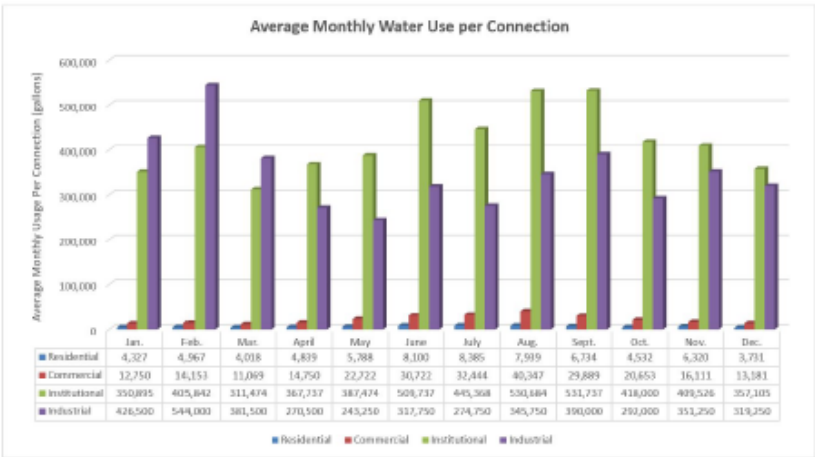
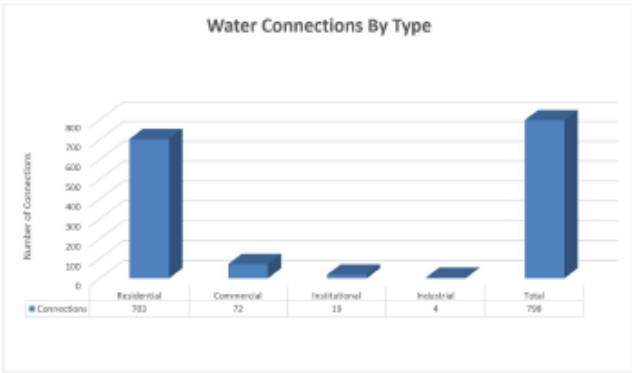


Gunnison City Water Master Plan

April 5, 2023
Gunnison City



Connection Types



Population Projections

Table 4.3.2 Total Population Projections

Year	Est. Town Population
2023	5,324
2033	6,346
2043	7,632
2053	8,936
2063	9,397

Table 4.3.3 City Population Projections

Year	Est. Prison Population
2023	3,519
2033	3,860
2043	4,210
2053	4,456
2063	4,917

Table 4.3.4 Prison Population Projections

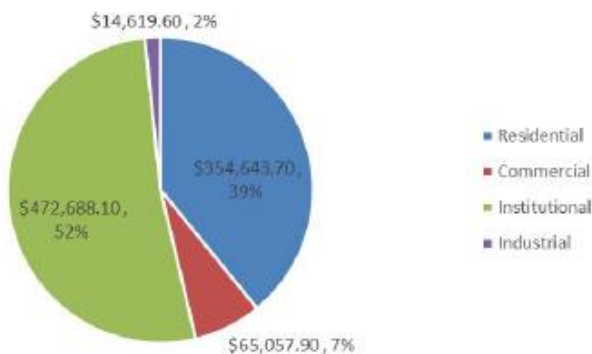
Year	Est. Prison Population
2023	1,805
2033	2,485
2043	3,422
2053	4,480
2063	4,480

Table 4.3.6 Gunnison City Future ERC Projections

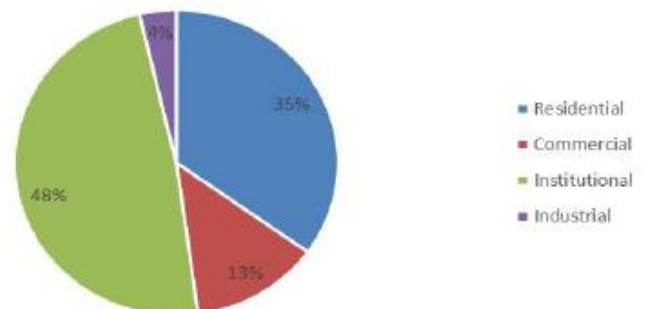
Year	Est. Residential ERC's	Est. Prison ERC's	Est. Commercial ERC's	Est. Institutional ERC's	Est. Industrial ERC's	Total ERC's
2023	646	1,439	243	52	336	2,716
2033	709	1,981	267	57	369	3,382
2043	773	2,728	291	62	402	4,256
2053	818	3,572	308	66	425	5,189
2063	903	3,572	340	73	469	5,356

Current Usage and Revenue

Yearly Water Revenue



Yearly Water Usage

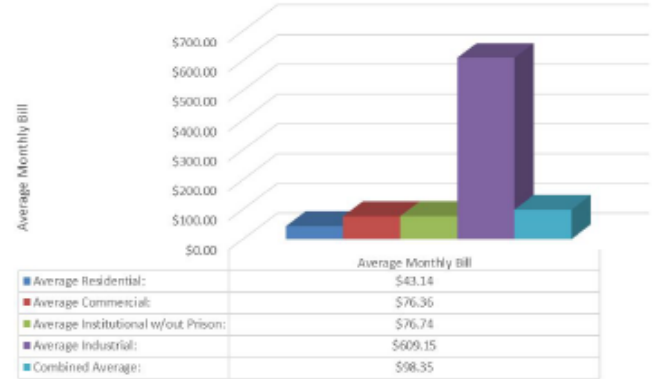


Current Monthly Revenue

Total Average Monthly Bill

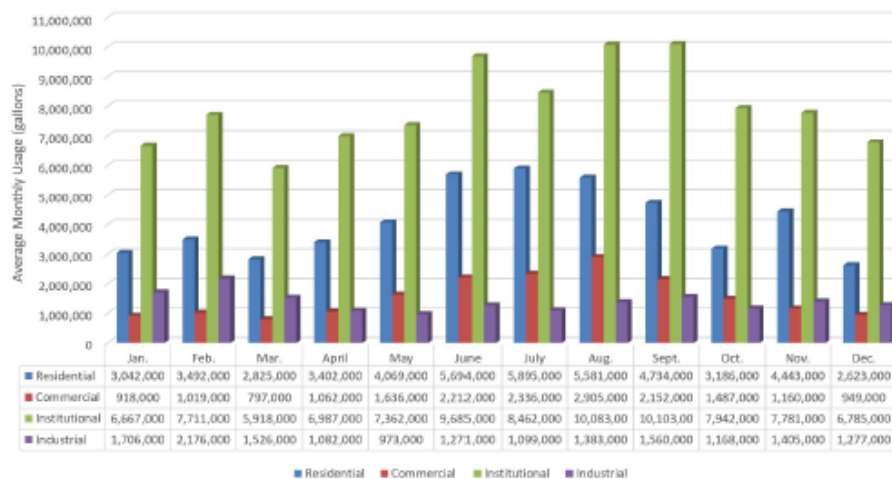


Total Average Monthly Bill Excluding Prison



Monthly Water Usages

Monthly Water Use



Existing Source and Storage

Table 3.8.1 Existing Storage

State Identifier	Tank	Capacity (gal)	Elevation	Material	Type	Year Constructed
ST001	Main (East) Tank	500,000	5386	Concrete	Underground	1974
ST002	Bartholomew Tank	500,000	5384	Concrete	Ground	1990
ST003	Christensen Tank	541,000	5384	Concrete	Ground	2014
Storage Available		1,541,000				

State Identifier	Tank	Capacity (gal)	Elevation	Material	Type
ST004	Prison Tank #1	750,000	5438	Concrete	Ground
ST005	Prison Tank #2	750,000	5438	Concrete	Ground
Storage Available		1,500,000			

Table 3.6.1 Existing Sources and Pertinent Information

Source (Well/Spring)	ID	Status	Location	Source Capacity (gpm)	Source Capacity (gpd)
Peacock Spring	WS001	Inactive	7.1 miles Northeast of Gunnison	150 (Secondary)	213,000
Little Nine Mile Spring	WS002	Inactive	5.7 miles East of Gunnison	N/A	N/A
Voorhees Well	WS003	Inactive	3.4 miles East of Gunnison	N/A	N/A
Bartholomew Well	WS004	Active	2.8 Miles NW of Gunnison	950	1,159,000
UTAH20001 Centerfield	WS005	Active	Near 700 S 50 W in Gunnison	N/A	N/A
Christensen Well	WS006	Inactive	3.3 miles NW of Gunnison	N/A	N/A
Sorensen Well	WS007	Active	3.0 miles NW of Gunnison	150	213,000
TOTAL				1,100	1,320,000

*Note: Source capacity is the total gpm and gpd, but in this report all source capacity quantities in units of gpd were calculated using a 20-hour pumping period instead of 24 hours to allow the treatment facilities to backwash and allow the pumps to cool down.

Table 3.6.2 Treatment Facilities

Treatment Plant	ID	Status	Location	Capacity (gpm)	Capacity (gpd)
Peacock Spring Chlorinator	TP001	Inactive	7.1 miles NE of Gunnison	N/A	N/A
Arsenic Treatment Plant	TP002	Active	1.6 miles NW of Gunnison	1,000	1,440,000

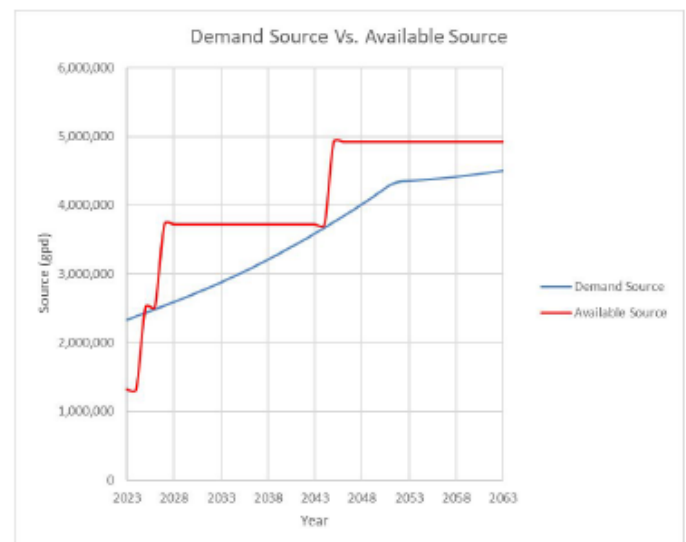
Future Source Demand vs. Available

Table 4.3.7 Existing Total Requirements for Source Demand

Peak Day Demand	800 gal/day/ERC
ERCs	2,716
TOTAL INDOOR 2,172,800 gpd or 1,509 gpm	
Outdoor Peak Day Demand	3.39 gal/min/irrigated acre
Total Irrigated Acres	42 acres
TOTAL OUTDOOR 206,027 gpd or 142 gpm	
TOTAL REQUIRED 2,377,827 gpd or 1,651 gpm	
TOTAL AVAILABLE 1,320,000 gpd 1,100 gpm	

Table 4.3.15 Prison 40 Year (2063) Future Source State Requirements

Peak Day Demand	800 gal/day/ERC
ERC's	3,572
TOTAL INDOOR 2,857,600 gpd or 1,984 gpm	
Outdoor Peak Day Demand	3.39 gal/min/irrigated acre
Total Irrigated Acres	10 acres
TOTAL OUTDOOR 48,960 gpd or 34 gpm	
TOTAL REQUIRED 2,906,560 gpd or 2,018 gpm	
TOTAL AVAILABLE 1,320,000 gpd 1,100 gpm	



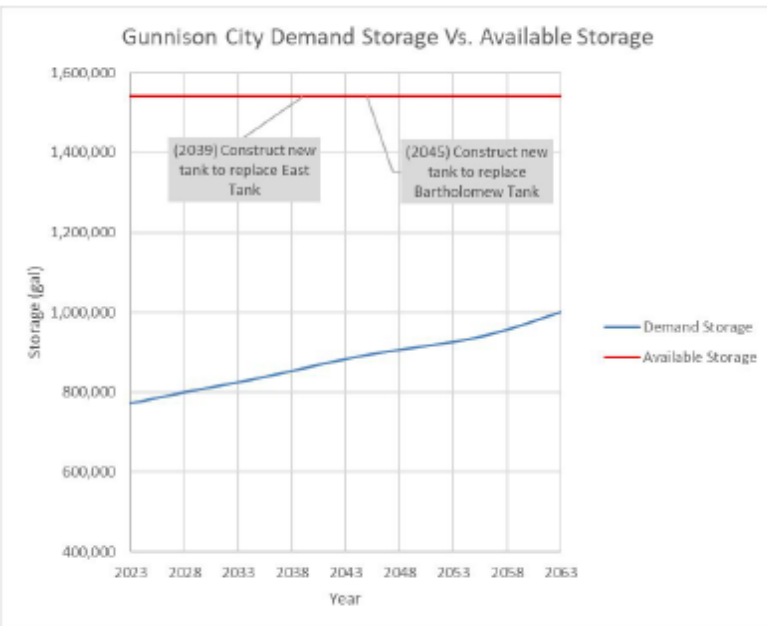
Future Storage Demand vs. Available

Table 4.3.16 Existing City (2023) Peak Day Storage Requirements

Fire Flow	1500 gpm *1440 min/hr.
Duration	2 hours
TOTAL FIRE FLOW	180,000 gal.
Indoor Peak Day Demand	400 gal/ERC
ERCs	1,277
TOTAL INDOOR	510,800 gal.
Outdoor Peak Day Demand	2,528 gal/irrigated acre
Total Irrigated Acres	32 acres
TOTAL OUTDOOR	80,896 gal.
TOTAL REQUIRED	771,696 gal.
TOTAL AVAILABLE	1,541,000 gal.

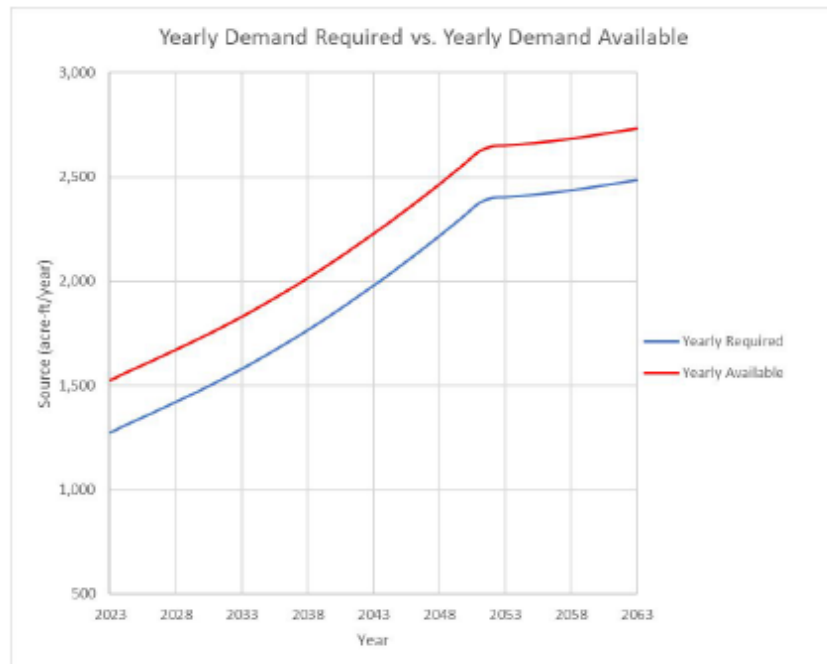
Table 4.3.20 City 40 Year (2063) Future Peak Day Storage Requirements

Fire Flow	1500 gpm *1440 min/hr.
Duration	2 hours
TOTAL FIRE FLOW	180,000 gal.
Indoor Peak Day Demand	400 gal/ERC
ERCs	1,784
TOTAL INDOOR	713,600 gal.
Outdoor Peak Day Demand	2,528 gal/irrigated acre
Total Irrigated Acres	45 acres
TOTAL OUTDOOR	113,760 gal.
TOTAL REQUIRED	1,007,360 gal.
TOTAL AVAILABLE	1,541,000 gal.

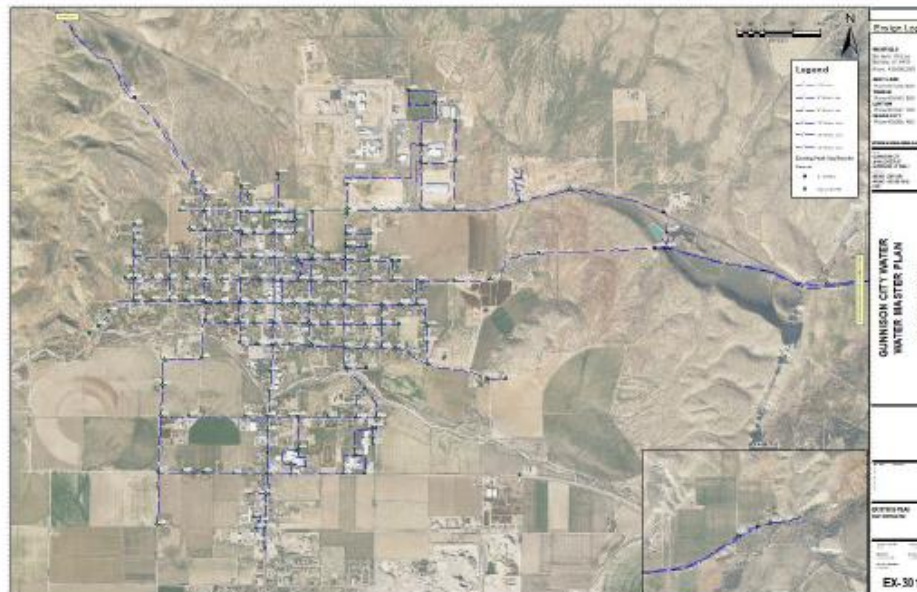


Water Right Demands

Year	Yearly Demand Required (ac-ft/year)	Yearly Demand Available (ac-ft/year)
2023	1,276	1,525
2043	1,978	2,227
2063	2,484	2,733



Peak Day Demand



Peak Instantaneous Demand

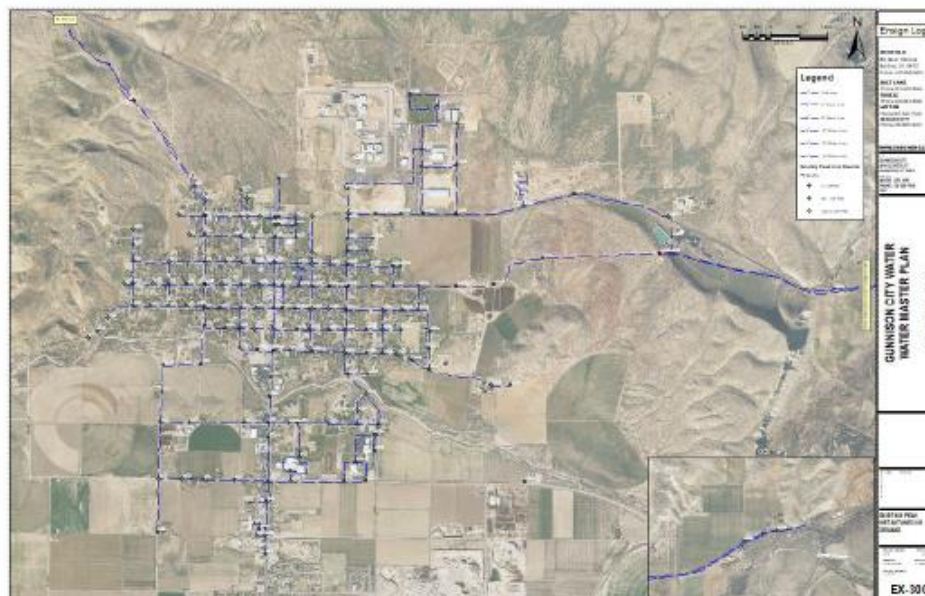


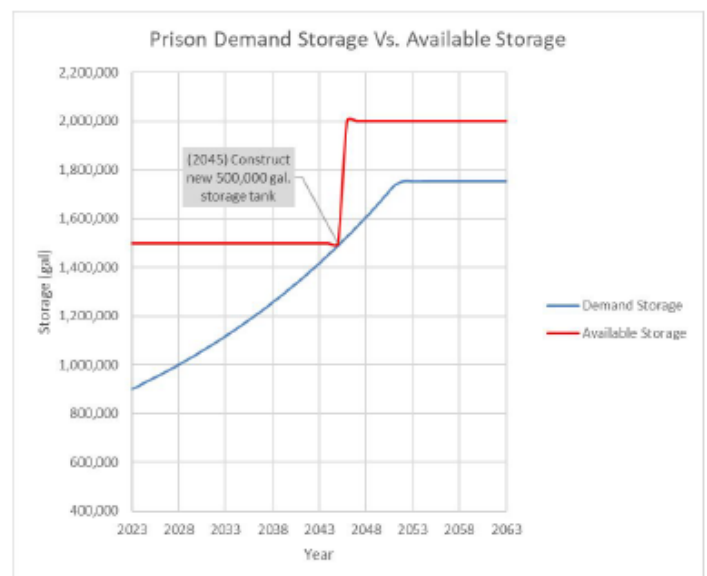


Table 4.3.17 Existing Prison Year (2023) Peak Day Storage Requirements

Fire Flow	2500 gpm *1440 min/hr
Duration	2 hours
TOTAL FIRE FLOW	360,000 gal.
Indoor Peak Day Demand	400 gal/ERC
ERCs	1,439
TOTAL INDOOR	575,600 gal.
Outdoor Peak Day Demand	2,528 gal/irrigated acre
Total Irrigated Acres	10 acres
TOTAL OUTDOOR	25,280 gal.
TOTAL REQUIRED	900,880 gal.
TOTAL AVAILABLE	1,541,000 gal.

Table 4.3.21 Prison 40 Year (2063) Future Peak Day Storage Requirements

Fire Flow	2500 gpm *1440 min/hr
Duration	2 hours
TOTAL FIRE FLOW	360,000 gal.
Indoor Peak Day Demand	400 gal/ERC
ERCs	3,572
TOTAL INDOOR	1,428,800 gal.
Outdoor Peak Day Demand	2,528 gal/irrigated acre
Total Irrigated Acres	10 acres
TOTAL OUTDOOR	25,280 gal.
TOTAL REQUIRED	1,754,080 gal.
TOTAL AVAILABLE	1,500,000 gal.



Proposed Distribution Improvements



Proposed Locations:

1. Connection near 400 N 150 W
2. Connection along HWY 89
3. Connection near 250 N Main Street



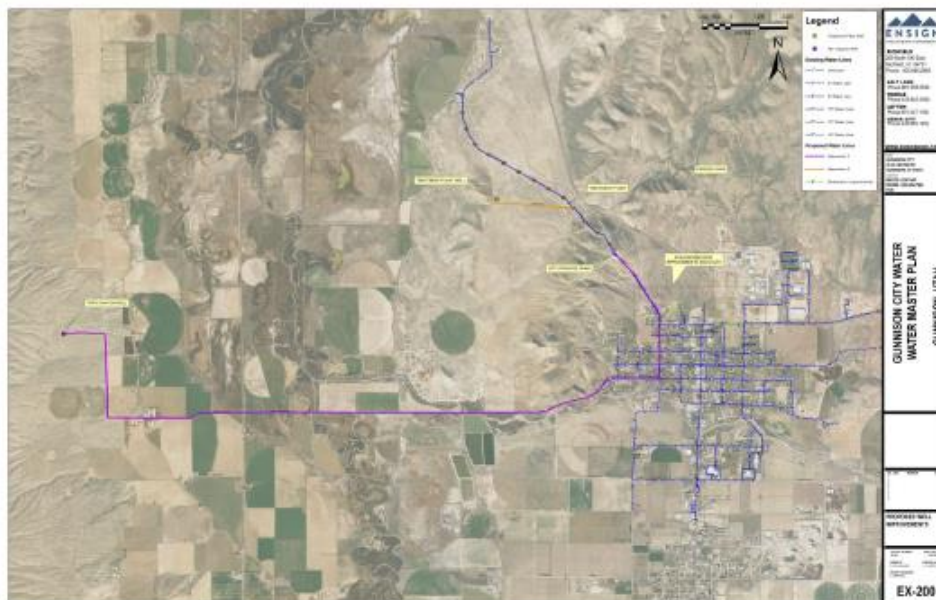
Alternatives



- A. No action taken
- B. Tarr Canyon Location
- C. Treatment Plant Location

PROJECT INFORMATION		DATE	ENGIN		
GUNNISON CITY WATER MASTER PLAN, 2nd Edition, 2019		2020.08.20			
PROJECT LOCATION		Gunnison, Utah			
PROJECT DESCRIPTION		Water Distribution Improvements			
ITEM	DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	TOTAL
Item Description					
001	1.000' 12" DIAMETER WATER MAIN, CONCRETE/CLAY TILE	LF	100	\$ 1,000.00	\$ 100,000.00
002	2.000' 12" DIAMETER WATER MAIN, CONCRETE/CLAY TILE	LF	200	\$ 2,000.00	\$ 400,000.00
003	3.000' 12" DIAMETER WATER MAIN, CONCRETE/CLAY TILE	LF	300	\$ 3,000.00	\$ 900,000.00
004	4.000' 12" DIAMETER WATER MAIN, CONCRETE/CLAY TILE	LF	400	\$ 4,000.00	\$ 1,600,000.00
005	5.000' 12" DIAMETER WATER MAIN, CONCRETE/CLAY TILE	LF	500	\$ 5,000.00	\$ 2,500,000.00
006	6.000' 12" DIAMETER WATER MAIN, CONCRETE/CLAY TILE	LF	600	\$ 6,000.00	\$ 3,600,000.00
007	7.000' 12" DIAMETER WATER MAIN, CONCRETE/CLAY TILE	LF	700	\$ 7,000.00	\$ 4,900,000.00
008	8.000' 12" DIAMETER WATER MAIN, CONCRETE/CLAY TILE	LF	800	\$ 8,000.00	\$ 6,400,000.00
009	9.000' 12" DIAMETER WATER MAIN, CONCRETE/CLAY TILE	LF	900	\$ 9,000.00	\$ 8,100,000.00
010	10.000' 12" DIAMETER WATER MAIN, CONCRETE/CLAY TILE	LF	1,000	\$ 10,000.00	\$ 10,000,000.00
011	11.000' 12" DIAMETER WATER MAIN, CONCRETE/CLAY TILE	LF	1,100	\$ 11,000.00	\$ 12,100,000.00
012	12.000' 12" DIAMETER WATER MAIN, CONCRETE/CLAY TILE	LF	1,200	\$ 12,000.00	\$ 14,400,000.00
013	13.000' 12" DIAMETER WATER MAIN, CONCRETE/CLAY TILE	LF	1,300	\$ 13,000.00	\$ 16,900,000.00
014	14.000' 12" DIAMETER WATER MAIN, CONCRETE/CLAY TILE	LF	1,400	\$ 14,000.00	\$ 19,600,000.00
015	15.000' 12" DIAMETER WATER MAIN, CONCRETE/CLAY TILE	LF	1,500	\$ 15,000.00	\$ 22,500,000.00
016	16.000' 12" DIAMETER WATER MAIN, CONCRETE/CLAY TILE	LF	1,600	\$ 16,000.00	\$ 25,600,000.00
017	17.000' 12" DIAMETER WATER MAIN, CONCRETE/CLAY TILE	LF	1,700	\$ 17,000.00	\$ 28,900,000.00
018	18.000' 12" DIAMETER WATER MAIN, CONCRETE/CLAY TILE	LF	1,800	\$ 18,000.00	\$ 32,400,000.00
019	19.000' 12" DIAMETER WATER MAIN, CONCRETE/CLAY TILE	LF	1,900	\$ 19,000.00	\$ 36,100,000.00
020	20.000' 12" DIAMETER WATER MAIN, CONCRETE/CLAY TILE	LF	2,000	\$ 20,000.00	\$ 40,000,000.00
Sub Total (Estimated)					
\$ 1,000,000.00					
Item Description					
021	21.000' 12" DIAMETER WATER MAIN, CONCRETE/CLAY TILE	LF	2,100	\$ 21,000.00	\$ 44,100,000.00
022	22.000' 12" DIAMETER WATER MAIN, CONCRETE/CLAY TILE	LF	2,200	\$ 22,000.00	\$ 48,400,000.00
023	23.000' 12" DIAMETER WATER MAIN, CONCRETE/CLAY TILE	LF	2,300	\$ 23,000.00	\$ 52,900,000.00
024	24.000' 12" DIAMETER WATER MAIN, CONCRETE/CLAY TILE	LF	2,400	\$ 24,000.00	\$ 57,600,000.00
025	25.000' 12" DIAMETER WATER MAIN, CONCRETE/CLAY TILE	LF	2,500	\$ 25,000.00	\$ 62,500,000.00
026	26.000' 12" DIAMETER WATER MAIN, CONCRETE/CLAY TILE	LF	2,600	\$ 26,000.00	\$ 67,600,000.00
027	27.000' 12" DIAMETER WATER MAIN, CONCRETE/CLAY TILE	LF	2,700	\$ 27,000.00	\$ 72,900,000.00
028	28.000' 12" DIAMETER WATER MAIN, CONCRETE/CLAY TILE	LF	2,800	\$ 28,000.00	\$ 78,400,000.00
029	29.000' 12" DIAMETER WATER MAIN, CONCRETE/CLAY TILE	LF	2,900	\$ 29,000.00	\$ 84,100,000.00
030	30.000' 12" DIAMETER WATER MAIN, CONCRETE/CLAY TILE	LF	3,000	\$ 30,000.00	\$ 90,000,000.00
Sub Total (Estimated)					
\$ 7,000,000.00					
Item Description					
031	31.000' 12" DIAMETER WATER MAIN, CONCRETE/CLAY TILE	LF	3,100	\$ 31,000.00	\$ 96,100,000.00
032	32.000' 12" DIAMETER WATER MAIN, CONCRETE/CLAY TILE	LF	3,200	\$ 32,000.00	\$ 102,400,000.00
033	33.000' 12" DIAMETER WATER MAIN, CONCRETE/CLAY TILE	LF	3,300	\$ 33,000.00	\$ 108,900,000.00
034	34.000' 12" DIAMETER WATER MAIN, CONCRETE/CLAY TILE	LF	3,400	\$ 34,000.00	\$ 115,600,000.00
035	35.000' 12" DIAMETER WATER MAIN, CONCRETE/CLAY TILE	LF	3,500	\$ 35,000.00	\$ 122,500,000.00
036	36.000' 12" DIAMETER WATER MAIN, CONCRETE/CLAY TILE	LF	3,600	\$ 36,000.00	\$ 129,600,000.00
037	37.000' 12" DIAMETER WATER MAIN, CONCRETE/CLAY TILE	LF	3,700	\$ 37,000.00	\$ 136,900,000.00
038	38.000' 12" DIAMETER WATER MAIN, CONCRETE/CLAY TILE	LF	3,800	\$ 38,000.00	\$ 144,400,000.00
039	39.000' 12" DIAMETER WATER MAIN, CONCRETE/CLAY TILE	LF	3,900	\$ 39,000.00	\$ 152,100,000.00
040	40.000' 12" DIAMETER WATER MAIN, CONCRETE/CLAY TILE	LF	4,000	\$ 40,000.00	\$ 160,000,000.00
Sub Total (Estimated)					
\$ 1,000,000.00					
Item Description					
041	41.000' 12" DIAMETER WATER MAIN, CONCRETE/CLAY TILE	LF	4,100	\$ 41,000.00	\$ 168,100,000.00
042	42.000' 12" DIAMETER WATER MAIN, CONCRETE/CLAY TILE	LF	4,200	\$ 42,000.00	\$ 176,400,000.00
043	43.000' 12" DIAMETER WATER MAIN, CONCRETE/CLAY TILE	LF	4,300	\$ 43,000.00	\$ 184,900,000.00
044	44.000' 12" DIAMETER WATER MAIN, CONCRETE/CLAY TILE	LF	4,400	\$ 44,000.00	\$ 193,600,000.00
045	45.000' 12" DIAMETER WATER MAIN, CONCRETE/CLAY TILE	LF	4,500	\$ 45,000.00	\$ 202,500,000.00
046	46.000' 12" DIAMETER WATER MAIN, CONCRETE/CLAY TILE	LF	4,600	\$ 46,000.00	\$ 211,600,000.00
047	47.000' 12" DIAMETER WATER MAIN, CONCRETE/CLAY TILE	LF	4,700	\$ 47,000.00	\$ 220,900,000.00
048	48.000' 12" DIAMETER WATER MAIN, CONCRETE/CLAY TILE	LF	4,800	\$ 48,000.00	\$ 230,400,000.00
049	49.000' 12" DIAMETER WATER MAIN, CONCRETE/CLAY TILE	LF	4,900	\$ 49,000.00	\$ 240,100,000.00
050	50.000' 12" DIAMETER WATER MAIN, CONCRETE/CLAY TILE	LF	5,000	\$ 50,000.00	\$ 250,000,000.00
Sub Total (Estimated)					
\$ 1,000,000.00					
Item Description					
051	51.000' 12" DIAMETER WATER MAIN, CONCRETE/CLAY TILE	LF	5,100	\$ 51,000.00	\$ 260,100,000.00
052	52.000' 12" DIAMETER WATER MAIN, CONCRETE/CLAY TILE	LF	5,200	\$ 52,000.00	\$ 270,400,000.00
053	53.000' 12" DIAMETER WATER MAIN, CONCRETE/CLAY TILE	LF	5,300	\$ 53,000.00	\$ 280,900,000.00
054	54.000' 12" DIAMETER WATER MAIN, CONCRETE/CLAY TILE	LF	5,400	\$ 54,000.00	\$ 291,600,000.00
055	55.000' 12" DIAMETER WATER MAIN, CONCRETE/CLAY TILE	LF	5,500	\$ 55,000.00	\$ 302,500,000.00
056	56.000' 12" DIAMETER WATER MAIN, CONCRETE/CLAY TILE	LF	5,600	\$ 56,000.00	\$ 313,600,000.00
057	57.000' 12" DIAMETER WATER MAIN, CONCRETE/CLAY TILE	LF	5,700	\$ 57,000.00	\$ 324,900,000.00
058	58.000' 12" DIAMETER WATER MAIN, CONCRETE/CLAY TILE	LF	5,800	\$ 58,000.00	\$ 336,400,000.00
059	59.000' 12" DIAMETER WATER MAIN, CONCRETE/CLAY TILE	LF	5,900	\$ 59,000.00	\$ 348,100,000.00
060	60.000' 12" DIAMETER WATER MAIN, CONCRETE/CLAY TILE	LF	6,000	\$ 60,000.00	\$ 360,000,000.00
Sub Total (Estimated)					
\$ 1,000,000.00					
Item Description					
061	61.000' 12" DIAMETER WATER MAIN, CONCRETE/CLAY TILE	LF	6,100	\$ 61,000.00	\$ 372,100,000.00
062	62.000' 12" DIAMETER WATER MAIN, CONCRETE/CLAY TILE	LF	6,200	\$ 62,000.00	\$ 384,400,000.00
063	63.000' 12" DIAMETER WATER MAIN, CONCRETE/CLAY TILE	LF	6,300	\$ 63,000.00	\$ 396,900,000.00
064	64.000' 12" DIAMETER WATER MAIN, CONCRETE/CLAY TILE	LF	6,400	\$ 64,000.00	\$ 409,600,000.00
065	65.000' 12" DIAMETER WATER MAIN, CONCRETE/CLAY TILE	LF	6,500	\$ 65,000.00	\$ 422,500,000.00
066	66.000' 12" DIAMETER WATER MAIN, CONCRETE/CLAY TILE	LF	6,600	\$ 66,000.00	\$ 435,600,000.00
067	67.000' 12" DIAMETER WATER MAIN, CONCRETE/CLAY TILE	LF	6,700	\$ 67,000.00	\$ 448,900,000.00
068	68.000' 12" DIAMETER WATER MAIN, CONCRETE/CLAY TILE	LF	6,800	\$ 68,000.00	\$ 462,400,000.00
069	69.000' 12" DIAMETER WATER MAIN, CONCRETE/CLAY TILE	LF	6,900	\$ 69,000.00	\$ 476,100,000.00
070	70.000' 12" DIAMETER WATER MAIN, CONCRETE/CLAY TILE	LF	7,000	\$ 70,000.00	\$ 490,000,000.00
Sub Total (Estimated)					
\$ 1,000,000.00					
Item Description					
071	71.000' 12" DIAMETER WATER MAIN, CONCRETE/CLAY TILE	LF	7,100	\$ 71,000.00	\$ 504,100,000.00
072	72.000' 12" DIAMETER WATER MAIN, CONCRETE/CLAY TILE	LF	7,200	\$ 72,000.00	\$ 518,400,000.00
073	73.000' 12" DIAMETER WATER MAIN, CONCRETE/CLAY TILE	LF	7,300	\$ 73,000.00	\$ 532,900,000.00
074	74.000' 12" DIAMETER WATER MAIN, CONCRETE/CLAY TILE	LF	7,400	\$ 74,000.00	\$ 547,600,000.00
075	75.000' 12" DIAMETER WATER MAIN, CONCRETE/CLAY TILE	LF	7,500	\$ 75,000.00	\$ 562,500,000.00
076	76.000' 12" DIAMETER WATER MAIN, CONCRETE/CLAY TILE	LF	7,600	\$ 76,000.00	\$ 577,600,000.00
077	77.000' 12" DIAMETER WATER MAIN, CONCRETE/CLAY TILE	LF	7,700	\$ 77,000.00	\$ 592,900,000.00
078	78.000' 12" DIAMETER WATER MAIN, CONCRETE/CLAY TILE	LF	7,800	\$ 78,000.00	\$ 608,400,000.00
079	79.000' 12" DIAMETER WATER MAIN, CONCRETE/CLAY TILE	LF	7,900	\$ 79,000.00	\$ 624,100,000.00
080	80.000' 12" DIAMETER WATER MAIN, CONCRETE/CLAY TILE	LF	8,000	\$ 80,000.00	\$ 640,000,000.00
Sub Total (Estimated)					
\$ 1,000,000.00					
Item Description					
081	81.000' 12" DIAMETER WATER MAIN, CONCRETE/CLAY TILE	LF	8,100	\$ 81,000.00	\$ 656,100,000.00
082	82.000' 12" DIAMETER WATER MAIN, CONCRETE/CLAY TILE	LF	8,200	\$ 82,000.00	\$ 672,400,000.00
083	83.000' 12" DIAMETER WATER MAIN, CONCRETE/CLAY TILE	LF	8,300	\$ 83,000.00	\$ 688,900,000.00
084	84.000' 12" DIAMETER WATER MAIN, CONCRETE/CLAY TILE	LF	8,400	\$ 84,000.00	\$ 705,600,000.00
085	85.000' 12" DIAMETER WATER MAIN, CONCRETE/CLAY TILE	LF	8,500	\$ 85,000.00	\$ 722,500,000.00
086	86.000' 12" DIAMETER WATER MAIN, CONCRETE/CLAY TILE	LF	8,600	\$ 86,000.00	\$ 739,600,000.00
087	87.000' 12" DIAMETER WATER MAIN, CONCRETE/CLAY TILE	LF	8,700	\$ 87,000.00	\$ 756,900,000.00
088	88.000' 12" DIAMETER WATER MAIN, CONCRETE/CLAY TILE	LF	8,800	\$ 88,000.00	\$ 774,400,000.00
089	89.000' 12" DIAMETER WATER MAIN, CONCRETE/CLAY TILE	LF	8,900	\$ 89,000.00	\$ 792,100,000.00
090	90.000' 12" DIAMETER WATER MAIN, CONCRETE/CLAY TILE	LF	9,000	\$ 90,000.00	\$ 810,000,000.00
Sub Total (Estimated)					
\$ 1,000,000.00					
Item Description					
091	91.000' 12" DIAMETER WATER MAIN, CONCRETE/CLAY TILE	LF	9,100	\$ 91,000.00	\$ 828,100,000.00
092	92.000' 12" DIAMETER WATER MAIN, CONCRETE/CLAY TILE	LF	9,200	\$ 92,000.00	\$ 846,400,000.00
093	93.000' 12" DIAMETER WATER MAIN, CONCRETE/CLAY TILE	LF	9,300	\$ 93,000.00	\$ 864,900,000.00
094	94.000' 12" DIAMETER WATER MAIN, CONCRETE/CLAY TILE	LF	9,400	\$ 94,000.00	\$ 883,600,000.00
095	95.000' 12" DIAMETER WATER MAIN, CONCRETE/CLAY TILE	LF	9,500	\$ 95,000.00	\$ 902,500,000.00
096	96.000' 12" DIAMETER WATER MAIN, CONCRETE/CLAY TILE	LF	9,600	\$ 96,000.00	\$ 921,600,000.00
097	97.000' 12" DIAMETER WATER MAIN, CONCRETE/CLAY TILE	LF	9,700	\$ 97,000.00	\$ 940,900,000.00
098	98.000' 12" DIAMETER WATER MAIN, CONCRETE/CLAY TILE	LF	9,800	\$ 98,000.00	\$ 960,400,000.00
099	99.000' 12" DIAMETER WATER MAIN, CONCRETE/CLAY TILE	LF	9,900	\$ 99,000.00	\$ 980,100,000.00
100	100.000' 12" DIAMETER WATER MAIN, CONCRETE/CLAY TILE	LF	10,000	\$ 100,000.00	\$ 1,000,000,000.00
Sub Total (Estimated)					
\$ 1,000,000.00					
Item Description					
101	101.000' 12" DIAMETER WATER MAIN, CONCRETE/CLAY TILE	LF	10,100	\$ 101,000.00	\$ 1,020,100,000.00
102	102.000' 12" DIAMETER WATER MAIN, CONCRETE/CLAY TILE	LF	10,200	\$ 102,000.00	\$ 1,040,400,000.00
103	103.000' 12" DIAMETER WATER MAIN, CONCRETE/CLAY TILE	LF	10,300	\$ 103,000.00	\$ 1,060,900,000.00
104	104.000' 12" DIAMETER WATER MAIN, CONCRETE/CLAY TILE	LF	10,400	\$ 104,000.00	\$ 1,081,600,000.00
105	105.000' 12" DIAMETER WATER MAIN, CONCRETE/CLAY TILE	LF	10,500	\$ 105,000.00	\$ 1,102,500,000.00
106	106.000' 12" DIAMETER WATER MAIN, CONCRETE/CLAY TILE	LF	10,600	\$ 106,000.00	\$ 1,123,600,000.00
107	107.000' 12" DIAMETER WATER MAIN, CONCRETE/CLAY TILE	LF	10,700	\$ 107,000.00	\$ 1,144,900,000.00
108	108.000' 12" DIAMETER WATER MAIN, CONCRETE/CLAY TILE	LF	10,800	\$ 108,000.00	\$ 1,166,400,000.00
109	109.000' 12" DIAMETER WATER MAIN, CONCRETE/CLAY TILE	LF	10,900	\$ 109,000.00	\$ 1,188,100,000.00
110	110.000' 12" DIAMETER WATER MAIN, CONCRETE/CLAY TILE	LF	11,000	\$ 110,000.00	\$ 1,210,000,000.00
Sub Total (Estimated)					
\$ 1,000,000.00					
Item Description					
111	111.000' 12" DIAMETER WATER MAIN, CONCRETE/CLAY TILE	LF	11,100	\$ 111,000.00	\$ 1,232,100,000.00
112	112.000' 12" DIAMETER WATER MAIN, CONCRETE/CLAY TILE	LF	11,200	\$ 112,000.00	\$ 1,254,400,000.00
113	113.000' 12" DIAMETER WATER MAIN, CONCRETE/CLAY TILE	LF	11,300	\$ 113,000.00	\$ 1,276,900,000.00
114	114.000' 12" DIAMETER WATER MAIN, CONCRETE/CLAY TILE	LF	11,400	\$ 114,000.00	\$ 1,299,600,000.00
115	115.000' 12" DIAMETER WATER MAIN, CONCRETE/CLAY TILE	LF	11,500	\$ 115,000.00	\$ 1,322,500,000.00
116	116.000' 12" DIAMETER WATER MAIN, CONCRETE/CLAY TILE	LF	11,600	\$ 116,000.00	\$ 1,345,600,000.00
117	117.000' 12" DIAMETER WATER MAIN, CONCRETE/CLAY TILE	LF	11,700	\$ 117,000.00	\$ 1,368,900,000.00
118	118.000' 12" DIAMETER WATER MAIN, CONCRETE/CLAY TILE	LF	11,800	\$ 118,000.00	\$ 1,392,400,000.00
119	119.000' 12" DIAMETER WATER MAIN, CONCRETE/CLAY TILE	LF	11,900	\$ 119,000.00	\$ 1,416,100,000.00
120	120.000' 12" DIAMETER WATER MAIN, CONCRETE/CLAY TILE	LF	12,000	\$ 120,000.00	\$ 1,440,000,000.00
Sub Total (Estimated)					
\$ 1,000,000.00					
Item Description					
121	121.000' 12" DIAMETER WATER MAIN, CONCRETE/CLAY TILE	LF	12,100	\$ 121,000.00	\$ 1,464,100,000.00
122	122.000' 12" DIAMETER WATER MAIN, CONCRETE/CLAY TILE	LF	12,200	\$ 122,000.00	\$ 1,488,400,000.00
123	123.000' 12" DIAMETER WATER MAIN, CONCRETE/CLAY TILE	LF	12,300	\$ 123,000.00	\$ 1,512,900,000.00
124	124.000' 12" DIAMETER WATER MAIN, CONCRETE/CLAY TILE	LF	12,400	\$ 124,000.00	\$ 1,537,600,000.00

ALTERNATIVE	SOCIAL	ENVIRONMENTAL	REGULATORY	OPERATIONAL	NPV	TOTAL	BEST
A	1	10	1	1	10	23	
B	8	8	10	10	9	45	X
C	8	8	6	6	8	36	



Distribution Improvements



PROJECT TITLE: Gunnison City Distribution Improvements		PROJECT NUMBER: 8075	
LOCATION: Gunnison, UT		DATE: April 4, 2023	
FOR: Gunnison City			
ESTIMATED BY: M. Naser	CHECKED BY: K. Chappell	APPROVED BY: K. Chappell	



ITEM	DESCRIPTION	UNIT	QUANTITY	UNIT COST	TOTAL
200 North HWY 89 Loop					
100	8" PVC Water Line	LF	920	\$ 90.00	\$ 82,800.00
101	6"x6"x8" Tee	EA	1	\$ 2,000.00	\$ 2,000.00
102	8"x8"x8" Tee	EA	1	\$ 1,400.00	\$ 1,400.00
103	12"x12"x8" Tee	EA	1	\$ 3,600.00	\$ 3,600.00
104	Highway Bore	LF	50	\$ 350.00	\$ 17,500.00
105	6" Gate Valve	EA	3	\$ 3,000.00	\$ 9,000.00
106	8" Gate Valve	EA	4	\$ 3,600.00	\$ 14,400.00
107	12" Gate Valve	EA	2	\$ 5,000.00	\$ 10,000.00
				Total	\$ 140,700.00
250 North Main Loop					
100	8" PVC Water Line	LF	100	\$ 90.00	\$ 9,000.00
103	10"x10"x8" Tee	EA	1	\$ 3,200.00	\$ 3,200.00
104	Highway Bore	LF	100	\$ 350.00	\$ 35,000.00
106	8" Gate Valve	EA	1	\$ 3,600.00	\$ 3,600.00
107	10" Gate Valve	EA	2	\$ 4,500.00	\$ 9,000.00
				Total	\$ 59,800.00