

PIPE CULVERTS  
 NHSN-014-3(54)--2R-63  
 LETTING DATE  
 01-20-2021

**MARION CO.**



## Highway Division

PLANS OF PROPOSED IMPROVEMENT ON THE

# PRIMARY ROAD SYSTEM MARION COUNTY PIPE CULVERTS

0.6 mi S of Co Rd G18

SCALES: As Noted

REVISIONS

TOTAL

PROJECT IDENTIFICATION NUMBER

19-63-014-010

PROJECT NUMBER

NHSN-014-3(54)--2R-63

R.O.W. PROJECT NUMBER

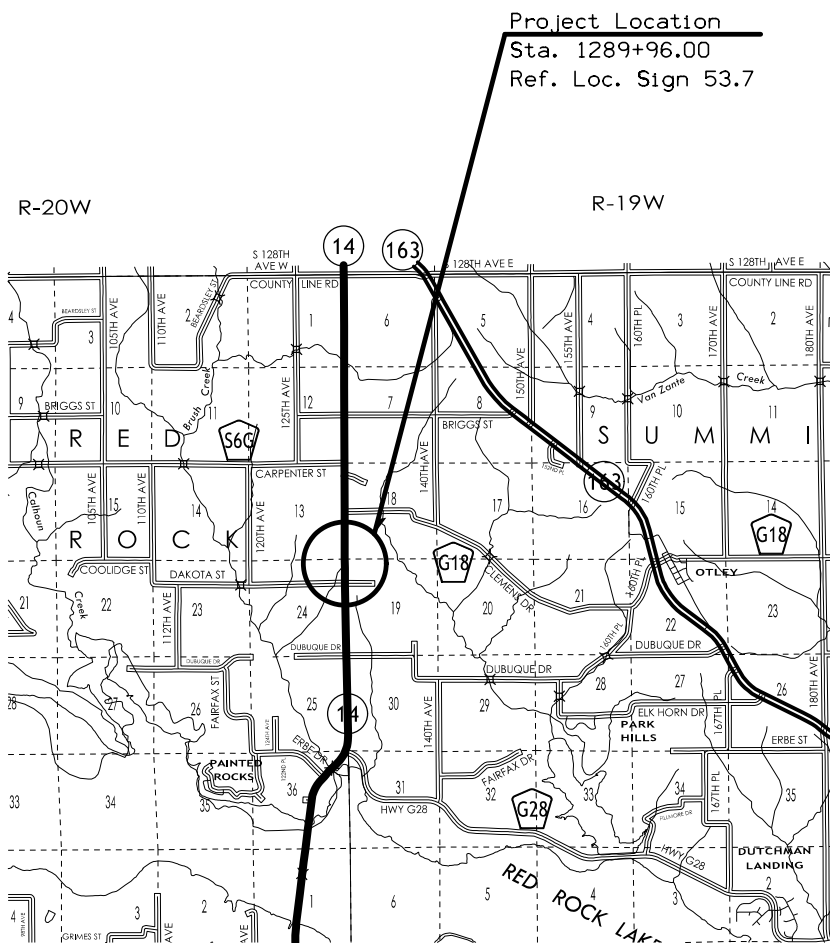
NHSN-014-3(55)--2R-63

### INDEX OF SHEETS

No.	DESCRIPTION
<b>A Sheets</b>	<b>Title Sheets</b>
A.1	Title Sheet
A.1	Location Map Sheet
<b>D Sheets</b>	<b>Mainline Plan and Profile Sheets</b>
* D.1	Plan & Profile Legend & Symbol Information Sheet
* D.2	IA 14
<b>G Sheets</b>	<b>Survey Sheets</b>
G.1	Reference Ties and Bench Marks
G.2	Control Point Vicinity Map
G.3	Horizontal Control Tab. & Super for all Alignments
<b>J Sheets</b>	<b>Traffic Control and Staging Sheets</b>
J.1	Traffic Control Plan
J.1	511 Travel Restrictions
J.1	Coordinated Operations
<b>W Sheets</b>	<b>Mainline Cross Sections</b>
W.1	Mainline Cross Sections
	* Color Plan Sheets

Refer to the Proposal Form for list of applicable specifications.

Value Engineering Saves. Refer to Article 1105.14 of the Specifications.



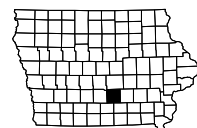
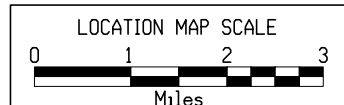
DESIGN DATA			
2017	AADT	3,800	V.P.D.
20--	AADT	--	V.P.D.
20--	DHV	--	V.P.H.
	TRUCKS	12	%
	Total		
	Design ESALs	--	

INDEX OF SEALS		
SHEET NO.	NAME	TYPE
A.1	X	Primary Signature Block
X	X	X

## PRELIMINARY PLANS

Subject to change by final design.

D5 PLAN - Date: 8-13-19
















**SURVEY SYMBOLS**







**UTILITY LEGEND**

- T1 — Windstream Communications (ILEC)  
Joy Matthews  
11101 Anderson Dr. Suite 100  
Little Rock, AR 72212  
WCI.OSP.Permits@Windstream.com  
(501) 748-7654
  
- W — Iowa Regional Utilities Association  
Les Morgan  
1351 Iowa Speedway  
Newton, IA 50208  
lmorgan@ciawa.com  
(641) 792-7011


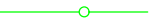
**PLAN VIEW COLOR LEGEND OF PLAN AND PROFILE SHEETS**


LINEWORK		Design Color No.	
Green	(2)		Existing Topographic Features and Labels
Blue	(1)		Proposed Alignment, Stationing, Tic Marks, and Alignment Annotation
Magenta	(5)		Existing Utilities
SHADING		Design Color No.	
Yellow	(4)		Highlight for Critical Notes or Features
Red	(3)		Delineates Restricted Areas
Lavender	(9)		Temporary Pavement Shading
Gray, Light	(48)		Proposed Pavement Shading
Gray, Med	(80)		Proposed Granular Shading
Gray, Dark	(112)		Proposed Grade and Pave Shading "In conjunction with a paving project"
Brown, Light	(236)		Grading Shading
Tan	(8)		Proposed Sidewalk Shading
Blue, Light	(230)		Proposed Sidewalk Landing Shading
Pink	(11)		Proposed Sidewalk Ramp Shading

**PROFILE VIEW COLOR LEGEND OF PLAN AND PROFILE SHEETS**

LINEWORK		Design Color No.	
Green	(2)		Existing Ground Line Profile
Blue	(1)		Proposed Profile and Annotation
Magenta	(5)		Existing Utilities
Blue, Light	(230)		Proposed Ditch Grades, Left
Black	(0)		Proposed Ditch Grades, Median
Rust	(14)		Proposed Ditch Grades, Right

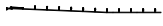
**Reference Point**


Station  Survey Line 


 Section Corner


--- Ground Line Intercept



— Saw Cut

 Guardrail


 Trench Drain


 High Tension Cable Guardrail


 Sheet Pile


 Pavement Removal  Clearing & Grubbing Area


**RIGHT-OF-WAY LEGEND**


 Proposed Right-of-Way


 Existing Right of Way


 Existing and Proposed Right-of-Way

 Easement and Existing Right-of-Way

 Easement (Temporary)

 Easement

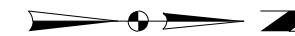
 Access Control

 Property Line

**PLAN AND PROFILE  
LEGEND AND SYMBOL  
INFORMATION SHEET**

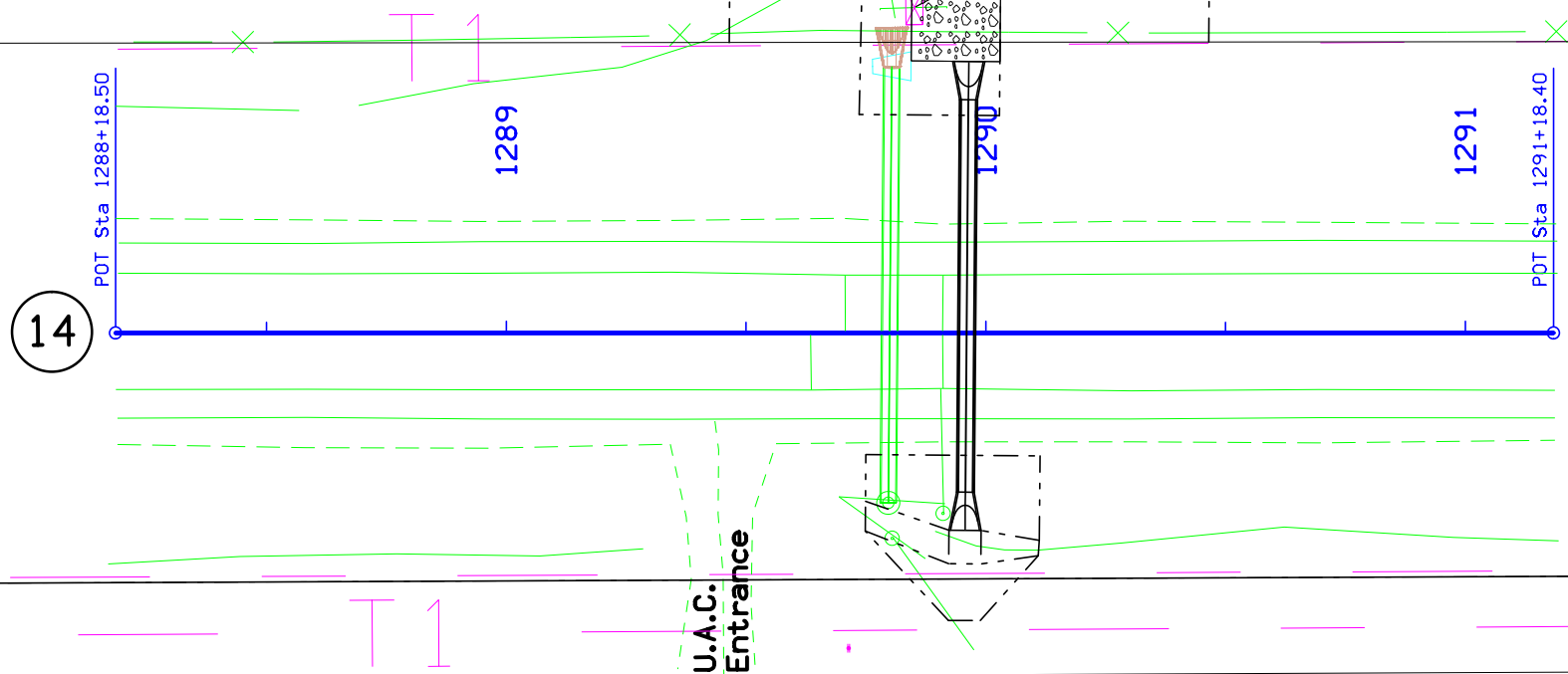
(COVERS SHEET SERIES D, E, F, & K)

Red Rock TWP.  
T-77N R-20W  
SEC. 24



Temporary Easement for  
Trenchless Construction

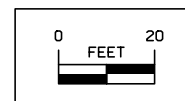
UAC Standpipe  
Place Rip Rap  
around Standpipe  
Shape to Drain



Sta. 1289+80 (Plan FN-231)  
36"x91' RCP  
D.A.=12 A-R (From Plan FN-231)  
**(Plug and Abandon)**

Sta. 1289+96.00  
Install 36" x 82' RCP  
(Trenchless Construction)  
F.L. = Lt. 858.79  
Rt. 863.73

Summit TWP.  
T-77N R-19W  
SEC. 19



Survey Information

**County: Marion**  
**PIN: 19-63-014-010**  
**Project Number: NHSN-014-3(54)--2R-63**  
**Location: 0.6 mi S of Co Rd G18**  
**Type of Work: Pipe Culverts**  
**Project Directory: 6301401019**  
**SAP 0619.2**

**Party Personnel**

Nels Sutherland- Party Chief  
Myron Fox- Assistant Survey Party Chief

**Date(s) of Field Survey**

Begin Date 02/5/2019  
End Date 02/6/2019

**General Information**

Measurement units for this survey are US survey feet. This survey is for conc. pipe modification. No aerial survey was used.

**Vertical Control**

Vertical datum for this survey is NAVD88 (Computed using Geoid12A). GRS80 Ellipsoidal Height was transferred to the project from Iowa RTN reference stations by Network RTK observations.

**Horizontal Control**

The project coordinate system is Iowa Regional Coordinate System Zone 9. (U.S. Survey Feet). Horizontal datum is NAD83 (2011) for Epoch 2010.00. Coordinates were transferred to the project from Iowa RTN reference stations by Network RTK observations.

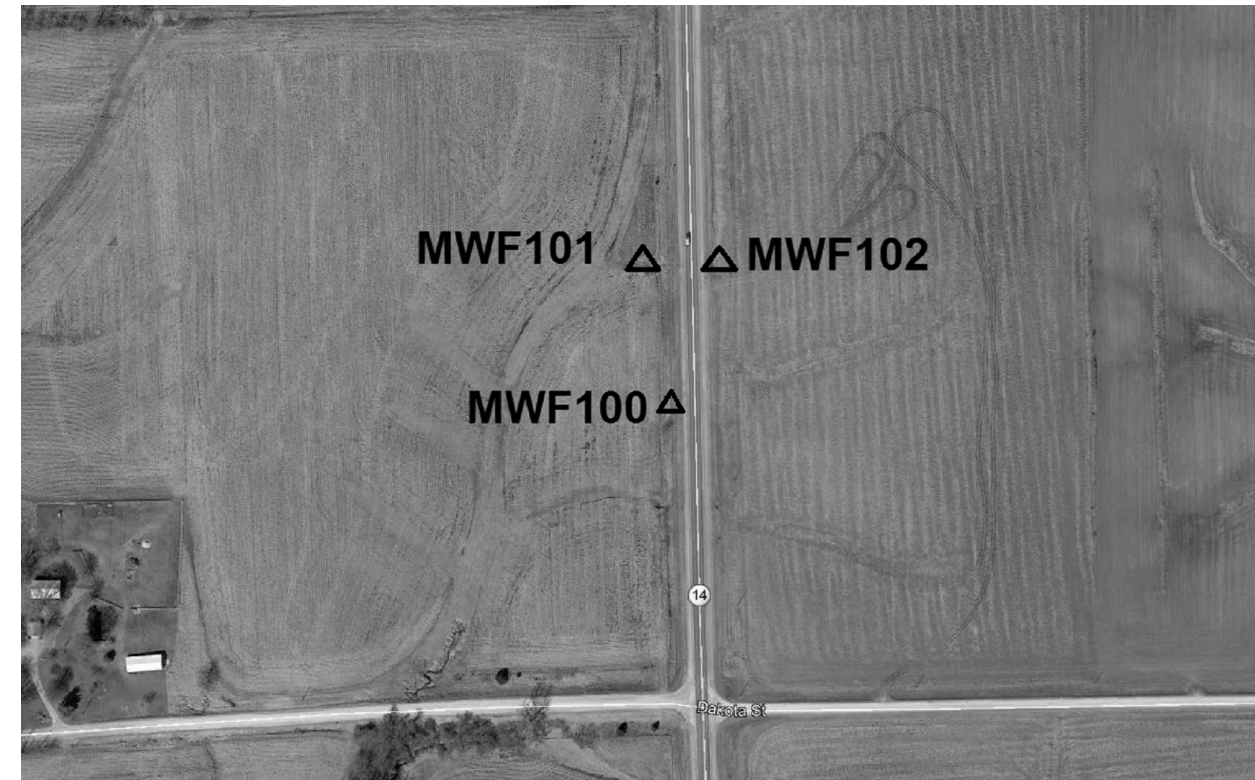
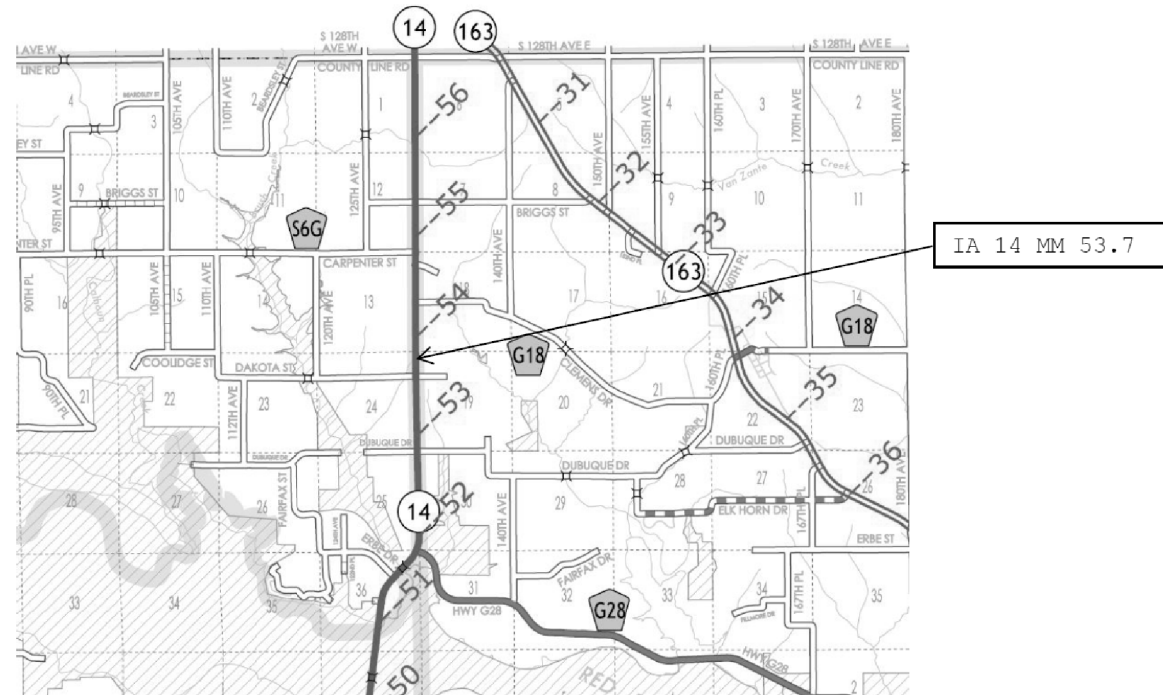
**Alignment Information**

The horizontal alignment for this survey is a retrace of As-built Plans No. I-IG-80-7(7)253. Survey stationing was equated to the plan at Pipe Station 1289+80 and run back and ahead without equation throughout the survey. The apparent CL roadway was used for alignment. No centerline control monuments were recovered.

## CONTROL POINT VICINITY MAP

This map is a guide to the vicinity of the primary project control points  
 Primary control is for use with RTK base stations and for RTN validation.  
 Future surveys will use primary project control to establish temporary  
 control as needed for construction or other surveying applications.

**LOCATION MAP:**



HORIZ. DATUM: NAD83(2011) EPOCH 2010.00

VERT. DATUM: NAVD88

1a. Regional Coordinate System Zone 9

Coordinate listing from next sheet will be used with 1aRTN for monument  
 recovery. No other reference ties are given.

HORIZONTAL AND VERTICAL PROJECT CONTROL COORDINATE LISTING

HORIZ. DATUM: NAD83(2011) EPOCH 2010.00

VERT. DATUM: NAVD88

Ia. Regional Coordinate System Zone 9

NAME	N	E	EL.	DESCRIPTION
MWF100,	7642352.95,	19421983.96,	867.94,	CP X BALL ROW RAIL
MWF101,	7642482.91,	19421989.58,	861.49,	CP X TOP OUTLET 36IN RCP
MWF102,	7642481.52,	19422079.66,	866.50,	CP X TOP INLET 36IN RCP

**Utility Information**

Sub-Surface Utility Mapping Quality Level is in accordance with CI/ASCE 38-02 *Standard Guidelines for the Collection and Depiction of Existing Subsurface Utility Data.*

Remark abbreviations

QLD Quality Level D Lowest guideline quality level

**A One-call design information request (Ticket# 551900498) was made Jan. 21, 2019. The following Companies were listed:**

Company (Quality)	Code	Remark
Midamerican	PPA	Power Pole east ROW
Windstream (QLD)	T1	Buried Telephone Line
IRUA (QLD)	W	Buried Water Line east of ROW

Following are the list of contacts made:

( CIW ) IOWA REGIONAL UTILITY ASSOC  
 Contact Name : HEATHER LOSHAW  
 Contact Phone: 6417927011  
 Contact Email: [lmorgan@ciawa.com](mailto:lmorgan@ciawa.com)  
 Jan 21, 2019 Michael Marden of IRUA provided a map indicating 3"water approx.. 11 ft. outside the east ROW.

( M60E ) MIDAMER-ELEC  
 Contact Name : Jason Sandifer  
 Contact Phone: 6416727008  
 Contact Email: [jwsandifer@midamerican.com](mailto:jwsandifer@midamerican.com)  
 Jan 21, 2019 Jason Sandifer of Mid American provided a map indicating overhead power and poles in the east ROW.

( WINIA ) WINDSTREAM COMMUNICATIONS  
 Contact Name : LOCATE DESK  
 Contact Phone: 8002891901  
 Contact Email: [LOCATE.DESK@WINDSTREAM.COM](mailto:LOCATE.DESK@WINDSTREAM.COM)  
 Jan 26, 2019 Jean Lander of Windstream provided a map indicating underground telephone in the east and west ROW.

<b>108-23A</b> 08-01-08
<b>TRAFFIC CONTROL PLAN</b>
IA 14 traffic shall be maintained at all times.

<b>111-01</b> 04-17-12						
<b>COORDINATED OPERATIONS</b>						
Other work in progress during the same period of time will include the construction of the projects listed. Coordinate operations with those of other contractors working within the same area.						
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;">Project</th> <th style="width: 50%;">Type of Work</th> </tr> </thead> <tbody> <tr> <td>None Provided</td> <td></td> </tr> <tr> <td> </td> <td> </td> </tr> </tbody> </table>	Project	Type of Work	None Provided			
Project	Type of Work					
None Provided						

<b>511 TRAVEL RESTRICTIONS</b>												<b>108-25</b> 10-21-14
Route	Direction	County	Location Description	Feature Crossed	Object Type	Maint. Bridge No., Structure ID, or FHWA No.	Type of Restriction	Existing Measurement	Construction Measurement	Construction Measurement as Signed	Projected As Built Measurement	Remarks
			No travel restriction expected.									

# IA 14 Preliminary

