



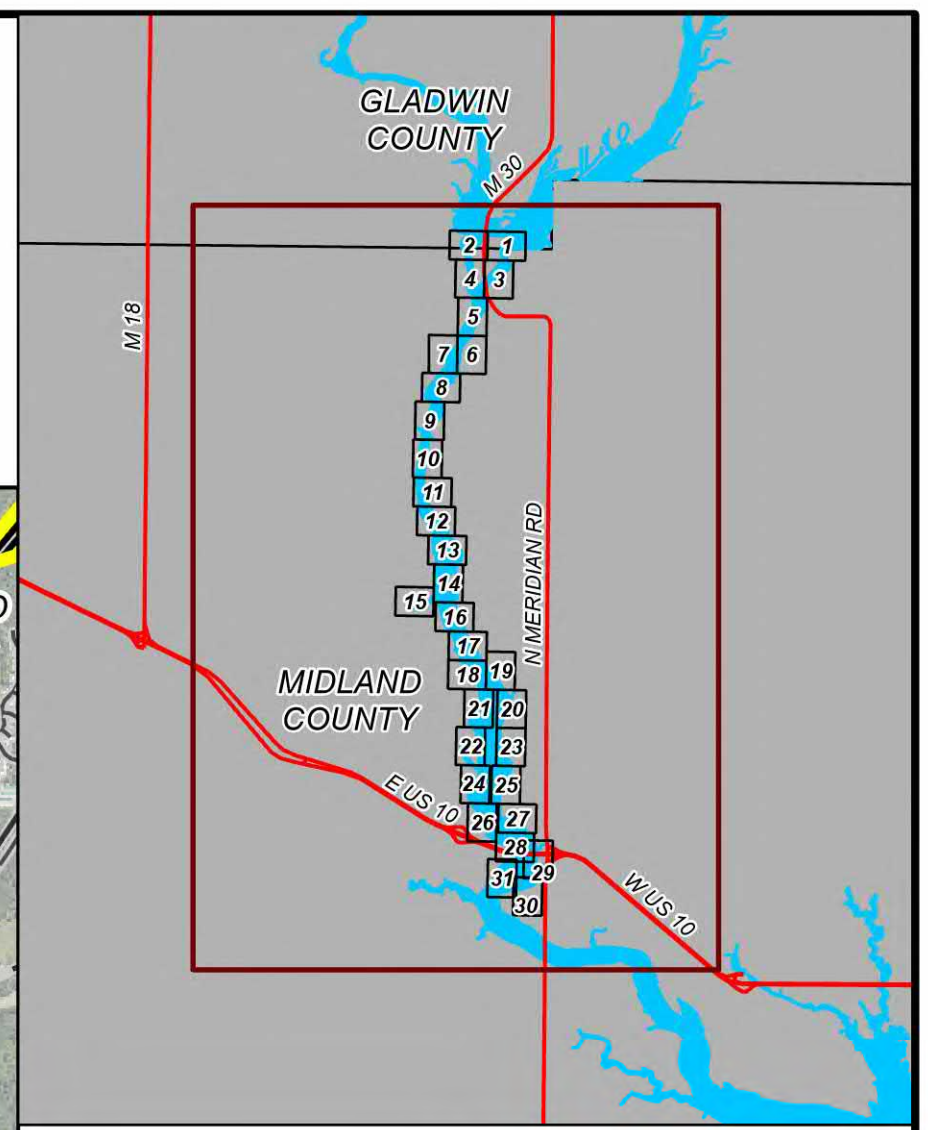
FEMA FLOODPLAIN TOPOGRAPHIC WORK MAP

MIDLAND AND GLADWIN COUNTIES, MICHIGAN

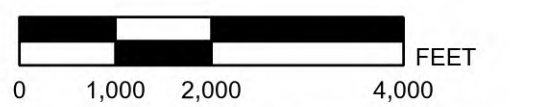
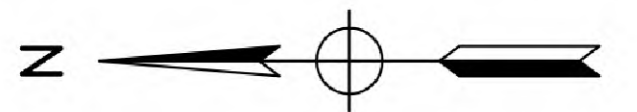
FOUR LAKES TASK FORCE - DAVID KEPLER

NOTES:

1. HORIZONTAL DATUM: MICHIGAN COORDINATE SYSTEM OF 1983, SOUTH ZONE, LAMBERT CONFORMAL PROJECTION OF THE NORTH AMERICAN DATUM OF 1983
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AREA MAP
NOT TO SCALE



LEGEND

- FEMA FIS 100-YR FLOW FLOODPLAIN: PROPOSED DAM CONDITIONS
- FEMA EFFECTIVE ZONE AE FLOODPLAIN
- FEMA EFFECTIVE ZONE A FLOODPLAIN
- PROPOSED PROFILE BASELINE
- PROPOSED MODEL CROSS SECTION
- DAM CENTERLINE
- PROPOSED 100-YR BASE FLOOD ELEVATION (NAVD 88)
- MUNICIPALITY BOUNDARIES
- STATE ROADS
- COUNTY ROADS
- LOCAL ROADS



BY	MARK	REVISIONS	DATE

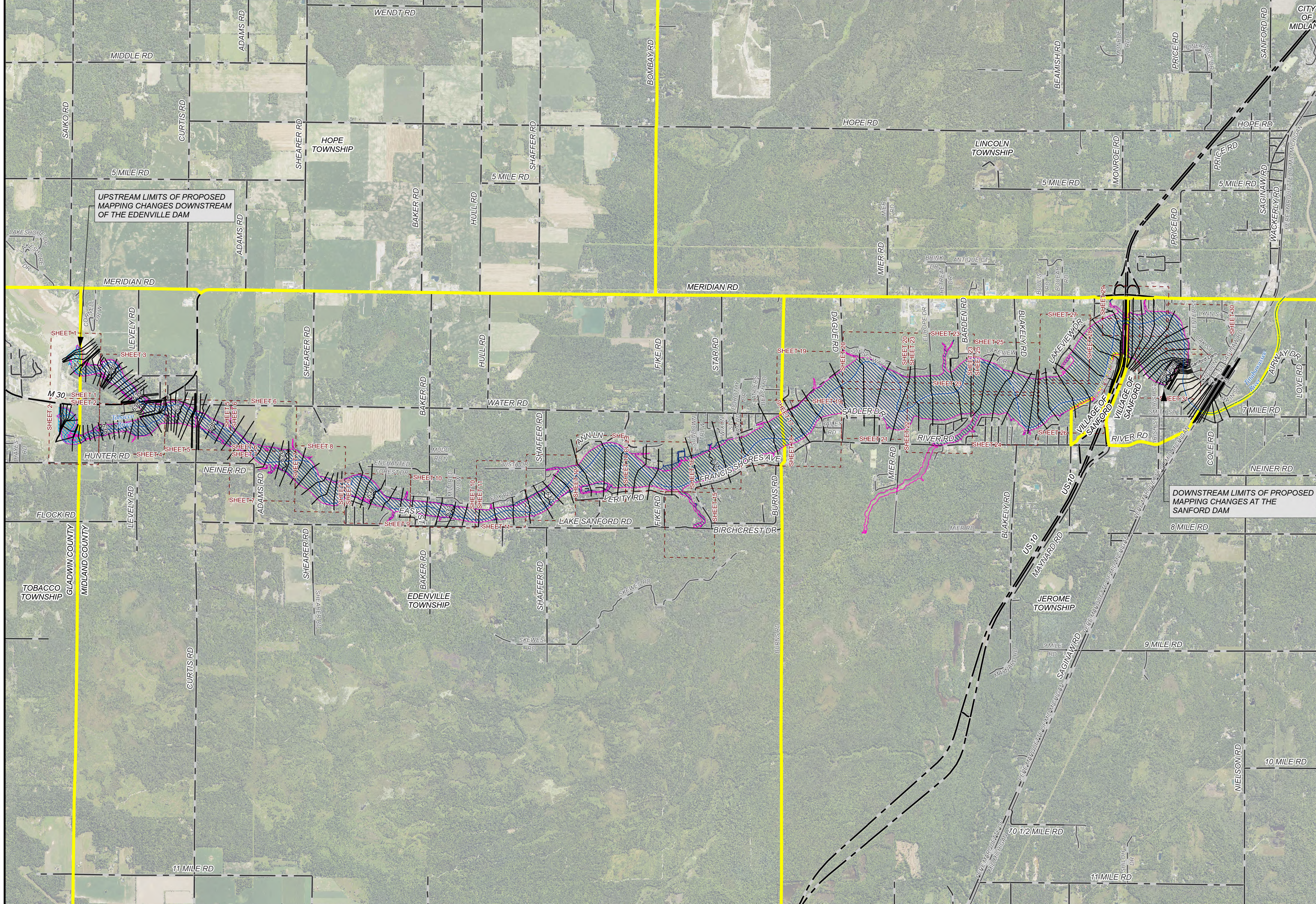
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SANFORD LAKE
MIDLAND COUNTY, MICHIGAN

FEMA TOPOGRAPHIC WORK MAP

Spicer group
SAGINAW'S OFFICE
230 S. Washington Ave
Saginaw, MI 48607
Tel. 989-754-4747
www.SpicerGroup.com

DE BY: JDW	CH BY: JDW	PROJECT NO.
DR BY: MKB	APP BY: SKR	126234SG2018
STDS.	COVER SHEET	
DATE: OCTOBER 2023	FILE NO.	
SCALE: 1 IN. = 2,000 FT	DR-4499	



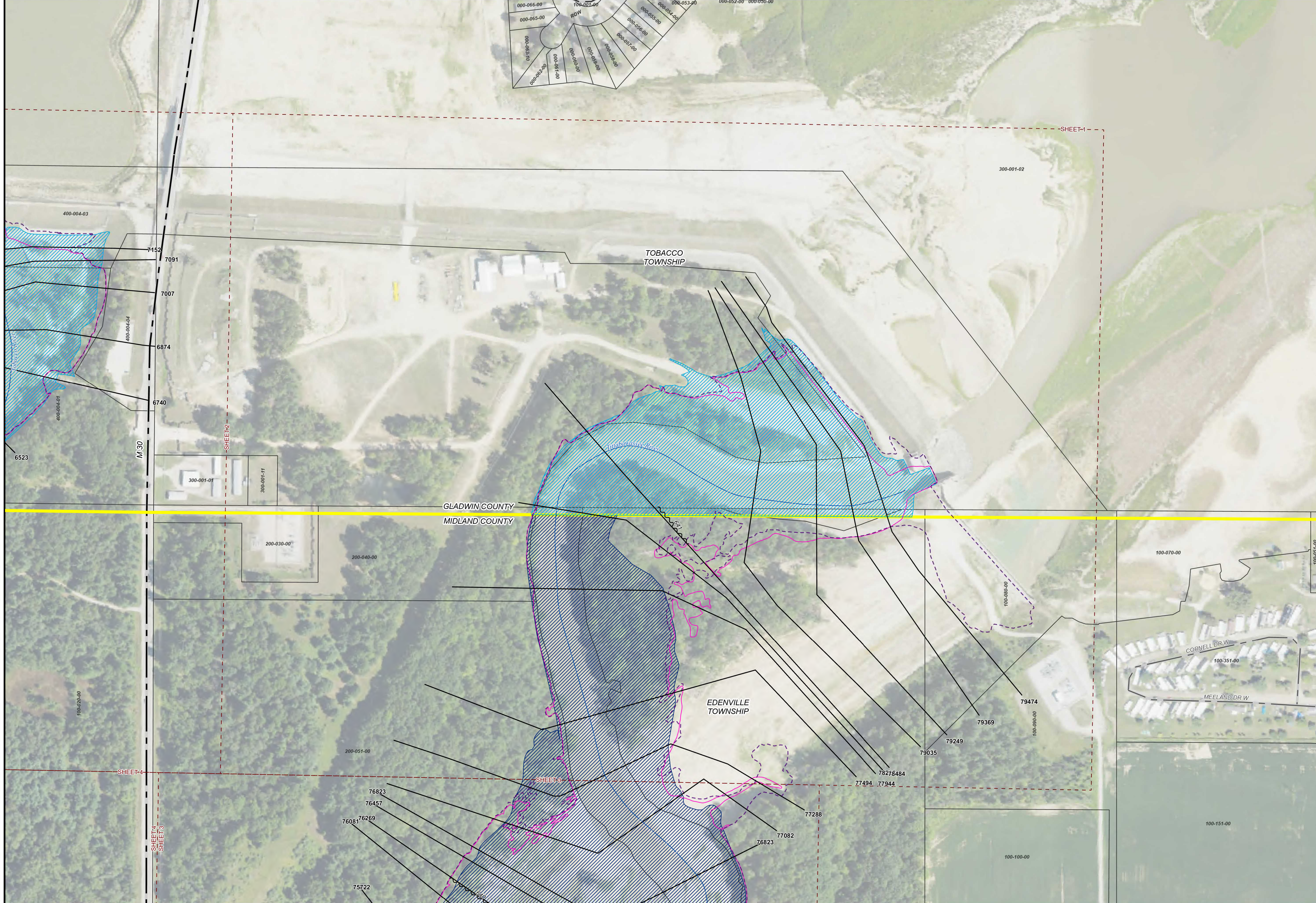
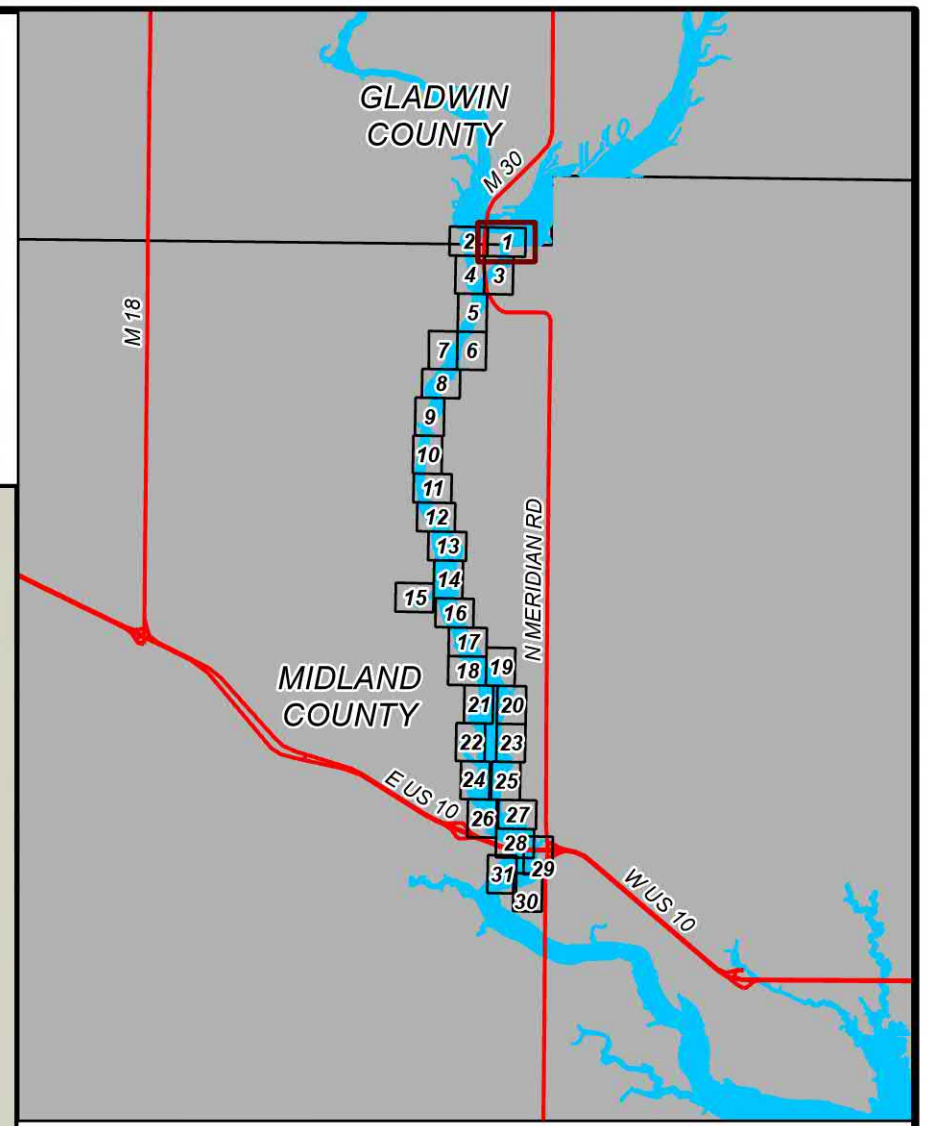


FEMA FLOODPLAIN TOPOGRAPHIC WORK MAP MIDLAND AND GLADWIN COUNTIES, MICHIGAN

FOUR LAKES TASK FORCE - DAVID KEPLER

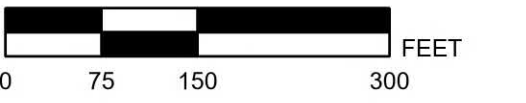
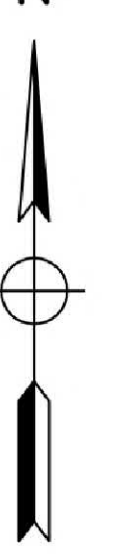
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AREA MAP
NOT TO SCALE

N



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SANFORD LAKE
MIDLAND COUNTY, MICHIGAN

**FEMA TOPOGRAPHIC
WORK MAP**



DE BY: JDW	CH BY: JDW	PROJECT NO.
DR BY: MKB	APP BY: SKR	126234SG2018
STDS.	SHEET 1 OF 31	DR
DATE: OCTOBER 2023	FILE NO.	1
SCALE: 1 IN: 150 FT	DR-4499	

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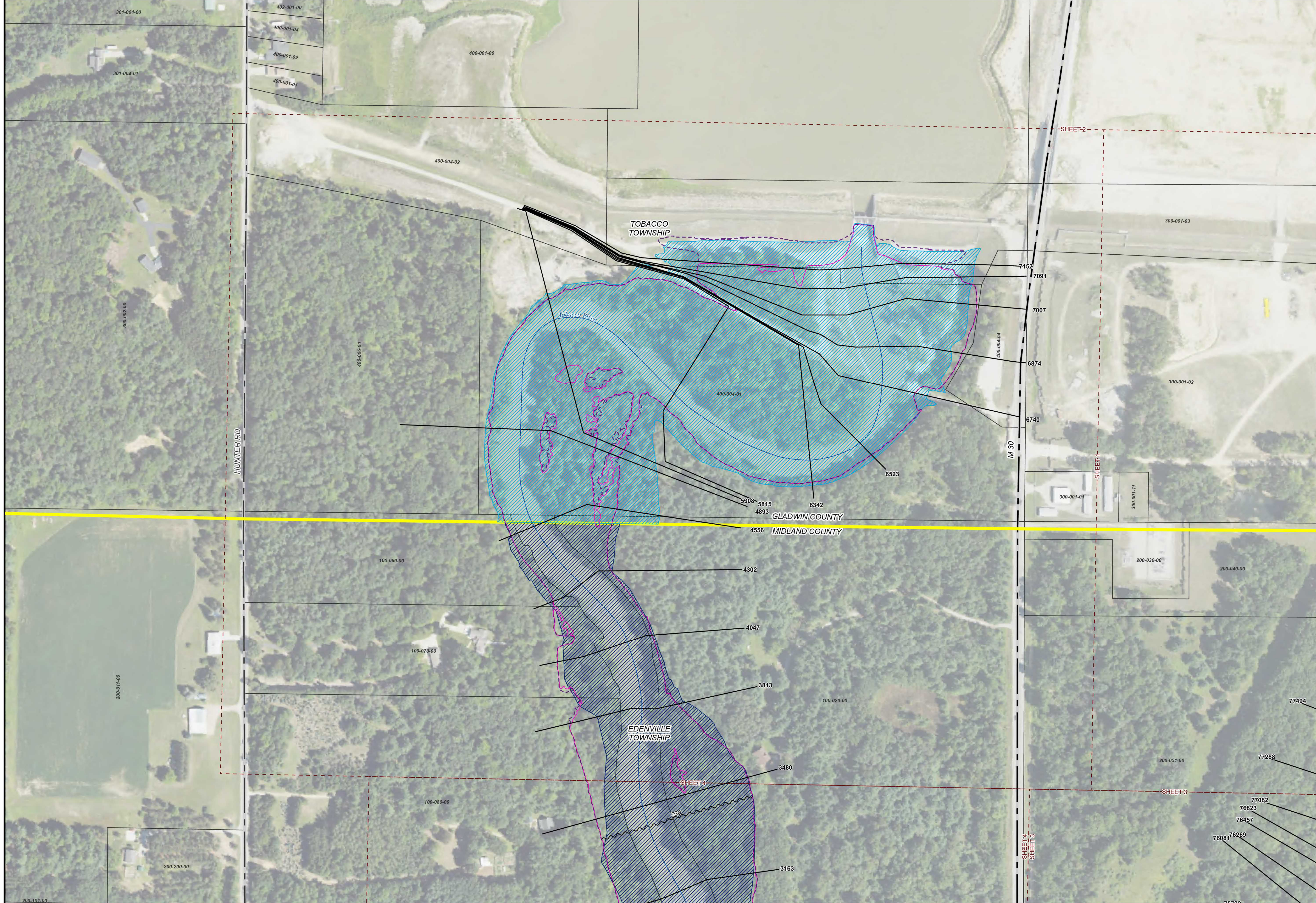
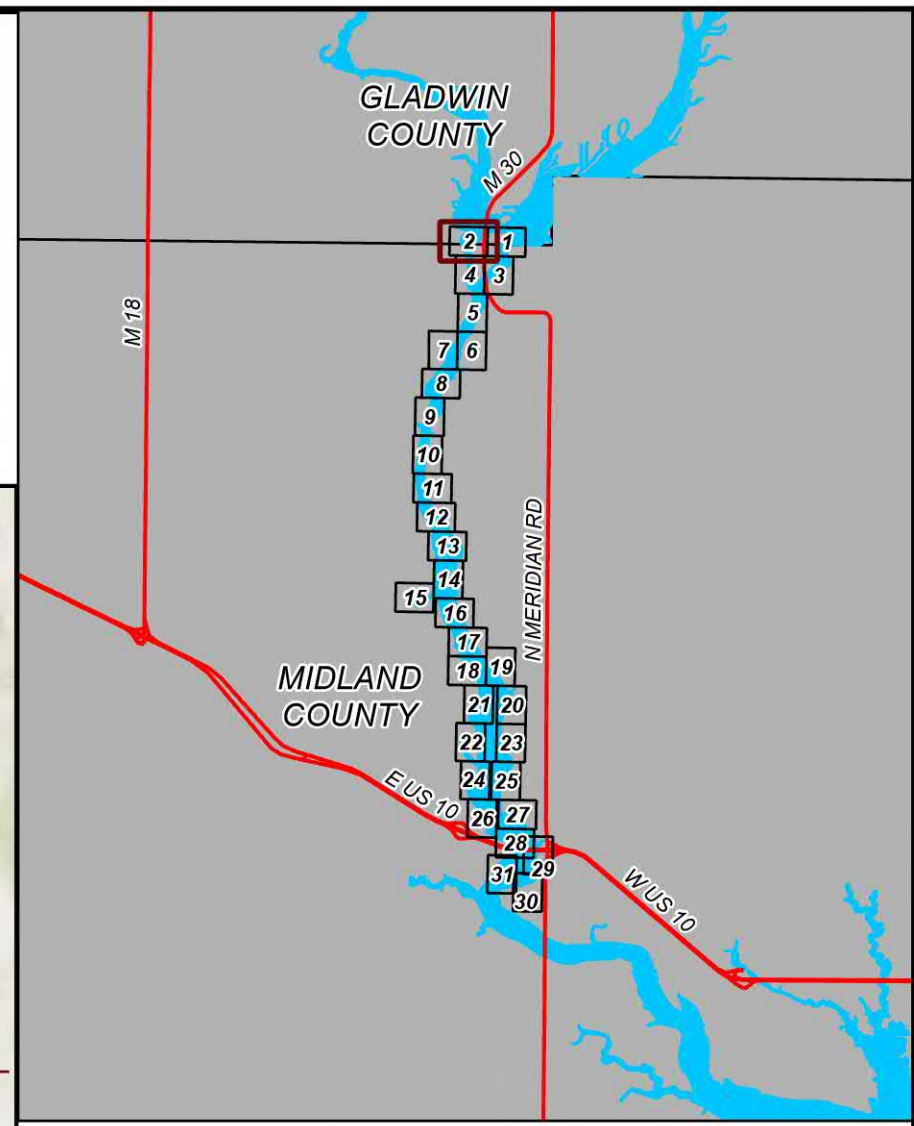


FEMA FLOODPLAIN TOPOGRAPHIC WORK MAP MIDLAND AND GLADWIN COUNTIES, MICHIGAN

FOUR LAKES TASK FORCE - DAVID KEPLER

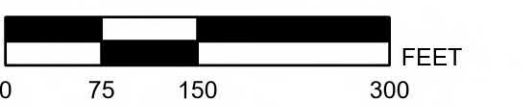
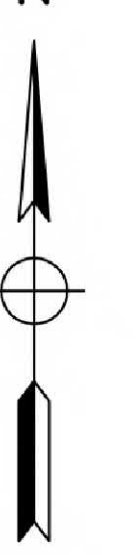
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AREA MAP
NOT TO SCALE

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SANFORD LAKE
MIDLAND COUNTY, MICHIGAN

**FEMA TOPOGRAPHIC
WORK MAP**

SAGINAW'S OFFICE
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Saginaw, MI 48607
Tel. 989-754-4747
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DE. BY: JDW	CH. BY: JDW	PROJECT NO.
DR. BY: MKB	APP. BY: SKR	126234SG2018
STDS.	SHEET 2 OF 31	DR
DATE: OCTOBER 2023	FILE NO.	2
SCALE: 1 IN: 150 FT	DR-4499	

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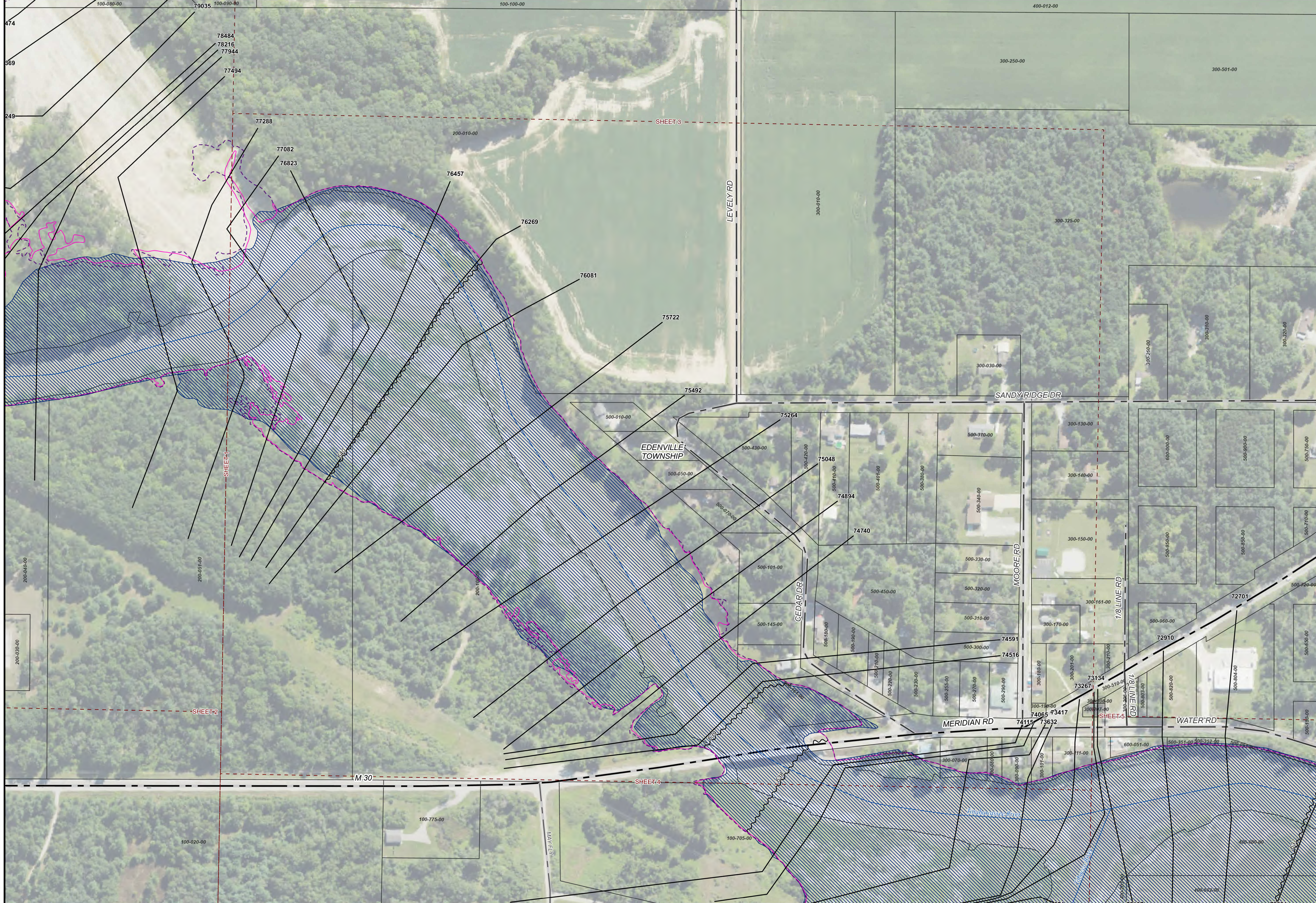
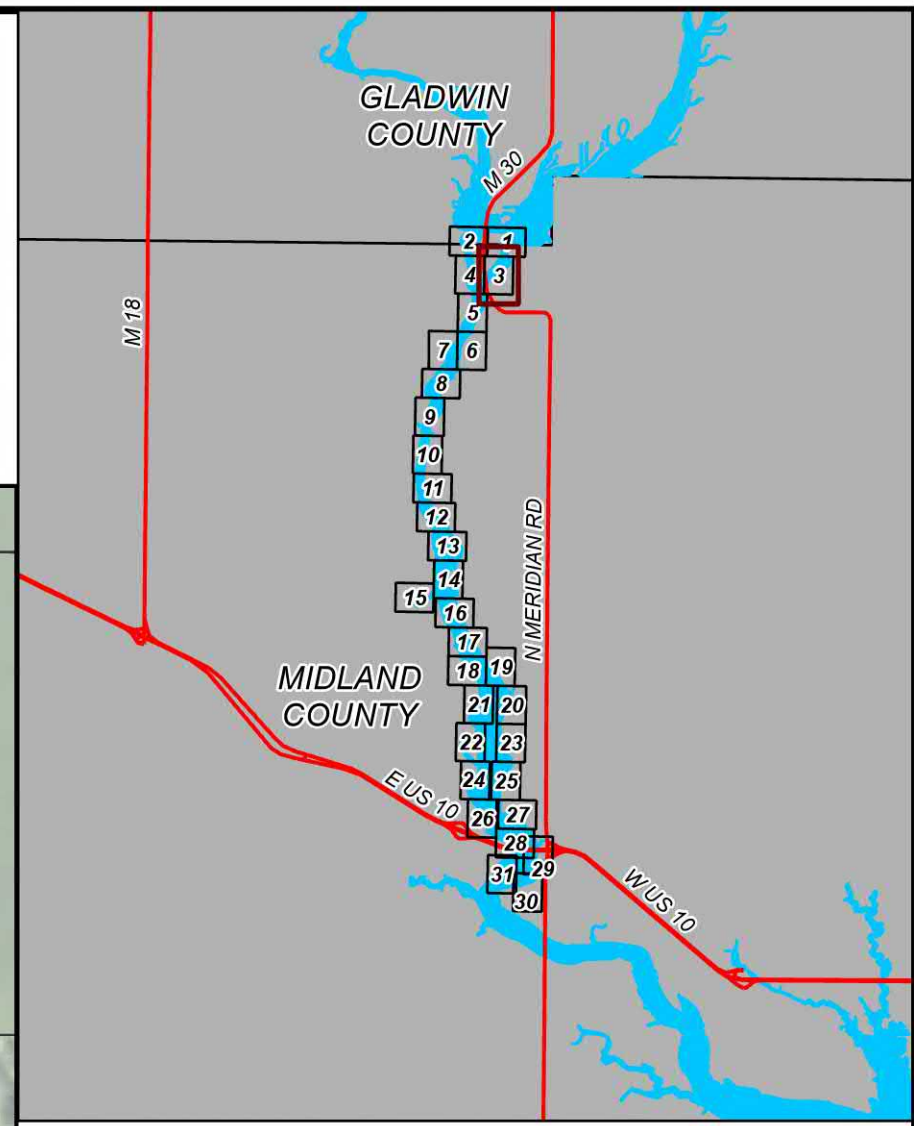
FEMA FLOODPLAIN TOPOGRAPHIC WORK MAP

MIDLAND AND GLADWIN COUNTIES, MICHIGAN

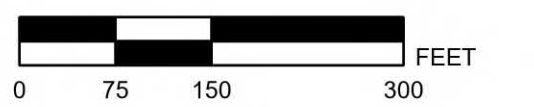
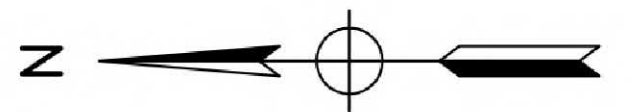
FOUR LAKES TASK FORCE - DAVID KEPLER

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AREA MAP
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BY	MARK	REVISIONS	DATE

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SANFORD LAKE
MIDLAND COUNTY, MICHIGAN

FEMA TOPOGRAPHIC WORK MAP



DE BY: JDW	CH BY: JDW	PROJECT NO.
DR BY: MKB	APP BY: SKR	126234SG2018
STDS.	SHEET 3 OF 31	DR
DATE: OCTOBER 2023	FILE NO.	3
SCALE: 1 IN: 150 FT	DR-4499	

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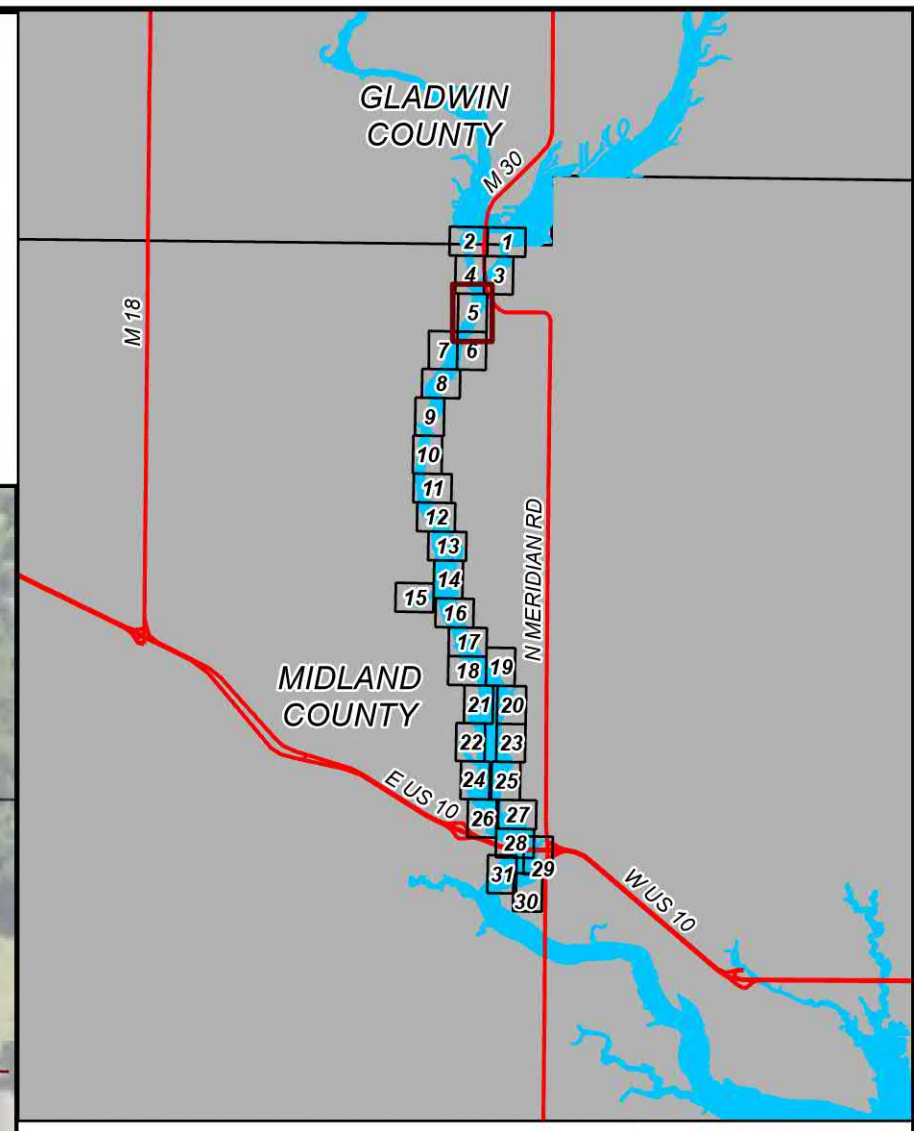
FEMA FLOODPLAIN TOPOGRAPHIC WORK MAP

MIDLAND AND GLADWIN COUNTIES, MICHIGAN

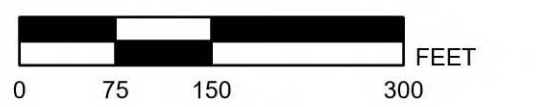
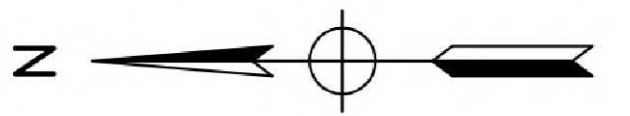
FOUR LAKES TASK FORCE - DAVID KEPLER

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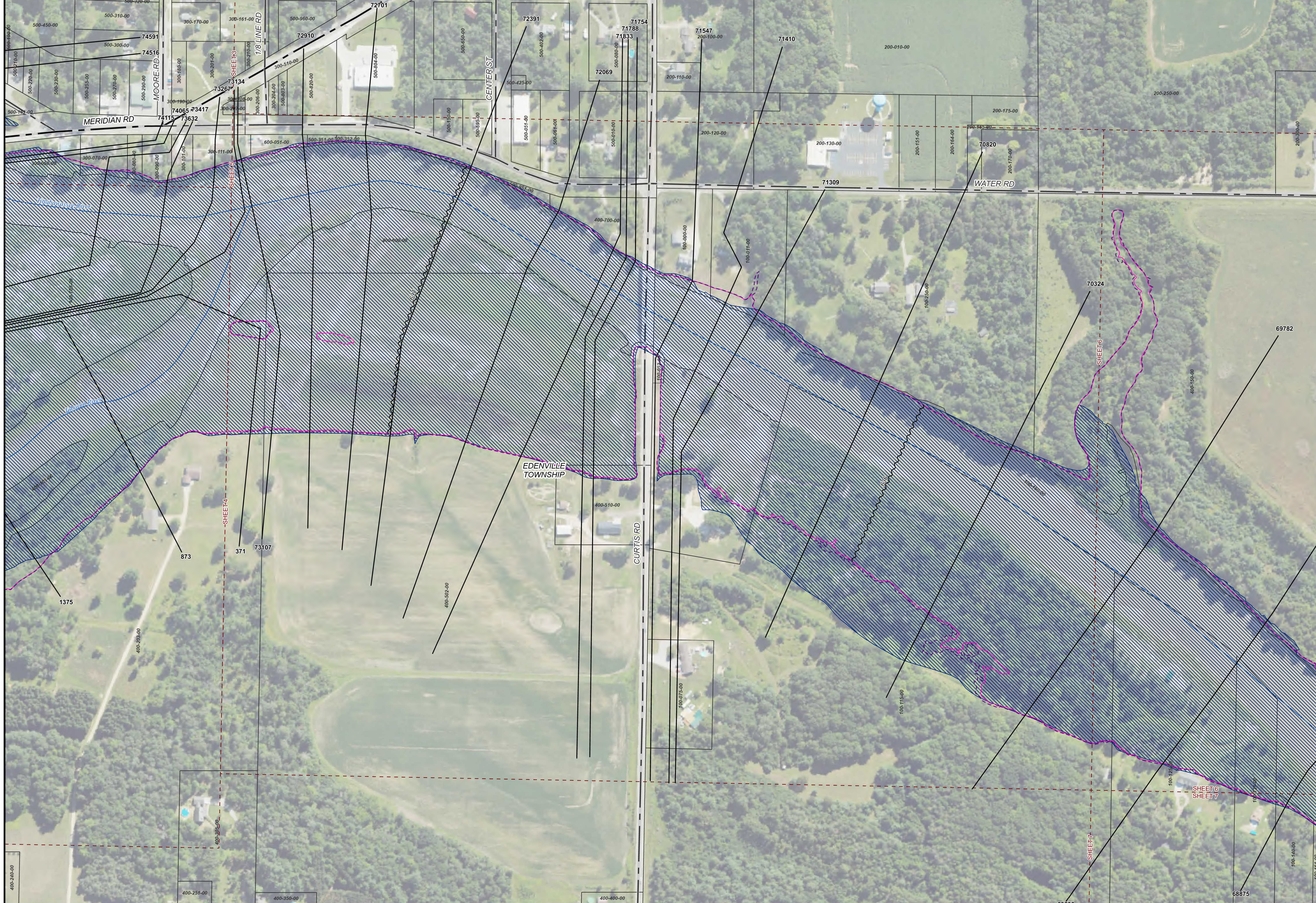
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SANFORD LAKE
MIDLAND COUNTY, MICHIGAN

FEMA TOPOGRAPHIC WORK MAP



DE BY: JDW DR BY: MKB	CH BY: JDW APP BY: SKR	PROJECT NO. 126234SG2018
STDS.	SHEET 5 OF 31	DR
DATE: OCTOBER 2023 SCALE: 1 IN: 150 FT	FILE NO. DR-4499	5



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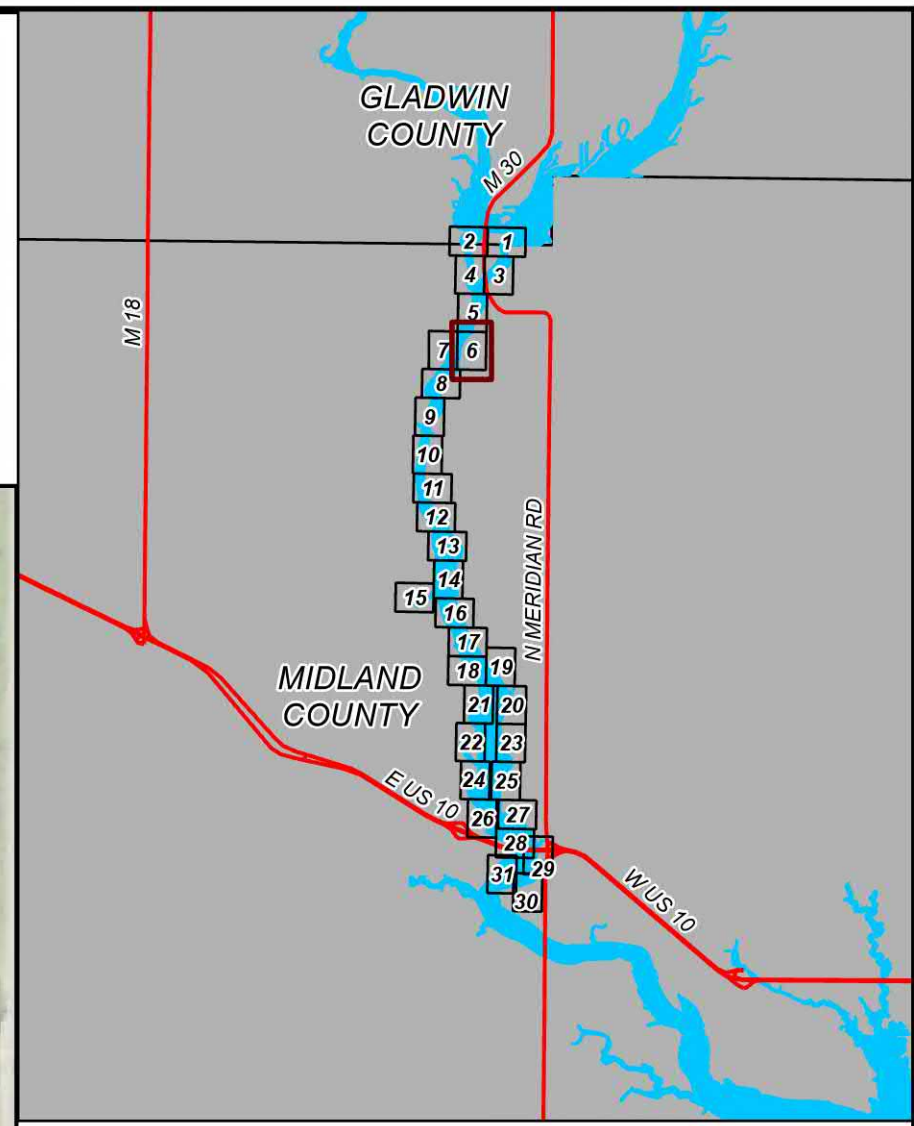
FEMA FLOODPLAIN TOPOGRAPHIC WORK MAP

MIDLAND AND GLADWIN COUNTIES, MICHIGAN

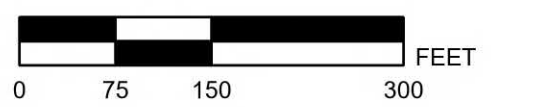
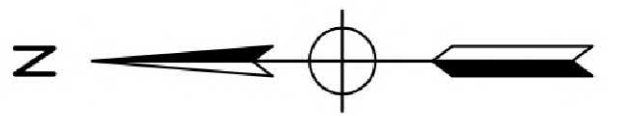
FOUR LAKES TASK FORCE - DAVID KEPLER

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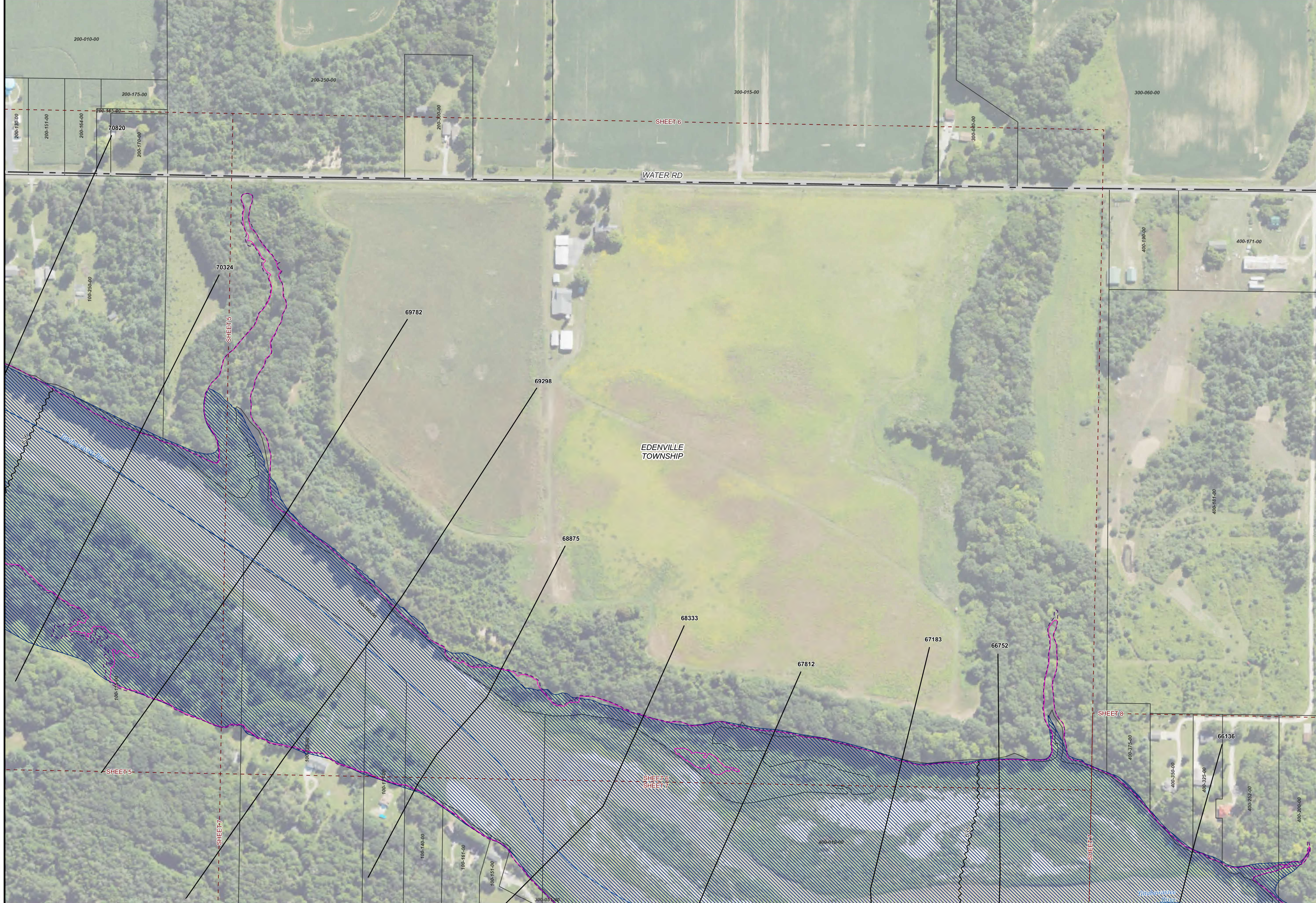


AREA MAP
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LEGEND

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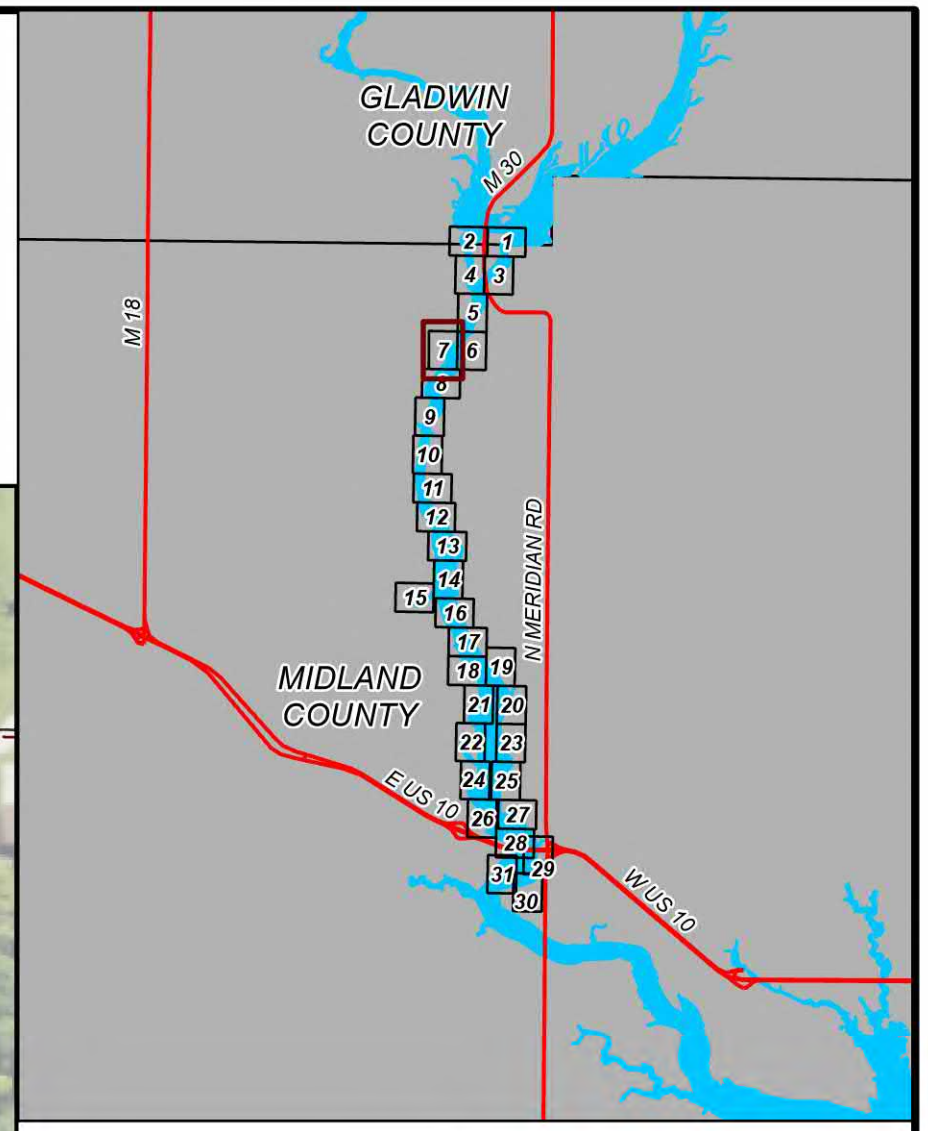


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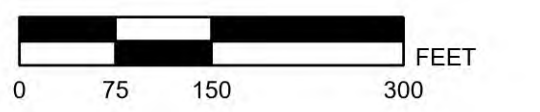
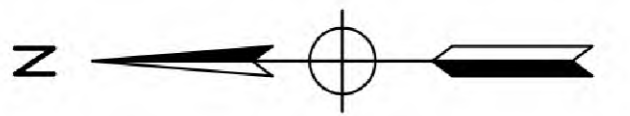
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DE BY: JDW CH BY: JDW PROJECT NO.
DR BY: MKB APP BY: SKR 126234SG2018

STDS. SHEET 7 OF 31 DR
DATE: OCTOBER 2023 FILE NO. DR-4499
SCALE: 1 IN: 150 FT



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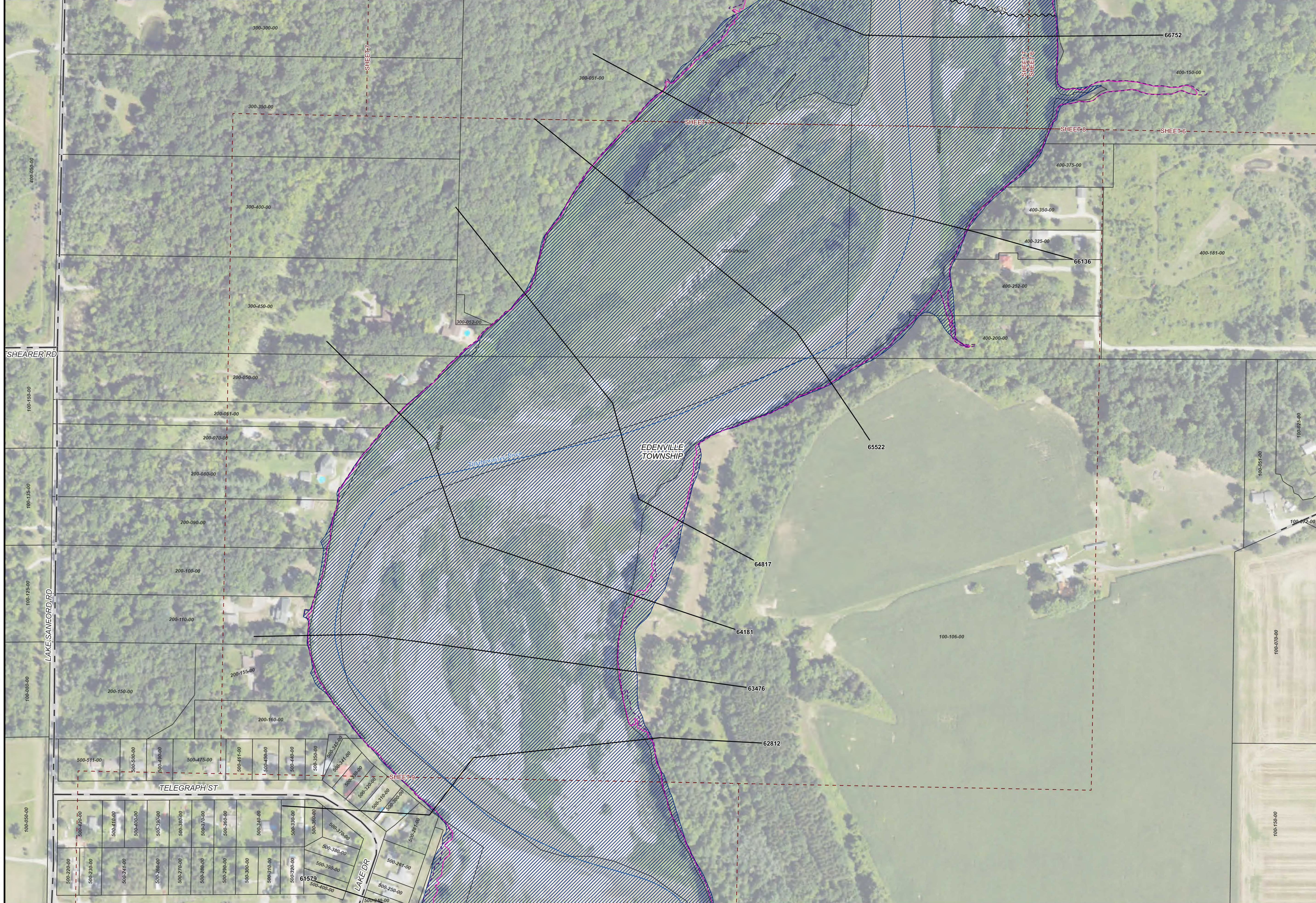
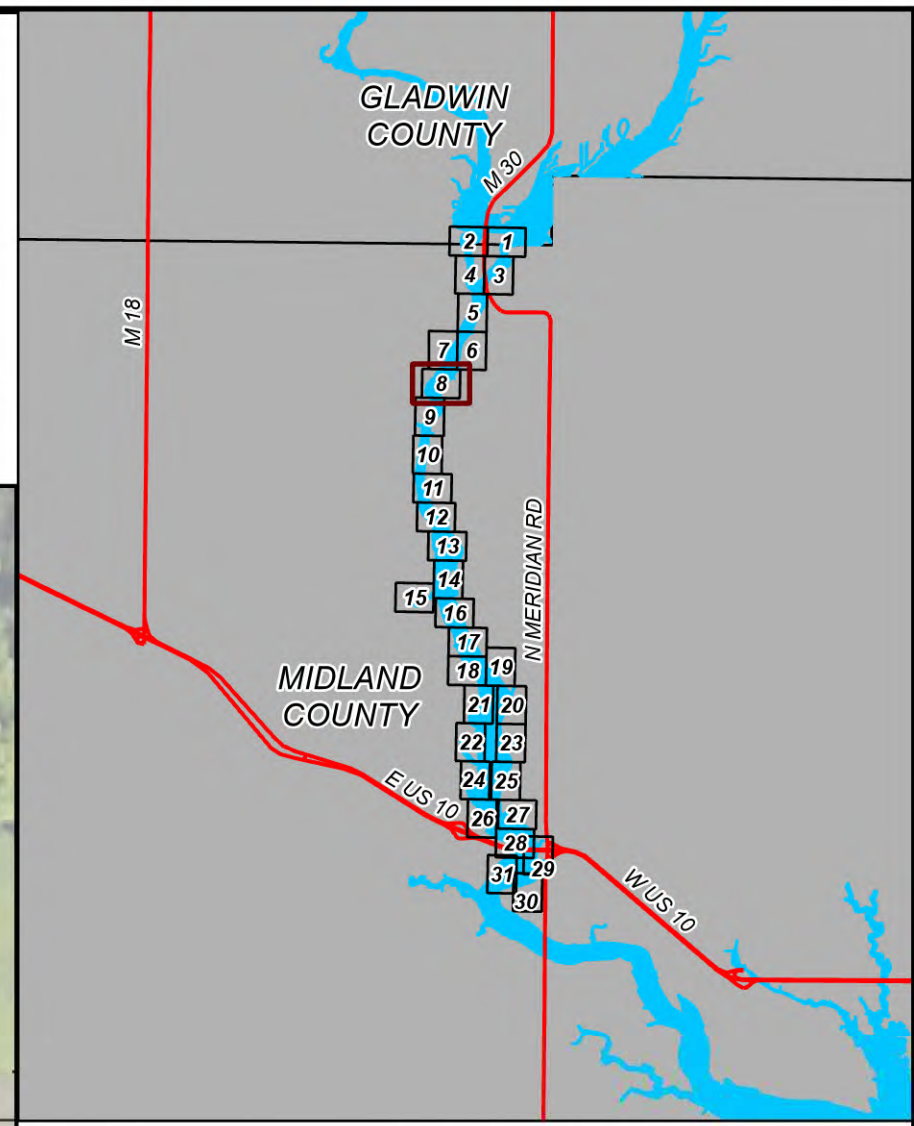
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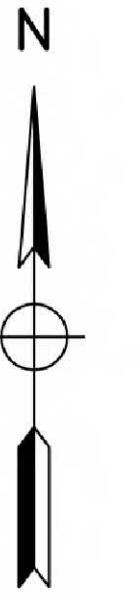
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DR BY: MKB	APP BY: SKR	126234SG2018
STDS.	SHEET 8 OF 31	DR
DATE: OCTOBER 2023	FILE NO.	8
SCALE: 1 IN: 150 FT	DR-4499	

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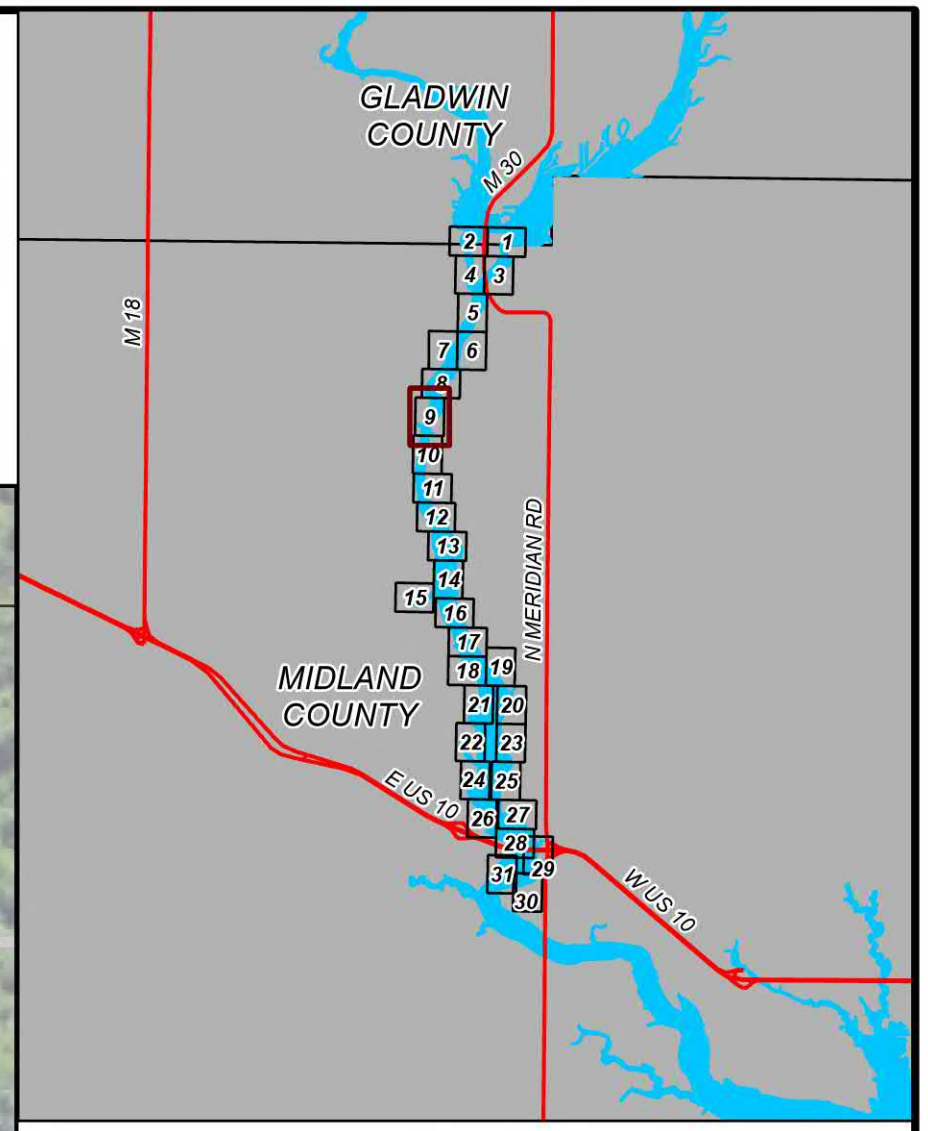
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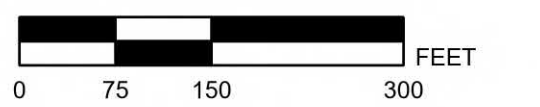
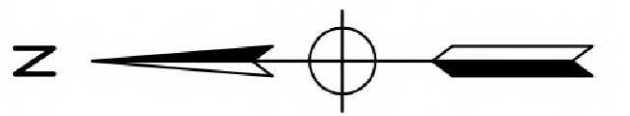
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BY	MARK	REVISIONS	DATE

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SANFORD LAKE
MIDLAND COUNTY, MICHIGAN

FEMA TOPOGRAPHIC WORK MAP



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230 S Washington Ave
Saginaw, MI 48607
Tel. 989-754-4747
www.SpicerGroup.com

DE BY: JDW	CH BY: JDW	PROJECT NO.
DR BY: MKB	APP BY: SKR	126234SG2018

STDS.	SHEET 9 OF 31	DR
DATE: OCTOBER 2023	FILE NO. DR-4499	
SCALE: 1 IN. = 150 FT		9



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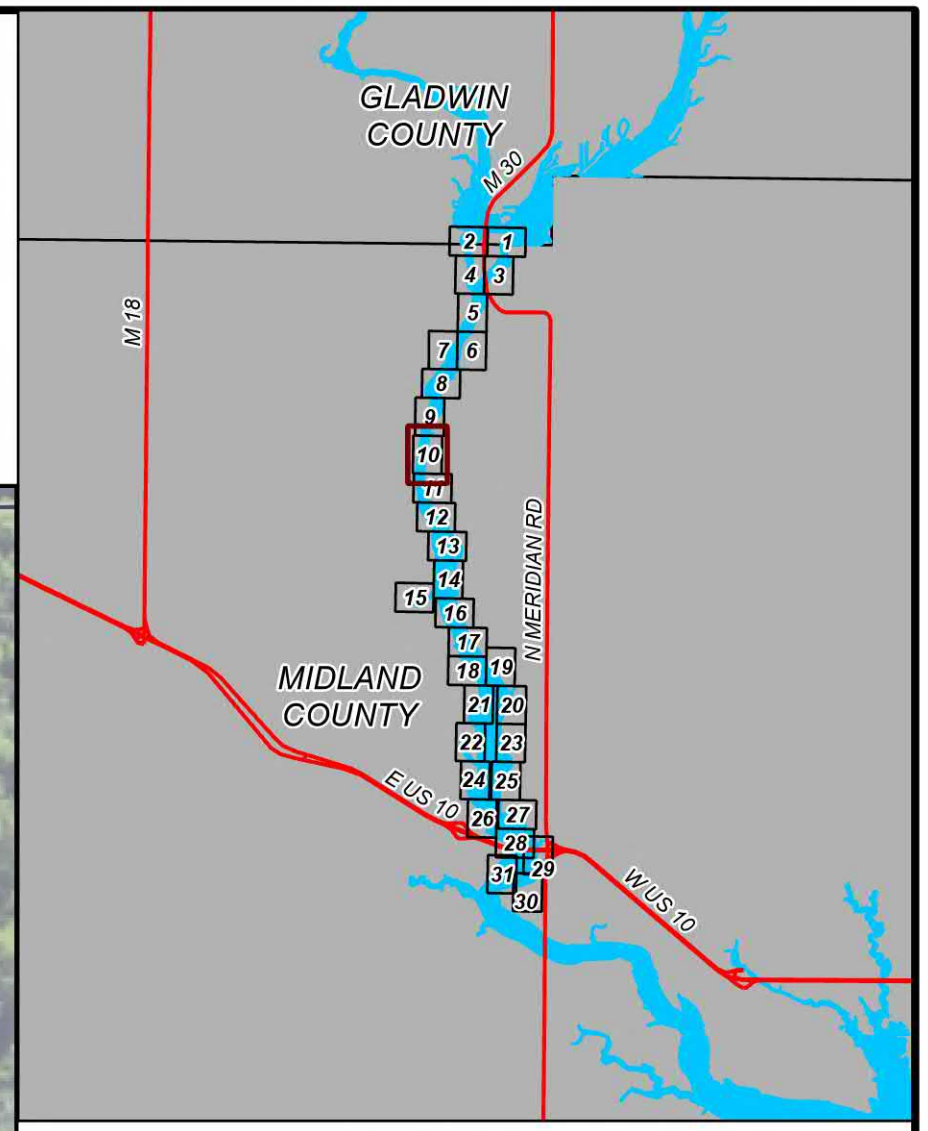
FEMA FLOODPLAIN TOPOGRAPHIC WORK MAP

MIDLAND AND GLADWIN COUNTIES, MICHIGAN

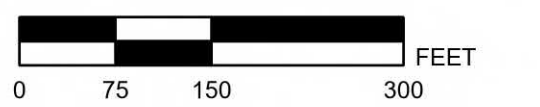
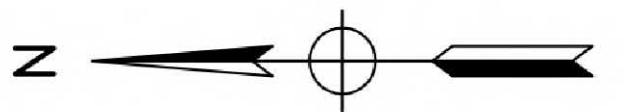
FOUR LAKES TASK FORCE - DAVID KEPLER

NOTES:

1. HORIZONTAL DATUM: MICHIGAN COORDINATE SYSTEM OF 1983, SOUTH ZONE, LAMBERT CONFORMAL PROJECTION OF THE NORTH AMERICAN DATUM OF 1983
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AREA MAP
NOT TO SCALE



LEGEND

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- PROPOSED MODEL CROSS SECTION
- PROPOSED 100-YR BASE FLOOD ELEVATION (NAVD 88)
- MUNICIPALITY BOUNDARIES
- PARCELS
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BY	MARK	REVISIONS	DATE

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SANFORD LAKE
MIDLAND COUNTY, MICHIGAN

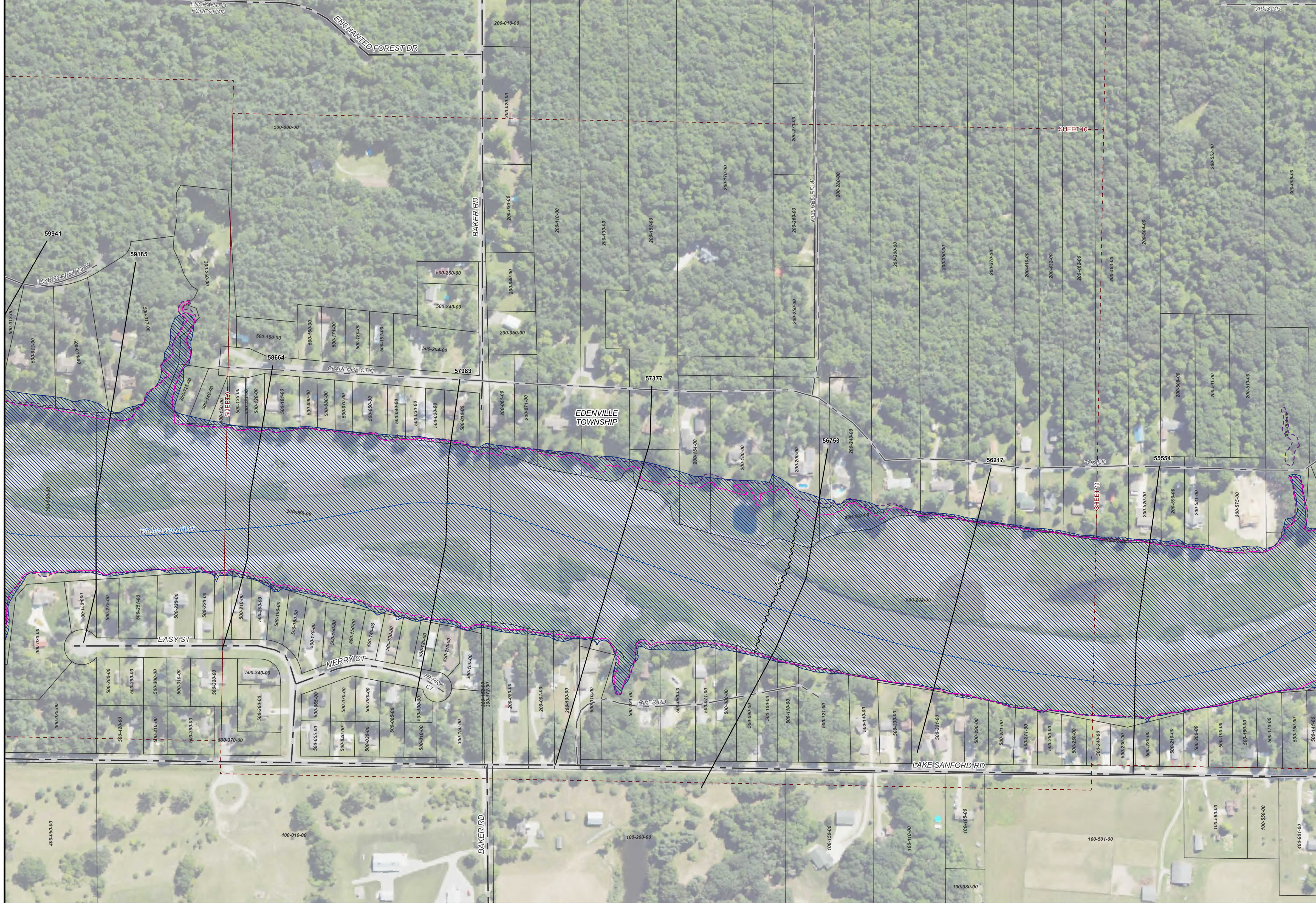
FEMA TOPOGRAPHIC WORK MAP



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DE BY: JDW CH BY: JDW PROJECT NO.
DR BY: MKB APP BY: SKR 126234SG2018

STDS. SHEET 10 OF 31 DR
DATE: OCTOBER 2023 FILE NO. DR-4499 10
SCALE: 1 IN: 150 FT



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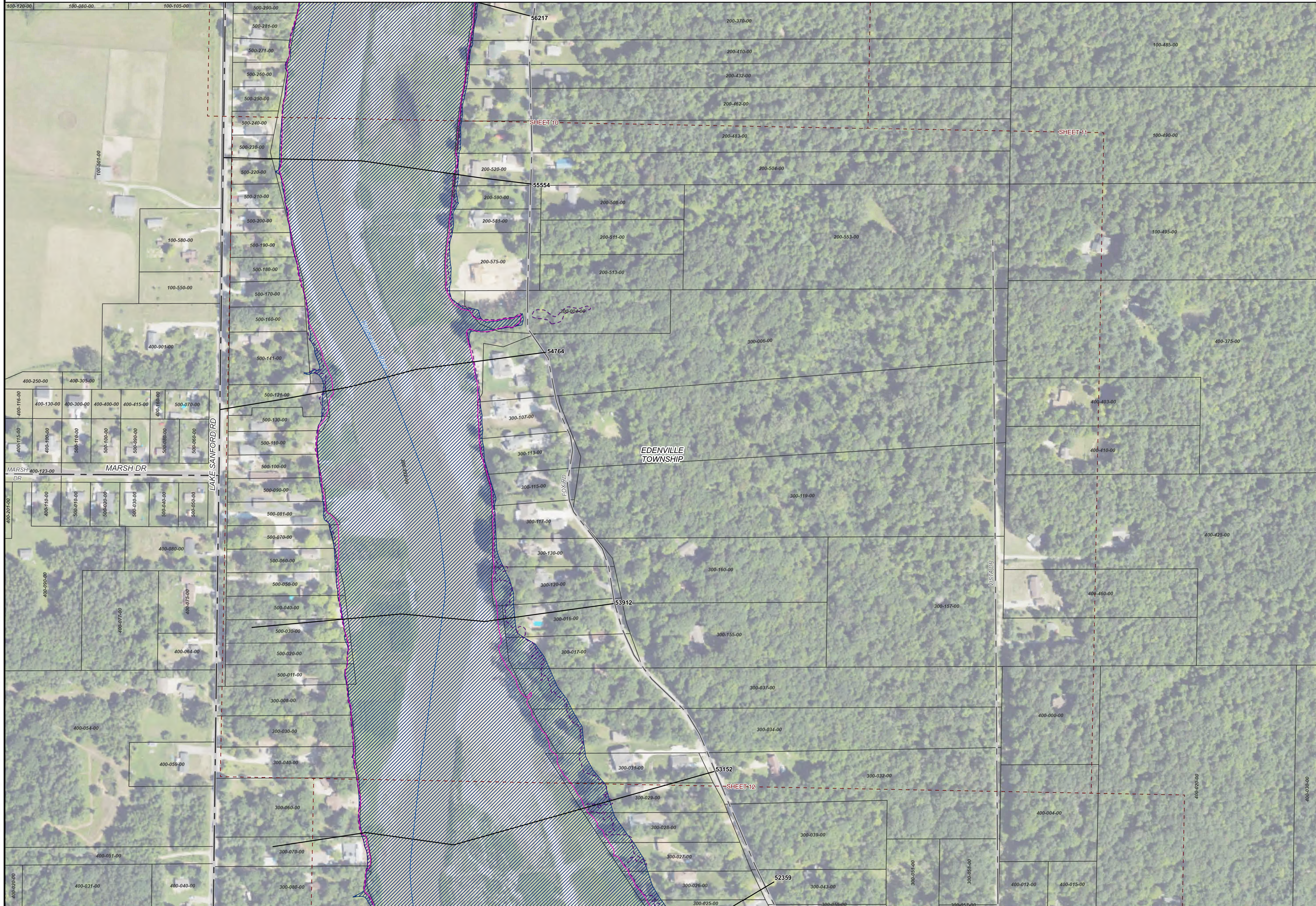
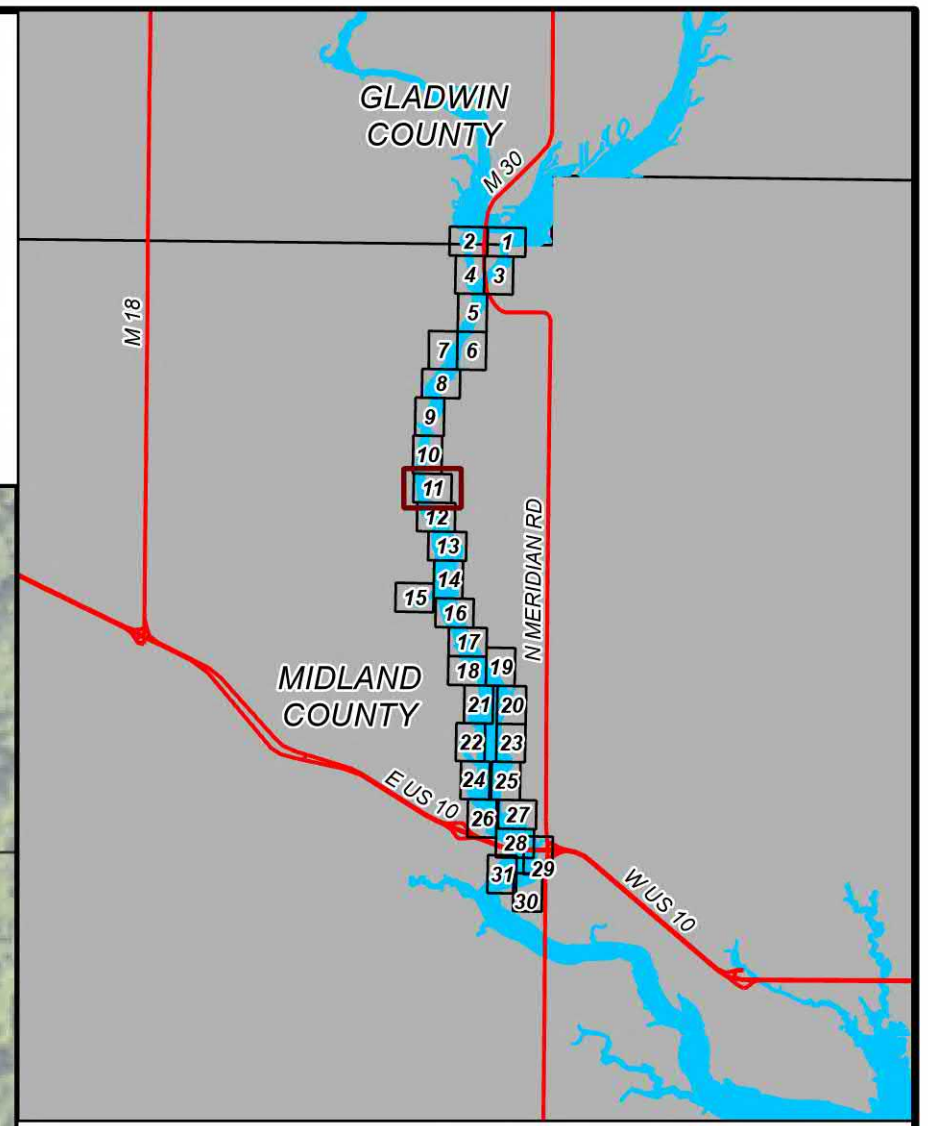
FEMA FLOODPLAIN TOPOGRAPHIC WORK MAP

MIDLAND AND GLADWIN COUNTIES, MICHIGAN

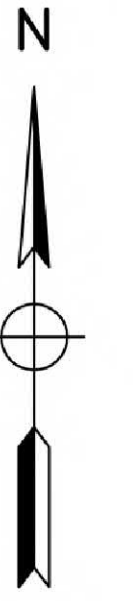
FOUR LAKES TASK FORCE - DAVID KEPLER

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AREA MAP
NOT TO SCALE



LEGEND

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- PARCELS
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BY	MARK	REVISIONS	DATE
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<p>SANFORD LAKE MIDLAND COUNTY, MICHIGAN</p>			
<p>FEMA TOPOGRAPHIC WORK MAP</p>			
		<p>SAGINAW'S OFFICE 230 S Washington Ave Saginaw, MI 48607 Tel. 989-754-4747 www.SpicerGroup.com</p>	
DE BY: JDW	CH BY: JDW	PROJECT NO.	
DR BY: MKB	APP BY: SKR	126234SG2018	
STDS.	SHEET 11 OF 31	DR	
DATE: OCTOBER 2023	FILE NO.	11	
SCALE: 1 IN: 150 FT	DR-4499		

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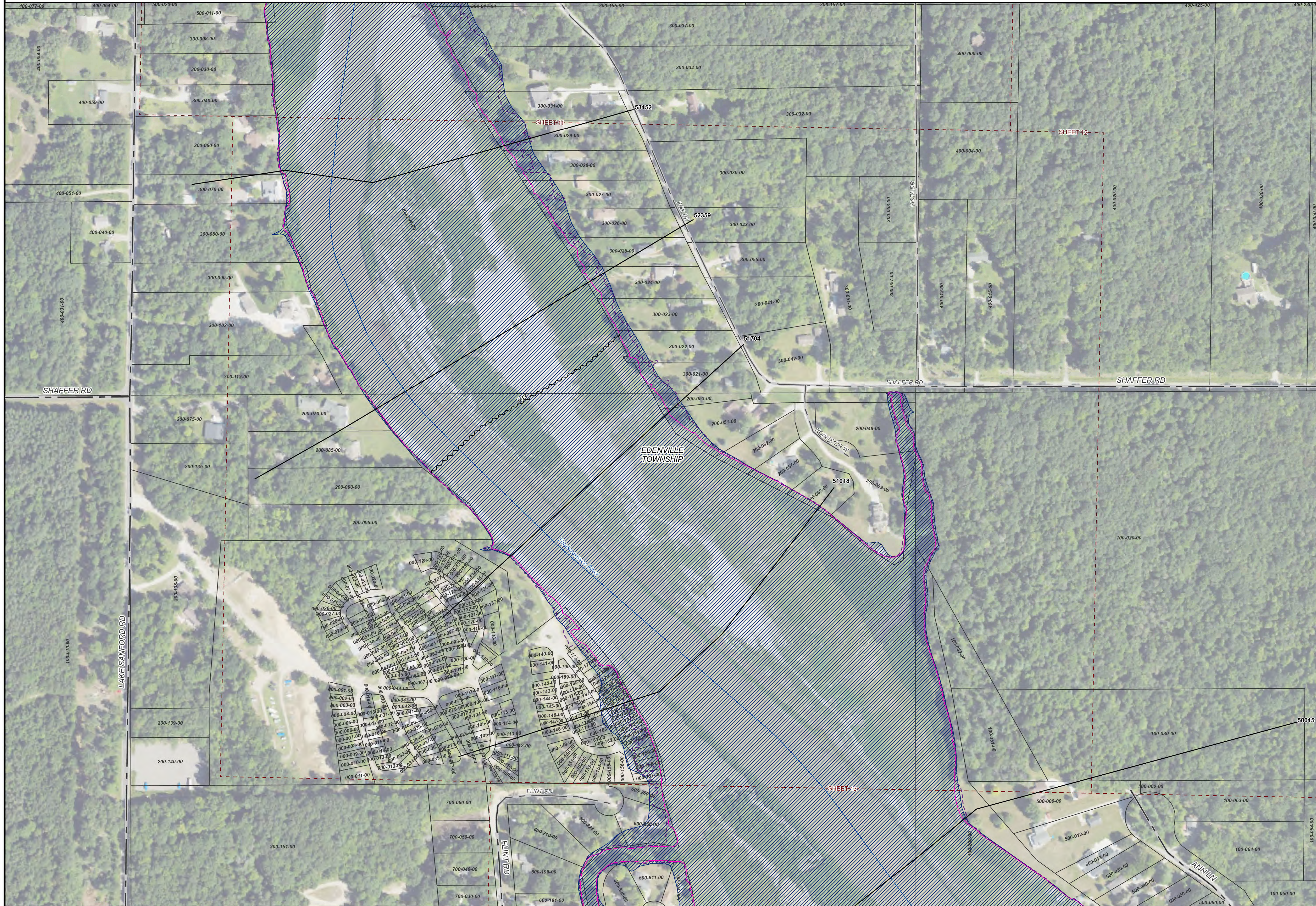
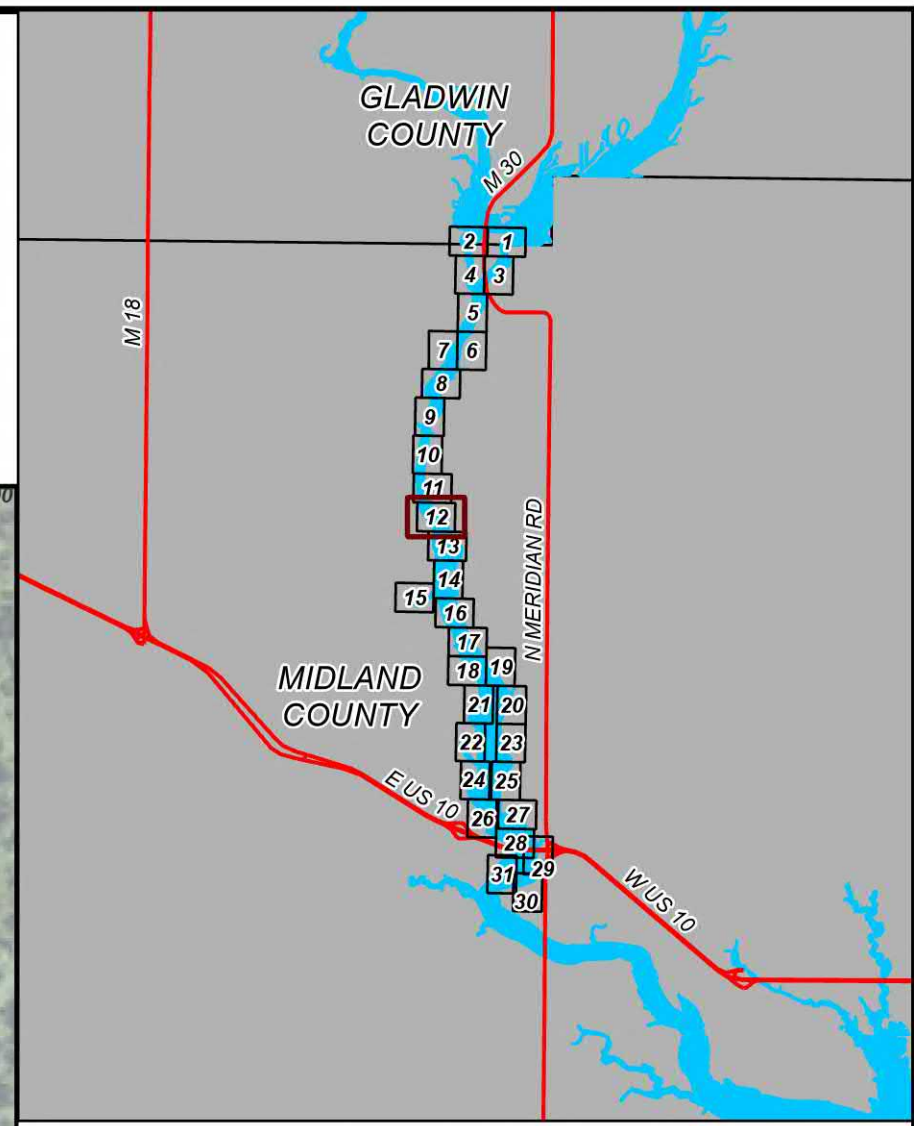
FEMA FLOODPLAIN TOPOGRAPHIC WORK MAP

MIDLAND AND GLADWIN COUNTIES, MICHIGAN

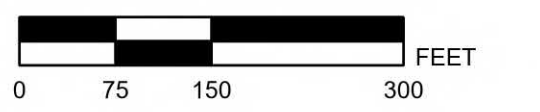
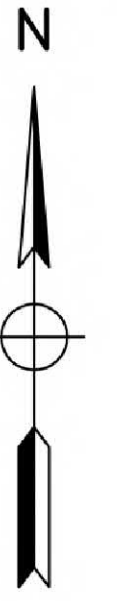
FOUR LAKES TASK FORCE - DAVID KEPLER

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AREA MAP
NOT TO SCALE



LEGEND

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BY	MARK	REVISIONS	DATE

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SANFORD LAKE
MIDLAND COUNTY, MICHIGAN

FEMA TOPOGRAPHIC WORK MAP



DE BY: JDW	CH BY: JDW	PROJECT NO.
DR BY: MKB	APP BY: SKR	126234SG2018
STDS.	SHEET 12 OF 31	DR 12
DATE: OCTOBER 2023	FILE NO. DR-4499	
SCALE: 1 IN: 150 FT		

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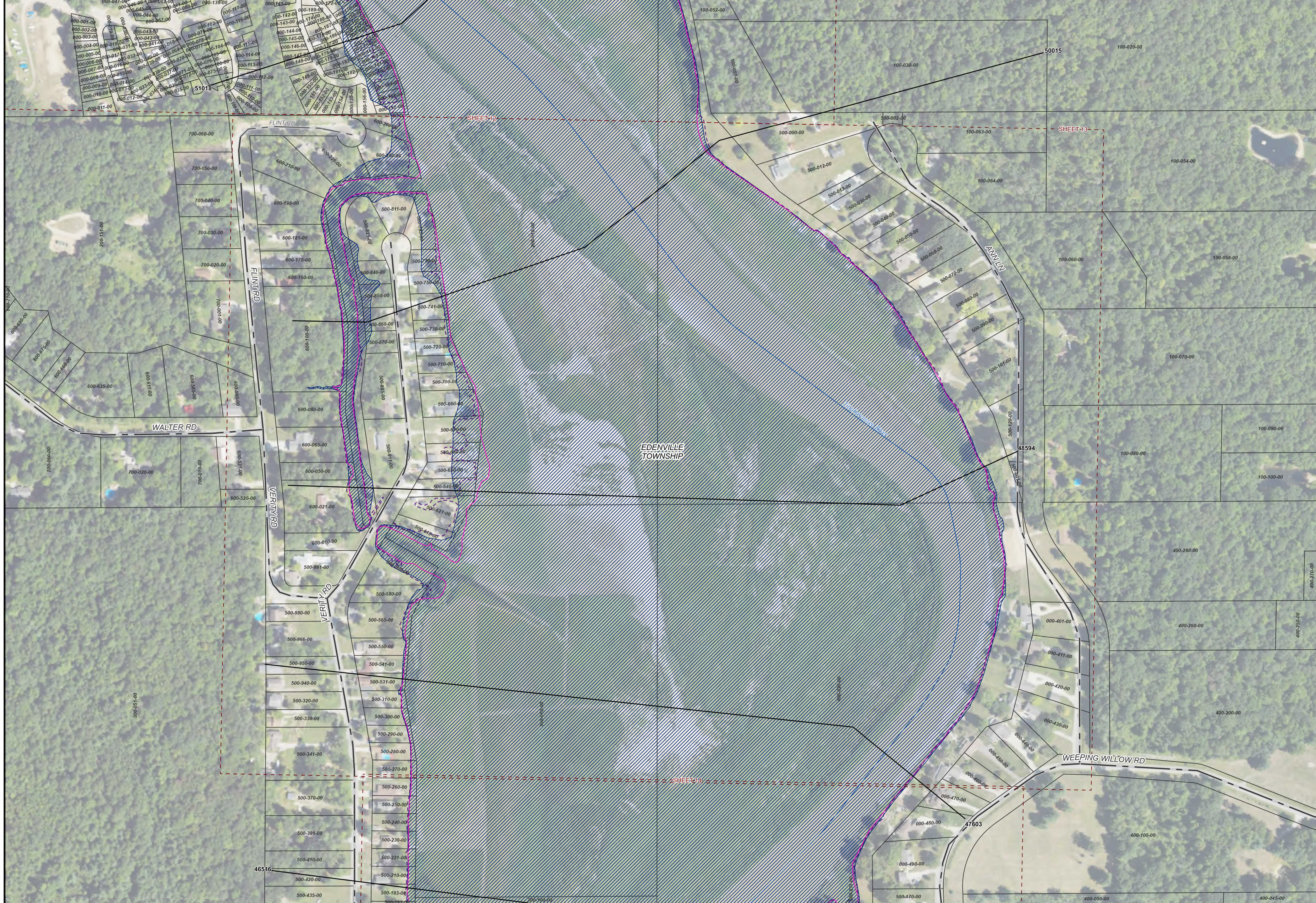
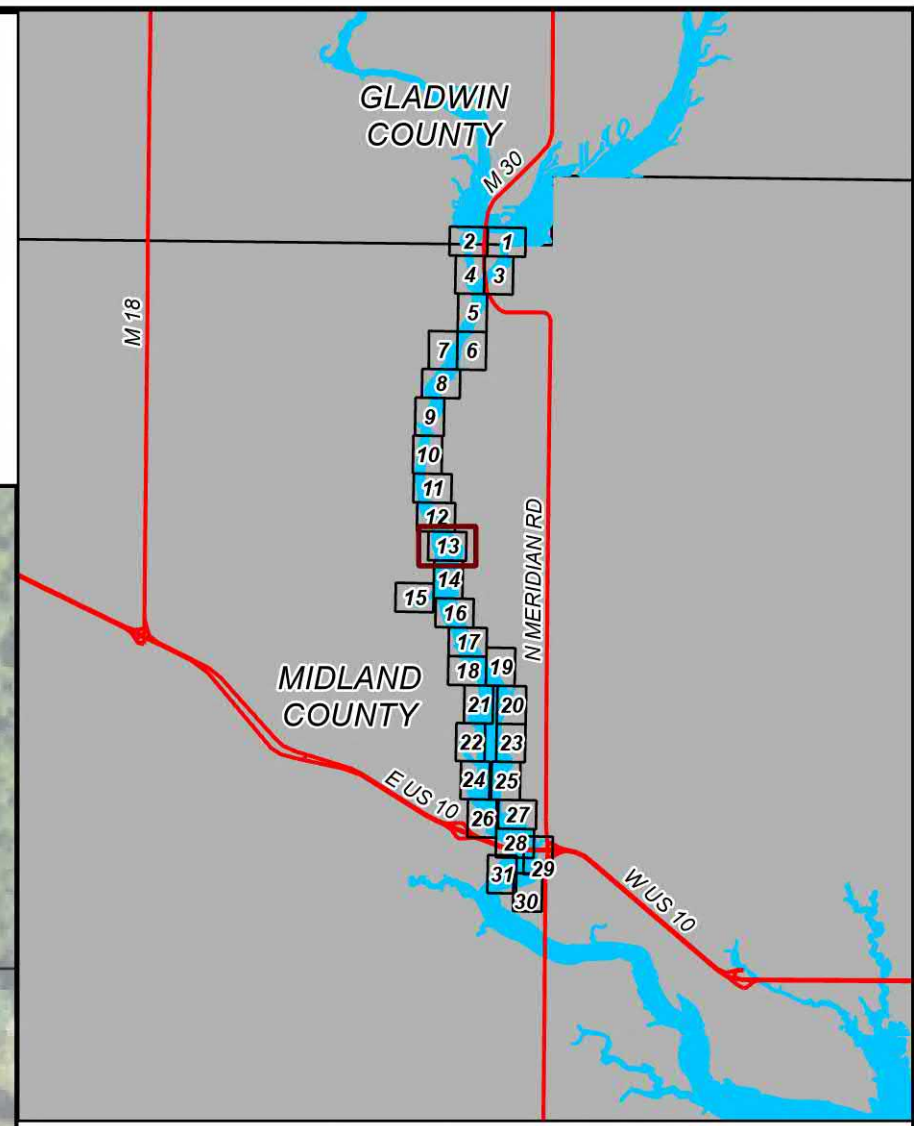
FEMA FLOODPLAIN TOPOGRAPHIC WORK MAP

MIDLAND AND GLADWIN COUNTIES, MICHIGAN

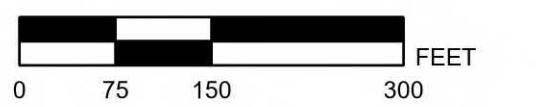
FOUR LAKES TASK FORCE - DAVID KEPLER

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MIDLAND COUNTY, MICHIGAN

FEMA TOPOGRAPHIC WORK MAP



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DR BY: MKB	APP BY: SKR	126234SG2018

STDS.	SHEET 13 OF 31	DR 13
DATE: OCTOBER 2023	FILE NO. DR-4499	
SCALE: 1 IN: 150 FT		

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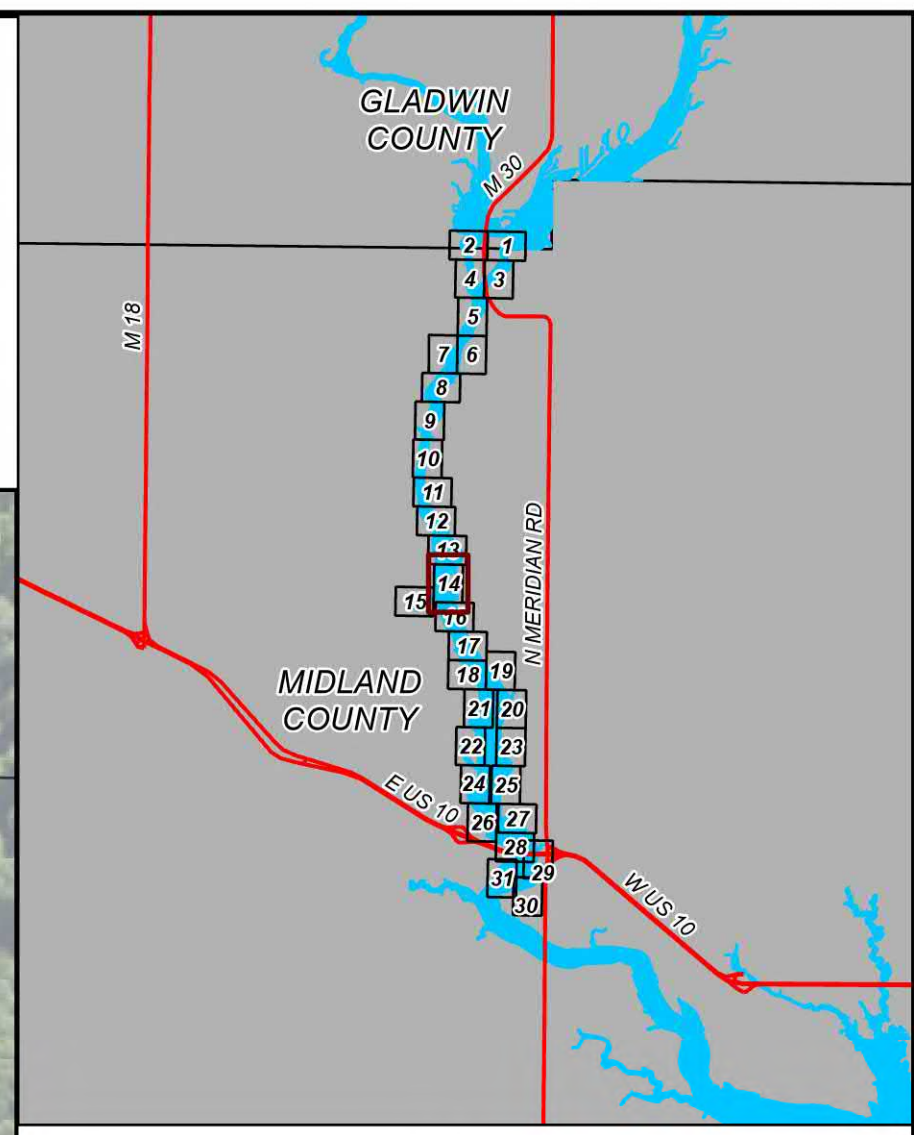
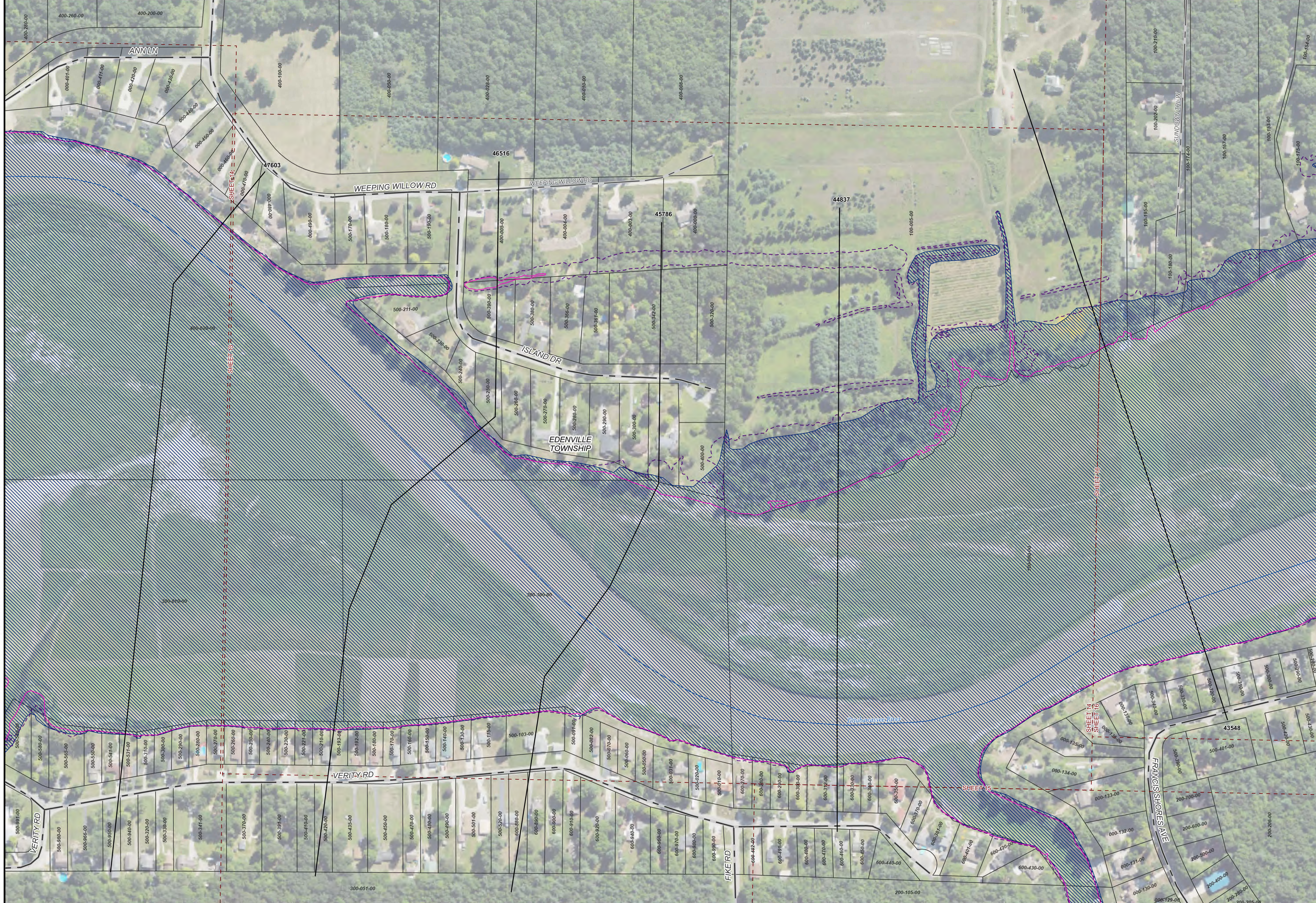
FEMA FLOODPLAIN TOPOGRAPHIC WORK MAP

MIDLAND AND GLADWIN COUNTIES, MICHIGAN

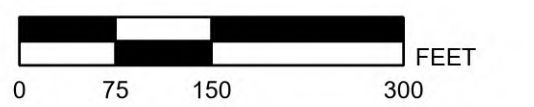
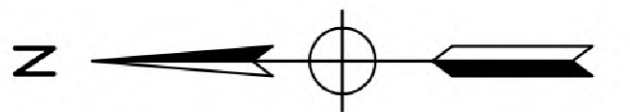
FOUR LAKES TASK FORCE - DAVID KEPLER

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AREA MAP
NOT TO SCALE



LEGEND

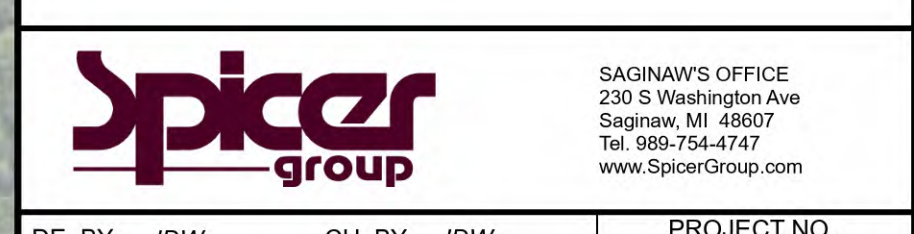
- FEMA FIS 100-YR FLOW FLOODPLAIN: PRE-FLOOD DAM CONDITIONS
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BY	MARK	REVISIONS	DATE

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SANFORD LAKE
MIDLAND COUNTY, MICHIGAN

FEMA TOPOGRAPHIC WORK MAP



DE BY: JDW	CH BY: JDW	PROJECT NO.
DR BY: MKB	APP BY: SKR	126234SG2018
STDS.	SHEET 14 OF 31	DR 14
DATE: OCTOBER 2023	FILE NO. DR-4499	
SCALE: 1 IN: 150 FT		

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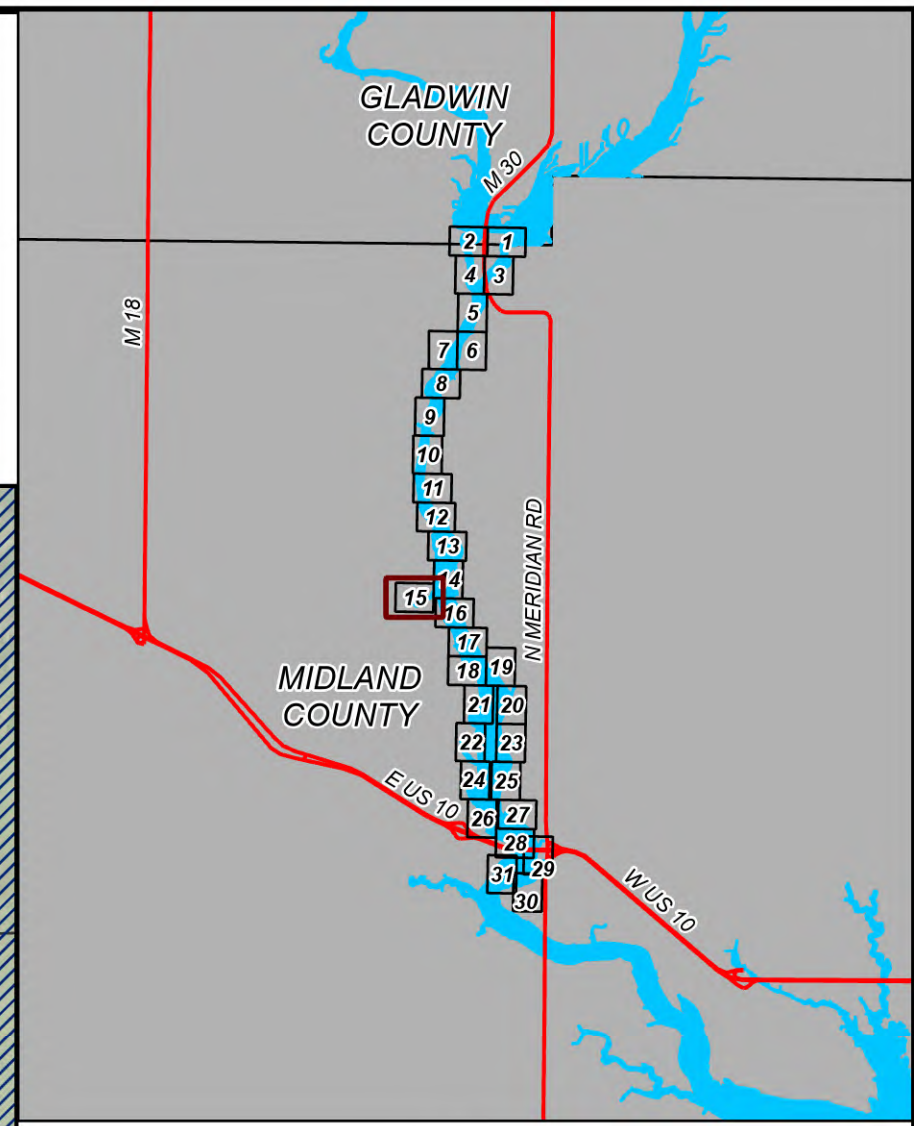
FEMA FLOODPLAIN TOPOGRAPHIC WORK MAP

MIDLAND AND GLADWIN COUNTIES, MICHIGAN

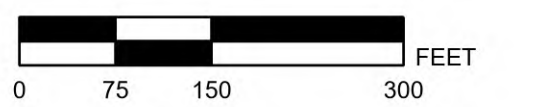
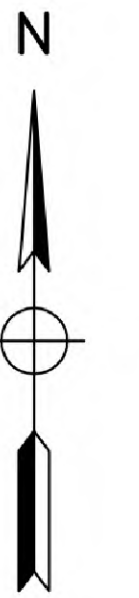
FOUR LAKES TASK FORCE - DAVID KEPLER

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AREA MAP
NOT TO SCALE



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FEMA TOPOGRAPHIC WORK MAP



DE BY: JDW	CH BY: JDW	PROJECT NO.
DR BY: MKB	APP BY: SKR	126234SG2018
STDS.	SHEET 15 OF 31	DR 15
DATE: OCTOBER 2023	FILE NO.	
SCALE: 1 IN: 150 FT	DR-4499	

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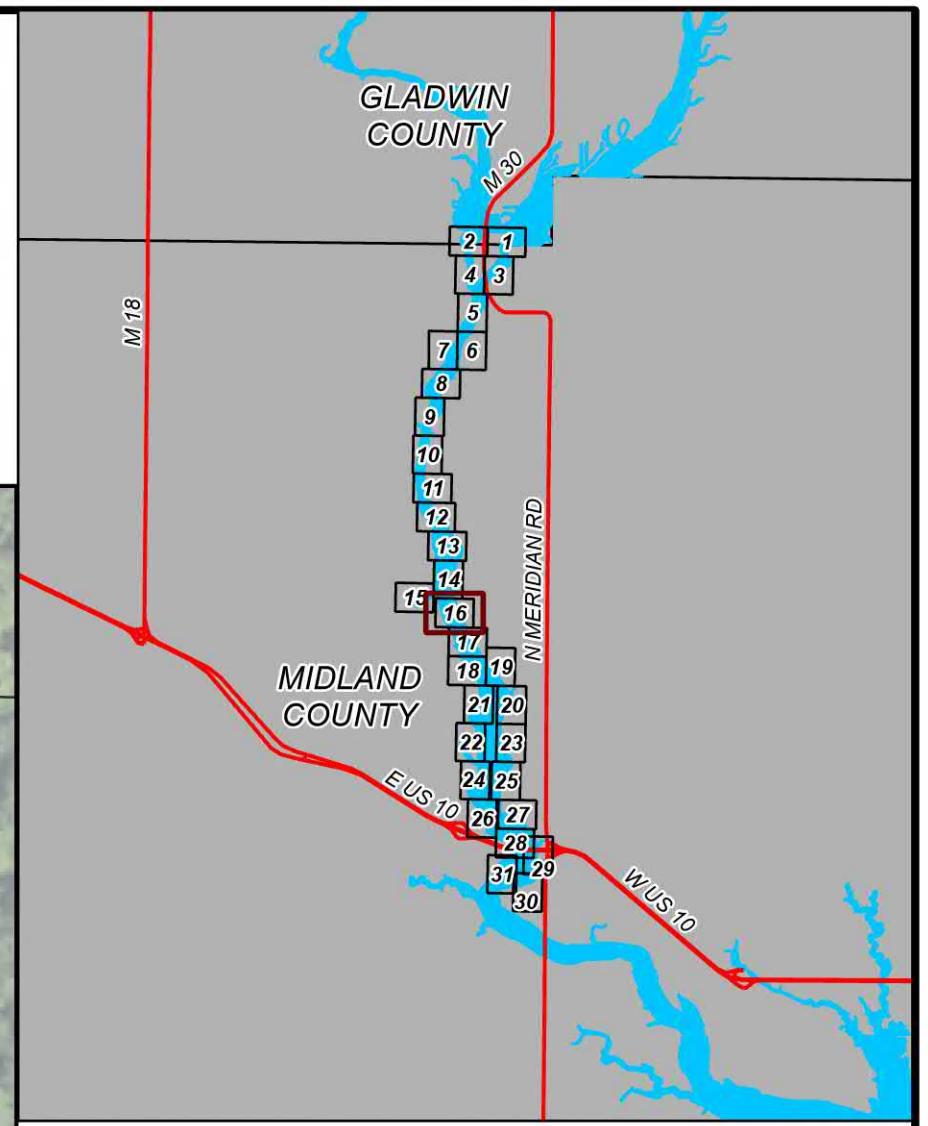
FEMA FLOODPLAIN TOPOGRAPHIC WORK MAP

MIDLAND AND GLADWIN COUNTIES, MICHIGAN

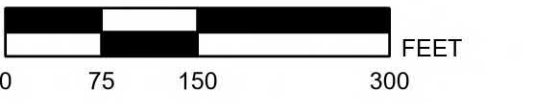
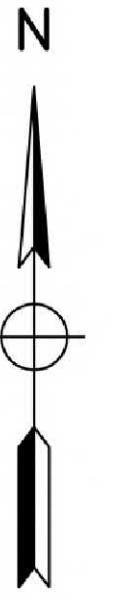
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FEMA TOPOGRAPHIC WORK MAP



DE BY: JDW	CH BY: JDW	PROJECT NO.
DR BY: MKB	APP BY: SKR	126234SG2018
STDS.	SHEET 16 OF 31	DR 16
DATE: OCTOBER 2023	FILE NO. DR-4499	
SCALE: 1 IN. = 150 FT		

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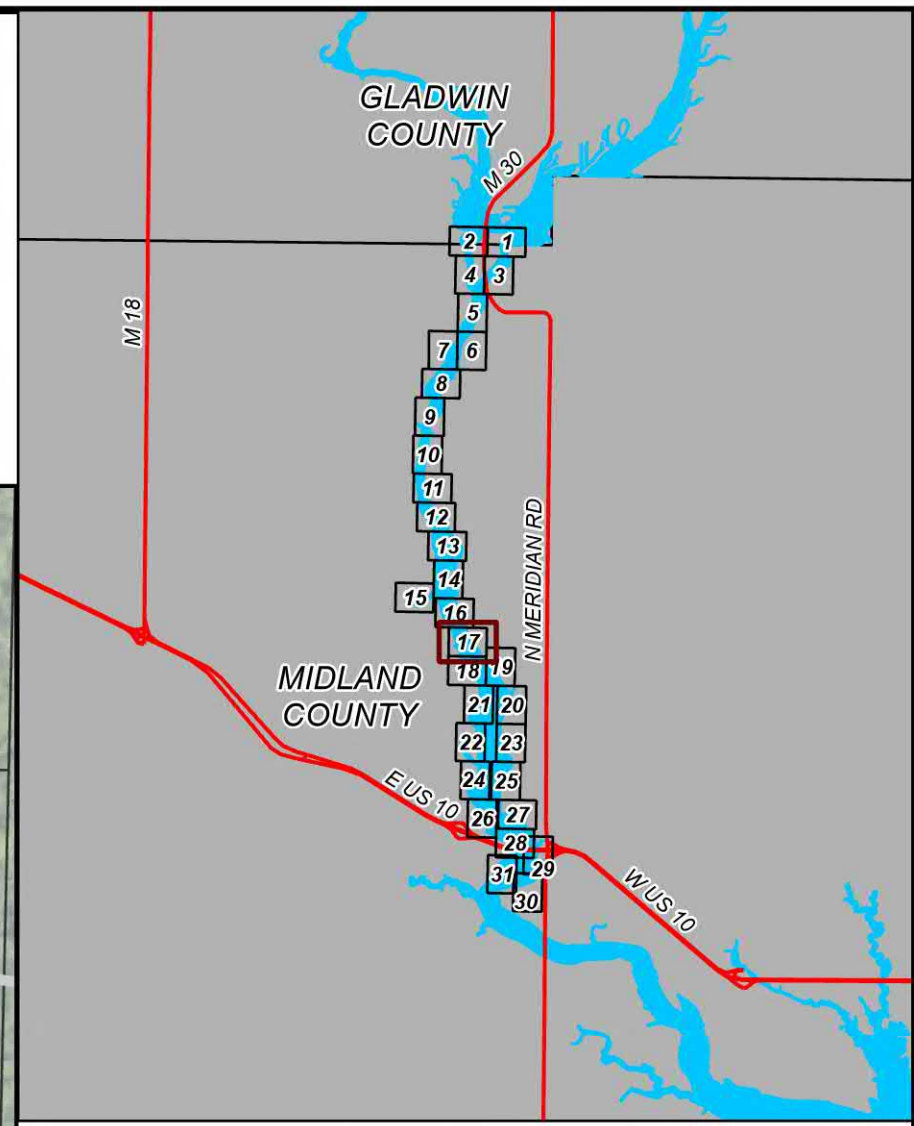
FEMA FLOODPLAIN TOPOGRAPHIC WORK MAP

MIDLAND AND GLADWIN COUNTIES, MICHIGAN

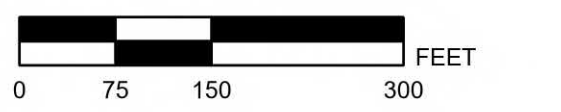
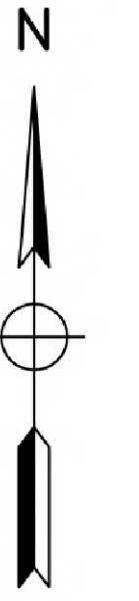
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SANFORD LAKE
MIDLAND COUNTY, MICHIGAN

FEMA TOPOGRAPHIC WORK MAP



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235 S. Washington Ave
Saginaw, MI 48607
Tel. 989-754-4747
www.SpicerGroup.com

DE BY: JDW	CH BY: JDW	PROJECT NO.
DR BY: MKB	APP BY: SKR	126234SG2018

STDS.	SHEET 17 OF 31	DR 17
DATE: OCTOBER 2023	FILE NO. DR-4499	
SCALE: 1 IN. = 150 FT		

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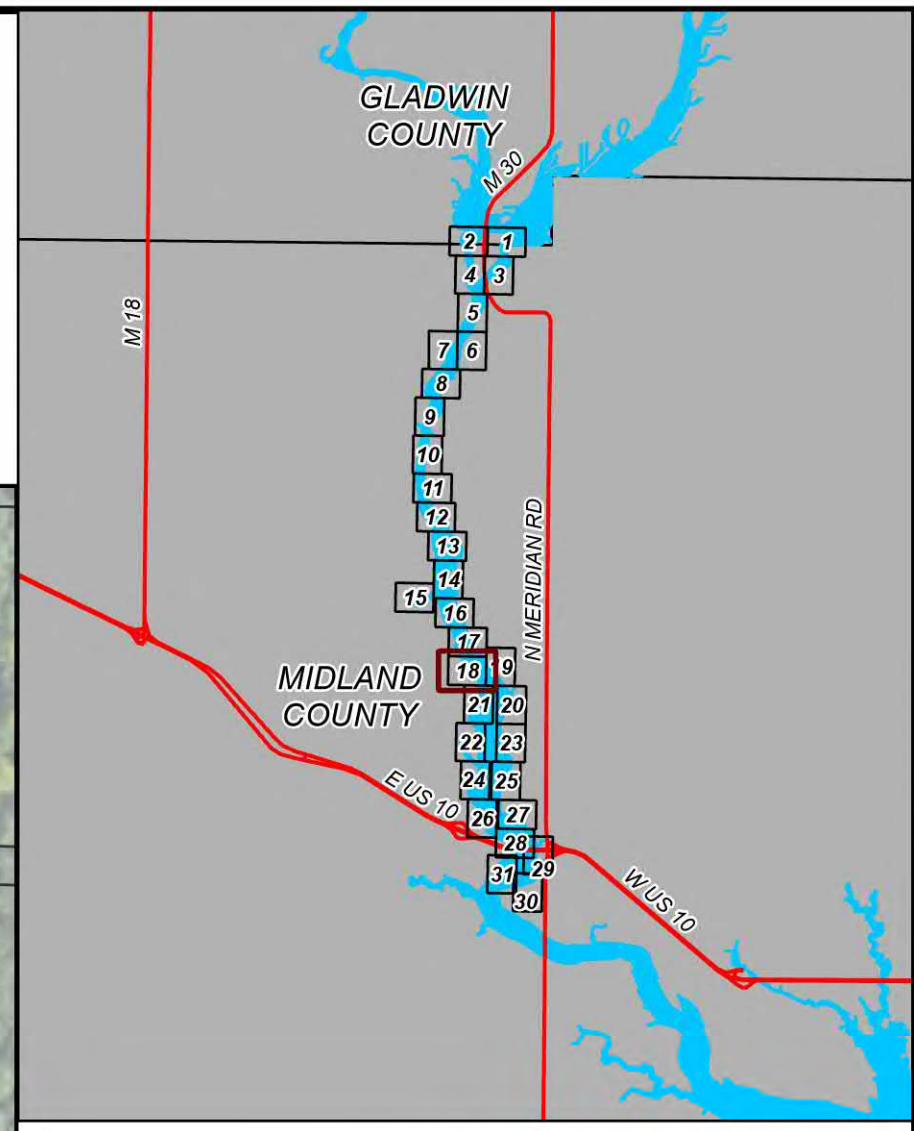
FEMA FLOODPLAIN TOPOGRAPHIC WORK MAP

MIDLAND AND GLADWIN COUNTIES, MICHIGAN

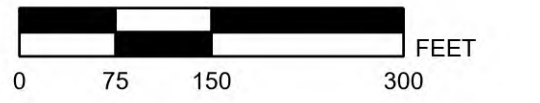
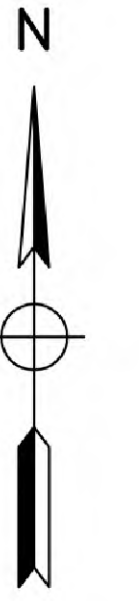
FOUR LAKES TASK FORCE - DAVID KEPLER

NOTES:

1. HORIZONTAL DATUM: MICHIGAN COORDINATE SYSTEM OF 1983, SOUTH ZONE, LAMBERT CONFORMAL PROJECTION OF THE NORTH AMERICAN DATUM OF 1983
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AREA MAP
NOT TO SCALE



LEGEND

- FEMA FIS 100-YR FLOW FLOODPLAIN: PRE-FLOOD DAM CONDITIONS
- FEMA FIS 100-YR FLOW FLOODPLAIN: PROPOSED DAM CONDITIONS
- FEMA EFFECTIVE ZONE AE FLOODPLAIN
- PROPOSED PROFILE BASELINE
- PROPOSED MODEL CROSS SECTION
- MUNICIPALITY BOUNDARIES
- PARCELS
- STATE ROADS
- COUNTY ROADS
- LOCAL ROADS

BY	MARK	REVISIONS	DATE

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SANFORD LAKE
MIDLAND COUNTY, MICHIGAN

FEMA TOPOGRAPHIC WORK MAP



DE BY: JDW	CH BY: JDW	PROJECT NO.
DR BY: MKB	APP BY: SKR	126234SG2018
STDS.	SHEET 18 OF 31	DR
DATE: OCTOBER 2023	FILE NO.	18
SCALE: 1 IN: 150 FT	DR-4499	



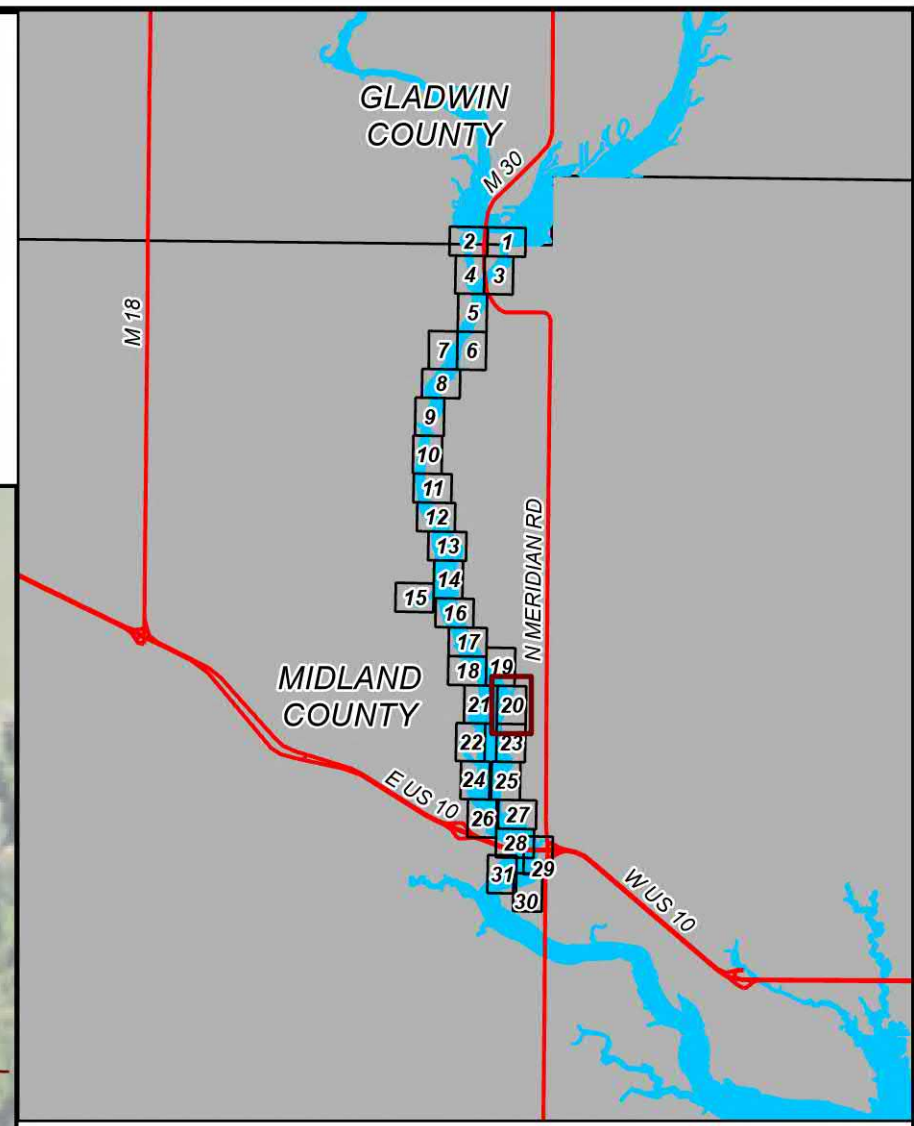
FEMA FLOODPLAIN TOPOGRAPHIC WORK MAP

MIDLAND AND GLADWIN COUNTIES, MICHIGAN

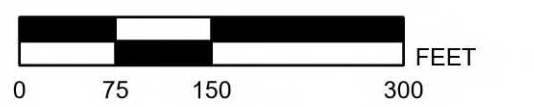
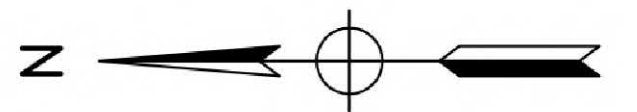
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SANFORD LAKE
MIDLAND COUNTY, MICHIGAN

FEMA TOPOGRAPHIC WORK MAP



DE BY: JDW	CH BY: JDW	PROJECT NO.
DR BY: MKB	APP BY: SKR	126234SG2018
STDS.	SHEET 20 OF 31	DR 20
DATE: OCTOBER 2023	FILE NO. DR-4499	
SCALE: 1 IN: 150 FT		

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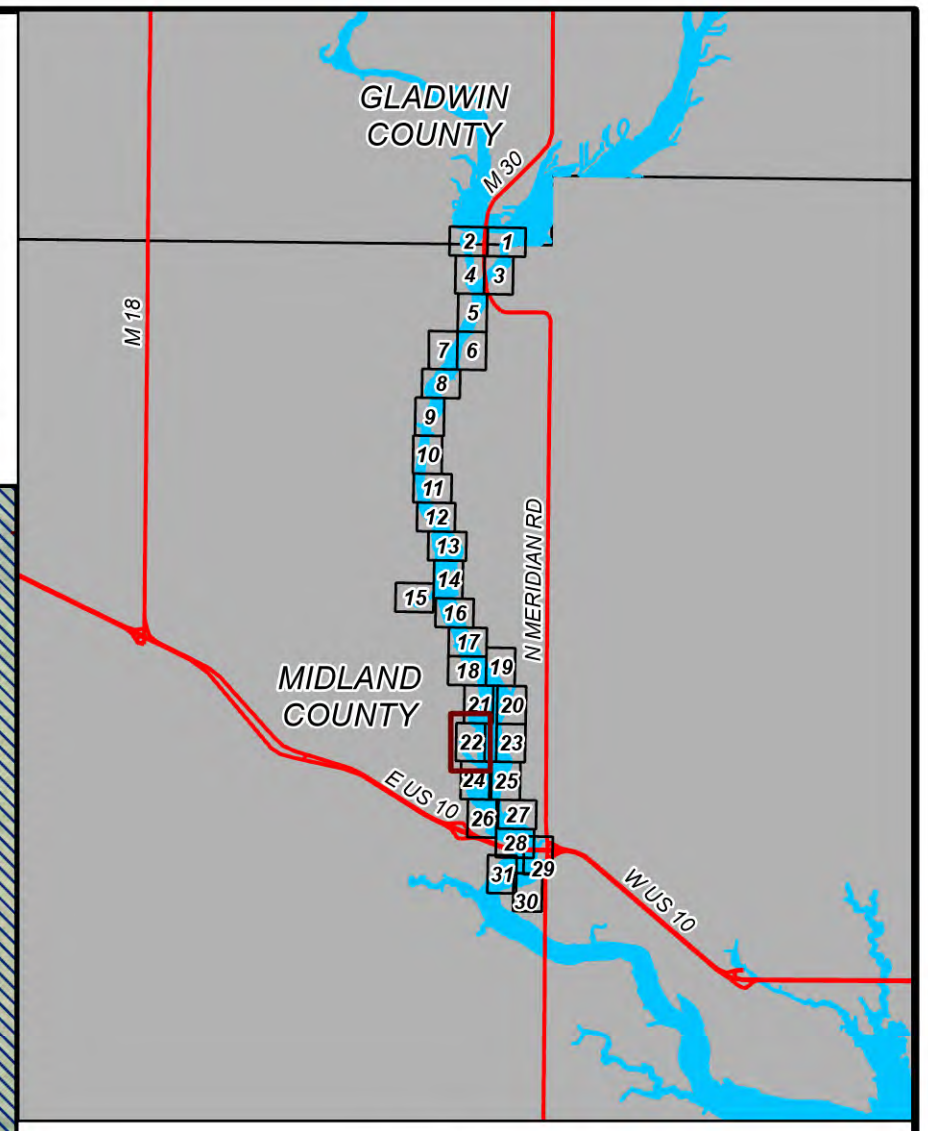
FEMA FLOODPLAIN TOPOGRAPHIC WORK MAP

MIDLAND AND GLADWIN COUNTIES, MICHIGAN

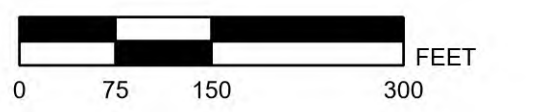
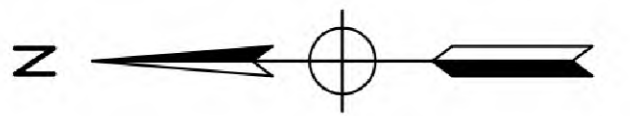
FOUR LAKES TASK FORCE - DAVID KEPLER

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<p>SANFORD LAKE MIDLAND COUNTY, MICHIGAN</p>			
<p>FEMA TOPOGRAPHIC WORK MAP</p>			
		<p>SAGINAW'S OFFICE 230 S Washington Ave Saginaw, MI 48607 Tel. 989-754-4747 www.SpicerGroup.com</p>	
DE BY: JDW	CH BY: JDW	PROJECT NO.	
DR BY: MKB	APP BY: SKR	126234SG2018	
STDS.	SHEET 22 OF 31	<p>DR 22</p>	
DATE: OCTOBER 2023	FILE NO. DR-4499		
SCALE: 1 IN. = 150 FT			

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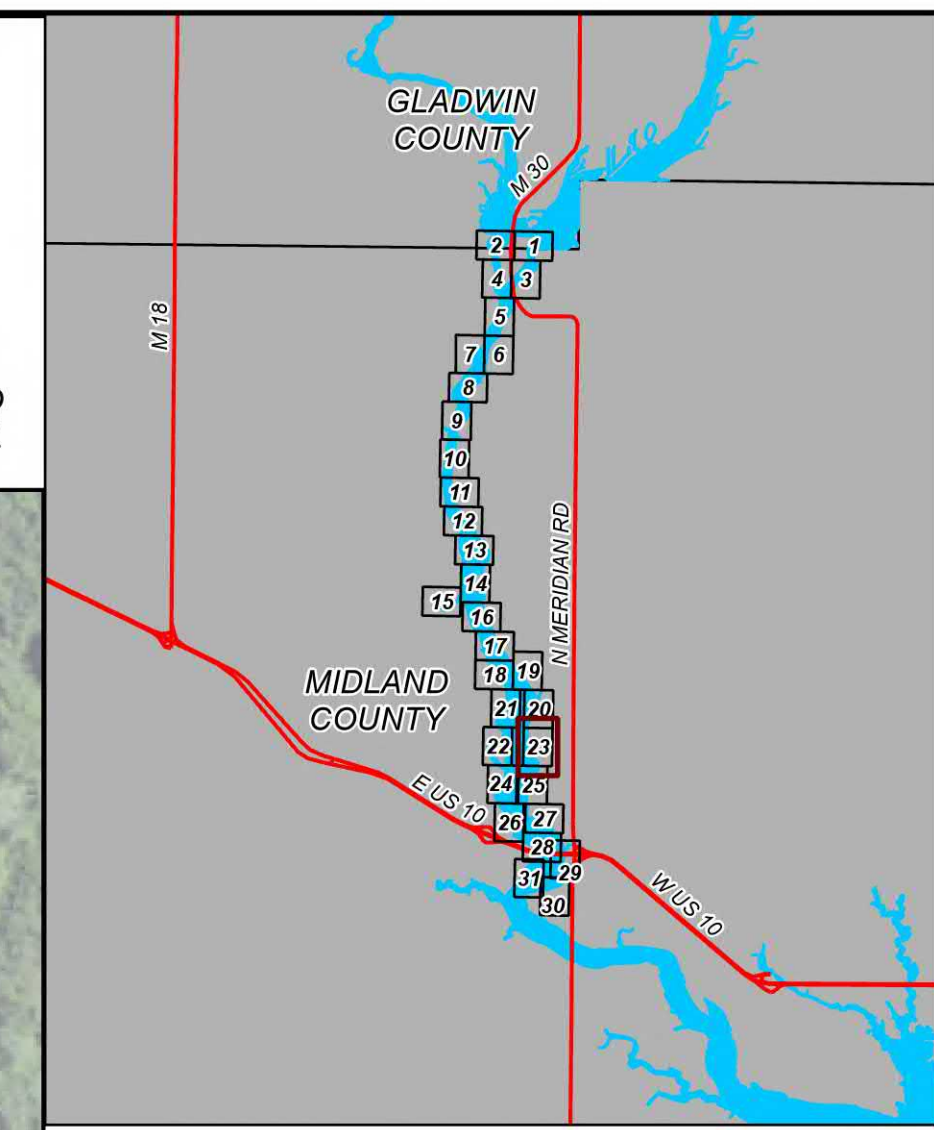
FEMA FLOODPLAIN TOPOGRAPHIC WORK MAP

MIDLAND AND GLADWIN COUNTIES, MICHIGAN

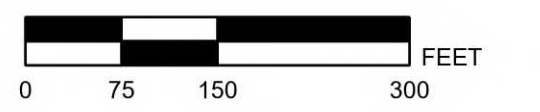
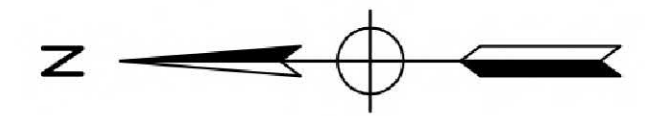
FOUR LAKES TASK FORCE - DAVID KEPLER

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AREA MAP
NOT TO SCALE



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SANFORD LAKE
MIDLAND COUNTY, MICHIGAN

FEMA TOPOGRAPHIC WORK MAP



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DE BY: JDW	CH BY: JDW	PROJECT NO.
DR BY: MKB	APP BY: SKR	126234SG2018
STDS.	SHEET 23 OF 31	DR 23
DATE: OCTOBER 2023	FILE NO. DR-4499	
SCALE: 1 IN: 150 FT		

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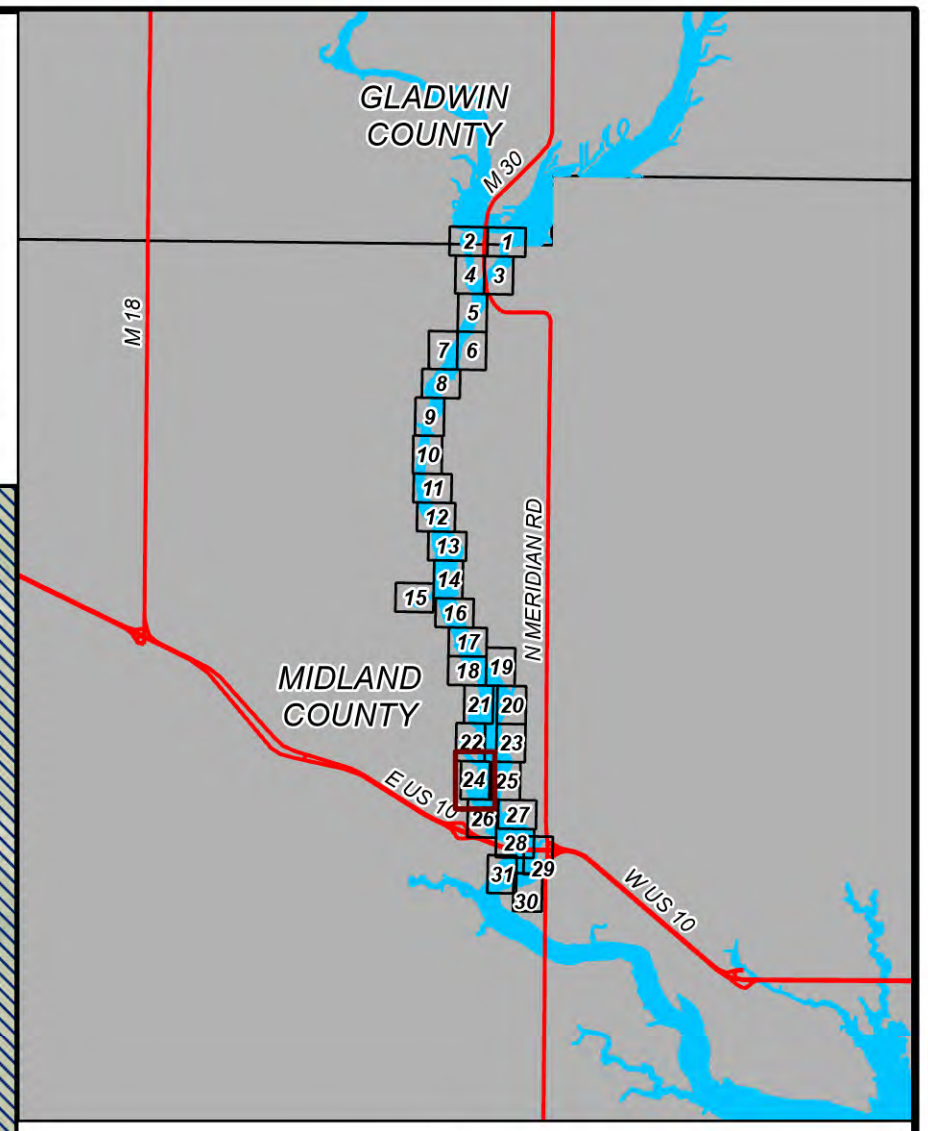
FEMA FLOODPLAIN TOPOGRAPHIC WORK MAP

MIDLAND AND GLADWIN COUNTIES, MICHIGAN

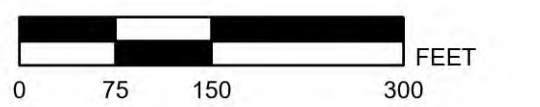
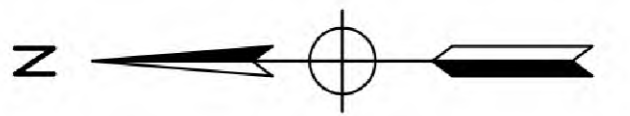
FOUR LAKES TASK FORCE - DAVID KEPLER

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AREA MAP
NOT TO SCALE



LEGEND

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SANFORD LAKE
MIDLAND COUNTY, MICHIGAN

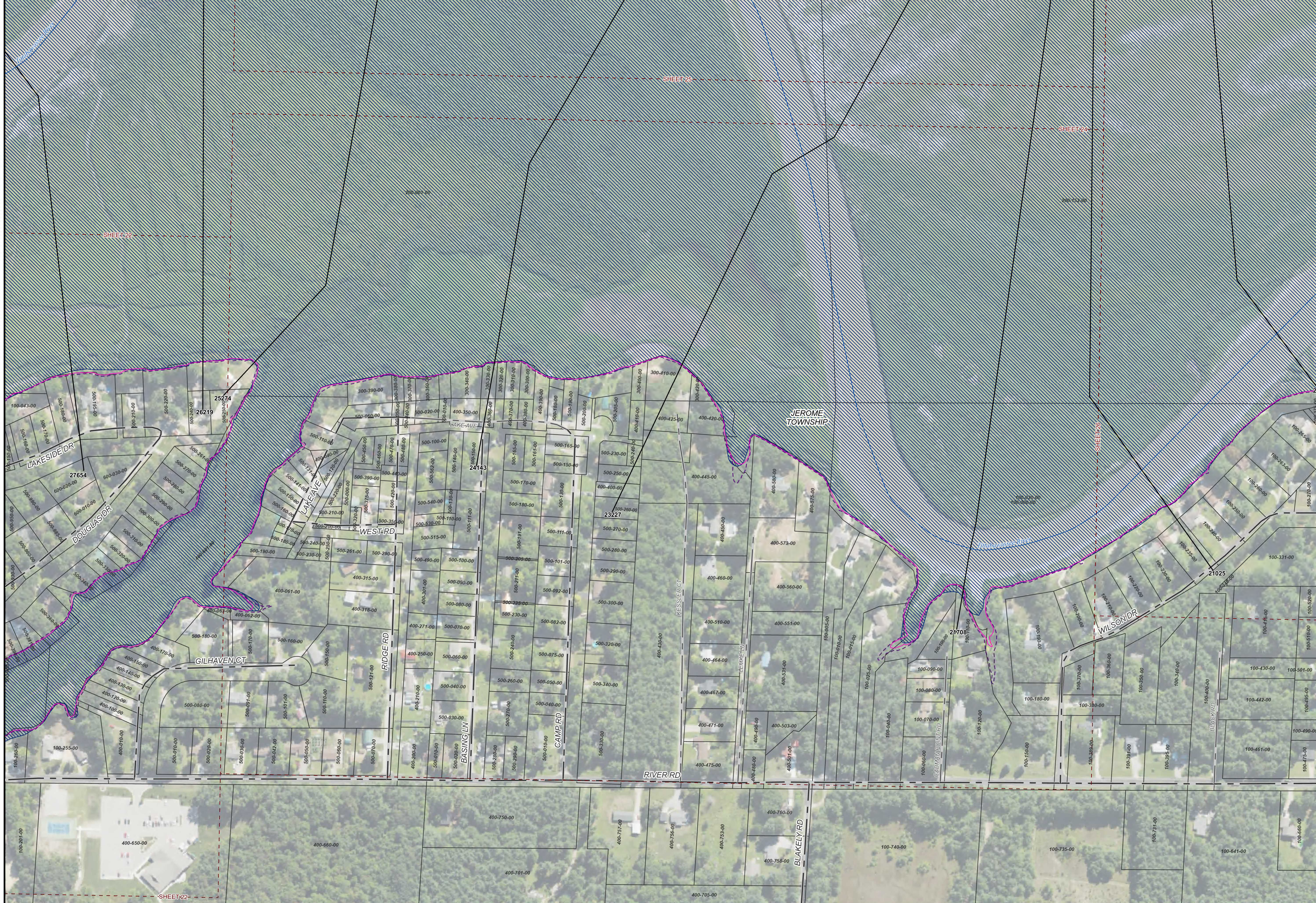
FEMA TOPOGRAPHIC
WORK MAP



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Saginaw, MI 48607
Tel. 989-754-4747
www.SpicerGroup.com

DE BY: JDW CH BY: JDW PROJECT NO.
DR BY: MKB APP BY: SKR 126234SG2018

STDS. SHEET 24 OF 31 FILE NO. DR
DATE: OCTOBER 2023 DR-4499
SCALE: 1 IN: 150 FT



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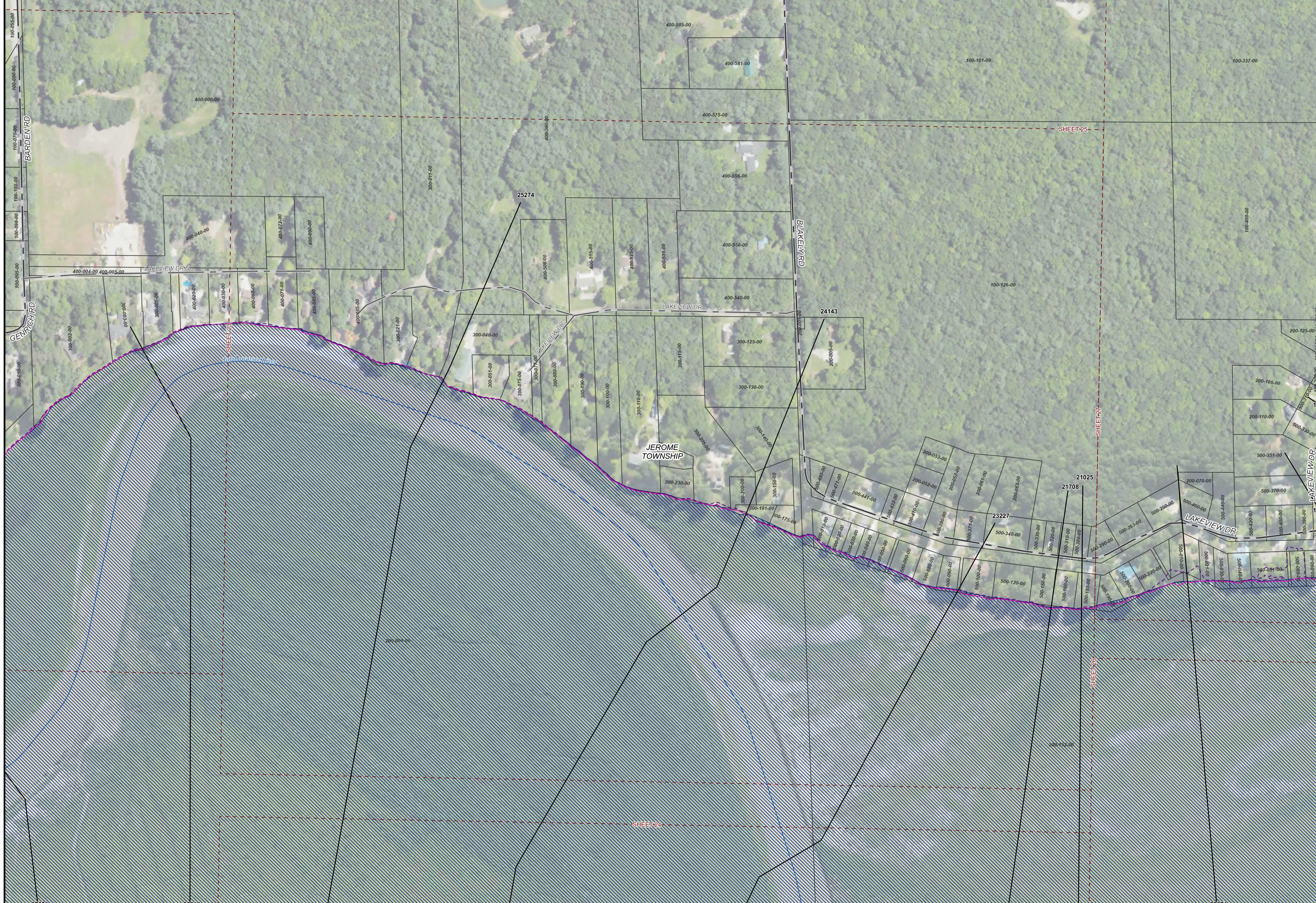
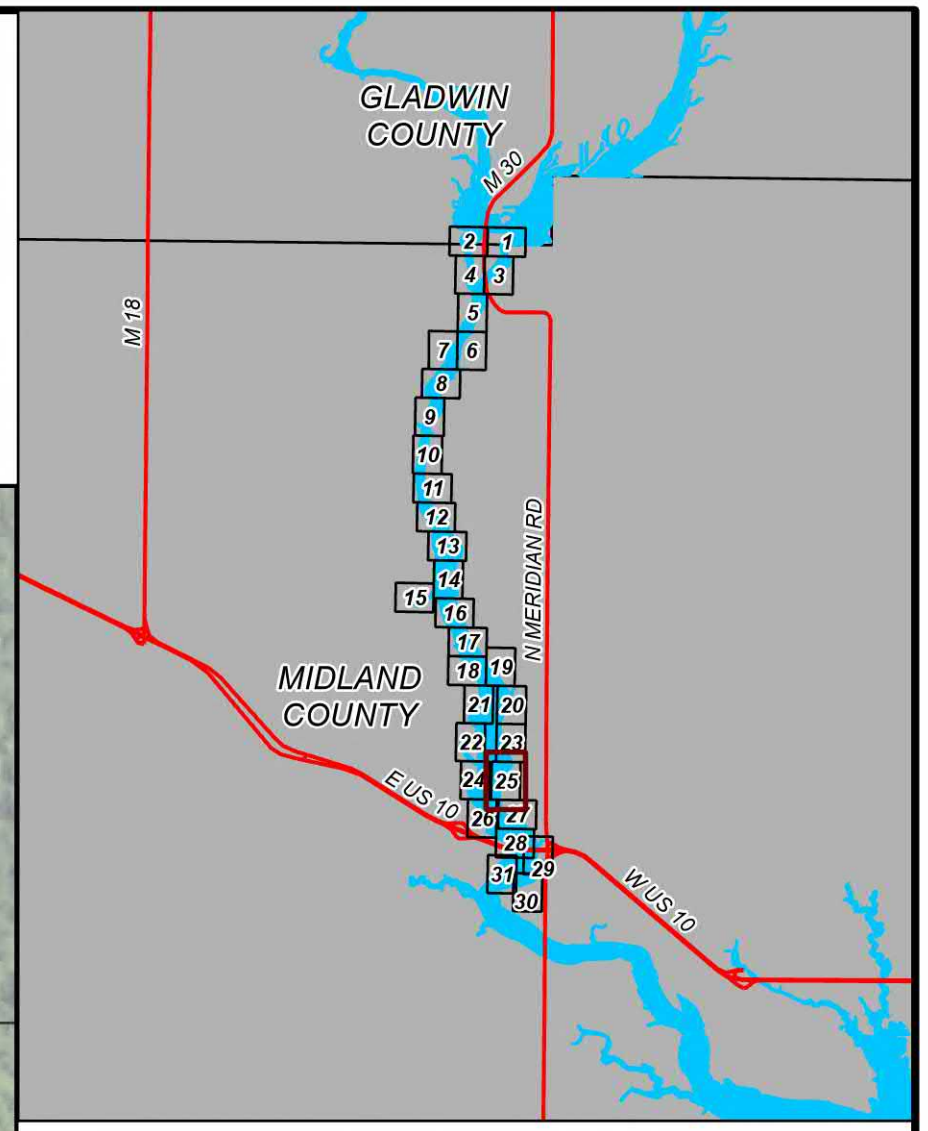
FEMA FLOODPLAIN TOPOGRAPHIC WORK MAP

MIDLAND AND GLADWIN COUNTIES, MICHIGAN

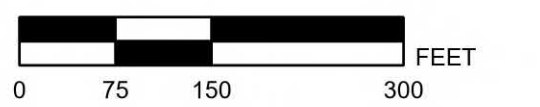
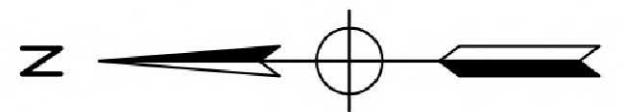
FOUR LAKES TASK FORCE - DAVID KEPLER

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AREA MAP
NOT TO SCALE



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BY	MARK	REVISIONS	DATE

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SANFORD LAKE
MIDLAND COUNTY, MICHIGAN

FEMA TOPOGRAPHIC WORK MAP



DE BY: JDW	CH BY: JDW	PROJECT NO.
DR BY: MKB	APP BY: SKR	126234SG2018
STDS.	SHEET 25 OF 31	DR 25
DATE: OCTOBER 2023	FILE NO. DR-4499	
SCALE: 1 IN: 150 FT		

PATH: C:\USERS\JONATHAN.WITHAM\WORKSPACE\GROUP\INCORPORATIONS\FOUR LAKES - CLIMATE/TOPOGRAPHIC MAPS\WORK PRINTED ON 10/20/23 BY: JONATHAN.WITHAM

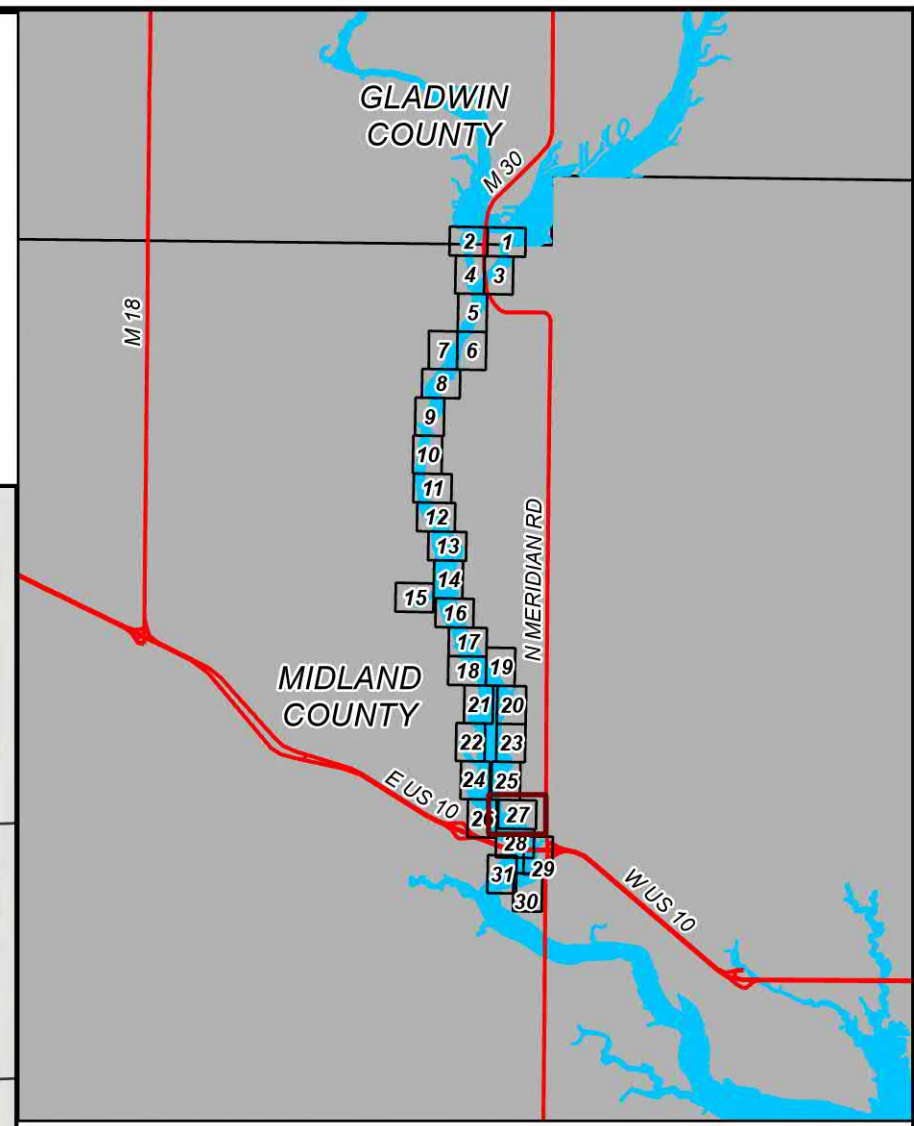


FEMA FLOODPLAIN TOPOGRAPHIC WORK MAP MIDLAND AND GLADWIN COUNTIES, MICHIGAN

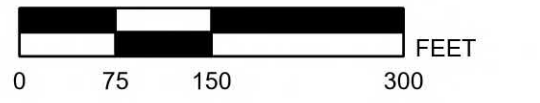
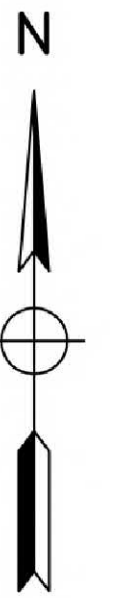
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SANFORD LAKE
MIDLAND COUNTY, MICHIGAN

**FEMA TOPOGRAPHIC
WORK MAP**



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DR BY: MKB	APP BY: SKR	126234SG2018

STDS.	SHEET 27 OF 31	DR 27
DATE: OCTOBER 2023	FILE NO. DR-4499	
SCALE: 1 IN. = 150 FT		



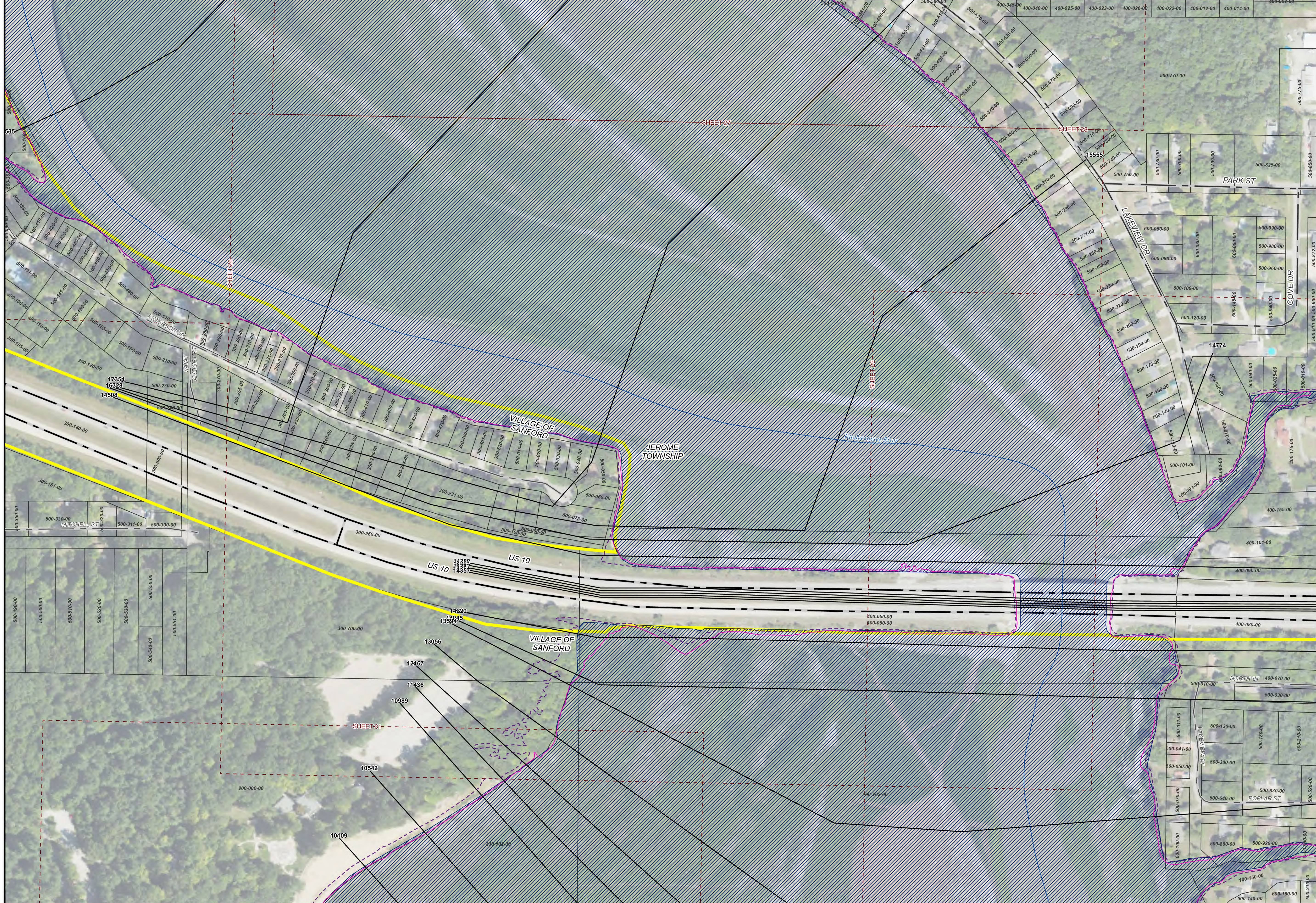
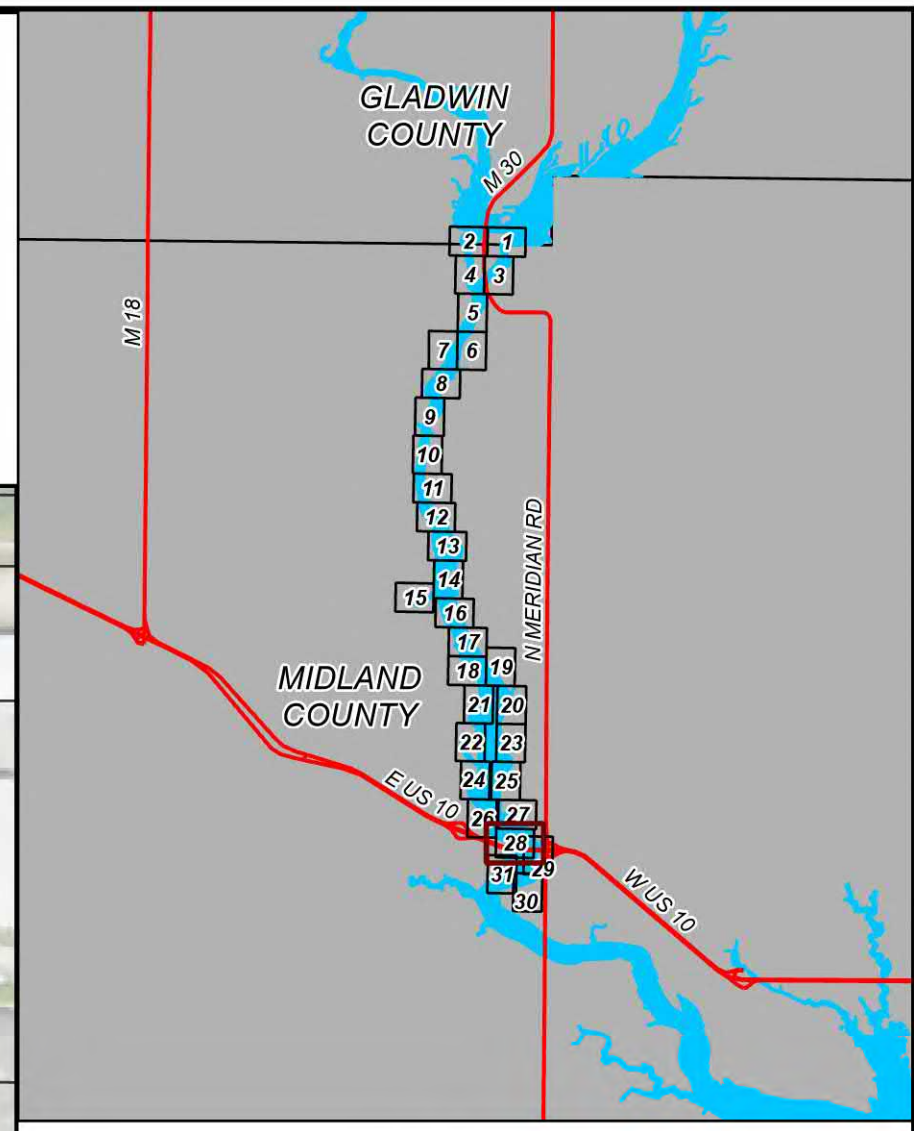
FEMA FLOODPLAIN TOPOGRAPHIC WORK MAP

MIDLAND AND GLADWIN COUNTIES, MICHIGAN

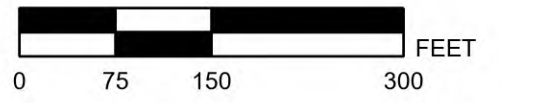
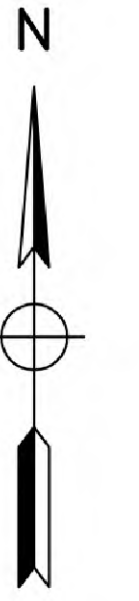
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AREA MAP
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SANFORD LAKE
MIDLAND COUNTY, MICHIGAN

FEMA TOPOGRAPHIC WORK MAP



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DE BY: JDW	CH BY: JDW	PROJECT NO.
DR BY: MKB	APP BY: SKR	126234SG2018
STDS.	SHEET 28 OF 31	DR 28
DATE: OCTOBER 2023	FILE NO. DR-4499	
SCALE: 1 IN. = 150 FT		



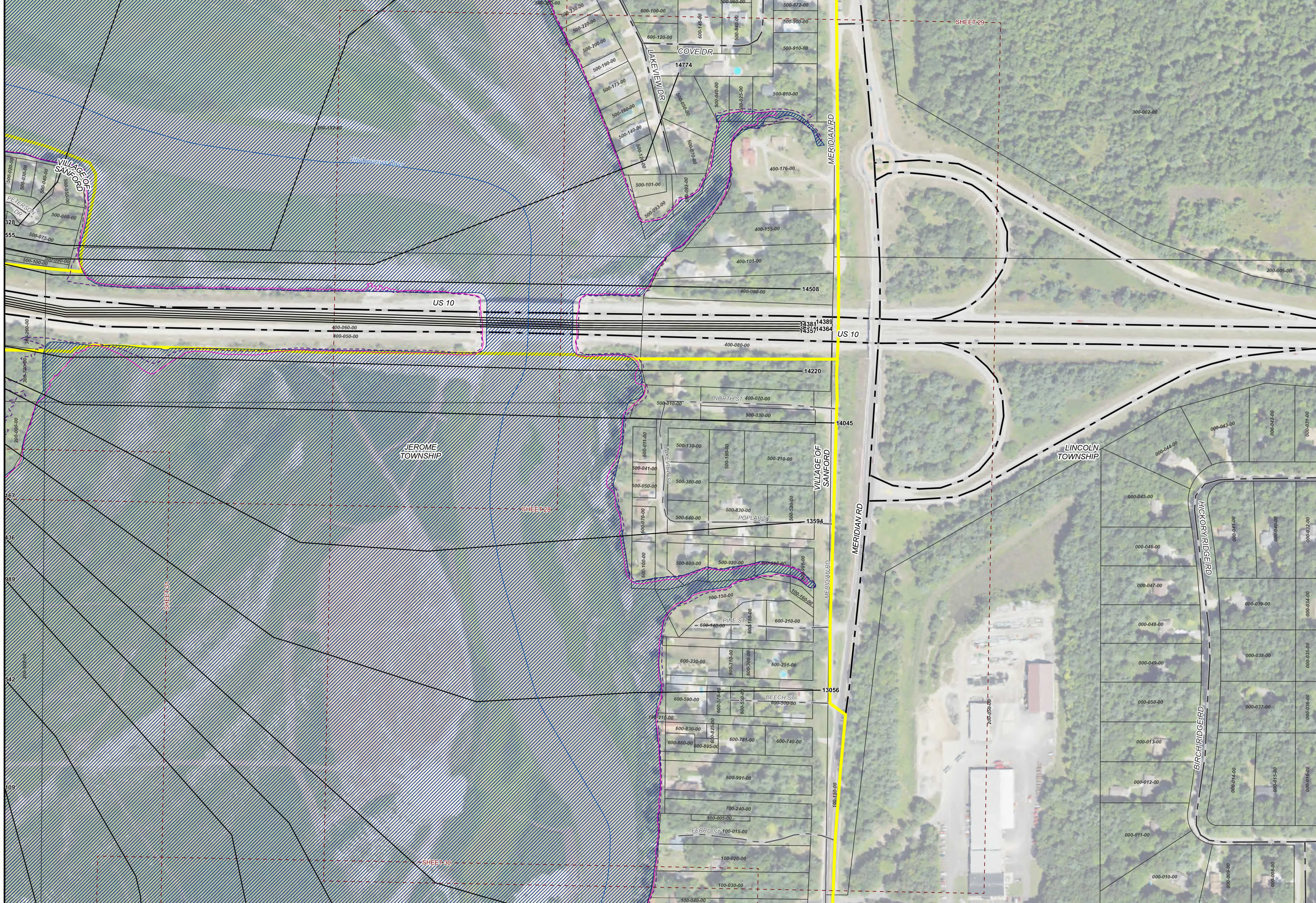
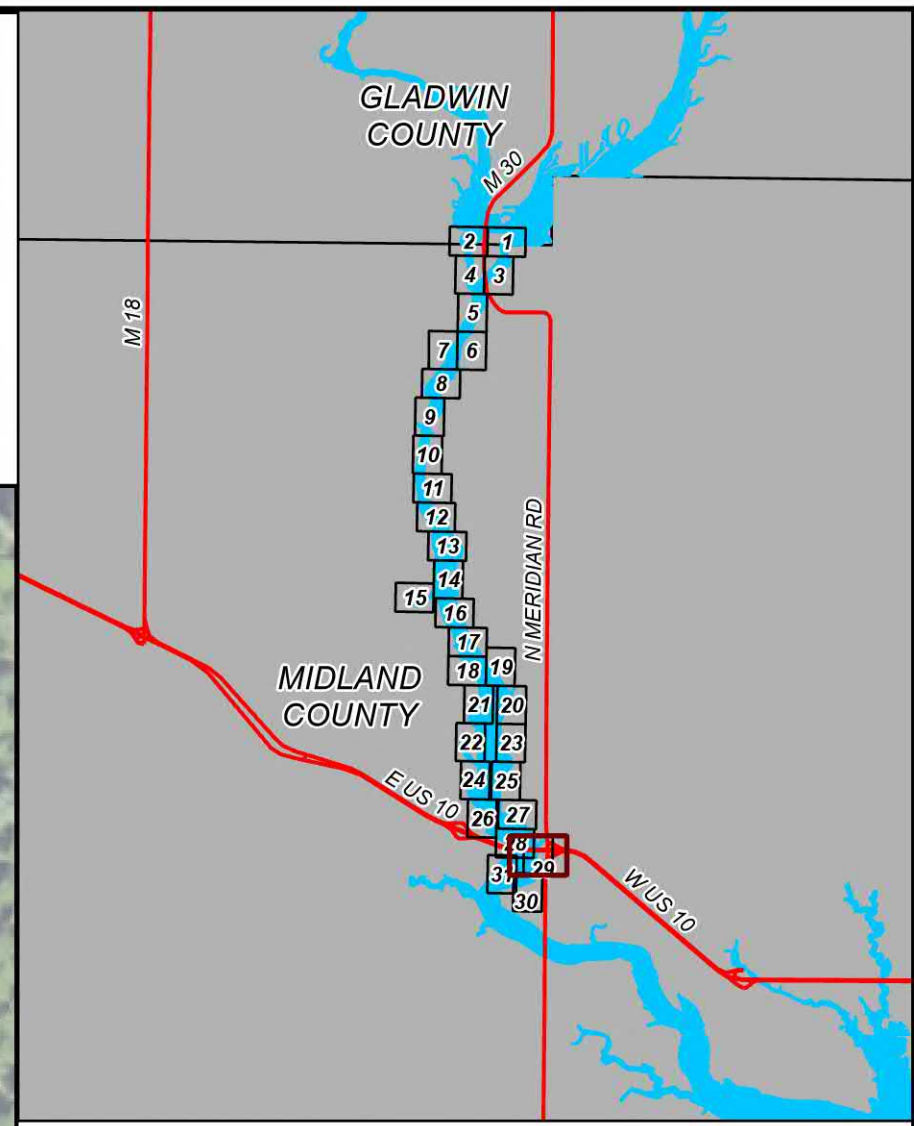
FEMA FLOODPLAIN TOPOGRAPHIC WORK MAP

MIDLAND AND GLADWIN COUNTIES, MICHIGAN

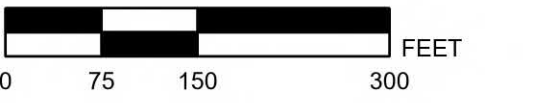
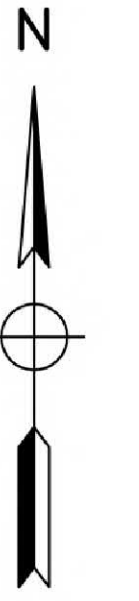
FOUR LAKES TASK FORCE - DAVID KEPLER

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AREA MAP
NOT TO SCALE



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MIDLAND COUNTY, MICHIGAN

FEMA TOPOGRAPHIC WORK MAP



DE BY: JDW	CH BY: JDW	PROJECT NO.
DR BY: MKB	APP BY: SKR	126234SG2018
STDS.	SHEET 29 OF 31	DR 29
DATE: OCTOBER 2023	FILE NO. DR-4499	
SCALE: 1 IN: 150 FT		



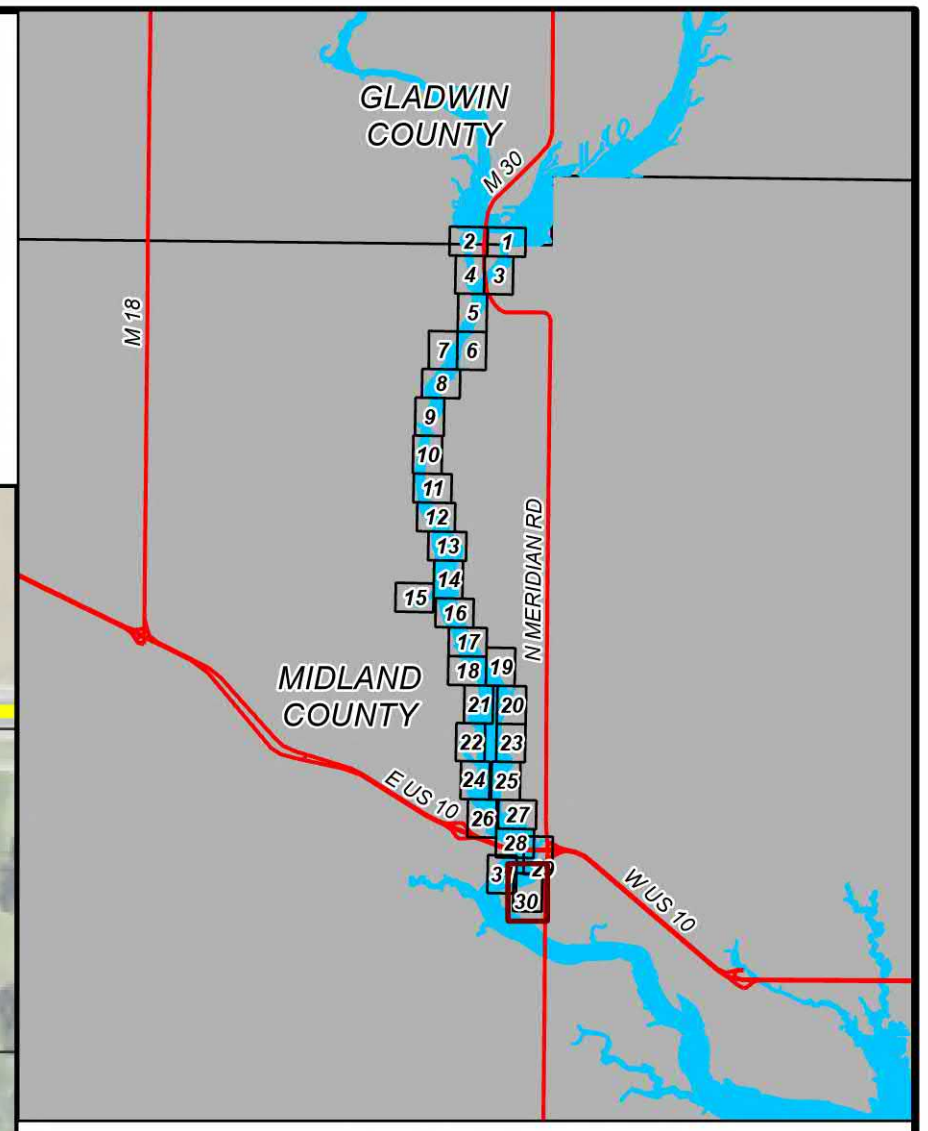
FEMA FLOODPLAIN TOPOGRAPHIC WORK MAP

MIDLAND AND GLADWIN COUNTIES, MICHIGAN

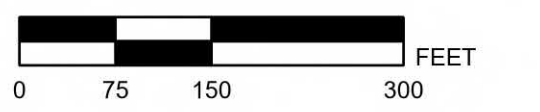
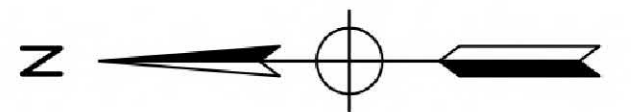
FOUR LAKES TASK FORCE - DAVID KEPLER

NOTES:

1. HORIZONTAL DATUM: MICHIGAN COORDINATE SYSTEM OF 1983, SOUTH ZONE, LAMBERT CONFORMAL PROJECTION OF THE NORTH AMERICAN DATUM OF 1983
2. VERTICAL DATUM: NORTH AMERICAN VERTICAL DATUM OF 1988.
3. THE EFFECTIVE MIDLAND COUNTY FIS (26111CV000B) STATES ANY PROPOSED CHANGES IN THE ZONE AE FLOODPLAIN DO NOT NEED TO TIE-IN TO THE ZONE A FLOODPLAIN DOWNSTREAM OF SANFORD DAM.



AREA MAP
NOT TO SCALE



LEGEND

- FEMA FIS 100-YR FLOW FLOODPLAIN: PRE-FLOOD DAM CONDITIONS
- FEMA FIS 100-YR FLOW FLOODPLAIN: PROPOSED DAM CONDITIONS
- FEMA EFFECTIVE ZONE AE FLOODPLAIN
- PROPOSED PROFILE BASELINE
- PROPOSED MODEL CROSS SECTION
- MUNICIPALITY BOUNDARIES
- PARCELS
- STATE ROADS
- COUNTY ROADS
- LOCAL ROADS

BY	MARK	REVISIONS	DATE

SANFORD LAKE
MIDLAND COUNTY, MICHIGAN

FEMA TOPOGRAPHIC WORK MAP



DE BY: JDW	CH BY: JDW	PROJECT NO.
DR BY: MKB	APP BY: SKR	12623SG2018
STDS.	SHEET 30 OF 31	DR 30
DATE: OCTOBER 2023	FILE NO.	DR-4499
SCALE: 1 IN. = 150 FT		

PLOT: C:\USERS\JONATHAN.WITHAM\WORKSPACE\GROUP\INCORPORATIONS\FOUR LAKES - CLIMATE TOPOGRAPHIC MAPS\ARCX\PRINTED ON 10/20/23, BY: JONATHAN.WITHAM

