



Rainwater Harvesting System

*Karn Boyce
Oro Valley Water Utility*

Project Layout



- 3 – 6x8 feet metal cisterns placed on cement pads each with a 1,800 gallon capacity
- Gutter with splash guard and fascia modification
- Overflow outlets

Town of Oro Valley

Potential Rainwater Collection



Month of Year	Total Roof Yield for System 1 (Water Utility and Court) in gallons	Total Roof Yield of System 2 (Admin) in gallons
January	1897.1	1669.3
February	1687.68	1485.03
March	1552.17	1365.79
April	535.87	471.52
May	458.88	403.78
June	458.88	403.78
July	3969.75	3493.06
August	4410.15	3880.58
September	2780.98	2447
October	2319.02	2040.56
November	1284.24	1130.03
December	1974.09	1737.05
Annual Total	23328.81	20527.48
Tank Capacity	3600 gallons	1800 gallons

Town of Oro Valley

Tank Placement at the Water Utility Building



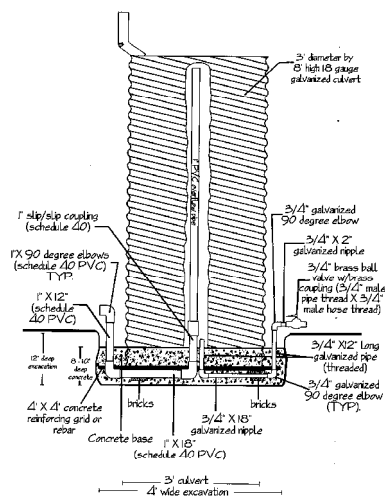
Town of Oro Valley

Piping for the Tank



Town of Oro Valley

APPENDIX D CULVERT CISTERN DETAIL



Source: Scott Calhoun, ACNP and Josephine Thomason

The Near Future



- ☞ New landscaping with berms and basins where applicable for additional water harvesting and to capture overflow
- ☞ Create a landscape based on the amount of water you can store and supplement with potable water from the irrigation system when needed
- ☞ Interpretive signs

Town of Oro Valley



Questions?