



**US Army Corps
of Engineers** ®
Rock Island District

PUBLIC NOTICE

Applicants: City of West Des Moines
CEMVR-OD-P-2020-1624

Date: March 18, 2021
Expires: April 16, 2021
Section 404

**Joint Public Notice
US Army Corps of Engineers
Iowa Department of Natural Resources**

- 1. Applicant:** City of West Des Moines, c/o: Mr. Brian Hemesath, 4200 Mills Civic Parkway, Suite D, West Des Moines, Iowa 50265.
- 2. Project Location:** The project is located above Johnston Creek, along Booneville Road, north of CR F90/Raccoon River Drive, east of South 115th Street, south of 335th Street, and southwest of South 100th Street, in Section 21, Township 78 North, Range 26 West, Dallas County, Iowa. UTM NAD-83 Zone 15, Latitude 41.537017, Longitude -93.859459.
- 3. Project Description:** The Applicant proposes to remove three culverts under Booneville Road and replace them with a single bridge. Impacts to Waters of the U.S., will occur through the placement of fill and removal of two stream channels. Specifically, this project will involve the loss of 650 linear feet of stream. The 90 linear feet of WUS-2A will be filled in addition to 560 linear feet of WUS-2B. The portion of these stream channels will be completely filled in. The applicant states that even though the impacts will be higher by filling in the two smaller stream channels than replacing the three culverts, by removing the undersized culvert in Johnson Creek this is more environmentally beneficial. Johnson Creek's culvert is proposed to be removed and its natural stream bottom will be restored. The applicant proposes to purchase credits from a mitigation bank and generate some credits from removing the culvert in Johnson Creek. Alternatives, both on-site and off-site will be evaluated to ensure compliance with the 404(B)1 guidelines.
- 4. Purpose and Need:** The City of West Des Moines is proposing to remove three culverts under Booneville road and replace with a single bridge. Currently there are three culverts, and the City proposes to remove the three culverts, fill in two of the streams, and place a single bridge over Johnson Creek. The applicant proposes to replace the three culverts with one crossing in order to save effort and money. They believe it will be more cost effective to build one crossing rather than three separate crossings.
- 5. Agency Review:**
 - a. Department of the Army, Corps of Engineers. The Department of the Army application is being processed under the provisions of Section 404 of the Clean Water Act (33 U.S.C. 1344).

b. State of Iowa. The project plans have been submitted to the Iowa Department of Natural Resources for state certification of the proposed work in accordance with Section 401 of the Clean Water Act. The certification, if issued, will express the Department's opinion that the proposed activity will comply with Iowa's water quality standards (Chapter 61 IAC). The applicant has also applied for authorization of work in the floodplain pursuant to Chapter 455B of the Iowa Code and other applicable state permits. Written comments concerning possible impacts to waters of Iowa should be addressed to: Iowa Department of Natural Resources, 502 E. 9th Street, Des Moines, Iowa 50319. A copy of the comments should be provided to the Corps of Engineers office (see paragraph 12. of this public notice for address).

6. **Historical/Archaeological:** The Corps consulted with the Iowa I-Sites online geographic information systems (GIS) archeological site and survey databases (including the HILD data layer) and there were no sites in proximity of the project area shown on the I-Sites GIS website. The applicant had a Phase 1 Archeologic Survey completed and no sites were discovered. As I-Sites and the Phase 1 Survey did not indicate the presence of historic or cultural sites, it is the District's opinion that there will be **no affect historic properties**. Coordination will be conducted with the Iowa SHPO.

7. **Endangered Species:** District staff has performed a preliminary review of this application for the potential impact on threatened or endangered species pursuant to Section 7 of the Endangered Species Act as amended. The following threatened or endangered species are listed by the United States Fish and Wildlife Service as occurring in Polk County, Iowa: (<https://ecos.fws.gov/ipac/>)

- Indiana bat (*Myotis sodalis*) & Northern long-eared bat (*Myotis septentrionalis*) – The project area is located along a busy road corridor near residential development. The project area is not in a well-developed riparian/wooded area; therefore, the Corps has determined there will be **no effect** on these bats.
- Topeka Shiner (*Notropis topeka* [=tristis]) – This project overlaps with critical habitat for this species but based on previous coordination with the United States Fish and Wildlife Service, this location is south of the southernmost known locations of this species. A threatened and endangered species report was submitted by the applicant's consultant and it stated that suitable habitat was not found on site for this species. Based on this information, the Corps has made a **no effect determination**.
- Prairie Bush-clover (*Lespedeza leptostachya*) – The project site does not contain dry to mesic prairies with gravelly soils; therefore, the Corps has determined there be **no effect** to this species.
- Western Prairie Fringed Orchid (*Platanthera praeclara*) – The project site does not contain mesic to wet unplowed tallgrass prairies and meadows, therefore the Corps has determined there be **no effect** to this species.

8. **Dredge/Fill Material Guidelines:** The evaluation of the impact of the proposed activity on the public interest will also include application of the guidelines promulgated by the Administrator of the United States Environmental Protection Agency under authority of Section 404(b) of the Clean Water Act (40 CFR Part 230).

9. Public Interest Review: The decision whether to issue the Corps permit will be based on an evaluation of the probable impact including cumulative impacts of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefit 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 the cumulative effects thereof; among those are conservation, economics, aesthetics, general environmental concerns, wetlands, cultural values, fish and wildlife values, flood hazards, floodplain values, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food production and, in general, the needs and welfare of the people.

10. Who Should Reply: The Corps of Engineers 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 Corps of Engineers to determine whether to issue, modify, condition 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. These statements should be submitted on or before the expiration date specified at the top of page 1. These statements should bear upon the adequacy of plans and suitability of locations and should, if appropriate, suggest any changes considered desirable.

11. Public Hearing Requests: Any person may request, in writing, within the comment period specified in this notice, that a public hearing be held to consider this application. Requests for public hearings shall state, with particularity, the reasons for holding a public hearing. A request may be denied if substantive reasons for holding a hearing are not provided.

12. Reply to the Corps. Comments concerning the Corps permit should be addressed to the District Engineer, US Army Corps of Engineers, Rock Island District, ATTN: RD (MEINCKE), Clock Tower Building - Post Office Box 2004, Rock Island, Illinois 61204-2004. For additional information contact **Mr. Alex Meincke 309-794-5368**) or email: alexander.c.meincke@usace.army.mil.

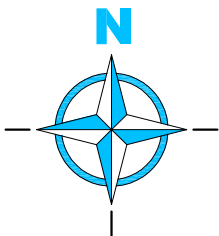
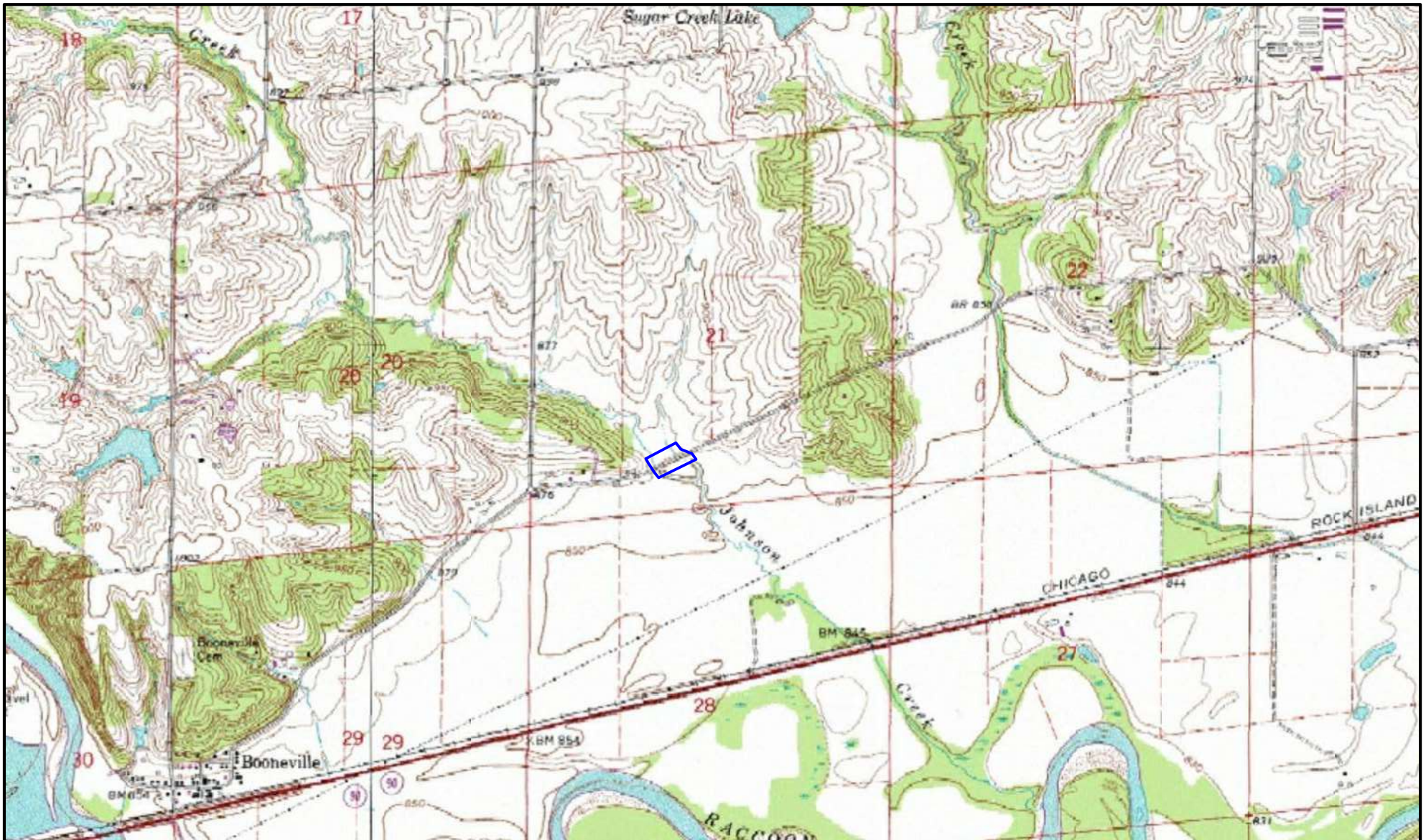
matthew a zehr

Attach
Plan

Mr. Matthew A. Zehr
Chief, Western Branch
Regulatory Division

REQUEST TO POSTMASTERS: Please post this notice conspicuously and continuously until the expiration date specified at the top of page 1.

NOTICE TO EDITORS: This notice is provided as background information for your use in formatting news stories. This notice is not a contract for classified display advertising.



LEGEND

—— - PERMIT AREA

**CEMVR-RD-2020-1624
Topographic Map - Attach 1 of 5**

USGS TOPOGRAPHIC MAP

**BOONEVILLE ROAD
BRIDGE AT JOHNSON CREEK
S 100TH ST TO S 115TH ST
WEST DES MOINES, IOWA**

0 APPROXIMATE DRAWING SCALE 2000 Feet

Project ID #: 20J014.00

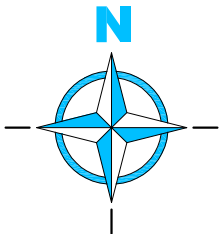
Date: 02/10/2021

Prepared By: ESM

Checked By: RPB



Foth Infrastructure & Environment, LLC



LEGEND

- - PERMIT AREA
- - WUS
- - WUS IMPACT
- - DRAINAGE FEATURE

**CEMVR-RD-2020-1624
Wetland-WUS Delineation
Attach 2 of 5**

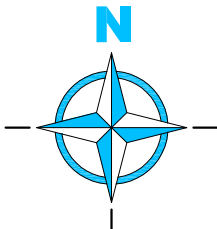
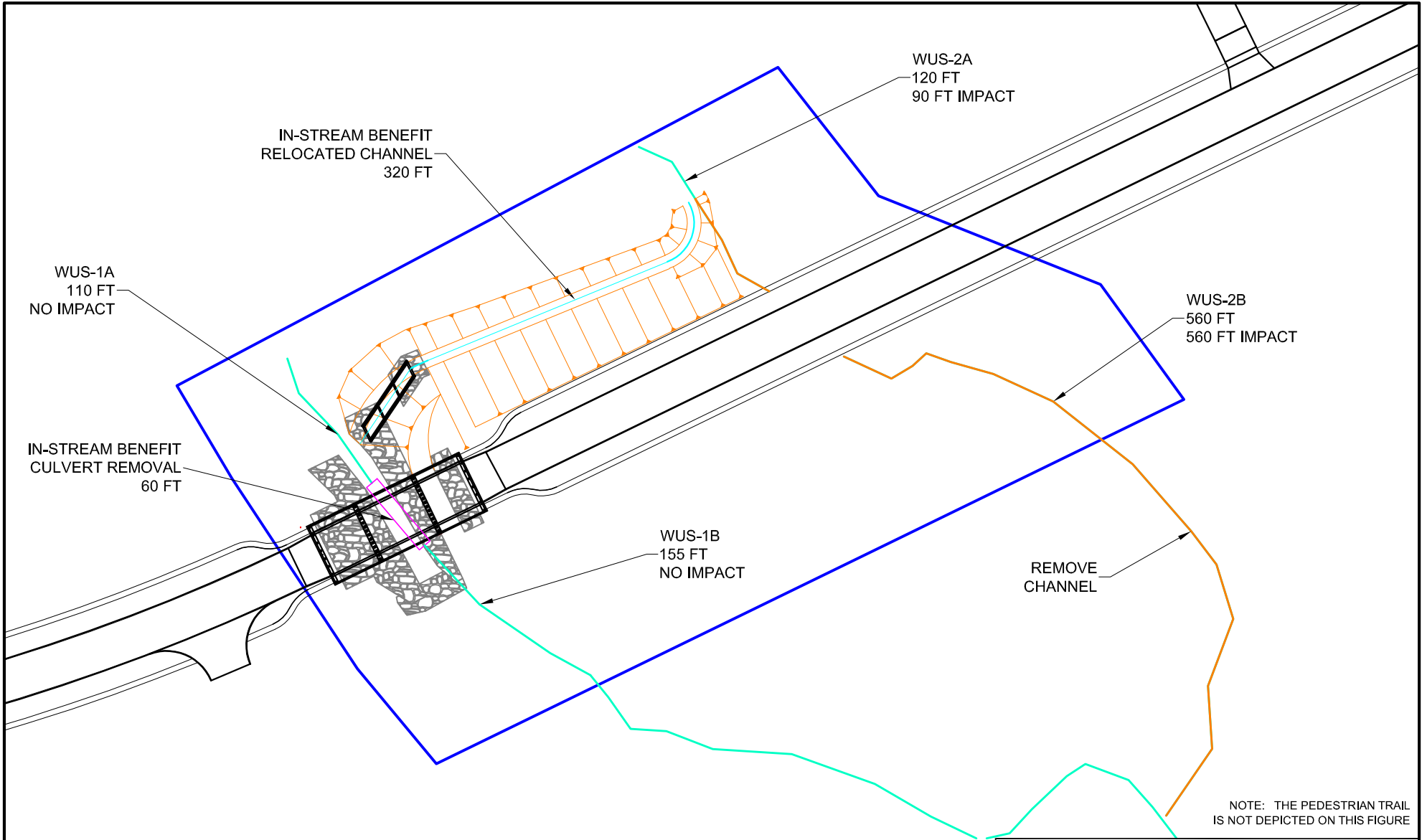
WETLAND & WUS DELINEATION MAP

BOONEVILLE ROAD
BRIDGE AT JOHNSON CREEK
S 100TH ST TO S 115TH ST
WEST DES MOINES, IOWA

0 APPROXIMATE DRAWING SCALE 200 Feet Project ID #: 20J014.00

Date: 02/10/2021
Prepared By: ESM
Checked By: RPB





- LEGEND**
- - PERMIT AREA
 - - WUS
 - - WUS IMPACT

CEMVR-RD-2020-1624
Proposed WUS Impacts
 Attach 3 of 5

PROPOSED WUS IMPACTS		
BOONEVILLE ROAD BRIDGE AT JOHNSON CREEK S 100TH ST TO S 115TH ST WEST DES MOINES, IOWA		
0	APPROXIMATE DRAWING SCALE	100
		Feet
Date: 02/10/2021		 Foth Infrastructure & Environment, LLC
Prepared By: ESM		
Checked By: RPB		
		Project ID #: 20J014.00
		4

BOONEVILLE ROAD BRIDGE REPLACEMENT - CCS WEST DES MOINES, IOWA

WEST DES MOINES PROJECT NO. 0510-005-2021
JEO PROJECT NO. 201700.00



800.723.8567

BOONEVILLE ROAD
BRIDGE REPLACEMENT - CCS
WEST DES MOINES, IOWA
WDM Project No. 0510-005-2021

TITLE SHEET

PROJECT NO.	201700.00
DATE	2/17/2021
DRAWN BY	twallen
FILE NAME	S-20170000-A01 - Bridge.dgn
FIELD BOOK	FIELDBOOK
FIELD CREW	FC INI
SURVEY FILE NO.	SURVEY FILE NO
PLAN IN HAND	PH INI
INITIALS	PH DATE
DATE	70% DATE
70 PERCENT REVIEW	INITIALS
INITIALS	70% INI
DATE	70% DATE
95 PERCENT REVIEW	INITIALS
INITIALS	95% INI
DATE	95% DATE
REVISIONS	

A.01

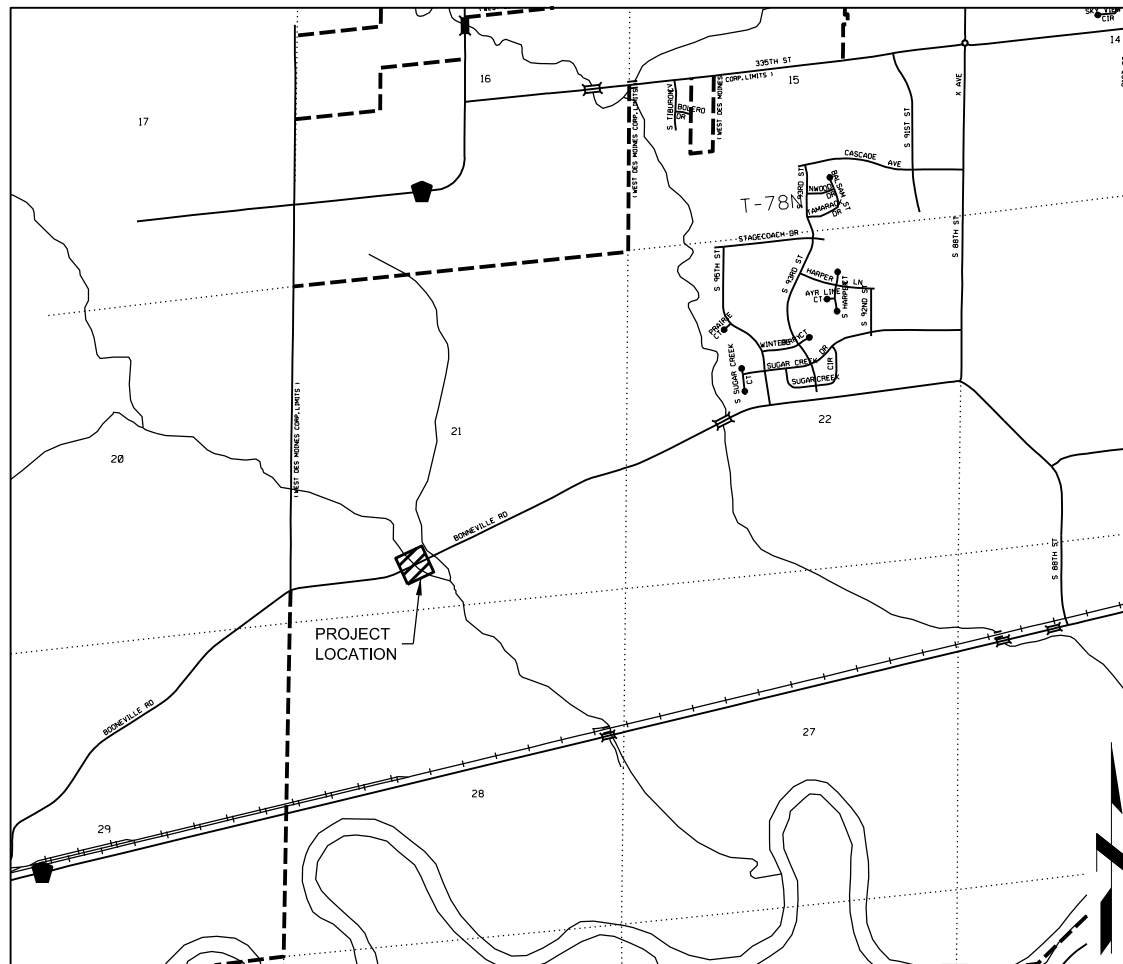
INDEX OF SEALS		
SHEET NO.	NAME	TYPE
A.01	DALLAS SCHECHINGER	PRIMARY SIGNATURE BLOCK

URBAN DESIGN STANDARDS 2020 EDITION					
THE FOLLOWING STANDARD DETAILS SHALL BE CONSIDERED APPLICABLE TO CONSTRUCTION WORK ON THIS PROJECT.					
NUMBER	DATE	NUMBER	DATE	NUMBER	DATE
2010.101	10-21-14	6010.401	04-18-17	7030.204	10-20-15
2010.102	10-21-14	6010.505	04-18-17	7030.205	10-20-15
		6010.506	04-18-17	7030.207	10-16-12
3010.101	04-17-18	6010.512	04-18-17	7030.210	10-16-12
3010.102	04-16-19	6010.513	04-18-17		
3010.104	04-17-18	6010.514	04-18-17	8030.101	10-17-17
3010.901	10-21-14	6010.602	04-21-15	8030.102	10-17-17
		6010.603	04-17-18	8030.116	10-17-17
4020.211	04-17-18	6010.604	04-17-18		
4040.211	04-17-18			9040.102	10-17-17
4040.231	10-21-14	7010.101	04-16-19	9040.119	10-21-14
4040.232	10-18-16	7010.102	10-18-16	9040.120	10-21-14
4040.233	10-18-16	7010.103	04-19-11		
		7010.901	10-16-12		
5010.101	10-18-16	7010.904	10-19-10		
		7030.104	10-21-14		
		7030.201	10-20-15		

THE 2020 EDITION OF THE SUDAS STANDARD SPECIFICATIONS SHALL APPLY TO ALL WORK PERFORMED ON THIS PROJECT UNLESS OTHERWISE NOTED HEREIN, OR WITHIN THE WEST DES MOINES WATER WORKS SUPPLEMENTAL SPECIFICATIONS OR PROJECT SPECIAL PROVISIONS.

STANDARD NOTES (WEST DES MOINES WATER WORKS):

- ALL WATER WORK, PUBLIC OR PRIVATE, SHALL BE DONE IN ACCORDANCE WITH WEST DES MOINES WATER WORKS STANDARD SPECIFICATIONS.
- CONTRACTOR SHALL NOTIFY WEST DES MOINES WATER WORKS (515-222-3465) AT LEAST ONE WEEK PRIOR TO CONSTRUCTION.
- ANY WATER USE FROM A HYDRANT, PUBLIC OR PRIVATE, REQUIRES THE USE OF A WEST DES MOINES WATER WORKS HYDRANT METER. CALL 515-222-3465 TO RESERVE A METER.
- THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE WITH THE WEST DES MOINES WATER WORKS AND THE CITY'S CROSS CONNECTION CONTROL/CONTAINMENT PROVISIONS.
- IF NECESSARY, THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER INSTALLATION OF AN APPROVED BACKFLOW PREVENTION ASSEMBLY(IES) FOR CONTAINMENT IN ALL NEW CONSTRUCTION. BACKFLOW PREVENTION TO BE INSTALLED PER CITY ORDINANCE 1297, 54-1998. CONTRACTOR SHALL NOTIFY WEST DES MOINES WATER WORKS, RALPH RENTERIA, ENGINEERING TECHNICIAN (515-222-3465) A MINIMUM OF 24 HOURS AFTER INSTALLATION AND TESTING OF ALL BACKFLOW DEVICES TO SCHEDULE FINAL INSPECTION.




VICINITY MAP
NOT TO SCALE

CEMVR-RD-2020-1624 - Attach 4 of 5



INDEX OF SHEETS

SHEET NO	SHEET NAME
**A.01	TITLE SHEET
V.01	BRIDGE SITUATION PLAN (INFORMATION ONLY)
	** COLOR PLANS



I HEREBY CERTIFY THAT THIS ENGINEERING DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECT PERSONAL SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF IOWA

Dallas R. Schechinger **2-17-21**

SIGNATURE DATE

DALLAS R. SCHECHINGER

PRINTED OR TYPED NAME

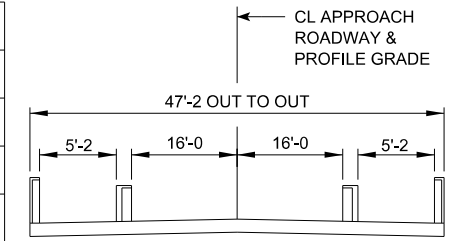
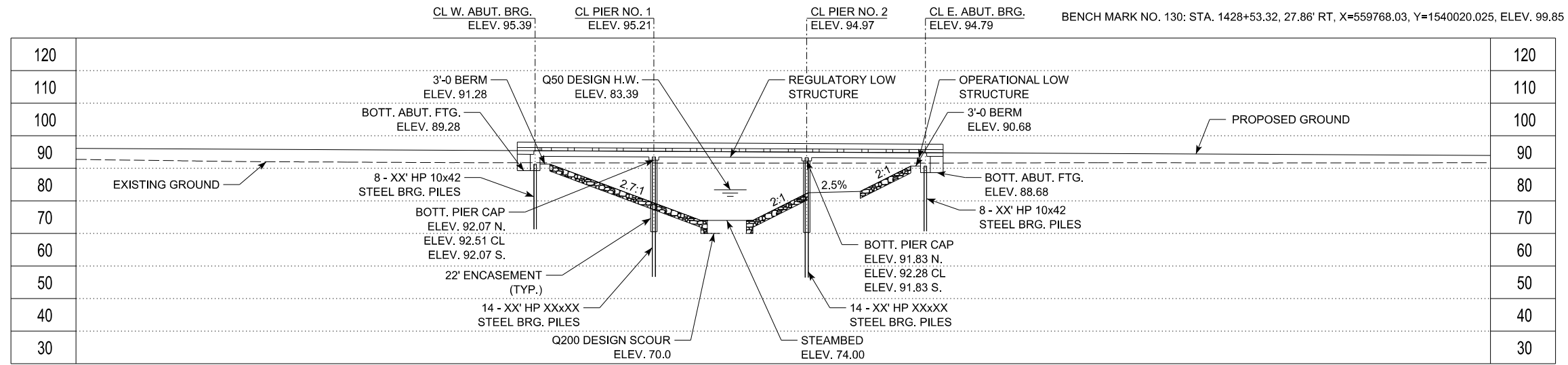
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MY LICENSE RENEWAL DATE IS: DEC. 31, 2022

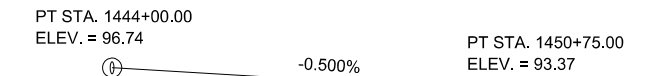
PAGES OR SHEETS COVERED BY THIS SEAL:

ALL SHEETS

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LONGITUDINAL SECTION ALONG CENTERLINE APPROACH ROADWAY
(NOTE: CENTERLINE ELEVATIONS SHOWN ARE AT PROFILE GRADE LINE)



PROPOSED PROFILE GRADE

HYDRAULIC DATA

DRAINAGE AREA = 5.04 SQ. MI.
STREAM SLOPE = 41.2 FT./MI.
AVG. LOW WATER STAGE = 75.0

Q50 = 2,560 CFS
STAGE = 83.39
REGULATORY LOW STRUCTURE = 92.95
AVG. BRIDGE VELOCITY = 6.8 FPS

Q100 = 3,140 CFS
STAGE = 84.22
OPERATIONAL LOW STRUCTURE = 92.67
BACKWATER = 0.29 FT.
AVG. BRIDGE VELOCITY = 7.1 FPS

Q200 = 3,740 CFS
STAGE = 84.75
CALCULATED DESIGN SCOUR = 70.0

Q500 = 4,550 CFS
STAGE = 85.21
AVG. BRIDGE VELOCITY = 8.7 FPS
CALCULATED CHECK SCOUR = 68.6

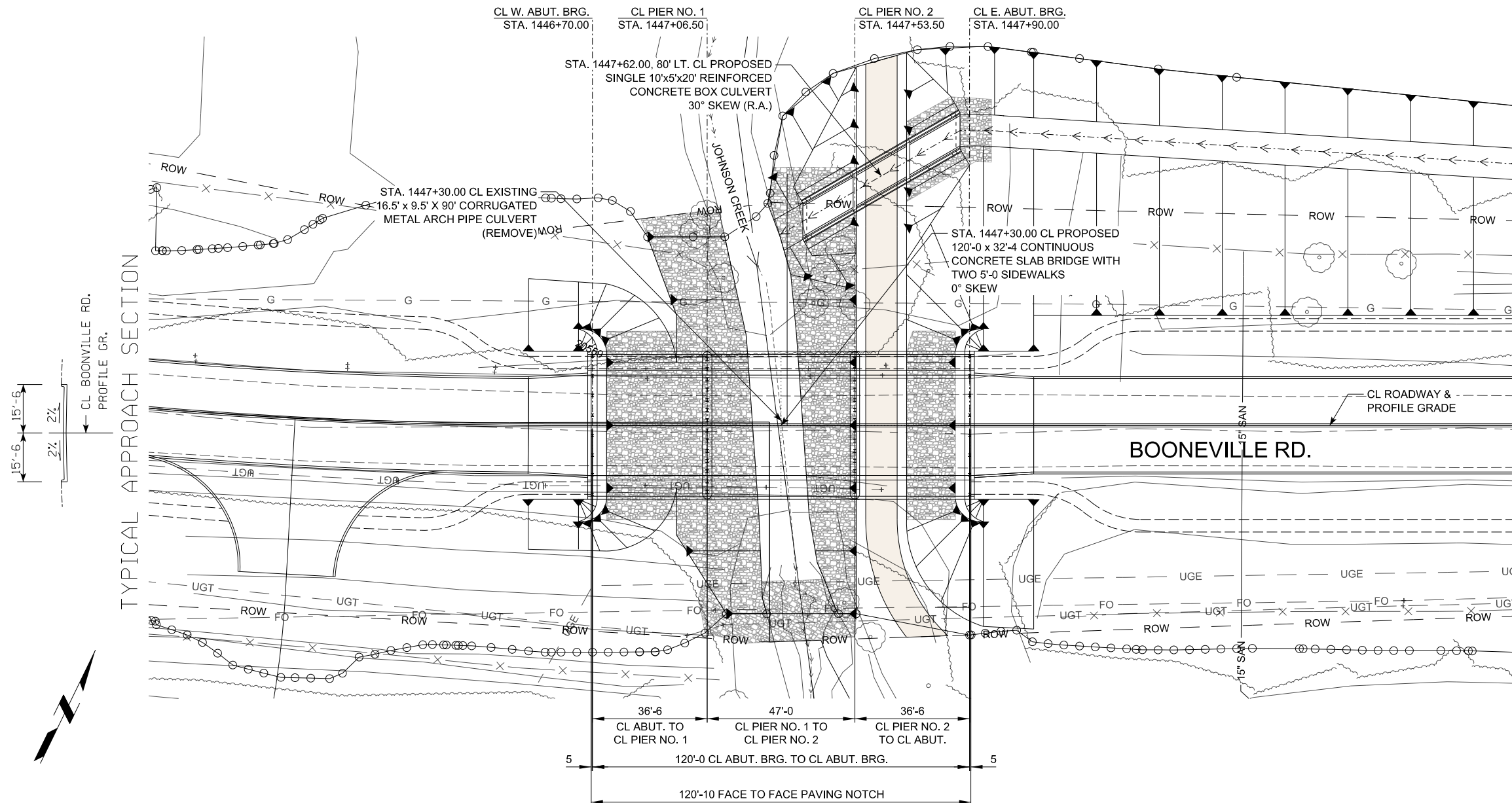
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DATE = UNKNOWN

LOCATION

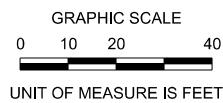
BOONEVILLE ROAD
OVER JOHNSON CREEK
T-78N R-26W
SECTION 21
BOONE TOWNSHIP
DALLAS COUNTY
LATITUDE 41.536872°
LONGITUDE -93.860086°

TRAFFIC ESTIMATE

2020 AADT	500	V.P.D.
2024 AADT	10,000	V.P.D.
2024 DHV		V.P.H.
TRUCKS	X	%
TOTAL DESIGN ESALs		



SITUATION PLAN
CEMVR-RD-2020-1624 - Attach 5 of 5



File Name and Location: P:\Engineering\201700-00 - West Des Moines Booneville Road Reconstruction 100m Street to 115th Street\7 Design\Drawings\Sheets\S-20170000-V03 - Copy.dgn
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