

Appendix K. Priority Project Sheets

During the year long planning process several areas of Rapid City came up repeatedly as areas that local bicyclists and walkers would like better access to or feel are difficult to cross. Alta Planning and Design has provided suggestions for each of these areas in the form of the following project priority sheets. The intent of these graphics is to provide ideas to City staff and consulting engineers when these high priority areas of Rapid City are considered for reconstruction or other improvements. The high priority areas include:

- West Main Street and Jackson Boulevard intersection and the “Gap”, which is defined as West Main Street from Jackson Boulevard to West Boulevard. The public provided several comments that these streets are key access points to downtown from the west and are challenging for bicyclists and pedestrians.
- Omaha Street intersections from 5th St to 12th Street, as many public open house participants noted that Omaha Street is a very difficult street to cross and asked for suggestions to improve pedestrian and bicycle crossing of this busy street.
- Soo San Drive area by the schools- detail a network that connects the schools and the neighborhoods
- Catron Boulevard and 5th Street- review the proposed Wal-Mart/retail center development and provide suggestions for biking and walking access to and from the surrounding neighborhoods
- Cambell Street between Minnesota Street and Fairmont Boulevard, using the frontage road as a signed shared road and shared use path to connect Minnesota Street and Fairmont Boulevard, which are part of the bicycle network.



W Main St & St Joseph St Improvements (11th St):

- Add marked high visibility crosswalks.
- Consider Rectangular Rapid Flashing Beacons.
- Consider crossing safety flags.

W Main St & St Joseph St Improvements (West St):

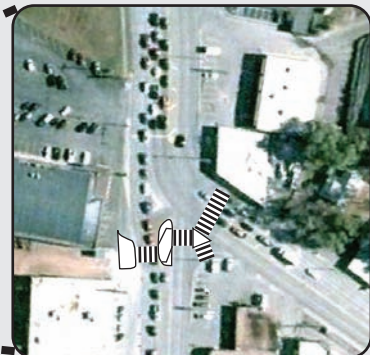
- Add marked high visibility crosswalks.
- Consider Rectangular Rapid Flashing Beacons.
- Consider crossing safety flags.

W Main Street Improvements:

- Remove one travel lane in each direction
- Provide Two Way Left Turn Lane where needed
- Provide wide bike lane, or buffered bike lane depending on available shoulder width.
- Current ADT is at upper end of capacity for 4-lane urban road.

Main St / Jackson Blvd Intersection:

- Install pedestrian countdown timers
- Install pedestrian crossing on western leg
- Install pedestrian refuge island on western leg in unused center turn lane - will also require modifications to ACE Hardware exit
- Install pedestrian crossing on southern leg
- Improve refuge island on southern leg
- Add Leading Pedestrian Interval (LPI) to Pedestrian Phase when called
- Coordinate pedestrian phases with vehicle phases to minimize conflicts



Legend

- Bike Lane, Planned/Proposed
- Shared Lane, Planned/Proposed
- Signed Shared Roadway, Proposed
- Shared-Use Path, Existing/Proposed
- Side Path, Existing/Planned/Proposed



West Main Street Improvements Rapid City, SD





***Note:** SDDOT will change signal timing along the corridor to a Traffic Adaptive Signal Control System. Recommend below improvements be considered following signal changes and Corridor Study.

5th St & Omaha St Improvements:

- Install pedestrian signals on free right lane.
- Alter signal phasing to separate left turn movements from through movements to eliminate turning conflicts in crosswalks and add Leading Pedestrian Interval (LPI).

Recently Relocated Pedestrian Crossing

- Ensure crossing is connected to Shared-Use Path System.
- Crossing between 6th and 7th has been removed.

Mt Rushmore Rd & Omaha St Improvements:

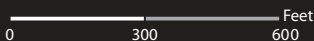
- Alter signal phasing to add Leading Pedestrian Interval (LPI).

West Blvd & Omaha St Improvements:

- Install pedestrian countdown timers.
- Install pedestrian signals on free right lanes.
- Alter signal phasing to separate left turn movements from through movements to eliminate turning conflicts in crosswalks and add Leading Pedestrian Interval (LPI).

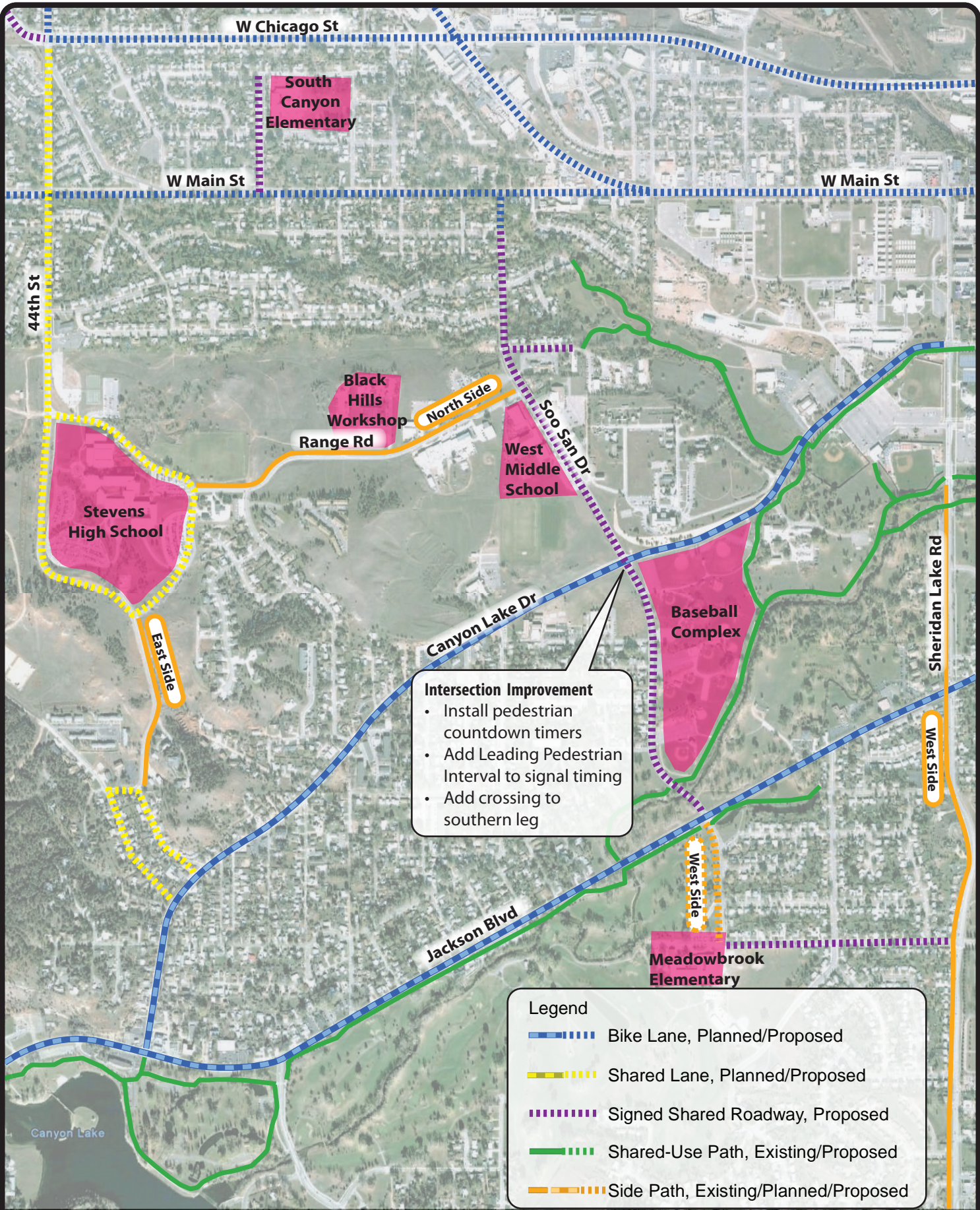
Legend

- Bike Lane, Planned/Proposed
- Shared Lane, Planned/Proposed
- Signed Shared Roadway, Proposed
- Shared-Use Path, Existing/Proposed
- Side Path, Existing/Planned/Proposed



Omaha Street Improvements
Rapid City, SD





Intersection Improvement

- Install pedestrian countdown timers
- Add Leading Pedestrian Interval to signal timing
- Add crossing to southern leg

- Legend**
- Bike Lane, Planned/Proposed
 - Shared Lane, Planned/Proposed
 - Signed Shared Roadway, Proposed
 - Shared-Use Path, Existing/Proposed
 - Side Path, Existing/Planned/Proposed

0 1000 2000 Feet



Soo San Area Improvements
Rapid City, SD





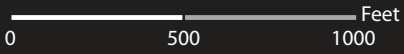
Crossing Treatments:

- Install crosswalks on north sides of intersections.
- Consider Rectangular Rapid Flashing Beacons with W11-15 warning signs.

Legend

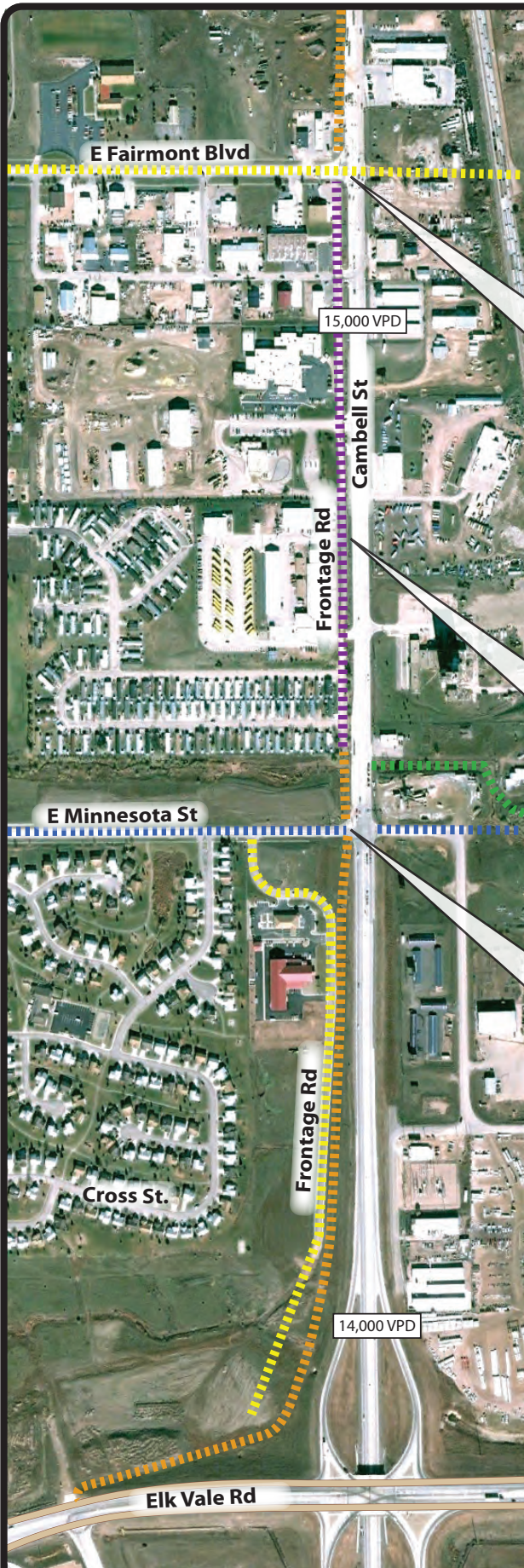
- Shared-Use Path, Existing/Proposed
- Side Path, Existing/Planned/Proposed
- Shoulder Bikeway, Existing/Proposed

5th Street & Stumer Intersection to be Signalized.



5th Street (Walmart) Improvements
Rapid City, SD





E Fairmont Blvd & Cambell St Treatments:

- Install Crosswalk on eastern leg.
- Install Pedestrian Signals on free right lanes.
- Alter signal phasing to separate left turn movements from through movements to eliminate turning conflicts in crosswalks (when pedestrian phase is active).

Frontage Road Treatments:

- Install Bike Route Signs
- Install 'Share the Road' Signs

Minnesota St & Cambell St Treatments:

- Install Crosswalk on eastern leg.
- Install Pedestrian Signals on free right lanes.
- Alter signal phasing to separate left turn movements from through movements to eliminate turning conflicts in crosswalks (when pedestrian phase is active).

Legend

- Shoulder Bikeway, Existing/Proposed
- Bike Lane, Planned/Proposed
- Shared Lane, Planned/Proposed
- Signed Shared Roadway, Proposed
- Shared-Use Path, Existing/Proposed
- Side Path, Existing/Planned/Proposed

0 500 1000 Feet



Cambell Street/ Frontage Road Improvements
Rapid City, SD





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