

APPENDIX B – DATA INVENTORY

The study area for the US 41/WIS 441 Operational Needs Assessment extends approximately 25 miles along US Highway 41 (US 41) from the south study limit, Breezewood Lane, to the north study limit, CTH U (County Line Road). It also includes approximately 12 miles along Wisconsin State Highway 441 (WIS 441) from the interchange of US 10 and County Trunk Highway CB (CTH CB) to the northern interchange of US 41 and WIS 441. Within both corridors there are a combined total of 24 interchanges. **Tables 1 and 2** present an inventory of the interchanges and adjacent intersections.

US 41 is classified as a principal arterial route and supports much of the traffic traveling through the Fox Cities area. US 41 officially became a freeway in 1969.¹ WIS 441 forms a beltway around the greater Appleton area and is classified as a freeway along the entire route. Planning for WIS 441 began in 1964; however, construction was not officially completed until September of 1993.²

Physical Data

Structure Data

WisDOT's Highway Structure Information System (HSI) supplied the structure information for this report through WisDOT's Extranet. The HSI system was able to supply inventory and inspection information for all structures along the WIS 441 corridor including a pedestrian bridge and a box culvert. The report team did not evaluate structures along the US 41 corridor because they had been previously evaluated under the US 41 Interstate Conversion Study. **Table 3** presents an inventory of the structures on WIS 441.

Geometrics and Cross-Section Information

WisDOT's North East Region supplied as-built and maintenance plan information as Adobe Portable Document Format (PDF) files for all past projects within the study area. **Table 4** summarizes the plans received from WisDOT. The as-built plans cover projects built between 1969 and 2006 including some preliminary proposed plans from as far back as 1959. **Table 4** also provides the core information including: Project ID, project location, a brief description of the work performed, and the year of construction completion. The study team used the as-built plans to obtain horizontal, vertical, and cross section information to conduct geometric deficiency analysis.

Pavement

The WisDOT Pavements Sections of Technical Services provided pavement information for the US 41/WIS 441 Operational Needs Assessment including: spreadsheets containing information related to pavement conditions; and a digital copy of the Pavement Distress Index (PDI) so that the report team could interpret the Pavement Information File database. WisDOT collected the Pavement Information File data in November, 2007.

¹ http://www.wisconsinhighways.org/indepth/US-41_history.html

² <http://www.wisconsinhighways.org/listings/WiscHwys400-894.html#STH-441>

Drainage

The report team gathered drainage infrastructure analysis through information gained through correspondence with WisDOT NE Region personnel, correspondence with the county highway departments along the corridor, and through those agencies' field inspections.

WisDOT NE District personnel and Winnebago County Highway Department staff agreed that both the surface drainage and underground pipes were in GOOD condition for the segment of WIS 441 in Winnebago County from CTH CB to Oneida Street. There are no known drainage issues along this section of roadway.

WisDOT staff coordinated with Calumet and Outagamie County Highway Departments to discuss any known drainage issues on the stretch of WIS 441 between Oneida Street to the North US 41 Interchange. As a result of these discussions and on field visual inspections, the agencies determined that all drainage pipes, inlets, and culverts were in GOOD condition. WisDOT staff stated specifically that, "All pipes are concrete and still in great condition". WisDOT was concerned about several ditch profiles that were nearly flat where they observed standing water and heavily vegetated areas with cattails and other wetland plants. WisDOT considers those areas to be in FAIR condition, but thought that they could be easily maintained by their respective county highway department maintenance crews.

Traffic Data

Traffic information was collected during the winter of 2007-2008 during the AM and PM peak hour times between 7:00 AM to 9:00 AM and 4:00 PM to 6:00PM Tuesday, Wednesday, and Thursday. They then formatted the data in 15 minute increments using PETRA data analysis software and prepared a diagram of each intersection. The report team also used data from other recent projects completed in the immediate study area and WisDOT-supplied traffic maps. The combined use of field-collected traffic information with data pulled from other projects gave adequate coverage to accurately reflect traffic in the study area.

WisDOT, the City of Appleton, the City of Menasha, the City of Neenah, and the Village of Little Chute provided signal layouts and timing data.

Safety Data

WisDOT catalogs all crashes on Interstate, US, and State highways in a database that they updated several times annually. WisDOT, the University of Wisconsin-Madison Traffic Operations and Safety (TOPS) Laboratory, and the City of Appleton provided crash data for the WIS 441 segments of the study. Strand Associates, Inc. provided crash data along the US 41 corridor that was collected as part of their work on the US 41 Interstate Conversion Project. The study team removed all deer-related crashes from the supplied data prior to analysis and then entered the remaining information into a Geographic Information System (GIS) database for graphical representation. From the baseline information, the study team calculated the crash and crash severity rates.

Environmental Data

The study team gathered the physical and socioeconomic characteristics of the study area in order to identify potential environmental constraints. The primary sources of information were online data collections maintained by various Federal, State, and local agencies. Data types included: wetland inventories, flood plains, low-income and minority populations, parks, and other pertinent resources. See **Appendix A** for a chart outlining the various environmental factors used by WisDOT to review highway projects. The report team rated each factor for its potential to become an issue in future National Environmental Policy Act (NEPA) analyses and entered this information into a GIS database for future use. Future study teams should be encouraged to use this data when analyzing alternatives in order to avoid or minimize environmental impacts.

Table 1: US 41 Interchange and Adjacent Intersections Inventory

Interchange		Adjacent Intersections
1	Breezewood Ln.	Breezewood Ln. & Bergstrom Rd/ Gillingham Rd.
		Breezewood Ln. & US 41 SB Ramp Terminal
		Breezewood Ln. & US 41 NB Ramp Terminal
		Breezewood Ln. & Harrison St.
2	WIS 14/CTH JJ (Winneconne Ave.)	Winneconne Ave. & Tullar Rd.
		Winneconne Ave. & Meadow Ln.
		Winneconne Ave. & US 41 SB Ramp Terminal
		Winneconne Ave. & US 41 NB Ramp Terminal
		Winneconne Ave. & Green Bay Rd.
3	Main St./Oakridge Rd.	Main St. & US 41 SB Off Ramp
		Main St. & US 41 NB Off Ramp
		Main St. & Green Bay Rd.
4	CTH II (Winchester Rd.)	Winchester Rd. & Zeh Ave.
		Winchester Rd. & US 41 SB Ramp Terminal
		Winchester Rd. & US 41 NB Ramp Terminal
		Winchester Rd. & Green Bay Rd.
5	US 10/US 41/WIS 441	N/A System Interchange
6	CTH BB (Prospect Ave.)	Prospect Ave. & Nicolet Rd./American Dr.
		Prospect Ave. & US 41 SB Ramp Terminal
		Prospect Ave. & US 41 NB On Ramp
		Prospect Ave. & US 41 NB Off Ramp
		Prospect Ave. & Northern Rd.
7	WIS 125/CTH CA (College Ave.)	College Ave. & Nicolet Rd./North Mall Dr.
		College Ave. & US 41 SB Ramp Terminal
		College Ave. & US 41 NB Ramp Terminal
		College Ave. & Westhill Blvd./Kools St.
8	WIS 96 (Wisconsin Ave.)	Wisconsin Ave. & Greenville Dr.
		Wisconsin Ave. & US 41 SB Ramp Terminal
		Wisconsin Ave. & US 41 NB Ramp Terminal
		Wisconsin Ave. & Westhill Blvd.
9	WIS 15/CTH OO (Northland Ave.)	Northland Ave. & Casaloma Dr.
		Northland Ave. & US 41 SB Ramp Terminal
		Northland Ave. & US 41 NB Ramp Terminal
		Northland Ave. & Bluemound Dr.

Interchange		Adjacent Intersections
10	WIS 47 (Richmond St.)	Richmond St. & Evergreen Dr.
		Richmond St. & US 41 SB Ramp Terminal
		Richmond St. & US 41 NB Ramp Terminal
		Richmond St. & Association Dr.
		Richmond St. & Seneca Dr.
		Richmond St. & Capitol Dr.
11	CTH E (Ballard Rd.)	Ballard Rd. & Evergreen Dr.
		Ballard Rd. & US 41 SB Ramp Terminal
		Ballard Rd. & US 41 NB Ramp Terminal
		Ballard Rd. & Capitol Dr.
12	US 41/WIS 441	N/A System Interchange
13	CTH N (Freedom Rd.)	Freedom Rd. & Evergreen Dr.
		Freedom Rd. & US 41 SB Ramp Terminal
		Freedom Rd. & US 41 NB Ramp Terminal
		Freedom Rd. & Moasis Dr.
14	WIS 55 (Delanglade St.)	Delanglade St. & US 41 SB Ramp Terminal
		Delanglade St. & US 41 NB Ramp Terminal
		Delanglade St. & Gertrude St.
15	CTH J (Lawe St.)	CTH J & W Frontage Rd.
		CTH J & US 41 SB Ramp Terminal
		CTH J & US 41 NB Ramp Terminal
		CTH J & E Frontage Rd./Hyland Ave.
16	CTH U (County Line Rd.)	County Line Rd. & W Frontage Rd./Mid Valley Dr.
		County Line Rd. & US 41 SB Ramp Terminal
		County Line Rd. & US 41 NB Ramp Terminal
		County Line Rd. & E Frontage Rd.

Table 2: WIS 441 Interchange and Adjacent Intersections Inventory

Interchange		Adjacent Intersections
17	CTH CB	CTH CB & US 10 SB Ramp Terminal
		CTH CB & US 10 NB Ramp Terminal
18	CTH P (Racine St.)	Racine St. & 9th St.
		Racine St. & WIS 441 NB and SB Off Ramps
		Racine St. & WIS 441 NB and SB On Ramps
		Racine St. & 12th St.
19	CTH AP (Midway Rd.)	Midway Rd. & Racine St.
		Midway Rd. & WIS 441 SB Ramp Terminal
		Midway Rd. & WIS 441 NB Ramp Terminal
		Midway Rd. & Earl St.
20	WIS 47 (Appleton Rd.)	Appleton Rd. & Valley Rd.
		Appleton Rd. & WIS 441 SB Ramp Terminal
		Appleton Rd. & WIS 441 NB Ramp Terminal
		Appleton Rd. & Drum Corps Dr.
21	Oneida St.	Oneida St. & Valley Rd./Roeland Ave.
		Oneida St. & WIS 441 SB Ramp Terminal
		Oneida St. & WIS 441 NB Ramp Terminal
		Oneida St. & Meadow Grove Blvd.
22	CTH KK (Calumet St.)	Calumet St. & Kensington Dr.
		Calumet St. & WIS 441 SB Ramp Terminal
		Calumet St. & WIS 441 NB Ramp Terminal
		Calumet St. & Stonybrook Rd.
23	CTH CE (College Ave.)	College Ave. & Kensington Dr.
		College Ave. & WIS 441 SB Ramp Terminal
		College Ave. & WIS 441 NB Ramp Terminal
		College Ave. & Eisenhower Dr.
24	CTH OO (Northland Ave.)	Northland Ave. & Conkey St.
		Northland Ave. & WIS 441 SB Ramp Terminal
		Northland Ave. & WIS 441 NB Ramp Terminal
		Northland Ave. & French Rd.

Table 3: WIS 441 Structure Inventory

Structure Number	Bridge Location (STA)	Feature Carried	Feature Under
B-70-079	67+50	US 10 EB	US 41
B-70-078	74+00	US 10 EB	CN Railroad
B-70-078	74+00	US 10 EB	N. Lake St.
B-70-078	74+00 RT	Ramp-NB US 41 to NB WIS 441	CN Railroad
B-70-078	74+00 RT	Ramp-NB US 41 to NB WIS 441	N. Lake St.
B-70-076	74+00 LT	Ramp-SB WIS 441 to NB US 41	CN Railroad
B-70-076	74+00 LT	Ramp-SB WIS 441 to NB US 41	W. Butte Morts Beach Rd.
B-70-061	97+71	WIS 441 NB & SB	Little Lake Butte De Morts
B-70-068	118+50	WIS 441 NB & SB	Tayco St.
B-70-108	128+00	WIS 441 NB	NW Ramp & NW Loop
B-70-109	128+01	WIS 441 SB	NW Ramp & NW Loop
B-70-110	156+50	WIS 441 NB & SB	CTH P (Racine St.)
B-70-111	178+65	WIS 441 NB	CTH AP (Midway Rd.)
B-70-112	178+98	WIS 441 SB	CTH AP (Midway Rd.)
B-70-113	230+96	WIS 441 NB	WIS 47 (Appleton Rd.)
B-70-114	230+94	WIS 441 SB	WIS 47 (Appleton Rd.)
B-70-115	283+25	WIS 441 NB	US 10 (Oneida St.)
B-70-116	283+25	WIS 441 SB	US 10 (Oneida St.)
B-08-033	312+50	Carpenter St. Pedestrian Bridge	WIS 441 NB & SB
B-08-024	348+87	Telulah Ave.	WIS 441 NB & SB
B-08-025	394+21	WIS 441 NB	Lake Park Rd.
B-08-026	394+21	WIS 441 SB	Lake Park Rd.
B-08-027	425+53	WIS 441 NB	CTH KK (Calumet St.)
B-08-028	425+53	WIS 441 SB	CTH KK (Calumet St.)
B-44-137	468+75	WIS 441 NB & SB	Drainage Way
B-44-122	486+50	WIS 441 NB	CTH CE (College Ave.)
B-44-123	486+50	WIS 441 SB	CTH CE (College Ave.)
B-44-124	509+20	Fox River Valley RR	WIS 441 NB & SB
B-44-125	520+47	CTH Z (Kimberly Ave)	WIS 441 NB & SB
B-44-126	552+23	WIS 441 NB & SB	Fox River
B-44-126	552+23	WIS 441 NB & SB	WIS 96 (Wisconsin Ave.)
B-44-126	552+23	WIS 441 NB & SB	C. & NW. Trans. Co. RR
B-44-127	591+60	WIS 441 NB	CTH OO (Northland Ave.)
B-44-128	591+60	WIS 441 SB	CTH OO (Northland Ave.)
B-44-129	630+00	WIS 441 NB	US 41 NB & SB
B-44-130	630+00	WIS 441 SB	US 41 NB & SB

Table 4: As-Built Plans Inventory

Project ID	Project Location	Type of Work Completed	Year
FG 03 - 2(51)	US 41 and County Farm Overpass	Paving details	1959
FG 03 - 2(52)	US 41	Structures C-44-1264, 1257, 1258	1959
F 03 - 2(57)	US 41: CTH N (Freedom Rd.) to CTH J (Lawe St.)	Plan and profile details for proposed new highway	1961
F 03-2(64)	US 41: CTH OO (Northland Ave.) to CTH E (Ballard Rd.)	Plan and profile details for proposed new highway	1961
F 03-2 (66)	US 41: French Rd. and CTH JJ	Mainline paving details	(no date)
F 03-2 (61)	US 41: French Rd. and CTH JJ	Paving details for ramps and overpasses, structure C-44-26	(no date)
F 03-2(68)	US 41: Appleton to East Co. Line Rd.	Plan and profile for proposed new road	1963
T 03-2 (52)	US 41: Appleton to East County Line (Truck Weigh Station)	N/A	1966
F 03-2(76)	US 41: Neenah to North County Line (SOO Line Overhead)	Structure B-70-194	1966
F 03-2(70)	US 41: West Co. Line to DePere (Apple Creek Bridge)	Structure B-5-53	1963
1131-01-71 T 03-2(60) T 03-2(58)	US 41: CTH JJ to CTH G	Typicals for bridge approaches	(no date)
1122-01-71	US 41: WIS 150 to North County Line	Structure B-70-76	1973
1122-01-72	US 41: WIS 150 to North County Line	Structure B-70-79	1973
1122-01-73 F 03-2(103)	US 41: WIS 150 to North County Line	Plan and profile for mainline, C-70-43	1973
1122-01-74 4686-01-75	US 41: Cecil St. to WIS 125/CTH CA (College Ave.)	Little Lake Butte Des Morts Bridge details	1974
1120-02-71	US 41: Breezewood Lane Interchange	Structure B-70-71 details	1974
1122-02-71	US 41: WIS 150 to North County Line	Structure B-70-13 (railroad overpass) details	1975
1120-02-74	US 41: Breezewood Lane Interchange	Concrete triple box culvert, B-70-59	1975
1122-01-75	US 41: Cecil St. to WIS 125/CTH CA (College Ave.)	Cross Sections, Marking, plan and profile, plat	1974
0038-22-51	US 41: Appleton to Kaukauna (Weigh Stations 34, 31, 41)	Traffic Sign Maintenance	1980
1123-04-71 0070-14-11 1123-04-72 0044-14-12	US 41: So. County Line to US 10	Bridge repairs to: B-44-59/60, B-70-19,17,13,22, 30/31	1983
1131-06-71	US 41: West County Line to DePere	B-5-80 (Apple Creek Bridge)	1987

Project ID	Project Location	Type of Work Completed	Year
4685-04-71	WIS 441: Tayco to CTH P (Racine St.)	Paving: plan and profile details	1988
4685-02-71	Tri-County Freeway US 41 Interchange North	Northwest loop and ramp, ROW accusation	1989
4685-04-72	WIS 441: WIS 47 (Appleton Rd) to Oneida St.	Mainline and ramp paving (plan, profile, cross-sections)	1989
4685-02-73	WIS 441: CTH OO (Northland Ave.) to US 41 (north section)	Mainline paving (plan profile, cross-sections), ROW accusation	1990
1132-04-71 4685-02-92	US 41: Capitol Drive to CTH N (Freedom Rd.) WIS 441: US 41 interchange	Under drain relocation	1990
4685-07-73	WIS 441: Wis Central Ltd. RR to WIS 47/CTH AP	Mainline & interchange paving plan	1989
4685-04-74	WIS 441: CTH P (Racine St.) to Wis Central Ltd. RR	Mainline & interchange paving plan, ROW accusation	1990
4685-04-75	WIS 441: Tayco St. to Oneida St.	Mainline paving & structure as-builts (B-70-111,112,113, & 114)	1990
4685-04-80	WIS 441: Tayco St. to Oneida St.	Structure as-built - B-70-110	1990
4685-04-78	WIS 441: Tayco St. to Oneida St.	Mainline & interchange paving	1990
4685-04-76	WIS 441: Tayco St. to Oneida St.	Structure as-builts B-70-68, 108,& 109	1990
4685-02-74	WIS 441: WIS 96 (Wisconsin Ave.) to CTH OO (Northland Ave.)	Mainline paving plan	1991
4685-03-80	WIS 441: Lake Park Rd. to CTH KK (Calumet St.)	Mainline paving & ROW details	1991
1132-04-72	US 41: US 10 to East Co. Line Rd. & CTH N (Freedom Rd.) to East Co. Line Rd.	Pipe under drain	1991
4685-02-72	WIS 441: CTH OO (Northland Rd.) to US 41 (south section)	Mainline and ramp overpasses, ROW details	1991
4685-04-82	WIS 441: US 41 to Menasha	Structure B-70-61 (Little Lake Butte Des Morts Bridge) & traffic control details	1991
4685-03-71	WIS 441: Oneida St. to CTH KK (Calumet St.)	Paving - mainline, ramps, and overpasses	1992

Project ID	Project Location	Type of Work Completed	Year
4685-03-77	WIS 441: Oneida St. to CTH KK (Calumet St.)	Telulah Ave. paving plan	1992
4685-03-81	Carpenter St. Pedestrian Overpass	Structure as-built: B-8-33	1992
4685-02-87	WIS 441: CTH KK (Calumet St.) to US 41	Structure as-built: B-44-132	1992
4685-02-86 4685-02-93	WIS 441: CTH CE (Appleton to Eisenhower & Eisenhower to Railroad)	CTH CE paving plan	1992
1123-05-72	US 41: WIS 114/CTH JJ (Winneconne Ave.) to WIS 15/CTH OO (Northland Ave.)	Structures B- 44-157,158,161, & 162	1992
4685-02-80	WIS 441: CTH KK (Calumet St.) to Fox River	Paving (mainline, ramps, overpasses), ROW details, structure B 44-197	1992
4685-04-77	WIS 441: Tayco St. to Oneida St.	Mainline paving and ROW details	1992
4685-04-79	WIS 441: Tayco St. to Oneida St.	Mainline, ramps/loops, and overpasses paving plan	1992
4685-03-76	WIS 441: Oneida St. to CTH KK (Calumet St.)	Ramps and overpasses paving details	1993
4685-02-76	WIS 441: Fox River Bridge	Structure as-built: B-44-126	1992
4685-02-85	WIS 441: CTH KK (Calumet St.) to US 41	Mainline, ramps/loops, and overpasses paving plan	1993
4685-02-78	WIS 441: CTH KK (Calumet St.) to US 41	Structure details: B-44-124	1993
4685-02-81	WIS 441: CTH KK (Calumet St.) to US 41	Structure details: B-44-127, B-44-128, B-44-129, B-44-130 & ROW details	1993
1133-06-60	US 41: WIS 15/CTH OO (Northland Ave.) to Kaukauna	Structure B 44-39: deck replacement on CTH CC overpass	1993
1123-05-89	Breezewood Ln. to North County Line	Temporary bridge B-70-13	1993
4685-03-73	WIS 441: Oneida St. to CTH KK (Calumet St.)	Paving and structure details: B-70-115,116 & B-8-25,26,27,28	1993
4685-02-89	WIS 441: CTH KK (Calumet St.) to US 41	Storm water control, paving details, and ROW accusation	1993

Project ID	Project Location	Type of Work Completed	Year
1123-05-77	US 41: Breezewood Lane to North County Line	Paving and ROW details for Green Bay Rd.	1993
1123-05-71 1123-05-83 1123-05-84	US 41: WIS 114/CTH JJ (Winneconne Ave.) to WIS 15/CTH OO (Northland Ave.)	Mainline and ramps paving plan	1993
1123-05-74 1123-05-81 1123-05-82	US 41: WIS 114/CTH JJ (Winneconne Ave.) to WIS 15/CTH OO (Northland Ave.)	Cross Sections, paving, drainage, plan & profile, structure details: B-70-134, B-70-135, B-70-136	1993
1123-05-75 1123-05-85	US 41: Breezewood Lane to Cecil St. US 41: WIS 114/CTH JJ (Winneconne Ave.) SB Structure	Plan & Profile, Paving, Structure B-70-127, B-70-125, B-70-123, B-70-50, B-70-49	1994
1123-05-78 1123-05-86	US 41: Breezewood Lane to North County Line	Plan & profile, paving, structure detail (B-70-12B)	1995
1123-05-88	US 41: WIS 114/CTH JJ (Winneconne Ave.) to WIS 15/CTH OO (Northland Ave.)	Steel fabrication for structures B 70-131 & 132	1994
1123-07-71,72	US 41: CTH E (Ballard Rd.) Interchange	Widening of CTH E overpass, ramp modifications	1995
1517-03-76 1517-03-77 1517-03-78	US 10: Freemont to US 41	Paving and ROW details for US 10 and 41 interchange	1997
1131-08-75	US 41: Kaukauna to DePere (Apple Creek Structures)	Structure details: B-5-305, B-5-306 (frontage road bridges) & channel changes	1999
1131-08-78	US 41: Kaukauna to DePere (mainline from WIS 15/CTH OO (Northland Ave.) to Wrightstown)	Structures B-44-71, B-44-72 @ CTH JJ, temporary bypass, and ROW details	1999
1131-08-74	US 41: Kaukauna to DePere (mainline from CTH S to CTH F)	Structures B-5-165, B-5-200 @ Little Rapids Rd, temporary bypass	1999
1131-08-72	US 41: Kaukauna to DePere (CTH U (County Line Rd.) Interchange & Frontage Roads)	Structures B-44-159, B-44-160, temporary bypass, ramp reconstruction, frontage road details	1999
1146-07-73	WIS 76: Greenville to Appleton	Mainline and ramps paving details	1998
1146-23-90	WIS 15: US 41 to CTH A	Lane addition on WIS 15 (paving plan)	1998
1123-06-71 1123-06-72	US 41: Meade St. Bridge and Approaches	Structure details: B-44-174	1996
1517-05-60	US10/WIS 441 & US 41 interchange	Traffic Control	2000
1517-05-71	US10/WIS 441 & US 41 interchange	Ramp reconstruction & ROW details	2000

Project ID	Project Location	Type of Work Completed	Year
1131-08-83	US 41: CTH OO to Wrightstown (structures)	B-44-71, B-44-72 @ CTH JJ B-44-73, B-44-74 @ Wrightstown Rd	2000
1517-05-72	US10/WIS 441 & US 41 interchange	North Lake St reconstruction, structure B-70-210, and roundabout details	2001
1131-08-82	US 41: CTH OO to CTH S (frontage roads)	Paving and ROW details	2001
1131-08-80	WIS 41: CTH OO to Wrightstown Rd	Mainline paving, temp crossovers, and temp bypasses	2000
4685-07-61	WIS 441: NW ramp at CTH KK	Paving - reconstruction	2001
1131-08-77	US 41: CTH S to CTH F	Frontage roads construction & structure details: C-5-65, C-5-19	2000
1131-08-76 1131-08-84	US 41: CTH S to CTH F	NB mainline resurfacing, box culverts	2000
1131-08-73	US 41: CTH S Interchange	Interchange, overpass, ramps, structure B-5-162	1999
1120-32-71	US 41: SE ramp at WIS 125	Ramp extension and concrete overlay	2001
4685-10-71	WIS 441: SE ramp at CTH CE	Pavement markings	2001
1131-08-79	US 41: CTH OO to CTH F	Frontage road construction, structure B-5-316, and ROW details	2001
1133-05-71 1133-05-72	US 41: CTH N Interchange	Interchange, overpass, ramps, structure B-44-179	2002
1131-08-71, 1131-13-71	US 41: CTH JJ to CTH S	Asphalt overlay	2003
4685-13-61 4686-05-60	US 10: US 10/WIS 441 over US 41 US 10: US 41 to Tayco St.	Structure details: B-70-68,76,78	2005
0044-73-10	US 41: US 10 to East Co. Line	Concrete repair work	1987
0044-83-10	WIS 96: Appleton to Kaukauna US 10: US 41 to Appleton WIS 125: US 41 to Appleton	Concrete repair work	1988
0083-2-60	US 41: CTH OO to CTH J	Signing work	1993
0083-2-66 0083-2-67	US 41: Winn. So. Co. Line to US 41/WIS 441 WIS 441: US 41 to US 41	Signing work	1994

Project ID	Project Location	Type of Work Completed	Year
1132-1-72 0083-22-51	US 41: WIS 125 to East Junction CTH OO US 41: Appleton – Kaukauna weight stations (34, 31, 41)	Signing work	1980
1000-03-43	WIS 441: W. JCT US 41 to E. JCT US 41	Pavement marking	2001
1000-03-55	US 41: Breezewood to CTH J (Lawe St.)	Pavement marking	2002
1130-07-90	US 41 & WIS 57	Pavement marking	1994
1131-01-76	US 41: US 10 to CTH J (Lawe St.)	Beam guard replacement and installation	1984
1132-01-71	US 41: WIS 125/CTH CA (College Ave.) to E. JCT WIS 15/ CTH OO (Northland Ave.)	Beam guard replacement, culvert work, extend existing shoulder near CTH PP	1978
1132-04-71 4685-2-92	US 41: Capitol Dr. to CTH N (Freedom Rd.) WIS 441: US 41 Interchange	Replace existing roadway	1990
4160-02-71	CTH CE: WIS 441 to WIS 55	Full construction plan	1996
4160-02-72	CTH CE: WIS 441 to WIS 55	Steel for bridge reinforcement	1995
4494-02-71	CTH KK: Matthias St. to WIS 441	Concrete paving plan, new construction	1993
4494-04-71	CTH KK: N. Coop Rd to CTH N	Remove and replace existing road	2002
4494-05-71	CTH KK: WIS 441 to N. Coop Rd.	Remove and replace existing road	2000
4500-2-71	CTH P: US 10 to CTH KK	Lake Park Rd. modification	1986
4685-2-71	WIS 441: US 41 Interchange (north)	Fly ash placement, fencing, culvert pipe	1989
4685-2-72	WIS 441: CTH OO (Northland Ave.) to US 41 (south)	Remove and replace concrete pavement	1991
4685-2-73	WIS 441: CTH OO (Northland Ave.) to US 41 (north)	Remove and replace existing	1990
4685-2-74	WIS 441: WIS 96 (Wisconsin Ave.) to CTH OO (Northland Ave.)	Fly ash placement	1991

Project ID	Project Location	Type of Work Completed	Year
4685-2-75	WIS 441: Fox River Bridge	Bridge plans for structure B-44-126	1990
4685-2-76	WIS 441: Fox River Bridge	Bridge plans for structure B-44-126	1992
4685-2-77	WIS 441: Fox River Bridge	Bridge plans for structure B-44-126	1991
4685-2-78	WIS 441: CTH KK (Calumet St.) to US 41	Bridge plans for structure B-44-124	1993
4685-2-80	WIS 441: CTH KK (Calumet St.) to Fox River	Remove and replace existing road, culvert work	1992
4685-2-81	WIS 441: CTH KK (Calumet St.) to US 41	Bridge plans for structure B-44-127	1993
4685-2-84	WIS 441: CTH KK (Calumet St.) to US 41	Sound barrier installation	1993
4685-2-85	WIS 441: CTH KK (Calumet St.) to US 41	Remove and replace existing roadway	1993
4385-2-86 4685-2-93	WIS 441: CTH CE (Appleton to Eisenhower & Eisenhower to RR)	Remove and replace existing roadway	1992
4685-2-87	WIS 441: CTH KK (Calumet St.) to US 41 (French Rd overpass)	Structure plans for B-44-132	1992
4685-2-88	WIS 441: Fox River Bridge	Structure plans	1991
4685-2-89	WIS 441: CTH KK (Calumet St.)to US 41	Bridge plans for structure B-44-122, 123, 125	1993
4685-2-90	WIS 441: CTH KK (Calumet St.) to US 41	Landscaping: planted trees and shrubs	1996
4685-2-91	WIS 441: CTH KK (Calumet St.) to US 41	Structure details for S-44-2, 3, 4, 5, 6	1993
4685-3-73	WIS 441: Oneida St. to CTH KK (Calumet St.)	Structure details for B-70-115, 116 B-8-25, 26, 27, 28	1993
4685-3-76	WIS 441: Oneida St. to CTH KK (Calumet St.)	Remove and replace existing roadway	1993
4685-3-78	WIS 441: Oneida St. to CTH KK (Calumet St.)	Landscaping: planted trees and shrubs	1994
4685-3-79	WIS 441: Oneida St. to CTH KK (Calumet St.)	Bridge work for structures S-8-1, 2, 3 S-70-17	1993

Project ID	Project Location	Type of Work Completed	Year
4685-3-80	WIS 441: Lake Park Rd to CTH KK (Calumet St.)	Remove and replace existing roadway	1991
4685-10-71	WIS 441: SE ramp at CTH CE (College Ave.)	Concrete pavement construction	2001
4685-14-71	WIS 441: CTH OO (Northland Ave.) SE ramp	Remove/replace guardrail, remove/replace concrete, pavement marking, various electrical work	2006

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