



**Squaw Creek, Yucca, Mesa, Cactus,  
Verde Road Improvements and  
Water Line Upgrade Project**

**November 26, 2024**



# Squaw Creek, Yucca, Mesa, Cactus, and Verde Road Improvements

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## Functional Classification

- Collector

## Determination of Right-of-Way

- 60' right-of-way

## Pavement Type

- Asphalt Pavement

## Maintenance Records

- Pavement Deterioration

## Pavement Condition Rating

- Poor

## Utility Work

- Water upgrade
- Undersized culverts

## Citizen Input

- General public support

## Funding

- To be determined







Raveling



Patches



Alligator Cracks



Distortion



Potholes



Longitudinal cracks



Block cracks



Rutting



# Squaw Creek Road

- The **Squaw Creek Road** Improvements consists of a 12" pulverized (road-mixed) P2 stabilized asphalt and base, compacting, and resurfacing with 6" hot-mix asphaltic concrete (HMAC) pavement. Included is a 9" concrete ribbon curb along the edge of the new pavement.
- **Yucca, Mesa, Cactus, and Verde Road** Improvements consists of an 8" pulverized (road-mixed) P2 stabilized asphalt and base, compacting, and resurfacing with 2" hot-mix asphaltic concrete (HMAC) pavement.



Aerial Map



- Drainage improvements include upsizing existing culverts at creek crossings.
- The undersized culverts will be designed to convey the 100-year storm.



## **Squaw Creek Road – Undersized Culverts**

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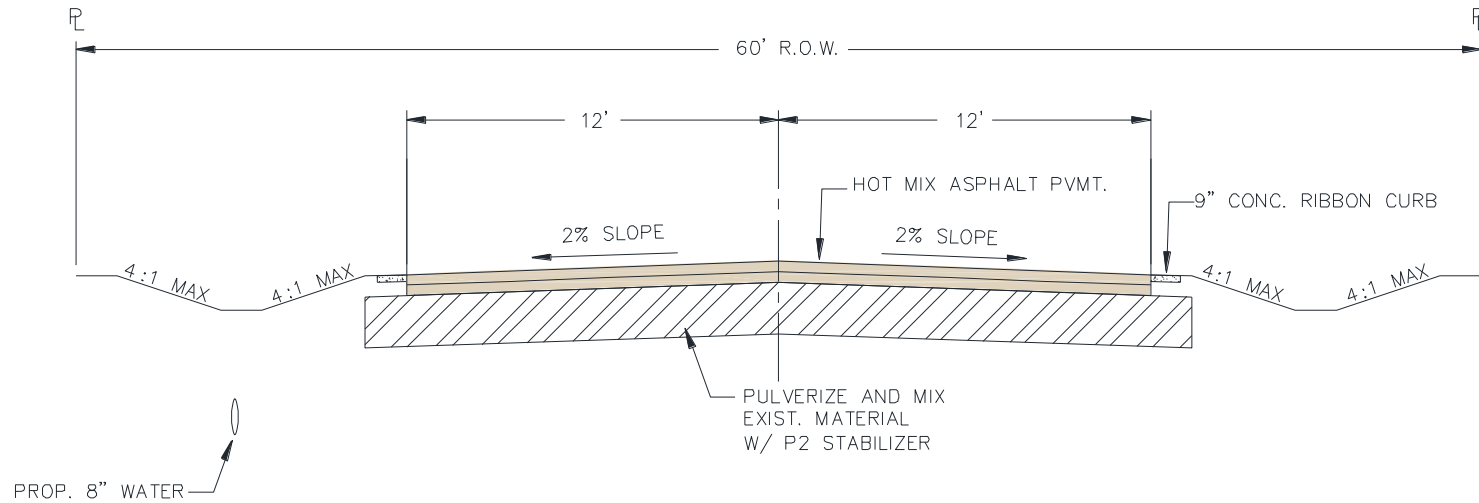
# Water Line Upgrade

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- **Squaw Creek Road** - Installation of approximately 7,950 linear feet (1.5 miles) of 8" PVC water line, water service/meter reconnections, and associated appurtenances.
- **Yucca, Mesa, Cactus, and Verde Roads** - Installation of approximately 6,180 linear feet (1.2 miles) of 8" PVC water line, water service/meter reconnections, and associated appurtenances.



# Typical Street Section Detail



HOT MIX ASPHALT PAVEMENT

N.T.S.

# Squaw Creek Road Improvements – Preliminary Estimate

ITEM	ITEM DESCRIPTION	UNIT	QUANTITY	PRICE	AMOUNT
1	12" Pulverized (Road-Mixed) P2 Stabilized Asphalt & Base	SY	22,970	\$16.00	\$367,520
2	P2 Stabilizer	Gal	34,450	\$5.00	\$172,250
3	Prime Coat	Gal	10,600	\$5.00	\$53,000
4	4" HMAC Base Course TYB	SY	21,200	\$35.00	\$742,000
5	2" HMAC Surface Course TYD	SY	21,200	\$18.00	\$381,600
6	9" Concrete Ribbon Curb	LF	15,900	\$33.00	\$524,700
7	Reflective Pvmt Marking (TY I) (Y) (4")(100MIL)	LF	15,900	\$3.00	\$47,700
8	Drainage Improvements	LS	1	\$450,000.00	\$450,000
9	Hydromulch	SY	17,680	\$2.50	\$44,200
10	Mobilization, TCP, SWPPP, Materials Testing	@ 15 % LS	1	\$417,500	\$417,500
11	Construction Contingency	@ 20 % LS	1	\$556,600	\$556,600
12	Engineering and Surveying	@ 12 % LS	1	\$334,000	\$334,000

**Total: \$4,091,100.00**

Note: The above Opinion of Probable Construction Cost is only an opinion and is based on the information known to the Engineer at this time. The Engineer has no control over the cost of labor, materials, equipment, or over the Contractor's methods of determining prices or over competitive bidding or market conditions. The Engineer cannot and does not guarantee that proposals, bids, or actual construction costs will not vary from its opinions of probable costs.



# Squaw Creek Road Water Upgrade – Preliminary Estimate

ITEM	ITEM DESCRIPTION	UNIT	QUANTITY	PRICE	AMOUNT
1	8" PVC AWWA C900, DR-18, Water Line (By Open-cut)	LF	6,315	\$110.00	\$694,650
2	8" PVC AWWA C900, DR-18, Water Line (By Other than Open-cut)	LF	810	\$175.00	\$141,750
3	Bore & Encasement	LF	825	\$450.00	\$371,250
4	Fire Hydrant Assembly	EA	20	\$7,500.00	\$150,000
5	8" Gate Valve and Box	EA	10	\$3,500.00	\$35,000
6	Connection to Existing Water line	EA	7	\$8,500.00	\$59,500
7	Water Service Replace & Recon (3/4")	EA	68	\$2,700.00	\$183,600
8	Trench Safety	LF	6,315	\$4.00	\$25,260
9	Hydromulch Seeding	SY	13,250	\$2.50	\$33,125
10	Mobilization, TCP, SWPPP, Materials Testing @	15 % LS	1	\$254,200	\$254,200
11	Construction Contingency @	20 % LS	1	\$338,900	\$338,900
12	Engineering and Surveying @	12 % LS	1	\$203,300	\$203,300
<b>Total:</b>					<b>\$2,490,600.00</b>

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# Yucca, Mesa, Cactus, and Verde Road Improvements – Preliminary Estimate

ITEM	ITEM DESCRIPTION	UNIT	QUANTITY	PRICE	AMOUNT
1	8" Pulverized (Road-Mixed) P2 Stabilized Asphalt & Base	SY	17,860	\$15.00	\$267,900
2	P2 Stabilizer	Gal	26,780	\$5.00	\$133,900
3	Prime Coat	Gal	4,120	\$5.00	\$20,600
4	2" HMAC Surface Course TYD	SY	16,480	\$18.00	\$296,640
5	Drainage Improvements	LS	1	\$220,000.00	\$220,000
6	Hydromulch	SY	13,740	\$2.50	\$34,350
7	Mobilization, TCP, SWPPP, Materials Testing	@ 15 % LS	1	\$146,100	\$146,100
8	Construction Contingency	@ 20 % LS	1	\$194,700	\$194,700
9	Engineering and Surveying	@ 12 % LS	1	\$116,900	\$116,900

**Total: \$1,431,100.00**

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# Yucca, Mesa, Cactus, and Verde Roads Water Upgrade – Preliminary Estimate

ITEM	ITEM DESCRIPTION	UNIT	QUANTITY	PRICE	AMOUNT
1	8" PVC AWWA C900, DR-18, Water Line (By Open-cut)	LF	5,130	\$110.00	\$564,300
2	8" PVC AWWA C900, DR-18, Water Line (By Other than Open-cut)	LF	870	\$175.00	\$152,250
3	Bore & Encasement	LF	180	\$450.00	\$81,000
4	Fire Hydrant Assembly	EA	8	\$7,500.00	\$60,000
5	8" Gate Valve and Box	EA	9	\$3,500.00	\$31,500
6	Connection to Existing Water line	EA	11	\$8,500.00	\$93,500
7	Water Service Replace & Recon (3/4")	EA	46	\$2,700.00	\$124,200
8	Trench Safety	LF	5,130	\$4.00	\$20,520
9	Hydromulch Seeding	SY	10,310	\$2.50	\$25,775
10	Mobilization, TCP, SWPPP, Materials Testing @	15 % LS	1	\$173,000	\$173,000
11	Construction Contingency @	20 % LS	1	\$230,700	\$230,700
12	Engineering and Surveying @	12 % LS	1	\$138,400	\$138,400
<b>Total:</b>					<b>\$1,695,200.00</b>

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# Thank you

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Gretchen Vazquez, City Engineer

Chase McBride, Public Works Director

Michelle Guelker, Assistant City Manager