

## DRIVE TO PROSPERITY: MANUFACTURING DRIVE AND BLUFF BLVD. BUILD GRANT PROJECT BENEFITS

### KEY BENEFITS:

**Improved Safety:** Reduce traffic accidents by 50% (384 accidents in last five years) by converting Bluff Blvd to 3-lane roadway, and widening Manufacturing Drive to a 3-lane roadway. Intersections will be aligned to right angles in order to improve site distances at many intersections along both streets.

**State of Good Repair:** Manufacturing Drive and Bluff Blvd. is the 2<sup>nd</sup> busiest street in the City, yet lacks good repair in stretches, especially along sections of each road where pavement that is nearing 100 years old.

**Economic Competitiveness:** This corridor is a major arterial through the heart of the City, improvements will increase efficiencies of movement of people and goods to business, saving money and stimulating further development of the area.

**Environmental Protection:** Treatment of contaminated storm-water runoff, separation of storm and sanitary sewer, bridge elevation over high water marks, reduced vehicle emissions, LED street lights, solar powered pedestrian pathway lighting, permeable pavement on side streets, tree planting, and use of recycled pavement materials are examples of environmental benefits.

**Quality of Life:** Expanded access to commercial areas of the City for residents, increasing safety, capacity, and likely volume to destinations such as Wal Mart, Wild Rose Casino, Hobby Lobby, Kohl's, Aldi, one of the largest employers, Nestle Purina, various elementary, secondary, and post-secondary educational institutions, and health care facilities. Also addition of multi-modal enhancements such as bike trails, sidewalks, and accessible bus-stops.

**Innovation:** Applying multiple innovative strategies such as roundabouts, solar powered walkway lighting, permeable pavement, sidewalks with alternative materials, and heat trace elements will create many benefits relating to cost, safety, sustainability, and efficiency.

**Partnership:** This project gives the City an opportunity to partner with a variety and potential extensive number of local companies, including utility companies.

**Project Readiness:** Technical feasibility, project schedule, required approvals, and project risks and mitigation strategies have all been evaluated and determined to not be of issue to this project.

### SPECIFIC BENEFITS TO DIFFERENT AREAS ALONG MANUFACTURING DRIVE AND BLUFF BLVD.:

Manufacturing Drive from Valley West Drive to South 19<sup>th</sup> Street

- Removal of existing 2-lane, 22-foot wide, rural section concrete road, which is nearly 100 years old and is structurally deficient.
- Expansion of Manufacturing Drive to a 3-lane road (including a center 2-way left turn lane) is expected to reduce the accident rates by a factor of up to 50 percent.
- Right turn lanes added at South 19<sup>th</sup> Street, South 21<sup>st</sup> Street, and at the driveway to Nestle Purina would alleviate peak hour congestion at the busiest intersection by getting slower, right turning traffic out of the through lanes.
- Replacement of bridges over Mill Creek and Harts Mill Creek to possibly elevate the roadway to above the high-water mark (from July 2017) on Harts Mill Creek and to also allow for bike trail crossings of each waterway.
- Construction of a storm sewer system, which would collect storm water from the right-of-way and discharge to nearby creeks and streams is expected to cause a stark reduction in pollutant loads to Mill Creek.
- Construction of a bike trail along the entire stretch of roadway, and it is anticipated that other amenities, such as park benches and picnic tables could be added along the trail.
- Additional safety improvements including expansion to a 3-lane road, widening, re-alignment, addition of turn lanes, and a possible roundabout at South 19<sup>th</sup> Street, which would reduce vehicle accidents, lower emissions, decrease traffic delay, and decrease operating and maintenance costs.
- Other improvements such as sanitary sewer improvements where necessary, addition of LED street lights, and numerous tree plantings throughout the vast expanse of right-of-way.

#### Manufacturing Drive and South Bluff Blvd. from South 19<sup>th</sup> Street to South 14<sup>th</sup> Street

- Widening to 3 lanes with a center turn lane to service all intersections and driveways along this corridor and increase capacity to accommodate future growth.
- Improvements at the intersection of South 14<sup>th</sup> Street including updated signal infrastructure and widened curb radii at the south leg of the intersection.
- Re-alignment of the intersection of South Bluff Blvd. and Manufacturing Drive to allow better site distance in all directions, and to separate this intersection from the College Avenue intersection.
- Reconstruction of the sidewalk as a 10' wide bike trail along the south side of the street after widening to improve access to the school and the new bike trail along Manufacturing Drive.
- Improvements to the storm sewer system and outfalls to the Manufacturer's Ditch area would alleviate flash flooding events on the street.
- Improvements to side streets of College Avenue, South Bluff Blvd., and South 18<sup>th</sup> Street), including re-alignments and reconstructions where necessary. Closure of the intersection of South 17<sup>th</sup> Street.
- Other improvements such as sanitary sewer improvements where necessary, addition of LED street lights, and tree plantings where possible.

#### South Bluff Blvd. from South 14<sup>th</sup> Street to 7<sup>th</sup> Avenue North

- Reconstruction of existing roadway to 3 lanes with a center turn lane to service all intersections and driveways along this corridor and will increase capacity to accommodate future growth. The existing 4-lane road is not functional or necessary to convey this type of urban traffic. A dedicated center turn lane is important along the entire stretch of Bluff Blvd to locate turning vehicles in their own lane, which will allow all through traffic to flow freely.
- Re-alignment of the following intersections to improve site distance, and decrease auto accidents:
  - 7<sup>th</sup> Avenue South/Thorwaldsen Place
  - 4<sup>th</sup> Avenue North/Springdale Drive
  - Minor re-alignment of intersections at 8<sup>th</sup> Avenue South and 5<sup>th</sup> Avenue South.
  - Other intersections could possibly be re-aligned to 90 degrees at 4<sup>th</sup> Avenue South, 3<sup>rd</sup> Avenue South, and 1<sup>st</sup> Avenue/Ike's Peak Road. Low traffic volumes exist at these roads, so it may not be necessary.
- Sanitary and storm sewer separation, which is necessary in accordance with our Long-Term Control Plan. Storm sewer enhancements are also necessary along the roadway to alleviate flash flooding events.
- Eliminate the reverse curves at several locations along Bluff Blvd, especially between Woodlawn Drive & Crescent Drive. These would be straightened to the extent required to fit within US DOT design criteria.
- Other improvements along this stretch include reconstruction and widening of the sidewalk throughout the corridor, the addition of LED street lights, and tree plantings where possible.

#### FUNDING:

- City of Clinton: \$3 million
- State of Iowa: \$3 million
- BUILD Grant: \$19 million
- Total Project Cost: \$25 million

#### PROJECT SCHEDULE:

- Grant Deadline: July 2018
- Design: July 2019 to December 2019
- Bid Letting: October 2020
- Construction: May 2021 to November 2022