APPENDIX E - CAPITAL IMPROVEMENT PLAN

| Project Identifier | Priority 1 Improvements | Opinion of Probable Cost | Percent SDC Eligible* | SDC Am | ount SDC Comment |
|--|---|---|---|--|---|
| 1Δ | Silver Creek Pump Station - New Intake and Transmission Line Improvements | \$ 3,500,000 | 56% | \$ 10 | 960,000 Assumes 100% of pipeline cost and the percent increase in screen capacity attributed to growth |
| 17 | | \$ 3,500,000 | 5070 | Υ <u></u> , | Storage volume primarily needed for growth (existing deficit is only 0.03 MG). However, storage does |
| | | | | | improve fire protection and redundancy to overall system. Booster pump primarily for backup to Edison |
| 1B | Abigua Intake - Dam Removal and new intake | \$ 8,200,000 | 56% | ¢ л | 592,000 Booster. |
| 10 | | \$ 0,200,000 | 5676 | | Upgrade provides backup to existing zone, mutually benefits existing and future users. Additional PRV |
| 10 | Backwash - Backwash Study and NPDES Permit for WTP | \$ 25,000 | 0% | \$ | - supply becomes more critical with growth. |
| 10 1D | New Water Treatment Plant - 4.0 MGD Package Plant | \$ 5,800,000 | 56% | \$ 33 | 248,000 New water treatment which doubles the existing capacity. |
| 10 | | \$ 3,000,000 | 5676 | φ 3,4 | Additional 0.93 MG projected need for 2050 planning period. Allocation beyond planning period is not SDC |
| 1F | New 1 MG Storage Tank and Booster Pump Station - Edison Road Property | \$ 2,387,000 | 93% | \$ 23 | 219,910 eligible. |
| 1F | 2nd Supply to Anderson PRV Zone | \$ 153,000 | 0% | \$ \$ | - |
| 1. | | ÷ 155,000 | 070 | ې ۲ | Upgrade provides backup to existing zone, trasmission also recommended with new tank, mutually |
| 1G | Transmission to West Plateau Service Area | \$ 702,000 | 30% | د ، | 210,600 benefits existing and future users |
| 10 1H | Silver Creek Plaza Area Improvements | \$ 694,000 | 0% | ب د | Primarily addresses existing fire protection deficiencies. |
| 10 | | \$ 094,000 | 078 | Ş | Primarily addresses existing me protection denciencies. Primarily addresses redundant supply to school. Off-site piping facilitate adjacent to undeveloped parcels |
| 11 | Western Avenue Improvements | \$ 286,000 | 0% | ć | not SDC eligible, but could be recuperated at time of development. |
| 11 | Breyonna Way Loop | \$ 58,000 | 0% | ې د | Primarily addresses redundant supply and looping needs. |
| 11 | | | 0% | ې د | Primarily addresses redundant supply and looping needs. Primarily addresses inadequate fire protection to existing commercial areas. |
| 1K | N. 3rd Street Improvements | \$ 223,000 | | ې د | |
| 1L | Washington and Lincoln Street Improvements | \$ 467,000 | 0% | Ş | - Allows abandonment of existing lines. |
| 1M | Kent Street and Sweden Circle | \$ 35,000 | 0% | Ş | - Loops existing line. |
| | | A 207.000 | 201 | | Needed for redundant supply source. Off-site piping facilitate adjacent to undeveloped parcels not SDC |
| 1N | Woodland Drive NE and Oregon Garden/Relocate backflow prevention on Oregon Garden | \$ 287,000 | 0% | Ş | - eligible, but could be recuperated at time of development. |
| | | | | | Replaces existing undersized lines. However, large diameter pipelines are intended for future transmission |
| 10 | Hobart Road Improvements | \$ 246,000 | 23% | Ş | 56,580 and will accommodate growth adjacent to pipeline. |
| | | | | | |
| 1P | New High Level Pumphouse | \$ 898,000 | 68% | - | 510,640 Some of this work may be done with new WTP |
| | Total (Priority 1) | \$ 23,961,000 | | Ş 12,8 | 397,730 |
| Project Identifier | Priority 2 Improvements | Opinion of Probable Cost | Percent SDC Eligible | | SDC Comment |
| 2A | | | ¥ | | |
| | Abigua Intake Line - Replace 1.110' of 14" steel transmission line | \$ 705,000 | 25% | \$ | 176,250 [Replaces existing undersized line. May be done with new WTP project. |
| 2B | Abiqua Intake Line - Replace 1,110' of 14" steel transmission line Cowing to Smith Improvements | \$ 705,000 \$ 588,000 | 25% 0% | \$: \$ | 176,250 Replaces existing undersized line. May be done with new WTP project. |
| 2B 2C | Cowing to Smith Improvements | \$ 588,000 | 0% | \$: \$ \$ | - Primarily intended to replace existing undersized lines. |
| 2C | Cowing to Smith Improvements Fiske Street Improvements | \$ 588,000 \$ 292,000 | 0% 0% | \$: \$ \$ | Primarily intended to replace existing undersized lines. Replaces existing lines. |
| | Cowing to Smith Improvements Fiske Street Improvements Industry Way Improvements | \$ 588,000 \$ 292,000 \$ 358,000 | 0% 0% 0% | \$ \$ \$ | Primarily intended to replace existing undersized lines. Replaces existing lines. Provides fire protection to existing structures. |
| 2C | Cowing to Smith Improvements Fiske Street Improvements | \$ 588,000 \$ 292,000 | 0% 0% | \$ \$ \$ | Primarily intended to replace existing undersized lines. Replaces existing lines. Provides fire protection to existing structures. 233,740 Includes pipeline upsize costs only. |
| 2C 2D 2E | Cowing to Smith Improvements Fiske Street Improvements Industry Way Improvements Pioneer and Evans Valley Improvements | \$ 588,000 \$ 292,000 \$ 358,000 \$ 899,000 | 0% 0% 0% 26% | \$ \$ \$ \$ 2 | Primarily intended to replace existing undersized lines. Replaces existing lines. Provides fire protection to existing structures. 233,740 Includes pipeline upsize costs only. Primarily benefits existing users with improved fire protection and pressures. Improvements also needed |
| 2C 2D 2E 2F | Cowing to Smith Improvements Fiske Street Improvements Industry Way Improvements Pioneer and Evans Valley Improvements Oak Street Improvements | \$ 588,000 \$ 292,000 \$ 358,000 \$ 899,000 \$ 553,000 | 0% 0% 0% 26% 40% | \$ \$ \$ \$ \$ | Primarily intended to replace existing undersized lines. Replaces existing lines. Provides fire protection to existing structures. 233,740 Includes pipeline upsize costs only. Primarily benefits existing users with improved fire protection and pressures. Improvements also needed 221,200 for looping and supply for new growth and expansion of pressure zones. |
| 2C 2D 2E 2F 2G | Cowing to Smith Improvements Fiske Street Improvements Industry Way Improvements Pioneer and Evans Valley Improvements Oak Street Improvements Industrial Area Improvements | \$ 588,000 \$ 292,000 \$ 358,000 \$ 899,000 \$ 553,000 \$ 480,000 | 0% 0% 0% 26% 40% 23% | \$ \$ \$ \$ \$ | Primarily intended to replace existing undersized lines. Replaces existing lines. Provides fire protection to existing structures. 233,740 Includes pipeline upsize costs only. Primarily benefits existing users with improved fire protection and pressures. Improvements also needed 221,200 for looping and supply for new growth and expansion of pressure zones. 110,400 Upsize costs allocated to SDC. Project will probably be developer funded. |
| 2C 2D 2E 2F | Cowing to Smith Improvements Fiske Street Improvements Industry Way Improvements Pioneer and Evans Valley Improvements Oak Street Improvements Industrial Area Improvements Main and 5th Improvements | \$ 588,000 \$ 292,000 \$ 358,000 \$ 899,000 \$ 553,000 \$ 480,000 \$ 641,000 | 0% 0% 0% 26% 40% 23% 0% | \$ \$ \$ \$ \$ | Primarily intended to replace existing undersized lines. Replaces existing lines. Provides fire protection to existing structures. 233,740 Includes pipeline upsize costs only. Primarily benefits existing users with improved fire protection and pressures. Improvements also needed for looping and supply for new growth and expansion of pressure zones. 110,400 Upsize costs allocated to SDC. Project will probably be developer funded. Replaces existing small diameter pipelines. |
| 2C 2D 2E 2F 2G | Cowing to Smith Improvements Fiske Street Improvements Industry Way Improvements Pioneer and Evans Valley Improvements Oak Street Improvements Industrial Area Improvements Main and 5th Improvements Well and Orchard Improvements | \$ 588,000 \$ 292,000 \$ 358,000 \$ 899,000 \$ 553,000 \$ 480,000 \$ 641,000 \$ 286,000 | 0% 0% 26% 40% 23% 0% 0% | \$ \$ \$ \$ \$ | Primarily intended to replace existing undersized lines. Replaces existing lines. Provides fire protection to existing structures. 233,740 Includes pipeline upsize costs only. Primarily benefits existing users with improved fire protection and pressures. Improvements also needed 221,200 for looping and supply for new growth and expansion of pressure zones. 110,400 Upsize costs allocated to SDC. Project will probably be developer funded. |
| 2C 2D 2E 2F 2G 2H 2I 2J | Cowing to Smith Improvements Fiske Street Improvements Industry Way Improvements Pioneer and Evans Valley Improvements Oak Street Improvements Industrial Area Improvements Main and 5th Improvements Well and Orchard Improvements Extend Service to Future Park | \$ 588,000 \$ 292,000 \$ 358,000 \$ 358,000 \$ 899,000 \$ 553,000 \$ 553,000 \$ 641,000 \$ 286,000 \$ 34,000 | 0% 0% 0% 26% 40% 23% 0% 0% 0% | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | Primarily intended to replace existing undersized lines. Replaces existing lines. Provides fire protection to existing structures. 233,740 Includes pipeline upsize costs only. Primarily benefits existing users with improved fire protection and pressures. Improvements also needed 221,200 for looping and supply for new growth and expansion of pressure zones. 110,400 Upsize costs allocated to SDC. Project will probably be developer funded. Replaces existing small diameter pipelines. Improves local fire protection. |
| 2C 2D 2E 2F 2G | Cowing to Smith Improvements Fiske Street Improvements Industry Way Improvements Pioneer and Evans Valley Improvements Oak Street Improvements Industrial Area Improvements Main and 5th Improvements Well and Orchard Improvements Extend Service to Future Park Future 1 MG Tank | \$ 588,000 \$ 292,000 \$ 358,000 \$ 358,000 \$ 899,000 \$ 553,000 \$ 480,000 \$ 641,000 \$ 286,000 \$ 34,000 \$ 1,634,000 | 0% 0% 0% 26% 40% 23% 0% 0% 0% 0% 0% 100% | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | Primarily intended to replace existing undersized lines. Replaces existing lines. Provides fire protection to existing structures. 233,740 Includes pipeline upsize costs only. Primarily benefits existing users with improved fire protection and pressures. Improvements also needed 221,200 for looping and supply for new growth and expansion of pressure zones. 110,400 Upsize costs allocated to SDC. Project will probably be developer funded. Replaces existing small diameter pipelines. Improves local fire protection. 534,000 Timing and location dependent on future growth. |
| 2C 2D 2E 2F 2G 2H 2I 2J | Cowing to Smith Improvements Fiske Street Improvements Industry Way Improvements Pioneer and Evans Valley Improvements Oak Street Improvements Industrial Area Improvements Main and 5th Improvements Well and Orchard Improvements Extend Service to Future Park | \$ 588,000 \$ 292,000 \$ 358,000 \$ 358,000 \$ 899,000 \$ 553,000 \$ 553,000 \$ 641,000 \$ 286,000 \$ 34,000 | 0% 0% 0% 26% 40% 23% 0% 0% 0% | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | Primarily intended to replace existing undersized lines. Replaces existing lines. Provides fire protection to existing structures. 233,740 Includes pipeline upsize costs only. Primarily benefits existing users with improved fire protection and pressures. Improvements also needed 221,200 for looping and supply for new growth and expansion of pressure zones. 110,400 Upsize costs allocated to SDC. Project will probably be developer funded. Replaces existing small diameter pipelines. Improves local fire protection. 534,000 Timing and location dependent on future growth. Primarily addresses existing fire protection deficiencies. |
| 2C 2D 2E 2F 2G 2H 2I 2J | Cowing to Smith Improvements Fiske Street Improvements Industry Way Improvements Pioneer and Evans Valley Improvements Oak Street Improvements Industrial Area Improvements Main and 5th Improvements Well and Orchard Improvements Extend Service to Future Park Future 1 MG Tank | \$ 588,000 \$ 292,000 \$ 358,000 \$ 358,000 \$ 899,000 \$ 553,000 \$ 480,000 \$ 641,000 \$ 286,000 \$ 34,000 \$ 1,634,000 | 0% 0% 0% 26% 40% 23% 0% 0% 0% 0% 0% 100% | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | Primarily intended to replace existing undersized lines. Replaces existing lines. Provides fire protection to existing structures. 233,740 Includes pipeline upsize costs only. Primarily benefits existing users with improved fire protection and pressures. Improvements also needed for looping and supply for new growth and expansion of pressure zones. 110,400 Upsize costs allocated to SDC. Project will probably be developer funded. Replaces existing small diameter pipelines. Improves local fire protection. Frimarily addresses existing fire protection deficiencies. Replaces existing line, and provides improved transmission. Transmission improvements needed to |
| 2C 2D 2E 2F 2G 2H 2I 2J 2K 2L | Cowing to Smith Improvements Fiske Street Improvements Industry Way Improvements Pioneer and Evans Valley Improvements Oak Street Improvements Industrial Area Improvements Main and 5th Improvements Well and Orchard Improvements Extend Service to Future Park Future 1 MG Tank Lewis Street Improvements | \$ 588,000 \$ 292,000 \$ 358,000 \$ 358,000 \$ 899,000 \$ 553,000 \$ 553,000 \$ 480,000 \$ 641,000 \$ 286,000 \$ 34,000 \$ 390,000 | 0% 0% 0% 26% 40% 23% 0% 0% 0% 0% 100% 0% | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | Primarily intended to replace existing undersized lines. Replaces existing lines. Provides fire protection to existing structures. 233,740 Includes pipeline upsize costs only. Primarily benefits existing users with improved fire protection and pressures. Improvements also needed 221,200 for looping and supply for new growth and expansion of pressure zones. 110,400 Upsize costs allocated to SDC. Project will probably be developer funded. Replaces existing small diameter pipelines. Improves local fire protection. 534,000 Timing and location dependent on future growth. Primarily addresses existing fire protection deficiencies. Replaces existing line, and provides improved transmission. Transmission improvements needed to accommodates development to south. If required for growth, only upsize costs are eligible for SDC. Keller |
| 2C 2D 2E 2F 2G 2H 2I 2J | Cowing to Smith Improvements Fiske Street Improvements Industry Way Improvements Pioneer and Evans Valley Improvements Oak Street Improvements Industrial Area Improvements Main and 5th Improvements Well and Orchard Improvements Extend Service to Future Park Future 1 MG Tank | \$ 588,000 \$ 292,000 \$ 358,000 \$ 358,000 \$ 899,000 \$ 553,000 \$ 480,000 \$ 641,000 \$ 286,000 \$ 34,000 \$ 1,634,000 | 0% 0% 0% 26% 40% 23% 0% 0% 0% 0% 0% 100% | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | Primarily intended to replace existing undersized lines. Replaces existing lines. Provides fire protection to existing structures. 233,740 Includes pipeline upsize costs only. Primarily benefits existing users with improved fire protection and pressures. Improvements also needed 221,200 for looping and supply for new growth and expansion of pressure zones. 110,400 Upsize costs allocated to SDC. Project will probably be developer funded. Replaces existing small diameter pipelines. Improves local fire protection. Improves local fire protection. Primarily addresses existing fire protection deficiencies. Replaces existing line, and provides improved transmission. Transmission improvements needed to accommodates development to south. If required for growth, only upsize costs are eligible for SDC. Keller |
| 2C 2D 2E 2F 2G 2H 2I 2J 2K 2L 2M | Cowing to Smith Improvements Fiske Street Improvements Industry Way Improvements Pioneer and Evans Valley Improvements Oak Street Improvements Industrial Area Improvements Main and 5th Improvements Well and Orchard Improvements Extend Service to Future Park Future 1 MG Tank Lewis Street Improvements Water Street Improvements | \$ 588,000 \$ 292,000 \$ 358,000 \$ 358,000 \$ 899,000 \$ 553,000 \$ 553,000 \$ 480,000 \$ 641,000 \$ 286,000 \$ 34,000 \$ 390,000 \$ 1,634,000 \$ 1,110,000 | 0% 0% 0% 26% 40% 23% 0% 0% 0% 100% 0% 100% 0% | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | Primarily intended to replace existing undersized lines. Replaces existing lines. Provides fire protection to existing structures. 233,740 Includes pipeline upsize costs only. Primarily benefits existing users with improved fire protection and pressures. Improvements also needed 221,200 for looping and supply for new growth and expansion of pressure zones. 110,400 Upsize costs allocated to SDC. Project will probably be developer funded. Replaces existing small diameter pipelines. Improves local fire protection. Frimarily addresses existing fire protection deficiencies. Replaces existing line, and provides improved transmission. Transmission improvements needed to accommodates development to south. If required for growth, only upsize costs are eligible for SDC. Keller 155,400 Associates recommends coordinating with development need. |
| 2C 2D 2E 2F 2G 2H 2I 2J 2J 2K 2L 2M 2N | Cowing to Smith Improvements Fiske Street Improvements Industry Way Improvements Pioneer and Evans Valley Improvements Oak Street Improvements Industrial Area Improvements Main and 5th Improvements Well and Orchard Improvements Extend Service to Future Park Future 1 MG Tank Lewis Street Improvements Water Street Improvements | \$ 588,000 \$ 292,000 \$ 358,000 \$ 358,000 \$ 899,000 \$ 553,000 \$ 553,000 \$ 553,000 \$ 641,000 \$ 286,000 \$ 34,000 \$ 1,634,000 \$ 390,000 \$ 1,710,000 \$ 178,000 | 0% 0% 0% 26% 40% 23% 0% 0% 0% 0% 100% 0% 100% 0% | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | Primarily intended to replace existing undersized lines. Replaces existing lines. Provides fire protection to existing structures. 233,740 Includes pipeline upsize costs only. Primarily benefits existing users with improved fire protection and pressures. Improvements also needed 221,200 for looping and supply for new growth and expansion of pressure zones. 110,400 Upsize costs allocated to SDC. Project will probably be developer funded. Replaces existing small diameter pipelines. Improves local fire protection. Primarily addresses existing fire protection deficiencies. Replaces existing line, and provides improved transmission. Transmission improvements needed to accommodates development to south. If required for growth, only upsize costs are eligible for SDC. Keller 155,400 Associates recommends coordinating with development need. Primarily needed to improve local fire protection. However, upsizing of new pipeline provides some 26,700 benefit for transmission for new growth. |
| 2C 2D 2E 2F 2G 2H 2I 2J 2K 2L 2M | Cowing to Smith Improvements Fiske Street Improvements Industry Way Improvements Pioneer and Evans Valley Improvements Oak Street Improvements Industrial Area Improvements Main and 5th Improvements Well and Orchard Improvements Extend Service to Future Park Future 1 MG Tank Lewis Street Improvements Water Street Improvements Pine Street Improvements Keene and Ash Street Improvements | \$ 588,000 \$ 292,000 \$ 358,000 \$ 358,000 \$ 899,000 \$ 553,000 \$ 553,000 \$ 480,000 \$ 641,000 \$ 286,000 \$ 34,000 \$ 390,000 \$ 1,634,000 \$ 390,000 \$ 1,78,000 \$ 507,000 | 0% 0% 0% 26% 40% 23% 0% 0% 0% 0% 100% 0% 14% 14% | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | Primarily intended to replace existing undersized lines. Replaces existing lines. Provides fire protection to existing structures. 233,740 Includes pipeline upsize costs only. Primarily benefits existing users with improved fire protection and pressures. Improvements also needed 221,200 for looping and supply for new growth and expansion of pressure zones. 110,400 Upsize costs allocated to SDC. Project will probably be developer funded. Replaces existing small diameter pipelines. Improves local fire protection. Improves local fire protection. Primarily addresses existing fire protection deficiencies. Replaces existing line, and provides improved transmission. Transmission improvements needed to accommodates development to south. If required for growth, only upsize costs are eligible for SDC. Keller 155,400 Associates recommends coordinating with development need. Primarily needed to improve local fire protection. However, upsizing of new pipeline provides some 26,700 benefit for transmission for new growth. Replaces existing older and undersized pipelines. |
| 2C 2D 2E 2F 2G 2H 2I 2J 2K 2L 2K 2L 2M | Cowing to Smith Improvements Fiske Street Improvements Industry Way Improvements Pioneer and Evans Valley Improvements Oak Street Improvements Industrial Area Improvements Main and 5th Improvements Well and Orchard Improvements Extend Service to Future Park Future 1 MG Tank Lewis Street Improvements Water Street Improvements | \$ 588,000 \$ 292,000 \$ 358,000 \$ 358,000 \$ 899,000 \$ 553,000 \$ 553,000 \$ 553,000 \$ 641,000 \$ 286,000 \$ 34,000 \$ 1,634,000 \$ 390,000 \$ 1,710,000 \$ 178,000 | 0% 0% 0% 26% 40% 23% 0% 0% 0% 0% 100% 0% 100% 0% | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | Primarily intended to replace existing undersized lines. Replaces existing lines. Provides fire protection to existing structures. 233,740 Includes pipeline upsize costs only. Primarily benefits existing users with improved fire protection and pressures. Improvements also needed 221,200 for looping and supply for new growth and expansion of pressure zones. 110,400 Upsize costs allocated to SDC. Project will probably be developer funded. Replaces existing small diameter pipelines. Improves local fire protection. Frimarily addresses existing fire protection deficiencies. Replaces existing line, and provides improved transmission. Transmission improvements needed to accommodates development to south. If required for growth, only upsize costs are eligible for SDC. Keller 155,400 Associates recommends coordinating with development need. Primarily needed to improve local fire protection. However, upsizing of new pipeline provides some 26,700 benefit for transmission for new growth. |

| Project | Priority 3 Improvements | Opin | nion of Probable | Percent SDC | SDC Comment |
|------------|---|------|------------------|-------------|--|
| Identifier | Phoney 5 improvements | | Cost | Eligible | SDC comment |
| 3A | Setness St, Quarry Ave, and Lanham Lane | \$ | 1,432,000 | 7% | \$ 100,240 Replaces existing lines and provides looping. Pipe upsizing for growth. |
| 3B | Meridian Rd NE | \$ | 4,000 | 100% | \$ 4,000 Includes only upsize costs. |
| 3C | Commerce Court and Industry Way | \$ | 48,000 | 100% | \$ 48,000 Development funded. |
| | | | | | Future transmission improvement. Pipe upsize costs only. Probably best to wait until development |
| 3D | N. 1st Street from Jefferson Road to Hobart Road | \$ | 334,000 | 14% | \$ 46,760 installs. |
| 3E | Northwest 12-inch Loop (Hobart Road to Pine Street) | \$ | 149,000 | 100% | \$ 149,000 Includes only upsize costs. |
| | | | | | |
| 3F | Pine Street from April Ln to Airport Rd. | \$ | 739,000 | 15% | \$ 110,850 Primarily benefits local area which is largely developed, portion of pipeline upsize cost attributed to SDC. |
| 3G | West 12" line from Pine and April Ln, south to Railway Avenue | \$ | 73,000 | 100% | \$ 73,000 Includes only upsize costs. |
| 3H | Low Pressure Zone Loop from Westfield and Center westward and north to Railway Avenue | \$ | 61,000 | 100% | \$ 61,000 Includes only upsize costs. |
| 31 | 10" Connection from Safeway to Fire Department | \$ | 70,000 | 14% | \$ 9,800 Includes only upsize costs. |
| 3J | Transmission from New PRV to Anderson PRV Zone | \$ | 1,961,000 | 14% | \$ 274,540 Replaces undersized existing lines. Only upsize cost allocated to SDC. |
| ЗК | Cherry Street From Phelps to Welch | \$ | 79,000 | 0% | \$ - Improves looping of existing system. |
| 3L | James St from Western to Pine | \$ | 453,000 | 13% | \$ 58,890 Includes pipeline upsize cost. |
| 3M | Loop around old high school site | \$ | - | 100% | \$ - Development funded. |
| 3N | N. 2nd from C Street to TJ Lane | \$ | 638,000 | 4% | \$ 25,520 Includes pipeline upsize costs. |
| 30 | N. 1st from A to C and Front St from A to C | \$ | 205,000 | 0% | \$ - Improves existing fire protection. |
| 3P | N. 2nd from Main to B St | \$ | 311,000 | 0% | \$ - Improves existing fire protection. |
| | | | | | Mutual benefit. Improves transmission for new growth; improves fire protection . Pipe upsize cost |
| 3Q | Water St from Peach to Brown St, then on Brown from N Webb to Schlador | \$ | 1,912,000 | 16% | \$ 305,920 allocated to SDC. |
| 3R | Anderson PRV Zone Loop from Westfield and Center westward and northeast to Westfield and Main | \$ | 77,000 | 100% | \$ 77,000 Includes only upsize costs. |
| 3S | Future Pioneer Rd Alignment from Crestview Dr to Oak St | \$ | 70,000 | 100% | \$ 70,000 Includes only upsize costs. |
| ЗТ | Future Pioneer Rd Alignment from Skookum Dr and Eastview Lane to Evans Valley Rd | \$ | 54,000 | 100% | \$ 54,000 Includes only upsize costs. |
| | | | | | Provides high pressure service to existing and future users near tank site. Likely to be development drive |
| 3U | Eastview from Tillicum to Storage Reservoir | \$ | 400,000 | 0% | \$ - No pipe upsizing. |
| 3V | Booster and eastward extension from Eastview Dr. to Future Eastview Booster Service Area | \$ | 90,000 | 100% | \$ 90,000 Includes only upsize costs. |
| 3W | Hawk Dr and Ike Mooney Rd | \$ | 11,000 | 100% | \$ 11,000 Includes only upsize costs. |
| ЗХ | Extension into Silverton Mobile Home Estates | \$ | 333,000 | 0% | \$ Anticipated to be LID funded to serve existing development. |
| 3Y | Sunset Lane from Victor Point to Edison | \$ | - | 100% | \$ - Development funded. |
| 3Z | Connection from current High School site through mobile home park to Pine St | \$ | 222,000 | 0% | \$ - Anticipated to be LID funded to serve existing development. |
| ЗАА | Robinson St and Church St | \$ | 244,000 | 0% | \$ - Improves service and fire protection and local looping. |
| 3BB | Norway from Chadwick to Oak St | \$ | 156,000 | 0% | \$ - Improves service and fire protection and local looping. |
| 3CC | Kent Street from East Park to N. Ames St | \$ | 134,000 | 0% | \$ - Improves looping. May be best until development requires. |
| 3DD | Maple Street near Grant and N. Water | \$ | 178,000 | 0% | \$ - Replaces existing undersized lines. |
| | Total (Priority 3) | \$ | 10,438,000 | | \$ 1,569,520 |
| | TOTAL | \$ | 43,383,000 | | \$ 17,024,940 |

| ITEM | UNIT | UNIT PRICE |
|---|------|------------|
| Radio Read Meter and Box installed | EA | \$2,000 |
| PRV Station With Access Vault, Drainage and SCADA | EA | \$50,000 |
| Check Valve | EA | \$10,000 |
| Onsite Hypochlorite Generation System 15ppd | EA | \$65,000 |
| Backflow prevention units | EA | \$10,000 |
| | | |
| SCADA set up and integration | EA | \$40,000 |
| SCADA per site | EA | \$15,000 |
| All pipe material is PVC - | | |
| 8" Pipe - Installed with fittings and hydrants, trenching and backfill included | LF | \$80 |
| 10" Pipe - Installed with fittings and hydrants, trenching and backfill included | LF | \$90 |
| 12" Pipe - Installed with fittings and hydrants, trenching and backfill included | LF | \$100 |
| 14" Pipe - Installed with fittings and hydrants, trenching and backfill included | LF | \$120 |
| 16" Pipe - Installed with fittings and hydrants, trenching and backfill included | LF | \$140 |
| 24" Pipe - Installed with fittings, trenching and backfill included | LF | \$170 |
| | | |
| Upsize10" - difference between 8 and 10-inch | LF | \$10 |
| Upsize 12" - difference between 8 and 12-inch | LF | \$20 |
| | | |
| Reconnect water services (includes temp. above gound water service, new service to meter, excl. asph.) | EA | \$1,700 |
| Directional Bore for Services - Includes connection | EA | \$1,500 |
| Control Density Backfill - additional cost | LF | \$40 |
| 5ft width Pavement Repair (4-inches thick) | LF | \$50 |
| 10 ft width pavement Repair (6-inches thick) | LF | \$100 |
| Traffic Control | LF | \$5 |
| Full Gravel Road for Maintenance Access (12 ft width) | LF | \$100 |
| Rock Excavation | CY | \$185 |
| Slope stabalization | LF | \$75 |
| Mobilization - Percent of Item Cost Sum | % | 6% |
| Contingency - % of construction costs | % | 25% |
| Engineering and CMS - Percent of construction costs | % | 20% |
| Future Contingency | % | 35% |
| | | |
| | | |
| The cost estimate barein is based on our percention of current conditions at the project location. This estimate reflects our opinion | | |

The cost estimate herein is based on our perception of current conditions at the project location. This estimate reflects our opinion of probable costs at this time and is subject to change as the project design matures. City has no control over variances in the cost of labor, materials, equipment, services provided by others, contractor's methods of determining prices, competitive bidding or market conditions, practices or bidding strategies. City cannot and does not warrant or guarantee that proposals, bids, or actual construction costs will not vary from the cost presented herein.

| Project 1A - New Silver Creek Intake and 1,700 leet of 16 Pipeline | | | | | | | | | |
|--|------|------------------|-------------------------------|------------------|--|--|--|--|--|
| Item | Unit | Unit Price | Estimated Quantity | Item Cost | | | | | |
| 300' of 18" DI and 1,400' of 18" C900 Pipe | LF | \$355 | 1,700 | \$603,500 | | | | | |
| Intake Demolition | LS | \$30,000 | 1 | \$30,000 | | | | | |
| Intake Structure | LS | \$136,000 | 1 | \$136,000 | | | | | |
| Electrical including generator | LS | \$300,000 | 1 | \$300,000 | | | | | |
| Intake Earthwork | LS | \$286,000 | 1 | \$286,000 | | | | | |
| Fence and Gates | LS | \$10,000 | 1 | \$10,000 | | | | | |
| Valve Vault | LS | \$6,250 | 1 | \$6,250 | | | | | |
| Vertical Traveling Screen | LS | \$128,000 | 1 | \$128,000 | | | | | |
| Mechanical | LS | \$60,000 | 1 | \$60,000 | | | | | |
| Instrumentation | LS | \$13,000 | 1 | \$13,000 | | | | | |
| Controls | LS | \$77,000 | 1 | \$77,000 | | | | | |
| Pumps | EA | \$90,000 | 2 | \$180,000 | | | | | |
| Temporary Traffic Control | LS | \$30,000 | 1 | \$30,000 | | | | | |
| Temporary Erosion and Sediment Control | LS | \$30,000 | 1 | \$30,000 | | | | | |
| Rock Excavation | LS | \$5 <i>,</i> 000 | 1 | \$5 <i>,</i> 000 | | | | | |
| Temporary Intake, Pump, and Screen | LS | \$141,000 | 1 | \$141,000 | | | | | |
| Fish Exclusion and Work Area Isolation | LS | \$10,000 | 1 | \$10,000 | | | | | |
| PGE Allowance | LS | \$10,000 | 1 | \$10,000 | | | | | |
| Site Restoration | LS | \$25,000 | 1 | \$25,000 | | | | | |
| | | | Construction Subtotal: | \$2,080,750 | | | | | |
| | | | | | | | | | |
| Contractor Profit and Overhead | % | 10% | | \$208,075.00 | | | | | |
| Mobilization - Percent of Item Cost Sum | % | 6% | | \$124,845.00 | | | | | |
| Contingency - % of construction costs | % | 30% | | \$624,225 | | | | | |
| Engineering and CMS - % of construction costs | % | 22% | | \$457,765.00 | | | | | |
| | | | Project Total: | \$3,495,660 | | | | | |

Project 1A - New Silver Creek Intake and 1,700 feet of 18" Pipeline

| tom | | | | | | | | | |
|---|-------|-----------|------------------------|--------------|--|--|--|--|--|
| Item | Unit | | Estimated Quantity | Item Cost | | | | | |
| Package Treatment Plant | LS | \$950,000 | 1 | \$950,000 | | | | | |
| Freight | LS | \$50,000 | 1 | \$50,000 | | | | | |
| Railing -walkway | ft | \$100 | 150 | \$15,000 | | | | | |
| Grating - walkway | sq ft | \$150 | 750 | \$112,500 | | | | | |
| Painting basins onsite | sq ft | \$0 | 2,640 | \$0 | | | | | |
| 50,000 gallon backwash recovery tank | GAL | \$3 | 50,000 | \$150,000 | | | | | |
| Electrical | LS | \$125,000 | 1 | \$125,000 | | | | | |
| HVAC | LS | \$100,000 | 1 | \$100,000 | | | | | |
| Mechanical and Plumbing | LS | \$300,000 | 1 | \$300,000 | | | | | |
| New treatment building | SF | \$200 | 5,500 | \$1,100,000 | | | | | |
| Site Civil/Demolition | SF | \$10 | 37,157 | \$371,570 | | | | | |
| Chemical Storage tanks | EA | \$10,000 | 3 | \$30,000 | | | | | |
| Yard Piping | LS | \$45,000 | 1 | \$45,000 | | | | | |
| | | | Construction Subtotal: | \$3,349,070 | | | | | |
| Contractor Profit and Overhead | % | 12% | | \$401,888.40 | | | | | |
| Mobilization - Percent of Item Cost Sum | % | 6% | | \$200,944.20 | | | | | |
| Contingency - % of construction costs | % | 30% | | \$1,004,721 | | | | | |
| Engineering and CMS - % of construction costs | % | 25% | | \$837,267.50 | | | | | |
| | | | Project Total: | \$5,793,891 | | | | | |

1D - New Water Treatment Plant - 4.0 MGD Package Plant

Water Master Plan Project: New 1 MG Storage Tank and Booster Pump

Project Identifier:

1E

Objective:

This reservoir will provide for the emergency and operational storage needs of the system on the west part of Silverton. The booster will provide a backup to the Edison fire booster. In general both the booster and storage tank reduce the current vulnerability in the existing system. Storage is sized to meet 2020 needs.

Potential Issues:

Above ground vs. buried (cost assumes above ground) Concrete vs. Steel (cost assumes concrete) Drainage and overflow provisions

Project Location: Woodland Ave NE and Edison Rd



| General Line Items | Unit | Unit Price | Estimated Quantity | 2010 Cost |
|--|------|------------|--------------------|-------------|
| Fence, security, and lighting | LS | \$75,000 | 1 | \$75,000 |
| Yard piping and connection to existing system | LS | \$180,000 | 1 | \$180,000 |
| Earthwork including drainage overflow pond | LS | \$90,000 | 1 | \$90,000 |
| 1MG Prestressed Concrete Tank with concrete roof | LS | \$750,000 | 1 | \$750,000 |
| Tank ladder and access | LS | \$50,000 | 1 | \$50,000 |
| Install 1,000 gpm Booster Pump | EA | \$75,000 | 1 | \$75,000 |
| Mixing System | EA | \$10,000 | 1 | \$10,000 |
| Rechlorination System | EA | \$50,000 | 1 | \$50,000 |
| Mechanical, Electrical, and Instrumentation | LS | \$80,000 | 1 | \$80,000 |
| Altitude Valve on Existing High Level tank | LS | \$35,000 | 1 | \$35,000 |
| Landscaping | LS | \$25,000 | 1 | \$25,000 |
| Gravel access road | LF | \$100 | 400 | \$40,000 |
| Building | LS | \$80,000 | 1 | \$80,000 |
| Subtotal | | | | \$1,540,000 |
| Mobilization | % | 6% | | \$92,400 |
| Total Construction Costs | | | | \$1,632,400 |
| Contingency as % of total construction costs | % | 25% | | \$408,000 |
| Land Purchase and Easements | LS | \$0 | | \$0 |
| SCADA Integration and Controls | LS | 20,000 | | \$20,000 |
| Engineering and CMS as % of total construction costs | % | 20% | | \$326,480 |
| Total Project Cost | | | \$2,387,000 | |

Water Master Plan Project: 2nd Supply to Anderson PRV Zone

Project Identifier:

1F

Objective:

Eliminates the vulnerability of a single supply point to the Anderson PRV Zone and provides for higher fire flow requirements at sites such as Robert Frost Elementary and Silverton Hospital.

Potential Issues:

Coordinate pressure set points with existing Anderson PRV.

Project Location: Eureka Ave NE and Oregon Garden



| | - | | | |
|--|------|------------|--------------------|-----------|
| General Line Items | Unit | Unit Price | Estimated Quantity | 2010 Cost |
| Install 12" pipe (includes trenching, backfill, maint. valves, hydrants, and fittings) | LF | \$100 | 295 | \$29,500 |
| 5ft width Pavement Repair (4-inches thick) | LF | \$50 | 145 | \$7,250 |
| Install new PRV station with access vault | EA | \$50,000 | 1 | \$50,000 |
| Rock Excavation (bedrock or boulders) | CY | 185 | 25 | \$4,625 |
| Subtotal | | | | \$91,375 |
| Mobilization | % | 6% | | \$5,483 |
| Total Construction Costs | | | | \$96,858 |
| Contingency as % of total construction costs | % | 25% | | \$24,000 |
| SCADA | LS | \$12,000 | | \$12,000 |
| Engineering and CMS as % of total construction costs | % | 20% | | \$19,372 |
| Total Project Cost | | | \$153,000 | |

Transmission to West Upper Service Area

Project Identifier:

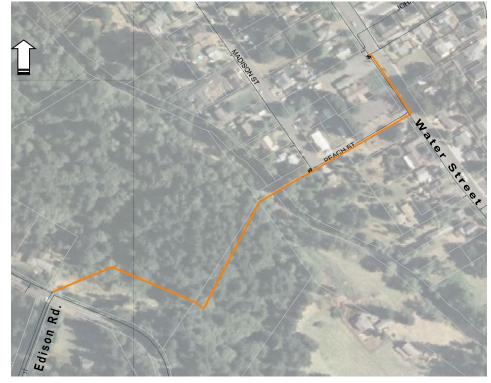
1G

Objective:

Eliminates the vulnerability of a single supply point to the West upper service area, allows for improved fire flow and storage.

Potential Issues: Rock Steep Slope Silver Creek Crossing Easement and access requirements High pressure pipeline

Project Location: Peach Ave To Edison Ave



| General Line Items | Unit | Unit Price | Estimated Quantity | 2010 Cost | | | |
|---|------|------------|--------------------|-----------|--|--|--|
| Install 12" pipe (includes trenching, backfill, maint valves, hydrants, and fittings) | LF | \$100 | 1,900 | \$190,000 | | | |
| 5ft width Pavement Repair (4-inches thick) | LF | \$50 | 670 | \$33,500 | | | |
| Traffic Control | LF | \$5 | 670 | \$3,350 | | | |
| Silver Creek Crossing (100ft) | LS | \$125,000 | 1 | \$125,000 | | | |
| Rock Excavation (bedrock or boulders) | CY | 185 | 200 | \$37,000 | | | |
| Slope stabilization and work | LF | \$85 | 200 | \$17,000 | | | |
| Additional for high pressure pipeline | LF | \$7 | 1,700 | \$11,900 | | | |
| Subtotal | | | | \$417,750 | | | |
| Mobilization | % | 6% | | \$25,065 | | | |
| Total Construction Costs | | | | \$442,815 | | | |
| Contingency as % of total construction costs | % | 25% | | \$111,000 | | | |
| Easement Acquisition | LS | \$59,000 | | \$59,000 | | | |
| Engineering and CMS as % of total construction costs | % | 20% | | \$88,563 | | | |
| Total Project Cost | | | \$702,000 | | | | |

Silver Creek Plaza Area Improvements

Project Identifier:

1H (replacement lines and new lines)

Objective:

Improves fire flow, transmission, and hydrant coverage to surrounding areas.

Potential Issues: Traffic control and business access Easements and continued service through construction

Project Location: Silver Creek Plaza



| General Line Items | Unit | Unit Price | Estimated Quantity | 2010 Cost |
|---|------|------------|--------------------|-----------|
| Install 10" pipe on S. James (includes trenching, backfill, maint valves, hydrants, and fittings) | LF | \$90 | 950 | \$85,500 |
| Install 8" line on West C Street | LF | \$80 | 2,000 | \$160,000 |
| 5ft width Pavement Repair (4-inches thick) | LF | \$50 | 3,094 | \$154,700 |
| Traffic Control | LF | \$5 | 3,000 | \$15,000 |
| Reconnect services | EA | \$1,700 | 12 | \$20,400 |
| Rock Excavation (bedrock or boulders) | CY | 185 | 20 | \$3,700 |
| Landscape | LS | 5,000 | 1 | \$5,000 |
| Subtotal | | | | \$444,300 |
| Mobilization | % | 6% | | \$26,658 |
| Total Construction Costs | | | | \$470,958 |
| Contingency as % of total construction costs | % | 25% | | \$118,000 |
| Easements | LS | \$10,000 | | \$10,000 |
| Engineering and CMS as % of total construction costs | % | 20% | | \$94,192 |
| Total Project Cost | | - | \$694,000 | |

Water Master Plan Project: Western Avenue Improvements

Project Identifier:

1I (new lines)

Objective:

Provides secondary supply source to high school. Also Improves fire flow, transmission, and hydrant coverage to surrounding areas.

Potential Issues: Easements Water service during construction

Project Location: Western Ave & Grant St



| General Line Items | Unit | Unit Price | Estimated Quantity | 2010 Cost |
|---|------|------------|--------------------|-----------|
| Install 10" pipe (includes trenching, backfill, maint valves, hydrants, and fittings) | LF | \$90 | 602 | \$54,180 |
| Install 8" pipe (includes trenching, backfill, maint valves, hydrants, and fittings) | LF | \$50 | 950 | \$47,500 |
| Traffic Control | LF | \$5 | 1,552 | \$7,760 |
| 5ft width Pavement Repair (4-inches thick) | LF | \$50 | 1,612 | \$80,600 |
| Reconnect Services | EA | \$1,700 | 5 | \$8,500 |
| Rock Excavation (bedrock or boulders) | CY | 185 | 20 | \$3,700 |
| Landscape | LS | 7,500 | 1 | \$7,500 |
| | | | | |
| Subtotal | | | | \$209,740 |
| Mobilization | % | 6% | | \$12,584 |
| Total Construction Costs | | | | \$222,324 |
| Contingency as % of total construction costs | % | 25% | | \$56,000 |
| Easements | LS | \$7,000 | | \$7,000 |
| Engineering and CMS as % of total construction costs | % | | | \$0 |
| Total Project Cost | | | \$286,000 | |

| Water Master Plan Project: Breyonna Way Loop | Project L | ocatio | on: Breyo | nna Way & I | lowa St |
|--|------------------------|---------------------|-----------------------------------|---|--|
| Project Identifier: 1J (new line) Objective: Closes an important loop in the WTP PRV Zone. Improves redundancy, fire flow, and cirucluation. Potential Issues: Easements, alignment | Pronou un pronou un | | SPENCER DR | | PRINCETON AV |
| | | | | CREST | |
| General Line Items | | Unit | Unit Price | CREST CREST Estimated Quantity | TVIEW DR 2010 Cost |
| General Line Items Install 8" pipe (includes trenching, backfill, maint valves, hydrants, and fittings) | | Unit LF | Unit Price \$50 | BEEFORMAT | 2010 Cost |
| | | | | Estimated Quantity | 2010 Cost \$25,000 |
| Install 8" pipe (includes trenching, backfill, maint valves, hydrants, and fittings) | | LF | \$50 | Estimated Quantity 500 | 2010 Cost \$25,000 \$1,850 |
| Install 8" pipe (includes trenching, backfill, maint valves, hydrants, and fittings) Rock Excavation (bedrock or boulders) | | LF CY | \$50 185 | Estimated Quantity 500 10 | 2010 Cost \$25,000 \$1,850 \$7,500 |
| Install 8" pipe (includes trenching, backfill, maint valves, hydrants, and fittings) Rock Excavation (bedrock or boulders) Landscaping | | LF CY | \$50 185 | Estimated Quantity 500 10 | 2010 Cost \$25,000 \$1,850 \$7,500 \$34,350 |
| Install 8" pipe (includes trenching, backfill, maint valves, hydrants, and fittings) Rock Excavation (bedrock or boulders) Landscaping Subtotal | | LF CY LS | \$50 185 7,500 | Estimated Quantity 500 10 | 2010 Cost \$25,000 \$1,850 \$7,500 \$34,350 \$2,061 |
| Install 8" pipe (includes trenching, backfill, maint valves, hydrants, and fittings) Rock Excavation (bedrock or boulders) Landscaping Subtotal Mobilization Total Construction Costs | | LF CY LS | \$50 185 7,500 | Estimated Quantity 500 10 | 2010 Cost \$25,000 \$1,850 \$7,500 \$34,350 \$2,061 \$36,411 |
| Install 8" pipe (includes trenching, backfill, maint valves, hydrants, and fittings) Rock Excavation (bedrock or boulders) Landscaping Subtotal Mobilization | | LF CY LS % | \$50 185 7,500 6% | Estimated Quantity 500 10 | 2010 Cost \$25,000 \$1,850 \$7,500 \$7,500 \$2,061 \$36,411 \$9,000 |
| Install 8" pipe (includes trenching, backfill, maint valves, hydrants, and fittings) Rock Excavation (bedrock or boulders) Landscaping Subtotal Mobilization Total Construction Costs Contingency as % of total construction costs | | LF CY LS % | \$50 185 7,500 6% 25% | Estimated Quantity 500 10 | |

N. 3rd Street Improvements

Project Identifier:

1K (replacement)

Objective:

Improves fire flow, and hydrant coverage to commercially zoned area.

Potential Issues:

Project Location: N. 3rd St btwn High St and B St



| General Line Items | Unit | Unit Price | Estimated Quantity | 2010 Cost |
|--|------|------------|--------------------|-----------|
| Install 8" pipe (includes trenching, backfill, maint valves, hydrants, and fittings) | LF | \$80 | 793 | \$63,440 |
| Traffic Control | LF | \$5 | 793 | \$3,965 |
| 5ft width Pavement Repair (4-inches thick) | LF | \$50 | 889 | \$44,450 |
| Install new hydrants on existing lines | EA | \$4,000 | 3 | \$12,000 |
| Reconnect Services | EA | \$1,700 | 8 | \$13,600 |
| Rock Excavation (bedrock or boulders) | CY | 185 | 20 | \$3,700 |
| Landscaping | LS | 4,000 | 1 | \$4,000 |
| Subtotal | | | | \$145,155 |
| Mobilization | % | 6% | | \$8,709 |
| Total Construction Costs | | | | \$153,864 |
| Contingency as % of total construction costs | % | 25% | | \$38,000 |
| Engineering and CMS as % of total construction costs | % | 20% | | \$30,773 |
| Total Project Cost | | | \$223 <i>,</i> 000 | |

Washington and Lincoln Street Improvements

Project Identifier:

1L (new lines)

Objective:

Improves fire flow, and hydrant coverage to surrounding areas. Remove problematic lines and distribution lines in alleys.

Potential Issues: Reconnection of services

Project Location: Washington & Lincoln Streets btwn Mill and N. 2nd Streets



| General Line Items | Unit | Unit Price | Estimated Quantity | 2010 Cost |
|--|------|------------|--------------------|-----------|
| Install 8" pipe (includes trenching, backfill, maint valves, hydrants, and fittings) | LF | \$80 | 1,310 | \$104,800 |
| Traffic Control | LF | \$5 | 1,310 | \$6,550 |
| 5ft width Pavement Repair (4-inches thick) | LF | \$50 | 1,710 | \$85,500 |
| Directional bore for existing services-includes connnection | EA | \$1,500 | 40 | \$60,000 |
| New meters | EA | \$1,000 | 40 | \$40,000 |
| Rock Excavation (bedrock or boulders) | CY | 185 | 10 | \$1,850 |
| Landscaping | LS | 5,000 | 1 | \$5,000 |
| Subtotal | | | | \$303,700 |
| Mobilization | % | 6% | | \$18,222 |
| Total Construction Costs | | | | \$321,922 |
| Contingency as % of total construction costs | % | 25% | | \$80,000 |
| Engineering and CMS as % of total construction costs | % | 20% | | \$64,384 |
| Total Project Cost | | | \$467,000 | |

Water Master Plan Project: Kent Street and Sweden Circle

Project Identifier:

1M (new line)

Objective:

Improves fire flow, and system looping for Water Treatment Plant PRV Zone.

Potential Issues: Lines not in right of way - may consider alternate route.

Project Location: Kent St & Sweden Circle



| General Line Items | Unit | Unit Price | Estimated Quantity | 2010 Cost |
|--|------|------------|--------------------|-----------|
| Install 8" pipe (includes trenching, backfill, maint valves, hydrants, and fittings) | LF | \$80 | 170 | \$13,600 |
| 5ft width Pavement Repair (4-inches thick) | LF | \$50 | 1 | \$50 |
| Landscaping | LS | \$3,000 | 1 | \$3,000 |
| Rock Excavation (bedrock or boulders) | CY | 185 | 10 | \$1,850 |
| Subtotal | | | | \$18,500 |
| Mobilization | % | 6% | | \$1,110 |
| Total Construction Costs | | | | \$19,610 |
| Contingency as % of total construction costs | % | 25% | | \$5,000 |
| Easements | LS | \$6,000 | | \$6,000 |
| Engineering and CMS as % of total construction costs | % | 20% | | \$3,922 |
| Total Project | Cost | | \$35 <i>,</i> 000 | |

Woodland Drive NE and Oregon Garden and Relocate backflow prevention on Oregon Garden

Project Identifier:

1N (new line)

Objective:

Eliminates vulnerability of single line feed to Oregon Gardens' system. Resolves fire flow deficiency. Relocation of backflow prevention on the Oregon Garden line addresses the low fire flow concerns on the Garden Site and allows benefit of looping.

Potential Issues:

Easement and final alignment of water line will be required.

Project Location: Woodland Dr and Oregon Garden



| General Line Items | Unit | Unit Price | Estimated Quantity | 2010 Cost |
|--|------|------------|--------------------|-----------|
| Install 8" pipe (includes trenching, backfill, maint valves, hydrants, and fittings) | LF | \$80 | 770 | \$61,600 |
| New Backflow Prevention units | EA | \$10,000 | 3 | \$30,000 |
| Surface Repair - Pavement | LS | \$4,000 | 1 | \$4,000 |
| Clearing | LF | \$25 | 700 | \$17,500 |
| Landscaping | LS | \$1 | 3,000 | \$3,000 |
| Simple Gravel Road | LF | \$60 | 800 | \$48,000 |
| Rock Excavation (bedrock or boulders) | CY | 185 | 50 | \$9,250 |
| Subtotal | | | | \$173,350 |
| Mobilization | % | 6% | | \$10,401 |
| Total Construction Costs | | | | \$183,751 |
| Contingency as % of total construction costs | % | 25% | | \$46,000 |
| Easements | LS | \$20,000 | | \$20,000 |
| Engineering and CMS as % of total construction costs | % | 20% | | \$36,750 |
| Total Project Cost | | | \$287,000 | |

Water Master Plan Project: Hobart Road Improvements

Project Identifier:

10 (replacement)

Objective:

Provides for future transmission corridor and improves service and fire flow to existing users. Also replaces old asbestos cement line on Hobart Rd. The section east of 2nd was installed in 2013.

Potential Issues:

Project Location: Hobart Rd & N. 2nd St

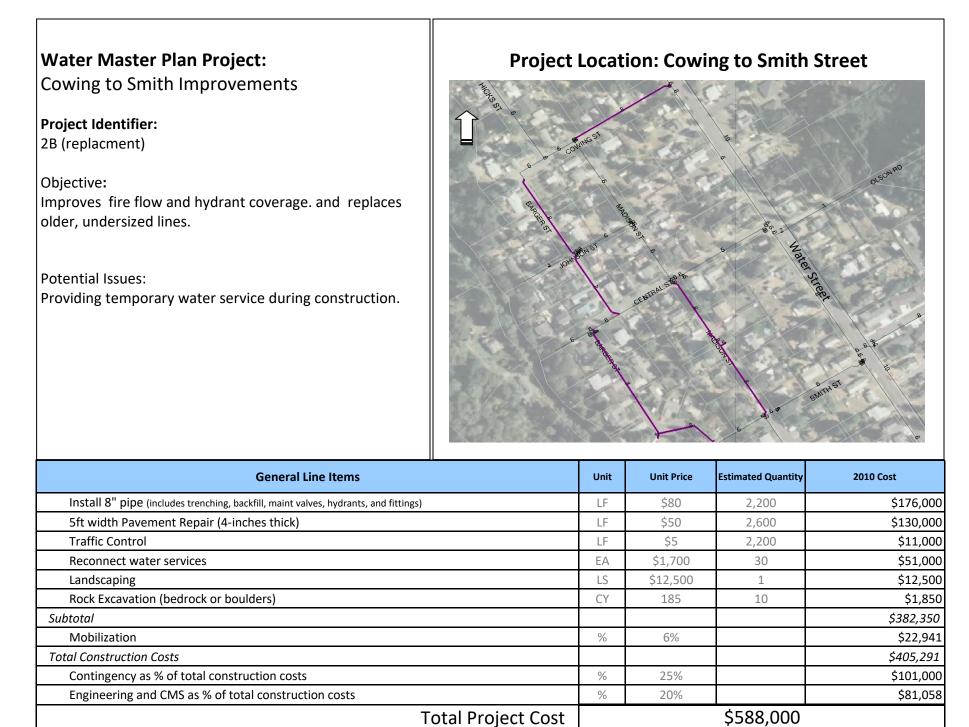


| General Line Items | Unit | Unit Price | Estimated Quantity | 2010 Cost |
|---|------|------------|--------------------|-----------|
| Install 12" pipe (includes trenching, backfill, maint valves, hydrants, and fittings) | LF | \$100 | 900 | \$90,000 |
| 5ft width Pavement Repair (4-inches thick) | LF | \$50 | 984 | \$49,200 |
| Traffic Control | LF | \$5 | 900 | \$4,500 |
| Reconnect Services | EA | 1,700 | 7 | \$11,900 |
| Landscaping | LS | 2,500 | 1 | \$2,500 |
| Rock Excavation (bedrock or boulders) | CY | 185 | 10 | \$1,850 |
| Subtotal | | | | \$159,950 |
| Mobilization | % | 6% | | \$9,597 |
| Total Construction Costs | | | | \$169,547 |
| Contingency as % of total construction costs | % | 25% | | \$42,000 |
| Engineering and CMS as % of total construction costs | % | 20% | | \$33,909 |
| Total Project Cost | | | \$246 <i>,</i> 000 | |

| Water Master Plan Project: New High Level Pumphouse Project Identifier: 1P (replacement) Objective: Save energy costs by installing a high efficiency booster. Expand pumping capacity, upgrade old equipment and facility. Provide backup power. Potential Issues: Coordinate funding with Oregon Energy Trust Site space restrictions | Project | Locat | ion: Wate | E MAIN ST | Plant |
|---|---------|---------------------------------------|--|--|--|
| General Line Items | | Unit | Unit Price | Estimated Quantity | RESERVE : |
| | | | | | |
| New 75HP Pump | | EA | \$30,000 | 1 | \$30,000 |
| Install two 125 hp pumps | | LS | \$50,000 | 2 | \$100,000 |
| | | | | | |
| Install medium pressure jokey pump | | LS | \$20,000 | 1 | |
| Install medium pressure jokey pump 6" pressure reducing valve | | EA | \$6,000 | 2 | \$12,000 |
| Install medium pressure jokey pump 6" pressure reducing valve 3" pressure reducing valve | | EA EA | \$6,000 \$5,000 | 2 1 | \$12,000 \$5,000 |
| Install medium pressure jokey pump 6" pressure reducing valve 3" pressure reducing valve New Building | | EA EA LS | \$6,000 \$5,000 \$200,000 | 2 1 1 | \$20,000 \$12,000 \$5,000 \$200,000 \$12,000 |
| Install medium pressure jokey pump 6" pressure reducing valve 3" pressure reducing valve New Building Mechanical - valves, meters | | EA EA LS LS | \$6,000 \$5,000 \$200,000 \$12,000 | 2 1 1 1 1 | \$12,000 \$5,000 \$200,000 \$12,000 |
| Install medium pressure jokey pump 6" pressure reducing valve 3" pressure reducing valve New Building Mechanical - valves, meters Electrical | | EA EA LS LS LS | \$6,000 \$5,000 \$200,000 \$12,000 \$75,000 | 2 1 1 1 1 1 1 | \$12,000 \$5,000 \$200,000 \$12,000 \$75,000 |
| Install medium pressure jokey pump 6" pressure reducing valve 3" pressure reducing valve New Building Mechanical - valves, meters Electrical Instrumentation | | EA EA LS LS LS LS | \$6,000 \$5,000 \$200,000 \$12,000 \$75,000 \$32,000 | 2 1 1 1 1 1 1 1 1 | \$12,00 \$5,00 \$200,00 \$12,00 \$75,00 \$32,00 |
| Install medium pressure jokey pump 6" pressure reducing valve 3" pressure reducing valve New Building Mechanical - valves, meters Electrical | | EA EA LS LS LS | \$6,000 \$5,000 \$200,000 \$12,000 \$75,000 | 2 1 1 1 1 1 1 | \$12,00 \$5,00 \$200,00 \$12,00 \$75,00 \$32,00 |
| Install medium pressure jokey pump 6" pressure reducing valve 3" pressure reducing valve New Building Mechanical - valves, meters Electrical Instrumentation Standby power | | EA EA LS LS LS LS | \$6,000 \$5,000 \$200,000 \$12,000 \$75,000 \$32,000 | 2 1 1 1 1 1 1 1 1 | \$12,00 \$5,00 \$200,00 \$12,00 \$75,00 \$32,00 \$85,00 |
| Install medium pressure jokey pump 6" pressure reducing valve 3" pressure reducing valve New Building Mechanical - valves, meters Electrical Instrumentation Standby power | | EA EA LS LS LS EA | \$6,000 \$5,000 \$200,000 \$12,000 \$75,000 \$32,000 \$85,000 | 2 1 1 1 1 1 1 1 1 | \$12,00 \$5,00 \$200,00 \$12,00 \$75,00 \$32,00 \$85,00 \$85,00 |
| Install medium pressure jokey pump 6" pressure reducing valve 3" pressure reducing valve New Building Mechanical - valves, meters Electrical Instrumentation Standby power | | EA EA LS LS LS LS | \$6,000 \$5,000 \$200,000 \$12,000 \$75,000 \$32,000 | 2 1 1 1 1 1 1 1 1 | \$12,00 \$5,00 \$200,00 \$12,00 \$75,00 \$32,00 \$85,00 \$85,00 \$85,00 \$34,26 |
| Install medium pressure jokey pump 6" pressure reducing valve 3" pressure reducing valve New Building Mechanical - valves, meters Electrical Instrumentation Standby power Subtotal Mobilization Total Construction Costs | | EA EA LS LS LS EA % | \$6,000 \$5,000 \$200,000 \$12,000 \$75,000 \$32,000 \$85,000 6% | 2 1 1 1 1 1 1 1 1 | \$12,00 \$5,00 \$200,00 \$12,00 \$75,00 \$32,00 \$85,00 \$85,00 \$34,26 \$605,260 |
| Install medium pressure jokey pump 6" pressure reducing valve 3" pressure reducing valve New Building Mechanical - valves, meters Electrical Instrumentation Standby power Subtotal Mobilization Total Construction Costs Contingency as % of total construction costs | | EA EA LS LS LS EA | \$6,000 \$5,000 \$200,000 \$12,000 \$75,000 \$32,000 \$85,000 6% 25% | 2 1 1 1 1 1 1 1 1 | \$12,00 \$5,00 \$200,00 \$12,00 \$75,00 \$32,00 \$85,00 \$85,00 \$34,26 \$605,260 \$151,00 |
| Install medium pressure jokey pump 6" pressure reducing valve 3" pressure reducing valve New Building Mechanical - valves, meters Electrical Instrumentation Standby power Subtotal Mobilization Total Construction Costs | | EA EA LS LS LS EA % | \$6,000 \$5,000 \$200,000 \$12,000 \$75,000 \$32,000 \$85,000 6% | 2 1 1 1 1 1 1 1 1 1 1 1 1 1 | \$12,000 \$5,000 \$200,000 \$12,000 |

| Item | Unit | Unit Price | Estimated Quantity | Item Cost |
|---|------|------------|------------------------|--------------|
| 20" DI Pipe | LF | \$260 | 1,500 | \$390,000 |
| Site Restoration | LS | \$25,000 | 1 | \$25,000 |
| | | | Construction Subtotal: | \$415,000 |
| Contractor Profit and Overhead | % | 10% | | \$41,500.00 |
| Mobilization - Percent of Item Cost Sum | % | 6% | | \$24,900.00 |
| Contingency - % of construction costs | % | 30% | | \$124,500 |
| Engineering and CMS - % of construction costs | % | 25% | | \$103,750.00 |
| | | | Project Total: | \$709,650 |

2A - Abiqua Intake Line - Replace 1,110' of 14" Transmission Line



The cost estimate herein is based on our perception of current conditions at the project location. This estimate reflects our opinion of probable costs at this time and is subject to change as the project design matures. The City has no control over variances in the cost of labor, materials, equipment, services provided by others, contractor's methods of determining prices, competitive bidding or market conditions, practices or bidding strategies. The City cannot and does not warrant or guarantee that proposals, bids, or actual construction costs will not vary from the cost presented herein.

Project Location: Fiske Street Water Master Plan Project: Fiske Street Improvements **Project Identifier:** 2C (replacement) Objective: Improves fire flow and hydrant coverage and replaces older undersized lines **Potential Issues:** Providing temporary water service during construction. \$OOLDGE Unit Price 2010 Cost Unit **Estimated Quantity General Line Items** Install 8" pipe (includes trenching, backfill, maint valves, hydrants, and fittings) LF \$80 1,200 \$96,000 5ft width Pavement Repair (4-inches thick) LF \$50 1,300 \$65,000 Traffic Control LF 1,200 \$6,000 5 ΕA \$1,700 8 \$13,600 Reconnect water services Landscaping LS \$7,500 \$7,500 1 Rock Excavation (bedrock or boulders) 185 10 \$1,850 CY Subtotal \$189,950 Mobilization % 6% \$11,397

Total Project Cost

\$201,347

\$50,000

\$40,269

25%

20%

\$292,000

%

Total Construction Costs

Contingency as % of total construction costs

Engineering and CMS as % of total construction costs

| Water Master Plan Project: | Project Loo | catio | n: Fosholn | n and Indu | stry Way |
|--|-------------|----------------------|--------------------------|-----------------------------------|--|
| Industry Way Improvements | 100 B 100 | R.R. | Call and | 34255 | |
| Project Identifier: 2D (new line) Objective: Improves fire flow, pressure, and circulation at city shop. Potential Issues: Easements and alignment to be finalized. | | INDL | JSTRX WY NE | | SHORT ST WIL SHORT ST NE SHORT ST NE SHORT ST NE SHORT ST NE SHORT ST NE SHORT ST NE |
| | | N IN IN | | ~ | |
| General Line Items | | Unit | Unit Price | Estimated Quantity | 2010 Cost |
| General Line Items Install 8" pipe (includes trenching, backfill, maint valves, hydrants, and fittings) | | Unit | Unit Price \$80 | | |
| | | | | Quantity | \$160,000 |
| Install 8" pipe (includes trenching, backfill, maint valves, hydrants, and fittings) | | LF | \$80 | Quantity 2,000 | 2010 Cost \$160,000 \$65,000 \$5,600 |
| Install 8" pipe (includes trenching, backfill, maint valves, hydrants, and fittings) 5ft width Pavement Repair (4-inches thick) | | LF LF | \$80 \$50 | Quantity 2,000 1,300 | \$160,000 \$65,000 |
| Install 8" pipe (includes trenching, backfill, maint valves, hydrants, and fittings) 5ft width Pavement Repair (4-inches thick) Traffic Control | | LF LF LF | \$80 \$50 8 | Quantity 2,000 1,300 700 | \$160,000 \$65,000 \$5,600 \$1,850 |
| Install 8" pipe (includes trenching, backfill, maint valves, hydrants, and fittings) 5ft width Pavement Repair (4-inches thick) Traffic Control Rock Excavation (bedrock or boulders) | | LF LF LF | \$80 \$50 8 | Quantity 2,000 1,300 700 | \$160,000 \$65,000 \$5,600 \$1,850 <i>\$232,450</i> |
| Install 8" pipe (includes trenching, backfill, maint valves, hydrants, and fittings) 5ft width Pavement Repair (4-inches thick) Traffic Control Rock Excavation (bedrock or boulders) Subtotal | | LF LF LF CY | \$80 \$50 8 185 | Quantity 2,000 1,300 700 | \$160,000 \$65,000 \$5,600 |
| Install 8" pipe (includes trenching, backfill, maint valves, hydrants, and fittings) 5ft width Pavement Repair (4-inches thick) Traffic Control Rock Excavation (bedrock or boulders) Subtotal Mobilization | | LF LF LF CY | \$80 \$50 8 185 | Quantity 2,000 1,300 700 | \$160, \$65, \$5, \$1, \$232, \$13, |

Total Project Cost

\$358,000

Pioneer and Evans Valley Improvements

Project Identifier:

2E (new line)

Objective:

Improves fire flow, pressure, circulation and future transmission. Eliminates vulnerability of single feed to WTP PRV Zone.

Potential Issues:

Coordinate improvement with Pioneer Rd. alignment and future development.

Project Location: Pioneer and Evans Valley



| General Line Items - Upsize Costs Only | Unit | Unit Price | Estimated Quantity | 2010 Cost |
|---|------|------------|--------------------|-----------|
| Install 8" pipe (includes trenching, backfill, maint valves, hydrants, and fittings) | LF | \$80 | 2,700 | \$216,000 |
| Install 12" pipe (includes trenching, backfill, maint valves, hydrants, and fittings) | LF | \$100 | 560 | \$56,000 |
| Surface Repair - Pavement | LF | \$100 | 2,260 | \$226,000 |
| Traffic Control | LF | \$8 | 2,260 | \$18,080 |
| PRV connection from WTP Booster Zone to WTP PRV Zone at Pioneer and Crestview | EA | 50,000 | 1 | \$50,000 |
| Rock Excavation (bedrock or boulders) | CY | 185 | 100 | \$18,500 |
| Subtotal | | | | \$584,580 |
| Mobilization | % | 6% | | \$35,075 |
| Total Construction Costs | | | | \$619,655 |
| Contingency as % of total construction costs | % | 25% | | \$155,000 |
| Engineering and CMS as % of total construction costs | % | 20% | | \$123,931 |
| Total Project Cost | | | \$899 <i>,</i> 000 | |

Oak Street Improvements

Project Identifier:

2F (new line)

Objective:

Improves transmission in the Clearwell Zone. Improves pressures for connections in the WTP PRV Zone on Oak Street. Improves looping, circulation, and fire flow in both zones.

Connectivity Information:

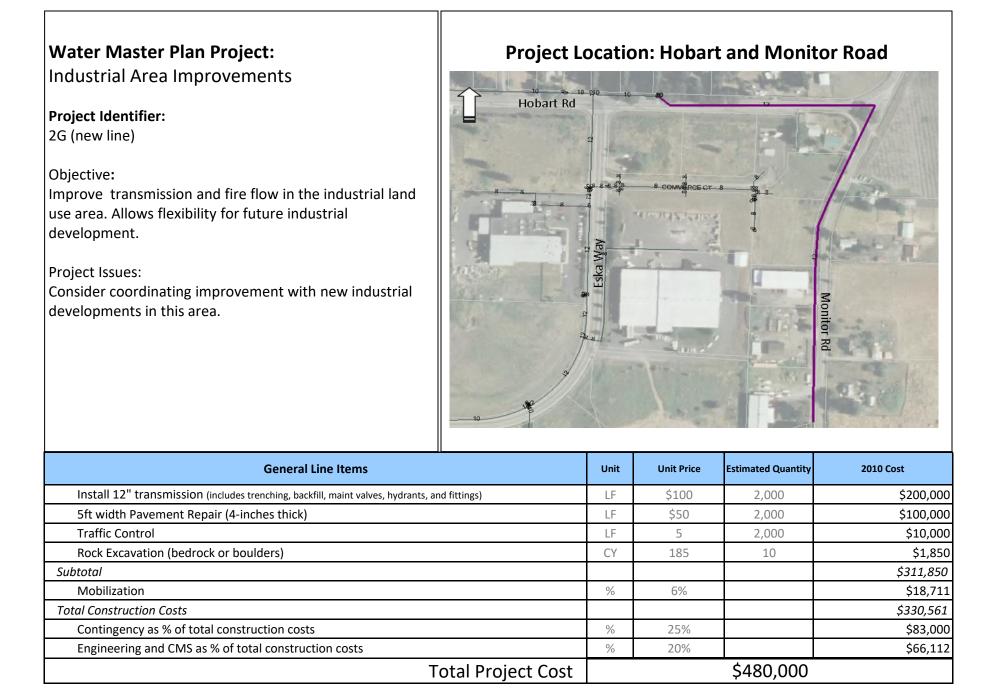
Existing 6-8" lines on Oak to be converted from the Clearwell Zone (low zone) to WTP PRV Zone (medium zone). A new 12" transmission line to be installed and serve the Clearwell Zone. Install new 8" connection btwn WTP PRV Zone lines at intersection of Silver Cliff BV, Oak St, and Iowa St. Install new 8" connection btwn Clearwell Zone lines at same intersection.

Project Location: Oak St btwn Norway St and Monitor

Rd



| General Line Items | Unit | Unit Price | Estimated Quantity | 2010 Cost |
|---|------|------------|--------------------|-----------|
| Install 8" connections (includes trenching, backfill, maint valves, hydrants, and fittings) | LF | \$75 | 100 | \$7,500 |
| Install 12" transmission (includes trenching, backfill, maint valves, hydrants, and fittings) | LF | \$100 | 2,000 | \$200,000 |
| 5ft width Pavement Repair (4-inches thick) | LF | \$50 | 2,100 | \$105,000 |
| Rock Excavation (bedrock or boulders) | CY | 185 | 10 | \$1,850 |
| Traffic Control | LS | 25,000 | 1 | \$25,000 |
| Various connections and Pressure zone modifications | LS | 20,000 | 1 | \$20,000 |
| Subtotal | | | | \$359,350 |
| Mobilization | % | 6% | | \$21,561 |
| Total Construction Costs | | | | \$380,911 |
| Contingency as % of total construction costs | % | 25% | | \$95,000 |
| Engineering and CMS as % of total construction costs | % | 20% | | \$76,182 |
| Total Project Cost | | | \$553 <i>,</i> 000 | |



Water Master Plan Project: Main and 5th Improvements

Project Identifier:

2H (replacement)

Objective:

Address recurring complaints regarding pressures in this area. Improve fire flow, hydrant coverage, and circulation. Replace small, undersized pipes.

Project Issues:

Project Location: E. Main St and 5th St



| 03 | | | | | RESE |
|---|-----------------|------|------------|--------------------|-----------|
| General Line Items | | Unit | Unit Price | Estimated Quantity | 2010 Cost |
| Install 8" lines (includes trenching, backfill, maint valves, hydrants, and fittings) | | LF | \$80 | 2,550 | \$204,000 |
| 5ft width Pavement Repair (4-inches thick) | | LF | \$50 | 2,750 | \$137,500 |
| Traffic Control | | LF | \$5 | 2,550 | \$12,750 |
| Landscaping | | LS | \$10,000 | 1 | \$10,000 |
| Rock Excavation (bedrock or boulders) | | CY | 185 | 100 | \$18,500 |
| Reconnect services | | EA | \$1,700 | 20 | \$34,000 |
| Subtotal | | | | | \$416,750 |
| Mobilization | | % | 6% | | \$25,005 |
| Total Construction Costs | | | | | \$441,755 |
| Contingency as % of total construction costs | | % | 25% | | \$110,000 |
| Engineering and CMS as % of total construction costs | | % | 20% | | \$88,351 |
| Tota | al Project Cost | | | \$641,000 | |

Well and Orchard Improvements

Project Identifier:

2I (replacement)

Objective: Improve fire flow and hydrant coverage.

Project Issues:

Project Location: Well St and Orchard St



| General Line Items | Unit | Unit Price | Estimated Quantity | 2010 Cost |
|---|------|------------|--------------------|-----------|
| Install 8" lines (includes trenching, backfill, maint valves, hydrants, and fittings) | LF | \$80 | 1,000 | \$80,000 |
| 5ft width Pavement Repair (4-inches thick) | LF | \$50 | 1,240 | \$62,000 |
| Traffic Control | LF | \$5 | 1,000 | \$5,000 |
| Rock Excavation (bedrock or boulders) | CY | 185 | 10 | \$1,850 |
| Landscape | LS | 3,000 | 1 | \$3,000 |
| Reconnect existing services | EA | \$1,700 | 20 | \$34,000 |
| Subtotal | | | | \$185,850 |
| Mobilization | % | 6% | | \$11,151 |
| Total Construction Costs | | | | \$197,001 |
| Contingency as % of total construction costs | % | 25% | | \$49,000 |
| Engineering and CMS as % of total construction costs | % | 20% | | \$39,400 |
| Total Project Cost | | | \$286,000 | |

Water Master Plan Project: Future Park Service

Project Identifier:

2J (new line)

Objective:

Extend service to future park. Because the future piping requirements for the park are presently unkown, the figure and pipe lengths provided here are for illustration only.

Project Issues:

Tree removal, replacement and other surface repair is assumed to be part of future park work. Coordinate looped service to park area with the pressure zone boundary on Hawk Drive.

Project Location: Hawk Dr and Centennial Dr



| General Line Items | Unit | Unit Price | Estimated Quantity | 2010 Cost |
|---|------|------------|--------------------|-----------|
| Install 8" lines (includes trenching, backfill, maint valves, hydrants, and fittings) | LF | \$80 | 250 | \$20,000 |
| Rock Excavation (bedrock or boulders) | CY | 185 | 10 | \$1,850 |
| Subtotal | | | | \$21,850 |
| Mobilization | % | 6% | | \$1,311 |
| Total Construction Costs | | | | \$23,161 |
| Contingency as % of total construction costs | % | 25% | | \$6,000 |
| Engineering and CMS as % of total construction costs | % | 20% | | \$4,632 |
| Total Project Cost | | | \$34,000 | |

Water Master Plan Project: Future 1 MG Tank

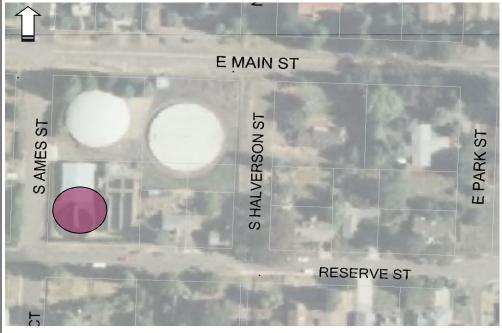
Project Identifier: 2K (new facilities)

Objective: Provide for future storage needs

Project Issues:

Placement based on future growth within the City. Acquisition of additional space adjacent to WTP site may be needed. Tank should match levels of existing storage at property. Share overflow and drainage system with existing tanks.

Project Location: Water Treatment Plant or Edison Road



| General Line Items | Unit | Unit Price | Estimated Quantity | 2010 Cost |
|--|------|------------|--------------------|-------------|
| Fence, security, and lighting | LS | \$50,000 | 1 | \$50,000 |
| Yard piping and connection to existing system | LS | \$120,000 | 1 | \$120,000 |
| Earthwork | LS | \$80,000 | 1 | \$80,000 |
| 1 MG Prestressed Concrete Tank with aluminum dome | LS | \$800,000 | 1 | \$800,000 |
| | | | | |
| Subtotal | | | | \$1,050,000 |
| Mobilization | % | 6% | | \$63,000 |
| Total Construction Costs | | | | \$1,113,000 |
| Contingency as % of total construction costs | % | 25% | | \$278,000 |
| Land Purchase | LS | 0 | | \$0 |
| SCADA Integration and Controls | LS | 20,000 | 1 | \$20,000 |
| Engineering and CMS as % of total construction costs | % | 20% | | \$222,600 |
| Total Project Cost | | | \$1,634,000 | |

Lewis Street Improvements

Project Identifier:

2L (replacement)

Objective:

Eliminate undersized tuberculated lines, improve water quality and fire flow.

Project Issues:

Project Location: S. 3rd Sreet and Lewis Street



| General Line Items | Unit | Unit Price | Estimated Quantity | 2010 Cost |
|---|------|------------|--------------------|-----------|
| Install 8" lines (includes trenching, backfill, maint valves, hydrants, and fittings) | LF | \$80 | 1,400 | \$112,000 |
| 5ft width Pavement Repair (4-inches thick) | LF | \$50 | 1,700 | \$85,000 |
| Traffic Control | LF | 5 | 1,400 | \$7,000 |
| Rock Excavation (bedrock or boulders) | CY | 185 | 10 | \$1,850 |
| Landscape | LS | 5,000 | 1 | \$5,000 |
| Reconnect existing services | EA | 1,700 | 25 | \$42,500 |
| Subtotal | | | | \$253,350 |
| Mobilization | % | 6% | | \$15,201 |
| Total Construction Costs | | | | \$268,551 |
| Contingency as % of total construction costs | % | 25% | | \$67,000 |
| Engineering and CMS as % of total construction costs | % | 20% | | \$53,710 |
| Total Project Cost | | | \$390,000 | |

Water Master Plan Project: Water Street Improvements

Project Identifier:

2M (replacement)

Objective:

Improve transmission, fire flow, and hydrant coverage. Replace old, undersize, steel pipes.

Project Issues:

Water Street is a State Highway and may have additional requirements. With city inspection, the additional cost of control density backfill may be avoidable. Project should be coordinated with other street improvements to reduce project costs where possible.

Project Location: Water St btwn Ike Mooney and Pioneer Rd



| General Line Items | | Unit | Unit Price | Estimated Quantity | 2010 Cost |
|--|-------------------|------|------------|--------------------|-----------|
| Install 10" lines (includes trenching, backfill, maint valves, hydrants, and fittings) | | LF | \$90 | 2,550 | \$229,500 |
| 10 ft width pavement Repair (6-inches thick) | | LF | \$100 | 3,050 | \$305,000 |
| Rock Excavation (bedrock or boulders) | | CY | 185 | 20 | \$3,700 |
| Additional for control density backfill | | LF | \$40 | 2,550 | \$102,000 |
| Traffic Control | | LF | \$5 | 2,550 | \$12,750 |
| Landscape | | LS | 25,000 | 1 | \$25,000 |
| Reconnect services | | EA | \$1,700 | 26 | \$44,200 |
| Subtotal | | | | | \$722,150 |
| Mobilization | | % | 6% | | \$43,329 |
| Total Construction Costs | | | | | \$765,479 |
| Contingency as % of total construction costs | | % | 25% | | \$191,000 |
| Engineering and CMS as % of total construction costs | | % | 20% | | \$153,096 |
| Тс | otal Project Cost | | | \$1,110,000 | |

Pine Street Improvements

Project Identifier:

2N (replacement)

Objective:

Improves fire flow, transmission, and hydrant coverage to surrounding areas.

Potential Issues:

Project Location: Pine & James Street



| General Line Items | Unit | Unit Price | Estimated Quantity | 2010 Cost |
|---|------|------------|--------------------|-----------|
| Install 10" pipe (includes trenching, backfill, maint valves, hydrants, and fittings) | LF | \$90 | 600 | \$54,000 |
| Traffic Control | LF | \$5 | 600 | \$3,000 |
| 5ft width Pavement Repair (4-inches thick) | LF | \$50 | 700 | \$35,000 |
| Reconnect Services | EA | \$1,700 | 9 | \$15,300 |
| Rock Excavation (bedrock or boulders) | CY | 185 | 10 | \$1,850 |
| Landscaping | LS | 2 | 3,000 | \$6,000 |
| | | | | |
| Subtotal | | | | \$115,150 |
| Mobilization | % | 6% | | \$6,909 |
| Total Construction Costs | | | | \$122,059 |
| Contingency as % of total construction costs | % | 25% | | \$31,000 |
| Engineering and CMS as % of total construction costs | % | 20% | | \$24,412 |
| Total Project Cost | : | | \$178,000 | |

Water Master Plan Project: Keene and Ash Improvements

Project Identifier:

20 (replacement)

Objective:

Improves fire flow, transmission, and hydrant coverage to surrounding areas. Eliminates undersized and problematic lines from the system.

Potential Issues:

Project Location: Keene & Ash Street



| | - | | | |
|--|------|------------|--------------------|-------------------|
| General Line Items | Unit | Unit Price | Estimated Quantity | 2010 Cost |
| Install 8" pipe (includes trenching, backfill, maint valves, hydrants, and fittings) | LF | \$80 | 1,900 | \$152,000 |
| Traffic Control | LF | \$5 | 1,900 | \$9,500 |
| 5ft width Pavement Repair (4-inches thick) | LF | \$50 | 2,200 | \$110,000 |
| Reconnect Services | EA | \$1,700 | 25 | \$42,500 |
| Landscaping | LS | \$10,000 | 1 | \$10,000 |
| Rock Excavation (bedrock or boulders) | CY | 185 | 30 | \$5,550 |
| | | | | |
| Subtotal | | | | \$329,550 |
| Mobilization | % | 6% | | \$19,773 |
| Total Construction Costs | | | | \$349,323 |
| Contingency as % of total construction costs | % | 25% | | \$87,000 |
| Engineering and CMS as % of total construction costs | % | 20% | | \$69 <i>,</i> 865 |
| Total Project Cos | t | | \$507,000 | |

High Level Tank Improvements

Project Identifier:

2P (new faciliites/maintenance of existing)

Objective:

Addresss issues at the tank site identified in October 2010 Keller Associates Technical Memorandum: Silverton Water Distribution System Inventory and Evaluation (p.2)

Potential Issues:

Tank may need to be out of service or otherwise isolated for some improvments.

Project Location: High Level Tank



| General Line Items | Unit | Unit Price | Estimated Quantity | 2010 Cost |
|--|------|------------|--------------------|-------------------|
| Recoating of tank exterior | LS | \$130,000 | 1 | \$130,000 |
| Replace ladder system | LS | \$50,000 | 1 | \$50,000 |
| Security Improvements | LS | \$45,000 | 1 | \$45,000 |
| Replace manway covers | LS | \$15,000 | 1 | \$15,000 |
| Replace venting | LS | \$8,000 | 1 | \$8,000 |
| | | | | |
| Subtotal | | | | \$248,000 |
| Mobilization | % | 6% | | \$14,880 |
| Total Construction Costs | | | | \$262,880 |
| Contingency as % of total construction costs | % | 10% | | \$26,000 |
| Engineering and CMS as % of total construction costs | % | 15% | | \$39 <i>,</i> 432 |
| Total Project | Cost | | \$329 <i>,</i> 000 | |

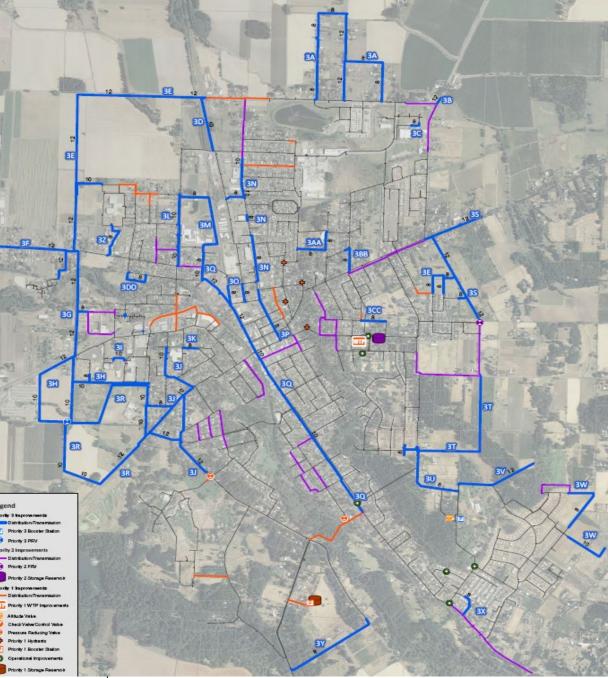
Water Master Plan Project: Priority 3 Improvements

Objective:

Priority 3 improvements are intended to provide an outline for future distribution alignments, transmission corridors, and lower priority improvements targeted to alleviate anticipated bottlenecks and maintenance issues. Projects address future transmission and fire protection needs, including enhanced fire protection in existing commercially zoned areas.

Improvements are anticipated to be completed by 2055. Many of these projects should be coordinated with development and roadway projects to minimize costs.

For projects assumed to be primarily development driven and that are intended to directly service adjacent developable lands, only project upsize costs are calculated. Upsize costs refer to the cost to increase the pipe from the minimum 8-inch pipe to specific size required for other planning needs.



| Pricrity 1 Storage Reservoir | AMART AND | | The second se | | | |
|--|-----------|-------------|---|-----------|--|--|
| 3A - Setness St, Quarry Ave, and Lanham Lane - Full Cost | Unit | Unit Price | Estimated Quantity | 2010 Cost | | |
| Install 8" lines (includes trenching, backfill, maint valves, hydrants, and fittings) | LF | \$80 | 4,600 | \$368,000 | | |
| Install 12" lines (includes trenching, backfill, maint valves, hydrants, and fittings) | LF | \$100 | 2,150 | \$215,000 | | |
| 5ft width Pavement Repair (4-inches thick) | LF | \$50 | 5,250 | \$262,500 | | |
| Traffic Control | LF | \$5 | 5,250 | \$26,250 | | |
| Subtotal | | | | \$871,750 | | |
| Mobilization | % | 6% | | \$52,305 | | |
| Total Construction Costs | | | | \$924,055 | | |
| Contingency as % of total construction costs | % | 35% | | \$323,000 | | |
| Engineering and CMS as % of total construction costs | % | 20% | | \$184,811 | | |
| Total Project Cost | | \$1,432,000 | | | | |
| 3B - Meridian Rd NE - Upsize Only | Unit | Unit Price | Estimated Quantity | 2010 Cost | | |
| Install 12" lines (includes trenching, backfill, maint valves, hydrants, and fittings) | LF | \$20 | 200 | \$4,000 | | |
| | | | | | | |
| Subtotal | | | | \$4,000 | | |
| Mobilization | % | 0% | | \$C | | |
| Total Construction Costs | | | | \$4,000 | | |
| Contingency as % of total construction costs | % | 0% | | \$0 | | |
| Engineering and CMS as % of total construction costs | % | 0% | | \$0 | | |
| Total Project Cost | | | \$4,000 | | | |
| 3C - Commerce Court and Industry Way - Upsize Only | Unit | Unit Price | Estimated Quantity | 2010 Cost | | |
| Install 8" lines (includes trenching, backfill, maint valves, hydrants, and fittings) | LF | \$80 | 300 | \$24,000 | | |
| Surface Repair | LF | \$50 | 100 | \$5,000 | | |
| Subtotal | | | | \$29,000 | | |
| Mobilization | % | 6% | | \$1,740 | | |
| Total Construction Costs | | | | \$30,740 | | |
| Contingency as % of total construction costs | % | 35% | | \$11,000 | | |
| Engineering and CMS as % of total construction costs | % | 20% | | \$6,148 | | |
| Total Project Cost | | | \$48,000 | | | |

| 3D - N. 1st Street from Jefferson Road to Hobart Road - Full Cost | Unit | Unit Price | Estimated Quantity | 2010 Cost |
|--|---|---|---|--|
| Install 10" lines (includes trenching, backfill, maint valves, hydrants, and fittings) | LF | \$90 | 1,400 | \$126,000 |
| 5ft width Pavement Repair (4-inches thick) | LF | \$50 | 1,400 | \$70,00 |
| Traffic Control | LF | \$5 | 1,400 | \$7,00 |
| | | | | |
| Subtotal | | | | \$203,000 |
| Mobilization | % | 6% | | \$12,18 |
| Total Construction Costs | | | | \$215,180 |
| Contingency as % of total construction costs | % | 35% | | \$75,00 |
| Engineering and CMS as % of total construction costs | % | 20% | | \$43,03 |
| Total Project Cost | | | \$334,000 | |
| 3E - Northwest 12-inch Loop (Hobart Road to Pine Street) - Upsize Only | Unit | Unit Price | Estimated Quantity | 2010 Cost |
| Install 10" lines (includes trenching, backfill, maint valves, hydrants, and fittings) | LF | \$10 | 600 | \$6,00 |
| Install 12" lines (includes trenching, backfill, maint valves, hydrants, and fittings) | LF | \$20 | 6,700 | \$134,00 |
| | | | | |
| Subtotal | | | | \$140,000 |
| Mobilization | % | 6% | | \$8,40 |
| Total Construction Costs | | | | \$148,40 |
| Contingency as % of total construction costs | % | 0% | | \$ |
| Engineering and CMS as % of total construction costs | % | 0% | | \$ |
| Total Project Cost | | | \$149 <i>,</i> 000 | |
| 3F - Pine Street from April Ln to Airport Rd Full Cost | Unit | Unit Price | Estimated | 2010 Cost |
| Install 12" lines (includes trenching, backfill, maint valves, hydrants, and fittings) | LF | \$100 | Quantity | \$290,00 |
| 5ft width Pavement Repair (4-inches thick) | LF | \$100 | 2,900 2,900 | \$290,00 |
| Traffic Control | LF | \$50 \$5 | 2,900 | \$145,00 |
| | LF | CÇ | 2,900 | \$14,50 |
| Subtotal | | | | \$449,50 |
| Mobilization | % | 6% | | \$26,97 |
| Total Construction Costs | 70 | 070 | | \$476,47 |
| Contingency as % of total construction costs | % | 35% | 1 | \$167,00 |
| | | | | |
| | % | | | |
| Engineering and CMS as % of total construction costs | % | 20% | \$739.000 | |
| Engineering and CMS as % of total construction costs Total Project Cost | | 20% | \$739,000 Estimated | \$95,29 |
| Engineering and CMS as % of total construction costs Total Project Cost 3G - West 12" line from Pine and April Ln, south to Railway Avenue - Upsize Only | Unit | 20% Unit Price | Estimated Quantity | \$95,29 2010 Cost |
| Engineering and CMS as % of total construction costs Total Project Cost 3G - West 12" line from Pine and April Ln, south to Railway Avenue - Upsize Only Install 8" lines (includes trenching, backfill, maint valves, hydrants, and fittings) - likely full cost | Unit LF | 20% Unit Price \$80 | Estimated Quantity 250 | \$95,29 2010 Cost \$20,00 |
| Engineering and CMS as % of total construction costs Total Project Cost 3G - West 12" line from Pine and April Ln, south to Railway Avenue - Upsize Only | Unit | 20% Unit Price | Estimated Quantity | \$95,29 2010 Cost \$20,00 |
| Engineering and CMS as % of total construction costs Total Project Cost 3G - West 12" line from Pine and April Ln, south to Railway Avenue - Upsize Only Install 8" lines (includes trenching, backfill, maint valves, hydrants, and fittings) - likely full cost Install 12" lines (includes trenching, backfill, maint valves, hydrants, and fittings) | Unit LF | 20% Unit Price \$80 | Estimated Quantity 250 | \$95,29 2010 Cost \$20,00 \$53,00 |
| Engineering and CMS as % of total construction costs Total Project Cost 3G - West 12" line from Pine and April Ln, south to Railway Avenue - Upsize Only Install 8" lines (includes trenching, backfill, maint valves, hydrants, and fittings) - likely full cost Install 12" lines (includes trenching, backfill, maint valves, hydrants, and fittings) Subtotal | Unit LF LF | 20% Unit Price \$80 \$20 | Estimated Quantity 250 | \$95,29 2010 Cost \$20,00 \$53,00 |
| Engineering and CMS as % of total construction costs Total Project Cost 3G - West 12" line from Pine and April Ln, south to Railway Avenue - Upsize Only Install 8" lines (includes trenching, backfill, maint valves, hydrants, and fittings) - likely full cost Install 12" lines (includes trenching, backfill, maint valves, hydrants, and fittings) Subtotal Mobilization | Unit LF | 20% Unit Price \$80 | Estimated Quantity 250 | \$95,29 2010 Cost \$20,00 \$53,00 \$73,000 \$ |
| Engineering and CMS as % of total construction costs Total Project Cost 3G - West 12" line from Pine and April Ln, south to Railway Avenue - Upsize Only Install 8" lines (includes trenching, backfill, maint valves, hydrants, and fittings) - likely full cost Install 12" lines (includes trenching, backfill, maint valves, hydrants, and fittings) Subtotal Mobilization Total Construction Costs | Unit LF LF | 20% Unit Price \$80 \$20 | Estimated Quantity 250 | \$95,29 2010 Cost \$20,00 \$53,00 \$73,000 \$73,000 |
| Engineering and CMS as % of total construction costs Total Project Cost GG - West 12" line from Pine and April Ln, south to Railway Avenue - Upsize Only Install 8" lines (includes trenching, backfill, maint valves, hydrants, and fittings) - likely full cost Install 12" lines (includes trenching, backfill, maint valves, hydrants, and fittings) Subtotal Mobilization Total Construction Costs Contingency as % of total construction costs | Unit LF LF | 20% Unit Price \$80 \$20 0% | Estimated Quantity 250 | \$95,29 2010 Cost \$20,00 \$53,00 \$73,000 \$73,000 \$73,000 \$73,000 \$73,000 \$73,000 \$73,000 \$73,000 |
| Engineering and CMS as % of total construction costs Total Project Cost 3G - West 12" line from Pine and April Ln, south to Railway Avenue - Upsize Only Install 8" lines (includes trenching, backfill, maint valves, hydrants, and fittings) - likely full cost Install 12" lines (includes trenching, backfill, maint valves, hydrants, and fittings) Subtotal Mobilization Total Construction Costs Contingency as % of total construction costs Engineering and CMS as % of total construction costs | Unit LF LF % | 20% Unit Price \$80 \$20 0% | Estimated Quantity 250 2,650 | \$95,29 |
| Engineering and CMS as % of total construction costs Total Project Cost 3G - West 12" line from Pine and April Ln, south to Railway Avenue - Upsize Only Install 8" lines (includes trenching, backfill, maint valves, hydrants, and fittings) - likely full cost Install 12" lines (includes trenching, backfill, maint valves, hydrants, and fittings) Subtotal Mobilization Total Construction Costs Contingency as % of total construction costs Engineering and CMS as % of total construction costs | Unit LF LF % % % | 20% Unit Price \$80 \$20 0% 0% 0% | Estimated Quantity 250 | \$95,29 2010 Cost \$20,00 \$53,00 \$73,000 \$73,000 \$ \$73,000 \$ \$73,000 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ |
| Engineering and CMS as % of total construction costs Total Project Cost 3G - West 12" line from Pine and April Ln, south to Railway Avenue - Upsize Only Install 8" lines (includes trenching, backfill, maint valves, hydrants, and fittings) - likely full cost Install 12" lines (includes trenching, backfill, maint valves, hydrants, and fittings) Subtotal Mobilization Total Construction Costs Contingency as % of total construction costs Engineering and CMS as % of total construction costs Aft - Low Pressure Zone Loop from Westfield and Center westward and north to Railway Avenue - Upsize Only | Unit LF LF | 20% Unit Price \$80 \$20 0% 0% 0% 0% Unit Price | Estimated Quantity 250 2,650 | \$95,29 2010 Cost \$20,00 \$53,00 \$73,000 \$ \$73,000 \$ \$73,000 \$ \$ 2010 Cost |
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| Engineering and CMS as % of total construction costs Total Project Cost G - West 12" line from Pine and April Ln, south to Railway Avenue - Upsize Only Install 8" lines (includes trenching, backfill, maint valves, hydrants, and fittings) - likely full cost Install 12" lines (includes trenching, backfill, maint valves, hydrants, and fittings) Subtotal Mobilization Total Construction Costs Contingency as % of total construction costs Engineering and CMS as % of total construction costs All - Low Pressure Zone Loop from Westfield and Center westward and north to Railway Avenue - Upsize Only Install 8" lines (includes trenching, backfill, maint valves, hydrants, and fittings) Install 10" lines (includes trenching, backfill, maint valves, hydrants, and fittings) Install 10" lines (includes trenching, backfill, maint valves, hydrants, and fittings) Install 10" lines (includes trenching, backfill, maint valves, hydrants, and fittings) Install 11" lines (includes trenching, backfill, maint valves, hydrants, and fittings) Install 12" lines (includes trenching, backfill, maint valves, hydrants, and fittings) Install 12" lines (includes trenching, backfill, maint valves, hydrants, and fittings) Install 12" lines (includes trenching, backfill, maint valves, hydrants, and fittings) Install 12" lines (includes trenching, backfill, maint valves, hydrants, and fittings) Install 12" lines (includes trenching, backfill, maint valves, hydrants, and fittings) Install 12" lines (includes trenching, backfill, maint valves, hydrants, and fittings) Install 12" lines (includes trenching, backfill, maint valves, hydrants, and fittings) Install 12" lines (includes trenching, backfill, maint valves, hydrants, and fittings) Install 12" lines (includes trenching, backfill, maint valves, hydrants, and fittings) Install 12" lines (includes trenching, backfill, maint valves, hydrants, and fittings) Install 10" lines (includes trenching, backfill, maint valves, hydrants, and fittings) Install 10" lines (includes trenching, backfill, maint | Unit LF LF % % % % Unit LF LF LF LF % % % % % Unit Unit Unit | 20% Unit Price \$80 \$20 0% 0% 0% 0% 0% \$10 \$20 \$10 \$20 0% 0% 0% 0% 0% | Estimated Quantity 250 2,650 2,650 2,650 2,650 2,650 2,650 2,650 2,650 2,650 2,650 2,650 2,650 2,650 2,650 2,650 2,000 950 4,200 950 4,200 950 4,200 950 4,200 950 4,200 950 2,561,000 Estimated Quantity 300 | \$95,25 2010 Cost \$20,00 \$53,00 \$53,00 \$773, |
| Engineering and CMS as % of total construction costs Total Project Cost G-West 12" line from Pine and April Ln, south to Railway Avenue - Upsize Only Install 8" lines (includes trenching, backfill, maint valves, hydrants, and fittings) - likely full cost Install 12" lines (includes trenching, backfill, maint valves, hydrants, and fittings) Subtotal Mobilization Total Construction Costs Contingency as % of total construction costs Engineering and CMS as % of total construction costs 34 - Low Pressure Zone Loop from Westfield and Center westward and north to Railway Avenue - Upsize Only Install 8" lines (includes trenching, backfill, maint valves, hydrants, and fittings) Install 10" lines (includes trenching, backfill, maint valves, hydrants, and fittings) Install 10" lines (includes trenching, backfill, maint valves, hydrants, and fittings) Install 12" lines (includes trenching, backfill, maint valves, hydrants, and fittings) Install 12" lines (includes trenching, backfill, maint valves, hydrants, and fittings) Install 12" lines (includes trenching, backfill, maint valves, hydrants, and fittings) Install 12" lines (includes trenching, backfill, maint valves, hydrants, and fittings) Install 12" lines (includes trenching, backfill, maint valves, hydrants, and fittings) Install 12" lines (includes trenching, backfill, maint valves, hydrants, and fittings) Install 12" lines (includes trenching, backfill, maint valves, hydrants, and fittings) Install 12" lines (includes trenching, backfill, maint valves, hydrants, and fittings) Install 12" lines (includes trenching, backfill, maint valves, hydrants, and fittings) Install 12" lines (includes trenching, backfill, maint valves, hydrants, and fittings) Install 10" lines (includes trenching, backfill, maint valves, hydrants, and fittings) Install 10" lines (includes trenching, backfill, maint valves, hydrants, and fittings) Install 10" lines (includes trenching, backfill, maint valves, hydrants, and fittings) Install 10" lines (includes trenching, backfill, maint valve | Unit LF LF % % % % Unit LF LF LF LF % % % % % Unit Unit Unit | 20% Unit Price \$80 \$20 0% 0% 0% 0% 0% \$10 \$20 \$10 \$20 0% 0% 0% 0% 0% | Estimated Quantity 250 2,650 2,650 2,650 2,650 2,650 2,650 2,650 2,650 2,650 2,650 2,650 2,650 2,650 2,650 2,650 2,000 950 4,200 950 4,200 950 4,200 950 4,200 950 4,200 950 2,561,000 Estimated Quantity 300 | \$95,25 2010 Cost \$20,00 \$53,00 \$53,00 \$70,00 \$73,00 \$70,000 \$70,00 |
| Engineering and CMS as % of total construction costs Total Project Cost 3G - West 12" line from Pine and April Ln, south to Railway Avenue - Upsize Only Install 8" lines (includes trenching, backfill, maint valves, hydrants, and fittings) - likely full cost Install 12" lines (includes trenching, backfill, maint valves, hydrants, and fittings) Subtotal Mobilization Total Construction Costs Contingency as % of total construction costs Engineering and CMS as % of total construction costs Total Project Cost 3H - Low Pressure Zone Loop from Westfield and Center westward and north to Railway Avenue - Upsize Only Install 8" lines (includes trenching, backfill, maint valves, hydrants, and fittings) Install 10" lines (includes trenching, backfill, maint valves, hydrants, and fittings) Install 10" lines (includes trenching, backfill, maint valves, hydrants, and fittings) Install 12" lines (includes trenching, backfill, maint valves, hydrants, and fittings) Install 12" lines (includes trenching, backfill, maint valves, hydrants, and fittings) Install 12" lines (includes trenching, backfill, maint valves, hydrants, and fittings) Install 12" lines (includes trenching, backfill, maint valves, hydrants, and fittings) Install 12" lines (includes trenching, backfill, maint valves, hydrants, and fittings) Install 12" lines (includes trenching, backfill, maint valves, hydrants, and fittings) Install 12" lines (includes trenching, backfill, maint valves, hydrants, and fittings) Install 12" lines (includes trenching, backfill, maint valves, hydrants, and fittings) Install 10" lines (includes trenching, backfill, maint valves, hydrants, and fittings) Install 10" lines (includes trenching, backfill, maint valves, hydrants, and fittings) Install 10" lines (includes trenching, backfill, maint valves, hydrants, and fittings) Install 10" lines (includes trenching, backfill, maint valves, hydrants, and fittings) Install 10" lines (includes trenching, backfill, maint valves, hydrants, and fittings) Install 10" lines (includes trenching | Unit LF LF 3 % % % Unit LF LF LF 4 % 3 % 3 % 1 0 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 | 20% Unit Price \$80 \$20 0% 0% 0% 0% Unit Price \$0 \$10 \$20 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% | Estimated Quantity 250 2,650 2,650 2,650 2,650 2,650 2,650 2,650 2,650 2,650 2,650 2,650 2,650 2,650 2,650 2,650 2,000 950 4,200 950 4,200 950 4,200 950 4,200 950 4,200 950 2,561,000 Estimated Quantity 300 | \$95,29 2010 Cost \$20,00 \$53,00 \$53,00 \$70,00 \$70,000 \$70,00 |
| Engineering and CMS as % of total construction costs Total Project Cost 3G - West 12" line from Pine and April Ln, south to Railway Avenue - Upsize Only Install 8" lines (includes trenching, backfill, maint valves, hydrants, and fittings) - likely full cost Install 12" lines (includes trenching, backfill, maint valves, hydrants, and fittings) Subtotal Mobilization Total Construction Costs Contingency as % of total construction costs Engineering and CMS as % of total construction costs 3H - Low Pressure Zone Loop from Westfield and Center westward and north to Railway Avenue - Upsize Only Install 8" lines (includes trenching, backfill, maint valves, hydrants, and fittings) Install 10" lines (includes trenching, backfill, maint valves, hydrants, and fittings) Subtotal Mobilization Total Construction Costs Contingency as % of total construction costs Engineering and CMS as % of total construction costs Engineering and CMS as % of total construction costs Contingency as % of total construction costs Engineering and CMS as % of total construction costs Engineering and CMS as % of total construction costs Subtotal Mobilization Total Construction Costs Contingency as % of total construction costs Engineering and CMS as % of total construction costs Engineering and CMS as % of total construction costs Engineering and CMS as % of total construction costs Engineering and CMS as % of total construction costs Engineering and CMS as % of total construction costs Engineering and CMS as % of total construction costs Engineering and CMS as % of total construction costs Engineering and CMS as % of total construction costs Engineering and Substudie free Department - Full Cost 3I - 10" Connection from Safeway to Fire Department - Full Cost Subtotal Mobilization | Unit LF LF % % % % Unit LF LF LF 4 % % % % % Unit LF LF LF LF LF LF LF LF | 20% Unit Price \$80 \$20 0% 0% 0% 0% Unit Price \$0 \$10 \$20 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% | Estimated Quantity 250 2,650 2,650 2,650 2,650 2,650 2,650 2,650 2,650 2,650 2,650 2,650 2,650 2,650 2,650 2,650 2,000 950 4,200 950 4,200 950 4,200 950 4,200 950 4,200 950 2,561,000 Estimated Quantity 300 | \$95,29 2010 Cost \$20,00 \$53,00 \$74,00 \$74,00 \$74,00 \$74,00 \$74,00 \$74,00 \$75,00 \$75,00 \$75,00 \$75,00 \$75,00 \$75,00 \$75,0000 \$75,0000 \$75,0000 \$75,0000 \$75,0000 \$75,0000 \$75,000 |

| 3J - Transmission from New PRV to Anderson PRV Zone - Full Cost | Unit | Unit Price | Estimated Quantity | 2010 Cost |
|---|--|---|--|---|
| Install 8" lines (includes trenching, backfill, maint valves, hydrants, and fittings) | LF | \$80 | 1,800 | \$144,00 |
| Install 10" lines (includes trenching, backfill, maint valves, hydrants, and fittings) | LF | \$90 | 4,200 | \$378,00 |
| Install 12" lines (includes trenching, backfill, maint valves, hydrants, and fittings) | LF | \$100 | 2,200 | \$220,00 |
| 5ft width Pavement Repair (4-inches thick) | LF | \$50 | 8,200 | \$410,00 |
| Traffic Control | LF | \$5 | 8,200 | \$41,00 |
| Subtotal | | | | \$1,193,00 |
| Mobilization | % | 6% | | \$71,58 |
| Total Construction Costs | | | | \$1,264,58 |
| Contingency as % of total construction costs | % | 35% | | \$443,00 |
| Engineering and CMS as % of total construction costs | % | 20% | | \$252,91 |
| Total Project Cost | | | \$1,961,000 | |
| Total Project Cost | | | Estimated | |
| 3K - Cherry Street From Phelps to Welch - Full Cost | Unit | Unit Price | Quantity | 2010 Cost |
| Install 8" lines (includes trenching, backfill, maint valves, hydrants, and fittings) | LF | \$80 | 350 | \$28,00 |
| 5ft width Pavement Repair (4-inches thick) | LF | \$50 | 350 | \$17,50 |
| Traffic Control | LF | \$5 | 350 | \$1,75 |
| Subtotal | | ÷ C | | \$47,25 |
| Mobilization | % | 6% | | \$2,83 |
| Total Construction Costs | 70 | 070 | | \$50,08 |
| | 07 | 250/ | + + | |
| Contingency as % of total construction costs | % | 35% | + + | \$18,00 |
| Engineering and CMS as % of total construction costs | % | 20% | | \$10,01 |
| Total Project Cost | | | \$79,000 | |
| 3L - James St from Western to Pine - Full Cost | Unit | Unit Price | Estimated | 2010 Cost |
| | 1.5 | <u> </u> | Quantity | 6474.00 |
| Install 10" lines (includes trenching, backfill, maint valves, hydrants, and fittings) | LF | \$90 | 1,900 | \$171,00 |
| 5ft width Pavement Repair (4-inches thick) | LF | \$50 | 1,900 | \$95,00 |
| Traffic Control | LF | \$5 | 1,900 | \$9,50 |
| | | | | |
| Subtotal | | | | \$275,50 |
| Mobilization | % | 6% | | \$16,53 |
| Total Construction Costs | | | | \$292,03 |
| Contingency as % of total construction costs | % | 35% | | \$102,00 |
| | | | | ć_0_40 |
| Engineering and CMS as % of total construction costs | % | 20% | | \$58 <i>,</i> 40 |
| | - | 20% | \$453.000 | \$58,40 |
| Total Project Cost | | | \$453,000 | |
| | - | 20% Unit Price | \$453,000 Estimated Quantity | \$58,40 |
| Total Project Cost | | | Estimated | 2010 Cost |
| Total Project Cost 3M - Loop around old high school site - Upsize Only | Unit | Unit Price | Estimated Quantity | 2010 Cost |
| Total Project Cost 3M - Loop around old high school site - Upsize Only | Unit | Unit Price | Estimated Quantity | 2010 Cost |
| Total Project Cost 3M - Loop around old high school site - Upsize Only Install 8" lines (includes trenching, backfill, maint valves, hydrants, and fittings) | Unit | Unit Price | Estimated Quantity | <mark>2010 Cost</mark> د \$ |
| Total Project Cost 3M - Loop around old high school site - Upsize Only Install 8" lines (includes trenching, backfill, maint valves, hydrants, and fittings) Subtotal | LF | Unit Price \$0 | Estimated Quantity | <mark>2010 Cost</mark> د ډ ډ |
| Total Project Cost Subtotal Subtotal Mobilization Total Construction Costs | LF | Unit Price \$0 | Estimated Quantity | <mark>2010 Cost</mark> د د د د د د د د د د د د د د د د د د د |
| Total Project Cost Subtool site - Upsize Only Install 8" lines (includes trenching, backfill, maint valves, hydrants, and fittings) Subtotal Mobilization Total Construction Costs Contingency as % of total construction costs | Unit LF | Unit Price \$0 5% 0% | Estimated Quantity | 2010 Cost \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ |
| Total Project Cost 3M - Loop around old high school site - Upsize Only Install 8" lines (includes trenching, backfill, maint valves, hydrants, and fittings) Subtotal Mobilization Total Construction Costs Contingency as % of total construction costs Engineering and CMS as % of total construction costs | Unit LF | Unit Price \$0 5% | Estimated Quantity 2,200 | 2010 Cost \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ |
| Total Project Cost Subtool site - Upsize Only Install 8" lines (includes trenching, backfill, maint valves, hydrants, and fittings) Subtotal Mobilization Total Construction Costs Contingency as % of total construction costs | Unit LF | Unit Price \$0 5% 0% | Estimated Quantity 2,200 | <mark>2010 Cost</mark> د چ د پ پ پ |
| Total Project Cost 3M - Loop around old high school site - Upsize Only Install 8" lines (includes trenching, backfill, maint valves, hydrants, and fittings) Subtotal Mobilization Total Construction Costs Contingency as % of total construction costs Engineering and CMS as % of total construction costs | Unit LF | Unit Price \$0 5% 0% | Estimated Quantity 2,200 | <mark>2010 Cost</mark> د چ د پ پ پ |
| Total Project Cost Subtotal Mobilization Total Construction Costs Contingency as % of total construction costs Engineering and CMS as % of total construction costs SN - N. 2nd from C Street to TJ Lane - Full Cost | Unit LF % % % % % | Unit Price \$0 5% 0% 0% 0% | Estimated Quantity 2,200 | 2010 Cost \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ |
| Total Project Cost SM - Loop around old high school site - Upsize Only Install 8" lines (includes trenching, backfill, maint valves, hydrants, and fittings) Subtotal Mobilization Total Construction Costs Contingency as % of total construction costs Engineering and CMS as % of total construction costs Total Project Cost 3N - N. 2nd from C Street to TJ Lane - Full Cost Install 8" lines (includes trenching, backfill, maint valves, hydrants, and fittings) | Unit LF | Unit Price \$0 5% 0% 0% 0% Unit Price \$80 | Estimated Quantity 2,200 2,200 5 0 5 0 Estimated Quantity 1,800 | 2010 Cost \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ |
| Total Project Cost Motion Project Cost Subtotal Install 8" lines (includes trenching, backfill, maint valves, hydrants, and fittings) Subtotal Mobilization Total Construction Costs Contingency as % of total construction costs Engineering and CMS as % of total construction costs Total Project Cost Total Project Cost Install 8" lines (includes trenching, backfill, maint valves, hydrants, and fittings) Install 8" lines (includes trenching, backfill, maint valves, hydrants, and fittings) Install 10" lines (includes trenching, backfill, maint valves, hydrants, and fittings) | Unit LF | Unit Price \$0 5% 0% 0% 0% Unit Price \$80 \$90 | Estimated Quantity 2,200 2,200 5 0 5 0 Estimated Quantity 1,800 1,000 | 2010 Cost |
| Total Project Cost SM - Loop around old high school site - Upsize Only Install 8" lines (includes trenching, backfill, maint valves, hydrants, and fittings) Subtotal Mobilization Total Construction Costs Contingency as % of total construction costs Engineering and CMS as % of total construction costs Total Project Cost 3N - N. 2nd from C Street to TJ Lane - Full Cost Install 8" lines (includes trenching, backfill, maint valves, hydrants, and fittings) Install 10" lines (includes trenching, backfill, maint valves, hydrants, and fittings) Sft width Pavement Repair (4-inches thick) | Unit LF | Unit Price \$0 5% 0% 0% 0% 0% 5% | Estimated Quantity 2,200 2,200 5 0 5 0 Estimated Quantity 1,800 1,000 2,800 | 2010 Cost \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ |
| Total Project Cost Motion Project Cost Subtotal Install 8" lines (includes trenching, backfill, maint valves, hydrants, and fittings) Subtotal Mobilization Total Construction Costs Contingency as % of total construction costs Engineering and CMS as % of total construction costs Total Project Cost Total Project Cost Install 8" lines (includes trenching, backfill, maint valves, hydrants, and fittings) Install 8" lines (includes trenching, backfill, maint valves, hydrants, and fittings) Install 10" lines (includes trenching, backfill, maint valves, hydrants, and fittings) | Unit LF | Unit Price \$0 5% 0% 0% 0% Unit Price \$80 \$90 | Estimated Quantity 2,200 2,200 5 0 5 0 Estimated Quantity 1,800 1,000 | 2010 Cost \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ |
| Total Project Cost Subcost Subtotal Mobilization Total Construction Costs Contingency as % of total construction costs Engineering and CMS as % of total construction costs Total Project Cost Subtotal Mobilization Total Construction Costs Contingency as % of total construction costs Engineering and CMS as % of total construction costs Total Project Cost SIN - N. 2nd from C Street to TJ Lane - Full Cost Install 8" lines (includes trenching, backfill, maint valves, hydrants, and fittings) Install 10" lines (includes trenching, backfill, maint valves, hydrants, and fittings) Sft width Pavement Repair (4-inches thick) Traffic Control | Unit LF | Unit Price \$0 5% 0% 0% 0% 0% 5% | Estimated Quantity 2,200 2,200 5 0 5 0 Estimated Quantity 1,800 1,000 2,800 | 2010 Cost |
| Total Project Cost 3M - Loop around old high school site - Upsize Only Install 8" lines (includes trenching, backfill, maint valves, hydrants, and fittings) Subtotal Mobilization Total Construction Costs Contingency as % of total construction costs Engineering and CMS as % of total construction costs Total Project Cost 3N - N. 2nd from C Street to TJ Lane - Full Cost Install 8" lines (includes trenching, backfill, maint valves, hydrants, and fittings) Install 10" lines (includes trenching, backfill, maint valves, hydrants, and fittings) Sft width Pavement Repair (4-inches thick) Traffic Control Subtotal | Unit LF - - - - - - - - - - - - - | Unit Price \$0 5% 0% 0% 0% Unit Price \$80 \$90 \$50 \$5 | Estimated Quantity 2,200 2,200 5 0 5 0 Estimated Quantity 1,800 1,000 2,800 | 2010 Cost |
| Total Project Cost 3M - Loop around old high school site - Upsize Only Install 8" lines (includes trenching, backfill, maint valves, hydrants, and fittings) Subtotal Mobilization Total Construction Costs Contingency as % of total construction costs Engineering and CMS as % of total construction costs Total Project Cost 3N - N. 2nd from C Street to TJ Lane - Full Cost Install 8" lines (includes trenching, backfill, maint valves, hydrants, and fittings) Install 10" lines (includes trenching, backfill, maint valves, hydrants, and fittings) Sft width Pavement Repair (4-inches thick) Traffic Control Subtotal Mobilization | Unit LF | Unit Price \$0 5% 0% 0% 0% 0% 5% | Estimated Quantity 2,200 2,200 5 0 5 0 Estimated Quantity 1,800 1,000 2,800 | 2010 Cost \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ |
| Total Project Cost 3M - Loop around old high school site - Upsize Only Install 8" lines (includes trenching, backfill, maint valves, hydrants, and fittings) Subtotal Mobilization Total Construction Costs Contingency as % of total construction costs Engineering and CMS as % of total construction costs Total Project Cost 3N - N. 2nd from C Street to TJ Lane - Full Cost Install 8" lines (includes trenching, backfill, maint valves, hydrants, and fittings) Install 10" lines (includes trenching, backfill, maint valves, hydrants, and fittings) Sft width Pavement Repair (4-inches thick) Traffic Control Subtotal | Unit LF - - - - - - - - - - - - - | Unit Price \$0 5% 0% 0% 0% Unit Price \$80 \$90 \$50 \$5 | Estimated Quantity 2,200 2,200 5 0 5 0 Estimated Quantity 1,800 1,000 2,800 | 2010 Cost \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ |
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| Total Project Cost M - Loop around old high school site - Upsize Only Install 8" lines (includes trenching, backfill, maint valves, hydrants, and fittings) Subtotal Mobilization Total Construction Costs Contingency as % of total construction costs Engineering and CMS as % of total construction costs Total Project Cost 3N - N. 2nd from C Street to TJ Lane - Full Cost Install 8" lines (includes trenching, backfill, maint valves, hydrants, and fittings) Install 8" lines (includes trenching, backfill, maint valves, hydrants, and fittings) St width Pavement Repair (4-inches thick) Traffic Control Subtotal Mobilization Total Construction costs Contingency as % of total construction costs Contingency as % of total construction costs Engineering and CMS as % of total construction costs Engineering and CMS as % of total construction costs Engineering and CMS as % of total construction costs Total Project Cost Total Project Cost | Unit LF % % % % % Unit LF LF LF LF LF 4 % % % % | Unit Price \$0 5% 0% 0% 0% 0% 0% 50 \$50 \$50 \$50 \$50 \$50 | Estimated Quantity 2,200 2,200 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 2010 Cost \$ \$ \$ \$ 2010 Cost \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ |
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| Total Project Cost 3M - Loop around old high school site - Upsize Only Install 8" lines (includes trenching, backfill, maint valves, hydrants, and fittings) Subtotal Mobilization Total Construction Costs Contingency as % of total construction costs Engineering and CMS as % of total construction costs Total Project Cost 3N - N. 2nd from C Street to TJ Lane - Full Cost Install 8" lines (includes trenching, backfill, maint valves, hydrants, and fittings) Install 10" lines (includes trenching, backfill, maint valves, hydrants, and fittings) Sth width Pavement Repair (4-inches thick) Traffic Control Subtotal Mobilization Total Construction costs Contingency as % of total construction costs | Unit LF | Unit Price \$0 5% 0% 0% 0% 0% 50 \$50 \$50 \$50 \$50 \$50 \$50 \$50 \$50 \$50 | Estimated Quantity 2,200 2,200 2,200 1 1 1 1 1 1 1 1 1 1,800 1 | 2010 Cost |
| Total Project Cost 3M - Loop around old high school site - Upsize Only Install 8" lines (includes trenching, backfill, maint valves, hydrants, and fittings) Subtotal Mobilization Total Construction Costs Contingency as % of total construction costs Engineering and CMS as % of total construction costs Total Project Cost 3N - N. 2nd from C Street to TJ Lane - Full Cost Install 8" lines (includes trenching, backfill, maint valves, hydrants, and fittings) Install 10" lines (includes trenching, backfill, maint valves, hydrants, and fittings) St width Pavement Repair (4-inches thick) Traffic Control Subtotal Mobilization Total Construction Costs Contingency as % of total construction costs Engineering and CMS as % of total construction costs Subtotal Mobilization Total Construction Costs Contingency as % of total construction costs Engineering and CMS as % of total construction costs Engineering and CMS as % of total construction costs Total Project Cost 30 - N. 1st from A to C and Front St from A to C - Full Cost Install 8" lines (includes trenching, backfill, m | Unit LF | Unit Price \$0 5% 0% 0% 0% 0% 50 \$50 \$50 \$50 \$50 \$50 \$50 \$50 \$50 \$50 | Estimated Quantity 2,200 2,200 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1,800 1,000 2,800 2,800 2,800 2,800 1 1 1 1 1 2,800 2,800 1 | 2010 Cost |
| Total Project Cost 3M - Loop around old high school site - Upsize Only Install 8" lines (includes trenching, backfill, maint valves, hydrants, and fittings) Subtotal Mobilization Total Construction Costs Contingency as % of total construction costs Engineering and CMS as % of total construction costs Total Project Cost AN - N. 2nd from C Street to TJ Lane - Full Cost Install 8" lines (includes trenching, backfill, maint valves, hydrants, and fittings) Install 10" lines (includes trenching, backfill, maint valves, hydrants, and fittings) Sibtotal Mobilization Total Construction Costs Contingency as % of total construction costs Engineering and CMS as % of total construction costs Contingency as % of total construction costs Contingency as % o | Unit LF | Unit Price \$0 5% 0% 0% 0% 0% 50 \$50 \$50 \$50 \$50 \$50 \$50 \$50 \$50 \$50 | Estimated Quantity 2,200 2,200 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1,800 1,000 2,800 2,800 2,800 2,800 1 1 1 1 1 2,800 2,800 1 | 2010 Cost |
| Total Project Cost 3M - Loop around old high school site - Upsize Only Install 8" lines (includes trenching, backfill, maint valves, hydrants, and fittings) Subtotal Mobilization Total Construction Costs Contingency as % of total construction costs Total Project Cost 3N - N. 2nd from C Street to TJ Lane - Full Cost Install 8" lines (includes trenching, backfill, maint valves, hydrants, and fittings) Install 10" lines (includes trenching, backfill, maint valves, hydrants, and fittings) Sitt width Pavement Repair (4-inches thick) Total Construction Costs Subtotal Mobilization Total Construction costs Total Project Cost Subtotal Mobilization Total Construction costs Total Project Cost Subtotal Mobilization Total Project Cost Subtotal Subtotal construction costs Engineering and CMS as % of total construction costs Engineering and CMS as % of total con | Unit LF | Unit Price \$0 5% 0% 0% 0% 50 \$50 \$50 \$50 \$50 35% 20% Unit Price \$80 \$50 20% | Estimated Quantity 2,200 2,200 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1,800 1,000 2,800 2,800 2,800 2,800 1 1 1 1 1 2,800 2,800 1 | 2010 Cost |
| <th< td=""><td>Unit LF </td><td>Unit Price \$0 5% 0% 0% 0% 0% 50 \$50 \$50 \$50 \$50 \$50 \$50 \$50 \$50 \$50</td><td>Estimated Quantity 2,200 2,200 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1,800 1,000 2,800 2,800 2,800 2,800 1 1 1 1 1 2,800 2,800 1</td><td>2010 Cost \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$</td></th<> | Unit LF | Unit Price \$0 5% 0% 0% 0% 0% 50 \$50 \$50 \$50 \$50 \$50 \$50 \$50 \$50 \$50 | Estimated Quantity 2,200 2,200 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1,800 1,000 2,800 2,800 2,800 2,800 1 1 1 1 1 2,800 2,800 1 | 2010 Cost \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ |
| Total Project Cost 3M - Loop around old high school site - Upsize Only Install 8" lines (includes trenching, backfill, maint valves, hydrants, and fittings) Subtotal Mobilization Total Construction Costs Contingency as % of total construction costs Engineering and CMS as % of total construction costs Total Project Cost 3N - N. 2nd from C Street to TJ Lane - Full Cost Install 8" lines (includes trenching, backfill, maint valves, hydrants, and fittings) Install 10" lines (includes trenching, backfill, maint valves, hydrants, and fittings) Sift width Pavement Repair (4-inches thick) Traffic Control Subtotal Mobilization Total Project Cost Total Project Cost Contingency as % of total construction costs Engineering and CMS as % of total construction costs Contingency as % of total construction costs Total Project Cost 30 - N. 1st from A to C and Front St from A to C - Full Cost Install 8" lines (includes trenching, backfill, maint valves, hydrants, and fittings) | Unit LF | Unit Price \$0 5% 0% 0% 0% 0% 50 \$50 \$50 \$50 \$50 \$50 \$50 \$50 \$50 \$50 | Estimated Quantity 2,200 2,200 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1,800 1,000 2,800 2,800 2,800 2,800 1 1 1 1 1 2,800 2,800 1 | 2010 Cost \$ \$ \$ \$ 2010 Cost \$ \$ 2010 Cost \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ |
| <th< td=""><td>Unit LF </td><td>Unit Price \$0 5% 0% 0% 0% 50 \$50 \$50 \$50 \$50 35% 20% Unit Price \$80 \$50 20%</td><td>Estimated Quantity 2,200 2,200 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1,800 1,000 2,800 2,800 2,800 2,800 1 1 1 1 1 2,800 2,800 1</td><td>2010 Cost \$ \$ \$ \$ 2010 Cost \$ 2010 Cost \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$</td></th<> | Unit LF | Unit Price \$0 5% 0% 0% 0% 50 \$50 \$50 \$50 \$50 35% 20% Unit Price \$80 \$50 20% | Estimated Quantity 2,200 2,200 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1,800 1,000 2,800 2,800 2,800 2,800 1 1 1 1 1 2,800 2,800 1 | 2010 Cost \$ \$ \$ \$ 2010 Cost \$ 2010 Cost \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ |

| 3P - N. 2nd from Main to B St - Full Cost | Unit | Unit Price | Estimated Quantity | 2010 Cost |
|---|---------------------------------------|---|---|--|
| Install 8" lines (includes trenching, backfill, maint valves, hydrants, and fittings) | LF | \$80 | 1,400 | \$112,00 |
| 5ft width Pavement Repair (4-inches thick) | LF | \$50 | 1,400 | \$70,00 |
| Traffic Control | LF | \$5 | 1,400 | \$7,00 |
| | | | | |
| Subtotal | | | | \$189,00 |
| Mobilization | % | 6% | | \$11,34 |
| Total Construction Costs | | | | \$200,34 |
| Contingency as % of total construction costs | % | 35% | | \$70,00 |
| Engineering and CMS as % of total construction costs | % | 20% | | \$40,06 |
| Total Project Cost | | | \$311,000 | |
| 3Q - Water St from Peach to Brown St, then on Brown from N Webb to Schlador - Full Cost | Unit | Unit Price | Estimated | 2010 Cost |
| | | | Quantity | |
| Install 8" lines (includes trenching, backfill, maint valves, hydrants, and fittings) | LF | \$80 | 500 | \$40,00 |
| Install 10" lines (includes trenching, backfill, maint valves, hydrants, and fittings) | LF | \$90 | 5,100 | \$459,00 |
| Install 12" lines (includes trenching, backfill, maint valves, hydrants, and fittings) | LF | \$100 | 2,300 | \$230,00 |
| 5ft width Pavement Repair (4-inches thick) | LF | \$50 | 7,900 | \$395,00 |
| Traffic Control | LF | \$5 | 7,900 | \$39,50 |
| Culture | | | | ¢4.462.50 |
| Subtotal | 07 | <u>c</u> 0/ | + | \$1,163,50 |
| Mobilization | % | 6% | + | \$69,81 |
| Total Construction Costs | 07 | 250/ | ╂────┤ | \$1,233,310 |
| Contingency as % of total construction costs | % | 35% | + | \$432,00 |
| Engineering and CMS as % of total construction costs | % | 20% | | \$246,66 |
| Total Project Cost | | | \$1,912,000 | |
| 3R - Anderson PRV Zone Loop from Westfield and Center westward and northeast to Westfield and Main - Upsize Only | Unit | Unit Price | Estimated | 2010 Cost |
| Install 10" lines (includes trenching, backfill, maint valves, hydrants, and fittings) | LF | \$10 | Quantity 4,500 | \$45,00 |
| Install 12" lines (includes trenching, backfill, maint valves, hydrants, and fittings) | LF | \$20 | 1,600 | \$32,00 |
| | LI | <i>Υ</i> Ζ0 | 1,000 | Ş32,00 |
| Subtotal | | | | \$77,000 |
| Mobilization | % | 0% | | \$ |
| Total Construction Costs | 70 | 070 | | \$77,000 |
| Contingency as % of total construction costs | % | 0% | | <i>\$77,00</i> 0 |
| Engineering and CMS as % of total construction costs | % | 0% | | ې ډ |
| | 70 | 070 | | ŶŸ |
| Total Project Cost | | | \$77,000 Estimated | |
| 3S - Future Pioneer Rd Alignment from Crestview Dr to Oak St - Upsize Only | Unit | Unit Price | Quantity | 2010 Cost |
| Install 8" lines (includes trenching, backfill, maint valves, hydrants, and fittings) | LF | \$0 | 500 | Şi |
| Install 12" lines (includes trenching, backfill, maint valves, hydrants, and fittings) | LF | \$20 | 3,500 | \$70,00 |
| | | | | |
| Subtotal | | | | \$70,000 |
| Mobilization | % | 0% | | Ş |
| Total Construction Costs | | | | \$70,000 |
| Contingency as % of total construction costs | % | 0% | | Şi |
| Engineering and CMS as % of total construction costs | % | 0% | | Şi |
| Total Project Cost | | | \$70,000 | |
| | | | Estimated | |
| 3T - Future Pioneer Rd Alignment from Skookum Dr and Eastview Lane to Evans Valley Rd - Upsize Only | Unit | Unit Price | Quantity | 2010 Cost |
| Install 10" lines (includes trenching, backfill, maint valves, hydrants, and fittings) | LF | \$10 | 1,400 | \$14,00 |
| Install 12" lines (includes trenching, backfill, maint valves, hydrants, and fittings) | LF | \$20 | 2,000 | \$40,00 |
| | | | | |
| | | | | \$54,000 |
| Subtotal | | | | \$ |
| Subtotal Mobilization | % | 0% | | ĆE 4.00 |
| | % | 0% | | \$54,000 |
| Mobilization | % | 0% | | |
| Mobilization Total Construction Costs | | | | <i>\$54,000 \$</i> \$ \$ |
| Mobilization Total Construction Costs Contingency as % of total construction costs Engineering and CMS as % of total construction costs | % | 0% | \$54.000 | \$ |
| Mobilization Total Construction Costs Contingency as % of total construction costs Engineering and CMS as % of total construction costs Total Project Cost | % | 0% 0% | \$54,000 Estimated | \$ \$ |
| Mobilization Total Construction Costs Contingency as % of total construction costs Engineering and CMS as % of total construction costs Total Project Cost 3U - Eastview from Tillicum to Storage Reservoir - Full Cost | % | 0% | - | \$ |
| Mobilization Total Construction Costs Contingency as % of total construction costs Engineering and CMS as % of total construction costs Total Project Cost 3U - Eastview from Tillicum to Storage Reservoir - Full Cost Install 8" lines (includes trenching, backfill, maint valves, hydrants, and fittings) | % | 0% 0% | Estimated | \$ \$ 2010 Cost \$144,00 |
| Mobilization Total Construction Costs Contingency as % of total construction costs Engineering and CMS as % of total construction costs Total Project Cost JU - Eastview from Tillicum to Storage Reservoir - Full Cost Install 8" lines (includes trenching, backfill, maint valves, hydrants, and fittings) Sft width Pavement Repair (4-inches thick) | % % Unit LF LF | 0% 0% Unit Price \$80 \$50 | Estimated Quantity 1,800 1,800 | \$ \$ 2010 Cost \$144,00 \$90,00 |
| Mobilization Total Construction Costs Contingency as % of total construction costs Engineering and CMS as % of total construction costs Total Project Cost 3U - Eastview from Tillicum to Storage Reservoir - Full Cost Install 8" lines (includes trenching, backfill, maint valves, hydrants, and fittings) | % % Unit LF | 0% 0% Unit Price \$80 | Estimated Quantity 1,800 | \$ \$ 2010 Cost \$144,00 \$90,00 |
| Mobilization Total Construction Costs Contingency as % of total construction costs Engineering and CMS as % of total construction costs Total Project Cost JU - Eastview from Tillicum to Storage Reservoir - Full Cost Install 8" lines (includes trenching, backfill, maint valves, hydrants, and fittings) Sft width Pavement Repair (4-inches thick) | % % Unit LF LF | 0% 0% Unit Price \$80 \$50 | Estimated Quantity 1,800 1,800 | 2010 Cost \$144,00 \$90,00 |
| Mobilization Total Construction Costs Contingency as % of total construction costs Engineering and CMS as % of total construction costs Total Project Cost JU - Eastview from Tillicum to Storage Reservoir - Full Cost Install 8" lines (includes trenching, backfill, maint valves, hydrants, and fittings) Sft width Pavement Repair (4-inches thick) | % % Unit LF LF | 0% 0% Unit Price \$80 \$50 \$5 | Estimated Quantity 1,800 1,800 | \$ 2010 Cost \$144,00 \$90,00 \$9,00 \$9,00 \$243,00 |
| Mobilization Total Construction Costs Contingency as % of total construction costs Engineering and CMS as % of total construction costs Total Project Cost JU - Eastview from Tillicum to Storage Reservoir - Full Cost Install 8" lines (includes trenching, backfill, maint valves, hydrants, and fittings) 5ft width Pavement Repair (4-inches thick) Traffic Control | % % Unit LF LF | 0% 0% Unit Price \$80 \$50 | Estimated Quantity 1,800 1,800 | \$ 2010 Cost \$144,00 \$90,00 \$9,00 \$9,00 \$243,00 |
| Mobilization Total Construction Costs Contingency as % of total construction costs Engineering and CMS as % of total construction costs Total Project Cost JU - Eastview from Tillicum to Storage Reservoir - Full Cost Install 8" lines (includes trenching, backfill, maint valves, hydrants, and fittings) 5ft width Pavement Repair (4-inches thick) Traffic Control Subtotal | % % Unit LF LF LF | 0% 0% Unit Price \$80 \$50 \$5 | Estimated Quantity 1,800 1,800 | \$2010 Cost \$144,00 \$90,00 \$9,00 \$9,00 \$243,00 \$14,58 |
| Mobilization Total Construction Costs Contingency as % of total construction costs Engineering and CMS as % of total construction costs Total Project Cost JU - Eastview from Tillicum to Storage Reservoir - Full Cost Install 8" lines (includes trenching, backfill, maint valves, hydrants, and fittings) Sft width Pavement Repair (4-inches thick) Traffic Control Subtotal Mobilization | % % Unit LF LF LF | 0% 0% Unit Price \$80 \$50 \$5 | Estimated Quantity 1,800 1,800 | \$ 2010 Cost \$144,00 \$90,00 \$90,00 \$9,00 \$243,000 \$14,58 \$257,58 |
| Mobilization Total Construction Costs Contingency as % of total construction costs Engineering and CMS as % of total construction costs Total Project Cost JU - Eastview from Tillicum to Storage Reservoir - Full Cost Install 8" lines (includes trenching, backfill, maint valves, hydrants, and fittings) Sft width Pavement Repair (4-inches thick) Traffic Control Subtotal Mobilization Total Construction Costs | % % Unit LF LF LF % | 0% 0% Unit Price \$80 \$50 \$5 \$5 | Estimated Quantity 1,800 1,800 | \$ \$ 2010 Cost \$144,00 |

| 3V - Booster and eastward extension from Eastview Dr. to Future Eastview Booster Service Area - Upsize Only | Unit | Unit Price | Estimated Quantity | 2010 Cost |
|---|--|---|--|---|
| Install 12" lines (includes trenching, backfill, maint valves, hydrants, and fittings) | LF | \$20 | 2,000 | \$40,000 |
| Booster Station - City's portion (Remainder to development) | LS | 50,000 | 1 | \$50,000 |
| Subtotal | | / | | \$90,000 |
| Mobilization | % | 0% | | \$0 |
| Total Construction Costs | | | | \$90,000 |
| Contingency as % of total construction costs | % | 0% | | \$0 |
| Engineering and CMS as % of total construction costs | % | 0% | | \$0 |
| Total Project Cost | | | \$90,000 | |
| 3W - Hawk Dr and Ike Mooney Rd - Upsize Only | Unit | Unit Price | Estimated Quantity | 2010 Cost |
| Install 8" lines (includes trenching, backfill, maint valves, hydrants, and fittings) | LF | \$0 | 1,600 | \$0 |
| Install 10" lines (includes trenching, backfill, maint valves, hydrants, and fittings) | LF | \$10 | 1,100 | \$11,000 |
| | | Ŷ10 | 1,100 | ¢11)000 |
| Subtotal | | | | \$11,000 |
| Mobilization | % | 0% | | \$0 \$0 |
| Total Construction Costs | 70 | 070 | | \$11,000 |
| Contingency as % of total construction costs | % | 0% | | \$0 |
| Engineering and CMS as % of total construction costs | % | 0% | | \$0 |
| | 70 | 070 | <u> </u> | ψŲ |
| Total Project Cost | | | \$11,000 | |
| 3X - Extension into Silverton Mobile Home Estates - Full Cost | Unit | Unit Price | Estimated Quantity | 2010 Cost |
| Install 8" lines (includes trenching, backfill, maint valves, hydrants, and fittings) | LF | \$80 | 1,500 | \$120,000 |
| 5ft width Pavement Repair (4-inches thick) | LF | \$50 | 1,500 | \$75,000 |
| Traffic Control | LF | \$5 | 1,500 | \$7,500 |
| Subtotal | | | | ¢202.500 |
| | 0/ | C0/ | | \$202,500 |
| Mobilization | % | 6% | | \$12,150 |
| Total Construction Costs | 0/ | 250/ | | \$214,650 |
| Contingency as % of total construction costs | % | 35% | | \$75,000 |
| Engineering and CMS as % of total construction costs | 70 | 20% | <u> </u> | \$42,930 |
| Total Project Cost | | | \$333,000 Estimated | |
| 3Y - Sunset Lane from Victor Point to Edison - Upsize Only | Unit | Unit Price | Quantity | 2010 Cost |
| | | | | |
| Install 8" lines (includes trenching, backfill, maint valves, hydrants, and fittings) | LF | \$0 | 2,300 | \$0 |
| | LF | \$0 | 2,300 | |
| Subtotal | | | 2,300 | \$0 |
| Subtotal Mobilization | LF % | \$0 0% | 2,300 | <i>\$0</i> \$0 |
| Subtotal Mobilization Total Construction Costs | % | 0% | 2,300 | \$0 \$0 \$0 |
| Subtotal Mobilization Total Construction Costs Contingency as % of total construction costs | % | 0% | 2,300 | \$0 \$0 \$0 \$0 \$0 |
| Subtotal Mobilization Total Construction Costs Contingency as % of total construction costs Engineering and CMS as % of total construction costs | % | 0% | | \$0 \$0 \$0 |
| Subtotal Mobilization Total Construction Costs Contingency as % of total construction costs | % | 0% | \$0 Estimated | \$0 \$0 \$0 \$0 \$0 |
| Subtotal Mobilization Total Construction Costs Contingency as % of total construction costs Engineering and CMS as % of total construction costs Total Project Cost 32 - Connection from current High School site through mobile home park to Pine St - Full Cost | % % % Unit | 0% 0% 0% Unit Price | \$0 Estimated Quantity | \$0 \$0 \$0 \$0 \$0 \$0 2010 Cost |
| Subtotal Mobilization Total Construction Costs Contingency as % of total construction costs Engineering and CMS as % of total construction costs Total Project Cost State through mobile home park to Pine St - Full Cost Install 8" lines (includes trenching, backfill, maint valves, hydrants, and fittings) | % % % Unit LF | 0% 0% 0% Unit Price \$80 | \$0 Estimated Quantity 1,000 | \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 |
| Subtotal Mobilization Total Construction Costs Contingency as % of total construction costs Engineering and CMS as % of total construction costs Total Project Cost 32 - Connection from current High School site through mobile home park to Pine St - Full Cost Install 8" lines (includes trenching, backfill, maint valves, hydrants, and fittings) Sft width Pavement Repair (4-inches thick) | % % % Unit LF LF | 0% 0% 0% Unit Price \$80 \$50 | \$0 Estimated Quantity 1,000 1,000 | \$0 \$0 \$0 \$0 \$0 2010 Cost \$80,000 \$50,000 |
| Subtotal Mobilization Total Construction Costs Contingency as % of total construction costs Engineering and CMS as % of total construction costs Total Project Cost State through mobile home park to Pine St - Full Cost Install 8" lines (includes trenching, backfill, maint valves, hydrants, and fittings) | % % % Unit LF | 0% 0% 0% Unit Price \$80 | \$0 Estimated Quantity 1,000 | \$0 \$0 \$0 \$0 \$0 \$0 2010 Cost \$80,000 |
| Subtotal Mobilization Total Construction Costs Contingency as % of total construction costs Engineering and CMS as % of total construction costs Total Project Cost 32 - Connection from current High School site through mobile home park to Pine St - Full Cost Install 8" lines (includes trenching, backfill, maint valves, hydrants, and fittings) Sft width Pavement Repair (4-inches thick) | % % % Unit LF LF | 0% 0% 0% Unit Price \$80 \$50 | \$0 Estimated Quantity 1,000 1,000 | \$0 \$0 \$0 \$0 \$0 2010 Cost \$80,000 \$50,000 |
| Subtotal Mobilization Total Construction Costs Contingency as % of total construction costs Engineering and CMS as % of total construction costs Total Project Cost 32 - Connection from current High School site through mobile home park to Pine St - Full Cost Install 8" lines (includes trenching, backfill, maint valves, hydrants, and fittings) Sft width Pavement Repair (4-inches thick) Traffic Control | % % % Unit LF LF | 0% 0% 0% Unit Price \$80 \$50 | \$0 Estimated Quantity 1,000 1,000 | \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$ |
| Subtotal Mobilization Total Construction Costs Contingency as % of total construction costs Engineering and CMS as % of total construction costs Total Project Cost 32 - Connection from current High School site through mobile home park to Pine St - Full Cost Install 8" lines (includes trenching, backfill, maint valves, hydrants, and fittings) 5ft width Pavement Repair (4-inches thick) Traffic Control Subtotal | % % % % Unit LF LF LF | 0% 0% 0% Unit Price \$80 \$50 \$5 | \$0 Estimated Quantity 1,000 1,000 | \$0 \$0 \$0 \$0 \$0 \$0 2010 Cost \$80,000 \$50,000 \$50,000 \$5,000 |
| Subtotal Mobilization Total Construction Costs Contingency as % of total construction costs Engineering and CMS as % of total construction costs Total Project Cost 32 - Connection from current High School site through mobile home park to Pine St - Full Cost Install 8" lines (includes trenching, backfill, maint valves, hydrants, and fittings) Sft width Pavement Repair (4-inches thick) Traffic Control Subtotal Mobilization | % % % % Unit LF LF LF | 0% 0% 0% Unit Price \$80 \$50 \$5 | \$0 Estimated Quantity 1,000 1,000 | \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$ |
| Subtotal Mobilization Total Construction Costs Contingency as % of total construction costs Engineering and CMS as % of total construction costs Total Project Cost 32 - Connection from current High School site through mobile home park to Pine St - Full Cost Install 8" lines (includes trenching, backfill, maint valves, hydrants, and fittings) Sft width Pavement Repair (4-inches thick) Traffic Control Subtotal Mobilization Total Construction Costs | % % % Unit LF LF LF % | 0% 0% 0% Unit Price \$80 \$50 \$5 \$5 | \$0 Estimated Quantity 1,000 1,000 | \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$ |

| 3AA - Robinson St and Church St - Full Cost | Unit | Unit Price | Estimated Quantity | 2010 Cost |
|---|-----------|------------------|-----------------------|---|
| Install 8" lines (includes trenching, backfill, maint valves, hydrants, and fittings) | LF | \$80 | 1,100 | \$88,000 |
| 5ft width Pavement Repair (4-inches thick) | LF | \$50 | 1,100 | \$55,000 |
| Traffic Control | LF | \$5 | 1,100 | \$5,500 |
| Subtotal | | | | \$148,500 |
| Mobilization | % | 6% | | \$8,910 |
| Total Construction Costs | 70 | 070 | | \$157,410 |
| Contingency as % of total construction costs | % | 35% | | \$55,000 |
| Engineering and CMS as % of total construction costs | % | 20% | | \$35,000 |
| Total Project Cost | 70 | 2070 | \$244,000 | <i>ç01</i> , 102 |
| 3BB - Norway from Chadwick to Oak St - Full Cost | Unit | Unit Price | Estimated Quantity | 2010 Cost |
| Install 8" lines (includes trenching, backfill, maint valves, hydrants, and fittings) | LF | \$80 | 700 | \$56,000 |
| 5ft width Pavement Repair (4-inches thick) | LF | \$50 | 700 | \$35,000 |
| Traffic Control | LF | \$50 | 700 | \$3,500 |
| | LI | ζĻ | 700 | Ş3,300 |
| Subtotal | | | | \$94,500 |
| Mobilization | % | 6% | | \$5,670 |
| Total Construction Costs | 70 | 070 | | \$100,170 |
| Contingency as % of total construction costs | % | 35% | | \$35,000 |
| Engineering and CMS as % of total construction costs | % | 20% | | \$20,034 |
| Total Project Cost | 70 | 2070 | \$156,000 | <i>\$20,034</i> |
| 3CC - Kent Street from East Park to N. Ames St - Full Cost | Unit | Unit Price | Estimated | 2010 Cost |
| | | | Quantity | |
| Install 8" lines (includes trenching, backfill, maint valves, hydrants, and fittings) | LF | \$80 ¢50 | 600 | \$48,000 |
| 5ft width Pavement Repair (4-inches thick) | LF | \$50 | 600 | \$30,000 |
| Traffic Control | LF | \$5 | 600 | \$3,000 |
| Subtotal | | | | \$81,000 |
| Mobilization | % | 6% | | \$4,860 |
| Total Construction Costs | | | | \$85,860 |
| Contingency as % of total construction costs | % | 35% | | \$30,000 |
| Engineering and CMS as % of total construction costs | % | 20% | | \$17,172 |
| Total Project Cost | \$134,000 | | | |
| 3DD - Maple Street near Grant and N. Water - Full Cost | Unit | Unit Price | Estimated Quantity | 2010 Cost |
| Install 8" lines (includes trenching, backfill, maint valves, hydrants, and fittings) | LF | \$80 | 800 | \$64,000 |
| 5ft width Pavement Repair (4-inches thick) | LF | \$50 | 800 | \$40,000 |
| Traffic Control | LF | \$5 | 800 | \$4,000 |
| | | | | \$108,000 |
| Subtotal | | | | |
| Subtotal Mobilization | % | 6% | | 281 32 |
| Mobilization | % | 6% | | |
| Mobilization Total Construction Costs | | | | \$114,480 |
| Mobilization | % | 6% 35% 20% | | \$6,480 <i>\$114,480</i> \$40,000 \$22,896 |

The cost estimate herein is based on our perception of current conditions at the project location. This estimate reflects our opinion of probable costs at this time and is subject to change as the project design matures. The City has no control over variances in the cost of labor, materials, equipment, services provided by others, contractor's methods of determining prices, competitive bidding or market conditions, practices or bidding strategies. The City cannot and does not warrant or guarantee that proposals, bids, or actual construction costs will not vary from the cost presented herein.