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Planning, Research & Evaluation

2016 Cost Containment Report

9/15/2016



OVERVIEW AND CONTEXT

Containing the cost of developing housing is a critical issue in Minnesota. In 2014, nearly 600,000 Minnesota households were cost burdened by spending more than 30 percent of their income on housing. Since 2000, this number has increased 69 percent because median household incomes have declined by 8.1 percent (after adjusting for inflation) and median housing costs have increased by 5.6 percent. If we are to address the growing need for affordable housing, we must build and preserve as many affordable units as possible with the limited resources available, which requires us to be cost conscious. However, cost containment requires tradeoffs and a balanced approach.

- Using lower quality materials and less efficient systems will reduce upfront costs, but they can
 also increase ongoing maintenance, repair, and utility costs, which may not be cost-effective in
 the long run.
- Using lower quality materials and more basic designs for a building's exterior will also reduce costs, but they will also make it more challenging to fit affordable housing in the surrounding neighborhood, particularly higher-incomes communities, which can lead to community opposition and increase costs related to delays, re-design, and projects not moving forward.
- Siting developments in less desirable locations can save money, but it can also reduce the tenants' access to opportunity, including jobs, services, amenities, safe neighborhoods, public transportation, good schools, and other benefits.

We based our 2016-19 Strategic Plan on the principle that housing is the foundation for success, providing individuals, families and communities the opportunity to thrive. To achieve this outcome for as many lower-income households as possible, we need to finance high-quality, durable, location-efficient housing that is built at the lowest possible cost. We are balancing the goal of cost containment with other policy objectives.

Overall, as the following assessment shows, we have been effective at containing costs over the last decade – maintaining relatively consistent total development costs (TDC) while pursuing other policy objectives that tend to increase costs, including supportive housing for people experiencing long-term homelessness, energy-efficient and healthy homes, and location efficiency. Nevertheless, we are under constant pressure to do more with less and will continue to identify and pursue additional strategies to contain and reduce costs.

This report is broken into two sections – the first addresses multifamily costs, and the second addresses single family costs.

¹ Minnesota Housing analysis of data from the U.S. Census Bureau's *American Community Survey*, 2000 and 2014.

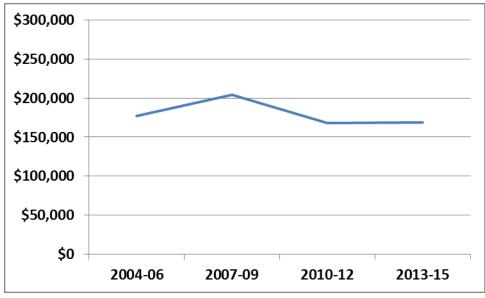
MULTIFAMILY COSTS

In a typical year, we distribute over \$100 million for multifamily development. We must ensure that these funds are efficiently and effectively used to address the growing need for affordable housing. This section of the report shows how we have taken steps to maximize production by containing development costs. The first part of the section provides an overview of our results, and the second part outlines our strategies for achieving those results and improving performance.

Overview of Multifamily Costs

Overall, the average TDC per unit has remained at or below \$200,000 for the last decade, after controlling for inflation in residential construction (which accounts for changes in material and wage costs over time). The data in Figure 1 applies to all types of developments, including new construction, rehabilitation, metro area, Greater Minnesota, tax credit, and non-tax credit. The trend line is influenced not only by the underlying cost trends but also by the mix of projects in a given year. For example, a larger share of resources going to new construction developments with tax credits in the metro area will increase average costs, while a larger share going to rehabilitation developments without tax credits in Greater Minnesota will decrease average costs.





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² To increase the comparability of the data, we excluded developments with a TDC per unit that were less than \$40,000, which took out rehabilitation projects with a more limited scope of work and added consistency to the level of rehabilitation being assessed. We also excluded developments with an overall acquisition cost of less than \$10,000, which excludes projects with no acquisition or heavily subsidized acquisition.

To control for the mix of projects in the trend line, Figure 2 shows average TDC per unit just for new construction projects with tax credits in the Metro area. Again, average costs are relatively constant, but at a slightly higher \$220,000 to \$240,000 level. The relatively consistent or contained cost is the key finding.

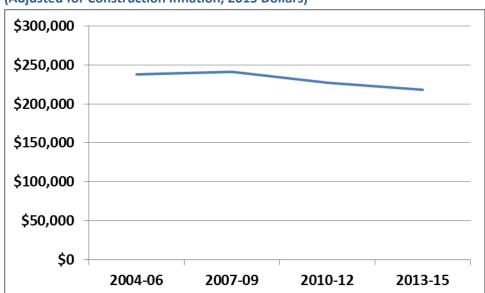


Figure 2: TDC per Unit 2003 to 2014 – New Construction with Tax Credits in the Metro Area (Adjusted for Construction Inflation, 2015 Dollars)

Most importantly, we have contained costs while taking on policy initiatives that tend to increase costs.

- In 2003, we added a selection and funding priority for supportive housing for people experiencing long-term homelessness, which is generally a more costly type of development.
- In 2007, we added our Green Communities Overlay, which requires our developments to have energy-efficient and healthy-home features.
- In the last couple of years, we strengthened our location efficiency priority by making it more
 geographically precise and increasing the points it receives in the selection process. Housing
 that is in a walkable neighborhood and near transit, jobs, and other amenities can be more
 expensive.

While we added or enhanced these policy priorities, we also added cost containment provisions.

• In 2006, we first developed and used our predictive cost model, which compares a development's proposed costs with the costs that we would expect for that development based on the Agency's experience with similar projects and industry-wide standards. This process flags high cost developments and helps maintain costs at a reasonable level.

- With the Qualified Allocation Plan for the 2014 Low-Income Housing Tax Credits (LIHTC), we added a selection criterion that gives preference to the 50 percent of tax credit applications with the lowest TDC per unit.
- In 2014, we also launched the Minnesota Challenge to Lower the Cost of Affordable Housing, which was initiated as an idea competition to identify and address system-level factors (such as land use policies or design standards) that increase costs for all developments. Since this initial competition, we have carried out several activities to address these systemic-cost drivers.

More information on these initiatives is provided in the report's next section.

To effectively contain costs, we must understand the factors that are driving costs. Table 1 provides a break out of costs by project type, location and cost component.

- As discussed previously, new construction with tax credits in the Twin Cities metro area is the
 most expensive type of project, while rehabilitation without tax credits in Greater Minnesota is
 the least expensive.
- Not surprisingly, construction accounts for the clear majority of costs in new construction projects, while construction and acquisition costs are both key cost drivers of rehabilitation projects. Addressing these costs will have the largest impact in reducing or containing TDCs.
- While soft costs account for a smaller share of TDC (15 percent to 25 percent), they should be a
 key focus of cost containment strategies. Reducing construction costs can affect the quality,
 durability, and energy efficiency of the housing; and reducing acquisition costs can affect
 location efficiency and desirability. While soft costs are a necessary component of a housing
 development, eliminating inefficiencies in these costs will not affect the quality of the housing.
- Low-Income Housing Tax Credits (LIHTC) appear to add four to eight percentage points to the share of TDC attributable to soft costs, which is not surprising given the added complexity and cost of putting together and financing a tax credit deal. For developments without tax credits, soft costs account for 15 percent to 18 percent of TDC. That percentage jumps to 21 percent to 25 percent for developments with tax credits.

Table 1: Share of TDC by Project Type, Location & Cost Component Developments Completed between 2004 and 2015 (Adjusted for Construction Inflation, 2016 Dollars)

				9	Share of TDC	
			Avg. TDC	Construc-	Acquisi-	Soft
			per Unit	tion	tion	Costs
New Con	LIHTC	Metro	\$233,601	67%	8%	25%
New Con	No-LIHTC	Metro	\$183,026	72%	11%	18%
New Con	LITHC	Grtr MN	\$190,774	72%	6%	23%
New Con	No-LIHTC	Grtr MN	\$172,017	76%	7%	17%
Rehab	LIHTC	Metro	\$176,560	38%	39%	23%
Rehab	No-LIHTC	Metro	\$120,448	45%	40%	15%
Rehab	LITHC	Grtr MN	\$108,456	39%	40%	21%
Rehab	No-LIHTC	Grtr MN	\$93,979	42%	41%	17%

Over time, each of the three cost components have accounted for a consistent share of TDC, indicating that we are containing each cost component, not just overall costs. See Table 2.

Table 2: New Construction with Tax Credits in the Metro Area – Cost Component Share of TDC 2004 to 2015

	Construc-	Acquisi-	Soft
	tion	tion	Costs
2004-06	68%	7%	25%
2007-09	66%	8%	25%
2010-12	65%	8%	26%
2013-15	69%	7%	24%
2004-15	67%	8%	25%

Strategies for Containing and Reducing Multifamily Costs

As mentioned earlier, we have taken a three pronged approach to containing costs.

- 1. Assess Cost Reasonableness Using a Predictive Cost Model
- 2. Incent Cost Containment and Reductions in the Selection Projects for Low-Income Housing Tax Credits
- 3. Address Systemic Cost Drivers

Strategy 1: Assess Cost Reasonableness Using a Predictive Cost Model

We have developed a cost model that predicts a development's TDC per unit based on its characteristics. To develop the parameters for the model, we run a linear regression analysis on the

inflation-adjusted costs and characteristics of the developments that the Agency financed between 2003 and 2015. The analysis uses the historical data to assess the effect that each of the following factors simultaneously has on TDC per unit:

- Activity Type:
 - New Construction
 - Extensive Rehabilitation³
 - o More Limited Rehabilitation
 - Combination of New Construction and Rehabilitation
 - Conversion/Adaptive-Reuse
- Building Type:
 - Walkup
 - Elevator
 - Townhome
 - Single Family Home/Duplex
 - Other
- Unit Size based on average number of bedrooms per unit in the development
- Gross Square Footage
- Amount of Non-Residential Space
- Location:
 - Minneapolis or Saint Paul
 - Suburbs in Twin Cities Seven-County Metro Area
 - Greater Minnesota Large City⁴
 - Greater Minnesota Regional Job Center⁵
 - o Greater Minnesota Rural
- Year Built
- Garage Type:
 - o None
 - o Above ground
 - Underground
- Acquisition:
 - Land
 - Structure

³ This involves more extensive work on the interior, exterior, electrical, and mechanical systems of a property.

[&]quot;Extensive" versus "more limited" is determined by staff using internal definitions.

⁴ The large cities are Duluth, Rochester, St. Cloud, Moorhead, and Mankato; and include a five-mile commute shed around the cities.

⁵ There are 51 regional job centers, which are the top 15 percent of cities and townships in number of jobs. They include: Albert Lea, Albertville, Alexandria, Austin, Baxter, Bemidji, Brainerd, Buffalo, Cambridge, Cloquet, Cold Spring, Crookston, Detroit Lakes, Elk River, Fairmont, Faribault, Fergus Falls, Goodview, Grand Rapids, Hibbing, Hutchinson, International Falls, La Prairie, Little Falls, Marshall, Montevideo, Monticello, Morris, North Mankato, Northfield, Onamia, Owatonna, Park Rapids, Perham, Pipestone, Red Wing, Roseau, Saint Michael, Saint Peter, Sartell, Sauk Rapids, Thief Rivers Falls, Virginia, Waite Park, Waseca, Willmar, Windom, Worthington, and Wyoming. These areas also include a five-mile commute shed around the cities.

- None
- Financing:
 - Tax Credits
 - Number of Funding Sources
- Special Costs:
 - Historic Preservation
 - Environmental Abatement
 - Supportive Housing

Using those same factors for a proposed development and the model's cost parameters, the model provides a predicted cost for that development. The model is also benchmarked against industry-wide cost data provided by RSMeans to ensure that our costs are in line with the industry.⁶

Overall, the model has worked very well for us. It explains a sizable portion (63 percent to 78 percent) of the variation in the costs for developments that we financed between 2003 and 2015, which is a statistically robust result. In addition, over the last ten years, it has proven very effective at objectively and systematically flagging developments with high costs. Each year, we revise and enhance the model based on the previous year's results and staff feedback.

Over time, we have tested models that predict costs on a per-unit and a per-square-foot basis. Based on our testing, the per-unit models have explained a larger share of the variation. We believe that this has occurred for two reasons. First, some costs are clearly tied to the unit and do not increase with the size of the units. For example, apartments regardless of unit size have one kitchen (unless single-room-occupancy). Second, and most importantly, the per-unit model that we use includes a cost factor that accounts for unit size. Developments with larger units and more bedrooms have higher predicted costs.

Under the policies of Minnesota Housing's Board, when staff recommend to the Board developments for selection and funding, they must identify the developments that have a proposed cost that is more than 25 percent higher than the predicted cost. If staff does recommend a development with costs above this range, they must also explain why the proposed cost is reasonable even though it is more than 25 percent greater than the predicted cost. There are a wide range of reasons why the costs could be reasonable. For example, a housing development and site may be critical to meeting a local housing need, but the site requires an unusually large amount of environmental remediation.

The professional judgement and expertise of our underwriting and architectural staff also play a critical role in the assessment of cost reasonableness. Even if a project has costs that are within the 25 percent threshold, staff will still question costs if they seem high given the context of the development. Our staff

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⁶ RSMeans, *Building Construction Cost Data*, 73rd Annual Addition, 2015. According to RSMeans, construction costs for a 21,000 square-foot walkup apartment with 19 units in Minneapolis are \$117,743 per unit (excluding land acquisition and soft costs). Our model initially predicts \$120,697 per unit for construction costs for this development, or 2.4 percent higher. As a result, when providing a final predicted cost, our model lowers the initial prediction for construction costs by 2.4 percent to bring it in line with the RSMeans data.

has extensive experience reviewing funding applications and development costs. Each year, they typically evaluate 75 or more applications.

Strategy 2: Incent Cost Containment and Reductions in the Selection of Projects for Low-Income Housing Tax Credits

Starting with our Qualified Allocation Plan (QAP) for the 2014 Low-Income Housing Tax Credits, we added a cost criterion for selecting developments to receive the credits. Under the 2014 through 2017 QAPs, the 50 percent of tax credit applications with the lowest TDC per unit are eligible to receive four points in the selection process. We control for activity-type and location cost differences by dividing the applications into four groups.

- 1. New Construction in the Twin Cities metro area
- 2. New Construction in Greater Minnesota
- 3. Rehabilitation in the Twin Cities metro area
- 4. Rehabilitation in Greater Minnesota

Within each of the four groups, the applications with the lowest costs are eligible for the points. As a result, projects are only competing with similar projects for the points. When comparing costs and awarding points, we also adjust costs to account for unit size differences. Projects predominantly with smaller units (efficiencies and one bedroom) have their costs adjusted upward when making comparisons; and projects predominantly with large units (three or more bedrooms) have their costs adjusted downward.⁸

We added the new criterion to encourage cost reductions, not just cost reasonableness. With cost reasonableness and the predictive cost model, developers only have the incentive to propose costs that are in line with previous projects that we have funded. With the new scoring criterion, they now have the incentive to identify costs that may not be necessary, and reduce their costs in the hope of being in the 50 percent of developments with the lowest costs. Because the competition is "blind" (developers do not know the costs of the competing applications and how their development will rank on cost), developers have an incentive to reduce their costs as far as prudently possible.

We do not want the competition to become a "race to the bottom," with developers sacrificing quality and other policy objectives in the name of cost reduction. Thus, we very strategically chose to award four points to projects that meet this criterion.

Table 3 provides the maximum points awarded under each selection criteria for the 2017 QAP.

⁷ The criterion only applies to applications requesting nine percent credits. It does not apply to applications requesting four percent credits with tax-exempt bonds. Receiving four percent credits is a non-competitive process, where projects only need to meet a minimal threshold. The costs of developments seeking four percent credits are assessed using the predictive cost model.

⁸ To be classified as a development with small units, 75 percent or more of the units have to be efficiencies or have one bedroom. To be classified as a development with large units, 50 percent or more of the units have to have three or more bedrooms.

- Four points is meaningful in the selection process and should influence the decisions of
 developers. In many years, there is only a one point difference between the last project selected
 for credits and the first one not selected. There are often several projects within four points of
 the selection threshold. For example, with the October 2015 selections, 17 of the 49 tax credit
 applications scored within this range.
- Four points is less than the points awarded for workforce housing, location efficiency, economic
 integration, and homelessness. Developers do not have an incentive to sacrifice those other
 funding priorities to achieve cost containment.
- Finally, developers cannot sacrifice quality and energy efficiency because all developments must meet our design and green standards.

Table 3: Tax Credit Selection Points, 2017 QAP

Criterion	Points
Supportive Housing for Homeless	15 with 100 bonus
Preservation	30
Unacceptable Practices	-25
Rental Assistance	21
Lowest Income / Rent Reduction	16
Financial Readiness to Proceed	14
Federal/Local/Other Contributions	10
Household Targeting	10
Economic Integration	9
Location Efficiency	9

Criterion	Points
Rural/Tribal	7
Intermediary (Soft) Costs	6
Workforce Housing Community	5
Universal Design	3
Cost Containment	4
Community Recovery	3
High Speed Internet Access	1
Smoke Free Building	1
QCT / Community Revitalization	1
Eventual Tenant Ownership	1

We have limited this selection priority to just developments applying for nine percent tax credits for two reasons. First, tax credit developments generally have higher costs and containment is a larger issue. Second, the level of work done on tax credit developments, particularly rehabilitation, is more consistent across projects and allows for more appropriate and equivalent cost comparisons. The level of rehabilitation, particularly for non-tax credit developments, can vary a lot, and we do not want to incent developers to just pick the projects with minimal rehabilitation needs. Even though cost containment points are awarded only in the competition for nine percent tax credits, we measure all projects requesting agency funding in comparison to the predictive cost model.

Because the scoring criterion is relatively new, we continue to monitor it closely for unintended consequences by assessing the type, size, nature, location, and scope of developments scoring and not-scoring well on it to make sure that the selected projects meet our overall strategic and funding priorities.

One of the challenges for developers created by the cost-containment criterion is managing fluctuations in construction costs, particularly labor costs. Figure 4 shows the annual changes in multifamily construction costs. The blue line shows changes in the Produce Price Index (PPI) for residential construction materials, and the maroon line shows changes in wages for multifamily construction

workers in Minnesota. Wages in particular can vary dramatically from year to year. Developers may plan for a modest 2 percent increase in wages in their funding application, only to find they have increased by 6 percent or 7 percent when construction starts. By taking the cost containment points in the selection process, developers are held accountable for keeping their costs down when construction occurs, even if costs spike. If final actual costs come in too high, we assess developers with *negative* four points for their next tax credit application.

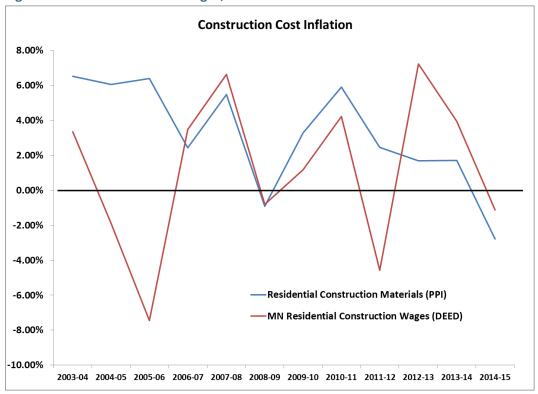


Figure 4: Measures of Cost Changes, 2004 to 2014

With the 2015 applications for 2016 tax credits, we saw a 15 percent spike in proposed costs in the metro area for the developments that we awarded cost containment points, as shown in Table 4. This may be an unintended consequence of our cost containment strategy. There was high construction wage inflation in 2013 and 2014 (maroon line), which developers may have struggled to manage and keep costs down. When developing their 2015 applications, developers may have expected the higher inflation to continue and built that into their proposed costs. However, as shown in the cost data, construction costs actually dropped a little in 2015. Another factor contributing to the higher proposed costs may be developers padding their budgets. Developers risk losing four points on their next application for tax credits if they receive cost containment points on their current application and the actual costs on this project turn out to be too high. To protect against this risk, some developers may pad their budgets. (Because projects can take up to 20 months to close after being selected for funding,

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⁹ Construction cost data is from the Bureau of Labor Statistics, and the wage data is from the Minnesota Department of Employment and Economic Development's *Quarterly Census Employment and Wages*.

projects selected for funding in October 2015 will show up in our 2016 and 2017 cost data for closed projects, and projects selected in October 2016 will show up in the 2017 and 2018 data.)

Table 4: Average Total Development Costs per Unit, 9 Percent Tax Credit Applications in the Metro Area that Were Awarded Cost Containment Points (Adjusted for Construction Inflation, 2016 Dollars)

	2013 Applications	2014 Applications	2015 Applications	2016 Applications
	(2014 Credits)	(2015 Credits)	(2016 Credits)	(2017 Credits)
Metro New Construction	\$210,058	\$210,795	\$242,536	\$242,129

In response to the increase in proposed costs and to encourage developers to pursue the cost containment points, eliminate unnecessary costs, and not excessively pad their budgets, we increased the cost containment points from four to six in the QAP for 2018 tax credits, but kept the penalty for cost overruns at negative four points. This increases the benefit of more aggressively pursuing cost containment relative to the risk. This new scoring will apply to applications that we will receive in June 2017.

Strategy 3: Address Systemic Cost Drivers

The first two tactics address costs that are specific to individual developments. We also understand that systemic cost drivers outside the control of developers are a critical issue that we need to address. These cost drivers ranged from local policies and regulations that increased the cost of housing (such as maximum densities), to the large cash reserves that funders and investors may require for affordable housing developments, to the complexity of assembling the multiple sources of funding that make an affordable housing deal work.

In January 2014, Enterprise Community Partners and the Urban Land Institute's (ULI's) Terwilliger Center for Housing released a report on best practices from across the country to address these systemic cost drivers. Overall, the report finds that containing and reducing costs in a prudent and effective way does not involve a single magic bullet. Rather, affordable housing costs are driven by dozens of small inefficiencies. As one of the lead authors described it, "death by a thousand cuts."

To take on these cost drivers, we partnered with the McKnight Foundation, Enterprise, and ULI/Regional Conference of Mayors to create an initiative for Minnesota to implement these types of practices, which became the MN Challenge to Lower the Cost of Affordable Housing. It began in the winter of 2014 as an idea competition. We asked the development community to create cross-discipline teams (developers, funders, attorneys, local officials, housing advocates, etc.) and develop and submit ideas to address

¹⁰ Enterprise Community Partners and Urban Land Institute's Terwilliger Center for Housing, *Bending the Cost Curve on Affordable Rental Development: Understanding the Drivers of Costs* (January 2014).

¹¹ Michael Spotts, Enterprise Community Partner, presentation to the Affordable Housing Investors Council (AHIC), Portland Oregon, October 9, 2014.

these systemic cost drivers. From the 12 submissions, we selected one to receive \$70,000 for implementation. 12

The winning idea was submitted by the Center for Urban and Region Affairs at the University of Minnesota, the Housing Justice Center, and Becker Consulting. Their proposal addressed the issue of local practices and policies that add to the cost of affordable housing, including fees, land-use and zoning policies, approval processes, and others. These cost drivers have been identified and known for years. The value of this idea was identifying and implementing best practices to address them, which included providing technical assistance to communities to pursue the practices and encouraging regional organizations to incorporate the practices and implementation strategies into their policies and guidelines, including the Metropolitan Council's Planning Handbook and Housing Performance Scores and ULI's Tool Box for local communities.

We have also initiated other projects to address systemic cost drivers.

- Minnesota Housing's Multifamily Remodel Project. While the MN Cost Challenge was kicking off, we were also initiating a remodel project for our Multifamily Division to redesign and streamline our application and funding processes everything from proposal inception through application, selection, underwriting, closing, construction management, and lease up. The remodel will reduce the time it takes a development to move from concept to occupancy. A key finding from the Enterprise/ULI report identified complexity, uncertainty, and delays in the funding process as cost drivers. Several issues identified in the MN Cost Challenge's submissions addressed complexity, uncertainty, and delays in our application and funding processes. These issues and ideas were passed on to the Agency's team leading the remodel project. Even though the redesign is still being implemented, it has already achieved some positive outcomes. For example, between 2013 and 2014, the percentage of developments that closed their loans within 12 month of being selected for funding increased from 12% to 25%. While it is too early to report results from the October 2015 funding selections, we expect another significant improvement.
- MinnDocs Consolidated Legal Documents. Most affordable housing projects have several funding sources, each with their own set of legal documents and attorneys, which add unnecessary costs. The Enterprise/ULI report highlighted Massachusetts' practice that consolidates legal documents for all subordinate debt into a single set. Because the development community in Minnesota was intrigued by this idea, we decided to pursue it. In 2015, we received a \$70,000 grant from the McKnight foundation to implement the practice. The new legal documents are now being finalized. Massachusetts estimates that consolidated legal documents have reduced their costs by about \$10,000 per subordinate loan for each development; however, the context is different in Minnesota, and we are unlikely to achieve that level of savings. If we did, MinnDocs would save \$1,000 per unit for a 40-unit development with four subordinate loans. While this reduces total development costs by less than one

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¹² The initiative was jointly funded by the McKnight Foundation and Minnesota Housing.

percent, it is a very tangible way of chipping away at costs and addressing one of the many inefficiencies. Furthermore, these unnecessary legal costs add up when Minnesota Housing typically finances 2,000 to 3,000 units each year.

• Minnesota Housing's design and construction standards. As part of our annual preparation for the consolidated RFP, we review these standards. During the past year, we specifically reviewed the standards with an emphasis on cost containment. We focused on reducing life-cycle costs, not just upfront costs but also ongoing maintenance, repair, and utility costs. Specifically, we surveyed architects, general contractors, and developers who work on the developments that we finance about the standards and costs. We received 66 responses. Based on the feedback, we made several design changes that should reduce costs. For example, we clarified that a separate dining room is not required in units with two or more bedrooms but that a dining area (or eat in kitchen) is sufficient. Each of the changes to the standards will unlikely result in significant savings, but they are more examples of small savings that can lead to larger savings when combined with each other over time.

SINGLE FAMILY COSTS

While we typically distribute over \$100 million annually for multifamily development, we only distribute \$6 million to \$8 million for single family development through our Community Homeownership Impact Fund. Consequently, we have focused our cost containment efforts more heavily on multifamily projects. In addition, while we directly administer multifamily funding to developers, we rely on local administrators to identify and fund the single-family projects. As a result, the level of cost data that we collect at the Agency for single-family projects is less detailed.

Nevertheless, single-family cost containment is also critical, and we are in the process of enhancing our strategies.

Overview of Single-Family Costs

The total development costs for the single-family projects that we have financed are reasonable and consistent with industry benchmarks. Table 5 shows the median cost per home by location and activity for developments that we have financed over the last three and one-half years.

Table 5: Impact Fund – Median TDC by Location and Project Type Loans closed October 1, 2012 through February 29, 2016

	New	Acquisition/Rehab/	Owner-Occupied
Location	Construction	Resale	Rehab
Rural Greater MN	\$148,286	\$136,624	\$13,941
Greater MN Large City	\$151,801	\$155,003	\$20,400
Minneapolis/Saint Paul	\$305,057	\$211,609	\$15,933
Suburban Twin Cities	\$253,618	\$228,528	\$6,190
Total	\$223,253	\$192,588	\$14,419

These costs are consistent with industry standards. Table 6 shows the RSMeans industry-wide costs for new construction (excluding acquisition and some soft costs) in Minneapolis/Saint Paul for different sized homes and designs. Our costs are in line with these benchmarks.

- The industry-wide construction costs for a 1,400 square-foot 1½ story home with an unfinished basement and average class design is \$209,807, which is in the middle of the cost range shown in the Table 6.
- Assuming that construction costs account for 70 percent of the TDC and that acquisition and additional soft costs account for the remaining 30 percent, the TDC would be \$299,724.
- The \$305,057 median TDC for new construction financed by Minnesota Housing in Minneapolis/ Saint Paul (see Table 5) is consistent with the RSMeans costs. It is just 1.7% higher.

Table 6: RSMeans Estimated Construction Costs, 2016 (Excluding Acquisition and Some Soft Costs) In Minneapolis/Saint Paul, Average Class, Wood Siding

	1,000 Sqft	1,400 Sqft	1,600 Sqft	2,000 Sqft
One Story				
No basement	\$150,475	\$182,430	\$198,865	\$233,985
With unfinished basement	\$165,795	\$200,993	\$219,188	\$257,718
With finished basement	\$191,199	\$234,765	\$257,161	\$304,292
1 ½ Story				
No basement	\$154,876	\$195,222	\$208,224	\$241,339
With unfinished basement	\$166,408	\$209,807	\$223,734	\$259,278
With finished basement	\$184,960	\$234,765	\$251,634	\$293,261
Two Story				
No basement	\$162,063	\$190,542	\$209,256	\$240,559
With unfinished basement	\$172,090	\$202,865	\$223,110	\$256,158
With finished basement	\$187,355	\$224,392	\$247,267	\$285,796

Source: RSMeans, Residential Cost Data, 2016

Strategies for Containing and Reducing Single-Family Costs

Until last year, we have relied solely on the professional expertise and judgement of our staff to assess the cost reasonableness of single-family projects. We are now becoming more systematic and objective in that assessment. Table 7 shows the range of costs per home that we have financed for new construction over the last three and one-half years. The benchmark for the 80^{th} percentile is our threshold for flagging developments with a high cost per home. For example, if a new construction project in Minneapolis/Saint Paul proposes a TDC per home that exceeds \$325,785, it will be flagged for additional scrutiny by staff. This is similar to using the threshold of 25 percent above the predictive model for multifamily projects.

As we collect better single-family cost data over a longer period of time, we will start reporting trend data and potentially develop a predictive cost model. This will allow us to create an accurate and formal process for reporting cost outliers to the Board when making selection and funding recommendations. While the current threshold of the 80th percentile has proven valuable for an initial discussion, it has deficiencies. It does not account for cost difference resulting from home sizes, garages, number of bathrooms, and other factors.

Table 7: Impact Fund – TDC Benchmarks for New Construction, by Location

	TDC		
Rural Greater MN			
Mean	\$154,659		
Median	\$148,286		
20 th percentile	\$128,387		
80 th percentile	\$181,240		
Greater MN Large City			
Mean	\$160,205		
Median	\$151,801		
20 th percentile	\$144,977		
80 th percentile	\$176,987		
Minneapolis/Saint Paul			
Mean	\$302,300		
Median	\$305,057		
20 th percentile	\$278,692		
80 th percentile	\$325,785		
Suburban Twin Cities			
Mean	\$251,755		
Median	\$253,618		
20 th percentile	\$236,957		
80 th percentile	\$281,437		
Total			
Mean	\$230,295		
Median	\$223,253		
20 th percentile	\$148,257		
80 th percentile	\$312,833		

CONCLUSION

Over the last decade, we have successfully contained development costs while adding new policy initiatives that tend to increase costs. However, given the growing need for affordable housing, limited resources, and the increasing pressure to do more with less, cost containment remains a critical issue. As this report highlights, there is no magic bullet. Rather, we must pursue multiple efforts to address the dozens of inefficiencies in the affordable housing development process. Minnesota Housing cannot do it alone. It will take an industry-wide partnership.