



Town of Firestone Water Dedication Note & Calculations

Insert appropriate Water Dedication language for each application.

Water dedication language for *Commercial PDP & FDP* applications as follows:

WATER DEDICATION

WATER DEDICATION WAS DETERMINED BASED ON INFORMATION PROVIDED BY THE APPLICANT. THE TOTAL AMOUNT OF CBT WATER TO BE DEDICATED TO THE TOWN WAS CALCULATED BASED ON ACRES OF IRRIGATED LANDSCAPING ON THE SITE AND TOTAL ESTIMATED DOMESTIC (IN-BUILDING) DEMAND. THE TOWN SHALL AT ALL TIMES HAVE THE RIGHT TO REQUIRE ADDITIONAL WATER DEDICATION IF ACTUAL CONSUMPTION EXCEEDS THIS CALCULATED ESTIMATE. IF THE TOWN DETERMINES THAT ADDITIONAL CBT WATER IS TO BE DEDICATED THE LOT OWNER SHALL PROVIDE THE WATER WITHIN 30 DAYS WRITTEN NOTICE BY THE TOWN. THE ADDITIONAL DEDICATION SHALL BE BASED ON THE TOWN'S THEN CURRENT WATER DEDICATION POLICIES.

THE TOWN OF FIRESTONE HAS DETERMINED THAT THE REQUIRED CBT DEDICATION TO BE:

IRRIGATION DEMAND = _____ SHARES

DOMESTIC DEMAND = _____ SHARES

A TOTAL OF _____ SHARES SHALL BE TRANSFERRED TO THE TOWN PRIOR TO ISSUANCE OF ANY CERTIFICATE OF OCCUPANCY.

Water dedication language for *Commercial OFDP* applications as follows:

WATER DEDICATION

WATER DEDICATION WAS DETERMINED BASED ON INFORMATION PROVIDED BY THE APPLICANT. THE TOTAL AMOUNT OF CBT WATER TO BE DEDICATED TO THE TOWN WAS CALCULATED BASED ON ACRES OF IRRIGATED LANDSCAPING. THE TOWN SHALL AT ALL TIMES HAVE THE RIGHT TO REQUIRE ADDITIONAL WATER DEDICATION IF ACTUAL CONSUMPTION EXCEEDS THIS CALCULATED ESTIMATE. IF THE TOWN DETERMINES THAT ADDITIONAL CBT WATER IS TO BE DEDICATED THE OWNER SHALL PROVIDE THE WATER WITHIN 30 DAYS WRITTEN NOTICE BY THE TOWN. THE ADDITIONAL DEDICATION SHALL BE BASED ON THE TOWN'S THEN CURRENT WATER DEDICATION POLICIES.

THE TOWN OF FIRESTONE HAS DETERMINED THAT THE REQUIRED CBT DEDICATION TO BE:

IRRIGATION DEMAND = _____ SHARES

A TOTAL OF _____ SHARES SHALL BE TRANSFERRED TO THE TOWN PRIOR TO RECORDING OF THE FINAL PLAT AND THE OVERALL FINAL DEVELOPMENT PLAN.

Water dedication language for *Residential* applications as follows:

WATER DEDICATION

THE TOWN OF FIRESTONE HAS DETERMINED THAT THE REQUIRED CBT DEDICATION TO BE:

IRRIGATION DEMAND (PARKS AND OPEN SPACE)

IRRIGATION DEMAND = _____ SHARES

RESIDENTIAL DEMAND (SINGLE FAMILY)

OF LOTS 0-10,000 SF = _____ @ 1.00 SHARES EACH = _____

OF LOTS 10,001-12,500 SF = _____ @ 1.25 SHARES EACH = _____

OF LOTS 12,501-15,000 SF = _____ @ 1.50 SHARES EACH = _____

OF LOTS 15,001-17,500 SF = _____ @ 1.75 SHARES EACH = _____

OF LOTS 17,501-20,500 SF = _____ @ 2.00 SHARES EACH = _____

OF LOTS 20,501-23,000 SF = _____ @ 2.25 SHARES EACH = _____

OF LOTS 23,001-25,500 SF = _____ @ 2.50 SHARES EACH = _____

OF LOTS 25,501-28,000 SF = _____ @ 2.75 SHARES EACH = _____

OF LOTS 28,001-30,500 SF = _____ @ 3.00 SHARES EACH = _____

OF LOTS 30,501-33,000 SF = _____ @ 3.25 SHARES EACH = _____

OF LOTS 33,001-35,500 SF = _____ @ 3.50 SHARES EACH = _____

OF LOTS 35,501-38,000 SF = _____ @ 3.75 SHARES EACH = _____

OF LOTS 38,001-41,000 SF = _____ @ 4.00 SHARES EACH = _____

OF LOTS 41,001-43,500 SF = _____ @ 4.25 SHARES EACH = _____

DOMESTIC DEMAND = _____ SHARES

RESIDENTIAL DEMAND (MULTI-FAMILY)

OF DWELLING UNITS = _____ @ 0.50 SHARES EACH = _____

DOMESTIC DEMAND = _____ SHARES

TOTAL DOMESTIC DEMAND = _____ SHARES

A TOTAL OF _____ SHARES SHALL BE TRANSFERRED TO THE TOWN PRIOR TO
ISSUANCE OF ANY CERTIFICATE OF OCCUPANCY.

WATER DEDICATION CALCULATIONS

IRRIGATION DEMAND

$$\text{IRRIGATION DEMAND} = \frac{2.5 \text{ CBT Shares}}{\text{Acre of landscaped area}}$$

DOMESTIC DEMAND

SINGLE FAMILY RESIDENTIAL DEMAND

<u>Lot Size (ft²)</u>	<u>CBT Share Dedication</u>
0-10,000	1.00
10,001-12,500	1.25
12,501-15,000	1.50
15,001-17,500	1.75
17,501-20,500	2.00
20,501-23,000	2.25
23,001-25,500	2.50
25,501-28,000	2.75
28,001-30,500	3.00
30,501-33,000	3.25
33,001-35,500	3.50
35,501-38,000	3.75
38,001-41,000	4.00
41,001-43,500	4.25

$$\text{RESIDENTAL MULTI – FAMILY DEMAND} = \frac{0.5 \text{ CBT Share}}{\text{Dwelling Unit}}$$

$$\text{COMMERICAL DEMAND} = \frac{(\text{Total water usage for 1 year (acre – feet)} * 120\%)}{\frac{0.70 \text{ acre – feet}}{\text{CBT Share}}}$$

***See example calculation**

TOTAL CBT SHARES

The total CBT Shares shall be rounded up to a whole number.

EXAMPLE:

Irrigation Demand = 1.15 CBT shares

Domestic Demand = 0.66 CBT shares

Total CBT Shares = 1.81 shares (round up to 2 shares)

EXAMPLE CALCULATION FOR COMMERCIAL DOMESTIC DEMAND

1. Look at and submit 12 months of water bills from a similar size and type of building
2. Calculate domestic average usage for the year (exclude summer months irrigation usage)

EXAMPLE:

January	=	7,100 Gallons
February	=	7,300 Gallons
March	=	8,200 Gallons
April	=	14,000 Gallons
May	=	22,000 Gallons
June	=	30,000 Gallons
July	=	35,000 Gallons
August	=	35,000 Gallons
September	=	25,000 Gallons
October	=	8,500 Gallons
November	=	7,600 Gallons
December	=	8,200 Gallons

$$\sum_{Oct-April} = 60,900 \text{ gallons}$$

$$\text{Average Monthly Usage} = \left(\frac{60,900 \text{ gallons}}{7 \text{ months}} \right) = 8,700 \text{ gallons/month}$$

$$\text{Average Yearly Usage} = 8,700 \text{ gallons} * 12 \text{ months} = 104,400 \text{ gallons}$$

3. Convert total average usage from gallons to acre-feet

$$\left(\frac{104,400 \text{ gallons}}{7.48 \text{ gallons}} \right) \left(\frac{\text{CF}}{43,560 \text{ SF}} \right) = 0.320 \text{ acre - feet}$$

4. Calculate the commercial domestic demand

$$\text{COMMERCIAL DEMAND} = \frac{(0.320 \text{ acre - feet} * 120\%)}{\frac{0.70 \text{ acre - feet}}{\text{CBT Share}}} = 0.549 \text{ CBT Shares}$$