

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS  
PUBLIC UTILITIES COMMISSION

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SURREBUTTAL TESTIMONY

OF

DAVID F. RUSSELL

FILED ON BEHALF OF THE BRISTOL COUNTY WATER AUTHORITY

IN THE MATTER OF

PROVIDENCE WATER SUPPLY BOARD

DOCKET 4406

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OCTOBER 25, 2013

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## **I. INTRODUCTION**

**Q. Please state your name and business address.**

A. My name is David F. Russell, and my business address is 15 Titcomb Street, Suite 300, Newburyport, Massachusetts 01950.

**Q. Are you the same David Russell who submitted pre-filed direct testimony in this docket?**

A. Yes, I am.

**Q. What is the purpose of this testimony?**

A. I would like to address the Providence Water Supply Board's rebuttal testimony, and the responses of its witnesses to the issues I raised in my direct testimony.

**Q. How have you organized your surrebuttal testimony?**

A. I will address the issues Providence raised in its rebuttal testimony in the same order as in my direct testimony.

## **II. DOCKET OVERVIEW**

**Q. Ms. Bondarevskis addressed the overview section of your direct testimony. Can you please comment on her testimony?**

A. While Ms. Bondarevskis did not file direct testimony in this Docket, she did file rebuttal testimony and pointed out a couple of inaccuracies in the overview section of my direct testimony, which I will address.

First, I was off by several months in my estimate of the duration of time between Providence's last rate increase and its proposal in this case. However, I stand by my statement that the compound increase between the last increase resulting from a full rate case (Docket 3832) and the increase to wholesale customers initially proposed in this case would be about 51%.

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1           However, there was also an increase from an abbreviated case (Docket  
2           4061) in between this case and the last full rate case which resulted in an  
3           Across-The-Board (A-T-B) increase of 9.91%. Therefore, when this  
4           abbreviated rate case increase is factored into the analysis, the compounded  
5           increase in rates to wholesale customers since the last full rate case  
6           increase and the initial increase proposed in this Docket would be 67%  
7           (significantly higher than what I had stated in my direct testimony).

8  
9           Second, she was correct in pointing out that I indicated that Providence  
10          proposed an A-T-B increase for retail customers in this Docket when they did  
11          not. What I meant to say was that Providence proposed what appeared to  
12          be an approximate A-T-B increase (about 22% - see Schedule HJS-20) for  
13          all retail customers (residential, commercial and industrial) that was  
14          significantly lower than the increase proposed for all wholesale customers.  
15          Admittedly, because of the variances in service charges, fire protection  
16          charges and higher wholesale increases, PW did not propose a straight A-T-  
17          B increase to all charges.

18  
19       **III. COST OF SERVICE STUDY EVALUATION**

20       **Q.     The majority of your direct testimony focused on Providence's**  
21       **proposed Cost of Service Study. Can you explain the purpose of a**  
22       **COSS and why it is so important in setting fair rates?**

23       A.     A Cost Of Service Study (COSS) is critically important because its central  
24       purpose is to determine how much it costs the utility to provide service to  
25       each customer class. This translates directly into the level of revenues the  
26       utility should recover from each class. For example, if a COSS determines  
27       that 40% of the utility's total costs are caused by the residential class, then  
28       the residential class should pay the amount of revenues that matches 40% of  
29       the total costs. However, if the utility designs its rates such that the  
30       residential class only produces enough revenue to pay for 30% of the utility's

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1 total cost, then one or more of the other classes will have to subsidize the  
2 residential class and pay more than their fair share. The subsidy resulting  
3 from this scenario is inherently unfair and inequitable. This is why it is so  
4 important that a COSS assign total system costs to each customer class in  
5 proportion to the level each class causes the utility to provide service. I refer  
6 to this principle of ratemaking as the "cost causation principle."  
7

8 The primary goal in developing a COSS should be to ensure that each  
9 customer class pays its fair share of total system costs. The intent should  
10 not be to get the lowest rates possible for one or more classes, at the  
11 expense of one or more other classes. As set forth in my direct and  
12 surrebuttal testimony, it is my opinion that Providence violated the "cost  
13 causation principle" in its COSS. Providence is attempting to shift costs to  
14 wholesale customers that they do not cause. By shifting these costs,  
15 Providence is asking that wholesale customers subsidize costs caused by  
16 retail customers.  
17

18 **Corrected Net Plant Values**

19 **Q. In your direct testimony, you stated that Providence should make**  
20 **corrections to its Net Plant Values. Did Providence make these**  
21 **corrections?**

22 **A.** Yes. They did make very significant corrections and adjustments.  
23

24 **Q. Do you agree with the corrections Providence made?**

25 **A.** It is not possible for me to say absolutely that Providence made all  
26 corrections needed to be sure that its Net Plant Values are what they should  
27 be. They certainly appear to be more reasonable than those initially filed.  
28 The asset values in the initial filing and the corrected values submitted  
29 several weeks after the filing date were dramatically different. To assure the  
30 Commission and ratepayers that the values are correct, Providence should

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1 have an independent consultant verify the accuracy of each plant account or  
2 specify how one or more should be adjusted based on detailed supporting  
3 analysis. I recognize that this probably cannot be accomplished at this time  
4 in this Docket, but it should be accomplished before the next case is filed.  
5

6 **Classification of Transmission and Distribution Pipes**

7 **Q. After reading Providence's testimony regarding its classification of**  
8 **transmission and distribution pipes, have you changed your position**  
9 **in your direct testimony?**

10 A. No, I have not changed my position. Providence did not provide any rebuttal  
11 testimony to support its position, or which would cause me to change my  
12 position.  
13

14 In his rebuttal testimony, Mr. Gadoury seems to argue that there is no  
15 difference at all between transmission and distribution pipes. He states:

16  
17 "All mains, with the exception of a small number of dead-ended  
18 branches or isolated pockets, are part of an intertwined network of  
19 interconnected water pipe loops which all synergistically function  
20 together to constitute a complete water delivery system to all categories  
21 of customers." (P. Gadoury Rebuttal, p. 3, lines 21-26)  
22

23 "The attempt by the wholesale interveners to categorize certain main  
24 sizes as exclusively benefitting retail customers (or wholesale  
25 customers) represents an overly simplified and unrealistic view of how a  
26 networked system of water pipes actually functions." (P. Gadoury  
27 Rebuttal, p. 3, lines 8-15)  
28

29 This testimony completely ignores the fact that a distinction *has* to be made  
30 between distribution and transmission pipes for rate setting purposes.  
31 Providence's own witness, Mr. Smith acknowledges this fact.

32  
33 "Transmission pipes are water mains which are used to convey water  
34 throughout different areas of the Providence Water system, at which  
35 point smaller distribution mains are used to convey water within these  
36 areas to the service lines, which provide water to each individual

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1 Providence Water customer. Transmission mains also convey water  
2 to Providence Water's wholesale customers, which have their own  
3 local distribution system that is used to provide water to their retail  
4 customers.

5  
6 In theory, transmission mains are understood to be 'used and useful'  
7 by both wholesale and retail customers, whereas distribution mains  
8 are only used by retail customers. In terms of main replacement,  
9 wholesale and retail customers should share in the cost of replacing  
10 transmission mains, whereas retail customers should solely be  
11 responsible for the distribution mains which serve them. Given that  
12 the water system is interconnected however, it can be difficult to  
13 determine exactly which customers are served by which mains." (H.  
14 Smith Rebuttal, p. 16, lines 15-27).

15  
16  
17 However, Providence *has* made the distinction between transmission and  
18 distribution mains in its filings with the Rhode Island Department of Health.  
19 As stated in my direct testimony, Providence's Infrastructure Replacement  
20 Reports classify 12 inch pipe as distribution pipe, not transmission pipe.

21  
22 In his rebuttal testimony, Mr. Gadoury claims this distinction was for  
23 "convenience purposes" only. He also claims that labeling 12 inch pipe as  
24 distribution pipe is not determinative of their function. Thus, being mindful of  
25 Mr. Gadoury's testimony that a pipe's function is more determinative of its  
26 classification, the Commission should closely examine the function of  
27 Providence's 12 inch pipes, its pipes greater than 12 inches, and to what  
28 extent each category of pipes benefit wholesale customers.

29  
30 **Q. Please describe how different sized pipes function in serving wholesale**  
31 **customers.**

32 A. As set forth in my direct testimony, the four largest wholesale customers of  
33 Providence Water (East Providence, Kent County, Warwick and Bristol  
34 County) are responsible for 81.4% of all wholesale water purchases (based  
35 on four year averages contained in Schedule HJS-23). Each of these  
36 customers is served directly from the transmission system via water mains

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1 30 inches or larger (see Providence's response to BCWA 1-14 and Pamela  
2 Marchand's surrebuttal testimony). In order to maintain water pressure  
3 through the system, smaller mains (i.e. 12 inches and smaller) are not  
4 normally used to supply larger mains. Thus, wholesale customers receive no  
5 benefit from those smaller mains.

6  
7 Furthermore, all of Providence Water's wholesale customers are connected  
8 in at least one location to a transmission main 16 inches or larger. (See  
9 Providence Response to KCWA 5-1) And, all but three of Providence  
10 Water's wholesale customers – East Smithfield, Johnston and Kent County –  
11 are feed *only* from transmission mains that range in size from 20 inches  
12 to 102 inches. . East Smithfield, in addition to being feed from one 16 inch  
13 main, is also connected to two smaller mains - one 8 inch and one 12 inch.  
14 Johnston, in addition to being feed from three 24 inch main and one 20 inch  
15 main is also connected to two smaller 12 inch mains. Kent County, in  
16 addition to being feed from one 78 inch main, is also connected to one 12  
17 inch main. (See Providence's response to KCWA 5-1)

18  
19 To further calculate the relative benefits of piping used to supply wholesale  
20 customers, I computed the total water supplied to wholesale customers  
21 directly from mains 16 inches and larger versus the amount supplied directly  
22 from water mains 12 inches or smaller. (See Providence Response to KCWA  
23 5-1)

24  
25 Attached to my testimony is Exhibit DFR-SR-1, which lists the five  
26 interconnections between Providence and wholesale customers fed from  
27 Providence water mains 12 inches (four locations) or smaller (one is an 8  
28 inch main). (See Providence Response to KCWA 5-1) In FY 2012, metered  
29 consumption from these five interconnections totaled 549,772 HCF. (See  
30 Providence Response to BCWA 1-11) Two of the five locations (the Capital  
31 Street and Nardolillo Street interconnections, both serving the Town of

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1 Johnston) only contributed 6,783 HCF to the total (only about 1% of the  
2 total). Thus, the benefit provided by two of the five interconnections on the  
3 list provided almost no benefit to wholesale customers. In total, the five  
4 listed locations only provided 4.16% (549,772 HCF/13,213,689 HCF) of the  
5 total water supplied to wholesale customers for that fiscal year. Thus, the  
6 other 95.84% was directly supplied off the transmission system by water  
7 mains that ranged in size from 16 inches all the way up to 102 inches in  
8 diameter.

9  
10 In my view this percentage is so small that it should be ignored for cost of  
11 service purposes, and all mains 12 inches and smaller should be classified  
12 as distribution mains that provide no benefit to transmission facilities or  
13 wholesale customers. However, if the Commission desires to assign a  
14 percentage of costs associated with 12 inch pipes to the wholesale  
15 customers, this percentage should not be greater than 4.16%, or rounded up  
16 to 5%.

17  
18 Adding 12 inch mains to the distribution category changes the allocation of  
19 T&D plant from 48.71% to the transmission main category to 37.68%; and  
20 from 51.29% to the distribution category to 62.32%. This shift results in  
21 significant changes within Providence's rate model in both the K1 and K2  
22 allocators, which in turn result in a significant shift in costs of service from the  
23 wholesale customer class to the retail class. While holding all other inputs  
24 unchanged and just making the one shift in T&D plant just described to  
25 Providence's rate model reduces the total wholesale allocation by \$306,672.

26  
27 **Allocation of UAW to Retail and Wholesale Customers**

28 **Q. Do you agree with the changes Providence made to its UAW**  
29 **Calculation?**

30 **A.** As I indicated in my direct testimony, I believed Providence's calculations  
31 were flawed for two reasons. First, Providence based its UAW calculations



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1 on pipe length and diameter, rather than pipe length alone. By making this  
2 change and adding 225 miles of service pipe to the distribution category (as  
3 also agreed to by Providence in rebuttal testimony), the wholesale share of  
4 UAW is reduced from 24.3% to 8.6%. (see HJS Exhibit 14 Update in the rate  
5 model submitted with Providence's rebuttal testimony - a copy of which is  
6 attached as Exhibit DFR SR-2)

7  
8 Second, Providence categorized 12 inch pipe as transmission pipe in its  
9 UAW calculation, and has not agreed to correct this second flaw. As set  
10 forth hereinabove, and in my direct testimony, 12 inch pipes provide very little  
11 benefit to wholesale customers. Therefore, for cost of services purposes and  
12 in apportioning UAW between retail and wholesale customers they should be  
13 treated as distribution mains and not lumped with transmission mains.

14  
15 Additionally, after reviewing all rebuttal testimony and considering all of the  
16 arguments relative to the issue of what length of service pipe to include as  
17 distribution pipe in the allocation of losses between retail and wholesale  
18 customers, I agree with Mr. Woodcock and have included an additional 125  
19 miles of service pipe beyond the length that Providence agreed to (350 miles  
20 instead of 225 miles of service pipe)

21  
22 Attached to my testimony is Exhibit DFR SR-3. This Exhibit is a copy of HJS  
23 Exhibit 14 Update, except that I have added two corrections outlined above  
24 that Mr. Smith did not include. First, I added the length of 12 inch mains to  
25 the distribution category and deducted it from the transmission category.  
26 Second, I increased the length of service pipe to 350 miles, which increases  
27 both the total length of all pipe and the total length of distribution pipe by 125  
28 mile. As can be seen on my Exhibit these two changes result in the  
29 wholesale share of UAW being reduced to 4.31% (from 8.60%). While  
30 holding all other inputs unchanged and just making the two changes to

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1 Providence's rate model reduces the total wholesale allocation by \$289,392.

2

3 **Allocation Factors**

4 **Q. In your direct testimony you suggested that Providence revise a**  
5 **number of allocation factors. Did Providence make these changes?**

6 **A.** Yes, Providence made the adjustments to the allocation factors identified  
7 in my direct testimony, with two exceptions:

- 8
- 9 • Allocation Factors K1 and K2 - Mr Smith indicated that land  
10 values would be removed from the calculation of these  
11 factors with his rebuttal testimony. (See Providence  
12 Response to KCWA 1-19) He failed to do this. Because of  
13 the long standing practice of not including land; the fact that  
14 very few land purchases are expected in the future (and if  
15 any are purchased in the future, they will likely be paid for  
16 from State Water Protection Charge Funds); and the fact  
17 that he reneged on a commitment very late in the process  
18 that the interveners relied on, Providence should be required  
19 to revise the rate model and exclude land from the  
20 calculation of these two Allocation Factors.
  - 21
  - 22 • Allocation Factors HM, HMC, and HOC - Mr Smith indicated  
23 that these factors would be updated and averaged over the  
24 3 years covering the period FY2010 through FY2012, and  
25 that his rebuttal testimony would reflect this revision. (See  
26 Providence response to KCWA 1-13). Mr. Smith did not do  
27 this. While he updated allocators, he added 3 more years to  
28 make it a six year average. Mr. Smith did this because  
29 using the three year average he agreed to would result in a  
30 65% increase in public fire protection. So once again,

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1 Providence is asking that other customer classes subsidize  
2 costs they don't cause. Furthermore, because he reneged  
3 on a commitment that the interveners relied on very late in  
4 the process, Mr Smith should be required to revise the rate  
5 model and use only the most recent 3 years to derive the  
6 allocation percentages for each of these three Allocation  
7 Factors.

8  
9 **Direct Allocation of Dedicated Facilities**

10 **Q. Did Providence agree with your suggestion that it should change**  
11 **cost allocations for dedicated facilities?**

12 A. No, they did not.  
13

14 **Q. Have you changed your position on this issue?**

15 A. No, I have not changed my belief that where appropriate, and where data is  
16 economically available, direct allocations to cost components or customer  
17 classes should be made. However, upon further review and consideration of  
18 the particular circumstances involved with the direct allocation I proposed in  
19 my direct testimony, I will withdraw it as part of this case. My primary  
20 reasons for doing so are twofold. First, given PW's current accounting and  
21 reporting protocols, separating the O&M costs related to the six pump  
22 stations that were considered would not be economically feasible at this time.  
23 Second, because most of these facilities, are either very old or were donated  
24 by others; and because Providence does not include depreciation as a rate  
25 revenue requirement, the level of capital costs involved is very small.

26  
27 However, my initial recommendation in this regard is not a departure from  
28 accepted industry practice as stated by Ms. Bonderevskis and Mr. Smith in  
29 their rebuttal testimonies. Direct allocations to one cost category or one  
30 customer class are standard practice in the industry. In fact, where a  
31 particular cost is known to be 100% related to one cost category or one

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1 customer class, the use of allocation factors that would divide such a cost to  
2 two or more cost categories or customer classes would be a deviation from  
3 the cost causation principle described above. Furthermore, it would result in  
4 incorrectly assigning cost to a category or customer class that has no  
5 relationship to, or associated causal responsibility for, the cost being  
6 allocated.

7  
8 In fact, Mr. Smith made direct allocations in his COSS. Two examples of  
9 direct allocations Mr. Smith used are the direct assignment of hydrant costs  
10 to the fire protection category and the direct assignment of capital costs  
11 associated with smaller size mains (currently 8 inch and smaller mains) to  
12 only retail customers in his allocation of plant assets. In this case,  
13 Providence clearly indicated that six booster pump stations and four related  
14 emergency generators were used solely by and only benefitted retail  
15 customers.

16  
17 In future COSSs, I recommend that for any facilities that only serve and  
18 benefit one class of customers and for which the costs associated with those  
19 facilities can be easily identified and separated, those costs should be  
20 directly assigned to the customers that caused PW to incur those costs.  
21 Because of the nature of integrated water systems and in many cases  
22 established accounting and/or reporting practices I recognize that such  
23 opportunities are somewhat rare, but where they are known reasonable  
24 efforts should be made to make direct assignment of costs.

25  
26 **Infrastructure Repair and Replacement Program (IFR)**

27 **Q. Did Providence agree to your proposed changes regarding the**  
28 **assignment of costs related to its IFR program?**

29 **A.** No, they did not.  
30  
31

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1  
2 **Q. Do you agree with Providence's rebuttal testimony on this issue?**

3 A. No. For the reasons explained in my direct testimony I believe that the  
4 very large and multi-decade investment in distribution mains (including 12  
5 inch pipes as specified above) over the next twenty years fully warrants a  
6 deviation from the current method of allocating Providence's IFR costs. In  
7 my direct testimony I outlined an approach to accomplish such a  
8 modification. However, I did not recommend a specific modification to the  
9 current method. I will do so here.

10  
11 As outlined in my direct testimony I recommend dividing the Infrastructure  
12 Replacement Capital into two components. One would include all or some  
13 portion dedicated to distribution mains, which would be allocated to all  
14 cost components except wholesale. The other would include the  
15 remaining portion of the IFR program costs which would be allocated to all  
16 cost categories including wholesale as currently proposed by Providence  
17 for all of the IFR program costs.

18  
19 For the first component, I recommend including a relatively small portion  
20 of the costs related to distribution mains (\$15.4 million). For the rate year  
21 I would only include 10% of the costs related to distribution mains (\$15.4  
22 million), which amounts to \$1.54 million, leaving \$13.86 million that would  
23 also be allocated using the current method. The \$1.54 million would only  
24 be allocated to retail customers. The net effect in the rate year would be  
25 a reduction of \$415,800 in IFR costs allocated to wholesale customers  
26 and a corresponding increase in the costs to retail customers. The  
27 following Tables show how the allocation of costs would change in the  
28 rate year between the current methodology and my recommended  
29 approach.  
30  
31

**Table 1a. Allocation of IFR Costs to Retail and Wholesale Customers using Providence's method.**

IFR Costs	Amount	Current Method - Cost to Retail	Current Method - Cost to Wholesale
90% of Distribution Main Costs	\$13.860 Million	\$10,117,800	\$3,742,200
10% of Distribution Main Costs	\$1.540 Million	\$1,124,200	\$415,800
All Other IFR Costs	\$8.600 Million	\$6,278,000	\$2,322,000
Total IFR Costs	\$24.000 Million	\$17,520,000	\$6,480,000

**Table 1b. Allocation of IFR Costs to Retail and Wholesale Customers using the recommended method.**

IFR Costs	Amount	Proposed Method - Cost to Retail	Proposed Method - Cost to Wholesale
90% of Distribution Main Costs	\$13.680 Million	\$10,117,800	\$3,742,200
10% of Distribution Main Costs	\$1.540 Million	\$1,540,000	\$0
All Other IFR Costs	\$8.600 Million	\$6,278,000	\$2,322,000
Total IFR Costs	\$24,000 Million	\$17,935,800	\$6,064,200

Going forward for each of the 9 years following the rate year, an additional \$1.54 million of water main costs would be excluded from any portion allocated to the wholesale customer class. Then beginning in the eleventh year \$1.54 million would be added back to the amount of costs to be allocated between the retail cost categories and the wholesale customer class, and continue each year thereafter through the twentieth year. Thus, by the end of the twentieth year, which corresponds to the

---

1 duration of the 20 year IFR Plan, all of the IFR costs would again be  
2 allocated using the current methodology.  
3

4 **Unidirectional Flushing Program (“UDF”)**

5 **Q. In its rebuttal testimony, Providence continues to maintain that costs**  
6 **related to Providence’s unidirectional flushing program be assigned**  
7 **to wholesale customers. Do you agree with their testimony?**

8 A. No, I do not.  
9

10 **Q. Have you changed your position that costs related to Providence’s**  
11 **unidirectional flushing program should not be assigned to wholesale**  
12 **customers?**

13 A. No. I have not. Again, the central issue here is whether or not 12 inch  
14 water mains provide any significant benefit to wholesale customers. As  
15 specified above, Providence has a transmission system consisting almost  
16 entirely of pipes ranging from 16 inches in diameter to over 100 inches in  
17 diameter. Only three wholesale customers are served by 12 inch (or  
18 smaller) connections and each of those customers are served at other  
19 interconnection locations from mains much larger than 12 inches in size.  
20 Thus, the level of service and benefit provided to the wholesale class of  
21 customers by pipes 12 inches and smaller is extremely small in  
22 comparison to that provided by pipes 16 inches or larger. As I outlined  
23 above I have estimated that relative percentage of benefits to be  
24 approximately 4.16% for mains that are 12 inches in diameter or smaller  
25 versus 95.84% for all larger size transmission mains. Thus, once again,  
26 4.16% is the maximum amount of UDF costs that should be assigned to  
27 wholesale customers. While only about \$10,000 of these cost are being  
28 allocated to wholesale customers, that amount should be reduced to zero  
29 in Providence's rate model.  
30

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1    **Conversion to Monthly Billing**

2    **Q.    Did Providence's rebuttal testimony address your position that**  
3        **the costs associated with Providence's monthly billing conversion**  
4        **should not be assigned to wholesale customers?**

5    A.    No, and I continue to maintain that wholesale customers should not be  
6        responsible for these costs. Because the wholesale customers have  
7        historically been billed on a monthly basis, the costs associated with this  
8        program are incurred solely to convert Providence Water's retail distribution  
9        customers to monthly billing. Providence claims there are somewhat higher  
10       administrative costs associated with billing wholesale customers than billing  
11       a retail customer. However, even if this were true, those additional costs are  
12       unrelated to the costs of converting retail customers to monthly billing.  
13       Therefore, none of the costs of converting retail customers to monthly billing  
14       should be allocated to the wholesale customer class.

15  
16    **IV. REVENUE REQUIREMENTS**

17    **New Central Operations Facility**

18    **Q.    Do you still have concerns about Providence's new Central Operations**  
19        **Facility (COF) and its proposal to include a cash capital revenue**  
20        **requirement to pay for related costs?**

21    A.    Yes, I remain very concerned about Providence's request for \$2.45 million  
22        dollars of annual funding for the COF when Providence has provided  
23        almost no support for this request. Furthermore, the information  
24        Providence *did* provide – when requested by the other parties in this  
25        Docket – does not provide any clarity or support for Providence's request.

26  
27        When Providence filed its direct testimony, *none* of its witnesses testified  
28        about the need or cost for a COF. Providence's General Manager, Boyce  
29        Spinelli, and Paul Gadoury, the retired Director of Engineering, never  
30        mentioned the need for a COF in their testimony. In fact, the only



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1 documentation that evidenced Providence's request was Paul Gadoury's  
2 Exhibit PG-5, which claimed to lay out Providence's Capital Plan for FY13  
3 through FY17. This Capital Plan included a "New PW Central Operations  
4 Facility". Providence listed the "Total" for this project as \$12,000,000 with  
5 annual funding of \$2,400,000 over five years. This was Providence's sole  
6 support for an enormously expensive public works project that ratepayers will  
7 have to fund. As the parties would learn through discovery, the actual annual  
8 funding request is \$2,450,000 per year, and the COF could cost in excess of  
9 \$50 million.

10  
11 Due to the lack of information Providence provided, the BCWA and Kent  
12 County Water Authority ("KCWA") issued several data requests seeking  
13 information about the COF. Rather than clarifying issues regarding the cost,  
14 form of ownership and financing for the COF, Providence's responses only  
15 raised more questions.  
16

17 **Q. Has Providence clarified the total cost of the COF?**

18 A. No they have not. The information provided by Providence regarding the  
19 *potential* cost of the COF is as follows:

- 20 • In response to KCWA 2-15, Providence provided portions of an executive  
21 summary from a 2009 CDM Report entitled "Providence Water Supply  
22 Board Facility Assessment-Phase II." This report set forth a number of  
23 recommendations and cost ranges from \$9.4 million to \$39.5 million.  
24
- 25 • In response to KCWA 2-15, Providence also provided a November 15,  
26 2010 memorandum from its Director of Finance, Jean Bondarevskis,  
27 seeking approval to borrow funds for a COF.  
28

- 
- 1       • According to Ms. Bondarevskis' memorandum the highest estimated cost  
2       for the COF "could be \$39 million dollars."  
3
- 4       • Providence's response to KCWA 2-15 also included a November 17, 2010  
5       Providence Water Supply Board Resolution that authorized a \$39 million  
6       borrowing for the COF.  
7
- 8       • Yet, Providence has not explained why its Board chose the most  
9       expensive option of \$39 million dollars for the COF.  
10
- 11      • In fact, the BCWA asked this direct question of Providence in BCWA 4-5  
12      a. Ms. Bondarevskis did not answer this question. Rather, she stated that  
13      Ms. Marchand, Providence's former Chief Engineer, "requested that the  
14      memo to the Board approve that amount." She did not answer why the  
15      Board authorized that amount or what analysis went into approving that  
16      amount.  
17
- 18      • Despite the fact that Providence's Board approved a \$39 million  
19      borrowing, Mr. Gadoury's Exhibit PG-5 only listed a "Total" of \$12 million  
20      dollars for the COF.  
21
- 22      • In response to BCWA 2-3, Providence indicated that Dimeo Construction  
23      opined that the "probable construction cost" for the COF is "\$36 million (in  
24      2013 dollars)."  
25
- 26      • The BCWA later requested the DiMeo report and received multiple  
27      versions of the report.  
28
- 29      • Dimeo provided several different estimates for several different types of  
30      buildings (See Exhibit DFR SR-4):

- 
- 50,000 sq. ft., two story building with a total estimated price of **\$14,531,227** (\$290.625/sq. ft.), including security building, contingency, escalation, permits, insurance, C.M. Fee, P&P bond, Architects & Engineers fee and a \$1,000,000 furnishing allowance (dated 1/12/11).
  - 80,000 sq. ft. two story office building with a total estimated price of **\$21,655,624** (\$270.695/sq. ft.), including security building, contingency, escalation, permits, insurance, C.M. Fee, P&P bond, Architects & Engineers fee and a \$1,600,000 furnishing allowance (dated 1/12/11).
  - 80,000 sq. ft. three story office building with a total estimated price of **\$22,136,651** (\$276.708/sq. ft.), including security building, contingency, escalation, permits, insurance, C.M. Fee, P&P bond, Architects & Engineers fee and a \$1,600,000 furnishing allowance (dated 1/12/11).
  - 60,000,000 sq. ft. Maintenance building with a total estimated price of **\$14,392,686** (\$239.878/sq. ft.), including security building, contingency, escalation, permits, insurance, C.M. Fee, P&P bond, Architects & Engineers fee and a \$30,000 furnishing allowance (dated 1/12/11)
  - Six Building Campus with a total estimated price of **\$43,008,479** including contingency, escalation, permits, insurance, C.M. Fee, P&P bond, Architects & Engineers fee and a \$1,600,000 furnishing allowance (dated 5/15/13).
  - New Campus - 7 Site Development - 440,500,000 sq. ft. with a with a total estimated price of **\$35,918,095** including contingency, escalation, permits, insurance, C.M. Fee, P&P bond, Architects & Engineers fee and a \$1,000,000 furnishing allowance (dated 7/31/13).

- The DiMeo estimates do not appear to be the total project cost. It appears these are only the construction costs for a building or buildings.
- In its response to BCWA 2-3, Providence acknowledged that the DiMeo cost estimates do “not include yearly operational costs, land purchase or lease costs and any site remediation costs that may be required.”

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- As such, when all the necessary costs for the COF are added together, they will exceed all of DiMeo's estimates.
- Furthermore, Providence provided two letters of intent dated September 3, 2013 in Response to BCWA 4-4 that seem to provide different cost scenarios for the COF.
- The first letter describes the lease of a 53,000 square foot administration facility. There are two alternative terms – 20 years or 30 year lease-to-own. The payments under the twenty year lease total \$23,323,212. The payments under the 30 year least-to-own total \$36,845,235. The terms upon which Providence would exercise its option to own are not clearly stated in the letter. The departments housed at this proposed facility would be Administration, Finance, MIS, Engineering, Support Services, Forestry and Watershed Security.
- A second Letter of Intent, also dated September 3, 2013, describes the construction of a 29,000 sq. ft. Admin building; an 8,400 sq. ft. Stock Building; a 7,000 sq. ft. Automotive Repair Facility; a 12,000 sq. ft. storage facility and a 46,000 sq. ft. two story garage. The "development cost" of these facilities is \$21,271,000.
- It is unclear whether Providence plans to pursue one or both options outlined in these letters of intent. If they pursue both, the combined costs could reach \$58,116,235.

Based on the documentation Providence provided, there is absolutely no way to discern the cost of the COF, or whether the cost of the COF is reasonable.

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1  
2 **Q. Has Providence clarified whether they will own or lease the COF?**

3 A. No, based on the information set forth above, there is no way to tell  
4 whether Providence will lease or own the facility.  
5

6 **Q. Has Providence clarified how they will finance the COF, or the terms**  
7 **of financing?**

8 A. No. In her rebuttal testimony, Ms. Bondarevskis stated:  
9

10 “Providence Water intends to use long term financing, once all the details  
11 are worked out and Providence Water will then file with the Division of  
12 Public Utilities for financing approval. (Bondarevskis Rebuttal, p. 7, lines  
13 15-18).”  
14

15 This does not provide any details on the financing. In fact it causes more  
16 concern than it provides answers.  
17

18 **Q. Why?**

19 A. There is no way to know how Providence intends to “work out” the details.  
20 While Ms. Bondarevskis indicates that Providence will file for financing  
21 approval with the Division, there is no indication that Providence will ever  
22 come back to the Commission and explain how it “worked out” the details  
23 of the COF. Under Providence’s proposal neither the Commission, nor the  
24 ratepayers, will ever get to evaluate the cost, and the reasonableness of  
25 the cost, for the COF.  
26

27 According to Providence, there is \$6 million in the Capital Improvement  
28 Fund. (Providence Response to BCWA 4-9 b.) Ms. Bondarevskis claims  
29 that Providence will use this \$6 million for “land purchase, site work and to  
30 defray the long terms cost” of the COF. (Bondarevskis Rebuttal, p.7, lines  
31 18-20). She likens the use of these accumulated funds “to putting a good  
32 down payment on a home...” The problem is we don’t know anything

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1 about the “home” Providence wants to buy. Furthermore, we don’t even  
2 know if Providence is buying a home, they may just be renting. However,  
3 the biggest problem is that they want ratepayers to pay for a home when  
4 Providence can’t even tell them the cost, location or terms of the  
5 “mortgage.”  
6

7 **Q. Do you have any other concerns or recommendations?**

8 A. Yes. In addition to the foregoing, if this facility is eventually approved and  
9 built, I believe that the vast majority of the cost of this facility, because of  
10 its long life expectancy (40 to 50 years or more), should be paid for over  
11 time with bonded debt. It is only through such a funding mechanism that  
12 a majority of the capital costs of such a facility can be spread over an  
13 extended period of time and thus be paid for by those that will benefit  
14 most from its use for many years into the future. Providence has  
15 accumulated \$6 million in cash in its Capital Fund. This is more than  
16 enough money for the “down payment” once Providence receives  
17 permission for the Commission to go forward with procuring a COF.  
18 Therefore, I recommend that the Capital Improvement Fund be restricted  
19 and that no additional funds be withdrawn for this potential project until a  
20 specific site and cost it is approved by this Commission and any other  
21 agencies from which approval is required.  
22

23 **Rate Case Expenses And Amortization**

24 **Q. In its rebuttal testimony, Providence disagreed with your proposal to**  
25 **amortize rate case expense over six years. Have you changed your**  
26 **position?**

27 A. Yes, to a degree. I still believe that rate case expenses should be amortized  
28 over a period of time based on the historic average of the intervals between  
29 full rate cases going back at least 3 or 4 full rate cases (not including  
30 abbreviated rate cases). As clearly presented in my direct testimony I  
31 recommend 6 years for the amortization period. Providence believes it will

---

1           come before the Commission for another full rate case in two years (which in  
2           itself is troubling), and therefore the amortization period should be 2 years. If  
3           PW prognosticated that it would be back for another full rate increase in 1  
4           year, is that a reasonable justification for shortening the amortization period  
5           to 1 year? What happens if the Commission did allow a 2 year amortization  
6           and for whatever reason Providence didn't request another rate increase for  
7           3 or 4 years? Would Providence recover two times the allowed amount, if it  
8           did take four years before its next rate increase request? The Commission  
9           should not base its decision in this matter based on Providence's belief at  
10          this time. Plans are subject to change without notice. Even if their belief  
11          turns out to be true, that short interval (2 years) should only be useful in  
12          shortening the average interval between full rate cases as part of  
13          determining the amortization period for rate case expenses in the next rate  
14          case.

15  
16          Notwithstanding the foregoing, upon further review and consideration of the  
17          rebuttal testimonies and some responses to information requests received  
18          after my direct testimony I believe a fair compromise between the parties  
19          would be a four year amortization period. If approved, this would reduce the  
20          proposed recovery of this expense by 50% from \$116,811 to \$58,406 in the  
21          rate year.

## 22 23   **V. RATE DESIGN**

### 24   **Conservation rates**

25   **Q.    Have you changed your position on conservation rates for wholesale**  
26       **customers at this time?**

27   **A.    No. I have not, and I note that Providence agrees on this issue.**  
28  
29  
30

---

1    **Q.     Have you prepared a revised COSS?**

2    A.     Other than the exhibits attached to my testimony, I have not prepared a  
3           completely revised cost of service study.

4

5    **Q.     Why not?**

6    A.     Currently, three rate models have been produced – Providence's, the  
7           Division's and Kent County's. Further, it is my understanding that Providence  
8           and the Division may have reached a settlement. I do not know for sure,  
9           because the Bristol County Water Authority was not invited to participate in  
10          these discussions. If a settlement is presented, then this will likely produce  
11          another version of the rate model and COSS that the Commission will have  
12          to consider. Since the BCWA and the KCWA are proposing very similar  
13          adjustments, I believe it would simplify the proceedings at hearing if the  
14          BCWA did not add another rate model and COSS to the mix as it would  
15          include many of the same adjustments proposed by the KCWA. However, I  
16          am happy to submit any schedules the Commission requests that may show  
17          any variances between the BCWA and KCWA surrebuttal positions.

18

19    **VI. CONCLUSION**

20    **Q.     Mr. Russell, does that conclude your testimony at this time?**

21    A.     Yes, it does.



## Exhibit DFR SR-1

The following provides an estimate of the relative benefit that smaller size water mains provide to Wholesale Customers:

1. Total water consumption in FY 2012 taken by the Town of East Smithfield through their Dean Avenue connection (8" service line to a 8" main) with PW.	72,337 HCF
2. Total water consumption in FY 2012 taken by the Town of East Smithfield through their Waterman Avenue connection (12" service line to a 12" main) with PW.	198,843 HCF
3. Total water consumption in FY 2012 taken by the Town of Johnston through their Capitol Street connection (8" service line to a 12" main) with PW.	2,630 HCF
4. Total water consumption in FY 2012 taken by the Town of Johnston through their Nardolillo Street connection (8" service line to a 12" main) with PW.	4,153 HCF
5. Total water consumption in FY 2012 taken by the KCWA through their Oaklawn Avenue connection (12" service line to a 12" main) with PW.	<u>271,809 HCF</u>
6. Total All 5 Interconnections (Sum lines 1 through 5)	549,772 HCF
7. Total Wholesale Consumption FY12	<u>13,213,689 HCF</u>
8. Percent of total Supply from Smaller Pipe Sizes (line 6 / line7)	<u>4.16%</u>

# Exhibit DFR SR-2

HJS Exhibit 14 Update

## Inch-Mile Calculations Year Ending June 20, 2006

	Pipe Size (inches)	Length (miles)	Inch-Miles		
	6	482.44	2,894.64		
	8	290.25	2,322.00		
	10	3.06	30.60		
	12	93.99	1,127.88		
	16	40.97	655.52		
	20	5.89	117.80		
	24	24.09	578.16		
	30	16.09	482.70		
	36	1.93	69.48		
	42	4.88	204.96		
	48	2.42	116.16		
	60	4.19	251.40		
	66	1.60	105.60		
	78	4.39	342.42		
	90	4.47	402.30		
	102	5.18	528.36		
	Services	225.00			
<b>Totals</b>		1,210.84	10,229.98		
				Length %	Inch-Miles %
Local Distribution (10" or less)		1,000.75	5,247.24	82.65%	51.29%
Transmission (12" and greater)		210.09	4,982.74	17.35%	48.71%

### Unaccounted for Water Responsibility

#### *Retail Customers*

Local Distribution	82.65%
Transmission	8.75%
<b>Total Retail Share of Unaccounted for Water</b>	<b>91.40%</b>

#### *Wholesale Customers*

Local Distribution	0.00%
Transmission	8.60%
<b>Total Wholesale Share of Unaccounted for Water</b>	<b>8.60%</b>

# Exhibit DFR SR-3

HJS Exhibit 14 Update (Modified)

## Inch-Mile Calculations Year Ending June 20, 2006

	Pipe Size (inches)	Length (miles)	Inch-Miles		
	6	482.44	2,894.64		
	8	290.25	2,322.00		
	10	3.06	30.60		
	12	93.99	1,127.88		
	16	40.97	655.52		
	20	5.89	117.80		
	24	24.09	578.16		
	30	16.09	482.70		
	36	1.93	69.48		
	42	4.88	204.96		
	48	2.42	116.16		
	60	4.19	251.40		
	66	1.60	105.60		
	78	4.39	342.42		
	90	4.47	402.30		
	102	5.18	528.36		
	Services	350.00			
<b>Totals</b>		1,335.84	10,229.98		
				Length %	Inch-Miles %
Local Distribution (12" or less)		1,219.74	5,247.24	91.31%	51.29%
Transmission (16" and greater)		116.10	4,982.74	8.69%	48.71%
<b><u>Unaccounted for Water Responsibility</u></b>					
<i>Retail Customers</i>					
Local Distribution			91.31%		
Transmission			4.38%		
<b>Total Retail Share of Unaccounted for Water</b>			95.69%		
<i>Wholesale Customers</i>					
Local Distribution			0.00%		
Transmission			4.31%		
<b>Total Wholesale Share of Unaccounted for Water</b>			4.31%		

1/12/2011



**Providence Water Supply Board  
50,000 sqft Office Building  
Budget**

---

<b>Estimator</b>	<i>ffxs</i>
<b>Job size</b>	50000 SF
<b>Job cost job number</b>	227-10
<b>Notes</b>	Office building is budgeted as a 50,000 sqft two story building. 25,000 sqft per floor Concrete foundations, slab on grade steel framed construction. An FF&E (Furnishings Allowance) of \$20 per SF (\$1,000,000) in included

1/12/2011



**Providence Water Supply Board**  
**50,000 sqft Office Building**  
**Budget**

Location	Group	Phase	Description	Takeoff Quantity	Sub Name	Total Cost/Unit	Total Amount
			Electrical Complete				1,350,000
	16200.010		Power Generation				
			Generators	1.00 ea		75,000.00 /ea	75,000
			Power Generation				75,000
			ELECTRICAL				1,425,000
			HEADQUARTERS				10,889,678

1/12/2011



**Providence Water Supply Board**  
**50,000 sqft Office Building**  
**Budget**

**Partial Totals**

Labor			
Material			
Subcontract			
Equipment			
Other			
	<u>10,889,678</u>	10,889,678	
FF&E \$20/SF Allowance	1,000,000		
Security - Booth Building	<u>1,000,000</u>	11,889,678	
Contingency	<u>594,484</u>		5.000 %
	594,484	12,484,162	
Escalation	<u>436,946</u>		3.500 %
	436,946	12,921,108	
Building Permit	<u>193,817</u>		1.500 %
	193,817	13,114,925	
G & L Insurance	<u>111,477</u>		8.500 \$ / #####
	111,477	13,226,402	

**DIMEO CONSTRUCTION COMPANY**  
 Providence, Rhode Island



**Providence Water Supply Board  
50,000 sqft Office Building  
Budget**

1/12/2011

**Partial Totals**

C.M. Fee (2.85%)	<u>376,952</u>		2.850 %
	<b>376,952</b>	<b>13,603,354</b>	
P&P Bond	<u>105,351</u>		0.725 %
	<b>105,351</b>	<b>13,708,705</b>	
Architects & Engineers Fees	822,522		6.000 %
	<i>Partial Total</i>	<b>14,531,227</b>	<b>290.625 /SF</b>

1/12/2011



**Providence Water Supply Board  
80,000 sqft Two Story Office Building  
Budget**

---

<b>Estimator</b>	<i>ffxs</i>
<b>Job size</b>	80000 sqft
<b>Job cost job number</b>	227-10
<b>Notes</b>	<p>Office building is budgeted as an 80,000 sqft two story building. 40,000 sqft per floor. Concrete foundations, slab on grade steel framed construction.</p> <p>An FF&amp;E (Furnishings Allowance) of \$20 per SF (\$1,600,000) is included.</p>



1/12/2011



**Providence Water Supply Board**  
**80,000 sqft Two Story Office Building**  
**Budget**

Location	Group	Phase	Description	Takeoff Quantity	Sub Name	Total Cost/Unit	Total Amount
			<u>Controls</u>				<u>400,000</u>
			MECHANICAL				3,252,000
	16000.000		ELECTRICAL				
		16000.010	Electrical Complete				
			Electrical (Sqft)	80,000.00 sf		27.00 /sf	<u>2,160,000</u>
			Electrical Complete				2,160,000
		16200.010	Power Generation				
			Generators	1.00 ea		93,750.00 /ea	<u>93,750</u>
			Power Generation				<u>93,750</u>
			<u>ELECTRICAL</u>				<u>2,253,750</u>
			HEADQUARTERS				16,118,972

1/12/2011



**Providence Water Supply Board  
80,000 sqft Two Story Office Building  
Budget**

**Estimate Totals**

Labor			
Material			
Subcontract			
Equipment			
Other			
	<u>16,118,972</u>	16,118,972	
FF&E \$20/SF Allowance	1,600,000		
Security - Booth Building	<u>1,600,000</u>	17,718,972	
Contingency	<u>885,949</u>		5.000 %
	885,949	18,604,921	
Escalation	<u>651,172</u>		3.500 %
	651,172	19,256,093	
Building Permit	<u>288,841</u>		1.500 %
	288,841	19,544,934	
G & L Insurance	<u>166,132</u>		8.500 \$ / #####
	166,132	19,711,066	

**DIMEO CONSTRUCTION COMPANY**  
Providence, Rhode Island

1/12/2011



**Providence Water Supply Board  
80,000 sqft Two Story Office Building  
Budget**

**Estimate Totals**

<b>C.M. Fee (2.85%)</b>	<u>561,765</u>		2.850 %
	<b>561,765</b>	<b>20,272,831</b>	
<b>P&amp;P Bond</b>	<u>157,003</u>		0.725 %
	<b>157,003</b>	<b>20,429,834</b>	
<b>Architects &amp; Engineers Fees</b>	1,225,790		6.000 %
	<b>Total</b>	<b>21,655,624</b>	<b>270.695 /sqf</b>

1/12/2011



**Providence Water Supply Board  
80,000 sqft Three Story Office Building  
Budget**

---

<b>Estimator</b>	<i>tfxs</i>
<b>Job size</b>	80000 sqft
<b>Job cost job number</b>	227-10
<b>Notes</b>	<p>Office building is budgeted as an 80,000 sqft three story building. 26,667 sqft per floor. Concrete foundations, slab on grade steel framed construction.</p> <p>An FF&amp;E (Furnishings Allowance) of \$20 per SF (\$1,600,000) is included.</p>

1/12/2011



**Providence Water Supply Board  
80,000 sqft Three Story Office Building  
Budget**

Location	Group	Phase	Description	Takeoff Quantity	Sub Name	Total Cost/Unit	Total Amount
			Controls				400,000
			MECHANICAL				3,252,000
	16000.000		ELECTRICAL				
		16000.010	Electrical Complete				
			Electrical (Sqft)	80,000.00 sf		27.00 /sf	2,160,000
			Electrical Complete				2,160,000
		16200.010	Power Generation				
			Generators	1.00 ea		93,750.00 /ea	93,750
			Power Generation				93,750
			ELECTRICAL				2,253,750
			HEADQUARTERS				16,512,555

**DIMEO CONSTRUCTION COMPANY**

Providence, Rhode Island

1/12/2011



**Providence Water Supply Board  
80,000 sqft Three Story Office Building  
Budget**

**Estimate Totals**

Labor			
Material			
Subcontract			
Equipment			
Other			
	<u>16,512,555</u>	16,512,555	
FF&E \$20/SF Allowance	1,600,000		
Security - Booth Building	<u>1,600,000</u>	18,112,555	
Contingency	<u>905,628</u>		5.000 %
	905,628	19,018,183	
Escalation	<u>665,636</u>		3.500 %
	665,636	19,683,819	
Building Permit	<u>295,257</u>		1.500 %
	295,257	19,979,076	
G & L Insurance	<u>169,822</u>		8.500 \$ / #####
	169,822	20,148,898	

**DIMEO CONSTRUCTION COMPANY**  
Providence, Rhode Island

1/12/2011



**Providence Water Supply Board  
80,000 sqft Three Story Office Building  
Budget**

**Estimate Totals**

<b>C.M. Fee (2.85%)</b>	<u>574,244</u>		2.850 %
	<b>574,244</b>	<b>20,723,142</b>	
<b>P&amp;P Bond</b>	<u>160,491</u>		0.725 %
	<b>160,491</b>	<b>20,883,633</b>	
<b>Architects &amp; Engineers Fees</b>	1,253,018		6.000 %
	<b>Total</b>	<b>22,136,651</b>	<b>276.708 /sqf</b>

1/12/2011



**Providence Water Supply Board  
60,000 sqft Maintenance Building  
Budget**

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<b>Estimator</b>	<i>tfxs</i>
<b>Job size</b>	60000 SF
<b>Job cost job number</b>	227-10
<b>Notes</b>	Maintenance building is budgeted as a 60,000 sqft one story building. Concrete foundations, slab on grade steel framed construction, concrete block and brick exterior veneer. An FF&E (Furnishings Allowance) of \$30,000 in included



1/12/2011



Providence Water Supply Board  
60,000 sqft Maintenance Building  
Budget

Location	Group	Phase	Description	Takeoff Quantity	Sub Name	Total Cost/Unit	Total Amount
			Power Generation				75,000
			ELECTRICAL				1,155,000
			VEHICLE MAINT.				11,746,321

DIMEO CONSTRUCTION COMPANY

Providence, Rhode Island



**Providence Water Supply Board  
60,000 sqft Maintenance Building  
Budget**

1/12/2011

**Partial Totals**

Labor			
Material			
Subcontract			
Equipment			
Other			
	<u>11,746,321</u>	11,746,321	
FF&E Allowance	30,000		
Security - Booth Building	<u>30,000</u>	11,776,321	
Contingency	<u>588,816</u>		5.000 %
	588,816	12,365,137	
Escalation	<u>432,780</u>		3.500 %
	432,780	12,797,917	
Building Permit	<u>191,969</u>		1.500 %
	191,969	12,989,886	
G & L Insurance	<u>110,414</u>		8.500 \$ / #####
	110,414	13,100,300	

**DIMEO CONSTRUCTION COMPANY**  
Providence, Rhode Island



**Providence Water Supply Board  
60,000 sqft Maintenance Building  
Budget**

1/12/2011

**Partial Totals**

C.M. Fee (2.85%)	<u>373,359</u>		2.850 %
	<b>373,359</b>	<b>13,473,659</b>	
P&P Bond	<u>104,347</u>		0.725 %
	<b>104,347</b>	<b>13,578,006</b>	
Architects & Engineers Fees	814,680		6.000 %
	<b>Partial Total</b>	<b>14,392,686</b>	<b>239.878 /SF</b>



Providence Water Supply Board  
New Campus Budget  
Six Buildings Plus Sitework

Exhibit DFR SR-4 5/15/2013

Estimate Totals

Description	Amount	Totals	Rate
		32,153,719	
FF&E \$20/SF Allowance	<u>1,600,000</u>		
	1,600,000	33,753,719	
Estimating Contingency	<u>3,375,372</u>		10.00 %
	3,375,372	37,129,091	
Escalation per Year	<u>1,113,873</u>		3.00 %
	1,113,873	38,242,964	
Building Permit	<u>573,644</u>		1.50 %
	573,644	38,816,608	
G & L Insurance	<u>329,941</u>		8.50 \$ / 1,000
	329,941	39,146,549	
C.M. Fee (2.85%)	<u>1,115,677</u>		2.85 %
	1,115,677	40,262,226	
P&P Bond	<u>311,811</u>		0.73 %
	311,811	40,574,037	
Architects & Engineers Fees	2,434,442		6.00 %
<b>Total</b>		<b>43,008,479</b>	



Providence Water Supply Board  
New Campus Budget  
Summary Totals

7/31/2013

Exhibit DFR SR-4

Bid Item	Phase	Description	Takeoff Quantity	Total Cost/Unit	Total Amount
2820.010		Improvmnts: Fencing			112,875
2840.050		improvmnts: Bollard/Rails			19,200
2840.080		Improvmnts: Parking Items			100,000
2900.010		Landscape: General			60,000
7 Site Development		440,500 sf	440,500.00 sf	6.30 /sf	2,772,979

Estimate Totals

Description	Amount	Totals	Rate
		28,709,975	
FF&E Allowance	<u>1,000,000</u>		
	1,000,000	29,709,975	
Estimating Contingency	<u>2,228,248</u>		7.50 %
	2,228,248	31,938,223	
Building Permit	<u>479,073</u>		1.50 %
	479,073	32,417,296	
G & L Insurance	<u>275,547</u>		8.50 \$ / 1,000
	275,547	32,692,843	
C.M. Fee (2.85%)	<u>931,746</u>		2.85 %
	931,746	33,624,589	
P&P Bond	<u>260,406</u>		0.73 %
	260,406	33,884,995	
Architects & Engineers Fees	2,033,100		6.00 %
<b>Total</b>		<b>35,918,095</b>	

## CERTIFICATION

I hereby certify that on October 25, 2013, I sent a copy of the within to all parties set forth on the attached Service List by electronic mail and copies to Luly Massaro, Commission Clerk, Robert A. Watson, Esquire and Peter D. Ruggiero by electronic mail and regular mail.

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