

Information for File #2014-00931-ERH

Applicant: Minnesota Department of Transportation, Scott Morgan

Corps Contact: Eric Hanson

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Phone: (651) 290-5386

Primary County: Nicollet

Section: 3, 4, 5, 9, 10, 11, 13, 14, 24; 19, 29, 30, 32, 33

Township: 109N

Range: 28W; 27W

Information Complete on: August 9, 2014

Posting Expires: August 19, 2014

Authorization Type: LOP-05-MN

This application is being reviewed in accordance with the practices for documenting Corps jurisdiction under Sections 9 & 10 of the Rivers and Harbor Act of 1899 and Section 404 of the Clean Water Act identified in Regulatory Guidance Letter 07-01. We have made a preliminary determination that the aquatic resources that would be impacted by the proposed project are regulated by the Corps of Engineers under Section 404 of the Clean Water Act. Our jurisdictional review and final jurisdictional determination could result in modifications to the scope of the project's regulated waterbody/wetland impacts and compensatory mitigation requirements identified above. An approved jurisdictional determination will be made prior to reaching a permit decision, and will be posted on the St. Paul District web page at <http://www.mvp.usace.army.mil/>.

Project Description and Purpose:

The applicant proposes to discharge fill material at 26 sites, for a total of approximately 4.21 acres (0.93 temporary and 3.28 permanent) of impact to wetlands adjacent to the four tributaries (County Ditch 3, 4, 11, 39 and Swan Lake Outlet) of the Minnesota River for the proposed reconstruction of a 5.5-mile long segment of Trunk Highway 14 from just west of North Mankato to just west of Nicollet, Minnesota. The proposed work involves the construction of lanes to make US TH (Trunk Highway) 14 a four-lane divided roadway with accompanying infrastructure. Two lanes will be built adjacent to the current highway from Nicollet CSAH 6 to the northwest up to point just west of

where 443rd Avenue would cross, then it curves to the south a bit so construction of four-new lanes can be done approximately ½ to 1 mile south of downtown Nicollet, the road then ties into existing US TH 14 to the west of the city of Nicollet. This work will change how cross-roads are accessed, it will impact fully 9 wetlands and have temporary impacts to 3 additional wetlands and TH 111 will be extended to the south of Nicollet. The project location and location of the wetland impact areas are shown on the attached drawings labeled MVP-2014-00931-ERH, Figure 1 of 13 through Figure 13 of 13.

Name, Area and Types of Waters (Including Wetlands) Subject to loss:

The proposed project would impact approximately 1.06 acres of seasonally flooded basins, 0.89 acres of shallow marsh wetlands, and 1.33 acres of wet meadow wetlands. The project would result in a loss of approximately 3.28 acres of wetlands that are part of the tributary system of County Ditch 3, 4, 11, 39 and Swan Lake Outlet which flow into the Minnesota River, a navigable water of the United States.

Alternatives Considered:

The “No Build” Alternative for this project was dismissed because the current road does not meet state aid specifications due to steep slopes and tight curves. One no-build alternative would be to reclaim the roadway surface and do minor widening to increase shoulder width. However, this alternative was dismissed because it would not adequately resolve most safety issues that deal with passing or differential driving speeds.

Another alternative was to go with the current alignment of TH 14, which would miss several wetlands, but would impact significant portions of the Swan Lake Wildlife Management Area, and other wetlands that either feed into or are fed by Swan Lake. However, the degree of impact to these larger bodies of water was more direct and more difficult to minimize than going through the farmed wetlands as we have done in this project.

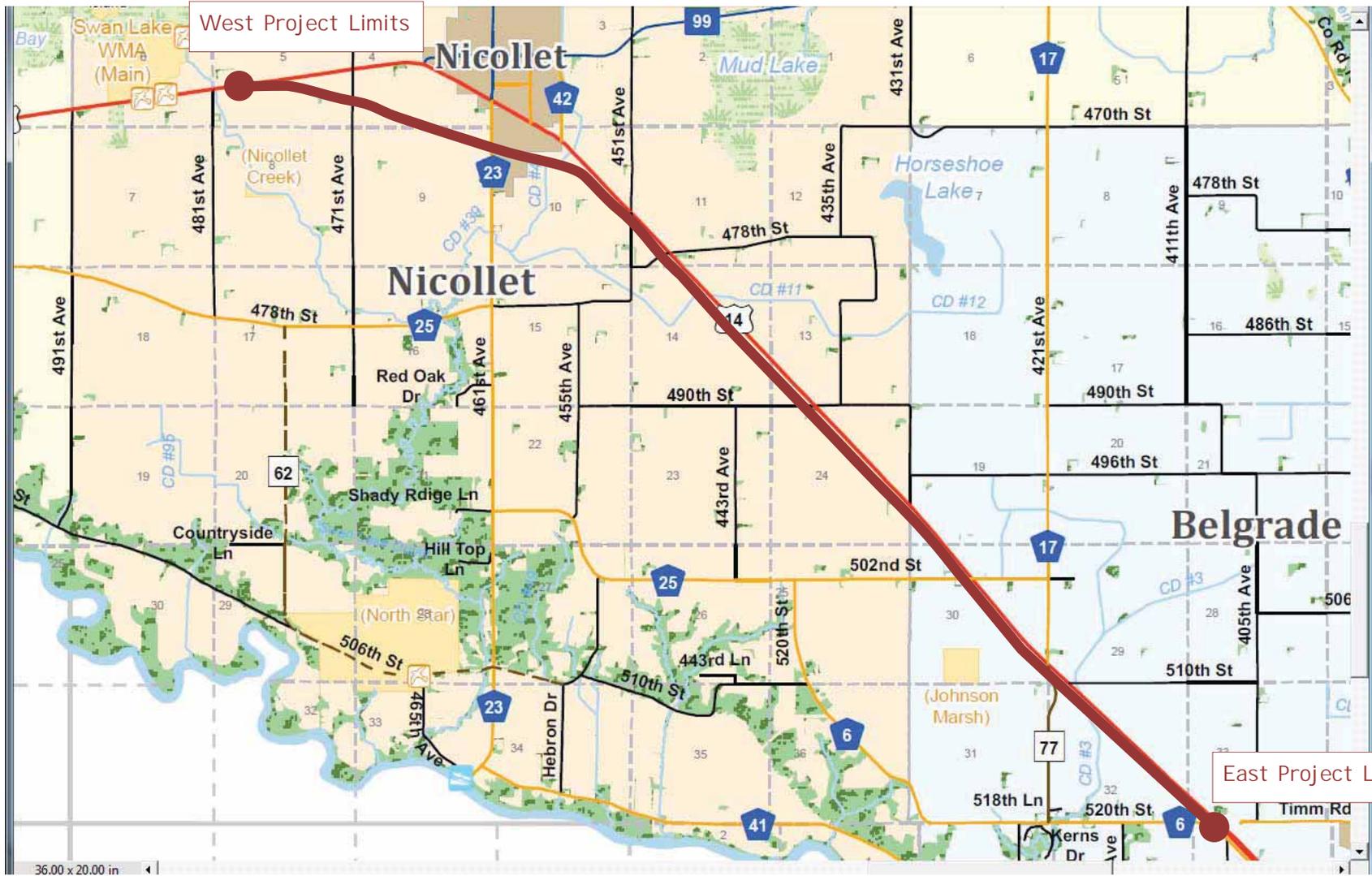
Other alternatives included running solely alongside existing alignment, going further south of the current alignment, or closer to town. These alternatives had either greater wetland impacts, greater farmland triangulations, or other issues related to cost and/or practicability and were therefore dismissed for further consideration. The other considered alternatives also were unable to fully realize meeting the purpose and need for the project as wetland avoidance, water springs avoidance, and roadway geometrics could not be resolved satisfactorily for other natural resource groups. See TH 14 EIS for more detailed information at the following link:

<http://www.dot.state.mn.us/d7/projects/14newulmtonmankato/documents.html>

Compensatory Mitigation:

Compensatory mitigation requirements will be met by wetland banking through the Board of Water and Soil Resources (BWSR) Local Road Replacement Program.

Drawings: MVP-2014-00931-ERH, Figure 1 of 13 through Figure 13 of 13.



Wetland Label from MFRA	Roadway Stationing	Offset	Current Land Use	Basin Size sq ft	Basin Size acres	Amount in Right-of-way acres	Temporary Impacts		Permanent Impacts		Permanent Impacts by Type (acre)							Circular 39	Cowardin Type	Wetland community	Plant community (species)	Notes	
							Impact Sq Ft	Impact Ac	Impact Sq Ft	Impact Ac	1	2	3	4	5	6	7						Channel
1	TH 14 EB 31+45 TO 32+59	17'LT -56' RT	agriculture / farmed	4758	0.11	0.11			4758	0.11	0.11								Type 1	PEMA	Seasonally Flooded Basin	<i>Glycine max, Setaria pumila, Amaranthus blitum</i>	
2	TH 14 EB 43+67 TO 44+22	248LT-168'LT	agriculture / farmed	2648	0.06	0.06			2648	0.06	0.06								Type 1	PEMA	Seasonally Flooded Basin	no natural vegetation - area planted to corn during 2013 growing season	impact due to in place TH 14 obliterations
3	TH 14 WB 102+06 to 103+47	600' LT-818' LT	traditional wetland	15680	0.36	0.00			0	0.00									Type 2	PEMB	Wet Meadow	<i>Phalaris arundinacea, Spartina pectinata, Poa pratensis, Glyceria grandis, Carex sp.</i>	no impact
4	TH 14 WB 105+05 TO 107+15	485'LT -868'LT	traditional wetland	26584	0.61	0.00			0	0.00									Type 2	PEMB	Wet Meadow	<i>Phalaris arundinacea, Carex stricta, Glyceria grandis, Poa pratensis, Persicaria amphibia</i>	no impact
6	TH 14 EB 230+72 TO 231+07	56'RT-114'RT	agriculture / farmed	1521	0.03	0.01			0	0.00									Type 1	PEMA	Seasonally Flooded Basin	<i>Echinochloa crus-galli</i>	no impact
7	TH 14 WB 349+71 TO 354+91	381'LT-33' RT -	traditional wetland	127887	2.94	2.63	27058	0.62	36799	0.85									Type 2/3	PEMB/PEM C	Wet Meadow / Shallow Marsh	<i>Typha sp., Phalaris arundinacea, Populus deltoides, Salix nigra, Solidago gigantea, Asclepias incarnata, Equisetum hyemale</i>	
8	TH14WB 347+79 TO 353+05	421'LT-33'RT	traditional wetland	176073	4.04	0.37	7454.00	0.17	57738	1.33		1.33							Type 2	PEMB	Wet Meadow	<i>Phalaris arundinacea, Persicaria amphibia, Hordeum jubatum, Amaranthus blitum</i>	
9	TH 14 EB 348+10 TO 348+64	69'RT-124'RT	agriculture / farmed	2178	0.05	0.003			0	0.00									Type 1	PEMA	Seasonally Flooded Basin	<i>Echinochloa crus-galli, Amaranthus blitum</i>	no impact
10	TH 14 EB 349+11 TO 349+75	96'RT-135'RT	agriculture / farmed	1787	0.04				0	0.00									Type 1	PEMA	Seasonally Flooded Basin	<i>Echinochloa crus-galli, Amaranthus blitum, Xanthium strumarium, Physalis angulata</i>	no impact
11	TH 14 EB 258+58 TO 259+61	24'LT-31'RT	agriculture / farmed	4400	0.10	0.10			4400	0.10	0.10								Type 1	PEMA	Seasonally Flooded Basin	<i>Echinochloa crus-galli, Amaranthus blitum, Solanum dulcamara, Zea mays</i>	

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							Impact Sq Ft	Impact Ac	Impact Sq Ft	Impact Ac	1	2	3	4	5	6	7						Channel
12	TH 14 WB 244+72 TO 245+41	15'LT-24'RT	agriculture / farmed	1662	0.04	0.04			1662	0.04	0.04								Type 1	PEMA	Seasonally Flooded Basin	<i>Amaranthus blitum</i> , <i>Zea mays</i> , <i>Setaria pumila</i> , <i>Panicum dichotomiflorum</i>	
13	TH 14 WB STA 242+81 TO 243+53	66'LT-43'RT	drainage swale	1862	0.04	0.04			1862	0.04		0.04							Type 3	PEMC	Shallow Marsh	<i>Typha sp.</i> , <i>Phalaris arundinacea</i> , <i>Helianthus giganteus</i> , <i>Sonchus arvensis</i>	
14	TH 14 WB 186+48 TO 188+27	42'LT-15'RT	agriculture / farmed	7645	0.18	0.18			7645	0.18	0.18								Type 1	PEMA	Seasonally Flooded Basin	<i>Echinochloa crus-galli</i> , <i>Amaranthus blitum</i> , <i>Xanthium strumarium</i> , <i>Panicum dichotomiflorum</i> , <i>Taraxacum officinale</i>	
15	TH 14WB 501+04 TO 501+85	149'LT-216'LT	agriculture / farmed	3546	0.08	0.01			0	0.00									Type 1	PEMA	Seasonally Flooded Basin	no natural vegetation - area planted to corn during 2013 growing season	no impact
16	TH 14 WB 475+62 TO 477+19	113' LT-32'RT	agriculture / farmed	14167	0.33	0.32		1272	0.03	9557	0.22	0.22							Type 1	PEMA	Seasonally Flooded Basin	no natural vegetation - area planted to soybean during 2013 growing season	
17	TH 14 WB 474+12 TO 477+51	667'LT-310'LT	agriculture / farmed	92739	2.13				0	0.00									Type 1	PEMA	Seasonally Flooded Basin	no natural vegetation - area planted to soybean during 2013 growing season	no impact
18	TH 14 WB 317+04 TO 320+62	458'LT-106'LT	agriculture / farmed	95174	2.18			4969	0.11	0	0.00								Type 1	PEMA	Seasonally Flooded Basin	no natural vegetation - area planted to soybean during 2013 growing season	
19	TH 14 EB 335+46 TO 336+13	295' RT-366'RT	agriculture / farmed	3428	0.08				0	0.00									Type 1	PEMA	Seasonally Flooded Basin	no natural vegetation - area planted to soybean during 2013 growing season	no impact
20	TH 14 EB 212+21 TO 216+06	79'RT-379'RT	agriculture / farmed	93382	2.14				0	0.00									Type 1	PEMA	Seasonally Flooded Basin	no natural vegetation - area planted to corn during 2013 growing season	no impact

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							Impact Sq Ft	Impact Ac	Impact Sq Ft	Impact Ac	1	2	3	4	5	6	7						Channel
21	TH 14 WB 70+37 TO 74+41	881'LT-410'LT	agriculture / farmed	140072	3.22				0	0.00									Type 1	PEMA	Seasonally Flooded Basin	no natural vegetation - area planted to corn during 2013 growing season	no impact
22	TH 14 EB 105+24 TO 112+74	546'RT-1071'RT	pasture	220699	5.06				0	0.00									Type 2/3	PEMB/PEM C	Wet Meadow / Shallow Marsh	<i>Phalaris arundinacea</i> , <i>Persicaria amphibia</i> , <i>Lycopus americanus</i> , <i>Bidens frondosa</i> , <i>Eleocharis sp.</i>	no impact
23	TH 14 EB 478+04 TO 480+13	111'RT-163'RT	agriculture / farmed	6553	0.15				0	0.00									Type 1	PEMA	Seasonally Flooded Basin	no natural vegetation - area planted to corn during 2013 growing season	no impact
24	TH14 WB 390+71 TO 395+07	852' LT-394'LT	agriculture / farmed	123606	2.84				0	0.00									Type 1	PEMA	Seasonally Flooded Basin	no natural vegetation - area planted to soybean during 2013 growing season	no impact
25	TH 14 WB 40+09 TO 41+54	75'LT-92'RT	agriculture / farmed	15123	0.35	0.35			15123	0.35	0.35								Type 1	PEMA	Seasonally Flooded Basin	no natural vegetation - area planted to corn during 2013 growing season	
26	TH 14 EB 95+31 TO 100+27	125'RT-800'RT		137144	3.15				0	0.00													no impact; see addendum No. 2 for wetland information
									142192	3.28	1.06	1.33	0.89	0.00	0.00	0.00	0.00	0.00					



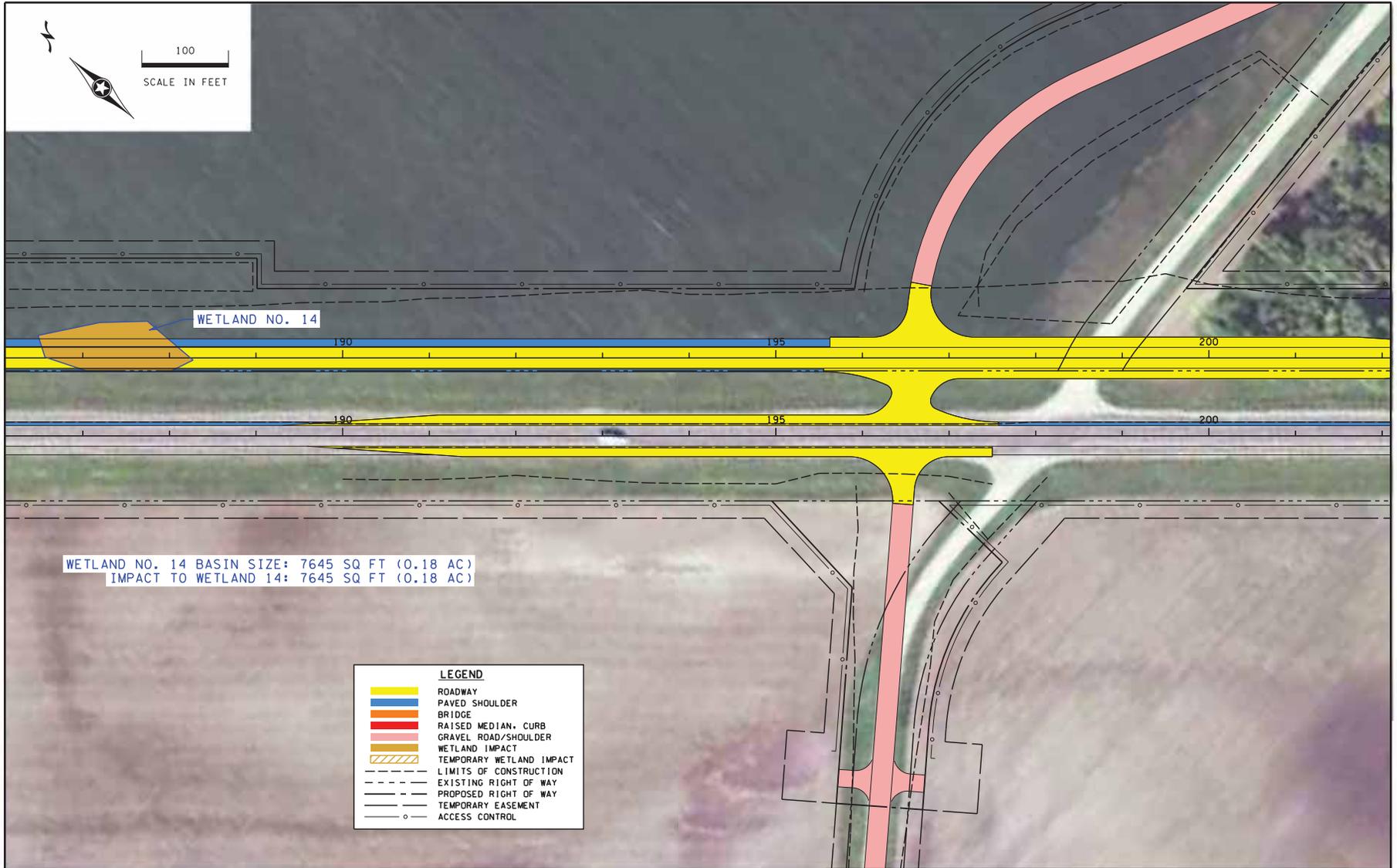
WETLAND IMPACT EXHIBITS
GENERAL LAYOUT

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DRAWN BY: DESIGNED BY: CHECKED BY:	I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.	CERTIFIED BY: LICENSED PROFESSIONAL ENGINEER NAME: _____	6/13/2014 DATE
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TH 14 EXPANSION - NICOLLET TO NORTH MANKATO STATE PROJ. NO. 5203-104 (T.H. 14)	SHEET NO. 1 OF 9 SHEETS
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WETLAND NO. 14 BASIN SIZE: 7645 SQ FT (0.18 AC)
 IMPACT TO WETLAND 14: 7645 SQ FT (0.18 AC)

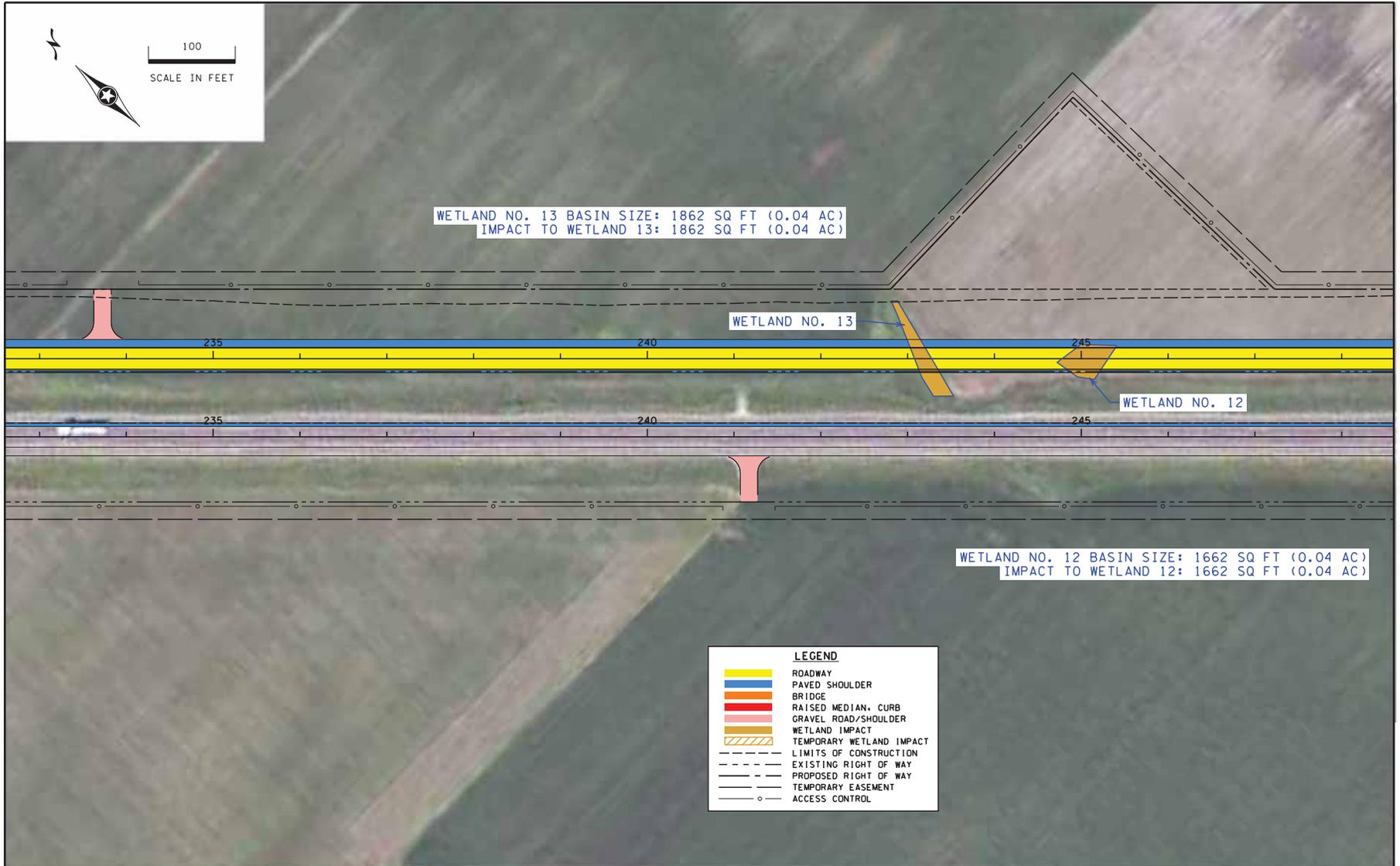
LEGEND	
	ROADWAY
	PAVED SHOULDER
	BRIDGE
	RAISED MEDIAN, CURB
	GRAVEL ROAD/SHOULDER
	WETLAND IMPACT
	TEMPORARY WETLAND IMPACT
	LIMITS OF CONSTRUCTION
	EXISTING RIGHT OF WAY
	PROPOSED RIGHT OF WAY
	TEMPORARY EASEMENT
	ACCESS CONTROL

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TH 14 EXPANSION - NICOLLET TO NORTH MANKATO	
STATE PROJ. NO. 5203-104 (T.H. 14)	SHEET NO. 4 OF 9 SHEETS



WETLAND NO. 13 BASIN SIZE: 1862 SQ FT (0.04 AC)
 IMPACT TO WETLAND 13: 1862 SQ FT (0.04 AC)

WETLAND NO. 13

WETLAND NO. 12

WETLAND NO. 12 BASIN SIZE: 1662 SQ FT (0.04 AC)
 IMPACT TO WETLAND 12: 1662 SQ FT (0.04 AC)

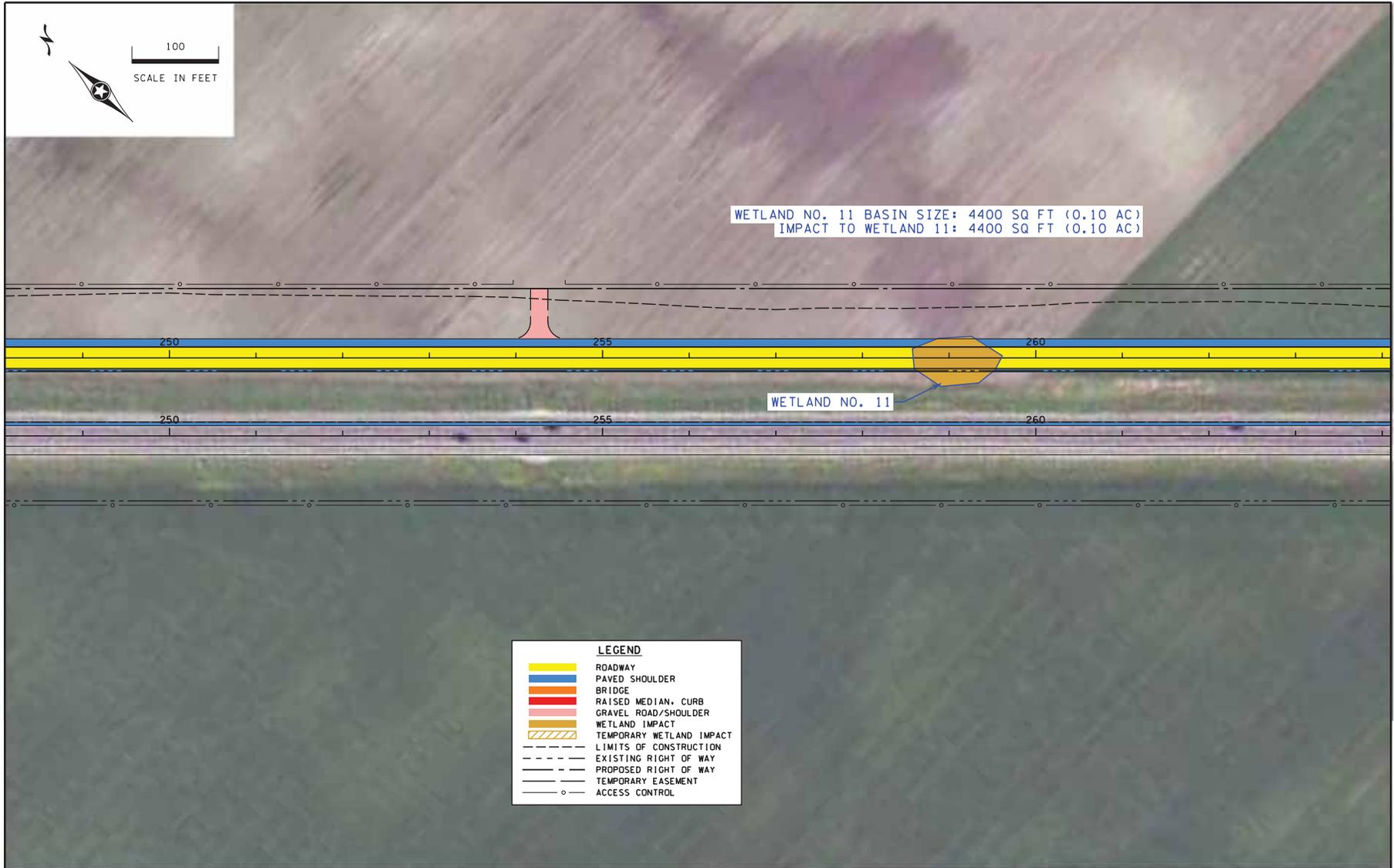
LEGEND

- ROADWAY
- PAVED SHOULDER
- BRIDGE
- RAISED MEDIAN, CURB
- GRAVEL ROAD/SHOULDER
- WETLAND IMPACT
- TEMPORARY WETLAND IMPACT
- LIMITS OF CONSTRUCTION
- EXISTING RIGHT OF WAY
- PROPOSED RIGHT OF WAY
- TEMPORARY EASEMENT
- ACCESS CONTROL

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DESIGNED BY:			
CHECKED BY:			





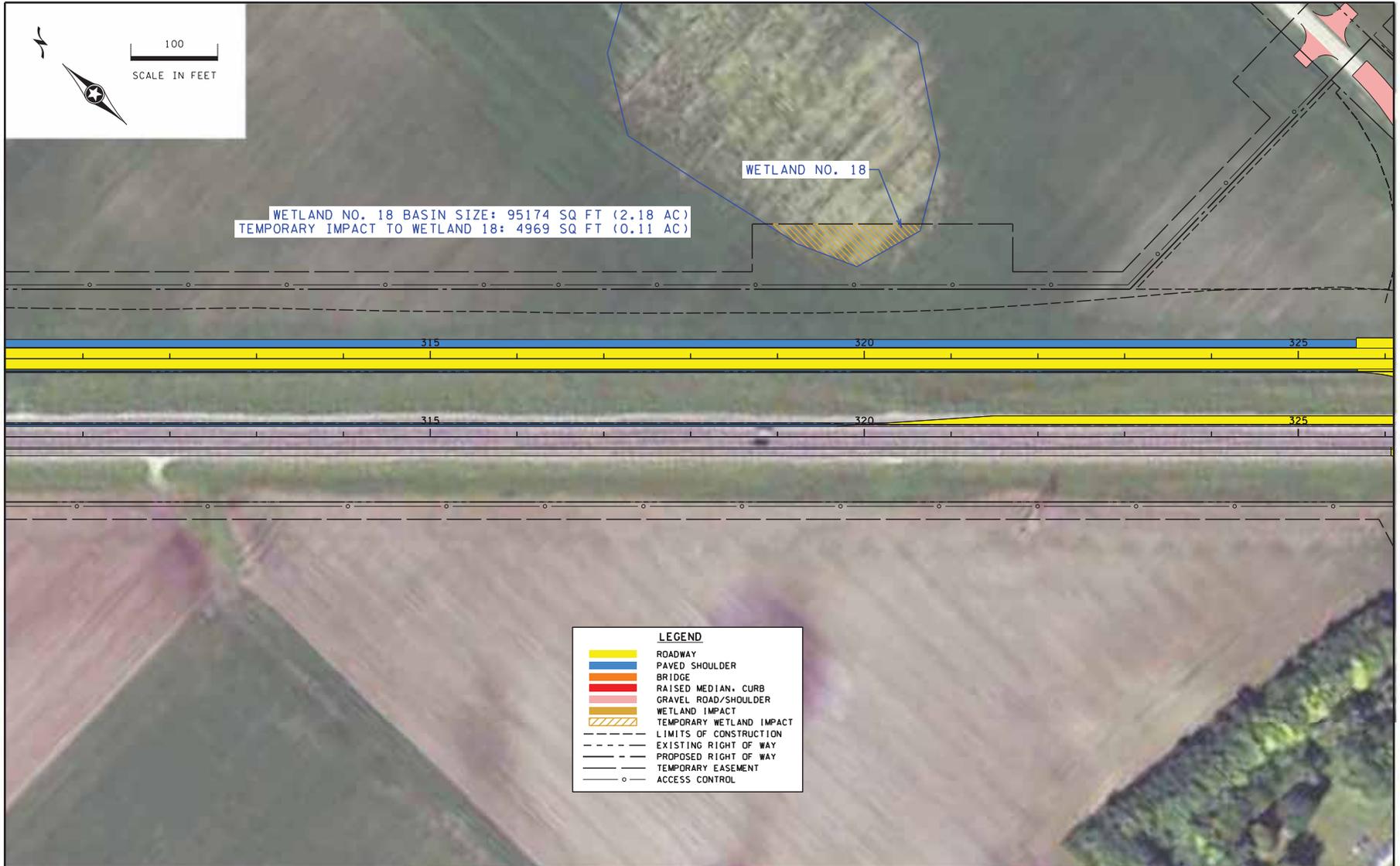
WETLAND NO. 11 BASIN SIZE: 4400 SQ FT (0.10 AC)
 IMPACT TO WETLAND 11: 4400 SQ FT (0.10 AC)

WETLAND NO. 11

LEGEND	
	ROADWAY
	PAVED SHOULDER
	BRIDGE
	RAISED MEDIAN, CURB
	GRAVEL ROAD/SHOULDER
	WETLAND IMPACT
	TEMPORARY WETLAND IMPACT
	LIMITS OF CONSTRUCTION
	EXISTING RIGHT OF WAY
	PROPOSED RIGHT OF WAY
	TEMPORARY EASEMENT
	ACCESS CONTROL

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WETLAND NO. 18 BASIN SIZE: 95174 SQ FT (2.18 AC)
 TEMPORARY IMPACT TO WETLAND 18: 4969 SQ FT (0.11 AC)

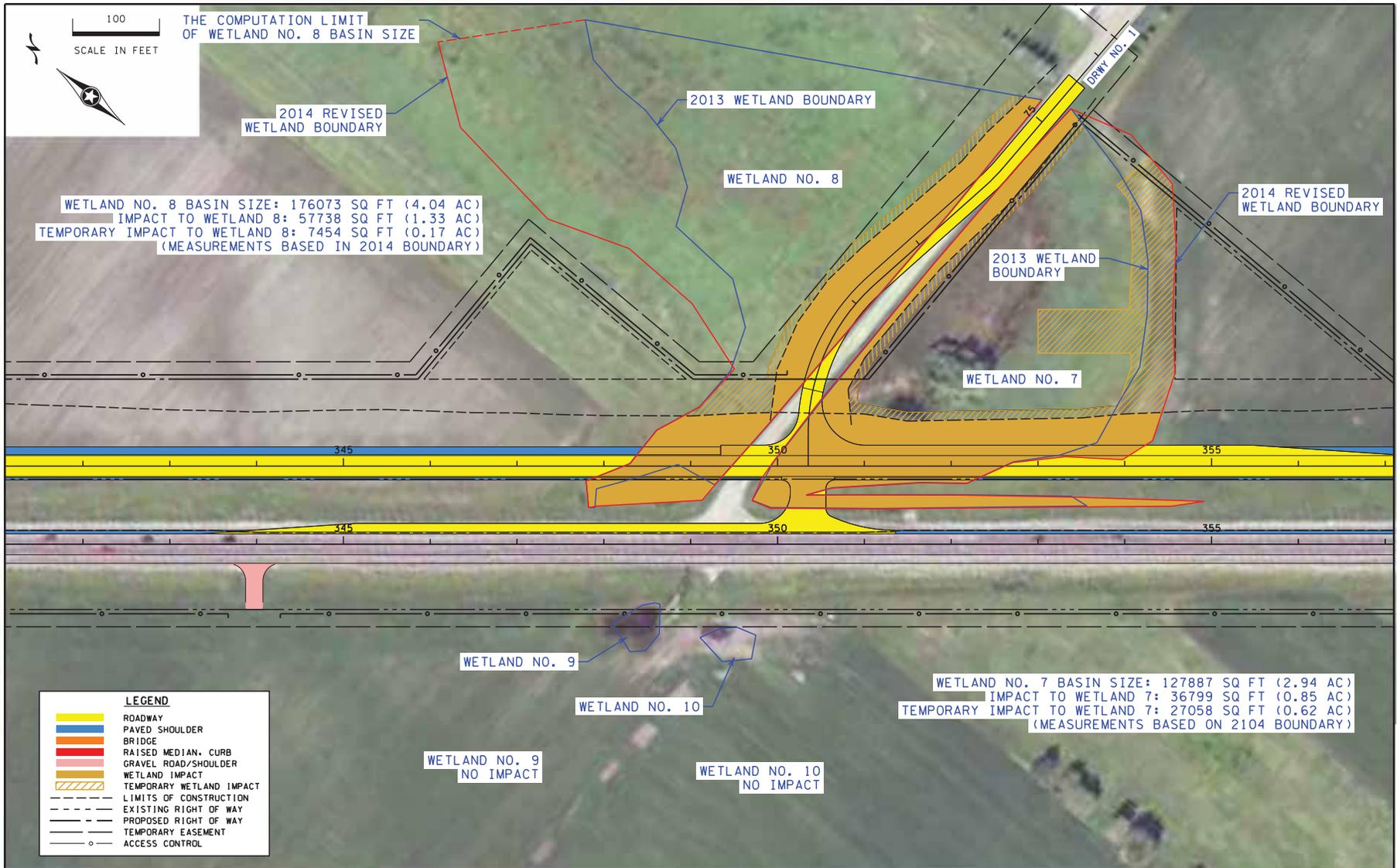
LEGEND

- ROADWAY
- PAVED SHOULDER
- BRIDGE
- RAISED MEDIAN, CURB
- GRAVEL ROAD/SHOULDER
- WETLAND IMPACT
- TEMPORARY WETLAND IMPACT
- LIMITS OF CONSTRUCTION
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- ACCESS CONTROL

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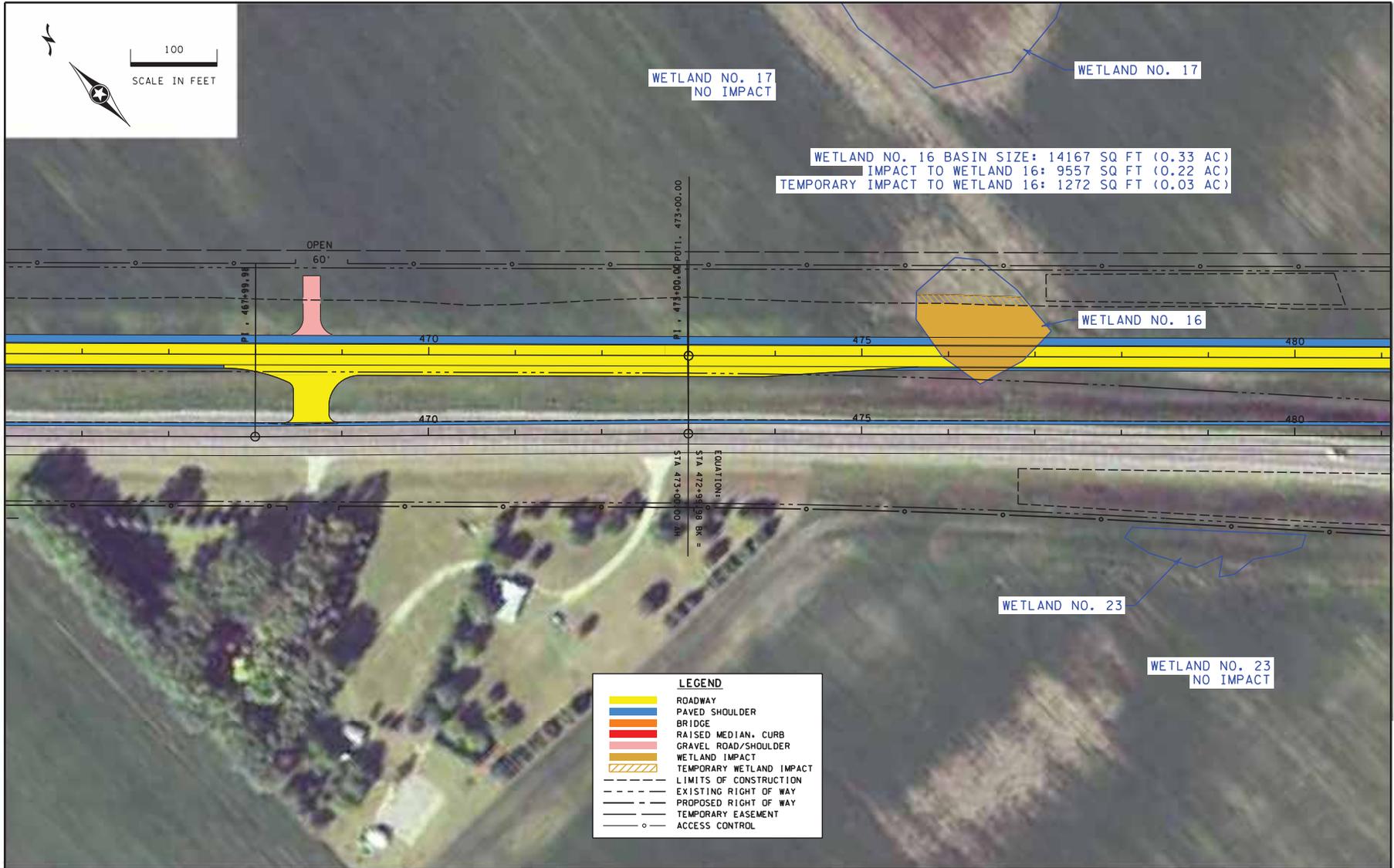




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DESIGNED BY:		LICENSED PROFESSIONAL ENGINEER	DATE
CHECKED BY:			





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