

2023 Recommended Capital Project Descriptions October 17, 2022

0.75% SALES TAX CAPITAL FUND PROJECTS

Fire Department

1. **Fire Safety Training Center Props (First Responder Tax Funded), \$115,000** – The Fire Department will be adding necessary propane props for required State fire certifications. These propane props will include the ability to simulate a liquid fuel fire and a vapor fuel fire. These propane props will complement the live-fire activities for recruit fire academies and annual proficiency training for current firefighters.
2. **Fire Station No. 7 Aerial Truck (ladder) Equipment, (First Responder Tax Funded), \$228,373** – In anticipation of construction of Fire Station 7, the aerial ladder truck was ordered in 2022 due to the length of time necessary to build the unit. The equipment for this truck which includes fire hose, self-contained breathing apparatus, and medical equipment, will be purchased in 2023. The final equipment purchase will be in 2024 for the ambulance.
3. **Fire Station No. 7 Ambulance, \$260,273** - This ambulance is a new purchase that is part of the Fire Station 7 project. This apparatus is a medical response and transport vehicle identical to the other ambulances in the fleet.
4. **Fire Station No. 7 Land Acquisition (First Responder Tax Funded), \$500,000** – With the passage of the First Responder Tax in 2019, the third of three fire stations will be built in the northwest area of the response district. Capital funds for the land purchase are in the 2023 budget and funds for construction are planned for 2024.
5. **Rescue Boat (First Responder Tax Funded), \$100,000** – This boat is a replacement for an older boat that is no longer safe to operate on the river. This new boat will be a jet boat with the capabilities to operate in shallow water, deploy rapidly, and transport up to 6 personnel.

GENERAL SERVICES

6. **Property Acquisition – \$1,500,000** – Acquisition for additional office space.

INFORMATION TECHNOLOGY

7. **Carrier Neutral Location for Broadband (DOLA Grant \$250,000) \$500,000** – The State of Colorado Broadband Office and Grand Valley regional governments are collaborating to bring more high quality, resilient, cost-effective broadband to our region via middle-mile fiber networks and strategically located Carrier Neutral Location (CNL) Broadband Facilities. The Grand Valley regional broadband plan calls for a CNL in Grand Junction. Working with Corey Bryndal, Colorado Regional Broadband Director, the IT team has identified appropriate facility space in City Hall to construct and implement a GJ CNL at an approximate cost of \$500,000. IT anticipates a high likelihood of receiving DOLA EIAF grant funding (requiring 50% match) for the implementation of a GJ CNL. The GJ CNL will provide the City of Grand Junction with abundant high quality, resilient, cost-effective broadband for City operations and will facilitate local Internet Service Providers (ISPs) in delivering better broadband to our community and region. Mesa County summarizes: “The goals of these middle-mile upgrades would be to increase capacity, reduce cost and improve the reliability of Internet and data services for all homes, businesses, and government entities within the County”.

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PARKS & RECREATION

8. **5th Street Plaza Restrooms (DDA Share \$200,000), \$400,000** – The 5th Street Bathroom off Main Street is highly problematic. It is subjected to repeated instances of vandalism and high volumes of trash. Despite efforts to keep it clean, it is generally an unpleasant place to visit and consequently sees limited use from downtown shoppers and diners. Staff propose a solution that has had success in other communities such as Colorado Springs: a minimalist, self-cleaning bathroom. On August 11th, the Downtown Development Authority approved a \$200,000 contribution from its capital budget to provide half of the cost for this facility. It is expected the new facility will much better serve the public that is shopping and dining downtown as well as reducing maintenance issues currently plaguing the antiquated 5th street bathroom. This includes repeated plumbing issues when items are flushed in the toilets including used needles, towels etc.
9. **Canyon View Park Asphalt Parking Lot Renovations, \$1,200,000** – Aside from some patching, the Canyon View parking lot is original since the 1997 construction. This project repairs the deteriorating roadways interior to the park on all sides. With G road being closed, major construction traffic and resident traffic have caused additional wear and tear. This renovation provides a full overlay to support the heavy traffic and high level of year-round utilization at Canyon View Park.
10. **Chipeta Playground Renovations, \$245,000** – One of the six, intergovernmental agreement schools, the City maintains these school grounds which then double as a public park. The City also uses this site for a summer camp site as well as for youth basketball. The limited field space for this large school causes the field to be beat down and turned to mud within the first few months of the school year. The field is then reseeded each summer and is unavailable for use by the City's summer camp. The plan would be to install an artificial turf field to ensure year-round use, install shade trees and shade shelters for two playgrounds.
11. **Downtown Electrical Outlet Replacements (DDA \$10,000), \$50,000** – The original design of the electrical system downtown makes a large portion of electrical outlets available all at once, with minimal ability to limit access. This has been highly problematic when attempting to manage positive use and deterring unwanted activity. Holiday lights, for example, makes power available all day through the holidays season and creates loitering issues and camping situations. The conversion of outlets eliminates the need for staff to be on site to manage power for different events and uses. The DDA will cover \$10,000 of this cost making the City's share \$40,000.
12. **Emerson Park Destination Skate Park Design, \$100,000** – Leaders of the skate parks community meet quarterly with Parks & Recreation, meetings that have revealed an increasing need for an advanced skate park. The community has two 20+ year old skate parks, which only provide beginner and intermediate features, which means advanced middle school, high school and beyond skaters lose interest once they are at an advanced level. The project involves completing a Master Plan for Emerson Park, the site of this advanced skate park per the 2021 PROS Master Plan. The site was selected due to its limited access other than active transportation as well as the need to reinvent this park that is increasingly taken over by the unhoused in the community. Design will include cost estimates for construction.

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- 13. Las Colonias Large Shade Shelters for River and Dog Parks (Parkland Funded), \$130,000** – Along with Canyon View and Lincoln Park, Las Colonias has emerged as a regional park. The park sees heavy traffic from concert goers, river park users, dog park users, bikers, boaters, and walkers. Being a newly developed park, the trees are not yet mature. Therefore, there is a shortage of shade, especially in the River Park and in the dog parks. This capital project builds shelters in these two popular park destinations.
- 14. Lincoln Park Pool Boiler (Conservation Trust Funds), \$50,000** – The current boiler has had significant issues and therefore the Lincoln Park Pool struggles to maintain comfortable temperatures. Replacing the boiler, along with the pool plaster project, will elevate the temperatures that are often too cold for users, especially younger children.
- 15. Lincoln Park Pool Replaster (Conservation Trust Funds), \$325,000** – With the Community Recreation Center (CRC) planning centered at Matchett, Lincoln Park pool is planned to continue serving in its current configuration for the foreseeable future. This requires additional investment to ensure functionality and longevity. Making these improvements now also send the message that the City is committed to maintaining what it has when new facilities are being pursued. Along these lines, the most urgent needs at Lincoln Park pool are proposed as a part of the 2023 budget. At the top of the list is the re-plaster of the pool shell. Currently, thousands of gallons of treated and heated water is lost due to leaks in the pool shell caused by the deteriorating plaster at the end of its useable life. This replaster fully fixes the remaining leaks, which will save on water, chemical, and utility costs.
- 16. Pine Ridge Restroom Enclosure, \$25,000** – The four dedicated and two shared pickleball courts (painted on one tennis court) makes for a high level of regular traffic at Pine Ridge. This makes a portable toilet necessary. Complaints from an adjacent residential development caused the location of this to move. Given the need for near year-round service, staff plans to improve the aesthetic by providing this restroom enclosure. This will balance the need for maintaining a beautiful landscape while also providing needed restroom facilities.
- 17. Playground Repair and Replacement (Conservation Trust Funds), \$100,000** – The 25 playgrounds in the system were audited internally and the list of repairs and replacements has grown. Consequently, the parts and repair budget increases in the short term to ensure user safety.
- 18. Riverfront Trail Widening at Broadway & Colorado River, \$400,000** - The Riverfront Trail segment over the Broadway Bridge is very narrow at only 5 1/2 feet between the concrete barrier and the 6-foot chain link fence. This makes it very difficult for two bikes to pass going opposite directions without slowing down significantly or stopping. The popularity of bike trailers for kids/dogs as well recumbent tricycles also makes it difficult to use this long narrow corridor. This project proposes to reconstruct the concrete barrier 24 inches to the south and then reconstruct the chain link fence to attach to the side of the bridge deck instead of the top of the bridge deck gaining 6-8 inches more. This project will be subject to CDOT approval.
- 19. Skate Park Improvements-Eagle Rim, \$60,000** – Eagle Rim is one of the two skate parks in Grand Junction, and it has seen tremendous usage in its two plus decades of service. There are many

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“trip hazards” and modifications needed to improve safety of users and usability of the park. This replacement will coincide with other area improvements including the Zipline projected to be complete by the end of 2022. In the Fall of 2022, a new mural program will address the graffiti issue that has proliferated. The murals will be tightly packed together to discourage any graffiti. Murals produced by artists who earn compensation for their work are much less likely to be tagged by others, which preserves the art and avoids offensive messaging. The skate community will continue to advise so that the new features provided by this short-term renovation are strongly desired by the skating community. This visible and immediate improvement will complement the design and planning of Emerson Skate Park, the construction of which will be in a future budget cycle.

- 20. Tour of the Moon/Jurassic Flats Restroom Vault, Grading, \$80,000** – The Tour of the Moon is one of the Grand Junction Area’s signature road bike rides. This project develops a more formal trailhead for the Tour of the Moon on the route. The trailhead at the northwest corner of South Camp and Monument Road will also be at the end of the Monument Trail Phase II. This final link in the 10-mile Redlands Loop will be constructed in 2023. The project entails installation of a vault toilet, grading of the parking lot and placement of asphalt millings supplied by the City as well as post and cable fencing around the perimeter. This will provide parking for road bikers and reduce congestion in the Lunch Loop trailhead, which is an increasing issue that will continue with the construction of Monument Trail Phase II.
- 21. Trails-Asphalt Trail Replacements (Parkland), \$500,000** – The City has over 9.2 miles of asphalt trails all over 25 years old in various states of disrepair. This includes various trail locations along the Ridges, South Camp, Redlands Parkway, Junior Service League, Riverfront, and the South Rim Access to State Park. This program will utilize Project Team staff to replace trails with concrete over a four-year period (which began in 2022) for a total of \$1.5 million for materials. Performing in-house provides an estimated 60% savings on the project compared to contracting out.
- 22. Water Conservation Projects – Turf to Native, \$75,000** – Several areas in our parks system have turf that has a very low level of utilization. To conserve water and save on maintenance resources while still preserving an attractive aesthetic, the parks department uses this funding to covert manicured turf to native areas. The native areas employ local florae including shrubs and trees, along with other attractive landscaping elements.
- 23. Watson Island Disc Golf Revegetation, \$30,000** - Watson Island is another key area linking Las Colonias and Dos Rios. Improvement and protection of this natural space for recreation is one goal in the 2021 PROS Master Plan. As part of the continued effort to revitalize the riverfront, native plantings will occur around Watson Island. This is important to out-compete invasive tree species such as Tamarisk and Russian Olive. It will also improve the aesthetic of the highly popular disc golf course. This is also a segment visible from and adjacent to the town run route for kayaks, rafts, and other watercraft. This highly accessible town run goes from the Las Colonias Boat Ramp to the Blue Heron Boat Ramp.

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PUBLIC WORKS

- 24. 23 3/4 Road Mosaic Factor Development, \$80,000** – As part of the Mosaic Factory construction at Three Arrows development, the west side of 23 ¾ Road is required to be constructed by the developer. This project will reimburse the developer to construct the east half of the street between Leland Avenue and F ½ Road.
- 25. 4th and 5th Street Design and Improvements, \$700,000 (\$3.35 million 2024-2027)** – The 4th- 5th Street One-way to Two-way Feasibility study included alternatives for both an enhanced one-way design as well as a two-way configuration. City Council and DDA concurred with moving forward with improvements that will maintain the one-way configuration however will enhance safety, improve walkability and bikeability, activate economic development and optimize traffic circulation. 2023 will have pop-up elements such as bollards and striping will “set” both corridors into the final configuration. For 2024 through 2027, permanent improvements are proposed to approximately two blocks each year.
- 26. 6th and Rood Pedestrian Improvements, \$70,000** – This intersection has been a source of concern for downtown users for years. Diagonal parking on all four corners, limits sight distance for both motorists and pedestrians. The current wide lanes allows for higher speeds for east west movement. This project will construct bulb outs on all four corners to help narrow the street as well as provide pedestrians a safer place to view on-coming traffic for drivers to be able to see the pedestrians intending to cross.
- 27. Alley Improvement Districts, \$900,000 (Assessment Revenue \$300K)** – The proposed funding in 2023 will replace two alleys. This program is a partnership with adjacent property owners where residential properties pay 10% of the cost, multifamily 15%, and commercial 50%. Alleys will be reviewed and selected based on previous interest. The first alley proposed for 2023 include the Grand Junction High School (GJHS) Alley (\$650,000 with \$250,000 revenue) which coincides with the new Grand Junction High School construction project. The second alley planned for 2023 is located between Pinyon Avenue and Walnut Avenue from 13th Street to 15th Street with an estimated total cost of \$250,000 with estimated \$50,000 in contribution revenue.
- 28. Bridge Repairs (guardrails, lighting, paint, etc.), \$95,000 (\$105,000 planned for 2024)** – The City has 43 major (>20 ft. span) bridges and 46 minor (<20 ft. span) bridges to maintain. This item pays for materials for City crews to address maintenance items on some of the bridges to assure they remain in a state of good repair. These items include crack filling, abutment repairs, expansion joint gland replacements, and debris removal from around bridge piers.
- 29. Colorado River Levee Renovations, \$100,000** – The City of Grand Junction's levee was constructed in 1996 by the Army Corp of Engineers. It extends from the Union Pacific Railroad (UPRR) Railroad Bridge to the Las Colonias Amphitheater and protects most of lower downtown. The Army Corp of Engineers had deactivated the levee until several encroachments and culverts/discharge pipes can be corrected to meet current standards. City crews can complete the work so the budget is for materials only except for the relief/toe drains which will be contracted out.

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- 30. Contract Street Maintenance, Chip Seal, Crackfill \$3,525,000** – Street Maintenance requires an ongoing annual commitment to maintain the City’s \$266 million worth of street assets. A pavement management system is used to evaluate pavement quality and prioritize street maintenance needs. Parameters used to determine the pavement condition for major streets include ride quality, structural adequacy, and surface distress. The City is divided into 12 Street Maintenance Areas (SMAs) with an area scheduled to receive a chip seal each year. However, each of the streets in an SMA are analyzed for the proper treatment, whether that be a fog seal, chip seal, microsurface, overlay or total reconstruction. In 2023, the City’s street maintenance efforts will focus on:
- Contract Street Maintenance – The annual program includes contracting for street maintenance using treatments such as hot mix asphalt overlays, asphalt patching, high density mineral bond (HA5), and street reconstructions.
 - Chip Seal/Crackfill – The City’s crackfill program aims to fill cracks in all the road surfaces that are planned for chip seal, microsurface or other light maintenance activity. Chipseal enhances safety by providing good skid resistance. They provide an effective moisture barrier for the underlying pavement against water intrusion and prevent deterioration of the asphalt surface from the effects of aging and oxidation due to water and sun.
- 31. Curb, Gutter, and Sidewalk Safety Repairs, \$420,000 (\$441,000 planned for 2024)** – This program includes the replacement or repair of deteriorated or hazardous curbs, gutters, and sidewalks on City streets. It also includes replacement of curbs and gutters that do not properly drain. Tripping hazards on sidewalks are given highest priority. Concrete replacement locations are determined from field surveys and citizen complaints. Each location is rated and prioritized according to the type of problem and degree of hazard. The benefits include keeping curb, gutter, and sidewalks in a state of good repair providing a reliable surface for non-motorized users and conveyance of stormwater without standing water.
- 32. Downtown – Main to Trains Connector – 2nd Street Promenade, \$100,000 (\$900,000 planned for 2024)** – The Downtown Development Authority’s Plan of Development identified 2nd Street as a key connection between the Entertainment and Hotels District on Main Street, train depot, and ultimately to Dos Rios. The vision of the corridor is a corridor that still allows for vehicles but emphasizes wide pedestrian friendly spaces. Design is proposed for 2023 with construction as part of CDOT’s I-70B corridor improvements.
- 33. North Avenue Enhanced Transit Corridor, \$2,150,500 (CDOT \$1.35 Million)** – In 2022, the City provided the matching funds for the Grand Valley Regional Transportation Planning Office’ North Avenue Enhanced Transit Corridor Study. The study evaluated pedestrian access analysis, traffic safety analysis, bus stop amenities analysis, transit speed and reliability analysis, detailed review of transit signal prioritization, and multimodal path analysis. The study helped identify and prioritize a series of projects. The highest priority project is to provide detached multi-modal sidewalks along the north side of North Avenue between 28 ½ Road and 29 Road. The second highest priority was the segment along the south side of North Avenue between 29 Road and 29 ½ Road. This project will design both segments and will construct the highest priority segment and as much of the second priority segment as budget allows. Mesa County has secured transit funds through CDOT subject to the City providing the matching funds as confirmed by City Council on September 1, 2021, Memorandum of Understanding.

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- 34. Ranchman’s Ditch Trail, \$100,000 (\$1.4 Million planned for 2024)** – The City has been working with Grand Valley Irrigation Company on a section of canal that could be used as a pilot project for trails on the canals. The selected reach is on Ranchman’s Ditch which runs in large pipes along the south side of Patterson between 24 ½ Road and 25 ½ Road. Design in 2023 with construction slated for 2024.
- 35. Rapid Flash Beacon Crosswalk Equipment, \$70,000** – To enhance pedestrian conspicuity and increase driver awareness at uncontrolled, marked crosswalks, transportation agencies can install a pedestrian actuated Rectangular Rapid Flashing Beacon (RRFB) to accompany a pedestrian warning sign. RRFBs consist of two, rectangular- shaped yellow indications, each with a light-emitting diode (LED)-array-based light source. RRFBs flash with an alternating high frequency when activated to enhance conspicuity of pedestrians at the crossing to drivers. This project will provide the materials for rectangular rapid flash beacons (RRFB) to be constructed at Orchard Avenue near the CMU track, West Main Street at Spruce Street, and Horizon Drive on the north side of the northern roundabout.
- 36. Riverfront Trail Bank Stabilization – Ice Rink Phase II, \$400,000** – In 2020, city crews restored a segment of riverbank and riverfront trail that had washed away in 2018. Another 600-foot section, just south of this repair is in jeopardy of washing out with erosion encroaching near the trail. Emergency repairs were made to a small section of this reach in 2022. This will stabilize the balance of bank that is at risk.
- 37. Riverside Parkway at Highway 50 Retaining Wall Improvements, \$1,000,000 (\$1M planned for 2024)** – The Riverside Parkway interchange was constructed with tall mechanically stabilized earth (MSE) walls. These walls have settled and moved over the last 15 years since it was constructed. While the walls are still currently safe, this project will stabilize the walls with geotechnical soil nails in 2023 ensuring longevity of the structures. In 2024, reconstruction of much of the curb, gutter, sidewalks, medians, and road surface is proposed to repair the infrastructure damaged by the differential settlement.
- 38. SRTS – 27 Road South of Highway 50 to B 1/2 Road, \$140,000 (CDBG \$99,501)** – This project will add 620 feet of sidewalk to the west side of 27 Road between Highway 50 and B ½ Road tying sidewalks on B ½ Road into signalized crossing of Highway 50. The project was recommended by the Urban Trail Committee.
- 39. SRTS – Rocket Park Crosswalk, \$40,000 (CDBG \$40,000)** – Orchard Avenue is a busy east-west collector road. This project will construct ramps and cross walk across Orchard Avenue at Rocket Park near N. 26th Street. This project was recommended by the Urban Trails Committee to provide a safer crossing of Orchard for residents north of Orchard to Rocket Park.
- 40. Street Lights, \$80,000** – This project relocates and replaces the often-hit streetlights at the 12th Street and Horizon Drive Roundabout.
- 41. Traffic Signal Upgrades, \$271,000** – The City currently owns 52 traffic signals with electronic controllers of varying age and functionality and operates the 46 state highway signals inside the

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City limits under a maintenance contract. Upgrades to signal equipment are required for safety and compliance with Federal requirements. This is an on-going replacement/upgrade program for traffic signal controllers and other equipment. Maintaining a replacement cycle for signal controllers and equipment is necessary, primarily because of the limited-service life of the equipment which is exposed to in-the-field conditions. It is also necessary to keep pace with current technology supporting traffic signal coordination, vehicle detection, and emergency pre-emption systems; all of which contribute to safer and less congested roadways.

- 42. Union Pacific Railroad Downtown Quiet Zone, \$620,000** – Currently trains must sound horns at both the 7th Street and 9th Street crossings through downtown. The DDA and The City hired a consultant to evaluate the feasibility of developing a quiet zone. With the construction of additional safety measures including improved signal circuitry, additional arms, and median work, UPRR would not be required to sound horns at each of the crossings increasing quality of life for all downtown residents, businesses, and visitors. Design for \$100,000 is proposed for late 2022 with construction slated for 2023.

STORM DRAINAGE FUND CAPITAL PROJECTS

- 43. Drainage System Improvements, \$30,000** – Many small drainage improvements are constructed by City crews. This funding buys materials for Public Works Stormwater Division to install.
- 44. Three Arrows/Halandras Development Drainage Replacement and Upgrades, \$1,500,000** – As part of the Three Arrows development, a new signalized intersection will be constructed at I-70B and F ½ Parkway. Grand Valley Drainage District (GVDD) has an aging, undersized, facility under I-70B, UPRR, and River Road that needs replaced prior to the intersection improvements.

TRANSPORTATION CAPACITY FUND CAPITAL PROJECTS

TRANSPORTATION CAPACITY

- 45. 31 Road North of Orchard along Lewis Wash, \$200,000** – As part of the development of Grand Valley Estates west of Central High School, this project will reimburse the developer to construct the western 16 feet of 1200 feet of 31 Road.
- 46. Broadway at Reed Mesa Left Turn Lane, \$400,000 (Mesa County \$75,000, Magnus Dev. \$75,000)** – As part of the Magnus Court Subdivision State Highway 340 (Broadway) access approval from CDOT, a left turn lane is needed at Reed Mesa. This project will widen Broadway to accommodate a west bound left turn lane as well as relocated the existing pedestrian signal west of the intersection. The work is proposed in the summer of 2023 to avoid school. As the turn lane is benefits existing subdivisions, Mesa County is contributing \$75,000 for the project. The developer is participating \$75,000 in addition to payment of transportation impact fees. Originally budgeted for 2022 construction, the development was postponed until 2023 and therefore the City similarly postponed the turn lane construction.
- 47. Crosby Avenue 25 ½ Road to Main Street, \$2,500,000 (\$1M CDOT Revitalizing Main Streets Grant)** – Crosby Avenue serves as an extension of Main Street to significant retail shopping and both existing and burgeoning residential areas. The high-return, timely project will substantially

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improve safety, economic opportunity, and active transportation access in the heart of the community. Crosby Avenue would transform from a narrow local street with no bicycle or pedestrian facilities to a robust multimodal corridor with safer facilities, landscaping, and lighting tying into the existing bicycle-pedestrian bridge over the Union Pacific Railroad tracks between the Riverside neighborhood and the rest of Downtown. The City received a CDOT Revitalizing Main Street grant in the amount of \$1.0 million for the project.

- 48. F 1/2 Parkway, 23 ½ Road to 24 Road (Halandras), \$2,550,000** – The metro district for the Three Arrows development will be constructing F ½ Parkway from I-70B to 23 ¾ Road. This project will design and build the balance of the quarter-mile section of Parkway to connect to 24 Road. This 5-lane, multimodal arterial will provide an alternative route around congested Patterson Road and serve the developing area.
- 49. G Road at 26 Road Intersection Improvements (Roundabout), \$70,000 (\$320,000 planned for 2024 and \$1.6 million planned for 2025)** – The G Road at 26 Road Intersection will be reconstructed, and the existing four-way stop controlled intersection will be replaced with a single-lane roundabout as a capacity and safety improvement. 2023 is slated for design, 2024 for right-of-way acquisition and 2025 for construction.
- 50. Highway 50 at Palmer Street Intersection Improvements, \$461,500** – As part of Tracy Village Subdivision development, per TCP policy, the City will fund intersection improvements at Highway 50 and Palmer Street, Highway 50 at Linden Avenue for completion of CDOT subdivision requirements.
- 51. I-70 Interchange 1601 @ 29 Road and Environmental Assessment (City Share), \$418,119** – In 2019 the City and County partnered with Mesa County on a Planning and Environmental Linkages (PEL) study that was the first phase of environmental documentation for the construction of a new interchange on I-70 at 29 Road. The completion of the documentation for CDOT's policy directive 1601 and the accompanying environmental assessment for a total of \$2.4 million which began in 2021, is being split evenly with Mesa County and is planned to be completed in 2023.
- 52. Patterson Road Access Control Plan Implementation, \$200,000** – Implementation of the Patterson Road Access Control Plan will require that adjacent properties, as they develop, construct median improvements to limit the access to that proposed in the plan to maintain corridor volumes and increase safety. The City agreed to partner on these improvements for 50%. There are four projects that are currently working through Community Development that will require median improvements: Burkey Park, Panda Express, 28 1/4 Road car wash, and Rivertown Center.
- 53. Riverside Parkway at Deseo Drive (Dos Rios) Intersection Improvements, \$550,000** – As part of the buildout of the Riverfront at Dos Rios, a new signal is warranted at the intersection of Riverside Parkway and Deseo Drive which will serve as the primary entrance in and out of the development as well as serve 2600 Riverside Parkway on the east side. The project will create a median break, left-turn lane and construct the signal.

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- 54. Tour of the Moon/South Broadway Improvements (MOU with Mesa County), \$300,000** – Mesa County and City of Grand Junction staff have been working together on improving infrastructure as follow-up to citizen concerns for the popular Tour of the Moon bike route through much of the Redlands. Mesa County has agreed to match the City’s investments in widening key segments of South Broadway to improve safety for motorists and bicyclists. Proposed for late 2022-2023 is the westbound climbing lane and trail improvements on South Broadway just east of Tiara Rado.

ROADWAY EXPANSION PROJECTS

- 55. 24 1/2 Road, Patterson to G 1/4 Road, \$500,000 (\$5.25M planned for 2024)** – *Bond Funded Project* – 24 1/2 Road will be widened to a three-lane collector including center turn lane, curb, gutter, sidewalks, and streetlights from Patterson Road to G 1/4 Road. Design in 2023 with construction in 2024.
- 56. 24 Road and Riverside Parkway Interchange, \$240,000 (\$5.3M planned for 2024)** – *Bond Funded Project* – Intersection improvements are proposed to improve circulation and make interchange more intuitive. This project also constructs bike path connecting Riverfront Trail to Mesa Mall and on to Canyon View Park. For 2023, the funding will design the intersection improvements.
- 57. 26 1/2 Road, Horizon Drive to Summerhill Way, \$1,000,000 (\$12M planned 2024 through 2026)** – *Bond Funded Project* 26 1/2 Road will be widened to a three-lane collector road including center turn lane, curb, gutter, sidewalks, and streetlights from Horizon Drive to Summerhill Way including a new pedestrian bridge over I-70. Design proposed in 2023 with ROW acquisition in 2024 followed by two phases of construction in 2025 and 2026.
- 58. B 1/2 Road, 29 Road to 29 1/2 Road, \$2,900,000** – *Bond Funded Project* – B 1/2 Road will be widened to a three-lane collector road including turn lane, curb, gutter, sidewalk, and streetlights from 29 Road to 29 3/4 Road providing safer routes for kids to get to and from school at Lincoln Orchard Mesa Elementary.
- 59. D 1/2 Road, 29 to 30 Road, \$2,900,000** – *Bond Funded Project* – D 1/2 Road will be widened to a three-lane collector including center turn lane, curb, gutter, sidewalk, and streetlights from 29 1/4 Road to 30 Road providing safer routes for kids to get to school at Pear Park Elementary.
- 60. F 1/2 Parkway, Market to Patterson \$9,000,000 (\$7.3M planned for 2024)** – *Bond Funded Project* – The creation of the F 1/2 Parkway from 24 Road to Patterson Road. This 5-lane, multimodal arterial will provide an alternative route around congested Patterson Road and serve rapidly developing area. Split into two construction phases between 2023 and 2024.
- 61. F 1/2 Road, 30 Road to Persigo Boundary, \$400,000 (\$2.9M planned for 2024)** – *Bond Funded Project* – F 1/2 Road will be widened to a three-lane collector road including center turn lane, curb, gutter, sidewalk, and streetlights from 30 Road to east of Thunder Mountain Elementary providing safer routes for kids to get to and from school. Right of way acquisition in 2023 with construction planned for 2024.

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- 62. Horizon Drive at G Road and 27 1/2 Road, \$300,000 (\$4.0M planned for 2024) – Bond Funded Project** – The Horizon Drive and G Road Intersection will be reconstructed, and the existing signalized intersection will be replaced with a two-lane roundabout as a safety improvement. Roundabouts have been proven nationally, across the state, and locally to provide significant safety improvements. The roundabout will help set the context for the corridor as the transition from a more rural Horizon Drive into the dense commercial space. The City has received a \$1.5M grant from CDOT’s Highway Safety Improvement Program for State FY2023. \$300,000 for ROW acquisition and final design in 2023 with construction in 2024.
- 63. Patterson Road Capacity Improvements (5 intersections), \$200,000 (\$300,000 planned for 2024) – Bond Funded Project** – With the volume of cars using Patterson Road higher now than ever before, there has been an observed degradation in the level of service and vehicle delays experienced at key intersections along the corridor due to traffic volume growth. The increases in vehicle delay and degradation in level of service cannot be solved with traffic signal timing optimization; it requires roadway expansion. One way to expand roadway capacity is by adding turn lanes at signalized intersections. An analysis of all the traffic signals on Patterson Road was performed to identify which intersections, and specifically which intersection approaches, would benefit the most from adding right turn lanes. In some instances, by adding turn lanes to side streets and reducing the amount of time required for north-south travel, it can provide more time for east-west travel on Patterson Road and thus increase capacity. The following represent the “Top 5”: 25 Road eastbound to southbound; 12th Street southbound to westbound; 28 1/4 Road eastbound to south bound, 29 Road eastbound to southbound, 29 Road southbound to westbound.

WATER FUND

- 64. Condition Inspection of Lower Kannah Creek Line (7 Miles), \$150,000** – The lower 7 miles of the Kannah Creek Flowline will be tested for pipe integrity and wall thickness to determine remaining useful life.
- 65. Grand Mesa Reservoir Improvements, \$50,000** – These funds will be utilized to replace the spillway on Raber-Click Reservoir as well as other minor improvements at the City’s reservoirs on the Grand Mesa recommended by the State Dam Safety Engineer based on annual inspections.
- 66. Gunnison River Infrastructure (CO Water Plan Grant, \$265,000), \$350,000 (multiple year project)** – Feasibility study and preliminary engineering design for the conversion of two gravel pits along the Gunnison River into water storage impoundments to supplement the City’s water supply. In addition to the gravel pit conversion, work will also involve replacement of the existing Gunnison River Pumpstation, connection to the existing pipeline to the water treatment plant, a new pipeline to the Orchard Mesa Irrigation District to supplement irrigation supplies, and solar technology to offset pump station energy demands.
- 67. Historic Water Treatment Plant Preservation (State Historical Fund grant \$150,000), \$200,000 (\$450,000 planned for 2024)** – Design of the stabilization, rehabilitation and adaptive reuse of the Historic Water Treatment Plant based on the Historic Structure Assessment and Preservation Plan

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developed in 2019. The City listed this building and associated structures on its Register of Historic Sites, Structures and Districts in early 2019 with the intent to preserve the building for future generations.

- 68. Kannah Creek Flowline - Reeder Mesa to Whitewater Creek, \$150,000 (\$2.75M planned for 2024)** – Design of replacement of the segment of Kannah Creek Flowline from Reeder Mesa to Whitewater Creek.
- 69. Lead Water Line Replacements, \$100,000** – Funding will be utilized to continue a lead service line replacement program. This program includes replacement of the municipal service lines as well private service lines for properties that qualify for Community Development Block Grant (CDBG) funding.
- 70. Ranch Improvements/Sustainable Agriculture (GOCO \$95,000, NRCS \$100,000), \$250,000 (\$100,000 planned in 2024)** – City Lessee plans to install gated pipe on the Anderson Ranch to improve irrigation for cattle ranching. Also, in partnership with City Lessee, a master plan will be developed for the Hallenbeck that will present plans for a public access trail, fishing, wildlife viewing, and sustainable agriculture education.
- 71. SCADA Technician Vehicle, \$60,000** – Purchase of work truck for new SCADA technician position.
- 72. Water Line Replacements, \$2,200,000** – Water Line Replacements in the distribution system. Most of the lines to be replaced are 4" to 12" cast iron lines that have been in service more than 50 years and have a recent history of breaks or are in areas targeted to increase flow capacity to meet fire protection requirements. All lines will be replaced with Polyvinyl Chloride (PVC) pipe, thereby eliminating the possibility of external corrosion. The existing cast iron pipe materials are highly susceptible to external corrosion. Selection of project areas is based on pipe condition as well as street overlay and reconstruction schedules. The 2023 project area will include lines between Orchard and Bunting Avenues east of 21st Street. In addition, water line replacements are planned to improve flow capacity to the Riverfront at Dos Rios development.
- 73. Water Meter Replacement, \$50,000** – Replacement of manual read meters with radio read meters was completed in 2022. Starting in 2023, funding will be used to upgrade meter pits and replace previously retrofitted meters that have connectivity issues with our advanced metering infrastructure (AMI) system.
- 74. Water Rights Infrastructure Development, \$100,000** – Funding will facilitate acquisition of agricultural irrigation water rights as they become available.
- 75. Water Treatment Plant Modifications, \$50,000** – These funds are used for replacement of equipment and upgrades at the water treatment plant. In 2023, expenditures will address recommendations from the Risk and Resilience Assessment in areas of improving security.

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SOLID WASTE FUND

76. Conceptual Design and Site Location Study for Material Recycling Facility, \$100,000 – A Materials Recovery Facility (MRF) is a facility that uses both machines and people to remove and sort recyclables from the waste stream. In anticipation of building a MRF for the expanding recycling program, a site evaluation will be conducted to ensure that the structure is located on a property that will accommodate the building as well as parking, loading docks and future building expansion. A conceptual design will also be completed that will broadly establish the framework/concept of the building prior to engaging in a final a design phase.

RIDGES IRRIGATION FUND

77. Ridges Distribution System Replacement, \$10,000 – This will continue an incremental replacement plan of the distribution system at the Ridges Subdivision.

COMMUNICATIONS CENTER FUND

78. 800MHz Capital Improvements, \$70,000 (annually) –This item is budgeted annually and covers emergency repairs for the 800MHz radio infrastructure that are unanticipated in the budgeting cycle (such as a lightning strike to a tower).

79. Air Hanger Vehicle Storage Building Upgrades (\$50,000 paid for by Police General Fund budget) \$100,000 Total – This item is to address anticipated upgrades to the building that the Mobile Communications Vehicle is housed in when location is moved.

80. Microwave Replacement at Radio Sites, \$315,000 – This item addresses needed upgrades to equipment at several radio sites to maintain compatibility with the statewide 800MHz radio network.

81. Radio Analyst Service Monitor Replacement, \$65,000 – This item is to cover replacement cost for a necessary piece of equipment to maintain functionality of the radios and the radio system. The current service monitor is at end-of-life.

82. Radio Bi-Direction Amplifier (BDA), \$30,000 – The bi-direction amplifier is needed to address communication challenges for officers within the police department building.

JOINT SEWER FUND

83. Collection System Equipment, \$50,000 (\$50,000 planned for 2024) –These funds are recommended to purchase specialty equipment needed to efficiently operate and maintain the sewer collection system. Funds in 2023-2024 are planned for upgrading to cellular telemetry across all 26 lift stations.

84. Jetter Truck, \$283,520 – The Jetter Truck will be used for sewer cleaning maintenance and will be an addition to the existing sewer cleaning truck fleet. It will be operated by a new two-person crew. The combination of the new equipment and personnel will improve the frequency of sewer system cleaning to align with the targeted maintenance frequency.

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- 85. Laboratory Equipment, \$225,000** – Replacement of ICP-MS laboratory equipment to perform inorganics analysis. The Environmental Laboratory previously performed inorganics analysis inhouse but when the equipment was past its useful life, it was not replaced, and the analysis has been outsourced. Due to increased costs of contract services, the lack of a local laboratory to perform regulatory analysis on a quick turnaround, and a decline in shipping reliability, replacing the equipment so inorganics analysis can be performed inhouse is recommended. Current workload for inorganics analysis is expected to increase for biosolids, watershed monitoring, industrial pretreatment, and lead and copper regulations. In addition, several smaller western slope wastewater utilities also have a need for this service.
- 86. Lift Station Elimination/Rehabilitation, \$5,842,000** – The 2023 requested funds will be used to replace the Ridges #1 Lift Station. This lift station has surpassed its design life and it is recommended to be replaced due to existing deficiencies regarding their condition, capacity, and long-term reliability. Design and easement acquisition for the new Power Road Lift station and associated sewer pipelines will be completed in 2022 and construction will be completed in 2023. Funding planned for 2023 also includes rehabilitation of lift stations that were identified in poor condition during a condition inspection conducted in 2022.
- 87. Sewer Capacity Projects - Central Grand Valley Basin, \$814,000 (\$2.98M planned for 2024)** – The Wastewater Basin Masterplan identified several capacity deficiencies in the sewer collection system under current and future flows. Funds budgeted in 2023 are to construct a flow balance structure on the Riverside interceptors.
- 88. Sewer Improvement Districts, \$1,000,000 (\$1M planned in 2024)** – In 2000, the City and the County passed a joint resolution establishing the septic system elimination program to provide incentives to property owners to eliminate septic systems. There are still approximately 1,550 properties that remain on septic systems within the Persigo 201 sewer boundary. Recommended funding for 2023 is to revitalize the incentive program by targeting completion of existing and new sewer improvement districts over the next 17 years as recommended in the 2020 Wastewater Basin Study Update. There are several proposed sewer improvements district that homeowners have requested to be initiated in 2023, these include Bookcliffs Ranch SID, Rosevale South SID, Connect Lakes SID, and Canary Lane/Red Mesa Heights SID.
- 89. Sewer Line Replacements/Rehabilitation, \$3,696,000 (\$3.69M planned in 2024)** – Funds are budgeted to replace/rehabilitate existing sewer mains within the Persigo 201 service area collection system. The collection system is comprised of approximately 577 miles of pipe of which approximately 200 miles is scheduled for replacement over the next 30 years. Since 2015, 30 miles of pipe have been replaced and 170 miles of pipe have been identified for replacement based on pipe materials. Annual condition assessments are conducted to prioritize replacements based on condition.
- 90. Wastewater Treatment Plant Rehabilitation/Expansion Projects, \$5,245,000 (\$28.5M planned in 2024)** – 2023 funding will be used for the construction manager/general contractor (GM/GC) fee during design phase and early procurement of blowers, UV system, large bubble mixing system, centrifuge, screens, washer/compactor, and grit classifier.

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- 91. Wastewater Treatment Plant Imp and Asset Replace, \$700,000 (\$700,000 planned in 2024) –**
These expenditures are associated with wastewater treatment plant improvements and replacement of aging infrastructure. The funds planned for 2023 will be used for rehabilitation of the medium voltage electrical loop at the plant, as well as replacing the forcemain on the in-plant waste pump station.