


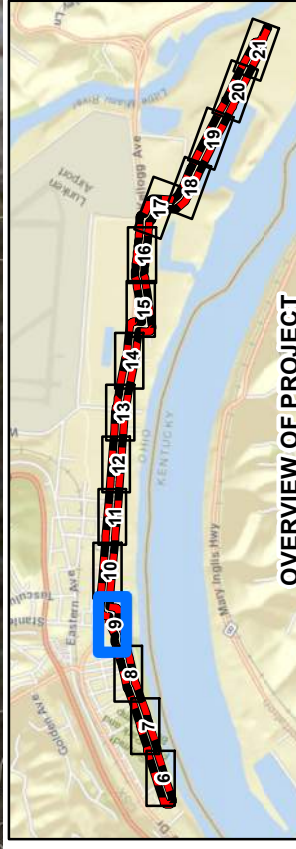
SOURCE: USDA FSA NATIONAL AGRICULTURAL IMAGERY PROGRAM (NAIP) HAMILTON COUNTY MOSAIC. IMAGE DATE: 2015.
 SOURCE: CAGIS 2-FOOT INTERVAL ELEVATION CONTOURS.



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 LINE D000B PIPELINE REPLACEMENT PROJECT
 CINCINNATI, HAMILTON COUNTY, OHIO

WETLAND AND WATERBODY DELINEATION
 AND PHOTOGRAPH LOCATION MAP




- ▬ Proposed Replacement Pipeline
- Variable Width Study Corridor
- Existing Culvert
- 2-Foot Contour Interval
- Delineated Wetland
- Palustrine Emergent (PEM)
- Palustrine Forested (PFO)
- Wetland Determination
- + Sample Point Location
- ▬ Ohio River or Backwater Area
- Photograph Location and Direction
- N NORTH

DRAWN BY: JBF | CHECKED BY: JAV | APPROVED BY: JAV | FIGURE NO: 9
 DATE: AUGUST 25, 2016 | DWG SCALE: 1" = 75' | PROJECT NO: 153-230

NOTES: FULL EXTENT OF STUDY CORRIDOR IS WITHIN 100-YEAR FLOODPLAIN.
 NO STREAMS OR WATERBODIES WERE IDENTIFIED WITHIN THE STUDY CORRIDOR.



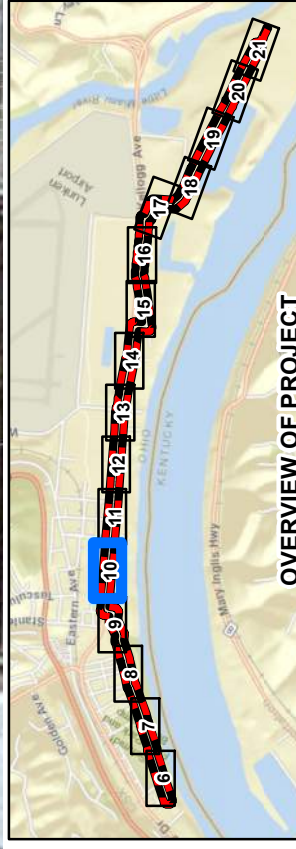
SOURCE: USDA FSA NATIONAL AGRICULTURAL IMAGERY PROGRAM (NAIP) HAMILTON COUNTY MOSAIC. IMAGE DATE: 2015.
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









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WETLAND AND WATERBODY DELINEATION
 AND PHOTOGRAPH LOCATION MAP




	Proposed Replacement Pipeline		Existing Culvert
	Variable Width Study Corridor		2-Foot Contour Interval
	Delineated Wetland		Photograph Location and Direction
	Palustrine Emergent (PEM)		Palustrine Forested (PFO)
	Palustrine Forested (PFO)		Wetland Determination Sample Point Location
	Ohio River or Backwater Area		NORTH

DRAWN BY: JBF | CHECKED BY: JAV | APPROVED BY: JAV | FIGURE NO: 10
 DATE: AUGUST 25, 2016 | DWG SCALE: 1" = 75' | PROJECT NO: 153-230

NOTES: FULL EXTENT OF STUDY CORRIDOR IS WITHIN 100-YEAR FLOODPLAIN.
 NO STREAMS OR WATERBODIES WERE IDENTIFIED WITHIN THE STUDY CORRIDOR.



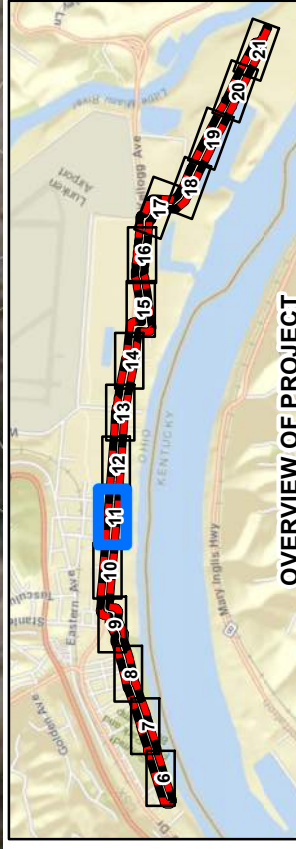
SOURCE: USDA FSA NATIONAL AGRICULTURAL IMAGERY PROGRAM (NAIP) HAMILTON COUNTY MOSAIC. IMAGE DATE: 2015.
 SOURCE: CAGIS 2-FOOT INTERVAL ELEVATION CONTOURS.



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WETLAND AND WATERBODY DELINEATION
 AND PHOTOGRAPH LOCATION MAP



Proposed Replacement Pipeline Existing Culvert

Variable Width Study Corridor 2-Foot Contour Interval

Delineated Wetland

- Palustrine Emergent (PEM)
- Palustrine Forested (PFO)
- Wetland Determination Sample Point Location
- Ohio River or Backwater Area

Photograph Location and Direction

NORTH


DRAWN BY: JBF CHECKED BY: JAV APPROVED BY: JAV FIGURE NO: **11**

DATE: AUGUST 25, 2016 DWG SCALE: 1" = 75' PROJECT NO: 153-230

NOTES: FULL EXTENT OF STUDY CORRIDOR IS WITHIN 100-YEAR FLOODPLAIN.
 NO STREAMS OR WATERBODIES WERE IDENTIFIED WITHIN THE STUDY CORRIDOR.



SOURCE: USDA FSA NATIONAL AGRICULTURAL IMAGERY PROGRAM (NAIP) HAMILTON COUNTY MOSAIC. IMAGE DATE: 2015.
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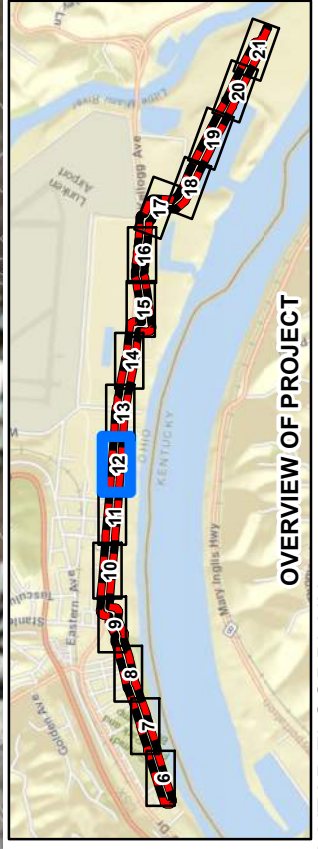


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WETLAND AND WATERBODY DELINEATION
 AND PHOTOGRAPH LOCATION MAP

DRAWN BY: JBF | CHECKED BY: JAV | APPROVED BY: JAV | FIGURE NO: 12
 DATE: AUGUST 25, 2016 | DWG SCALE: 1" = 75' | PROJECT NO: 153-230

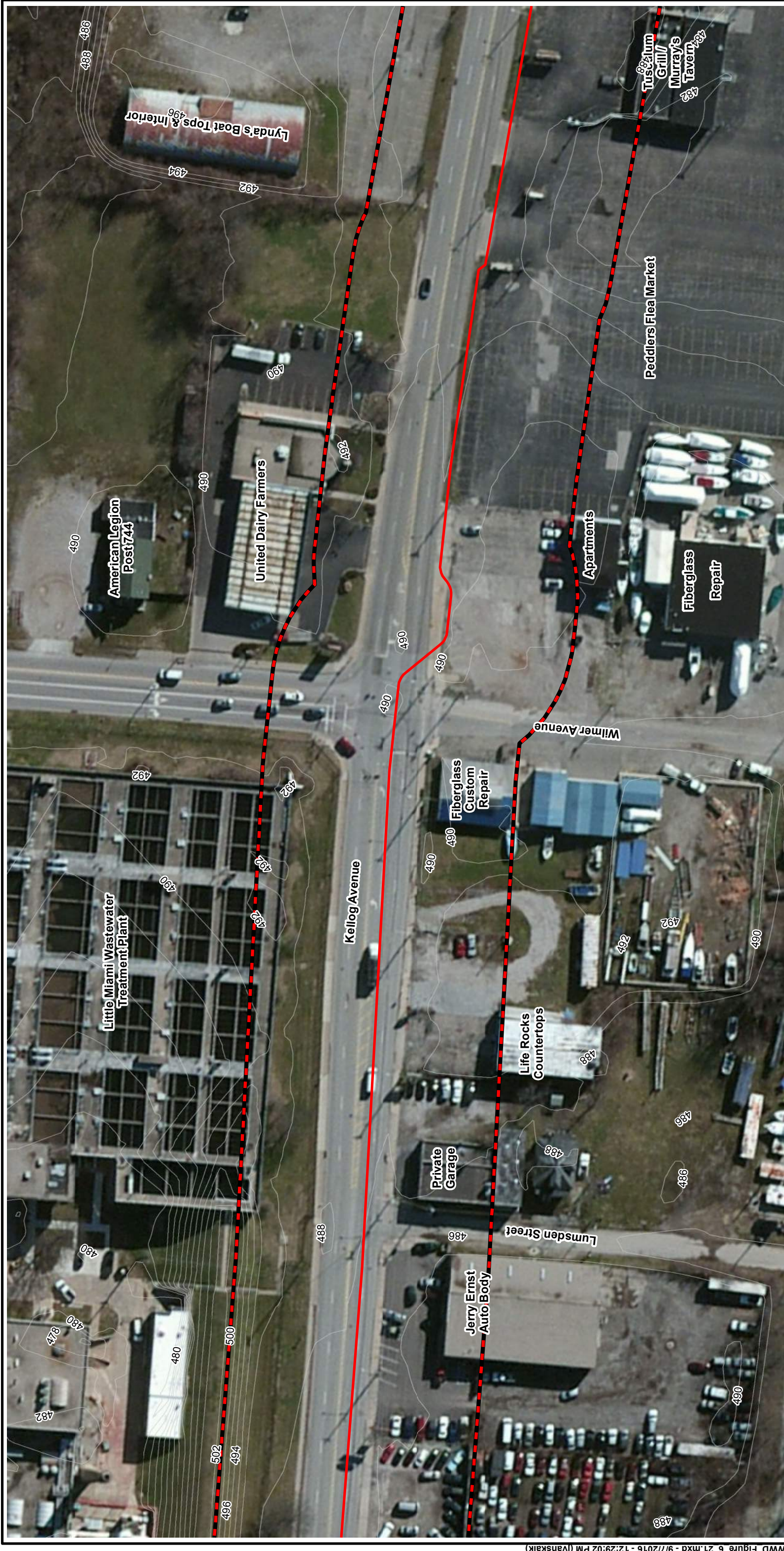


0 75 150 Feet


- Proposed Replacement Pipeline
- Variable Width Study Corridor
- Delineated Wetland
- Palustrine Emergent (PEM)
- Palustrine Forested (PFO)
- + Wetland Determination Sample Point Location
- Ohio River or Backwater Area
- Existing Culvert
- 2-Foot Contour Interval
- + Photograph Location and Direction

NORTH

NOTES: FULL EXTENT OF STUDY CORRIDOR IS WITHIN 100-YEAR FLOODPLAIN.
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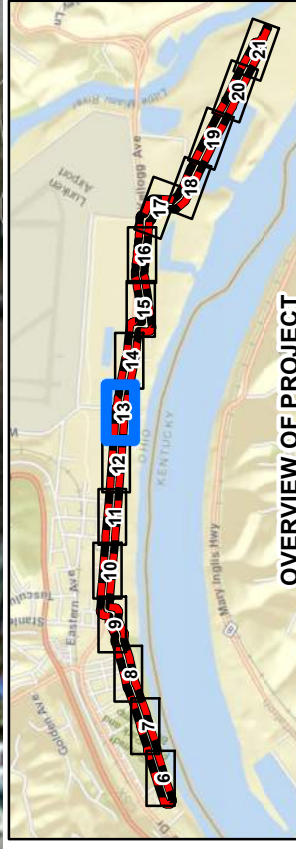
SOURCE: USDA FSA NATIONAL AGRICULTURAL IMAGERY PROGRAM (NAIP) HAMILTON COUNTY MOSAIC. IMAGE DATE: 2015.
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WETLAND AND WATERBODY DELINEATION
 AND PHOTOGRAPH LOCATION MAP




- Proposed Replacement Pipeline
- Variable Width Study Corridor
- Existing Culvert
- 2-Foot Contour Interval
- Delineated Wetland
- Palustrine Emergent (PEM)
- Palustrine Forested (PFO)
- + Wetland Determination Sample Point Location
- Ohio River or Backwater Area
- Photograph Location and Direction
- NORTH

DRAWN BY: JBF | CHECKED BY: JAV | APPROVED BY: JAV | FIGURE NO: 13
 DATE: AUGUST 25, 2016 | DWG SCALE: 1" = 75' | PROJECT NO: 153-230

NOTES: FULL EXTENT OF STUDY CORRIDOR IS WITHIN 100-YEAR FLOODPLAIN.
 NO STREAMS OR WATERBODIES WERE IDENTIFIED WITHIN THE STUDY CORRIDOR.



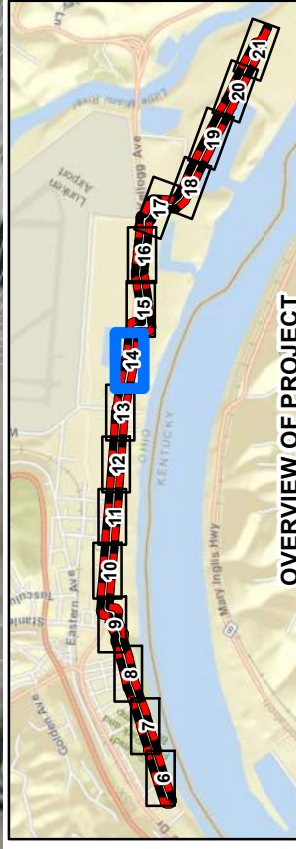
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 SOURCE: CAGIS 2-FOOT INTERVAL ELEVATION CONTOURS.







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


WETLAND AND WATERBODY DELINEATION
 AND PHOTOGRAPH LOCATION MAP





Proposed Replacement Pipeline  Existing Culvert 

Variable Width Study Corridor  2-Foot Contour Interval 

Delineated Wetland

-  Palustrine Emergent (PEM)
-  Palustrine Forested (PFO)
-  Wetland Determination Sample Point Location
-  Ohio River or Backwater Area

Photograph Location and Direction 


NORTH 

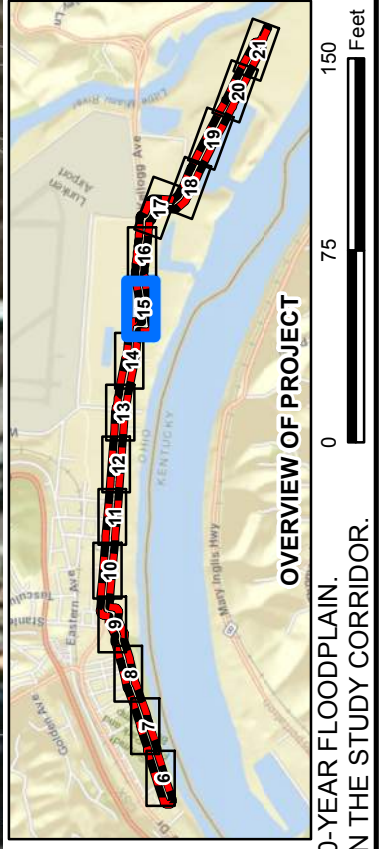
DRAWN BY: JBF | CHECKED BY: JAV | APPROVED BY: JAV | FIGURE NO: 14
 DATE: AUGUST 25, 2016 | DWG SCALE: 1" = 75' | PROJECT NO: 153-230

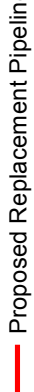
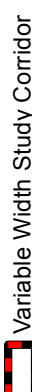



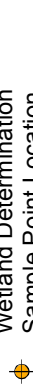
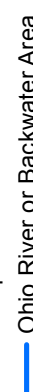
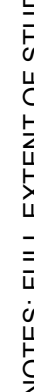
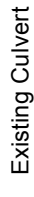
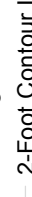
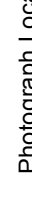

NOTES: FULL EXTENT OF STUDY CORRIDOR IS WITHIN 100-YEAR FLOODPLAIN.
 NO STREAMS OR WATERBODIES WERE IDENTIFIED WITHIN THE STUDY CORRIDOR.



SOURCE: USDA FSA NATIONAL AGRICULTURAL IMAGERY PROGRAM (NAIP) HAMILTON COUNTY MOSAIC. IMAGE DATE: 2015.
 SOURCE: CAGIS 2-FOOT INTERVAL ELEVATION CONTOURS.

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	WETLAND AND WATERBODY DELINEATION AND PHOTOGRAPH LOCATION MAP	
DRAWN BY: JBF CHECKED BY: JAV APPROVED BY: JAV FIGURE NO: 15	DATE: AUGUST 25, 2016 DWG SCALE: 1" = 75' PROJECT NO: 153-230	

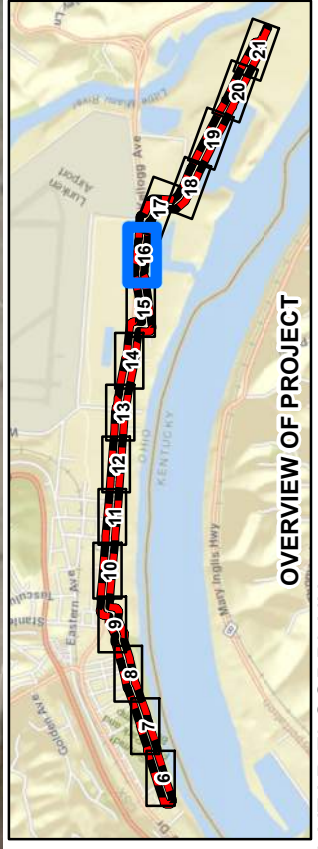


 Proposed Replacement Pipeline  Variable Width Study Corridor  Delineated Wetland  Palustrine Emergent (PEM)  Palustrine Forested (PFO)  Wetland Determination  Sample Point Location  Ohio River or Backwater Area	 Existing Culvert  2-Foot Contour Interval  Photograph Location and Direction  NORTH
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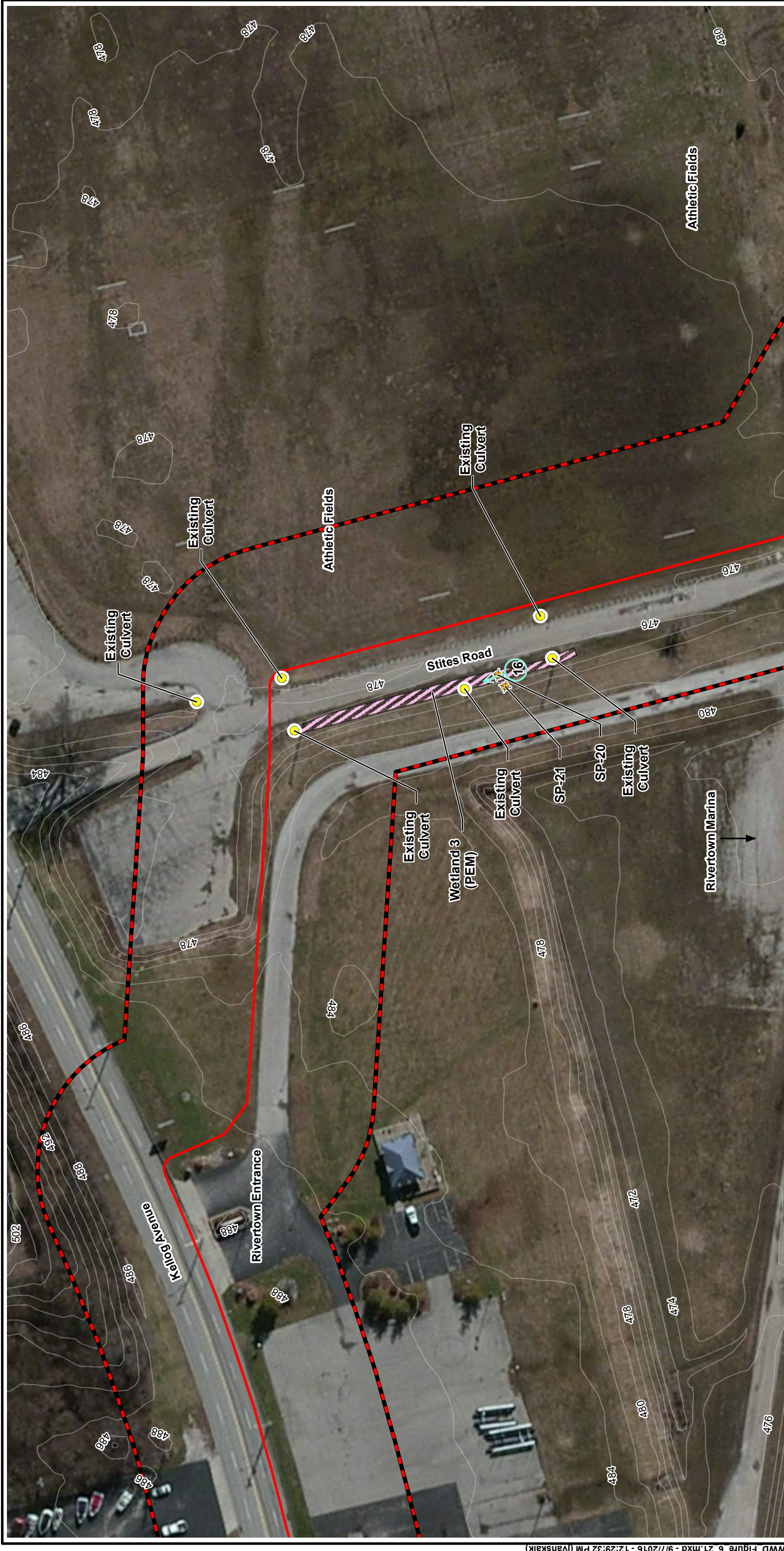
SOURCE: USDA FSA NATIONAL AGRICULTURAL IMAGERY PROGRAM (NAIP) HAMILTON COUNTY MOSAIC. IMAGE DATE: 2015.
 SOURCE: CAGIS 2-FOOT INTERVAL ELEVATION CONTOURS.




- Proposed Replacement Pipeline
- Existing Culvert
- Variable Width Study Corridor
- 2-Foot Contour Interval
- Photograph Location and Direction
- Delineated Wetland
- Palustrine Emergent (PEM)
- Palustrine Forested (PFO)
- Wetland Determination
- Sample Point Location
- Ohio River or Backwater Area

NOTES: FULL EXTENT OF STUDY CORRIDOR IS WITHIN 100-YEAR FLOODPLAIN.
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	WETLAND AND WATERBODY DELINEATION AND PHOTOGRAPH LOCATION MAP		WETLAND AND WATERBODY DELINEATION AND PHOTOGRAPH LOCATION MAP
DRAWN BY: JBF DATE: AUGUST 25, 2016	CHECKED BY: JAV APPROVED BY: JAV	DWG SCALE: 1" = 75' PROJECT NO: 153-230	FIGURE NO: 16



SOURCE: USDA FSA NATIONAL AGRICULTURAL IMAGERY PROGRAM (NAIP) HAMILTON COUNTY MOSAIC. IMAGE DATE: 2015.
 SOURCE: CAGIS 2-FOOT INTERVAL ELEVATION CONTOURS.

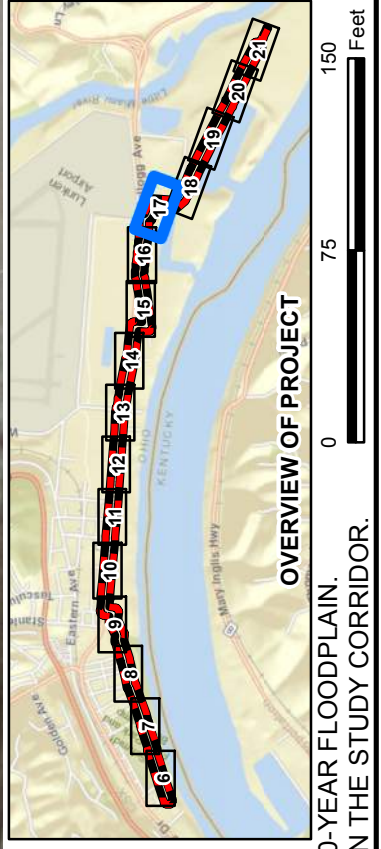


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WETLAND AND WATERBODY DELINEATION
 AND PHOTOGRAPH LOCATION MAP

DRAWN BY: JBF | CHECKED BY: JAV | APPROVED BY: JAV | FIGURE NO: 17
 DATE: AUGUST 25, 2016 | DWG SCALE: 1" = 75' | PROJECT NO: 153-230



Proposed Replacement Pipeline — Existing Culvert ●

Variable Width Study Corridor 2-Foot Contour Interval —

Delineated Wetland Photograph Location and Direction ↗

 Palustrine Emergent (PEM)

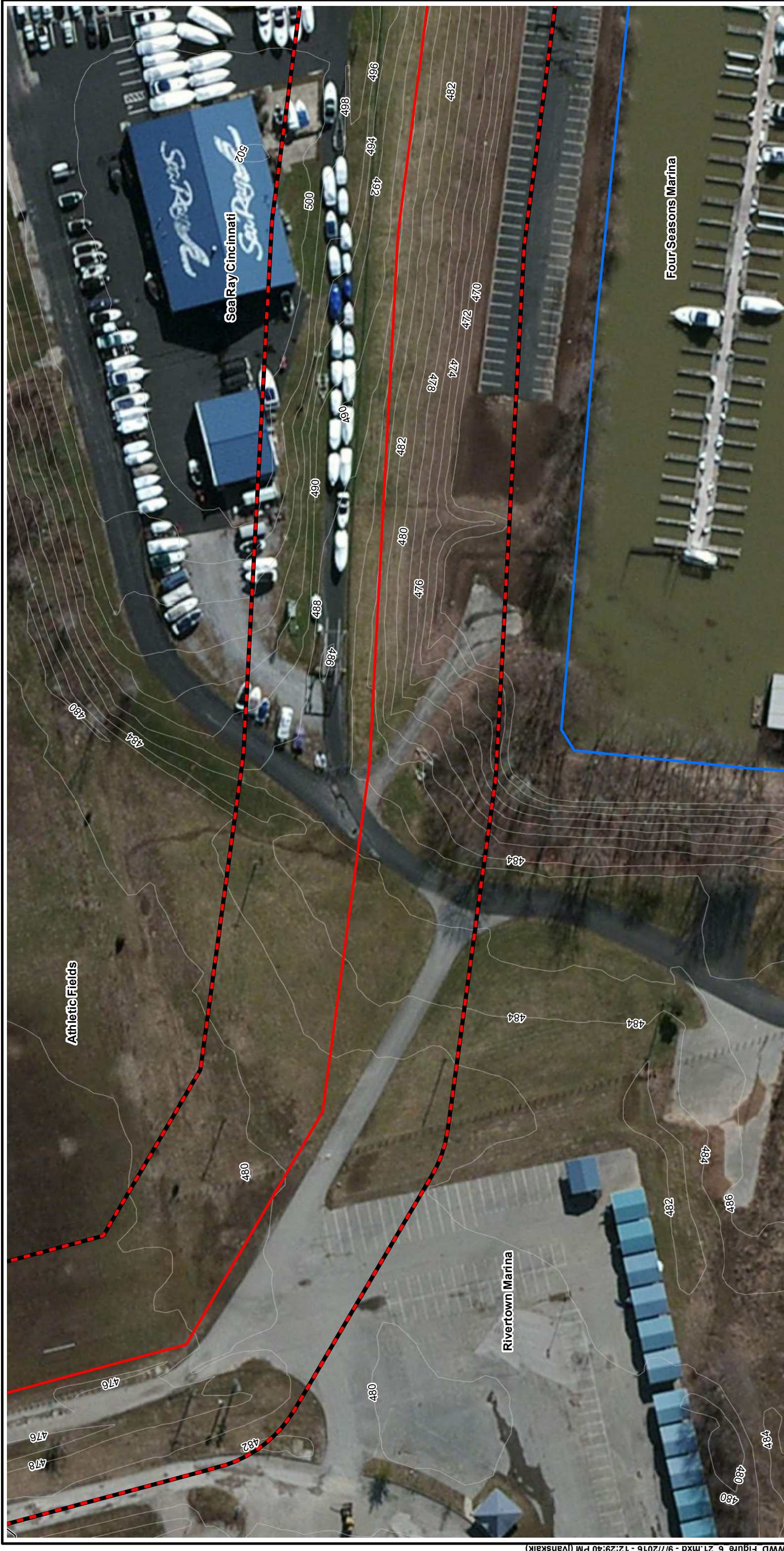
 Palustrine Forested (PFO)

● Wetland Determination Sample Point Location


— Ohio River or Backwater Area

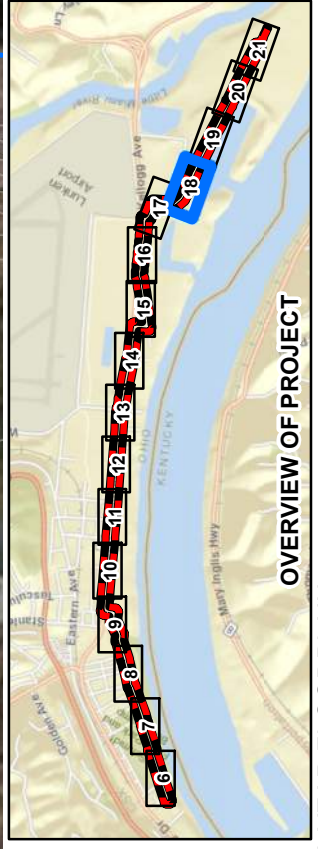
NORTH












NOTES: FULL EXTENT OF STUDY CORRIDOR IS WITHIN 100-YEAR FLOODPLAIN. NO STREAMS OR WATERBODIES WERE IDENTIFIED WITHIN THE STUDY CORRIDOR.



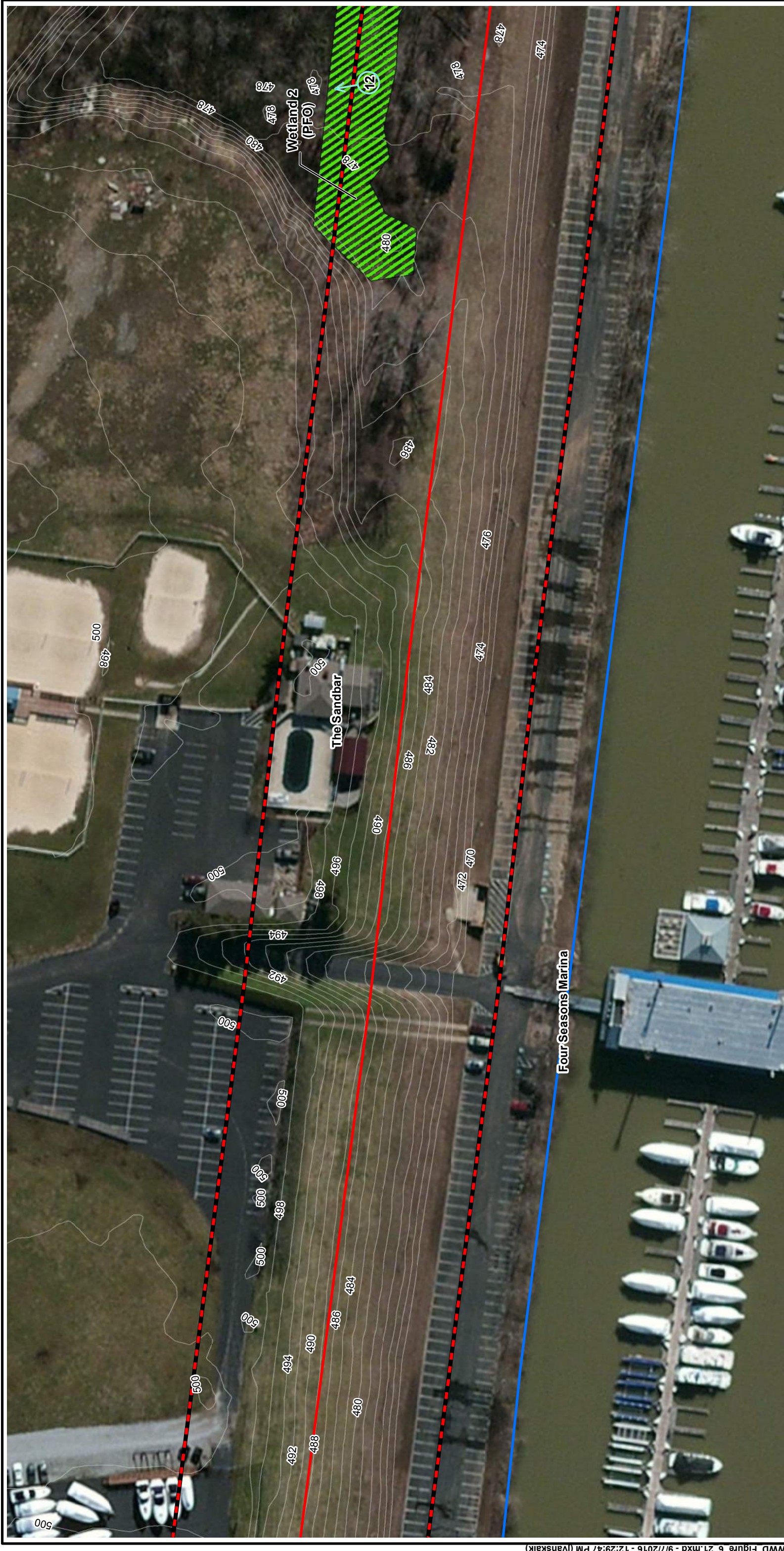
SOURCE: USDA FSA NATIONAL AGRICULTURAL IMAGERY PROGRAM (NAIP) HAMILTON COUNTY MOSAIC. IMAGE DATE: 2015.
 SOURCE: CAGIS 2-FOOT INTERVAL ELEVATION CONTOURS.

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	WETLAND AND WATERBODY DELINEATION AND PHOTOGRAPH LOCATION MAP	
DRAWN BY: JBF DATE: AUGUST 25, 2016	CHECKED BY: JAV DWG SCALE: 1" = 75'	APPROVED BY: JAV PROJECT NO: 153-230
		FIGURE NO: 18




-  Proposed Replacement Pipeline
-  Variable Width Study Corridor
-  Delineated Wetland
-  Palustrine Emergent (PEM)
-  Palustrine Forested (PFO)
-  Wetland Determination Sample Point Location
-  Ohio River or Backwater Area
-  Existing Culvert
-  2-Foot Contour Interval
-  Photograph Location and Direction
-  NORTH

NOTES: FULL EXTENT OF STUDY CORRIDOR IS WITHIN 100-YEAR FLOODPLAIN. NO STREAMS OR WATERBODIES WERE IDENTIFIED WITHIN THE STUDY CORRIDOR.



SOURCE: USDA FSA NATIONAL AGRICULTURAL IMAGERY PROGRAM (NAIP) HAMILTON COUNTY MOSAIC. IMAGE DATE: 2015.
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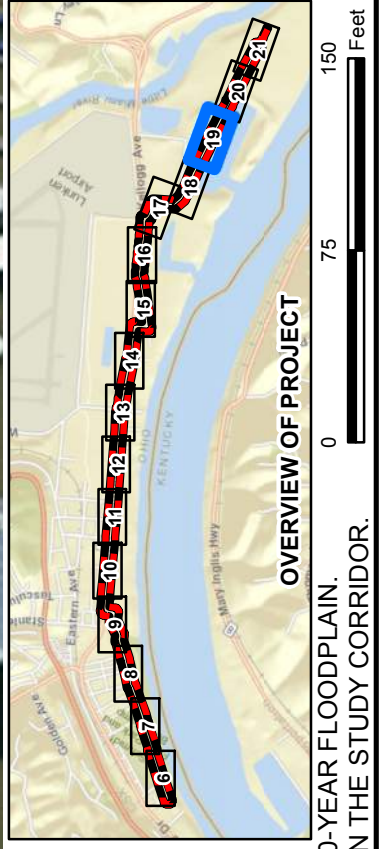


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 CINCINNATI, HAMILTON COUNTY, OHIO

WETLAND AND WATERBODY DELINEATION
 AND PHOTOGRAPH LOCATION MAP

DRAWN BY: JBF | CHECKED BY: JAV | APPROVED BY: JAV | FIGURE NO: 19
 DATE: AUGUST 25, 2016 | DWG SCALE: 1" = 75' | PROJECT NO: 153-230




- Proposed Replacement Pipeline
- Variable Width Study Corridor
- Delineated Wetland
- Palustrine Emergent (PEM)
- Palustrine Forested (PFO)
- + Wetland Determination Sample Point Location
- Ohio River or Backwater Area
- Existing Culvert
- 2-Foot Contour Interval
- ↔ Photograph Location and Direction
- ← NORTH

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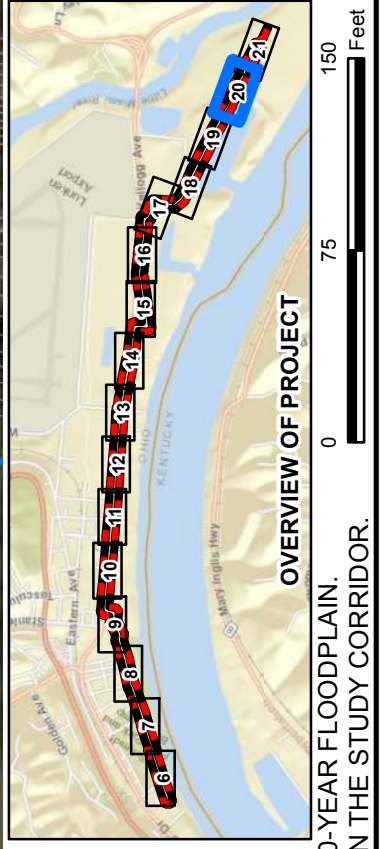


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WETLAND AND WATERBODY DELINEATION
 AND PHOTOGRAPH LOCATION MAP

DRAWN BY:	JBF	CHECKED BY:	JAV
DATE:	AUGUST 25, 2016	DWG SCALE:	1" = 75'
PROJECT NO.:	153-230	FIGURE NO.:	20



Proposed Replacement Pipeline ● Existing Culvert

Variable Width Study Corridor 2-Foot Contour Interval

Delineated Wetland

- Palustrine Emergent (PEM)
- Palustrine Forested (PFO)
- Wetland Determination
- Sample Point Location
- Ohio River or Backwater Area


Photograph Location and Direction

NORTH

NOTES: FULL EXTENT OF STUDY CORRIDOR IS WITHIN 100-YEAR FLOODPLAIN.
 NO STREAMS OR WATERBODIES WERE IDENTIFIED WITHIN THE STUDY CORRIDOR.



SOURCE: USDA FSA NATIONAL AGRICULTURAL IMAGERY PROGRAM (NAIP) HAMILTON COUNTY MOSAIC. IMAGE DATE: 2015.
 SOURCE: CAGIS 2-FOOT INTERVAL ELEVATION CONTOURS.

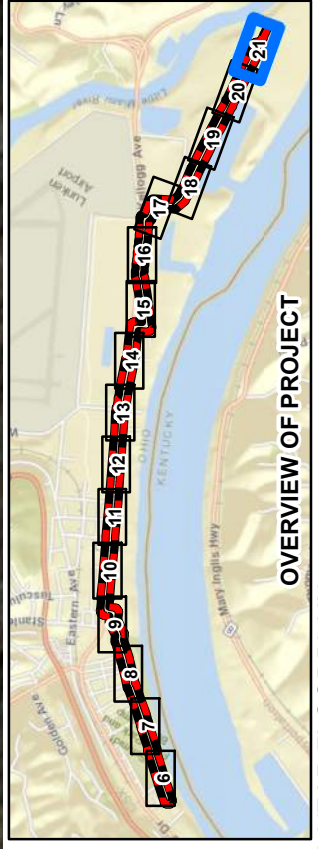


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DUKE ENERGY
 LINE D000B PIPELINE REPLACEMENT PROJECT
 CINCINNATI, HAMILTON COUNTY, OHIO

WETLAND AND WATERBODY DELINEATION
 AND PHOTOGRAPH LOCATION MAP

DRAWN BY: JBF | CHECKED BY: JAV | APPROVED BY: JAV | FIGURE NO: 21
 DATE: AUGUST 25, 2016 | DWG SCALE: 1" = 75' | PROJECT NO: 153-230



- Proposed Replacement Pipeline
- Existing Culvert
- Variable Width Study Corridor
- 2-Foot Contour Interval
- Delineated Wetland
- Palustrine Emergent (PEM)
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- + Wetland Determination Sample Point Location
- Ohio River or Backwater Area
- ↔ Photograph Location and Direction
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NOTES: FULL EXTENT OF STUDY CORRIDOR IS WITHIN 100-YEAR FLOODPLAIN.
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APPENDIX A
SITE PHOTOGRAPHS



Photograph 1. View of maintained Line D000B ROW, south of proposed southern terminus of Project. Photograph taken facing south-southeast.



Photograph 2. View of existing Line D000B ROW at the southern terminus of study corridor. Photograph taken facing south.

Line D000B Pipeline Replacement Project
Cincinnati, Hamilton County, Ohio
CEC Project 153-230
Photographed on May 16, 18 and 19, 2016



Photograph 3. Representative view of the PEM portion of Wetland 1.
Photograph taken facing north-northwest along existing, maintained utility ROW.



Photograph 4. Representative view of the PFO portion of Wetland 1 along the west side of the Line D000B ROW near the southern terminus of the Project.
Photograph taken facing south-southwest.

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Photograph 5. View of high water table at wetland determination SP-1.



Photograph 6. View of the PFO portion of Wetland 1 along the west side of the Line D000B ROW near the southern terminus of the Project.
Photograph taken facing west.

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Photograph 7. Representative view of elevated and maintained ROW, bisecting Wetland 1 at wetland determination SP-6. Photograph taken facing south.



Photograph 8. Representative view of elevated and maintained Line D000B ROW, bisecting Wetland 1. Photograph taken facing north.

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Photograph 9. Representative view of the PFO portion of Wetland 1 along the east side of the Line D000B ROW near the southern terminus of the Project.
Photograph taken facing northeast.



Photograph 10. View of high water table and low-chroma soil from wetland determination SP-8.

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