

## 2021 Adopted Capital Project Descriptions December 2, 2020

### .75% SALES TAX CAPITAL FUND PROJECTS

#### FIRST RESPONDER TAX

1. **Fire Station 8 Land Purchase, \$125,000 (First Responder Tax Funded \$125K)** – The City has secured a Letter of Intent to purchase 2 acres of land at 3095 D 1/2 Road. The Fire Department evaluated three potential sites and the location was selected based on the ability to provide coverage to the initial response area and to meet NFPA response time standards. The City has completed a third-party appraisal and geotechnical testing of the site as part of the due diligence for this purchase. The site is a new development within City boundaries and is planned to have both residential and commercial occupancies along with the fire station.
2. **Fire Station 8 (Southeast) Construction, \$5,500,000 (First Responder Tax Funded \$5.5M)** – This is the second of three new fire stations funded by the First Responder Tax. This station will provide fire and emergency medical service to the southeast area of the community, including both City of Grand Junction and Grand Junction Rural Fire Protection District service areas. The design for Fire Station 6, consisting of approximately 10,000 square feet, three drive-through apparatus bays housing a fire engine, ambulance, and sleeping quarters for eight personnel.
3. **Police Department Remodel for New Positions, \$400,000 (First Responder Tax Funded \$400K)** – The purpose of the redesign and renovation will be to maximize space and use of the current building. With the passage of the first responder tax, the GJPD will grow in authorized positions and the building will need to accommodate 31 new employees.

#### STREETS

4. **Street Maintenance, \$5,800,000** – Street Maintenance requires an ongoing annual commitment to maintain the City's \$266 million worth of street assets. In 2017, this effort was increased with the passing of 2017 Measure 2B and those funds are part of the ongoing effort to upgrade our pavement condition index (PCI) through 2022 with a target PCI of 73. A pavement management system is used to evaluate pavement quality and prioritize street maintenance needs. Parameters used to determine the PCI for major streets include ride quality, structural adequacy, and surface distress. These parameters are measured every five years by non-destructive testing methods. According to a Colorado Asphalt Paving Association 2016 study, most communities surveyed were trying to maintain a PCI of 73. 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 2021, the City's street maintenance efforts will focus on:
  - a) **Contract Street Maintenance, \$4,300,000** – The annual program includes contracting for street maintenance using treatments such as hot mix asphalt overlays, asphalt patching, micro surfacing, high density mineral bond (HA5) and minor street reconstructions.
  - b) **Chip Seal/Crackfill, \$1,500,000** – One of the most detrimental effects to the structure of a road is to let water migrate through the surface and get into the subgrade. Allowed to perpetuate, more moisture continues to weaken the subgrade causing more cracks which eventually leads to potholes and degradation of the road surface. The City's crackfill program aims to fill cracks in all of 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. This increased level of expenditure factors in the additional capacity of the Project Team that will be dedicated to street maintenance.

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### COMMUNITY DEVELOPMENT

5. **Development Code Re-Write, \$75,000 (DOLA Grant \$25K)** – It is considered a best practice upon completion of a Comprehensive Plan for a City to review its development code to ensure that its regulatory requirements align with the vision and goals of the Community. Funding has been budgeted to complete an assessment of the Code in 2021 and to conduct targeted updates to the Code as may be appropriate.

### GENERAL SERVICES

6. **Avalon Theater Improvements, \$100,000 (Foundation Match \$50K)** – This will match donations raised by the Avalon Foundation Board's pipeline project which is focused on further improvements to theater operations and patron experience.

### PUBLIC SAFETY

7. **Fire Station 3, \$5,300,000** – Fire Station 3 was scheduled for replacement in 2023 but concerns related to firefighter safety and cancer prevention, gender separation and privacy, ability for future growth, and several maintenance and capital needs have moved this project up to 2021. This project involves using the Fire Station 6 design for construction of the new fire station, demolition and possible asbestos abatement of the old station, relocation of a sanitary sewer line, and construction of a new parking lot for the Pomona/Kronkright Sports Complex. Minor improvements to the Monument Little League parking lot is also included. The new station will be built directly south of the current location on land being exchanged with Mesa County Valley School District 51. The station will consist of sleeping quarters for eight personnel and three drive-through apparatus bays housing a fire engine, ambulance, and the department's Hazardous Materials Response unit. The station will be approximately 10,900 square feet to accommodate additional storage capacity for hazardous materials equipment and supplies. The City has applied for a Colorado Department of Local Affairs Tier II Energy Impact Grant for up to \$1 million to assist with construction of this station.

### PARKS & RECREATION

8. **Blue Heron Boat Ramp Renovation, \$500,000 (GOCO Funded \$250K, Parkland Expansion \$250K)** – River utilization has seen a tremendous spike in 2020. With the River Park at Las Colonias opening, the Colorado River has become much more accessible and much more highly utilized by a broad cross-section of the population. More and more people will be on the river in 2021 and beyond, making the already inadequate Blue Heron Boat Ramp increasingly overburdened. Great Outdoors Colorado (GOCO) will have their final resilient communities grant cycle, due February 2021. The entire focus of this opportunity is to help communities combat the effects of the pandemic. A significant effect in Grand Junction is the dramatic increase in river use overburdening existing infrastructure. This renovation project will respond to this overuse by greatly increasing capacity at the Blue Heron boat ramp off 24 Road. Available parking is projected to nearly double, a new vehicle accessible boat ramp will be built with the proper grade (this is a requirement for the Fire Department's swift water rescue boats who struggle to launch at the current ramp), a new pedestrian access ramp for smaller crafts and an improved circulation pattern for all traffic.
9. **Botanic Gardens Walkway, \$26,000** – The City owns the Botanic Gardens, which is operated by Strive. The Parks and Recreation department has been improving the Gardens over the past year and this continues with the replacement of the butterfly house walkway. The current walkway is deteriorating and is uneven in several areas. The current walkway presents a safety hazard and hurts the overall aesthetic and experience of being at the Gardens.
10. **Canyon View Light Replacement \$1,295,000 (CTF Funded \$250K)** – The lights at Canyon View are all original going back to the 1997 initial phase of construction. The metal light poles are exposed regularly to irrigation water for the majority of the year. This has caused rusting and corrosion. The metal thickness of the poles at their base have thinned significantly, putting them at risk for failure and a safety hazard. The project will replace all light poles at Canyon View with a product that has a concrete, impermeable base that solves the rust problem that has caused the deterioration with the original poles.

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11. **Horizon Park Master Plan, \$50,000 (Parkland Funded \$50K)** – Fire Station 6 is located on land that can be developed as a park, Horizon Park. The area includes 1.7 acres, with total park space of 12.6 acres. Crafting a site Master Plan is the first step in building out the park.
12. **Playground Repairs, \$25,000 (CTF Funded \$25K)** – The Parks and Recreation Department is proactive in maintenance practices to extend the life, safety and playability standards recommended for public playgrounds. The Department has certified playground inspectors through the National Playground Safety Institute (NPSI) who have implemented a daily, weekly, and monthly playground inspection program that will determine the long and short-term condition of every playground structure. Typical play structures have a safe and useful life expectancy of between 10 and 15 years, however, is dependent on usage. Funds will be used for playground equipment repair and replacement parts due to wear, tear, abuse, and vandalism.
13. **Lincoln Park Stadium Master Plan: Renovation Project, \$9,000,000 (COP Refinance, \$1.5M Grant Funded)** – The refinance of the Stadium affords the opportunity to renovate this major cornerstone of the community’s infrastructure. The Master Plan was adopted January 7, 2020 and these improvements will implement most of the near-term projects described in the plan. The Stadium is primarily used by Colorado Mesa University and Mesa County School District 51. The baseball season also includes the National Junior College World Series (JUCO) which recently extended contracted use through 2044, and the Grand Junction Rockies.

The improvements to the Complex that supports both Sam Suplizio Field and Ralph Stocker Stadium include an enhanced main entry and improved spectator circulation. Also, new ticketing locations and display-retail areas will be constructed. Certain site improvements will happen as well as information-technology, electrical and audio-visual upgrades. The improvements to Sam Suplizio Field include the replacement of the outfield with new turf and proper drainage infrastructure and new bleachers and seating in certain areas. The improvements to Ralph Stocker Stadium include improvements to ticketing, bleachers and other general infrastructure. This includes a new entrance and plaza, replacement of bleachers and updates to electrical and audio-visual components.

14. **West Lake Park Renovation, \$25,374 (CDBG Funded)** – The Parks and Recreation Department received funding from the City Council’s allocation of the Community Development Block Grant (CDBG) program to complete some needed renovations to West Lake Park. Inadequate soils make it difficult for turf and other plant life to grow. Consequently, the quality of the park has declined. This will enable considerable soil amendment to be placed and significant areas of the park will be re-seeded to dramatically improve the turf areas. Additionally, new native spaces will be developed with a more xeric design, resulting in a more sustainable park requiring less water and maintenance. Additional trees will be planted in the park as well. Lastly, the Disc Golf club will be working with the Department to install a new putter’s course at the park, and this funding will provide an improved park infrastructure as this increased activation takes place.

### PUBLIC WORKS

15. **Alley Improvement Districts, \$100,000 (Assessment Revenue Funded \$20K)** – After a 10-year hiatus, this program was reintroduced in 2020 with funding for one alley. The proposed funding in 2021 will replace one alley at a yet to be determined location. 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.
16. **Curb, Gutter, and Sidewalk Safety Repairs, \$400,000 (\$400K planned for 2022)** – 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 our 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.

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17. **Las Colonias Outdoor Amenities, \$335,000** – Final step in completing this project including landscaping, shade shelters, and lighting in the central park area.
18. **Mill Tailing Repository Removal, \$100,000 (DOLA Funded)** – Since the late 1990's, the City of Grand Junction has stored uranium milling tailings from throughout the Western Slope in an interim repository at City Shops. Approximately every three years, the material accumulated is hauled to the Department of Energy's (DOE) Cheney Repository approximately 18 miles southeast of Grand Junction. The City has historically been reimbursed by DOLA for this effort. DOE is currently only legislated to keep the Cheney Repository open until September 2023. In preparation for that DOE has informed the City that it will close the facility to new material by September 30, 2021. The City plans to have a contract in place for hauling between July 1 and September 30, 2021. The City is working with our federal legislators on getting a federal authorization that would extend the life of the DOE Cheney disposal site.
19. **Safe Routes to Schools, Elm Ave. from 28 to 28 1/4 Road, \$120,000 (CDBG Funded)** – Construct 500 feet of sidewalk along the south side of Elm Avenue to connect Housing Authority Arbor Vista project to 28 1/4 Road.
20. **Traffic Signal Upgrades, \$204,000 (CDOT Funded \$50K)** – The City currently owns 52 traffic signals with electronic controllers of varying age and functionality and operates the 46 state highway signals inside the 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.

### STORM DRAINAGE FUND CAPITAL PROJECTS

21. **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.
22. **Culvert Replacement, GRJM-21.5-G.95 - \$260,000** – Recent inspection has found advanced corrosion of the existing 54-inch culvert that carries 21 1/2 Road over Pritchard Wash. This project replaces the existing 54-inch culvert with a new 60-inch pipe and reinforced concrete headwalls and wingwalls with a design life of 75 years.
23. **Pioneer Meadows Drainage Improvements, \$250,000 (Partnership with Mesa County & GVDD)** – Mesa County began the reconstruction of E Road between 31 and 32 Road in 2020 and requested the City to participate in the storm drainage infrastructure that will benefit not only the new road but also provide a stormwater outfall to the proposed Pioneer Meadows Subdivision which is within City limits. Per the Memorandum of Understanding with Mesa County, the City's payment for the work is proposed in 2021.

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### TRANSPORTATION CAPACITY FUND CAPITAL PROJECTS

#### TRANSPORTATION CAPACITY

24. **28 ¼ Road (Patterson to Hawthorne), \$390,000** – 28 Road and Patterson has been the site of many accidents and with increasing traffic on Patterson Road the intersection is becoming more challenging for motorists turning left from southbound 28 Road. This project will extend 28 ¼ Road 600 feet north to Hawthorne Ave providing Grand View and Spring Valley subdivisions access to the 28 ¼ Rd signal for safer left turns onto Patterson. The alignment will follow the Matchett Park Master Plan.
25. **Broadway at Reed Mesa Left Turn Lane \$400,000 (Mesa County \$75K, Magnus Ct Developer \$75K)** – 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 2021 so as to avoid school. As the turn lane is benefits existing subdivisions, Mesa County is contributing \$75k for the project. The developer is participating \$75k in addition to payment of transportation impact fees
26. **G Road & 24 Road Intersection Improvements, \$2.65 million** – With recent growth along both the 24 Road and G Road corridors, this intersection has started to experience long delays during peak hours of the day. These intersection improvements will add capacity to the intersection thereby minimizing motorist delays. This project will be constructed with the 24 Road Widening and G Road from 23 ½ Rd to 24 ½ Rd improvements.
27. **G Road & 26 1/2 Road Intersection improvements \$100,000 (\$1.5M Total)** – This intersection has continued to experience growth with more subdivisions approved in the last few years. This improvement is necessary to add capacity to the intersection thereby minimizing motorists' delays. Due to the safety benefits, a roundabout is proposed similar to those already constructed at 24 1/2 Rd and 25 Rd intersections.
28. **I-70 Interchange 1601 and Environmental Assessment (City Share), \$400,000 (\$400K in 2022)** – In 2019 the City and County partnered with Mesa County on a Planning and Environmental Linkages (PEL) that is 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 will require an estimated \$1.6 million that will again be split evenly with Mesa County over 2021 and 2022.
29. **Monument Road Left Turn Lane at Frog Pond Subdivision, \$150,000** – This project will add a center left turn lane into the new subdivision located at 2501 Monument Road.
30. **Tour of the Moon/S. Broadway Improvements, \$100,000** – 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 S. Broadway to improve safety for motorists and bicyclists.

#### ROADWAY EXPANSION PROJECTS

31. **24 Road and Riverside Parkway Interchange, \$300,000 (\$6.5M Total)** – *2019 Ballot Measure 2A project.* Intersection improvements are proposed to improve circulation and make interchange more intuitive. Project also constructs bike path connecting Riverfront Trail to the Mall and on to Canyon View Park.
32. **24 Road Widening, Patterson to I-70, \$7.7M (\$8M Total)** – *2019 Ballot Measure 2A project.* The existing was originally constructed as a three-lane facility in 1999 with expansion planned to the west side. The road is nearing capacity with new development in the area such as the Medical Office Building / Community Hospital as well as Caprock Academy ½ mile to the east. Improvements will start just north of Patterson to the I-70 Interchange.

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33. **24 1/2 Road, Patterson to G 1/4 Road, \$250,000 (\$6M Total)** – 2019 Ballot Measure 2A project. 24 ½ Road will be widened to a three lane “collector” including center turn lane, curb, gutter, sidewalks, and streetlights from Patterson Rd to G ¼ Road.
34. **26 1/2 Road and I-70 Pedestrian Bridge, \$100,000 (\$13.1M Total)** – 2019 Ballot Measure 2A project. 26 ½ Road will be widened to a three lane “collector” including center turn lane, curb, gutter, sidewalks, and streetlights from Horizon Drive to Summer Hill Way. A pedestrian bridge is proposed over I-70.
35. **D 1/2 Road, 29 to 30 Road, \$100,000 (\$3.5M Total)** – 2019 Ballot Measure 2A project. D ½ Road will be widened to a three lane “collector” including center turn lane, curb, gutter, sidewalk, and streetlights from 29 ¼ Road to 30 Road providing safer routes for kids to get to school at Pear Park Elementary.
36. **F ½ Road Parkway, Market to Patterson \$2.2M, (\$17M Total)** – 2019 Ballot Measure 2A project. The creation of the F ½ Road 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.
37. **F ½ Road, 30 Road to Persigo Boundary, \$600,000 (\$3.5M Total)** – 2019 Ballot Measure 2A project. F ½ Road will be widened to a three lane “collector” 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 school.
38. **G Road, 23 ½ Road to 24 ½ Road, \$3.95M (\$4.2M Total)** – 2019 Ballot Measure 2A project. This stretch of G Road is experiencing growth with the Medical Office Building/Community Hospital on the west and Caprock Academy on the east. This project will tie into the proposed 24 Road improvements as well as the 24 ½ Road improvements that are also part of Ballot Initiative 2A. A full collector section with curb, gutter, sidewalk, bike lanes, center turn lane, and streetlights is proposed.
39. **Horizon at G Road and 27 ½ Road, \$250,000 (\$4M Total) (Highway Safety Improvement Funded \$1.5M)** – 2019 Ballot Measure 2A project. The Horizon Drive & 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.
40. **Patterson Capacity Improvements (5 intersections), \$280,000 (\$980,000 Total)** – 2019 Ballot Measure 2A 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 in order 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 ¼ Rd eastbound to south bound, 29 Road eastbound to southbound, 29 Road southbound to westbound.

### COMMUNICATIONS CENTER FUND CAPITAL PROJECTS

41. **Logging Recorder, \$50,000** – The logging recorder is a system with redundant servers and an application used by the Communication Center staff. This system records all of the 911 and administrative telephone calls for the Communications Center; as well as telephone calls patrol officers, Police Service Technicians and Sergeants handle. This project will allow for updates needed to the Logging Recorder for the ESInet migration.

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42. **Next Gen 9-1-1, \$30,000** – As CenturyLink builds out the Emergency Services Network (ESINET), firewalls and routers will be needed in the Communications Center to provide IP connectivity and security to the emergency network.
43. **800 MHz Capital Improvements, \$70,000 (\$70K planned for 2022)** – Capital improvements for the 800MHz radio infrastructure. This will cover those capital improvements or emergency repairs for the 800MHz radio infrastructure.
44. **Radio Site Gateways and Switches, \$50,000** – This is to replace the Communications Center Routers and switches outside of the state DTR Network equipment required for the Motorola upgrade. We are transitioning the Microwave from older telephony T1 based microwave to IP based microwave which requires upgrading the monitoring system and equipment that is used to tie into the sites outside of the DTR Network. This equipment carries the camera feeds from the sites, the alarm and equipment monitoring for doors, power, and Generator alarms, etc. This infrastructure also carries the Harris Corporation (FAA) Traffic.
45. **Microwave Replacement at Radio Sites, \$150,000 (\$150K planned for 2022)** – The microwave units at several radio sites are more than 10 years old and need to be replaced to remain compatible with the 800 MHz statewide network. It is also to provide new functionality and capacity in preparation for building a backup 911 network that will connect to other Communication Centers.
46. **Large Mobile Communications Vehicle Technology Upgrades, \$100,000** – This is to replace the core of the technologies in the IDT truck, as we received them in 2007 when we took delivery of the truck. This includes the replacement of the phone system, satellite internet dish, and tracking system, cell repeaters, weather station equipment, and 17 Mobile Radios.
47. **Planned Radio Site Upgrades, \$100,000** – This is for the scheduled Motorola hardware replacements for the State DTR system in preparation for the statewide 2022 Motorola Upgrade. This upgrade replaces the DTR S2500 site routers and equipment installed in 2010-2012 at the Communications Center and the remaining DTR sites. This equipment is what ties our Communications Center and our sites into the State DTR network.
48. **Communications Center Remodel, \$100,000** – This project will allow for the remodel of the Communications Center to provide workspace for three call-taker positions as well as for future planned growth.
49. **Radio Tech Side-by-Side Replacement, \$30,000** – This is to replace the Radio Technician side-by-side, purchased in 2013. The side-by-side is utilized in site maintenance and conditions; a truck or normal vehicle will not make it to the site. This often includes the use of a track system on the side-by-side. The Current side-by-side has a transmission failure due to the excessive wear and tear and strain that the track system places on the engine and transmission.

### ENTERPRISE FUNDS CAPITAL PROJECTS

#### WATER FUND

50. **Water Line Replacements, \$1,288,000** – 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 in excess of 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. Areas identified for replacement in 2021 include: about 3 miles of cast iron lines from 15th to 28th Streets between Orchard and Bunting, about 1,400 feet of cast iron lines in the Riverside neighborhood on Chuluota and Rockaway Avenues between Fairview and Hale Avenues, 600 feet of cast iron on Cherry Lane north of Unaweep Avenue, about 1,000 feet of asbestos cement line on Chipeta between 10th and 12th Street to eliminate lead service lines and to loop the line to improve water quality, about 1200 feet of asbestos cement line on White Avenue between 9th to 12th Street to eliminate lead service lines, and a water main extension to increase capacity to the Dos Rios development.

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- 51. Flow Line Replacements, \$8.45M** – These funds will be used for water line and infrastructure replacements in the raw water supply system. The majority of the lines to be replaced are 20" to 24" ductile iron or steel lines that have been in service in excess of 50 years and have a recent history of breaks. The project includes replacing the Purdy Mesa flowline replacement (6.5 miles), a pressure control tank above Sullivan Draw, about 2 miles of Kannah Creek flowline on Anderson Ranch, and the backwash line at the Kannah Creek Water Treatment Plant. In addition, a condition assessment inspection of 7 miles of the lower Kannah Creek flowline will be performed. Funding for this project includes \$7M in additional debt through the low-interest Colorado Water Conservation Board (CWCB) Water Loan Program.
- 52. Kannah Creek Water Distribution System Improvements \$50,000** – These funds will be used to perform modeling and prepare engineering design plans for improvements to the Kannah Creek water distribution system.
- 53. Water Treatment Plant Modifications, \$60,000** – These funds are used for replacement of equipment and upgrades at the water treatment plant. In 2022, the third phase of the Supervisory Control and Data Acquisition (SCADA) system upgrade project will be completed. The upgraded SCADA system will allow for a computer interface between all processes at the plant and also incorporate watershed and distribution system monitoring. Also included in this project is replacing fluoridation equipment and pipe gallery valves. A grant of \$5,000 is anticipated from CDPHE for the fluoridation equipment.
- 54. Grand Mesa Reservoir Improvements, \$50,000** – These funds will be utilized to address minor improvements at the City's reservoirs on the Grand Mesa recommended by the State Dam Safety Engineer as a result of annual inspections.
- 55. Carson Lake Dam Rehabilitation, \$3,000,000** – Rehabilitation of Hogchute Reservoir (aka Carson Lake) will include spillway improvements, replacement of outlet works, and an early warning system. This reservoir was reclassified as a high hazard dam in 2015 due to increased development downstream. Although the reservoir has been deemed safe and does not have a capacity restriction placed on it, there are requisite modifications needed as a result of the new classification. Funding for this project includes \$3M in additional debt through the low-interest Colorado Water Conservation Board (CWCB) Water Loan Program.
- 56. Water Meter Replacement, \$850,000 (\$150K BOR Grant)** – There are 9,300 water meters in the City's water system. The City began replacing the manual meters with radio read meters that allow the data on each meter to be transmitted to a data base through a radio frequency, which significantly reduces the labor required to obtain meter readings on a monthly basis. 2021 funding will complete replacement of remaining manual read meters and installation of an advanced metering infrastructure (AMI). Funding includes \$150K in grant funding from the Bureau of Reclamation received in 2020 (\$300K total grant).
- 57. Ranch Improvements, \$50,000** – This funding will be used to develop a sustainable agriculture plan for the Hallenbeck Ranch as well as miscellaneous maintenance projects.
- 58. Lead Water Line Replacements, \$100,000 (CDBG Funded \$20K)** – Funding will be utilized to continue a lead service line replacement program over the next 5-years. This program includes replacement of the municipal service line as well private service lines for properties that qualify for Community Development Block Grant (CDBG) funding.

### RIDGES IRRIGATION FUND

- 59. Distribution System Replacement, \$30,000 (\$30K planned for 2022)** – This will continue an incremental replacement plan of the distribution system at the Ridges Subdivision.

### JOINT SEWER OPERATIONS FUND

- 60. Sewer Line Replacement/Rehabilitation, \$2,000,000** – 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

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miles of pipe of which approximately 200 miles is scheduled for replacement over the next 30 years. This replacement schedule was recommended in the 2015 independent rate study and approved by the Persigo Board.

- 61. Sewer Improvement Districts, \$50,000** – 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 1,500 properties that remain on septic systems within the Persigo 201 sewer boundary. The program has not yet achieved the goal of eliminating septic systems and making available connection to the sewer system to all properties within the service area. One small sewer improvement district was completed in 2020. Previously, the last sewer improvement district was completed in 2010. Recommended funding for 2021 is to revitalize the incentive program by targeting completion of existing and new sewer improvement districts over the next 10 years.
- 62. Lift Station Elimination/Rehabilitation, \$4,240,000** – The 2021 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. Funding planned for 2022 and beyond are focused on the continued implementation of predictive and preventative maintenance programs for the 26 lift stations in the collection system.
- 63. Collection System Equipment, \$50,000** – These funds are recommended to purchase specialty equipment needed to efficiently operate and maintain the sewer collection system.
- 64. Wastewater Treatment Plant Rehabilitation/Expansion Projects, \$205,000** – This expenditure will be used for preliminary engineering of wastewater treatment units that will require rehabilitation to address aging infrastructure or operational deficiencies over the next 5 years. Since the plant is currently at 80 percent capacity and will require expansion in the next 8 years, design plans will consider future expansion needs in selection of the rehabilitation or replacement option. Infrastructure assets that will be addressed in the next 5 years include aeration, solids dewatering, ultraviolet disinfection, solids/grit screening, and the electrical conduit system.
- 65. Wastewater Treatment Plant Improvements and Asset Replacement, \$3,800,000** – These expenditures are associated with wastewater treatment plant improvements and replacement of aging infrastructure. The funds planned for 2021 will be used for rehabilitation of the Flow Equalization Basin and the Anaerobic Digester panels as well as rehabilitation/replacement projects.
- 66. Odor Control Improvements, \$1,600,000** – Design of odor control improvements for the wastewater treatment plant and the sewer collection system will be completed in 2020. The recommended funds for 2021 are for construction of odor control improvements.
- 67. Tiara Rado Force Main, \$5,000,000** – A design of a new force main for the Tiara Rado Lift Station will be completed in 2020. Recommended 2021 funds are to construct the parallel force main from the Tiara Rado lift station, under the Colorado River, to the River Road Interceptor east of the Persigo Wastewater Treatment Plant. The existing force main from the lift station is ductile iron and was installed during the 1980's. A section of this pipe has failed in the past and has been repaired.