County Floodplain Manager or designee may at his or her discretion conduct site visits and document conditions of proposed development pursuant to the permit application.
- I understand that once the Floodplain Permit is granted, the permit will be entered into official public record at the next scheduled Doddridge County Commission meeting after the date of issuance. Appeals to the permit may be made no later than twenty (20) days after said issuance. If a valid appeal is submitted, as determined by the Doddridge County Floodplain Manager, a "Stop Work" order will be issued for all project development directly involving the floodplain or floodway. A public hearing by the Doddridge County Appeals Board will be scheduled no less than ten (10) days after the next regularly scheduled Doddridge County Commission meeting.
- I understand that all decisions of the Doddridge County Appeals Board shall be final.
- **I understand issuance of a Floodplain Permit authorizes me to proceed with construction as proposed. A Certificate of Compliance is required upon substantial completion of the project.**
- In signing this application, the primary developer hereby grants the Doddridge County Floodplain Manager or designee the right to enter onto the above---described location to inspect the development work proposed, in progress, and/or completed.
- I understand that if I do not follow exactly the site---plan submitted and approved by this permit that a "Stop Work" order may be issued by the Doddridge County Floodplain Manager and that I must stop all construction immediately until discrepancies of actual work vs. proposed work is resolved.

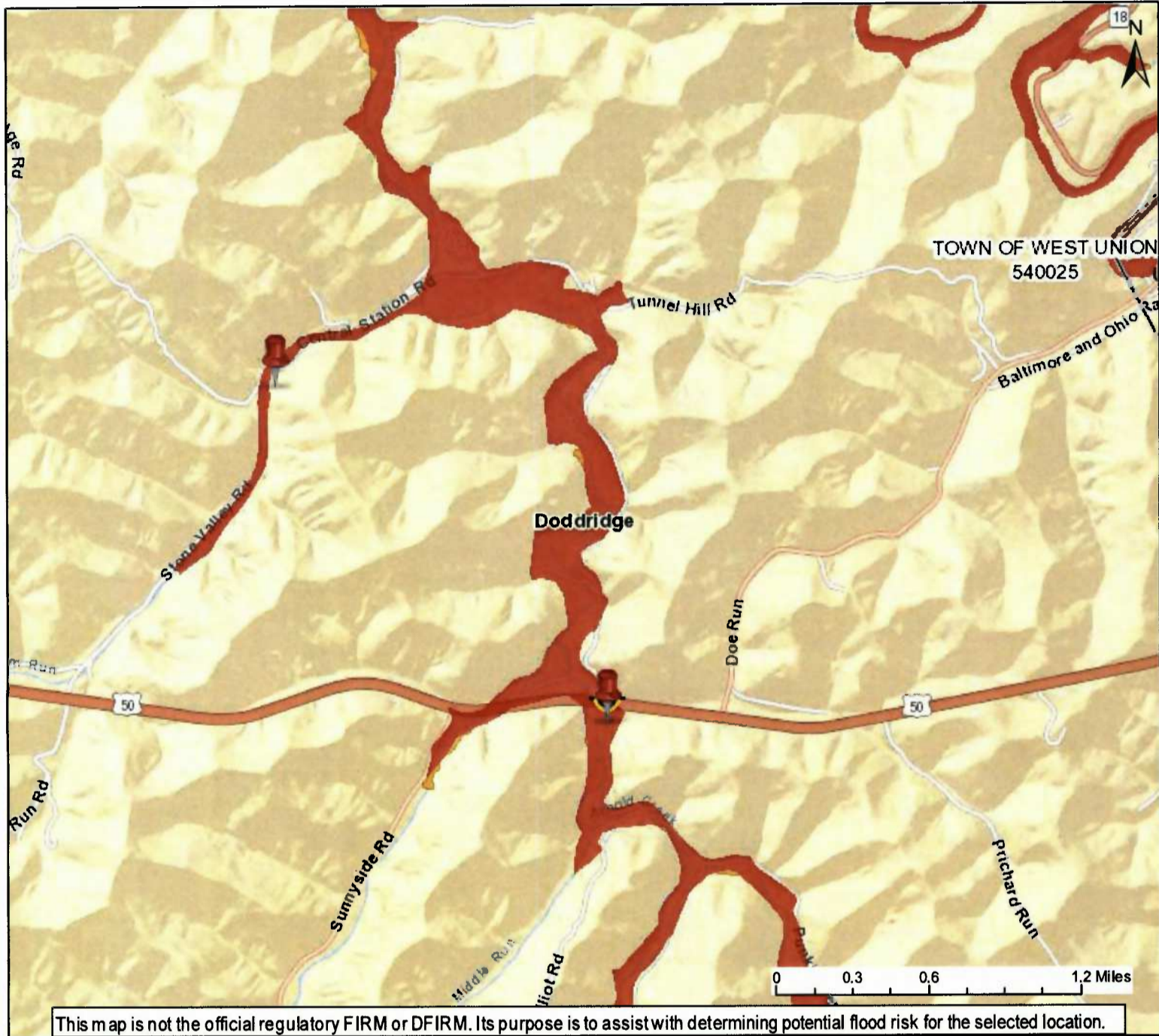
Applicant Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Applicant Printed Name: \_\_\_\_\_

*L. Shelton Barger, Jr.*  
L. Shelton Barger, Jr.

# WV Flood Map



Map created on 10/9/2018

**+** Flood Info Location

**User Notes:**

**FEMA Effective Floodplain**

- Floodway
- Flood Hazard Zone
- Advisory Zone
- A or Updated Zone AE

**Disclaimer:**

The online map is for use in administering the National Flood Insurance Program. It does not necessarily identify all areas subject to flooding, particularly from local drainage sources of small size. Refer to the official Flood Insurance Study (FIS) for detailed flood elevation data in flood profiles and data tables. WV Flood Tool (<https://www.MapWV.gov/flood>) is supported by FEMA, WV NFIP Office, and WV GIS Technical Center.

**Flood Hazard Area:**  
Location is **WITHIN** the FEMA 100-year floodplain.

**Flood Hazard Zone:** A

**Stream:** Arnold Creek

**Watershed (HUC8):** Little Musringum-Middle Island (50302)

**FEMA Flood Map:** 54017C0120C **EFF:** 10/4/2011

**Elevation:** About 827 ft (Source: SAMS 2003)

**Community Name:** Doddridge County

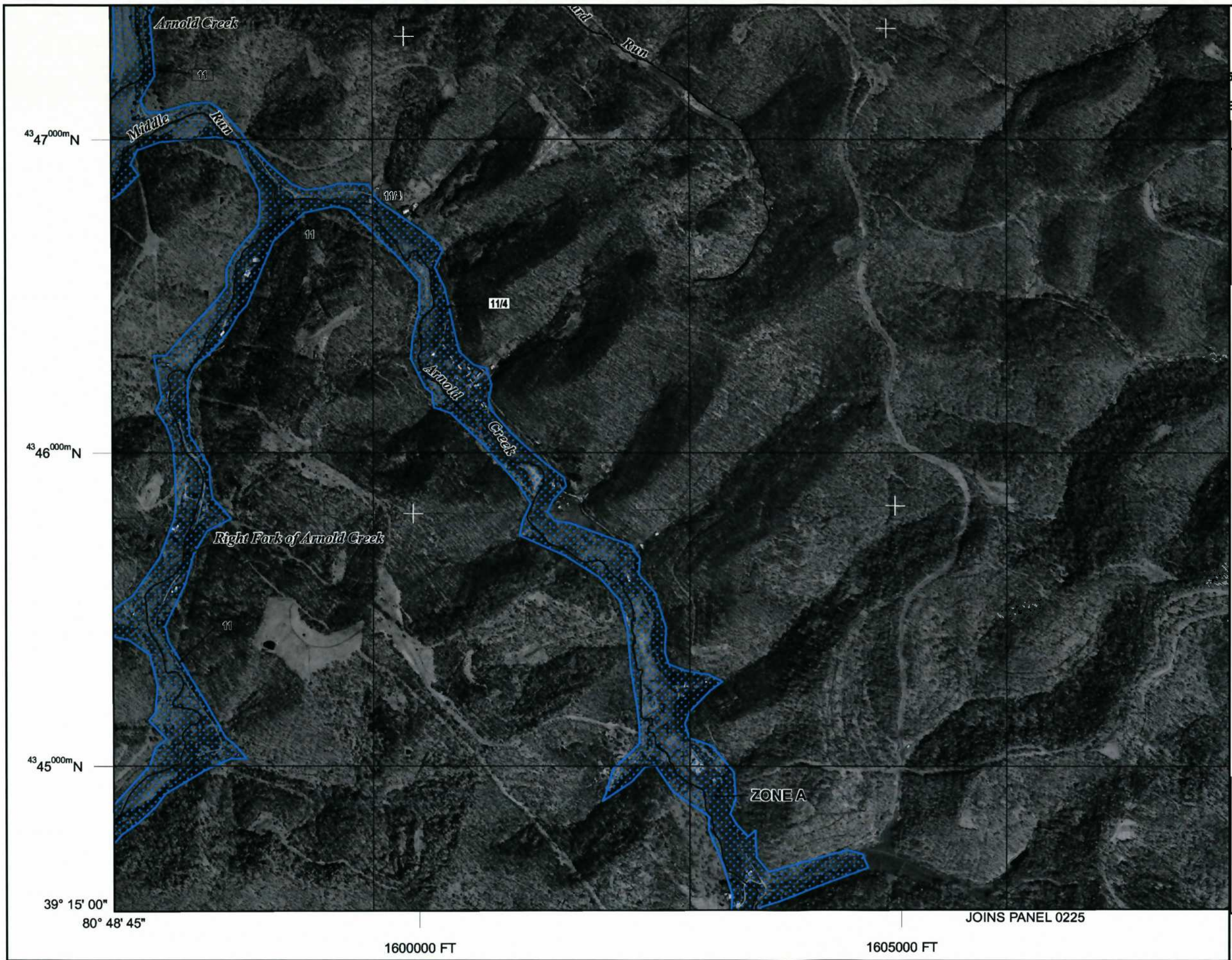
**Community ID:** 540024

**Location (long, lat):** (-80.811207, 39.277759)

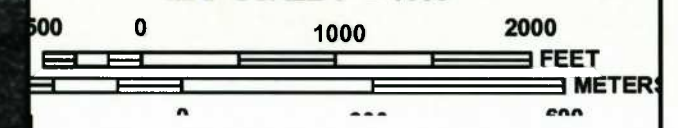
**Parcel ID:** No Parcel

**Address:** N/A





MAP SCALE 1" = 1000'



NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0120C

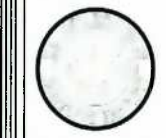
**FIRM**  
**FLOOD INSURANCE RATE MAP**  
**DODDRIDGE COUNTY,**  
**WEST VIRGINIA**  
**AND INCORPORATED AREAS**

PANEL 120 OF 325  
 (SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
DODDRIDGE COUNTY	540024	0120	C
WEST UNION, TOWN OF	540025	0120	C

Notice to User: The **Map Number** shown below should be used when placing map orders; the **Community Number** shown above should be used on insurance applications for the subject community.



**MAP NUMBER**  
**54017C0120C**  
**MAP REVISED**  
**OCTOBER 4, 2011**

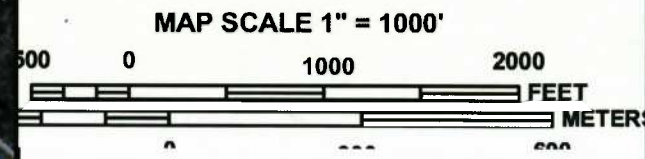
Federal Emergency Management Agency

JOINS PANEL 0225

160000 FT

160500 FT

This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT On-Line. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For the latest product information about National Flood Insurance Program flood maps check the FEMA Flood Map Store at [www.msc.fema.gov](http://www.msc.fema.gov)



**DODDRIDGE COUNTY  
UNINCORPORATED AREAS  
540024**

**NATIONAL FLOOD INSURANCE PROGRAM**

PANEL 0120C

**FIRM**  
**FLOOD INSURANCE RATE MAP**  
**DODDRIDGE COUNTY,**  
**WEST VIRGINIA**  
**AND INCORPORATED AREAS**

PANEL 120 OF 325  
 (SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
DODDRIDGE COUNTY	540024	0120	C
WEST UNION, TOWN OF	540025	0120	C

Notice to User: The **Map Number** shown below should be used when placing map orders; the **Community Number** shown above should be used on insurance applications for the subject community.

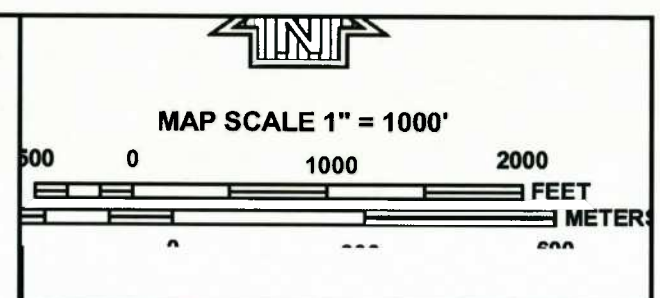


**MAP NUMBER**  
**54017C0120C**  
**MAP REVISED**  
**OCTOBER 4, 2011**

Federal Emergency Management Agency

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**DODDRIDGE COUNTY  
UNINCORPORATED AREAS  
540024**



PANEL 0115C

**FIRM**  
FLOOD INSURANCE RATE MAP  
DODDRIDGE COUNTY,  
WEST VIRGINIA  
AND INCORPORATED AREAS

**PANEL 115 OF 325**  
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
DODDRIDGE COUNTY	540024	0115	C

Notice to User: The Map Number shown below should be used when placing map orders; the Community Number shown above should be used on insurance applications for the subject community.

**MAP NUMBER**  
54017C0115C  
**MAP REVISED**  
OCTOBER 4, 2011  
 Federal Emergency Management Agency

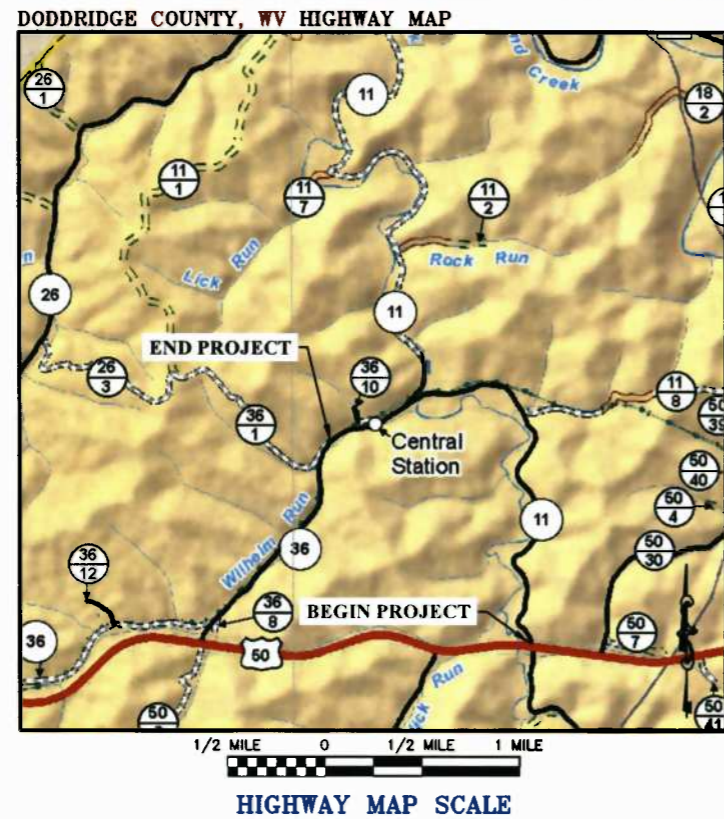
290000 FT

JOINS PANEL 0120

285000 FT

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PLOT DATE/TIME: 9/27/2018 5:19 PM  
 CAD FILE: R:\030-3435 - CENTRAL STATION RD - ANTERO RESOURCES\Drawing\Road Improvements\3435-COVER-CR.dwg



HIGHWAY MAP SCALE

**ROADWAY IMPROVEMENT COORDINATES**

BEGINNING	END
LAT: 39° 16' 39.95" (39.27776°)	LAT: 39° 17' 32.90" (39.29247°)
LONG: 80° 48' 40.22" (80.81117°)	LONG: 80° 49' 48.16" (80.83004°)
WV83 - NF N 300553.325 ft	WV83 - NF N 291425.758 ft
WV83 - NF E 1031383.947 ft	WV83 - NF E 1592084.443 ft
UTM - 17 N 4349164.115 m	UTM - 17 N 4349246.876 m
UTM - 17 E 343777.420 m	UTM - 17 E 514656.358 m

**ONE CALL UTILITY SYSTEM CONTACT INFO**



CONTRACTOR SHALL NOTIFY THE ONE-CALL SYSTEM OF THE INTENDED EXCAVATION OR DEMOLITION NOT LESS THAN FORTY-EIGHT (48) HOURS, EXCLUDING SATURDAYS, SUNDAYS AND LEGAL FEDERAL OR STATE HOLIDAYS, NOR MORE THAN TEN (10) WORK DAYS PRIOR TO THE BEGINNING OF SUCH WORK.

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**THRASHER**  
 THE THRASHER GROUP INC.  
 600 WHITE OAKS BOULEVARD, BRIDGEPORT, WV 26330  
 PHONE (304) 624-4108 • FAX (304) 624-7831



ANTERO RESOURCES  
 ROAD IMPROVEMENT PLANS FOR  
 CENTRAL STATION ROAD (CR 11)  
 DODDRIDGE COUNTY, WEST VIRGINIA  
 TITLE SHEET

PROJECT No.  
 101-030-3435  
 SHEET No.  
 1

# ANTERO RESOURCES ROAD IMPROVEMENT PLANS FOR CENTRAL STATION ROAD (CR 11) CENTRAL DISTRICT DODDRIDGE COUNTY, WV SEPTEMBER 2018

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**NOTE:**  
 THE PROJECT SHALL HAVE ZERO ENVIRONMENTAL IMPACTS.

**CONTACT INFORMATION**

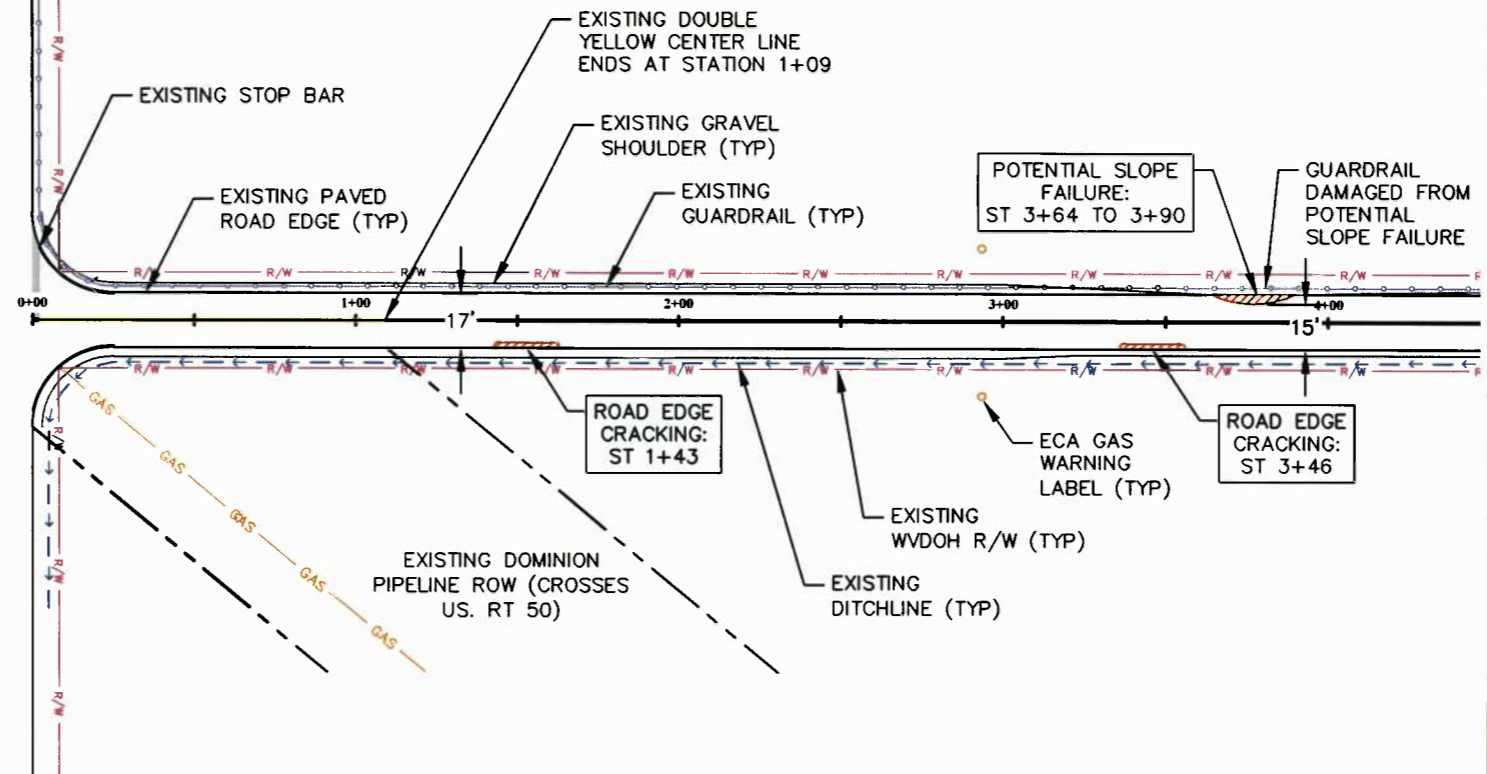
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- APPROVED FOR BID      DATE: \_\_\_\_\_ BY: \_\_\_\_\_
- APPROVED FOR CONSTRUCTION      DATE: \_\_\_\_\_ BY: \_\_\_\_\_

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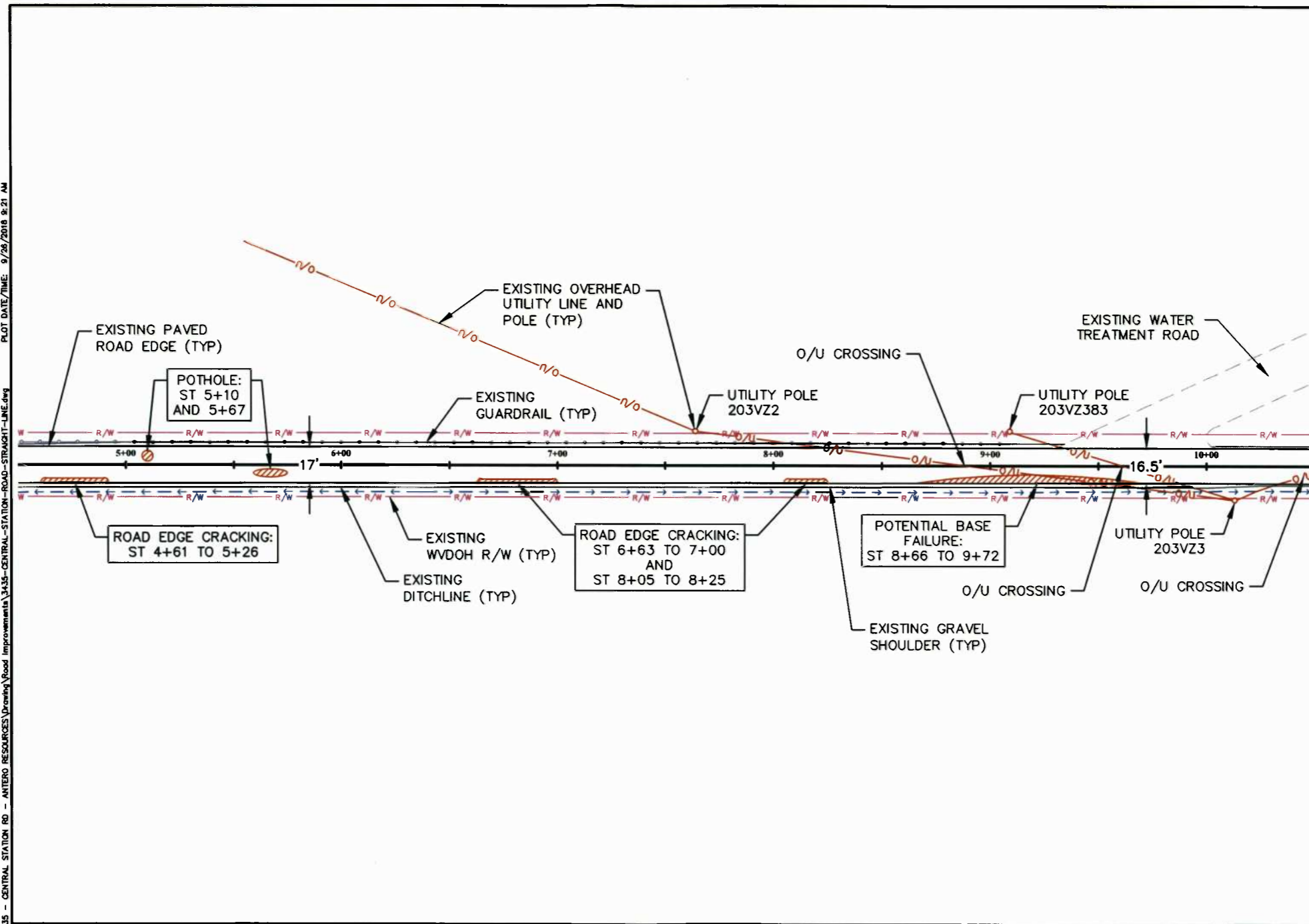
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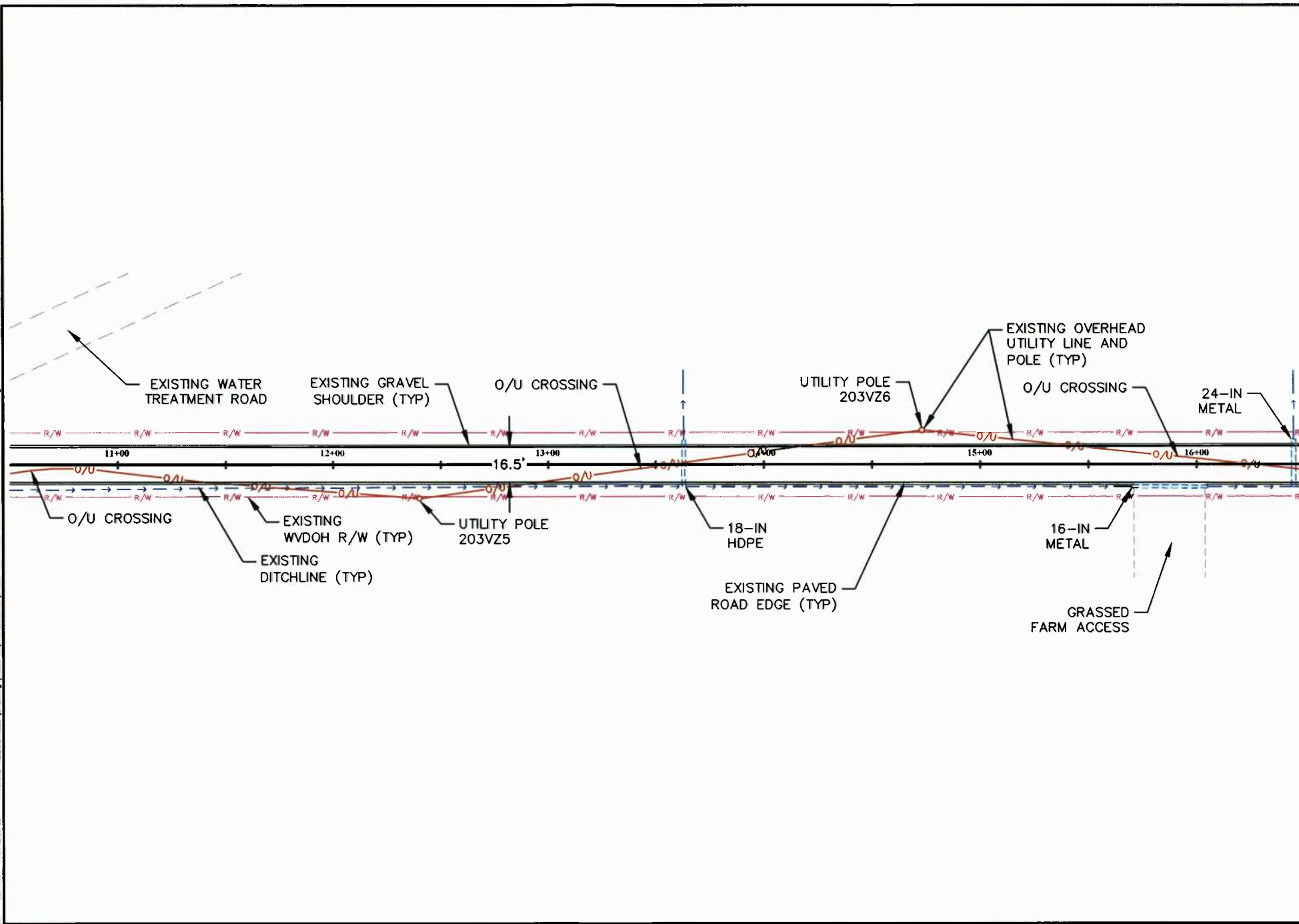
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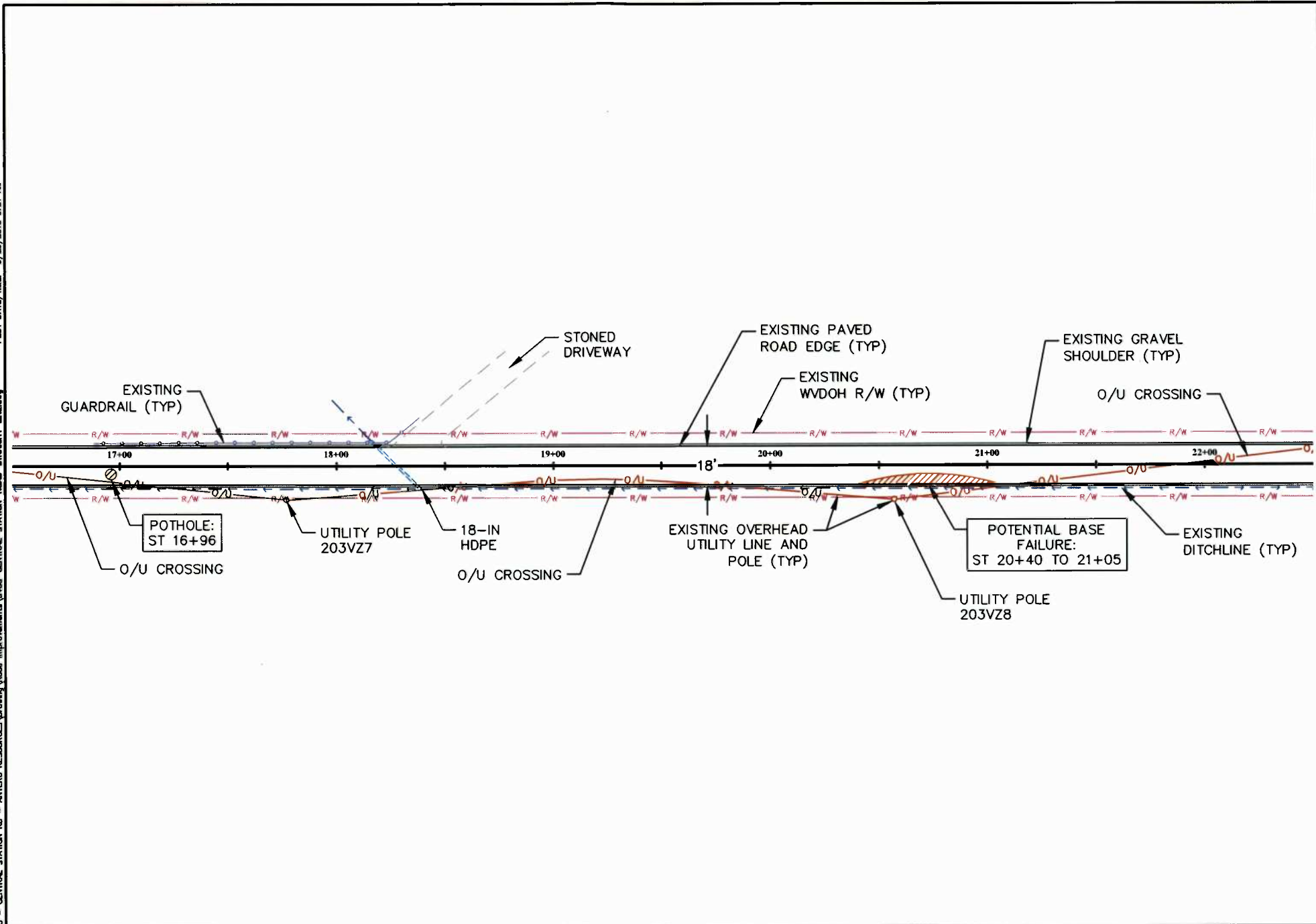
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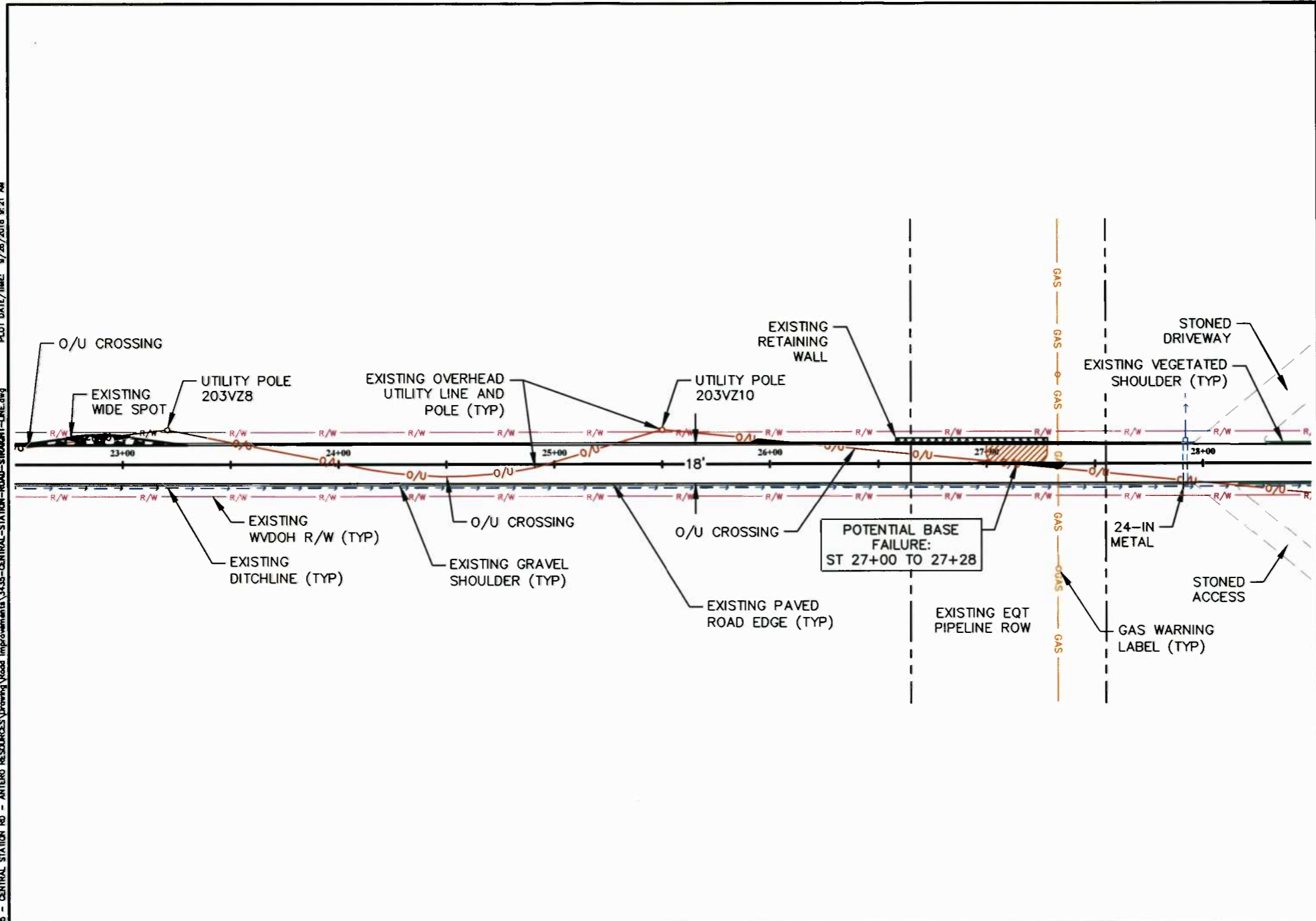
  
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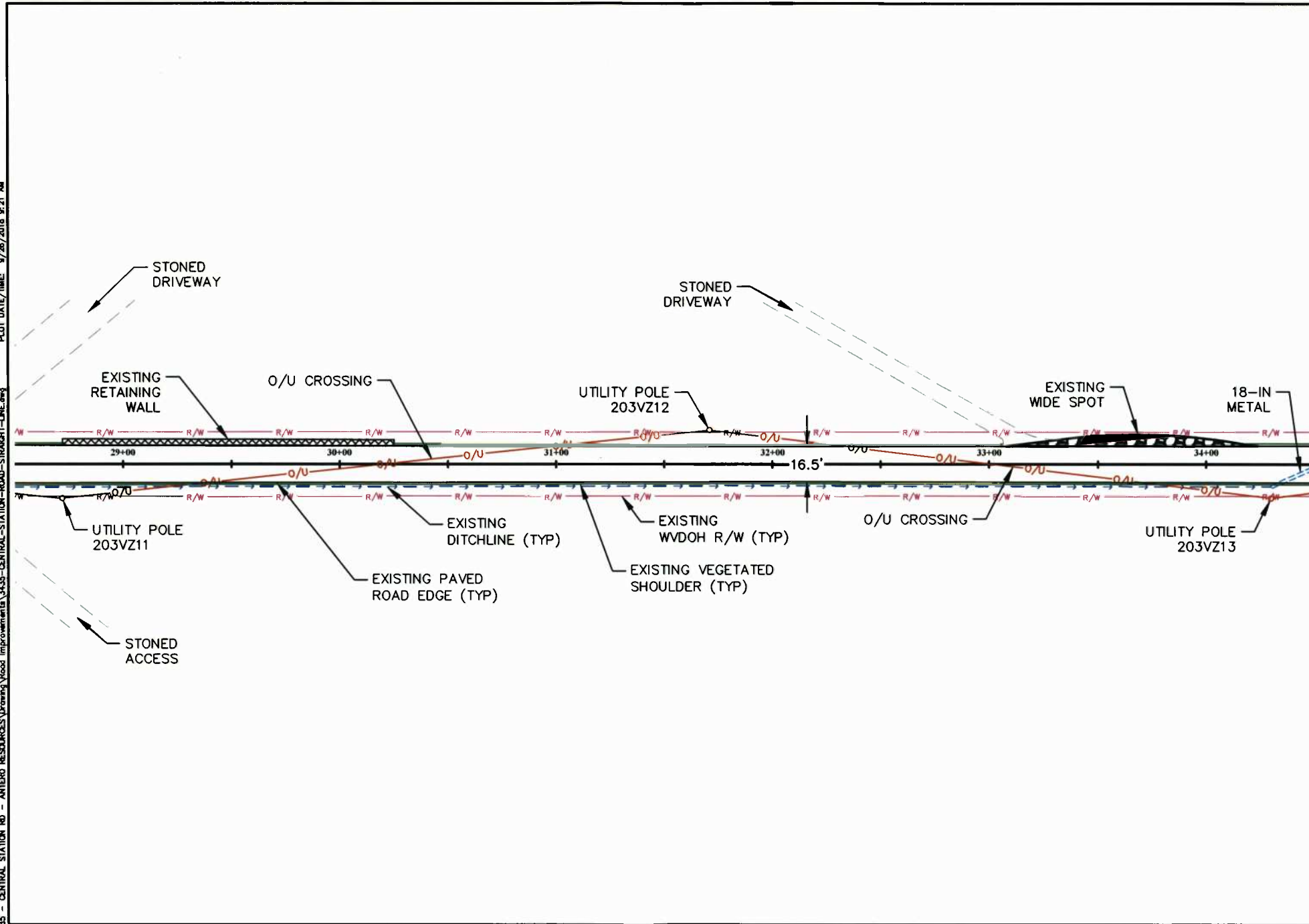


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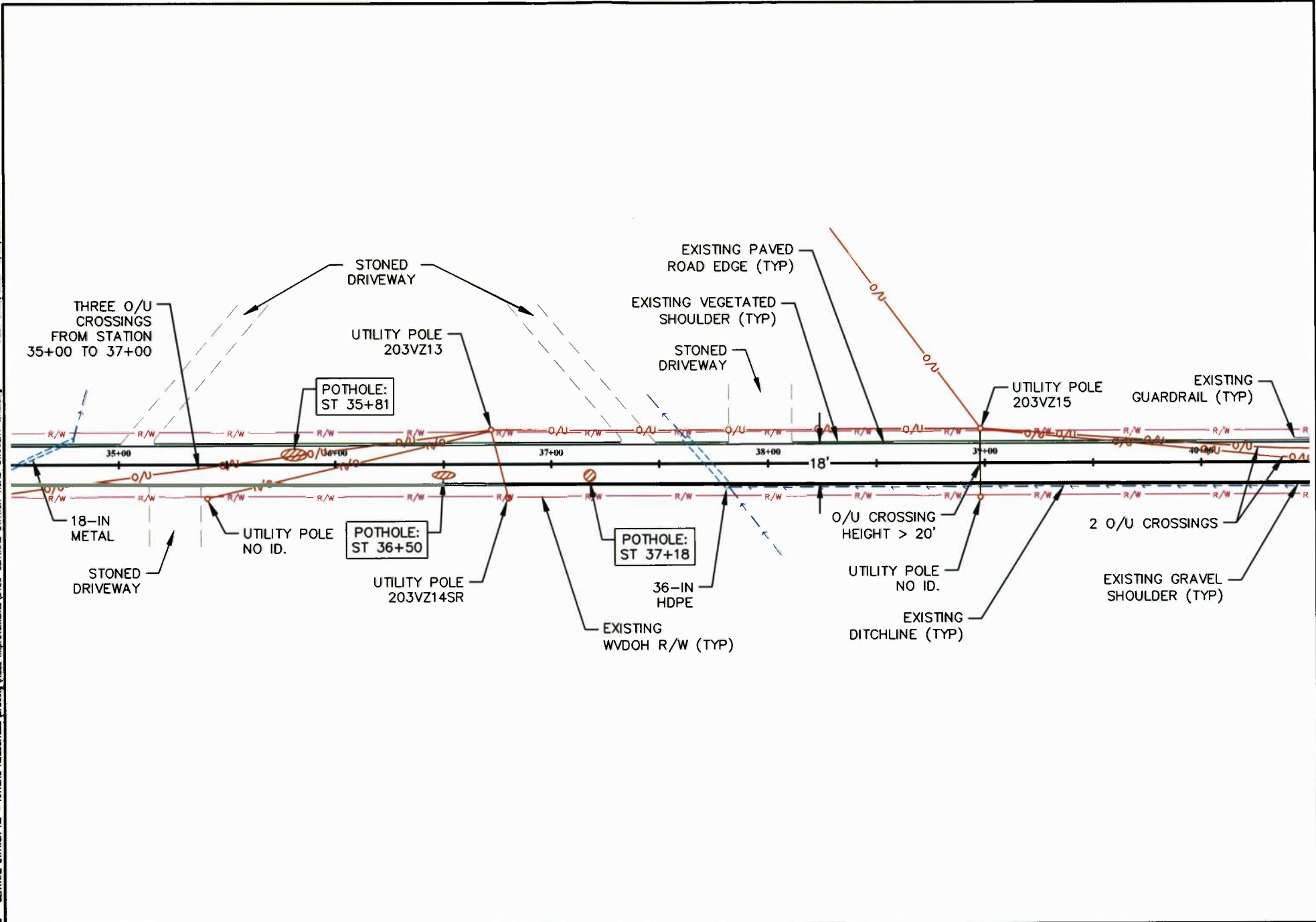
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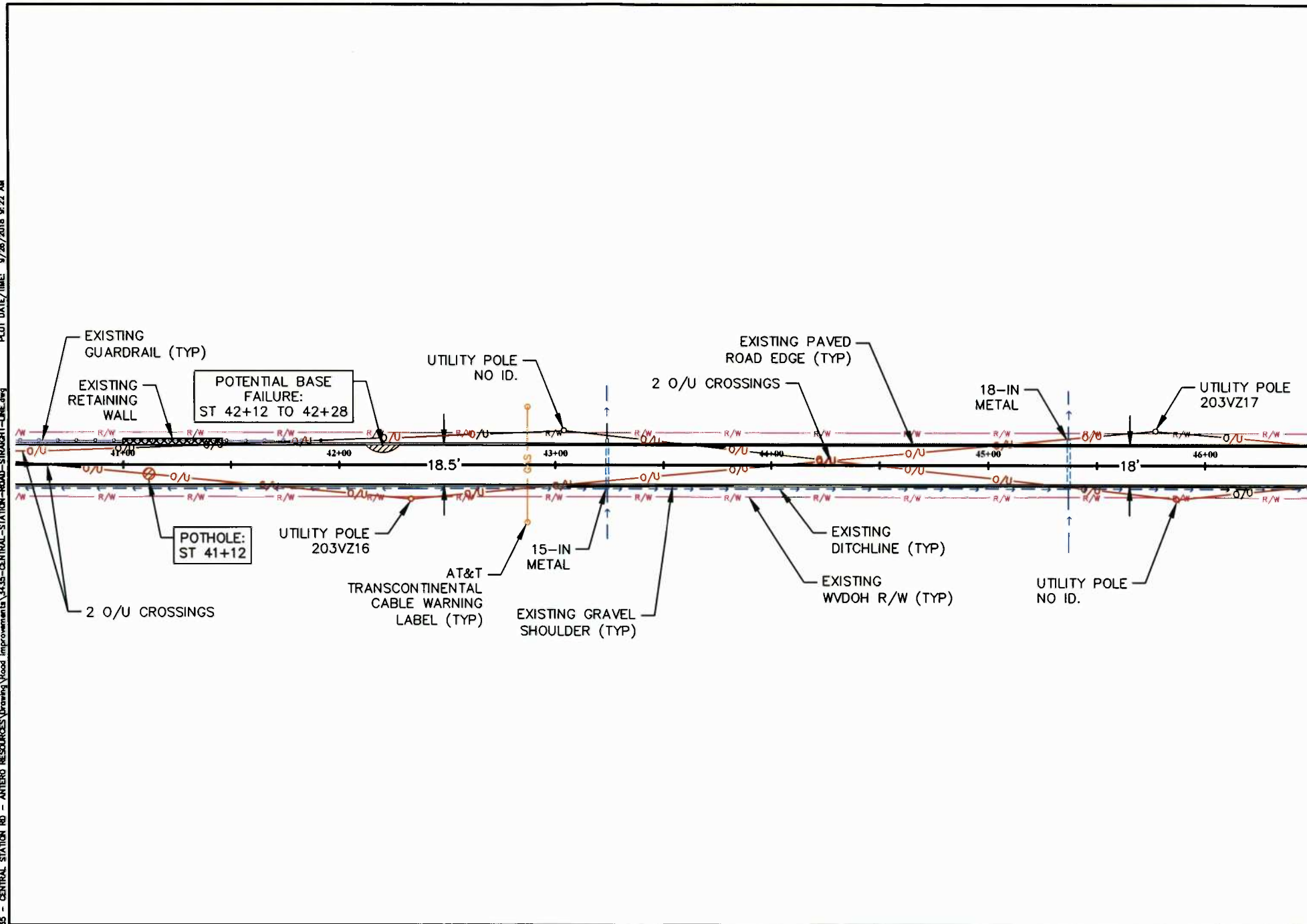
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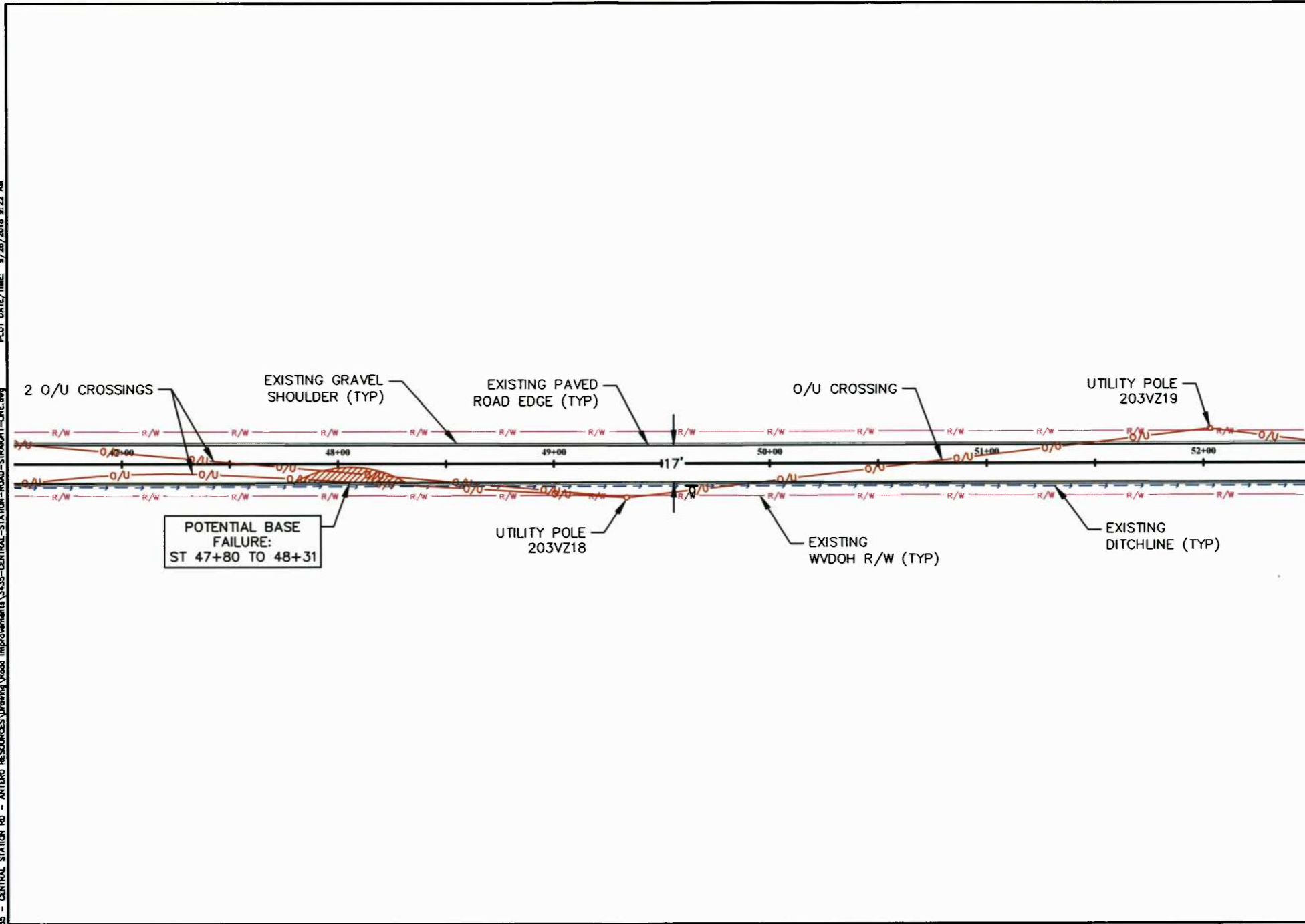
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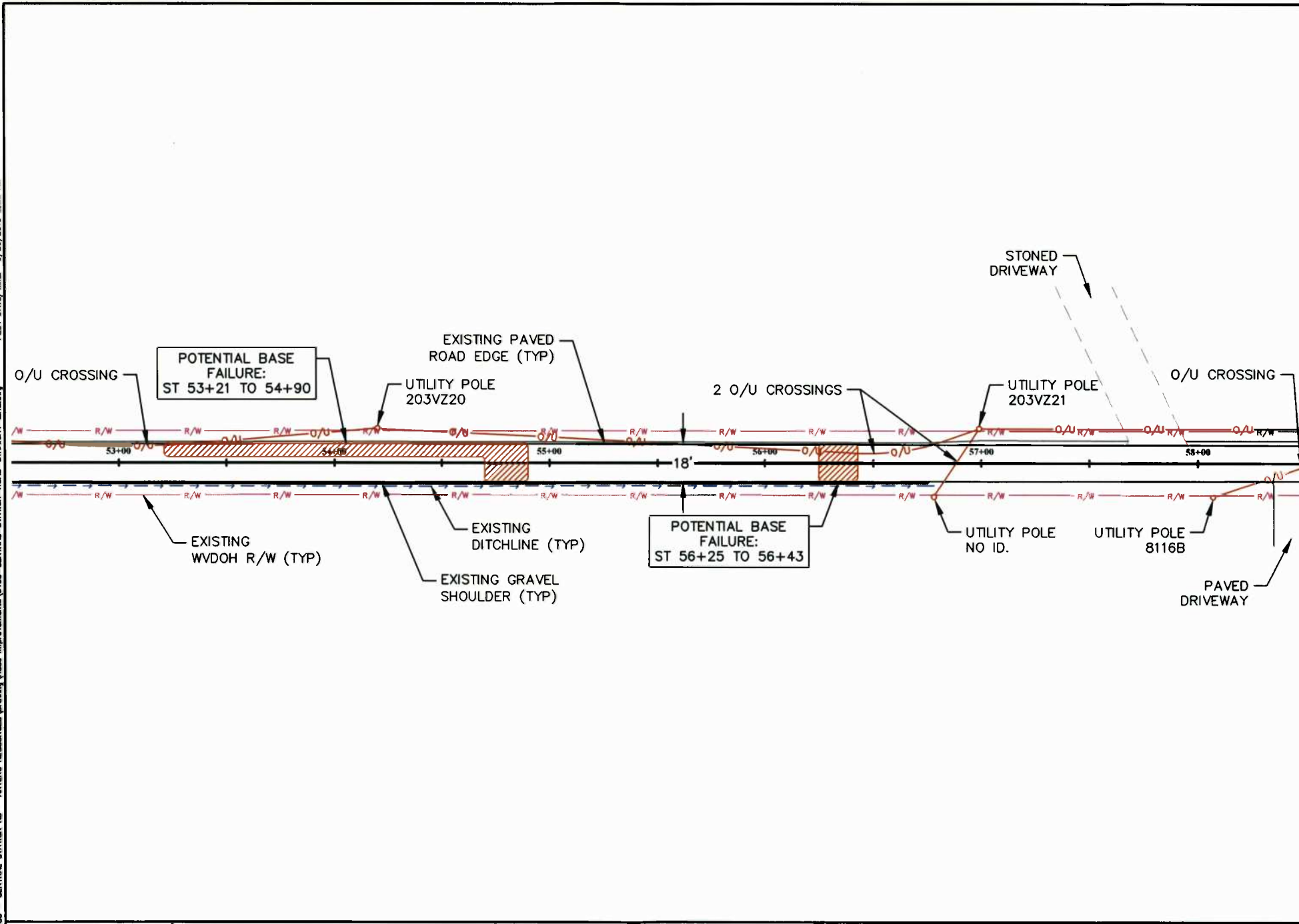


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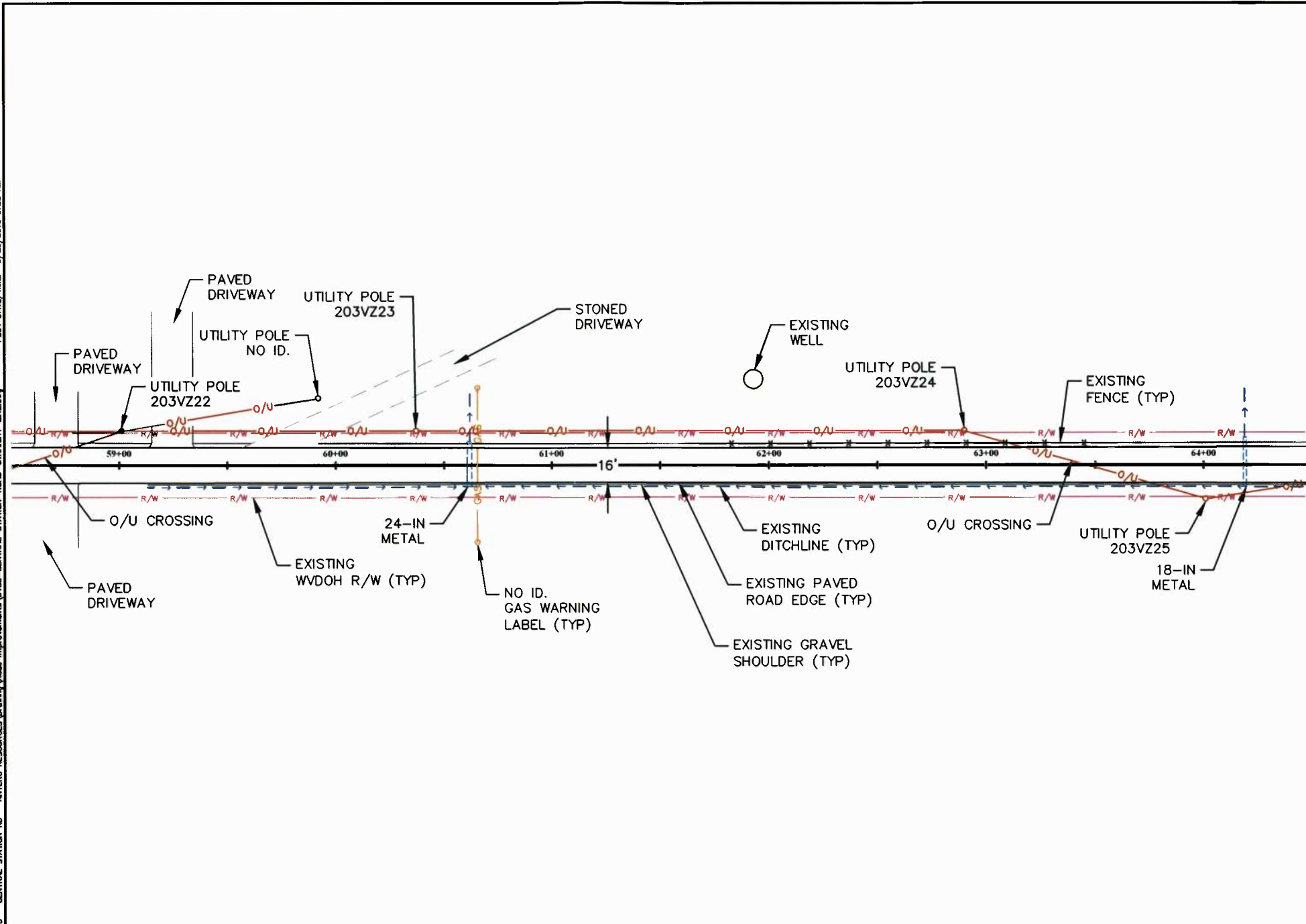
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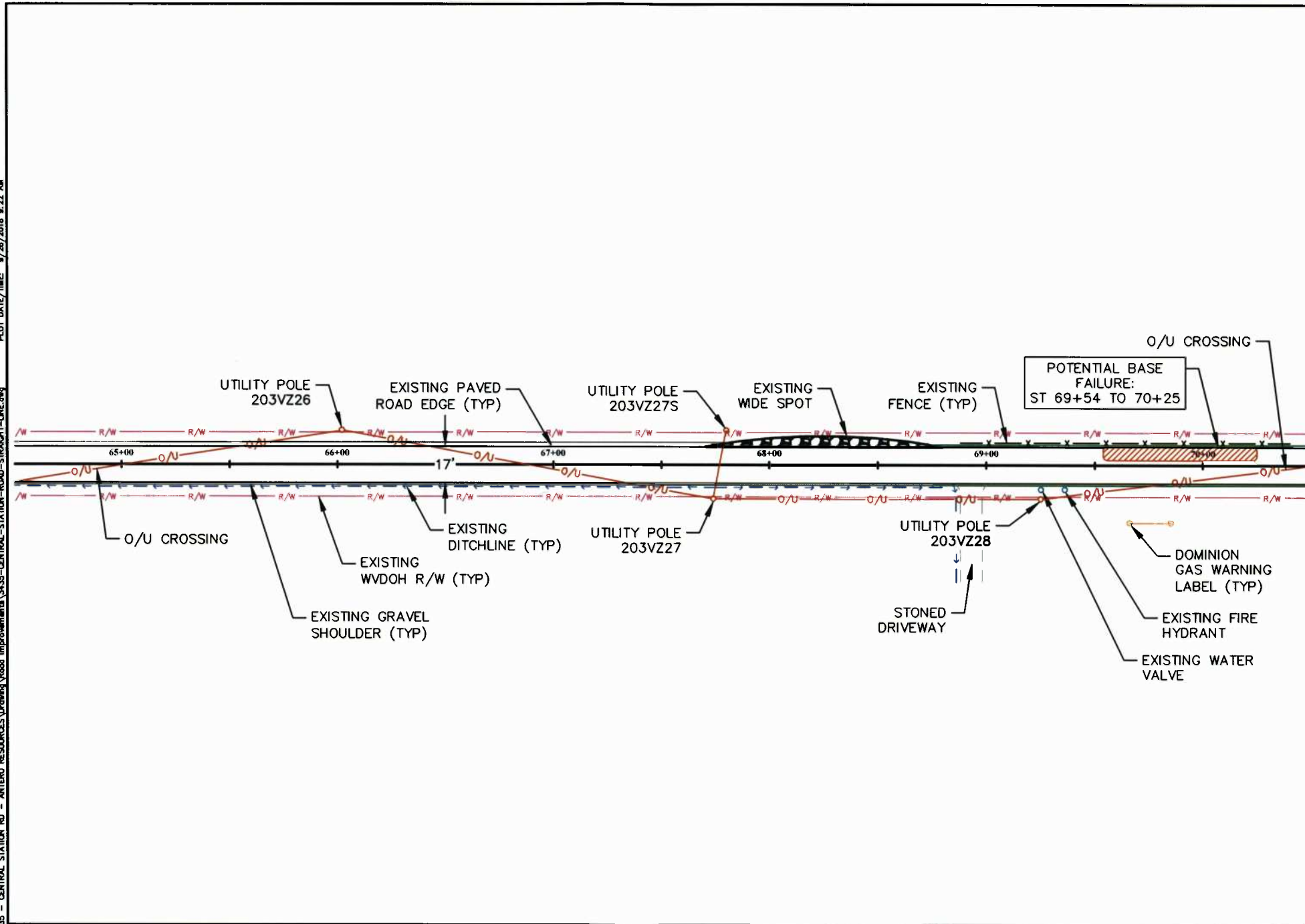


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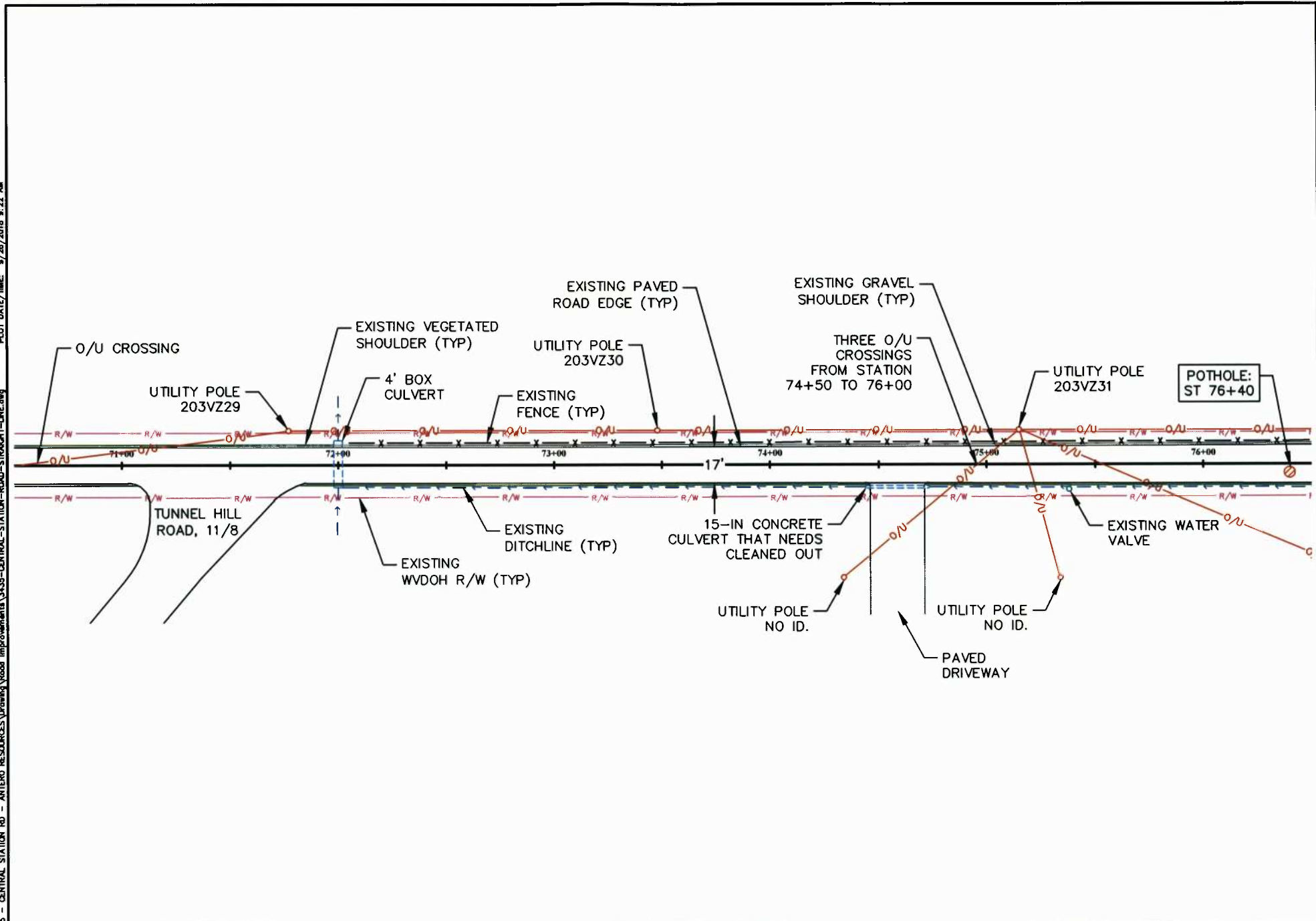


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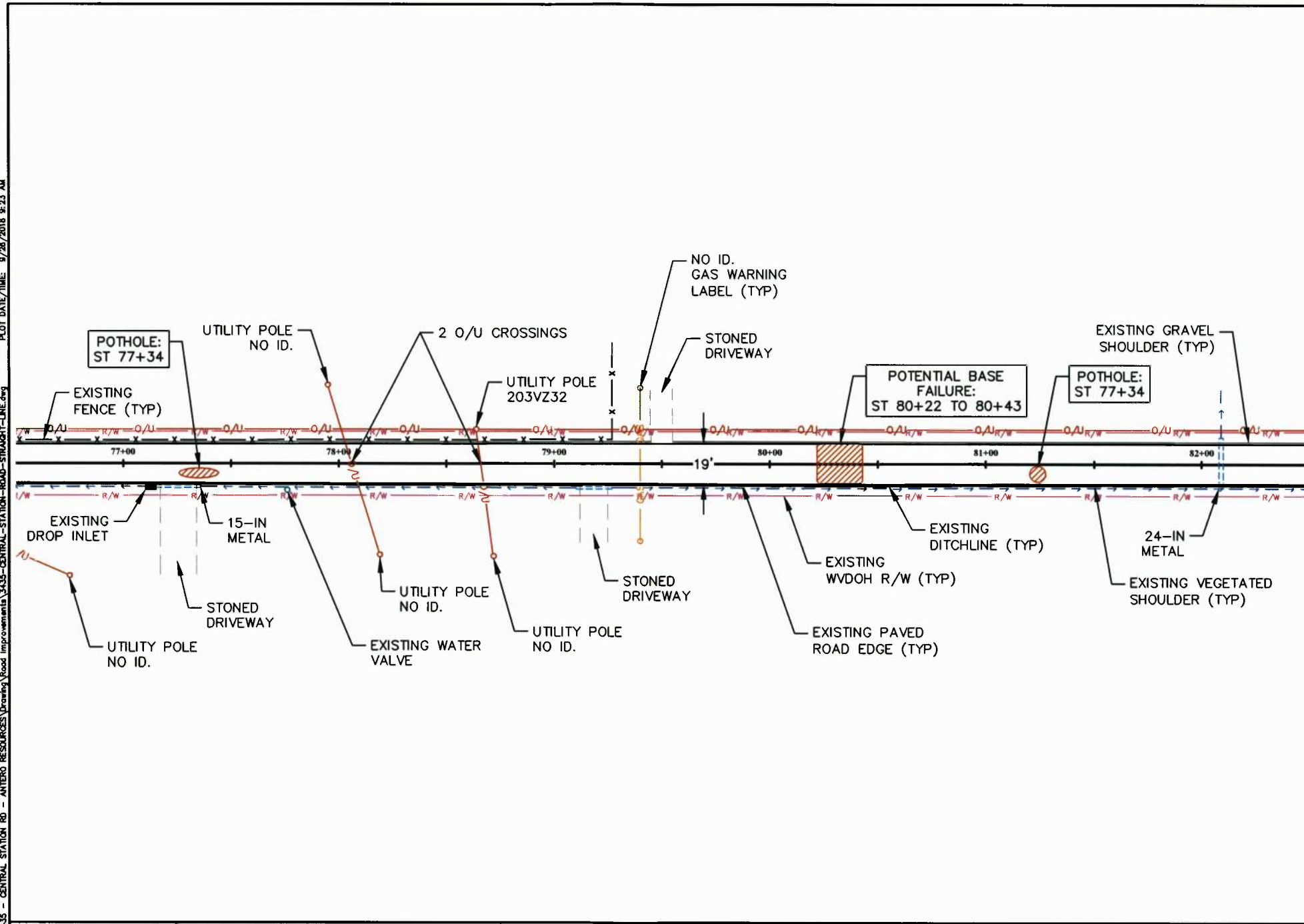
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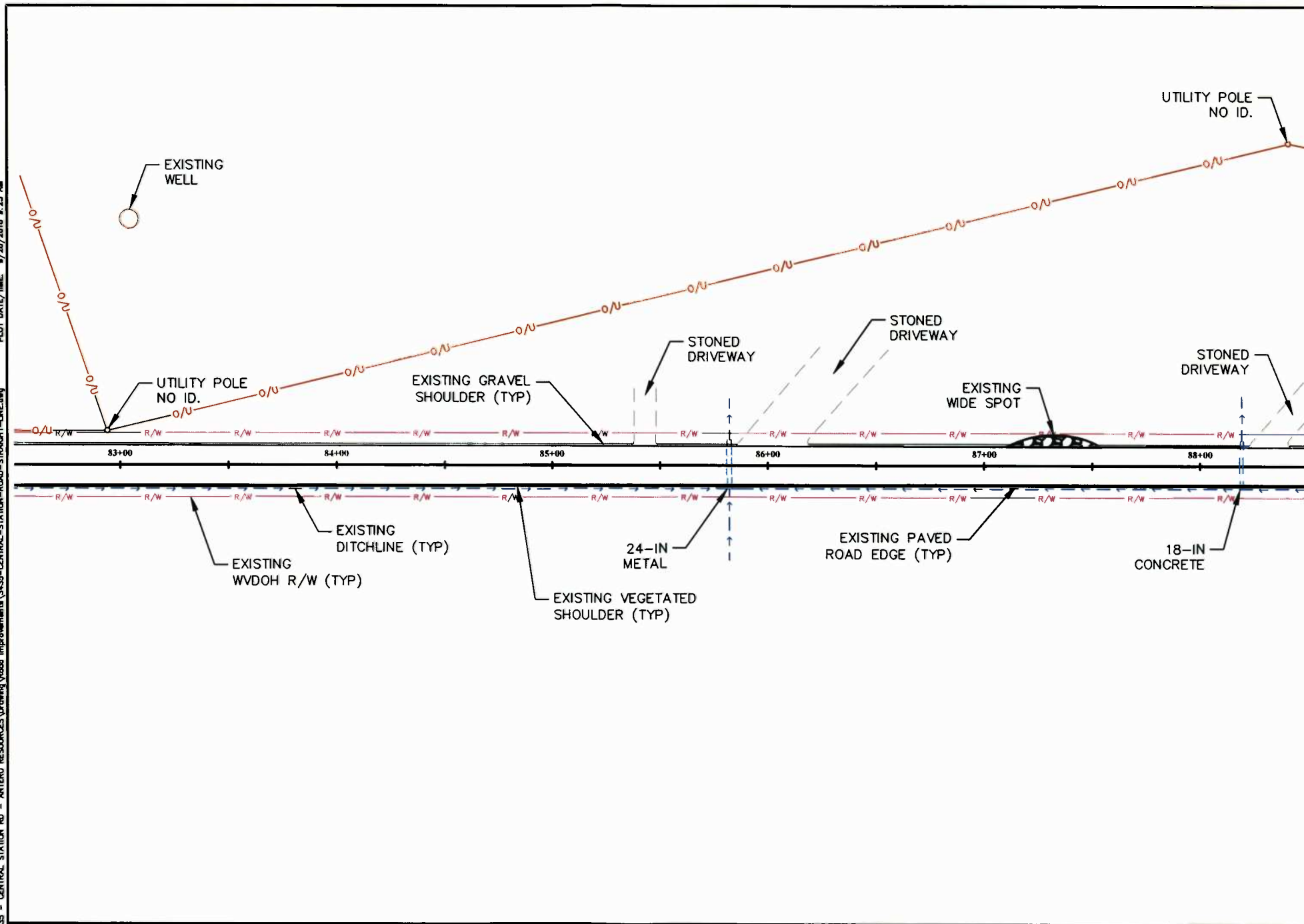
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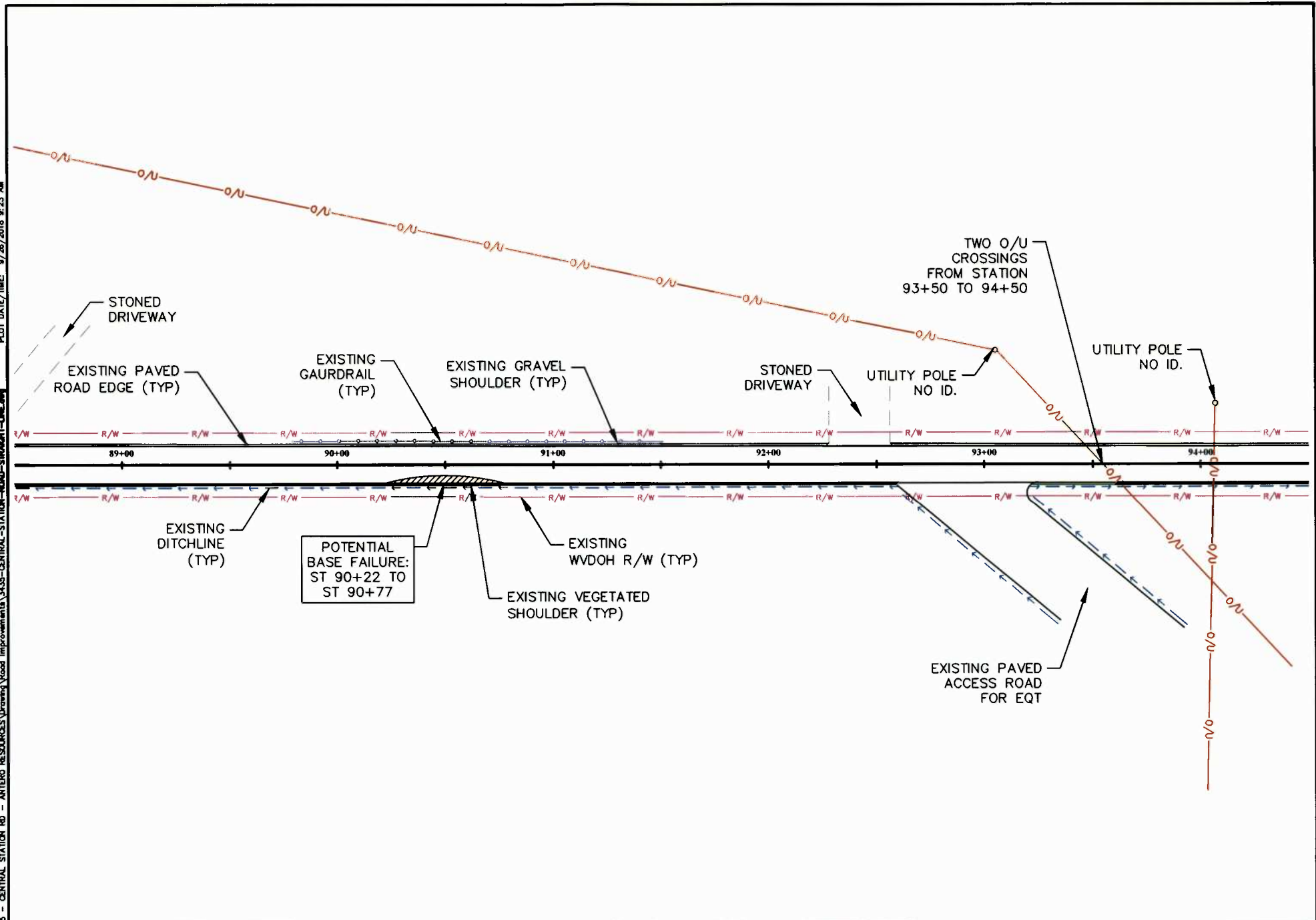
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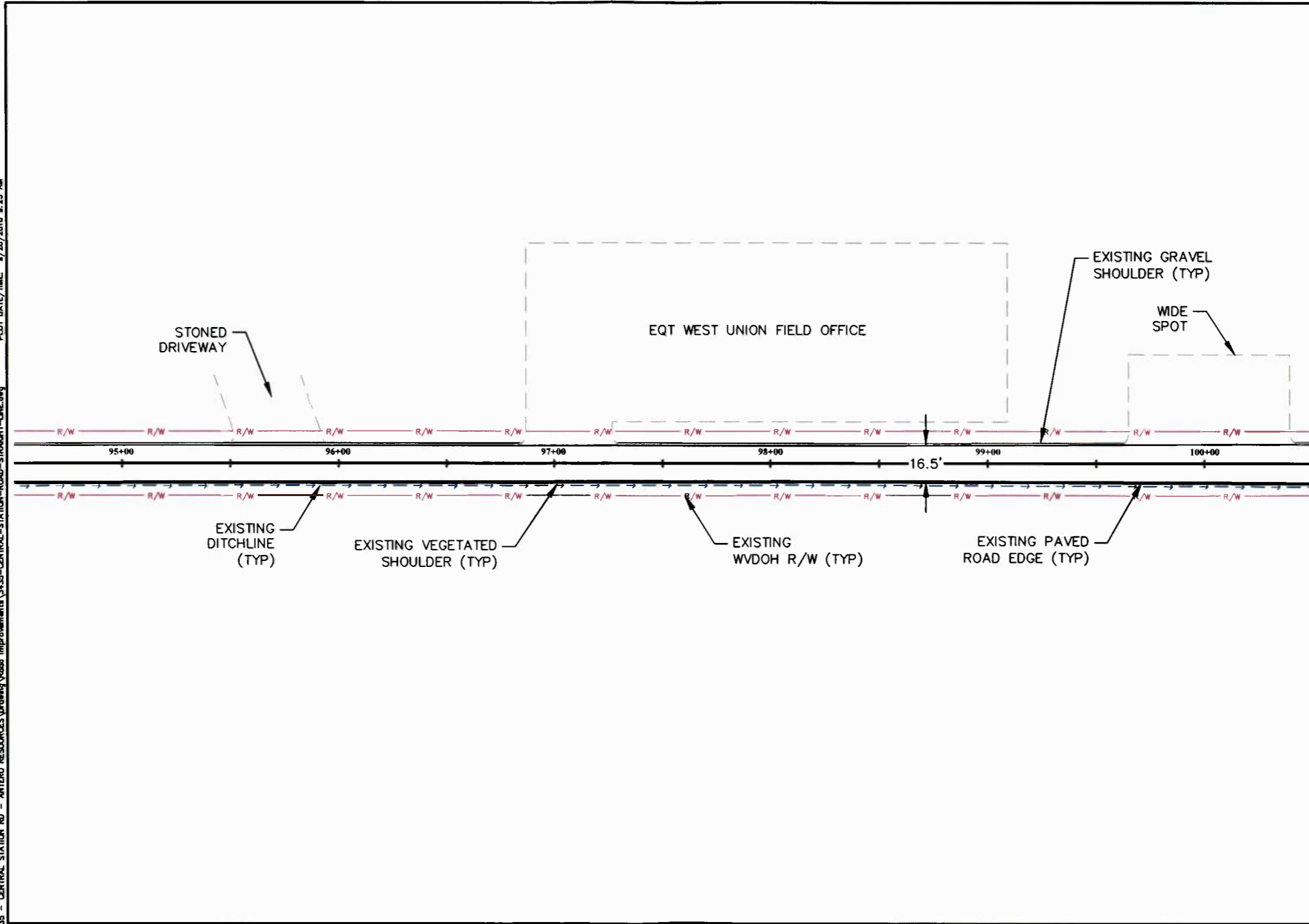
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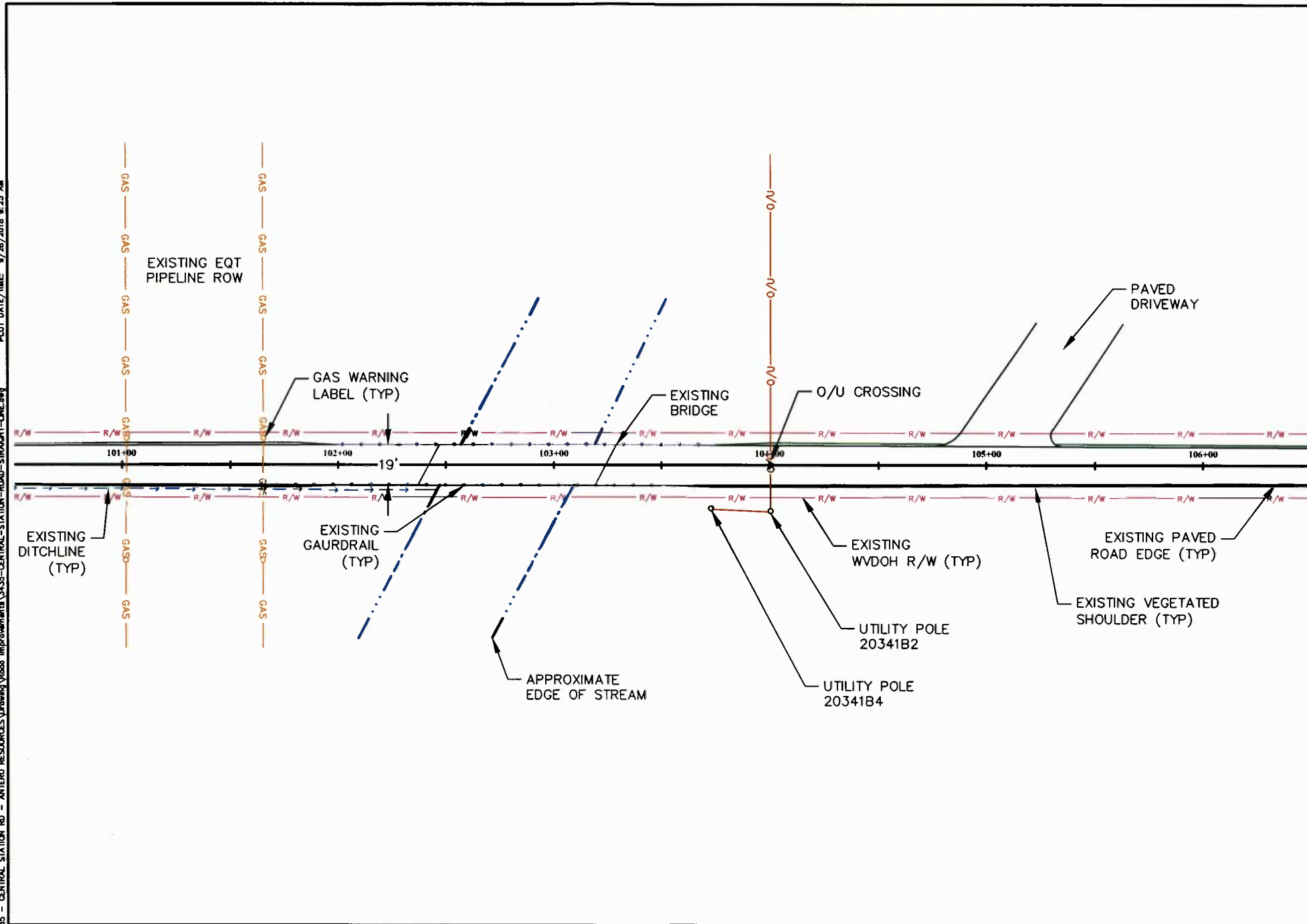
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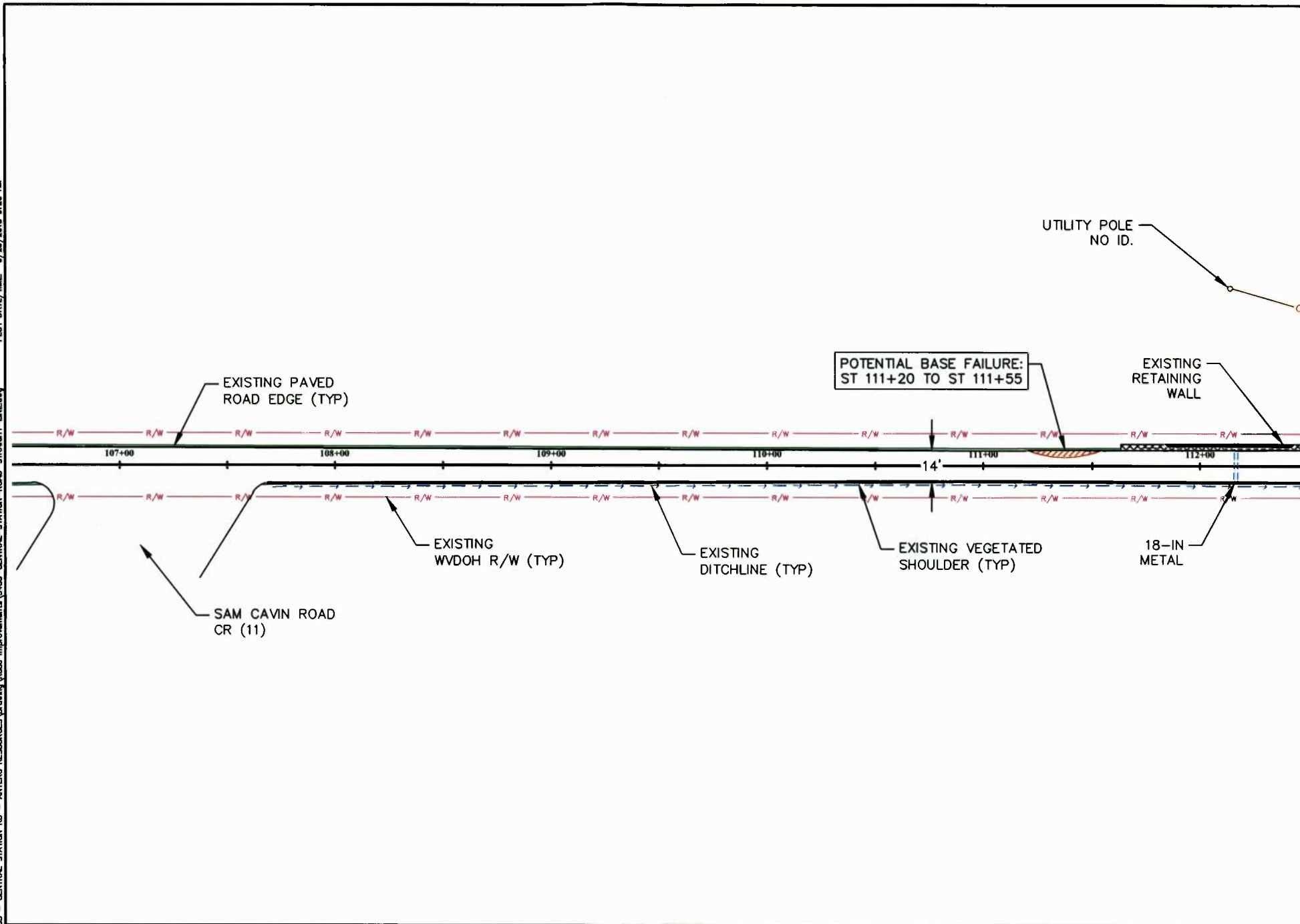
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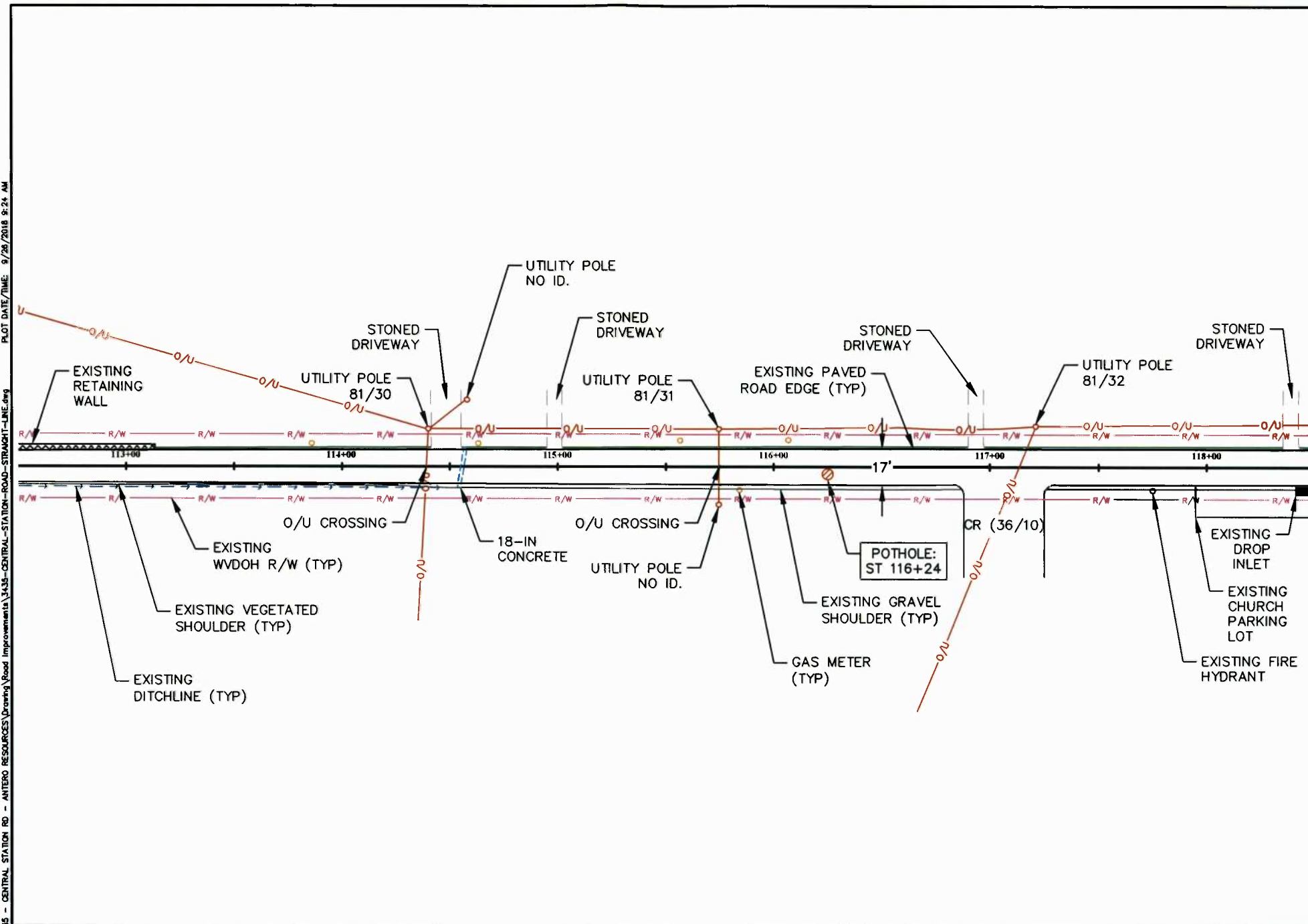
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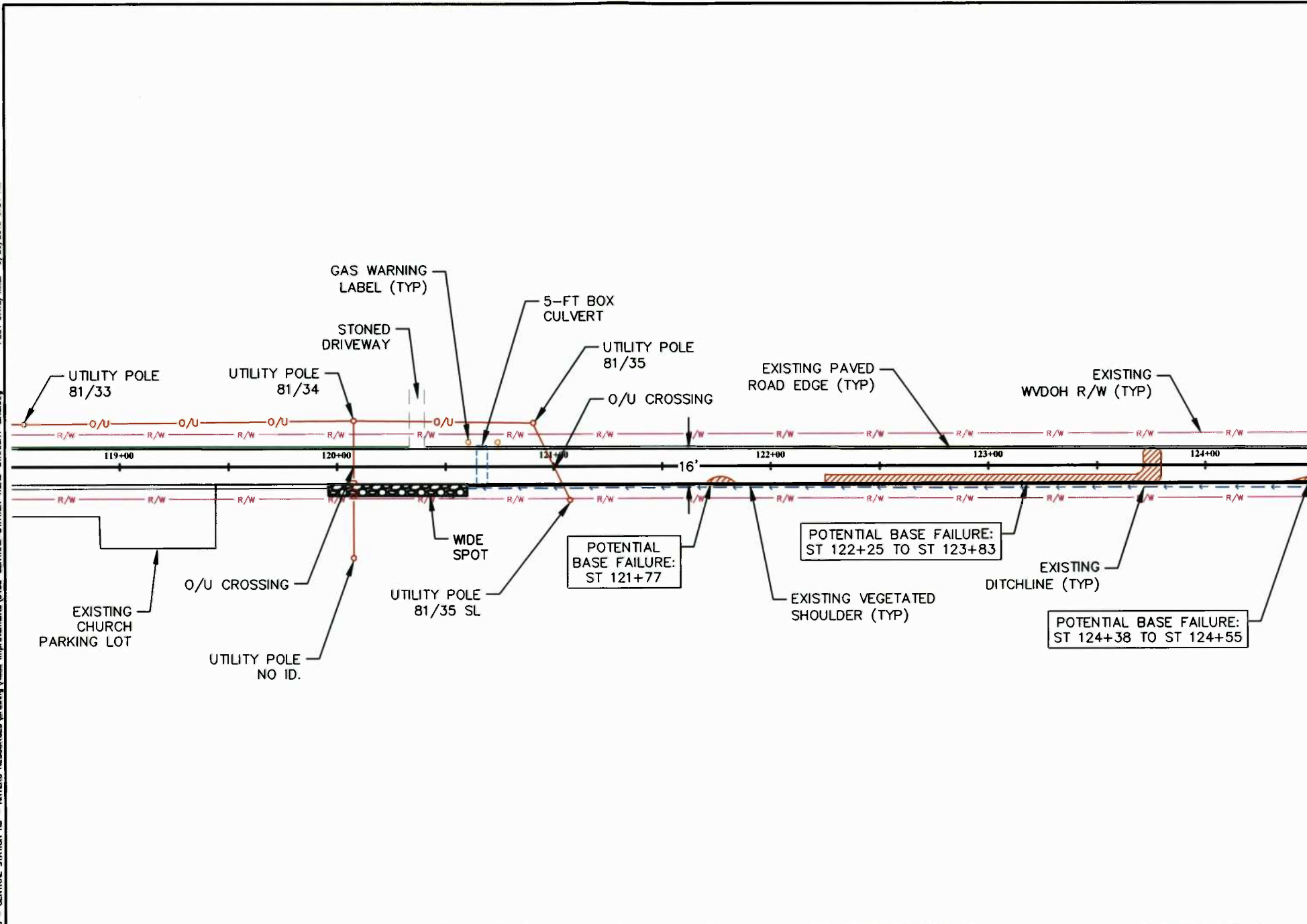


ANTERO RESOURCES  
ROAD IMPROVEMENT PLANS FOR  
CENTRAL STATION ROAD (CR 11)  
DODDRIDGE COUNTY, WEST VIRGINIA  
ROAD IMPROVEMENT PLAN

PROJECT No.  
101-030-3435  
SHEET No.  
21



CAD FILE: R:\030-3435 - CENTRAL STATION RD - ANTERO RESOURCES \Drawing\Road Improvements\3435-CENTRAL-STATION-ROAD-STRAIGHT-LINE.dwg PLOT DATE/TIME: 9/26/2018 9:24 AM



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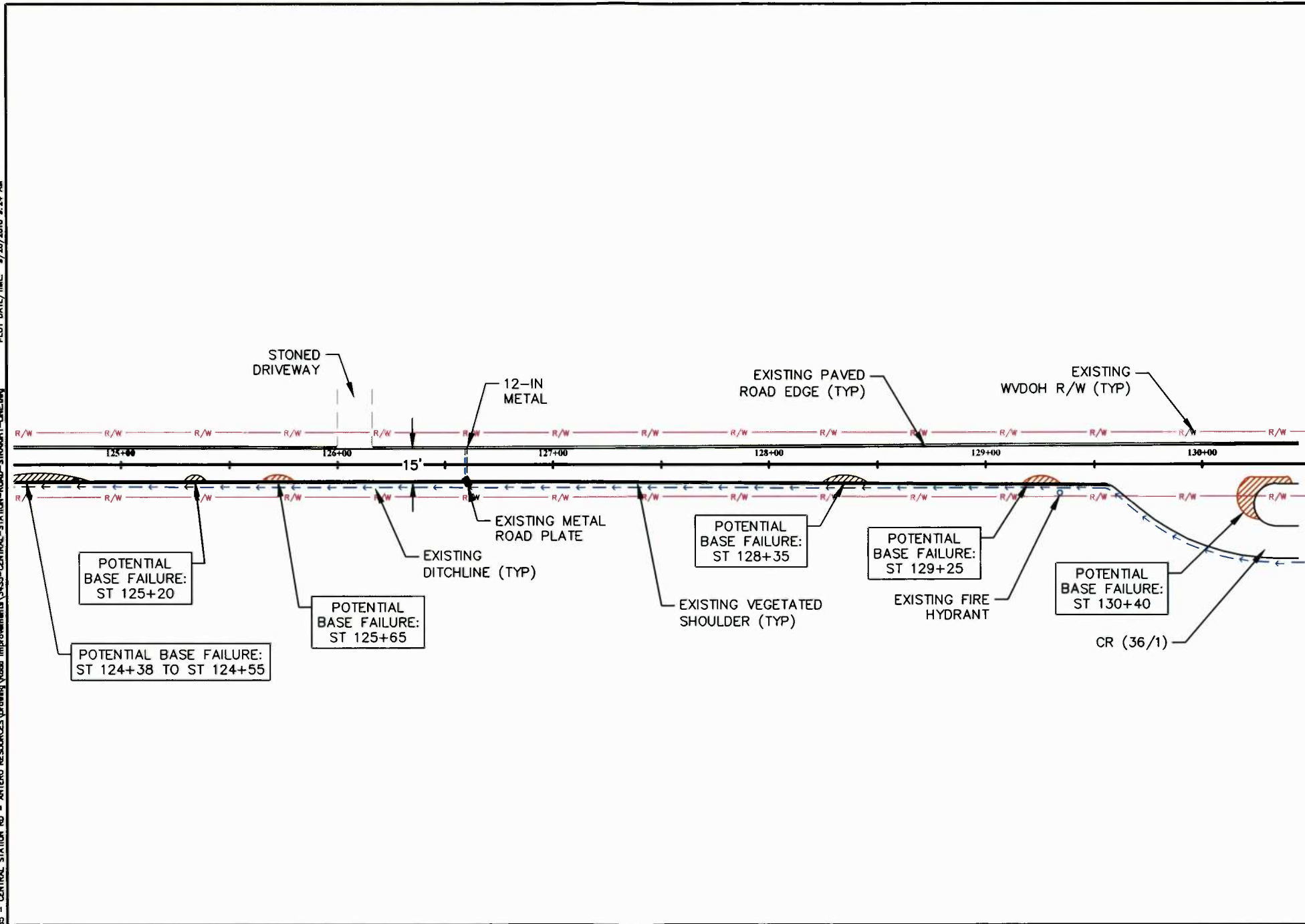


ANTERO RESOURCES  
 ROAD IMPROVEMENT PLANS FOR  
 CENTRAL STATION ROAD (CR 11)  
 DODDRIDGE COUNTY, WEST VIRGINIA  
 ROAD IMPROVEMENT PLAN

PROJECT No.  
 101-030-3435

SHEET No.  
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ANTERO RESOURCES  
 ROAD IMPROVEMENT PLANS FOR  
 CENTRAL STATION ROAD (CR 11)  
 DODDRIDGE COUNTY, WEST VIRGINIA  
 ROAD IMPROVEMENT PLAN

PROJECT No. 101-030-3435
SHEET No. 23

## GENERAL NOTES

1. THE GOVERNING SPECIFICATIONS FOR THIS PROJECT ARE THE THRASHER SPECIFICATIONS THAT ARE INCLUDED WITHIN THESE PLANS. ANY ITEMS NOT COVERED IN THE THRASHER SPECIFICATIONS SHALL BE COVERED BY THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION, DIVISION OF HIGHWAYS STANDARD SPECIFICATIONS, ROADS AND BRIDGES, ADOPTED 2017 AND THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION, DIVISION OF HIGHWAYS, STANDARD DETAILS BOOKS, VOLUME I, DATED MAY 2016 AND VOLUME II, DATED JANUARY 1, 1994.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING A VALID WEST VIRGINIA CONTRACTOR'S LICENSE AND PAYING ALL APPLICABLE STATE AND LOCAL TAXES.
3. THE CONSTRUCTION DRAWINGS REPRESENT THE PROPOSED LINES, GRADES, AND APPURTENANCES TO ACCOMPLISH THE INTENT OF THE SCOPE OF WORK. CERTAIN INCIDENTAL ITEMS TO COMPLETE THE SCOPE OF WORK MAY NOT BE SHOWN.
4. ALL WORK PERFORMED AND ALL MATERIAL FURNISHED SHALL CONFORM TO THE LINES, GRADES, CROSS SECTIONS, DIMENSIONS, AND MATERIAL REQUIREMENTS SHOWN ON THE CONSTRUCTION DRAWINGS. THE CONSTRUCTION DRAWINGS SHOW THE CONSTRUCTION LINES, GRADES, DEPTHS AND DIMENSIONS ON WHICH ESTIMATED QUANTITIES ARE BASED. THE CONSTRUCTION LINES, GRADES, DEPTHS AND DIMENSIONS ARE SUBJECT TO VARIATION NECESSARY TO OBTAIN SUBGRADE AND/OR FINAL GRADE SATISFACTORY TO THE ENGINEER.
5. THE CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF ALL PLAN AND ELEVATION DIMENSIONS OF THE VARIOUS WORK ITEMS ON THIS PROJECT.
6. THE CONTRACTOR SHALL PROVIDE ALL REASONABLE FACILITIES AND FURNISH THE OPERATOR, THROUGH THE ENGINEER, THE INFORMATION, ASSISTANCE, AND SAMPLES REQUIRED BY THE ENGINEER FOR PROPER MONITORING AND TESTING OF MATERIALS AND WORKMANSHIP.
7. THE CONTRACTOR SHALL HAVE ON THE SITE AT ALL TIMES A COMPETENT SUPERINTENDENT CAPABLE OF READING AND UNDERSTANDING THE CONSTRUCTION DOCUMENTS AND THOROUGHLY EXPERIENCED IN THE TYPE OF WORK BEING PERFORMED, AND SHALL BE ABLE TO COORDINATE WITH THE ENGINEER.
8. EVERY WHERE WITHIN THESE PLANS THE EXISTING WVDOH RIGHT OF WAY REPRESENTS THE LIMIT OF TREE TRIMMING UNLESS OTHERWISE DIRECTED BY THE OWNER. CONTRACTOR SHALL NOT CLEAR ANY TREES BEYOND THE EXISTING RIGHT OF WAY UNLESS DIRECTED TO DO SO BY THE OWNER.
9. DO NOT DEPOSIT OR BURY WITHIN THE DOH R/W DEBRIS RESULTING FROM TREE TRIMMING. ALL DEBRIS RESULTING FROM TREE TRIMMING OPERATIONS SHALL BECOME THE PROPERTY OF THE CONTRACTOR.
10. STRIP TOPSOIL TO WHATEVER DEPTH IT MAY OCCUR FROM AREAS TO BE EXCAVATED, FILLED, OR GRADED IN A MANNER TO PREVENT INTERMIXING WITH UNDERLYING SUBSOIL OR WASTE MATERIALS. STOCKPILE TOPSOIL AS DIRECTED BY THE OWNER FOR USE IN FINISH GRADING AND SEEDING. STOCKPILE AWAY FROM EDGE OF EXCAVATIONS WITHOUT INTERMIXING WITH SUBSOIL. GRADE AND SHAPE STOCKPILES TO DRAIN SURFACE WATER. PROTECT TOPSOIL STOCKPILES USING EROSION AND SEDIMENT CONTROL MEASURES AS DIRECTED BY THE ENGINEER.
11. SUITABLE SOIL MATERIALS ARE THOSE COMPLYING WITH WVDOH STANDARD SPECIFICATIONS.
12. ON-SITE MATERIAL FOR USE AS FILL SHALL CONSIST OF EXCAVATED SOIL FROM OTHER PORTIONS OF THE SITE. THE CONTRACTOR SHALL USE THE ON-SITE SOIL JUDICIOUSLY TO FACILITATE THE CONSTRUCTION SCHEDULE INCLUDING THE USE OF THE MOST READILY COMPATIBLE SOIL FOR FILL. TOPSOIL SHALL NOT BE UTILIZED AS ENGINEERED FILL. EXCAVATED MATERIAL CONTAINING ROCK, STONE OR MASONRY DEBRIS SMALLER THAN SIX INCHES IN ITS LARGEST DIMENSION, MAY BE MIXED WITH SUITABLE MATERIAL AND UTILIZED. FROZEN MATERIAL SHALL NOT BE USED IN FILL.
13. NO MATERIAL GREATER THAN SIX INCHES IN ITS LARGEST DIMENSION MAY BE UTILIZED INSIDE FILLING OPERATIONS.
14. STOCKPILE EXCAVATED MATERIALS CLASSIFIED AS SATISFACTORY SOIL MATERIAL AS SHOWN ON THE PLANS. GRADE AND SHAPE THE STOCKPILES FOR PROPER DRAINAGE. PROTECT THE STOCKPILES USING EROSION AND SEDIMENT CONTROL MEASURES AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
15. EXCAVATE UNSUITABLE SOIL MATERIALS ENCOUNTERED THAT EXTEND BELOW THE REQUIRED ELEVATIONS, TO THE ADDITIONAL DEPTH DIRECTED BY THE ENGINEER IN ACCORDANCE WITH WVDOH STANDARD SPECIFICATIONS.
16. FILL SHALL BE PLACED IN LIFTS OF MAXIMUM LOOSE DEPTH OF 9 INCHES. THE MATERIAL SHALL BE COMPACTED TO AT LEAST 95 PERCENT OF MAXIMUM DRY DENSITY AT MOISTURE CONTENT WITHIN PLUS OR MINUS THREE PERCENT ( $\pm 3\%$ ) OF THE OPTIMUM AS DETERMINED BY ASTM D698 OR 98 PERCENT OF MAXIMUM DRY DENSITY AT MOISTURE CONTENT WITHIN PLUS OR MINUS 3 PERCENT ( $\pm 3\%$ ) OF THE OPTIMUM AS DETERMINED BY A ONE-POINT FIELD PROCTOR. IF FILL FAILS COMPACTION TESTING, THE CONTRACTOR SHALL REWORK (RE-COMPACT, WATER AND RE-COMPACT, EXCAVATE AND DRY, ETC.) THE MATERIAL TO ACHIEVE THE SPECIFIED COMPACTION. THE CONTRACTOR MAY BE REQUIRED BY THE ENGINEER TO EXCAVATE FILL AND REPLACE WITH MATERIALS CAPABLE OF MEETING THE COMPACTION SPECIFICATIONS.
17. WHERE THE SUBGRADE OR LAYER OF SOIL MATERIAL MUST BE MOISTURE CONDITIONED BEFORE COMPACTION, UNIFORMLY APPLY WATER TO THE SURFACE OF THE SUBGRADE OR LAYER OF SOIL MATERIAL TO PREVENT FREE WATER APPEARING ON THE SURFACE DURING OR SUBSEQUENT TO COMPACTION OPERATIONS.

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ANTERO RESOURCES  
ROAD IMPROVEMENT PLANS FOR  
CENTRAL STATION ROAD (CR 11)  
DODDRIDGE COUNTY, WEST VIRGINIA  
GENERAL NOTES

PROJECT No. 101-030-3435
SHEET No. 24

**GENERAL NOTES (CONTINUED)**

18. REMOVE AND REPLACE, OR SCARIFY AND AIR DRY, SOIL MATERIAL THAT IS TOO WET TO PERMIT COMPACTION TO SPECIFIED DENSITY. SOIL MATERIAL THAT HAS BEEN REMOVED BECAUSE IT IS TOO WET TO PERMIT COMPACTION MAY BE STOCKPILED OR SPREAD AND ALLOWED TO DRY. ASSIST DRYING BY DISKING, HARROWING OR PULVERIZING, UNTIL THE MOISTURE CONTENT IS REDUCED TO A SATISFACTORY VALUE, AS DETERMINED BY MOISTURE-DENSITY RELATION TESTS.
19. COMPACTOR FOR MASS EARTHWORK SHALL BE MINIMUM TEN TON SMOOTH DRUM OR SHEEPSFOOT COMPACTOR AS APPROPRIATE FOR THE TYPE OF SOIL MATERIAL AT THE SITE OR OTHER COMPACTOR APPROVED BY THE ENGINEER.
20. IN AREAS TO RECEIVE FILL AND AT THE FINAL CUT SUBGRADE, PROOF ROLL AND COMPACT THE EXPOSED GROUND SURFACE FOLLOWING CLEARING AND GRUBBING AND ANY REQUIRED EXCAVATION WITH A MINIMUM OF FOUR PASSES OF AN APPROVED COMPACTOR. PROOF ROLLING SHALL BE UNDER THE OBSERVATION OF THE ENGINEER AS DESCRIBED HEREIN. IMMEDIATELY FOLLOWING THE COMPLETION OF EXCAVATION TO PROPOSED SUBGRADES IN CUT AREAS, PROOF ROLLING SHALL BE PERFORMED AS SPECIFIED. ANY AREAS WHICH DEFLECT, RUT, OR PUMP UNDER THE LOADED DUMP TRUCK SHALL BE UNDERCUT AND REPLACED WITH COMPACTED FILL MATERIAL OR STONE BASE COURSE AS DIRECTED BY THE ENGINEER.
21. PROOF ROLLING SHALL BE DONE WITH ONE PASS OF A FULLY LOADED TANDEM DUMP TRUCK EQUAL TO OR EXCEEDING 50,000-LB OR OTHER CONSTRUCTION EQUIPMENT IF APPROVED BY THE ENGINEER. PROOF ROLLING METHODS SHALL BE AS FOLLOWS:
  - 21.1. AFTER THE SUBGRADE HAS BEEN COMPLETED THE SUBGRADE SHALL THEN BE PROOF ROLLED. THE COVERAGE AREAS AND METHODS SHALL BE IDENTIFIED BY THE ENGINEER.
  - 21.2. THE EQUIPMENT SHALL BE OPERATED AT A SPEED THAT THE ENGINEER CAN COMFORTABLY AND SLOWLY WALK ALONG SIDE THE EQUIPMENT.
  - 21.3. IF IT BECOMES NECESSARY TO TAKE CORRECTIVE ACTION, SUCH AS BUT NOT LIMITED TO UNDERDRAIN INSTALLATION, UNDERCUT AND BACKFILL OF AN UNSUITABLE MATERIAL, AND AERATION OF EXCESSIVELY WET MATERIAL IN AREAS THAT HAVE BEEN PROOF ROLLED. THESE AREAS SHALL BE PROOF ROLLED AGAIN FOLLOWING THE COMPLETION OF THE NECESSARY CORRECTIONS. IF THE CORRECTIONS ARE NECESSARY DUE TO THE NEGLIGENCE OF THE CONTRACTOR, THE CORRECTIVE WORK AND ADDITIONAL PROOF ROLLING SHALL BE PERFORMED BY THE CONTRACTOR AT NO COST TO THE OPERATOR.
22. THE CONTRACTOR SHALL LOCATE AND PROTECT EXISTING UTILITIES AND FACILITIES FROM DAMAGE BY EQUIPMENT OR PERSONNEL. THE CONTRACTOR SHALL CONTACT ALL UTILITY AND FACILITY AGENCIES FOR FIELD MARKING PRIOR TO BEGINNING CONSTRUCTION. THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE EXISTING UTILITY INFORMATION IS THE BEST AVAILABLE AND MAY NOT BE COMPLETELY ACCURATE OR REPRESENTATIVE OF ACTUAL CONDITIONS. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE UNDERGROUND UTILITIES. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND/OR OWNER IN WRITING, OF ANY EXISTING DAMAGED UTILITIES PRIOR TO BEGINNING CONSTRUCTION. ANY UTILITIES OR FACILITIES DAMAGED DURING THE PROJECT BY THE CONTRACTOR OR EQUIPMENT SHALL BE PROMPTLY REPAIRED AT THE CONTRACTOR'S EXPENSE. HAND DIGGING TO PROTECT UTILITIES FROM DAMAGE SHOULD BE ANTICIPATED.
23. ALL DISTURBED AREAS, SHALL BE RESTORED TO A SMOOTH LINE AND GRADE WITH POSITIVE DRAINAGE. THE CONTRACTOR SHALL SEED AND MULCH ALL DISTURBED AREAS. THERE WILL BE NO MEASUREMENT FOR PAYMENT OF SEEDING AND MULCHING REQUIRED OUTSIDE THE GRADING LIMITS.
24. THE CONTRACTOR SHALL PROVIDE TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES AND OTHER ACTIONS AS REQUIRED BY LOCAL AND STATE REGULATIONS OR REQUESTED BY THE ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING OR MODIFYING EROSION AND SEDIMENT CONTROL MEASURES DURING CONSTRUCTION IN ORDER TO PREVENT EROSION. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IN ACCORDANCE WITH "WEST VIRGINIA EROSION AND SEDIMENT CONTROL FIELD MANUAL", AVAILABLE AT: <http://www.dep.wv.gov/oil-and-gas/Documents/Erosion%20Manual%2004.pdf>
25. THE CONTRACTOR SHALL INSTALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES AS NEEDED TO ENSURE ALL SEDIMENT IS CONTROLLED AND CONTAINED ON SITE.

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ANTERO RESOURCES  
ROAD IMPROVEMENT PLANS FOR  
CENTRAL STATION ROAD (CR 11)  
DODDRIDGE COUNTY, WEST VIRGINIA  
GENERAL NOTES

PROJECT No.  
101-030-3435  
SHEET No.  
25

## EROSION & SEDIMENT CONTROL NOTES

### MAINTENANCE AND INSPECTION NOTES

1. THE PROJECT SHALL HAVE ZERO ENVIRONMENTAL IMPACTS.

### SEEDING AND MULCHING

1. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN 7 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS PERMANENTLY CEASED.
2. WHERE THE INITIATION OF STABILIZATION MEASURES WITHIN 7 DAYS AFTER CONSTRUCTION ACTIVITY TEMPORARILY OR PERMANENTLY CEASES IS PRECLUDED BY SNOW COVER, STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS CONDITIONS ALLOW.
3. WHERE CONSTRUCTION ACTIVITY WILL RESUME ON A PORTION OF THE SITE WITHIN 14 DAYS FROM WHEN ACTIVITIES CEASED, (E.G., THE TOTAL TIME PERIOD THAT CONSTRUCTION ACTIVITY IS TEMPORARILY HALTED IS LESS THAN 14 DAYS) THEN STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THAT PORTION OF THE SITE BY THE SEVENTH DAY AFTER CONSTRUCTION ACTIVITIES HAVE TEMPORARILY CEASED.
4. SEEDBED PREPARATION: AREAS TO BE SEEDED SHALL BE FREE OF ROCKS AND STONES, DISKED TO A DEPTH OF 4-IN TO 6-IN, AND SMOOTHLY GRADED.
5. SEEDING METHOD: SEED MAY BE BROADCAST BY HYDROSEEDER OR MANUALLY AS FOLLOWS: BY HAND WITH A CYCLONE SEEDER, OR FERTILIZER SPREADER. IF A MANUAL METHOD IS USED, DIVIDE THE SEED INTO TWO LOTS AND BROADCAST THE SECOND PERPENDICULAR TO THE FIRST.
6. TOPSOIL SHALL BE REDISTRIBUTED ON ALL DISTURBED AREAS TO BE STABILIZED PRIOR TO SEEDING.
7. AREAS WHERE THE SEED HAS FAILED TO GERMINATE ADEQUATELY (UNIFORM PERENNIAL VEGETATIVE COVER WITH A DENSITY OF 70%) WITHIN 30 DAYS AFTER SEEDING AND MULCHING MUST BE RE-SEEDED IMMEDIATELY, OR AS SOON AS WEATHER CONDITIONS ALLOW.
8. TEMPORARY AND PERMANENT SEED MIXTURES SHALL BE IN ACCORDANCE WITH WVDOH SPECIFICATIONS.
9. MULCH, LIME, AND FERTILIZER SHALL BE IN ACCORDING WITH WVDOH SPECIFICATIONS.

### CONTACTS

MISS UTILITY  
1-800-245-4848  
<http://www.wv811.com>

WEST VIRGINIA DIVISION OF  
HIGHWAYS  
DISTRICT FOUR  
1-79 & MEADOWBROOK ROAD  
CLARKSBURG, WV 26302-2570  
304-842-1500

NATIONAL RESPONSE CENTER  
FOR REPORTING CHEMICAL OR  
OIL SPILLS  
1-800-424-8802

STATE EMERGENCY SPILL  
NOTIFICATION  
1-800-642-3074

AMBULANCE, FIRE, LAW  
ENFORCEMENT  
911

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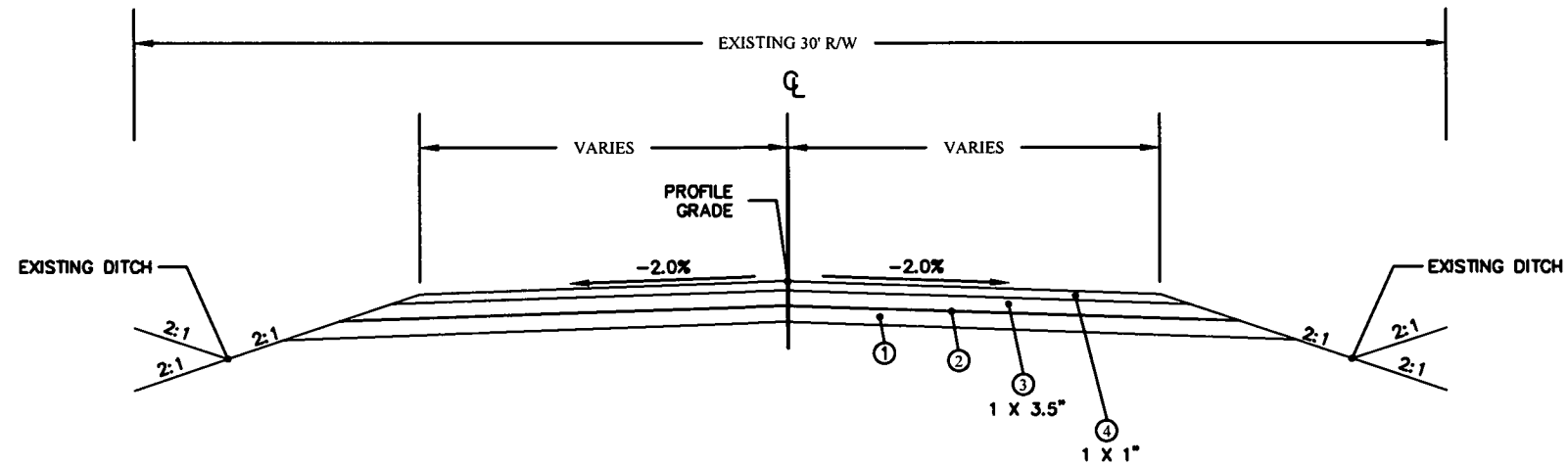


ANTERO RESOURCES  
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CENTRAL STATION ROAD (CR 11)  
DODDRIDGE COUNTY, WEST VIRGINIA  
EROSION AND SEDIMENT CONTROL NOTES

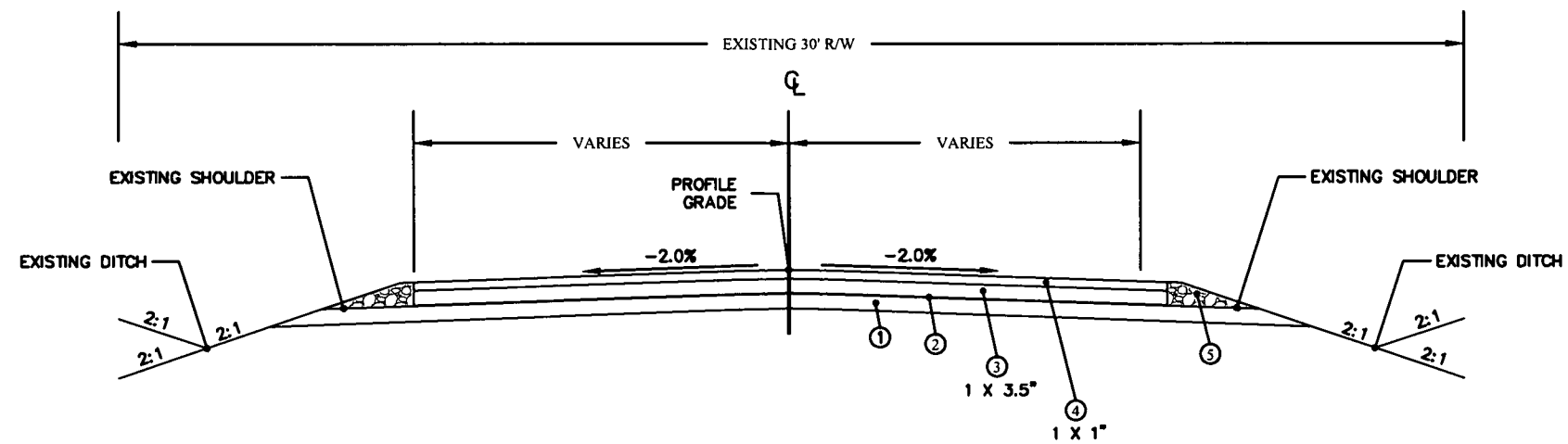
PROJECT No.  
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26

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- LEGEND**
- ① EXISTING ROADWAY
  - ② ITEM 408002-001: TACK COAT, BITUMINOUS MATERIAL
  - ③ ITEM 401001-001: MARSHALL HMA BASE COURSE, STONE OR GRAVEL, TYPE I
  - ④ ITEM 401002-001: MARSHALL HMA WEAR COURSE, STONE OR GRAVEL, TYPE I
  - ⑤ ITEM 307001-003: AGGREGATE BASE COURSE, CLASS 10



**CENTRAL STATION ROAD (CR 11) TYPICAL SECTION WITHOUT SHOULDER**  
NOT TO SCALE



**CENTRAL STATION ROAD (CR 11) TYPICAL SECTION WITH SHOULDER**  
NOT TO SCALE

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ANTERO RESOURCES  
 ROAD IMPROVEMENT PLANS FOR  
 CENTRAL STATION ROAD (CR 11)  
 DODDRIDGE COUNTY, WEST VIRGINIA  
 TYPICAL SECTIONS

PROJECT No.  
 101-030-3435  
 SHEET No.  
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ROADWAY IMPROVEMENT QUANTITIES

QUANTITY SUMMARY				
DOH ITEM NO.	ANTERO ITEM NO.	DESCRIPTION	APPROX. QTY.	UNITS
-	-	BASE FAILURE REPAIR*	0	CY
207001-001	RUC207	UNCLASSIFIED EXCAVATION**	-	CY
207034-000	RUC420	FABRIC SEPERATION**	-	SY
229001-000	RUC500	SHOULDER AND DITCH	17690	LF
307001-001	RUC410	AGGREGATE BASE COURSE, CLASS 1	-	TN
307001-001	RUC410	AGGREGATE BASE COURSE, CLASS 9**	-	TN
307001-003	RUC410	AGGREGATE BASE COURSE, CLASS 10	275	TN
408002-001	RUC496	TACK COAT, BITUMINOUS MATERIAL	24907	SY
401001-001	RUC490	MARSHALL HMA BASE COURSE, TYPE 1	4795	TN
401002-001	RUC495	MARSHALL HMA WEAR COURSE, TYPE 1	1370	TN
663004-004	RUC765	EDGE LINE, TYPE II, (6" WHITE)	80	LF
663002-038	RUC760	CENTERLINE, TYPE II, (6" YELLOW)	218	LF
663005-010	RUC762	STOP LINE, TYPE V- 12 IN	30	LF
-	-	COURSE AGGREGATE, AASHTO #1**	-	TN
-	-	STABILIZATION FABRIC, ACF12 GEOGRID**	-	SY
<p>* THE EVALUATION WAS DONE SOLELY UPON VISUAL OBSERVATION. THERE HAS BEEN NO SUBSURFACE INVESTIGATION PERFORMED. AT THIS TIME THE MAGNITUDE OF THE BASE FAILURE IS UNKNOWN UNTIL EXPLORATORY EXCAVATION HAS BEEN PERFORMED.</p>				
<p>** QUANTITIES WILL VARY PENDING THE TYPE OF REPAIR MADE WHICH WILL BE DETERMINED IN-FIELD AT THE TIME OF EXPLORATORY EXCAVATION</p>				

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QUANTITIES

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ROADWAY IMPROVEMENT QUANTITIES

BASE FAILURE QUANTITIES					
STATION	LENGTH	WIDTH	DEPTH	CU FEET	CY
3+64	26	5	1.5	195	7.22
8+66	106	5	1.5	795	29.44
20+40	65	9	1.5	877.5	32.50
27+00	28	4	1.5	168	6.22
42+12	16	2	1.5	48	1.78
47+80	51	4	1.5	306	11.33
53+21	161	8	1.5	1932	71.56
54+82	8	18	1.5	216	8.00
56+25	18	18	1.5	486	18.00
69+54	71	7	1.5	745.5	27.61
80+22	21	17	1.5	535.5	19.83
90+22	55	8	1.5	660	24.44
111+20	35	2	1.5	105	3.89
121+77	5	4	1.5	30	1.11
122+25	158	4	1.5	948	35.11
124+38	17	5	1.5	127.5	4.72
125+20	7	8	1.5	84	3.11
125+65	7	10	1.5	105	3.89
128+35	6	8	1.5	72	2.67
129+25	6	8	1.5	72	2.67
130+40	5	16	1.5	120	4.44
<b>TOTAL COMBINED BASE FAILURE = 320 CY</b>					
* THE EVALUATION WAS DONE SOLELY UPON VISUAL OBSERVATION. THERE HAS BEEN NO SUBSURFACE INVESTIGATION PERFORMED. AT THIS TIME THE MAGNITUDE OF THE BASE FAILURE IS UNKNOWN UNTIL EXPLORATORY EXCAVATION HAS BEEN PERFORMED.					

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 ROAD IMPROVEMENT PLANS FOR  
 CENTRAL STATION ROAD (CR 11)  
 DODDRIDGE COUNTY, WEST VIRGINIA  
 QUANTITIES

PROJECT No.  
 101-030-3435  
 SHEET No.  
 29



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EXISTING ROADWAY WIDTHS

CR (11) ROAD WIDTHS	
STATION	WIDTH (FT)
2+00	17
3+73	15
5+00	17
9+00	16.5
13+00	16.5
20+00	18
27+00	18
32+00	16.5
37+00	18
42+00	18.5
46+00	18
49+25	17
53+75	18
61+25	16
66+50	17
74+00	17
80+00	19
98+00	16.5
102+00	19
111+00	14
116+50	17
122+00	16
126+50	15

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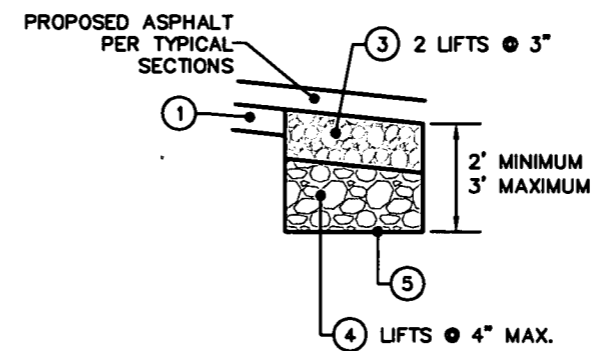
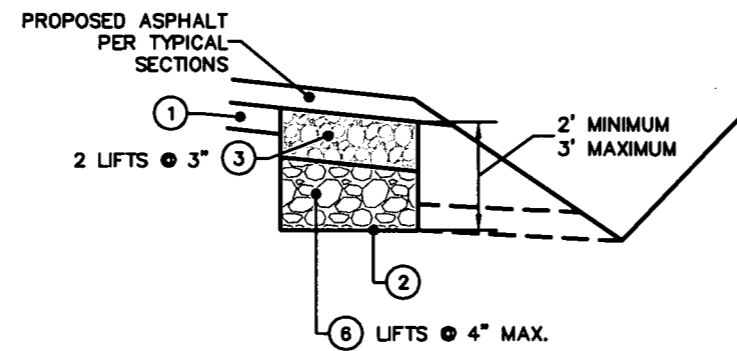
ANTERO RESOURCES  
ROAD IMPROVEMENT PLANS FOR  
CENTRAL STATION ROAD (CR 11)  
DODDRIDGE COUNTY, WEST VIRGINIA  
EXISTING ROAD DATA

PROJECT No.  
101-030-3435  
SHEET No.  
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### LEGEND

- ① EXISTING ROADWAY
- ② ITEM 207034-000: FABRIC FOR SEPARATION
- ③ ITEM 307001-002: AGGREGATE BASE COURSE, STONE OR GRAVEL, CLASS 1
- ④ ITEM 307001-001: AGGREGATE BASE COURSE, STONE OR GRAVEL, CLASS 9
- ⑤ ACF12 GEOGRID
- ⑥ COURSE AGGREGATE, AASHTO #1 (3" CLEAN)



**NOTES:**

- EXCAVATE BOTTOM OF FAILURE TO DEPTH OF SUITABLE MATERIAL, AS DIRECTED.
- UNDERCUTS FOR BASE FAILURES SHALL BE A MINIMUM OF 2' AND MAXIMUM OF 3' IN DEPTH.
- THE DETAIL USED FOR REPAIR WILL VARY PER THE CONDITIONS OF THE UNDERLYING SOIL ONCE EXCAVATIONS ARE MADE TO THE BASE FAILURE.
- BASE AGGREGATE SHALL BE CLASS 9 AGGREGATE UNLESS BLEEDER DRAIN IS NEEDED IN WHICH CASE BASE AGGREGATE SHALL BE AASHTO #1 (CLEAN 3")

**BASE FAILURE REPAIR DETAIL**  
NOT TO SCALE

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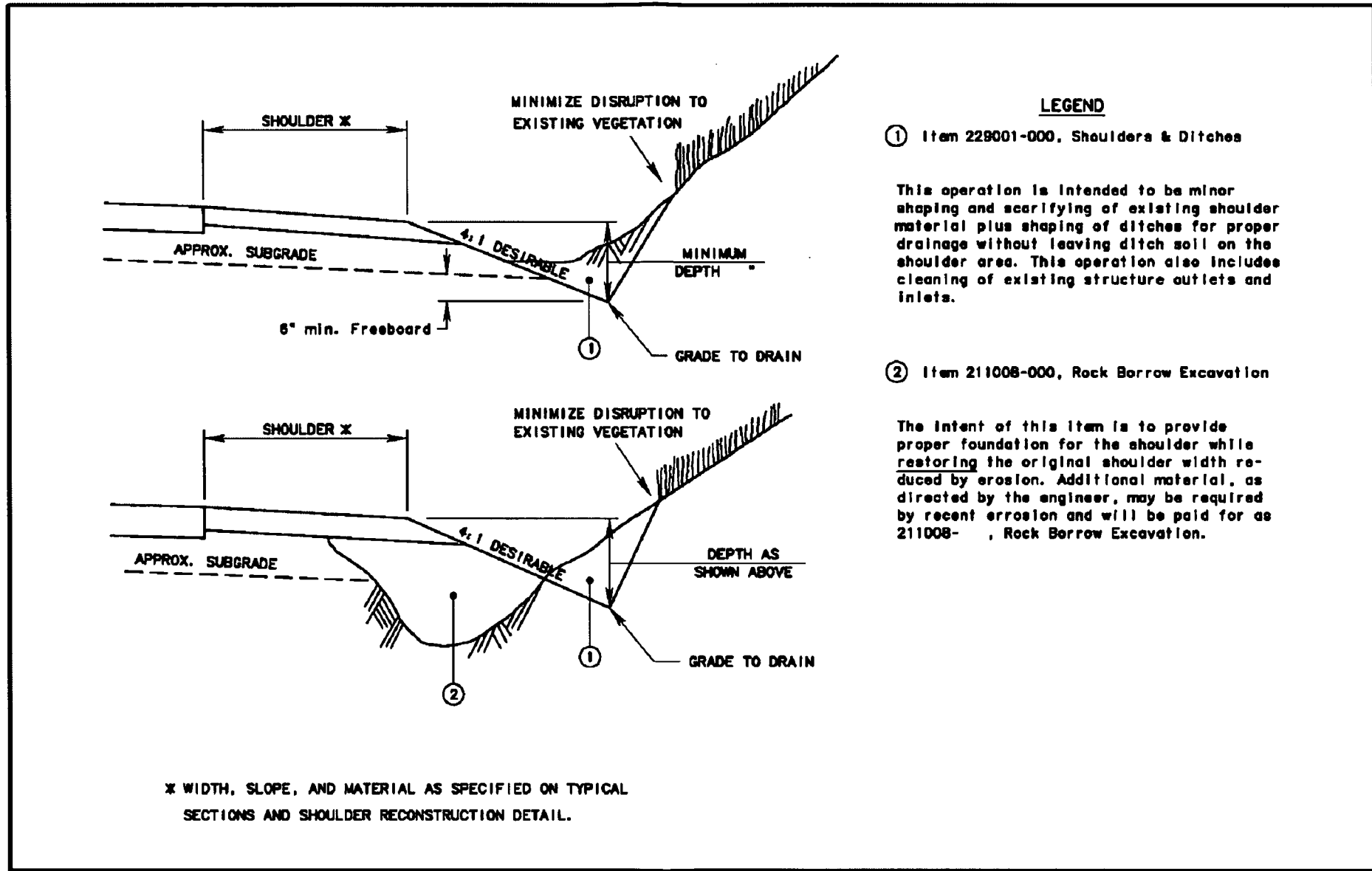
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ANTERO RESOURCES  
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 CENTRAL STATION ROAD (CR 11)  
 DODDRIDGE COUNTY, WEST VIRGINIA  
 MAINTENANCE OF TRAFFIC DETAIL

PROJECT No.  
 101-030-3435  
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- LEGEND**
- ① Item 229001-000, Shoulders & Ditches
  - ② Item 211008-000, Rock Borrow Excavation
- This operation is intended to be minor shaping and scarifying of existing shoulder material plus shaping of ditches for proper drainage without leaving ditch soil on the shoulder area. This operation also includes cleaning of existing structure outlets and inlets.
- The intent of this item is to provide proper foundation for the shoulder while restoring the original shoulder width reduced by erosion. Additional material, as directed by the engineer, may be required by recent erosion and will be paid for as 211008- , Rock Borrow Excavation.

\* WIDTH, SLOPE, AND MATERIAL AS SPECIFIED ON TYPICAL SECTIONS AND SHOULDER RECONSTRUCTION DETAIL.

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS

**SHOULDERS AND DITCHES**

Public Roads Div.	State Dist. No.	State Project No.	Federal Project No.	County
W. V.				

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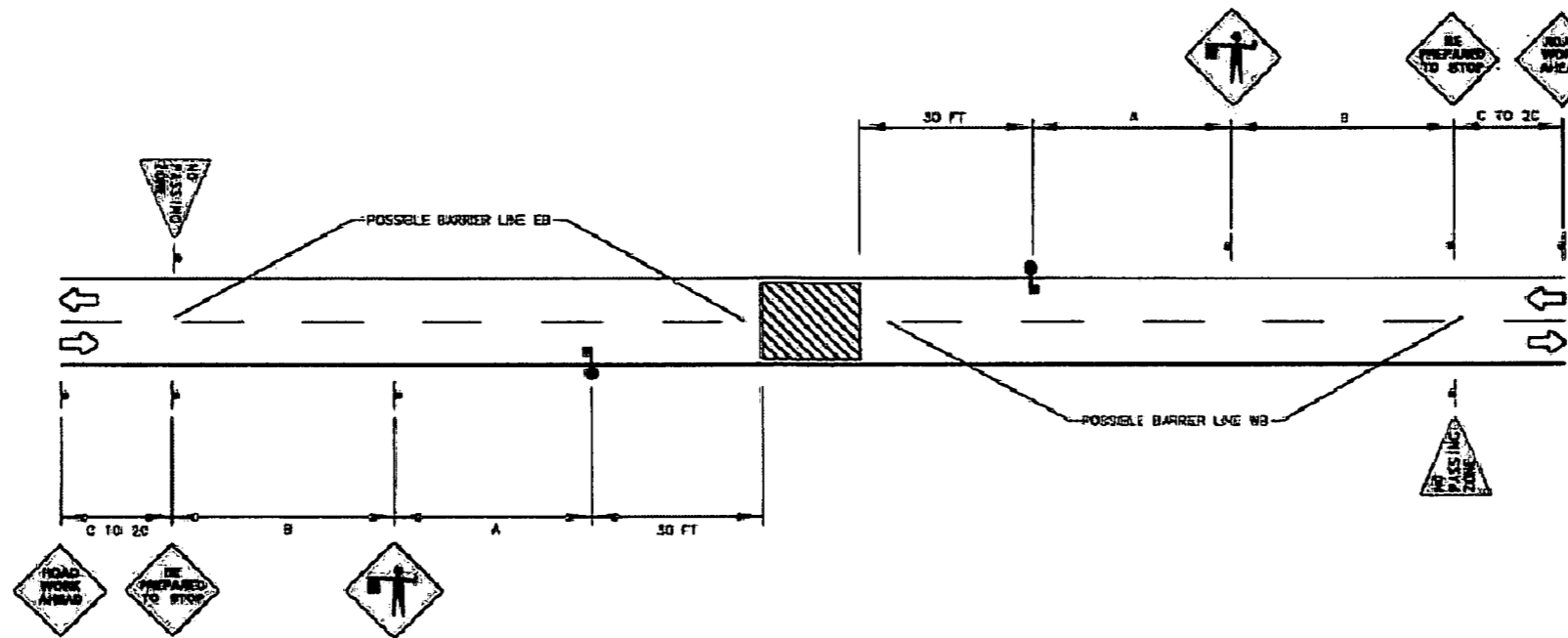


ANTERO RESOURCES  
ROAD IMPROVEMENT PLANS FOR  
CENTRAL STATION ROAD (CR 11)  
DODDRIDGE COUNTY, WEST VIRGINIA  
DETAILS

PROJECT No.  
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### SYMBOLS

- WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT.
- FLAGGER WITH PADDLE.

### TYPICAL APPLICATIONS

SHORT TERM CLOSING  
 SHORT TERM UTILITY CROSSING FOR TWO  
 OR THREE LANE ROADWAYS  
 MAINT. ROADS

### GENERAL NOTES

1. CONDITIONS REPRESENTED ARE FOR A PLANNED CLOSURE NOT EXCEEDING 30 MINUTES DURING THE DAYTIME.
2. THE FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES.
3. FLASHING WARNING LIGHTS AND/OR FLAGS MAY BE USED TO CALL ATTENTION TO THE ABOVE WARNING SIGNS, AS NEEDED ON THE PLANS, AND/OR AS DIRECTED BY THE ENGINEER.

### SUGGESTED ADVANCE WARNING SIGN SPACING

ROAD TYPE	DISTANCE BETWEEN SIGNS (IN FT)		
	A	B	C
URBAN (LOW SPEED)*	100	100	100
URBAN (MEDIUM SPEED)*	350	350	500
RURAL	500	500	500
EXPRESSWAY/FREEWAY	1000	1000	1,000

\*SPEED CATEGORY TO BE DETERMINED BY WV DOR

### CASE A5

TWO-LANE, TWO-WAY TRAFFIC.  
 SHORT TERM OPERATIONS.  
 DAYTIME ONLY.

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