



Community Development Department

DATE: June 11, 2024

FROM: Ben Ehreth, Community Development Director

ITEM: Bismarck-Mandan MPO 2024 Functional Class System

REQUEST:

2024 Urban Functional Classification System.

BACKGROUND INFORMATION:

Each time a Decennial Census is taken, the Bis-Man MPO updates the Urbanized Area Boundary (UZA) and the Urban Functionally Classified (FC) System. The UZA was updated in fall 2023. Since that time, the Bis-Man MPO has worked with the engineering and planning staff from its jurisdictions, including the City of Bismarck, to update the Urban FC System. The system identifies arterial and collector roadways within the Urbanized Area which are expected to funnel and carry local and regional traffic. Functionally Classified roadways will also be eligible for the federal funding that is administered by NDDOT via the Bis-Man MPO.

The proposed changes can be viewed at: tinyurl.com/jy9ary8f. A list of changes are also attached. The first page outlines the changes requested within the UZA boundary. This includes additions, upgrades, and downgrades to roadways within the system. The second page shows changes that may be requested in the future by NDDOT or Burleigh County. Due to the UZA Boundary being made smaller, a few sections of the Urban FC System will be migrated onto the State and/or Rural Functional Class Systems.

The Bis-Man MPO TAC and Policy Board will consider approval of the 2024 FC System at their June meetings. The MPO is likewise requesting consideration and approval from all jurisdictions in the month of June. The approved system will be sent to NDDOT by July 1.

RECOMMENDED CITY COMMISSION ACTION:

Staff recommends approval of the 2024 Urban Functional Classification System.

STAFF CONTACT INFORMATION:

Rachel Lukaszewski, Principal Transportation Planner, 701-355-1852,
rlukaszewski@bismarcknd.gov

ATTACHMENTS:

1. MPO 2024 Functional Class System

Map ID	Road	From	To	Change From	Final	Jurisdiction	Mileage Length	2022 AADT*	Justification
1	Sunset Drive	Old Red Trail	27th Street N	Collector	Minor Arterial	Mandan	0.3	5870 (2022)	Land development in this area increases and will increase traffic counts.
2	27th Street N	Sunset Drive	Hwy 1806	Collector	Minor Arterial	Mandan	1	2,775	Land development in this area increases and will increase traffic counts.
3	13th Ave NW	Lohstreter Rd	13th Ave NW	Collector	Local	Mandan	0.08	not applicable	Remove to reconfigure the collector network and add Lohstreter Rd.
4	6th St NW	13th Ave NW	12th Ave NW	Collector	Local	Mandan	0.15	not applicable	Remove to reconfigure the collector network and add Lohstreter Rd.
5	Lohstreter Rd	13th Ave NW	Custer Drive	Local	Collector	Mandan	0.25	830 (2019) - 975 (2006)	Traffic counts and geometry favor Lohstreter over the current alignment on 13th Ave/6th St. Lohstreter is the eventual collector for the area, and this adds Lohstreter onto the System.
6	Custer Drive	Lohstreter Rd	12th Ave NW	Local	Collector	Mandan	0.3	no data available	Closes the loop of Lohstreter Rd
7	12th Ave NW	Custer Drive	13th Ave NW	Local	Collector	Mandan	0.08	1450-2205 (2009)	Closes the loop of Lohstreter Rd
8	6th Ave NE	1st St NE	Main St	Local	Minor Arterial	Mandan	0.11	2,265	Continues 6th Ave NE in a northward direction. Captures a high volume block in downtown Mandan.
9	8th Ave SE	19th St SE	27th St SE	Local	Collector	Mandan	0.75	1,895	Geometries meet general design for a collector. Over 700 dwelling units in this neighborhood
10	27th St SE	8th Ave SE	14th Av SE	Local	Collector	Mandan	0.35	no data available	Geometries meet general design for a collector. Over 700 dwelling units in this neighborhood
11	14th Ave SE	27th Ave SE	19th St SE	Local	Collector	Mandan	0.71	1060	Geometries meet general design for a collector. Over 700 dwelling units in this neighborhood
12	McKenzie Dr	39th Ave SE	34th Ave SE	Local	Collector	Mandan	0.23	1045	Extend classification along McKenzie Dr. More closely aligns with patterns in the neighborhood.
13	34th Ave SE	McKenzie Dr	21st St SE	Local	Collector	Mandan	0.4	no data available	Extend classification along McKenzie Dr. More closely along with patterns in the neighborhood.
14	21st St SE	34th Ave SE	40th Ave SE	Local	Collector	Mandan	0.6	2075	Extend classification along McKenzie Dr. More closely along with patterns in the neighborhood.
15	19th St SE	40th Ave SE	46th Ave SE	Collector	Local	Mandan	0.5	not applicable	Remove as the road does not carry much traffic.
16	Borden Harbor Dr SE	Southbay Dr SE	Bayshore Bend SE	Local	Collector	Mandan	0.52	1220	Since last reclassification the roads have been functioning more and more like collectors. Serves a development of over 500 homes.
17	Bay Shore Bend SE	Borden Harbor Dr SE	Lakewood Dr SE	Local	Collector	Mandan	0.2	no data available	Since last reclassification the roads have been functioning more and more like collectors. Serves a development of over 500 homes.
18	Lakewood Dr SE	Bay Shore Bend SE	40th Ave SE	Local	Collector	Mandan	0.42	no data available	Since last reclassification the roads have been functioning more and more like collectors. Serves a development of over 500 homes.
19	40th Ave SE	Lakewood Dr SE	Southbay Dr SE	Local	Collector	Mandan	0.93	565	Since last reclassification the roads have been functioning more and more like collectors. Serves a development of over 500 homes.
20	46th Ave SE	Memorial Hwy	McKenzie Ave SE	Collector	Minor Arterial	Mandan	0.55	3865 - 5835	Roadway functions more as an arterial, not a collector. Geometry is more similar to an arterial than a collector.
21	Bis-Man Ave	Memorial Hwy	Twin City Dr	Local	Collector	Mandan	0.37	945 - 1175 (2013)	Roadway collects traffic from the industrial park and Twin City Estates (over 200 dwelling units), and distributes onto Main St and Memorial Hwy.
22	Twin City Drive	Bis-Man Ave	E Main St	Local	Collector	Mandan	1.12	2470 - 2720 (2014)	Roadway collects traffic from the industrial park and Twin City Estates (over 200 dwelling units), and distributes onto Main St and Memorial Hwy.
23	REMOVED								
24	E Century Ave	Centennial Rd	Roosevelt Dr	Collector	Minor Arterial	Bismarck	0.55	8955	Land development and traffic volume increases. Section functions as a minor arterial, no longer as a collector.
25	Santa Fe Ave	S Washington St	Boston Dr	Local	Collector	Bismarck	0.62	no data available	Land development and traffic volume increases. Section functions as a collector, no longer as a local road.
26	Boston Dr	Santa Fe Ave	Burleigh Ave	Local	Collector	Bismarck	0.82	no data available	Land development and traffic volume increases. Section functions as a collector, no longer as a local road.
27	Ridgedale St Frontage Road	57th Ave NW	64th Ave N	Local	Collector	Bismarck	0.92	no data available	Frontage Road System along US83. Is within NDDOT ROW. NDDOT suggests functional classification in the event that future road work is needed in conjunction with a project on the US Highway.
28	State Street E Frontage Road	Holiday Inn	43rd Ave N	Local	Collector	Bismarck	0.38	445 (2019)	Frontage Road System along US83/State Street. Is within NDDOT ROW. NDDOT suggests functional classification in the event that future road work is needed in conjunction with a project on the US Highway.
29	State Street E/13 St N Frontage Road	Divide Ave	Capitol Ave	Local	Collector	Bismarck	0.46	1225 (2006)	Frontage Road System along US83/State Street. Is within NDDOT ROW. NDDOT suggests functional classification in the event that future road work is needed in conjunction with a project on the US Highway.
30	State Street W/ 12 St N Frontage Road - 1	Interchange Ave	Capitol Ave	Local	Collector	Bismarck	0.14	1720	Frontage Road System along US83/State Street. Is within NDDOT ROW. NDDOT suggests functional classification in the event that future road work is needed in conjunction with a project on the US Highway.
31	State Street W/ 12 St N Frontage Road - 2	Capitol Ave	North of Divide Ave/ 12 St N	Local	Collector	Bismarck	0.33	820 (2019)	Frontage Road System along US83/State Street. Is within NDDOT ROW. NDDOT suggests functional classification in the event that future road work is needed in conjunction with a project on the US Highway.
32	Bismarck Expressway South Frontage Road System - 1	Portland Dr	Laramie Dr	Local	Collector	Bismarck	0.45	140	Frontage Road System along Bismarck Expressway. Is within NDDOT ROW. NDDOT suggests functional classification in the event that future road work is needed in conjunction with a project on the State System.
33	Bismarck Expressway South Frontage Road System - 2	Bozeman Dr	S 7th St	Local	Collector	Bismarck	0.4	430	Frontage Road System along Bismarck Expressway. Is within NDDOT ROW. NDDOT suggests functional classification in the event that future road work is needed in conjunction with a project on the State System.
34	S 7th Street	Bismarck Expressway	Denver Ave	Local	Collector	Bismarck	0.3	2500 - 2910 (2014)	Needed to complete classification of the Frontage Road System along Bismarck Expressway. Frontage road is within NDDOT ROW. NDDOT suggests functional classification in the event that future road work is needed in conjunction with a project on the State System.
35	Industrial Dr Frontage Road	WAPA	Miriam Dr	Local	Collector	Bismarck	1.27	1530 (2009)	Frontage Road System along Bismarck Expressway. Is within NDDOT ROW. NDDOT suggests functional classification in the event that future road work is needed in conjunction with a project on the State System.
36	Miriam Dr	Interchange Ave	Bismarck Expressway	Local	Collector	Bismarck	0.04	2205	Needed to complete classification of the Frontage Road System along Bismarck Expressway. Frontage road is within NDDOT ROW. NDDOT suggests functional classification in the event that future road work is needed in conjunction with a project on the State System.
37	American Dr	University Dr	Basin Ave	Local	Collector	Bismarck	0.01	310	Needed to complete classification of the Frontage Road System along Bismarck Expressway. Frontage road is within NDDOT ROW. NDDOT suggests functional classification in the event that future road work is needed in conjunction with a project on the State System.
38	Basin Ave Frontage Rd	American Dr	Airport Ave	Local	Collector	Bismarck	0.83	no data available	Frontage Road System along Bismarck Expressway. Is within NDDOT ROW. NDDOT suggests functional classification in the event that future road work is needed in conjunction with a project on the State System.
39	Old Red Trail	2013 UZA Boundary	2023 UZA Boundary	Local	Minor Arterial	Morton County	0.42	630	Extension to meet new UZA boundary
40	McKenzie Dr	39th Ave SE	40th Ave SE	Minor arterial	Collector	Mandan	0.13	1045	The minor arterial was a stub. We are requesting this roadway be demoted to collector to better align with traffic patterns. Further sections of McKenzie are being requested to be a collector, see number 12.
41	Baretta St	Sunset Drive	Hwy 1806	Local	Collector	Mandan	1	no data available	Matches the FARM alignment. New subdivision being built. Mandan said the roads will be constructed by the time 2024 FC is approved.
42	8th Ave NW	27th St N	Baretta St	Local	Collector	Mandan	0.5	385	Matches the FARM alignment. New subdivision being built. Mandan said the roads will be constructed by the time 2024 FC is approved.
43	12th St NW	27th St N	Baretta St	Local	Collector	Mandan	0.5	no data available	Matches the FARM alignment. New subdivision being built. Mandan said the roads will be constructed by the time 2024 FC is approved.
44	Sunset Drive	27th St N	Baretta St	Local	Collector	Mandan	0.5	no data available	Matches the FARM alignment. New subdivision being built. Mandan said the roads will be constructed by the time 2024 FC is approved.

Proposed Changes to the Rural and State Functional Classification Systems - Corresponding to Chagnes in the 2023 UZA Boundary

101	ND 1804/ 71st Ave	2013 UZA Boundary	2023 UZA Boundary	Urban Minor Arterial	Rural Collector (or another designation requested by the State)	NDDOT	3.89	1670-3570	Removing from Urban and adding to Rural/State Highway System. UZA boundary change. MPO is submitting request.
102	River Road	2023 UZA Boundary	Burnt Creek Lp	Urban Collector	Rural Collector (or another designation requested by the County)	Burleigh	1.12	1,495	Removing from Urban and adding to Rural system. UZA boundary change. Burleigh County will submit a follow-up request.
103	Burnt Creek Rd	River Rd	US 1804/ 71st Ave	Urban Collector	Rural Collector (or another designation requested by the County)	Burleigh	0.08	no data available	Removing from Urban and adding to Rural system. UZA boundary change. Burleigh County will submit a follow-up request.
104	Tyler Parkway	2023 UZA Boundary	US 1804/ 71st Ave	Urban Minor Arterial	Rural Collector (or another designation requested by the County)	Burleigh	0.35	1,050	Removing from Urban and adding to Rural system. UZA boundary change. Burleigh County will submit a follow-up request.
105	REMOVED: Sonora Way								
106	US 83 (N Bound)	2023 UZA Boundary	2013 UZA Boundary	Urban Principle Arterial	Rural Principle Arterial (or another designation requested by the State)	NDDOT	1.3	11,190	Removing from Urban and adding to Rural/State Highway System. UZA boundary change. MPO is submitting request.
107	US 83 (S Bound)	2023 UZA Boundary	2013 UZA Boundary	Urban Principle Arterial	Rural Principle Arterial (or another designation requested by the State)	NDDOT	1.3	11,190	Removing from Urban and adding to Rural/State Highway System. UZA boundary change. MPO is submitting request.
108	Lincoln Rd	2023 UZA Boundary	80th Street	Urban Collector	Rural Collector (or another designation requested by the County)	Burleigh	0.35	210	Removing from Urban and adding to Rural system. UZA boundary change. Burleigh County will submit a follow-up request.
109	ND 1804/ University Dr	2023 UZA Boundary	Sentinel St	Urban Minor Arterial	Rural Collector (or another designation requested by the State)	NDDOT	2.6	5500 (2015)-6755 (2019)	Removing from Urban and adding to Rural/State Highway System. UZA boundary change. MPO is submitting request.
201	ND 1806 N	2023 UZA Boundary	2013 UZA Boundary	Urban Principal Arterial	Rural Collector (or another designation requested by the State)	NDDOT	4.17	3220	Removing from Urban and adding to Rural system. UZA boundary change. Burleigh County will submit a follow-up request.
202	ND 1806 S	2023 UZA Boundary	2013 UZA Boundary	Urban Principal Arterial	Rural Principle Arterial (or another designation requested by the State)	NDDOT	0.31	2475	Removing from Urban and adding to Rural/State Highway System. UZA boundary change. MPO is submitting request.
203	ND 6	2023 UZA Boundary	2013 UZA Boundary	Urban Principal Arterial	Rural Principal Arterial (or another designation requested by the State)	NDDOT	1.8	2635	Removing from Urban and adding to Rural/State Highway System. UZA boundary change. MPO is submitting request.
204	Old Red Trail/ Co Rd 139A	2023 UZA Boundary	State Hwy 25	Local	Rural Collector (or another designation requested by the State)	NDDOT	1.38	590	Adding to the Rural/State Highway System to complete the functional classification of Old Red Trail on the Urban System