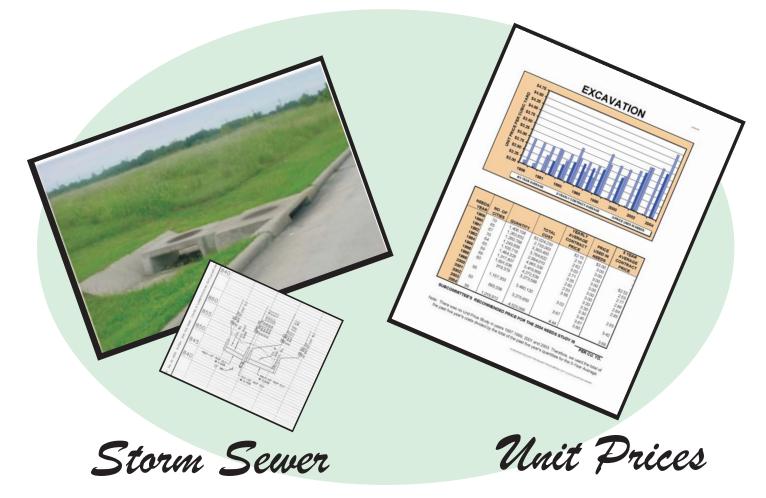
# 2004 MUNICIPAL SCREENING BOARD DATA



# **JUNE, 2004**



# Memo

State Aid for Local Transportation 395 John Ireland Boulevard Mail Stop 500 St. Paul, MN 55155-1899

Office Tel.: 651 296-3011 Fax: 651 282-2727

Date: May 4, 2004

To: Municipal Engineers City Clerks

From: R. Marshall Johnston

Subject: 2004 Municipal Screening Board Data booklet

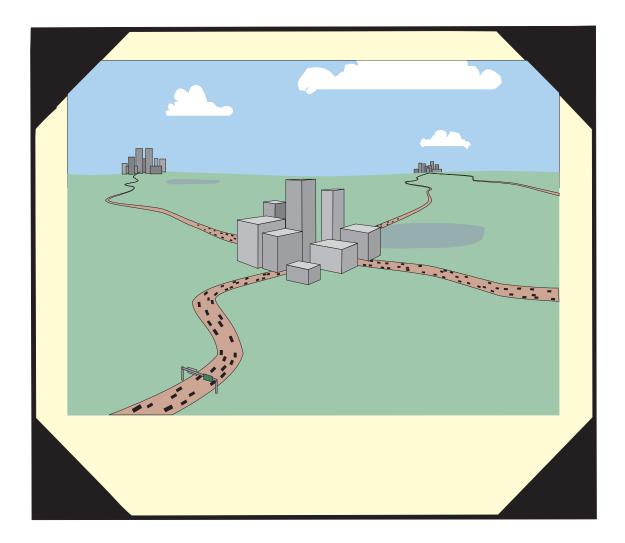
Enclosed is a copy of the June 2004 Municipal Screening Board Data booklet.

The data included in this report will be used by the Municipal Board at its June 1st and 2nd, 2004 meeting to establish unit prices for the 2004 Needs Study that is used to compute the 2005 apportionment. The Board will also review other recommendations of the Needs Study Subcommittee as outlined in their minutes. The Needs Study Subcommittee minutes are found on pages 17 and 18.

Should you have any suggestions or recommendations regarding the data in this publication, please refer them to your District Screening Board Representative or call me at (651) 296-6677.

This report is distributed to all Municipal Engineers and when the municipality engages a consulting engineer, either a copy is also sent to the municipal clerk or a notice is emailed stating that it is available for either printing or viewing at <u>www.dot.state.mn.us/stateaid</u>.

This report is also available for either printing or viewing on the State Aid web site. Go to <u>www.dot.state.mn.us/stateaid</u> and follow the links to the report.



If you have a scenic picture or photo, new or historical that represents your city, that could be used for a future book cover, please send it to:

Mark Channer MSAS Needs Unit 395 John Ireland Blvd. MS 500 St. Paul, MN 55155 Phone: (651) 282-2657 Fax: (651) 282-2727 Mark.Channer@ dot.state.mn.us

Maybe you don't like some of the covers. Maybe you just want to show off your city. For any reason, if you would like to see something different on the cover of your MSAS books, we would appreciate your ideas!

Thank you to those that have already contributed!

# 2004 MUNICIPAL SCREENING BOARD

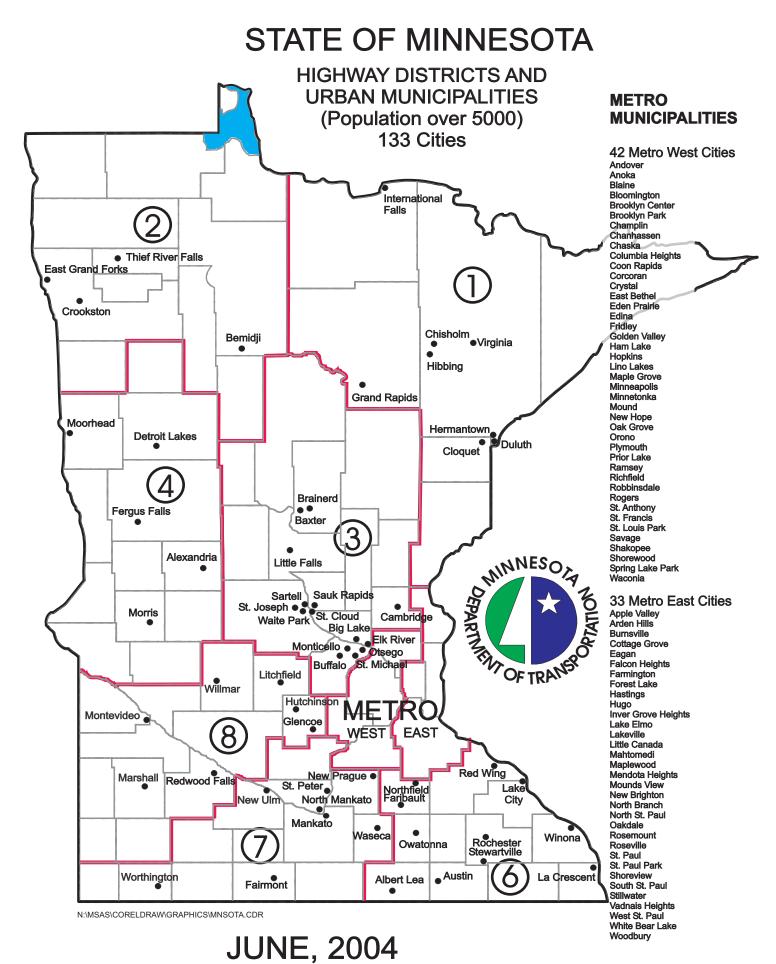
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# 2004 MUNICIPAL SCREENING BOARD

screening board stuff\Screening Board June 2004.xls			20-Apr-04
	OF	FICERS	
Chair	Mike Metso	Duluth	(218) 723-3278
Vice Chair	Maria Hagen	St. Louis Park	(952) 924-2687
Secretary	Stephen Gaetz	St. Cloud	(320) 255-7241

	MEMBERS				
District	Served	Representative			
1	3	John Suihkonen	Hibbing	(218) 262-3486	
2	2	Dave Kildahl	Crookston, T R Falls	(218) 281-6522	
3	2	Bret Weiss	Monticello	(763) 541-4800	
4	1	Jeff Kuhn	Morris	(320) 762-8149	
Metro-West	1	Craig Gray	Anoka	(763) 576-2781	
6	1	Jeff Johnson	Owatonna	(507) 444-4350	
7	3	Tim Loose	St. Peter	(507) 625-4171	
8	2	Dave Berryman	Montevideo	(320) 269-7695	
Metro-East	3	Chuck Ahl	Maplewood	(651) 770-4552	
(Three Cities		Mike Metso	Duluth	(218) 723-3278	
of the		Paul Ogren	Minneapolis	(612) 673-2456	
First Class)		Paul Kurtz	Saint Paul	(651) 266-6203	

	ALTERNATES			
District				
1	Tom Pagel	Grand Rapids	(218) 326-7625	
2	Brian Freeburg	Bemidji	(218) 759-3576	
3	Terry Maurer	Elk River	(651) 644-4389	
4	Robert Zimmerman	Moorhead	(218) 299-5390	
Metro-West	Sue McDermott	Prior Lake	(952) 447-4230	
6	Vacant			
7	Fred Salisbury	Waseca	(507) 835-9700	
8	Glen Olson	Marshall	(507) 537-6774	
Metro-East	Deb Bloom	Roseville	(651) 490-2200	

20-Apr-04

#### 2004 SUBCOMMITTEES

The Screening Board Chair appoints one city Engineer, who has served on the Screening Board, to serve a three year term on the Needs Study Subcommittee.

The past Chair of the Screening Board is appointed to serve a three year term on the Unencumbered Construction Fund Subcommittee.

NEEDS STUDY SUBCOMMITTEE	UNENCUMBERED CONSTRUCTION FUNDS SUBCOMMITTEE
Steve Koehler, Chair	David Jessup, Chair
New Ulm	Woodbury
(507) 359-8245	(651) 714-3593
Expires in 2004	Expires in 2004
Melvin Odens	Thomas Drake
Willmar	Faribault
(320) 235-4202	(507) 334-2222
Expires in 2005	Expires in 2005
Shelly Pederson	Lee Gustafson
Bloomington	Minnetonka
(952) 563-4870	(952) 939-8200
Expires in 2006	Expires in 2006

miscellaneous/subcommittees 2004.xls

#### 2003 MUNICIPAL SCREENING BOARD Fall Meeting Minutes October 21 & 22, 2003

I. Opening by Municipal Screening Board Chair Lee Gustafson.

The 2003 Fall Municipal Screening Board Meeting was called to order at 1:05 p.m. on October 21, 2003.

A. Chair Gustafson introduced:

Himself – Lee Gustafson, Minnetonka - Chair, Municipal Screening Board
Mike Metso, Duluth - Vice Chair, Municipal Screening Board
Julie Skallman, Mn/DOT- Director, State Aid for Local Transportation Division
Marshall Johnston, Mn/DOT- Manager, Municipal State Aid Needs Unit
Ken Ashfeld, Maple Grove - Chair, Unencumbered Construction Funds Subcommittee
and Past Chair, Municipal Screening Board
Tim Schoonhoven, Alexandria – Chair, Needs Study Subcommittee
David Jessup, Woodbury - Past Chair, Municipal Screening Board
Tom Drake, Red Wing – Past Chair, Municipal Screening Board
Maria Hagen, St. Louis Park - Secretary, Municipal Screening Board

The Secretary conducted the roll call of members. All were present as follows:

District 1	John Suihkonen
District 2	Dave Kildahl
District 3	Bret Weiss
District 4, Alt.	Jeff Kuhn
Metro-West	Shelly Pederson
District 6	Tim Murray
District 7	Tim Loose
District 8	Dave Berryman
Metro-East	Chuck Ahl
Duluth	Mike Metso
Minneapolis	Paul Ogren
St. Paul	Paul Kurtz

Hibbing Crookston, Thief River Falls Monticello Morris Bloomington Faribault St. Peter Montevideo Maplewood

The Chair recognized the following Screening Board Alternates:

Metro-West	Craig Gray	Anoka
District 8	Randy Peterson	Northfield

B. The Chair recognized the following Department of Transportation personnel:

Mark Gieseke	Program Delivery Engineer
Diane Gould	Manager, County State Aid Needs
Lou Tasa	District 2 State Aid Engineer
Merle Earley	District 4 State Aid Engineer
Steve Kirsch	District 6 State Aid Engineer
Doug Haeder	District 7 State Aid Engineer
Tom Behm	District 8 State Aid Engineer
Mark Channer	Asst. Manager, MSAS Needs Unit
Dan Erickson	Metro State Aid Division

C. The Chair also recognized the following others in attendance:

Jim Vanderhoof	St. Paul
Klara Fabry	Minneapolis
Heidi Hamilton	Minneapolis
Larry Veek	Minneapolis
Dave Sonnenberg	SEH, Inc.

Bob Brown, Metro District State Aid Engineer, and Rick Kjonaas, Deputy State Aid Engineer, attended the Wednesday morning meeting.

II. 2003 Municipal State Aids Needs Report

The Chair suggested that the entire report be reviewed and discussed on Tuesday, and any action required be taken on Wednesday morning. This would give all members a chance to informally discuss the various items Tuesday evening.

A. The June 2003 Screening Board Minutes were presented for approval (Pages 16-25).

Motion by Weiss / seconded by Ogren that the minutes be approved. Motion carried without opposition.

Johnston began his review of the 2003 Municipal State Aid Needs Report with a comment regarding the preface which requires the Screening Board to recommend the annual construction needs to the Commissioner of Transportation.

Johnston noted that there are currently 134 cities eligible for Municipal State Aid apportionment. This total includes three new cities that were recently added - St. Joseph, New Prague and Rogers.

B. 2002 Screening Board and Subcommittee Members (Pages 12-13).

Johnston reviewed the current membership on the Screening Board and the subcommittees.

C. Review of Unencumbered Construction Funds Subcommittee Matters (Pages 26-38).

Johnston reviewed matters addressed by the Unencumbered Construction Funds Subcommittee (UCFS) at their August 2003 meeting, noting that Ken Ashfeld, UCFS Chair, was available for any explanation of their recommendations. The UCFS reviewed several different positive adjustments, and are recommending the following two revisions to current adjustments:

1. Revision to the Unencumbered Construction Account Needs Adjustment: Johnston stated that this change was recommended because, currently, a city with a general fund advance receives no adjustment. A city with an account balance receives a negative adjustment for that amount, but a city with an advance does not receive a positive adjustment for the amount advanced. This change would allow a positive adjustment for general fund advances, similar to bonding. Weiss commented that he felt this should have been a part of the program since the advance option was implemented and feels that District 3 is in favor of approving this adjustment. Ahl commented that Metro Division discussed this last week and is generally in favor although the reaction was mixed. He also feels that this is important to encourage advancing; put the money where it's going to be used. Gustafson asked Johnston if this would be a difficult change to implement in the system. Johnston said that it wouldn't. Suihkonen stated that District 1 was not in favor of this adjustment because it negatively impacted even those cities that are living within their apportionment. Berryman stated that District 8 was in favor but that there was vocal opposition. Murray, District 6, said that they had unanimous support. Kuhn, District 4, stated that they had more in support than against it. Loose, District 7, said that there was general approval for the adjustment although a concern was raised that some cities have "difficult" councils and therefore shouldn't be penalized, but that this might be an opportunity to have a discussion with your Council.

Gustafson summarized the discussion stating that there appeared to be general consensus in favor of the adjustment and noted that this item would come before the group for a vote tomorrow. Ashfeld commented that advancing funds is similar to bonding with 0% interest, therefore, this is another "tool in the toolbox" available to cities for funding options. Schoonhoven stated that saving up for a project was often used by small cities as an argument. Weiss suggested revisiting the general fund advancement amount, i.e. 4 or 5 times a cities apportionment. Gustafson asked Weiss to prepare draft wording for consideration at tomorrow's meeting.

2. Low Balance Incentive:

Johnston noted that this incentive was graphically represented on page 31. He also noted a correction on the graphic that should show \$26M being distributed "out". This recommendation is a revision to the new Excess Balance adjustment going into effect for the 2004 allocation. Under this recommended modification, cities with high balances (greater than 3x their annual apportionment) would be redistributed to cities with low balances (less than 1x their annual apportionment).

Sonnenberg questioned whether adjustments could still be made by cities that will affect these amounts. Johnston responded that payment requests received by the DSAE by December 1 would be deducted from the year end balance, but requests received between December 1 and December 31 could not be guaranteed to be deducted from the year end balance. Also, that the balances as of 12/31 would be used to determine the final amounts to be reapportioned.

Weiss stated that District 3 was generally in favor but questioned why the adjustment was for the full amount-feels this is too harsh. Berryman agreed stating that they had been split over this but that if the adjustment was made it should only be for the amount greater than 3x the apportionment. Murray said that District 6 was unanimously in favor of this but felt that there should be an opportunity to plead a case in special circumstances. Suihkonen and Kuhn reported that their districts were in favor of the adjustment. Kildahl stated that District 2 was in favor of the adjustment but additional discussion was warranted.

Ahl said that the question on the table was how the redistribution should be calculated not whether or not it should be done. Ogren questioned what the thought process was on determining how to redistribute the dollars to those cities with a balance of less than 1. Ashfeld responded that the committee felt that it should be given to those cities that are in a position to spend it. Johnston reviewed an example of how this adjustment would affect the city of Brainerd. Page 36 shows the estimated adjustment to each city if both of these measures were implemented and the two handouts show the estimated effects of each adjustment individually.

D. Review Minutes and Recommendations of the Needs Study Subcommittee (Pages 39-40).

Johnston stated that two items were discussed by the Subcommittee at their Sept. 2003 meeting, noting that Tim Schoonhoven, NSS Chair, was available for any explanation of their recommendations.

#### 1. Storm Sewer Needs:

Johnston said that currently, if storm sewer is in place, a city can only generate needs for partial storm sewer. Complete storm sewer needs are allowed by the DSAE on a case-by-case basis due to age, condition, capacity, etc. The subcommittee recommended no change to the current procedure. Schoonhoven stated that many options are available but that the committee felt that the current system is workable with discretion given to the DSAE.

Ahl said that Metro had discussed this and would prefer a uniform standard across the state where a life cycle is established but still retains DSAE discretion.

Suihkonen said that Dist. 1 felt there was no need for change; things are probably more uniform than people think. Metso said that he felt the standard shouldn't be based on life cycle alone. Behm stated that he questions capacity, age, & condition before making a decision.

2. Widening Needs:

Johnston explained the current practice for establishment of widening needs: 0-10 years: no widening needs; 10-20 years: with DSAE approval; > 20 years: full needs. There have been cases where traffic or other situations have changed such that certain roadway segments have met the requirements for Widening Needs prior to reaching their useful life. Ashfeld questioned whether needs would still be generated if a variance was issued for a particular segment. Johnston responded that variances are not tracked in the system, so it is likely needs would be generated. The recommendation from the subcommittee is to revise the language slightly to clarify intent.

General discussion took place on the merits of the language revisions. Gustafson stated that action on this item would take place at tomorrow's meeting.

E. Theoretical Population Apportionment (Pages 41-49).

Johnston reviewed the information provided on Page 41, noting that Dayton was "on the bubble" with a population of just around 4,700. A determination will be made by the Attorney General's office of their 2000 adjusted census figures. Depending on the results of this decision, Dayton's pending allocation (which was computed and set aside until the dispute was resolved) will either be given to them or redistributed. Johnston also noted that the population apportionment is estimated at \$16.08 per person. Overall, there was an increase in population of over 50,000 between 2003 & 2004.

F. Effects of the 2003 Needs Study Update (Pages 50-53).

Johnston reviewed the effects of the 2003 Needs Study update, noting that the unadjusted needs increased by \$145M or 5.44%. Total needs are \$2.8B.

G. Mileage, Needs and Apportionment (Pages 54-56).

Johnston reviewed this section of the Needs Report, noting that the needs apportionment for 2004 is estimated at \$19.32 per \$1,000 of needs. This is the lowest apportionment since 1961.

H. 2003 Itemized Tabulation of Needs (Pages 57 & Pocket).

Johnston provided a brief overview of the Tabulation of Needs, noting that Crookston had the highest needs cost per mile (\$1,634,010), and Lake Elmo had the lowest needs cost per mile (\$414,299). Overall, 5 cities exceed \$1.2M per mile and 5 cities have an average cost per mile less than \$500,000.

I. Comparison of Needs (Page 61).

Johnston reviewed the comparison of needs between 2002 and 2003, noting that street lighting increased the most due to the change in the percentage of deficient segments.

J. Tentative 2004 Construction Needs Apportionment (Pages 62-69).

Johnston reviewed this section of the Needs Report, highlighting the various adjustments made.

K. Adjustments to the Construction Needs (Pages 73-88 & Handout).

Marshall Johnston reviewed Adjustments to 2003 Construction Needs, including the following areas:

- Unencumbered Construction Fund Balance Adjustment the balance of \$99M will likely decrease before the end of the year
- Excess Unencumbered Construction Fund Balance Adjustment (based on 8/31/03 balance the balance of \$26M will likely decrease before the end of the year).
- Bond Account Adjustment if Column D is 0, no adjustment.
- Unamortized Bond Account Adjustment Metso questioned Lakeville's off-system adjustment. Discussion took place regarding whether or not non-MSA system disbursements should be taken as a positive adjustment. Ahl felt that County State Aid system or Trunk Highway system should still be considered "on system"; he feels the column heading is incorrect. General consensus was that the State Aid system means MSA, CSAH, or Trunk Highways. Gustafson stated that this can be clarified with minor wording adjustments to the resolution or it can be referred to the UCFS for discussion. Metso felt that the existing wording in the resolution is adequate but it could be enhanced.
- Non-Existing Bridge Adjustment. noting that Woodbury has one additional bridge; Johnston will review an after-the-fact adjustment due to wide fluctuations in cost.
- ROW Adjustment noting that this is an after-the-fact adjustment of \$72.5M and represents the largest adjustment to the needs.
- Individual Adjustments Robbinsdale, Maple Grove, & Brainerd
- TH Turnback Maintenance (22.3 miles eligible).
- L. Construction Needs Recommendations to the Commissioner (Pages 89-91).

Johnston noted that Page 89 contained a copy of the recommendation letter to be signed tomorrow by the Board members and sent to the Commissioner of Transportation with minor adjustments.

M. Theoretical Total Apportionment, Comparison, and Apportionment Rankings (Pages 92-101).

Johnston reviewed this section of the Needs Report, noting that the tentative total apportionment is \$109.0 million. Johnston noted that cities with the highest tentative apportionment per needs mile were very urban in nature (Minneapolis and St. Paul), and cities with the lowest tentative apportionment per needs mile were very rural in nature (Lake Elmo, Rogers, and Corcoran).

- N. Other Topics (Pages 105-123).
  - <u>Certified Complete MSAS systems</u> Johnston noted that four cities have certified their MSAS systems as complete and can spend the population portion of their apportionment on their local roads.
  - <u>General Fund Advance status and guidelines</u>
     Johnston summarized the limits for general fund advancement based on a city's annual construction allotment. He noted that the guidelines were revised in June to include wording specifying that advancement for federal projects must also be eligible for State Aid financing. Gustafson stated that revisions to these guidelines would be considered tomorrow.
  - Administrative Account

Johnston briefly reviewed the Administrative Account, noting that 1.5-% of the total funds available is set aside for administrative purposes. The unspent remainder each year is returned for redistribution.

Skallman commented on a desire for direction from the Board to increase the administrative account from 1.5-% to 2%. This action would require legislative approval. The Counties are considering a similar proposal and Skallman would prefer to take action on both at the same time. The additional funding would go towards special efforts such as training, special requests, etc. She is looking for examples. Pederson stated that it should be designated for something specific and something of benefit to all, i.e. technician certification classes. Murray said that the feedback he heard was that this seemed to be putting the cart before the horse - no one is opposed but they need to know what it will be used for first. Weiss stated that D3 was noncommittal. Skallman said that this request was in order to be able to respond to the requests she receives throughout the year for printing costs, special classes, etc. Recently, due to comments made by Cities and Counties, they were able to add a person to facilitate permitting. Shoonhoven stated that everyone would probably agree that training is needed, however, redistribution of a limited pot means money is being taken away from streets which are funded at the lowest level possible.

Gustafson felt that more input should be received from the group perhaps by discussing this at the CEAM Winter meeting. Further discussion took place. Motion by Ahl / seconded by Ogren that this item be referred to the CEAM Executive Board for further study. Motion passed without opposition.

Research Account

Johnston briefly reviewed the Research Account history, noting that  $\frac{1}{2}$  of 1% is historically set aside in this account, and that a motion will be required to set the amount for 2003.

<u>County Highway Turnback Policy</u>

Johnston commented that questions on the turnback policy should be referred to the DSAE as the policy is complex.

- <u>Screening Board Resolutions</u> Johnston noted that the current screening board resolutions are included in the rear of the book.
- III. Chair Gustafson called for any other subjects the representatives or audience would like presented. None were offered.
- IV. Chair Gustafson requested a motion for adjournment until Wednesday morning, at which time formal action would be taken on those items before the Board.

Motion by Weiss / seconded by Pederson that the meeting be adjourned until 8:30 a.m. on Wednesday. Motion passed without opposition.

#### Wednesday Morning Session

The Municipal Screening Board was reconvened by Chair Gustafson at 8:40 a.m. on October 22, 2003.

Gustafson reminded everyone that a joint meeting with the County Engineers Executive Committee was scheduled for 10:00 a.m.

- I. Formal Actions by the 2003 Municipal Screening Board
  - 1. Needs and Apportionment Data (Pages 41-101).

Motion by Ahl / seconded by Kildahl to approve the Needs and Apportionment Data as presented with minor adjustments to the final amounts. Motion carried without opposition.

The original of the letter to the Commissioner on page 89 was subsequently signed by all Screening Board members.

2. Research Account (Page 111).

Motion by Weiss / seconded by Pederson to approve the following resolution:

Be it resolved that an amount of \$544,962 (not to exceed  $\frac{1}{2}$  of 1% of the 2003 MSAS apportionment sum of 108,992,464) shall be set aside from the 2004 Apportionment fund and be credited to the Research Account.

Motion carried without opposition.

3. Revised Unencumbered Construction Fund Balance adjustment (Pages 28-30, 36-38, 40 and yellow handout).

Motion by Ahl / seconded by Murray to approve the following resolution:

That for the determination of Apportionment Needs, a city with a positive unencumbered construction fund balance as of December  $31^{st}$  of the current year shall have that amount deducted from its 25-year total Needs. A municipality with a negative unencumbered construction fund balance as of December  $31^{st}$  of the current year shall have that amount added to its 25-year total Needs.

Motion carried without opposition.

4. Low Balance Incentive (Pages 31-38, green and blue handout).

Motion by Pederson / seconded by Ahl to approve the following resolution:

That the amount of the Excess Unencumbered Construction Fund Balance Adjustment shall be redistributed to the Construction Needs of all municipalities whose December 31 construction fund balance is less than 1 times their January construction allotment of the same year. This redistribution will be based on a city's prorated share of its Unadjusted Construction Needs to the total Unadjusted Construction Needs of all participating cities times the total Excess Balance Adjustment.

Motion carried without opposition.

5. Revise Widening Resolution (Pages 39-40 and green handout).

Motion by Weiss / seconded by Metso to approve the following resolution:

That if the construction of a Municipal State Aid Street is accomplished, only the Construction Needs necessary to bring the segment up to State Aid Standards will be permitted in subsequent Needs after 10 years from the date of the letting or encumbrance of force account funds. For the purposes of the Needs Study, these shall be called Widening Needs. Widening Needs shall continue until reinstatement for complete Construction Needs is initiated by the Municipality.

Motion carried without opposition.

6. Storm Sewer Needs (Page 39).

Ahl opened the discussion by making a motion to refer this item back to the Needs Study Subcommittee for establishment of an appropriate life cycle that is consistent with other life cycles in place. This motion was seconded by Weiss.

Gustafson opened the floor for discussion. Kildahl commented that this may hinder the committee and would instead recommend sending it back to the committee without a specific task. Sonnenberg felt that the important issue was equity and consistency. Life cycle is not necessarily a means of determining effective life, but more for establishing that consistency. Metso questioned other life cycles in place. Johnston replied that only bridges are done in this way, on a 35-year cycle. Schoonhoven stated that we're really looking at a 40-year cycle -20 years with no needs and 20 years with needs. Discretion between partial and full needs seems to be the question. Doing away with partial needs simplifies the process and eliminates the discretion. This might be more equitable but less representative of the system. Drake questioned whether the computer software would need to be modified. Johnston said that it would, but they could wait and make several changes at once using a consultant. Murray stated that the percentage of storm sewer needs is underrepresenting what's being spent currently. If you receive full needs at 20 years, is this more in line with actual spending? Johnston suggested that Kjonaas or Skallman sit in on the discussion if this is referred back to the Needs subcommittee. Skallman stated that several DSAEs could attend as well and give their perspective on the issue. Metso agrees with subcommittee's recommendation to leave system as is, but feels that if we are going to do something, it should be done on a consistent basis. He described the example of base, which is eligible for full needs after 20 years, but his city

is not necessarily replacing it on that time frame. Reinstating full needs in line with the rest of the roadway provides consistency.

Gustafson called for a vote on the motion. Motion carried without opposition.

7. Bond Account Adjustment (Page 80 & 121).

Drake stated that the intent of the bond account was to reduce needs, if you spend dollars off of the system without reducing needs, you're not doing that. Skallman stated that the current language is consistent with the Board's previous action regarding advancements. Ahl commented that the demand on cities is coming from "off system". Gustafson said that this language is being considered merely to clarify the point to State Aid staff.

Motion by Ahl / seconded by Metso to include additional language in the resolution as follows:

Bond account money spent off the Municipal State Aid, CSAH or Trunk Highway System would not be eligible for Bond Account Adjustment. This action would not be retroactive, but would be in effect for the remaining term of the Bond issue.

Schoonhoven replied that he feels this is contrary to the system – you're generating needs that aren't a part of your MSA system. Per Kjonaas, prior to 1996, there was that exception and recommended additional wording in the final paragraph of the resolution. Metso stated that the confusion is coming form our definition of State Aid system. Gustafson said that this motion is confirming the method that Johnston has used since 1996. So, since 1996, cities have been getting a positive adjustment for spending their dollars off of the MSA system; before 1996, it was a negative adjustment. Metso questioned why a city would be penalized for spending dollars on the State Aid system? According to Skallman all of this needed to be tracked, and it was changed in the early 1990's. Murray felt that this is more of an offset, not a penalty; and feels that its good to have some discretion because sometimes it's the only funding source available. Metso felt that this was a larger issue related to negative adjustment for bonds and advancements. Murray clarified that he believes in being able to use dollars on the State Aid system, he just feels that it shouldn't receive a positive adjustment. Weiss recommended keeping it simple; if you get a positive adjustment for the bonds, you get it for advancements.

Motion carried with Murray in opposition.

8. MSAS General Fund Advances modifications (Pages 108-109).

Motion by Pederson / seconded by Loose to approve the following guidelines wording modifications (amended by Weiss):

The October 2002 Screening Board discussed the possibility of revising the limits that a smaller city may advance, revising the payback period for larger cities, and allowing General Fund Advances on Federal projects. It was explained that any changes were ultimately an administrative decision by the State Aid Engineer with any input and discussion by the Screening Board being taken into consideration. The Screening Board recommended that the limits a smaller city can advance be raised to \$1,000,000, allowing allows all cities up to 3 5 years to pay back the advance, and to allow advances on Federal projects. After discussing it with State Aid Finance, the following revisions will go into effect for advances from the 2003 2004 allocation:

Cities with a construction allotment of \$1,000,000 or less can now advance up to three a cumulative maximum of five times its previous year's construction allotment or \$1,000,000 \$4,000,000, whichever is less when advancing for Municipal State Aid projects. (Fig. I 5-892.563 in the State Aid manual).

Cities with a construction allotment of more than \$1,000,000 can now advance up to its previous year's construction allotment up to a maximum of \$3,000,000, when advancing for Municipal State Aid projects. (Fig. 15-892.563 in the State Aid manual).

Gustafson commented that this wording change was in response to concerns expressed by small cities and cities with an apportionment of about \$900,000 that the current system was not adequate. This motion appears to address these issues.

Kildahl questioned whether the language should also be amended to apply to all of the State Aid system or the Municipal State Aid system as written, per the previous discussion. Weiss supports amending the language to make it apply to the entire State Aid system. Schoonhoven feels that the point at hand is the amount of advancement but that the issue of whether or not this should be clarified/amended to include non-MSA projects should be brought before the districts for further discussion. Skallman said that the dollars can be allocated to your regular MSA account or your advancement account at a city's discretion. Ashfeld commented that the state and county make the argument that cities should participate in the regional system due to local users. If a city couldn't use the regional system, they would need to construct a parallel route to accommodate them. You would have a need to build that – therefore, the regional system is a "need" in your community. Drake said that we're just dividing up the 9% in a different way – the MSA system is growing every year. Gustafson stated that the objective is to lower the overall account balance.

Gustafson called for a vote on the motion. Motion carried without opposition.

#### II. Legislative Update

Gustafson described the Transportation Utility bill and the latest information on this effort by the League of Minnesota Cities and CEAM. The intent is to provide legislators and cities with the same message over and over again. This will be done using several promotional pieces which will be developed by a consultant. All of these materials will be sent to City Engineers so that they can make individual contacts with their legislators and/or inform their Councils. One-on-one meetings are also planned with each of the Transportation Committee members.

- III. Comments by Julie Skallman and other Mn/DOT personnelJulie Skallman had nothing to report at this time.
- IV. Chair Gustafson thanked Schoonhoven, Chair of the Needs Study Subcommittee, and Ken Ashfeld, Chair of the Unencumbered Construction Funds Subcommittee.
- V. Chair Gustafson thanked the past Chairs for their time and appearance at the meeting Tom Drake, Ken Ashfeld and David Jessup.
- VI. Chair Gustafson commented that this was the last meeting for representatives from Districts 4, 6, and Metro-West. He thanked them for their service.
- VII. Chair Gustafson noted that the date and location of the 2004 Spring Screening Board meeting has been tentatively set for June 1 & 2, 2004 at Cragun's.
- VIII. Chair Gustafson requested a motion for adjournment.

Motion by Berryman / seconded by Pederson to adjourn. Motion carried without opposition.

Respectfully submitted,

Maria C. Hager

Maria A Hagen, P.E. MSA Screening Board Secretary City Engineer – St. Louis Park

# **Needs Study Subcommittee Meeting Minutes 4/13/04**

The Needs Study Subcommittee (NSS) held a meeting on April 13, 2003 at the City Hall in Hutchinson: Members present were Chairman Steve Koehler- New Ulm; Melvin Odens Willmar; and Shelly Pederson-Bloomington- Also attending were Marshall Johnston; Rick Kjonaas; and Mark Channer of State Aid. The purpose of the meeting was to review the Unit Price Study, make recommendations and to review Storm Sewer Needs (life-cycle). Chairman Steve Koehler called the meeting to order at 10:20 P.M.

Marshall began the discussion with a brief introduction and history on the unit price study. Mark then went on to explain how the information is gathered, which projects are chosen and how the data is computed. The group then reviewed and discussed the methods of computing unit prices and the importance of the study.

The subcommittee's recommended unit prices to be used in the 2005 needs computation are shown on the attached summary sheet. Several unit price items were increased by a factor of  $3\% +/_$ , some unit prices were left as is based on the unit price study average or the 5-year average and some were raised more due to the projected increased fuel costs.

The NSS discussed the additional item of Storm Sewer Needs (life-cycle) referred to it by the Municipal Screening Board at the Fall 2003 meeting.

# The following excerpt is taken form the second day of the October 2003 Municipal Screening Board meeting:

Motion from fall 2003: Ahl opened the discussion by making a motion to refer this item back to the Needs Study Subcommittee for establishment of an appropriate life cycle that is consistent with other life cycles in place. Weiss seconded this motion.

Discussion from fall 2003:

Gustafson opened the floor for discussion. Kildahl commented that this may hinder the committee and would instead recommend sending it back to the committee without a specific task. Sonnenberg felt that the important issue was equity and consistency. Life cycle is not necessarily a means of determining effective life, but more for establishing that consistency. Metso questioned other life cycles in place. Johnston replied that only bridges are done in this way, on a 35-year cycle. Schoonhoven stated that we're really looking at a 40-year cycle -20 years with no needs and 20 years with needs. Discretion between partial and full needs seems to be the question. Doing away with partial needs simplifies the process and eliminates the discretion. This might be more equitable but less representative of the system. Drake questioned whether the computer software would need to be modified. Johnston said that it would, but they could wait and make several changes at once using a Murray stated that the percentage of storm sewer needs is consultant. underrepresenting what's being spent currently. If you receive full needs at 20 years, is this more in line with actual spending? Johnston suggested that Kjonaas or Skallman sit in on the discussion if this is referred back to the Needs subcommittee. Skallman stated that several DSAEs could attend as well and give their perspective on

the issue. Metso agrees with subcommittee's recommendation to leave system as is, but feels that if we are going to do something, it should be done on a consistent basis. He described the example of base, which is eligible for full needs after 20 years, but his city is not necessarily replacing it on that time frame. Reinstating full needs in line with the rest of the roadway provides consistency.

Gustafson called for a vote on the motion. Motion carried without opposition.

The NSS discussed the following possible life-cycles while still allowing DSAE discretion for special cases:

- Generate complete storm sewer Needs after 20 years, similar to other roadway Needs items
- Generate partial or complete Needs at a predetermined number of years, 20, 40 on a deficient segment
- Generate complete storm sewer Needs on a different time frame then other Needs items
- After the Fact storm sewer Needs
- Leave the storm sewer Needs as is

The committee also discussed the items brought up in the excerpt above and data from a questionnaire "Criteria used by DSAE's to approve complete storm sewer needs where there is existing storm sewer".

The DSAE's are using a Report 7, with submitted justification that complete Needs are warranted, to approve complete storm sewer Needs. This may be due to the system being undersized, or worn out or other special condition.

From the past screening board discussions it seemed that equity and consistency are the most important factors.

Many of these options are complex to implement for either MNDOT or the City Engineers. The NSS feels that it is best to keep it simpler and that the DSAE's are doing a fair job.

It was the consensus of the NSS that none of the life cycle scenarios discussed provided an improved system of generating Needs and for that reason the NSS stands behind the previous recommendation that the Storm Needs calculations remain as they presently are. If so directed by the Screening Board, the NSS will further evaluate this matter.

The present policy is to allow only partial Storm Sewer Needs on roadways with inplace storm sewer, unless the city can justify to the satisfaction of the DSAE that complete Storm Sewer Needs are justified.

Meeting adjourned at 2:05 PM.

Shelly A. Pederson Secretary of Need Study Subcommittee

#### 2004 UNIT PRICE RECOMMENDATIONS USING 2003 UNIT PRICES

n:msas/excel/2004/June 2004 Book/unit price recommendations.xls				22-Apr-04
				-
		0000	Subcommittee	Board
		2003	Subcommittee	Recommended
		Need	Suggested Prices	
Needs Item		Prices	for 2004	For 2004
Grading (Excavation)	Cu. Yd.	\$3.80	\$4.00	
Aggregate Shoulders #2221	Ton	13.40	13.40	
Curb and Gutter Removal	Lin.Ft.	2.60	2.60	
Sidewalk Removal	Sq. Yd.	5.50	5.50	
Concrete Pavement Removal	Sq. 10. Sq. Yd.	5.40	5.40	
Tree Removal	Unit	225.00	235.00	
Thee Removal	Unit _	225.00	235.00	
Class 5 Base #2211	Ton	7.30	7.65	
Bituminous Base #2350	Ton	31.00	33.00	
Gravel Surface #2118	Ton	5.35	5.67	
Bituminous Surface #2350	Ton	31.00	33.00	
Curb and Gutter Construction	Lin.Ft.	8.00	8.25	
Sidewalk Construction	Sq. Yd.	23.50	24.00	
Storm Sewer Adjustment	Mile	82,700	83,775	
Storm Sewer	Mile			
		257,375	262,780	
Special Drainage - Rural	Mile	37,400	40,000	
Street Lighting	Mile _	80,000	80,000	
Traffic Signals	Per Sig	124,000	124,000	
Signal Needs Based On Proje				
		e = Needs Per Mi		
0 - 4,999 .25	\$124,00		\$31,000	
5,000 - 9,999 .50	124,00		62,000	
10,000 & Over 1.00	124,00		124,000	
Right of Way (Needs Only)	Acre	93,000	93,000	
Engineering	Percent	20	20	
Railroad Grade Crossing				
Signs	Unit	1,000	1,000	
Pavement Marking	Unit	750	750	
Signals (Single Track-Low Spee		120,000	150,000	
Signals & Gate (Multiple	_	0,000	,	
Track - High & Low Speed)	Unit	160,000	187,500	
Concrete Xing Material(Per Trad		1,000	1,000	
	_			
Bridges		70.00	74.00	
0 to 149 Ft.	Sq. Ft.	70.00	74.00	
150 to 499 Ft.	Sq. Ft.	70.00	74.00	
500 Ft. and over	Sq. Ft	70.00	74.00	
Railroad Bridges				
<u>over Highways</u>				
Number of Tracks - 1	Lin.Ft.	9,300	9,600	
		-,		

## ANNUAL MAINTENANCE NEEDS COST

The prices below are used to compute the maintenance needs on each segment. Each street, based on its existing data, receives a maintenance need. This amount is added to the segment's street needs. The total statewide maintenance needs based on these costs in 2003 was \$23,270,288 or 0.82% of the total Needs. For example, An urban road segment with 2 traffic lanes, 2 parking lanes, over 1,000 traffic, storm sewer and one traffic signal would receive \$9000 in maintenance needs per mile.

#### **EXISTING FACILITIES ONLY**

	2003 NEEDS PRICES		SUBCOMMITTEE SUGGESTED PRICES		SCREENING BOARD RECOMMENDED PRICES	
	Under 1000 ADT	Over 1000 ADT	Under 1000 ADT	Over 1000 ADT	Under 1000 ADT	Over 1000 ADT
Traffic Lane Per Mile	\$1,500	\$2,500	\$1,550	\$2,575		
Parking Lane Per Mile	1,500	1,500	1,550	1,550		
Median Strip Per Mile	500	980	515	1,000		
Storm Sewer Per Mile	500	500	515	515		
Per Traffic Signal	500	500	515	515		
Normal M.S.A.S. Streets Minimum Allowance Per Mile	5,000	5,000	5,150	5,150		

"Parking Lane Per Mile" shall never exceed two lanes, and is obtained from the following formula:

(Existing surface width minus (the # of traffic lanes x 12)) / 8 = # of parking lanes.

Existing # of Traffic lanes	Existing Surface Width	# of Parking Lanes for Maintenance Computations
2 Lanes	less than 32' 32' - 39' 40' & over	0 1 2
4 Lanes	less than 56' 56' - 63' 64' & over	0 1 2

n:/msas/excel/2004/JUNE 2004 book/Maintenance Needs Cost.xls

A HISTORY OF THE ANNUAL MAINTENANCE NEEDS COSTS

22-Apr-04 1,000 2,000 4,000 \$1,000 4,000 4,000 4,000 4,400 4,400 4,400 4,400 4,400 4,500 4,600 4,800 4,800 5,000 1000 ADT Over Maintenance Allowance Minimum **Per Mile** 1,000 4,400 4,400 4,400 4,500 4,600 4,800 1000 ADT 4,000 4,000 4,400 4,400 4,800 5,000 \$1,000 2,000 4,000 4,000 Under \$100 100 400 400 400 400 400 440 440 440 440 440 450 460 480 1000 ADT 480 500 Over **Traffic Signal** Per 400 400 4400 440 440 440 440 440 450 460 1000 ADT 100 400 480 \$100 480 500 Under 100 200 400 400 400 400 440 440 440 440 440 450 460 480 1000 ADT \$100 480 000 Over Storm Sewer Per Mile 1000 ADT 200 400 400 400 400 440 440 440 440 440 450 460 480 \$100 100 500 480 Under 800 800 880 880 880 880 400 800 880 880 900 910 950 950 1000 ADT \$200 200 980 Over **Median Strip** Per Mile 1000 ADT 100 \$100 200 400 400 400 400 440 440 440 440 440 450 460 480 480 500 Under ,320 ,320 ,320 100 200 ,200 ,200 ,200 ,200 ,320 ,320 ,360 ,400 ,450 ,450 ,500 \$100 1000 ADT Over Parking Lane Per Mile 1000 ADT \$100 100 200 ,200 ,200 ,200 ,200 ,320 ,320 ,320 ,320 ,320 ,360 ,400 1,450 1,450 1,500 Under 2,200 2,200 2,200 2,400 1000 ADT ,000 2,000 2,000 2,000 2,000 2,200 2,200 2,260 2,300 2,400 \$500 500 2,500 Over **Fraffic Lane Per Mile** 1000 ADT 300 600 ,200 ,200 ,200 ,200 ,320 ,320 ,320 ,320 ,320 ,360 \$300 ,400 ,450 ,450 ,500 Under 1999 1990 1993 1994 1995 1996 1998 2000 Year 1986 1987 1988 1989 1991 1992 2001 2002 2003 2004 21

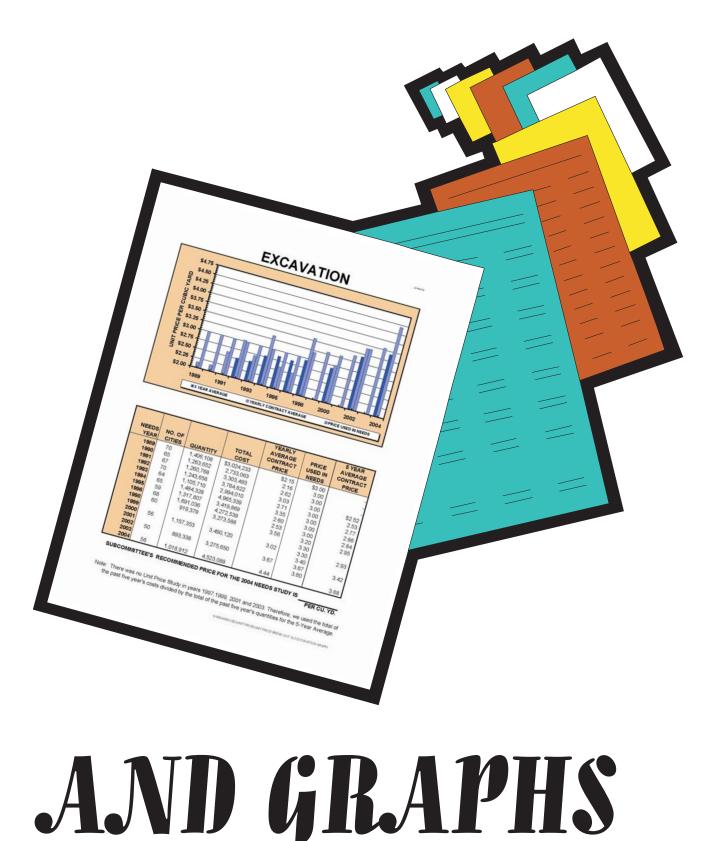
THESE MAINTENANCE COSTS ARE USED IN COMPUTING NEEDS.

ALL MAINTENANCE COSTS FOR COMMON BOUNDARY DESIGNATIONS AND APPROVED ONE WAY STREETS ARE COMPUTED USING THE LENGTH REPORTED IN THE NEEDS STUDY.

n:/msas/excel/2004/JUNE 2004 book/Maintenance Cost History.xls

(COMPUTED ON EXISTING MILEAGE ONLY)

# UNIT PRICES





23

## **UNIT PRICE STUDY**

The unit price study was done annually until 1997. In 1996, the Municipal Screening Board made a motion not to conduct the unit price study in 1997. There were no changes in the unit prices in 1997. The Screening Board made a motion not to do the unit price study in 1999 but to apply a construction cost index against the 1998 prices. In order to adjust the prices in 1999 due to increases, the Needs Unit arrived at a cost index based on 9 items used in the needs for the past 10 unit price studies.

The quantities and unit prices used in this unit price study are compiled from the on system MSAS projects that were let and a 'State Aid Payment Request' form was received by the State Aid Division in 2003. There were a minimum of 141 on system projects and 58 off system projects let in 2003 for which we received a Payment Request. The state average of the on system prices and quantities are used by the Needs Study Subcommittee and the Municipal Screening Board to determine the prices to be used in the 2004 needs study. These prices will be applied against the quantity tables located in the State Aid Manual Figs. C & D 5-892.820 to compute the 2005 construction (money) needs apportionment.

Both MN/DOT and State Aid bridges are used so that more bridges determine the unit price. In addition to normal bridge materials and construction costs, prorated mobilization, bridge removal and riprap costs are included if these items are included in the contract. Traffic control, field office, and field lab costs are not included.

MN/DOT **■** hydraulic office furnished a recommendation of costs for storm sewer construction and adjustment based on 2003 construction costs. Special drainage costs are computed for rural roadways by the MN/DOT estimating unit based on the length and number of culverts per mile detailed by the Screening Board.

MN/DOT railroad office furnished a letter detailing railroad costs from 2003 construction projects.

Due to lack of data, a study is not done for traffic signals, maintenance, and engineering. Every segment, except those eligible for THTB funding, receives needs for traffic signals, engineering, and maintenance. The unit prices used in the 2003 needs study are found in the Screening Board resolutions included in this booklet.

### 25 YEAR CONSTRUCTION NEEDS FOR EACH INDIVIDUAL CONSTRUCTION ITEM

				27-Apr-04
ITEM	2002 APPORTIONMENT NEEDS COST	2003 APPORTIONMENT NEEDS COST	DIFFERENCE	2003 % OF THE TOTAL
Grading	\$172,796,705	\$183,487,977	\$10,691,272	6.50%
Special Drainage	5,860,378	5,361,166	(499,212)	0.19%
Storm Sewer Adjustment	61,585,152	63,307,677	1,722,525	2.24%
Storm Sewer Construction	227,244,632	229,035,824	1,791,192	8.11%
Curb & Gutter Removal	28,006,020	29,793,067	1,787,047	1.06%
Sidewalk Removal	20,214,891	21,273,076	1,058,185	0.75%
Pavement Removal	53,405,020	55,122,549	1,717,529	1.95%
Tree removal	10,232,640	12,983,400	2,750,760	0.46%
SUBTOTAL GRADING	\$579,345,438	600,364,736	\$21,019,298	21.26%
Gravel Base #2211	\$308,837,592	\$325,914,098	17,076,506	11.54%
Bituminous Base #2350	249,329,490	262,835,050	13,505,560	9.31%
SUBTOTAL BASE	\$558,167,082	588,749,148	\$30,582,066	20.85%
Gravel Surface #2118	\$137,757	\$134,815	(\$2,942)	0.00%
Bituminous Surface #2350	236,170,200	247,636,308	11,466,108	8.77%
Surface Widening	1,137,510	1,612,837	475,327	0.06%
SUBTOTAL SURFACE	\$237,445,467	\$249,383,960	\$11,938,493	8.83%
Gravel Shoulders #2221	\$2,967,289	\$2,687,510	(\$279,779)	0.10%
SUBTOTAL SHOULDERS	\$2,967,289	\$2,687,510	(\$279,779)	0.10%
Curb and Gutter	\$141,136,028	\$149,481,344	\$8,345,316	5.29%
Sidewalk	196,422,674	207,930,560	11,507,886	7.36%
Traffic Signals	170,594,100	178,144,290	7,550,190	6.31%
Street Lighting	139,139,520	155,188,000	16,048,480	5.50%
Retaining Walls	18,582,030	18,837,579	255,549	0.67%
SUBTOTAL MISCELLANEOUS	\$665,874,352	\$709,581,773	\$43,707,421	25.13%
TOTAL ROADWAY	\$2,043,799,628	\$2,150,767,127	\$106,967,499	76.16%
Bridge	\$122,244,066	\$131,441,230	\$9,197,164	4.65%
Railroad Crossings	48,993,500	51,640,250	2,646,750	1.83%
Railloau Crussings			4 404 044	0.000/
Maintenance	22,138,974	23,270,288	1,131,314	0.82%
-	22,138,974 443,007,532	23,270,288 466,769,642	1,131,314 23,762,110	0.82% 16.53%

TOTAL	\$2,680,183,700	\$2,823,888,537	\$143,704,837	100.00%
	Rook/Individual Construction Items vis			

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# MSAS UNIT PRICE STUDY EXCAVATION - CUBIC YARD

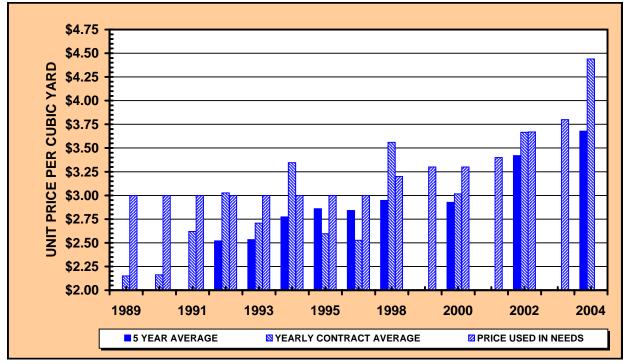
CITY	No. Of	TOTAL	TOTAL	AVERAGE			
NAME	Projects	QTY.	COST	UNIT PRICE			
District 1							
Duluth	5	54,187	\$373,395	\$6.89			
Grand Rapids	2	12,710	40,330	3.17			
Hermantown	1	26	112	4.30			
Hibbing	1	15,440	46,320	3.00			
Virginia	1	58,596	168,896	2.88			
District 1 Total	10	140,959	\$629,052	\$4.46			
		110,000	<i><b>+•-•</b>,••<b>•-</b></i>	<b>••</b>			
	Dist	rict 2					
East Grand Forks	1	8,531	\$38,901	\$4.56			
Thief River Falls	2	120	540	4.50			
District 2 Total	3	8,651	\$39,441	\$4.56			
		-,	<i>+</i> ,	+			
	Dist	rict 3					
Brainerd	2	11,524	\$66,988	\$5.81			
Little Falls	3	4,801	14,403	3.00			
Monticello	2	13,520	40,420	2.99			
Otsego	2	55,000	233,750	4.25			
Sartell	1	25,056	81,432	3.25			
St. Cloud	2	28,443	157,307	5.53			
St. Michael	1	60,874	190,499	3.13			
Waite Park	1	19,006	113,601	5.98			
District 3 Total	14	218,224	\$898,399	\$4.12			
	Dist	rict 4					
Alexandria	3	4,804	\$13,211	\$2.75			
Moorhead	2	113,024	368,159	3.26			
District 4 Total	5	117,828	\$381,370	\$3.24			
		West					
Andover	2	494	\$1,530	\$3.10			
Anoka	2	2,720	19,040	7.00			
Bloomington	2	42,924	291,280	6.79			
Brooklyn Park	2	42,592	87,953	2.07			
Champlin	2	6,314	31,381	4.97			
Chaska	2	20,900	84,200	4.03			
Coon Rapids	3	4,396	28,941	6.58			
East Bethel	1	4,658	24,455	5.25			
Ham Lake	1	1,180	11,859	10.05			
Hopkins	1	3,132	34,949	11.16			
Lino Lake	1	19,500	178,425	9.15			
Minneapolis	2	15,015	161,783	10.77			
Plymouth	1	1,330	21,413	16.10			
Savage	1	38,500	107,800	2.80			
Shorewood	1	1,000	11,200	11.20			
St. Francis	1	4,784	11,523	2.41			
Metro West Total	25	209,439	\$1,107,731	\$5.29			

# MSAS UNIT PRICE STUDY EXCAVATION - CUBIC YARD

CITY	No. Of	TOTAL	TOTAL	AVERAGE			
NAME	Projects	QTY.	COST	UNIT PRICE			
District 6							
Albert Lea	1	929	\$6,039	\$6.50			
Austin	2	3,720	14,880	4.00			
Northfield	2	3,238	15,429	4.76			
Owatonna	2	613	6,743	11.00			
Rochester	3	28,403	98,049	3.45			
Winona	2	11,789	38,314	3.25			
District 6 Total	12	48,692	\$179,454	\$3.69			
	Distr	rict 7					
Fairmont	1	7,298	\$62,033	\$8.50			
Worthington	1	4,214	21,070	5.00			
District 7 Total	2	11,512	\$83,103	\$7.22			
	Distr	rict 8					
Hutchinson	4	61,896	\$254,957	\$4.12			
Montevideo	1	4,191	15,088	3.60			
Redwood Falls	1	9,300	41,850	4.50			
Willmar	2	7,080	29,948	4.23			
District 8 Total	8	82,467	\$341,843	\$4.15			
		East					
Apple Valley	2	58,350	\$91,733	\$1.57			
Arden Hills	1	14,569	110,725	7.60			
Burnsville	2	2,375	25,358	10.68			
Eagan	3	2,470	32,110	13.00			
Maplewood	1	8,951	74,700	8.35			
Mendota Heights	1	255	14,484	56.80			
New Brighton	1	700	5,600	8.00			
Oakdale	2	28,826	178,403	6.19			
Rosemount	2	26,417	131,094	4.96			
Roseville	2	268	1,742	6.50			
St. Paul	7	37,959	196,748	5.18			
Metro East Total	24	181,140	\$862,696	\$4.76			
District Totals							
District 1 Total	10	140,959	\$629,052	\$4.46			
District 2 Total	3	8,651	39,441	φ4.40 4.56			
District 3 Total	14	218,224	898,399	4.12			
District 4 Total	5	218,224 117,828	381,370	4.12 3.24			
Metro West Total	25	209,439	1,107,731	5.29			
District 6 Total	12	48,692	179,454	3.69			
District 7 Total	2	40,092 11,512	83,103	7.22			
District 8 Total	8	82,467	341,843	4.15			
Metro East Total	o 24	02,407 181,140	862,696	4.15			
STATE TOTAL	103	1,018,912	\$4,523,089	\$4.44			
		.,	<i><i><i>v</i></i>.,<i>v</i><sub>2</sub><i>v</i>,<i>v</i><sub>0</sub><i>v</i></i>	φ			

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# **EXCAVATION**



NEEDS YEAR	NO. OF CITIES	QUANTITY	TOTAL COST	YEARLY AVERAGE CONTRACT PRICE	PRICE USED IN NEEDS	5 YEAR AVERAGE CONTRACT PRICE
1989	70	1,406,108	\$3,024,233	\$2.15	\$3.00	-
1990	65	1,263,652	2,733,063	2.16	3.00	-
1991	67	1,260,768	3,303,493	2.62	3.00	-
1992	70	1,243,656	3,764,822	3.03	3.00	\$2.52
1993	64	1,105,710	2,994,010	2.71	3.00	2.53
1994	65	1,484,328	4,965,339	3.35	3.00	2.77
1995	59	1,317,807	3,419,869	2.60	3.00	2.86
1996	68	1,691,036	4,272,539	2.53	3.00	2.84
1998	60	919,379	3,273,588	3.56	3.20	2.95
1999					3.30	
2000	56	1,157,353	3,490,120	3.02	3.30	2.93
2001					3.40	
2002	50	893,338	3,275,650	3.67	3.67	3.42
2003					3.80	
2004	56	1,018,912	4,523,089	4.44		3.68

 SUBCOMMITTEE'S RECOMMENDED PRICE FOR THE 2004 NEEDS STUDY IS
 \$4.00

PER CU. YD.

Note: There was no Unit Price Study in years 1997,1999, 2001 and 2003. Therefore, we used the total of the past five year's costs divided by the total of the past five year's quantities for the 5-Year Average.

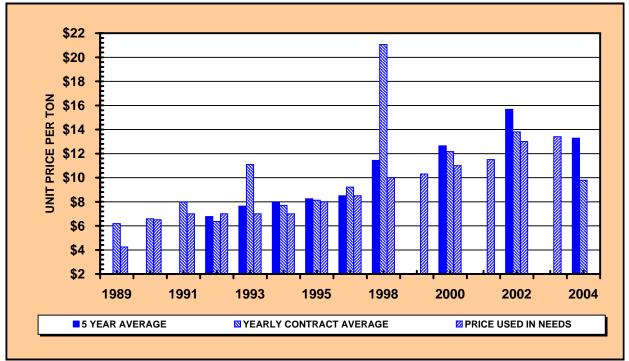


# MSAS UNIT PRICE STUDY AGGREGATE SHOULDERS - TON

Projects Distr	QTY.	COST	UNIT PRICE
Dist	rict A		
1	10	\$320	\$32.00
1	10	\$320	\$32.00
Dist	rict 6		
3	280	\$2,520	\$9.00
3	280	\$2,520	\$9.00
	1 1 Dist	1         10           District 6         280	1       10       \$320         1       10       \$320         District 6         3       280       \$2,520

District Totals						
District 1 Total	1	10	\$320	\$32.00		
District 4 Total	3	280	2,520	9.00		
STATE TOTAL	4	290	\$2,840	\$9.79		

# **AGGREGATE SHOULDERING**



				YEARLY AVERAGE	PRICE	5 YEAR AVERAGE
NEEDS	NO. OF		TOTAL	CONTRACT	<b>USED IN</b>	CONTRACT
YEAR	CITIES	QUANTITY	COST	PRICE	NEEDS	PRICE
1989	7	3485	\$21,554	\$6.18	\$4.25	-
1990	6	3714	24,444	6.58	6.50	-
1991	3	2334	18,624	7.98	7.00	-
1992	7	6285	39,992	6.36	7.00	\$6.77
1993	7	803	9,423	11.09	7.00	7.64
1994	4	999	7,691	7.70	7.00	7.94
1995	8	4923	40,009	8.13	8.00	8.25
1996	6	3067	28,277	9.22	8.50	8.50
1998	2	60	1,263	21.05	10.00	11.44
1999					10.30	
2000	4	621	7,557	12.17	11.00	12.64
2001					11.50	
2002	7	3365	46,422	13.80	13.00	15.67
2003					13.40	
2004	2	290	2,840	9.79		13.29

#### SUBCOMMITTEE'S RECOMMENDED PRICE FOR THE 2004 NEEDS STUDY IS \$13.40 PER TON

Note: There was no Unit Price Study in years 1997,1999, 2001 and 2003. Therefore, we used the total of the past five year's costs divided by the total of the past five year's quantities for the 5-Year Average.

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## MSAS UNIT PRICE STUDY CURB & GUTTER REMOVAL - LINEAR FEET

CITY	No. Of	TOTAL	TOTAL	AVERAGE
		TOTAL		
NAME	Projects	QTY.	COST	UNIT PRICE
	C	District 1		
Duluth	5	33,103	\$66,282	\$2.00
Grand Rapids	2	3,030	4,073	1.34
Hermantown	1	294	441	1.50
Hibbing	1	3,996	7,992	2.00
Virginia	1	24,099	14,324	0.59
District 1 Total	10	64,522	\$93,112	\$1.44

District 2						
Thief River Falls	2	1,260	\$6,300	\$5.00		
District 2 Total	2	1,260	\$6,300	\$5.00		

		District 3		
Brainerd	2	10,869	\$21,397	\$1.97
Elk River	1	480	1,440	3.00
Little Falls	3	2,594	7,783	3.00
Monticello	2	1,000	2,500	2.50
Otsego	2	70	140	2.00
Sartell	1	200	420	2.10
St. Cloud	2	14,069	19,532	1.39
St. Michael	1	200	730	3.65
Waite Park	1	205	308	1.50
District 3 Total	15	29,687	\$54,250	\$1.83

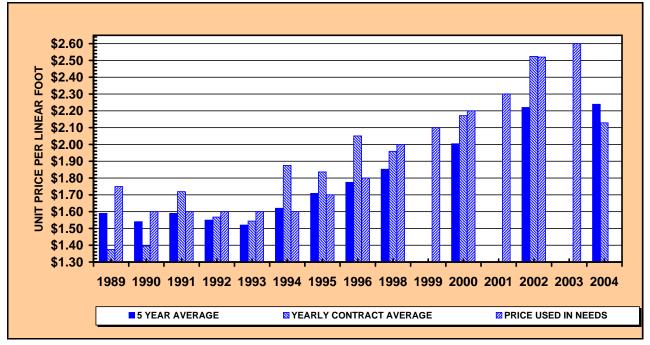
		District 4		
Alexandria	6	4,807	\$13,407	\$2.79
Moorhead	2	2,950	10,648	3.61
District 4 Total	8	7,757	\$24,055	\$3.10

Metro West						
Andover	1	325	\$650	\$2.00		
Anoka	2	4,290	8,580	2.00		
Bloomington	2	7,800	8,403	1.08		
Brooklyn Park	2	1,660	3,329	2.01		
Champlin	4	3,737	6,185	1.66		
Chaska	2	700	2,450	3.50		
Coon Rapids	3	3,552	11,584	3.26		
East Bethel	1	240	360	1.50		
Hopkins	1	5,478	14,517	2.65		
Lino Lakes	1	280	700	2.50		
Minneapolis	2	12,937	32,084	2.48		
Minnetonka	1	852	3,152	3.70		
Savage	1	800	2,400	3.00		
Shorewood	1	100	415	4.15		
St. Francis	1	174	265	1.52		
Metro West Total	25	42,925	\$95,074	\$2.21		

## **MSAS UNIT PRICE STUDY CURB & GUTTER REMOVAL - LINEAR FEET**

		REIVIOVAL - L		
CITY	No. Of	TOTAL	TOTAL	AVERAGE
NAME	Projects	QTY.	COST	UNIT PRICE
		District 6		
Austin	1	2,600	\$1,950	\$0.75
Northfield	2	4,814	8,431	1.75
Owatonna	2	210	473	2.25
Red Wing	1	460	2,990	6.50
Rochester	1	180	900	5.00
District 6 Total	7	8,264	\$14,744	\$1.78
		District 7		
Fairmont	1	4,512	\$15,792	\$3.50
Worthington	1	4	36	10.00
District 7 Total	2	4,516	\$15,828	\$3.51
		District 8		
Hutchinson	4	10,904	\$29,688	\$2.72
Marshall	2	228	1,484	6.51
Montevideo	1	60	180	3.00
Redwood Falls	1	3,002	8,256	2.75
Willmar	3	2,035	5,338	2.62
District 8 Total	11	16,229	\$44,945	\$2.77
		Metro East		
Apple Valley	7	4,400	\$15,008	\$3.41
Arden Hills	1	197	296	1.50
Burnsville	3	5,602	19,127	3.41
Eagan	3	1,905	6,858	3.60
New Brighton	1	1,170	3,510	3.00
Oakdale	2	1,875	3,118	1.66
Rosemount	2	3,431	13,723	4.00
Roseville	2	590	2,213	3.75
South St. Paul	3	101	455	4.50
St. Paul	6	3,666	9,198	2.51
Metro East Total	30	22,937	\$73,503	\$3.20
		istrict Totals		
District 1 Total	10	64,522	\$93,112	\$1.44
District 2 Total	2	1,260	6,300	5.00
District 3 Total	15	29,687	54,250	1.83
District 4 Total	8	7,757	24,055	3.10
Metro West Total	25	42,925	95,074	2.21
District 6 Total	7	8,264	14,744	1.78
District 7 Total	2	4,516	15,828	3.51
District 8 Total	11	16,229	44,945	2.77
Metro East Total	30	22,937	73,503	3.20
STATE TOTAL	110	198,097	\$421,810	\$2.13
		N:\MSAS\EXCEL\UNIT PR	RICE\UNIT PRICE BREAK OU	T.XLS C&G REMOVA

# **CURB & GUTTER REMOVAL #2104**



NEEDS	NO. OF		TOTAL	YEARLY AVERAGE CONTRACT	PRICE USED IN	5 YEAR AVERAGE CONTRACT
YEAR	CITIES	QUANTITY	COST	PRICE	NEEDS	PRICE
1989	64	211,446	\$290,721	\$1.37	\$1.75	\$1.59
1990	38	215,935	301,389	1.40	1.60	1.54
1991	59	207,105	355,996	1.72	1.60	1.59
1992	58	152,992	239,845	1.57	1.60	1.55
1993	56	118,793	183,378	1.54	1.60	1.52
1994	59	309,891	581,256	1.88	1.60	1.62
1995	51	209,177	384,029	1.84	1.70	1.71
1996	62	142,362	291,935	2.05	1.80	1.77
1998	63	150,083	294,046	1.96	2.00	1.85
1999					2.10	
2000	53	114,421	248,505	2.17	2.20	2.00
2001					2.30	
2002	42	103,074	260,173	2.52	2.52	2.22
2003					2.60	
2004	54	198,097	421,810	2.13		2.24

#### SUBCOMMITTEE'S RECOMMENDED PRICE FOR THE 2004 NEEDS STUDY IS \$2.60

PER LIN. FT.

Note: There was no Unit Price Study in years 1997,1999, 2001 and 2003. Therefore, we used the total of the past five year's costs divided by the total of the past five year's quantities for the 5-Year Average.

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## MSAS UNIT PRICE STUDY SIDEWALK REMOVAL - SQUARE YARD

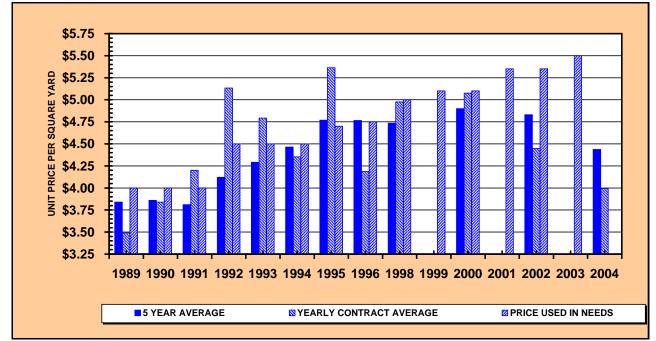
CITY	No. Of	TOTAL	TOTAL	AVERAGE				
NAME	Projects	QTY.	COST	UNIT PRICE				
		District 1						
Duluth	4	6,921	\$19,198	\$2.77				
Virginia	1	10,330	21,593	2.09				
District 1 Total	5	17,251	\$40,791	\$2.36				
District 2								
Thief River Falls	1	44	\$440	\$10.00				
District 2 Total	1	44	\$440	\$10.00				
		District 3						
Brainerd	2	9,617	\$20,014	\$2.08				
Elk River	1	268	1,208	4.50				
Little Falls	3	3,077	13,846	4.50				
St. Cloud	1	4,451	14,021	3.15				
District 3 Total	2	17,413	\$49,088	\$2.82				
		District 4						
Alexandria	4	91	\$1,233	\$13.50				
Moorhead	2	189	806	4.25				
District 4 Total	6	281	\$2,039	\$7.26				
	Ν	letro West						
Andover	1	17	\$310	\$18.00				
Anoka	2	1,100	3,960	3.60				
Bloomington	2	1,580	9,012	5.70				
Brooklyn Park	1	841	4,921	5.85				
Champlin	2	1,100	4,950	4.50				
Chaska	1	22	200	9.00				
Coon Rapids	1	39	350	9.00				
Minneapolis	2	7,502	51,312	6.84				
Minnetonka	1	45	756	16.80				
Metro West Total	13	12,246	\$75,771	\$6.19				
		District 6						
Albert Lea	1	13	\$119	\$9.00				
Austin	1	350	1,733	4.95				
Northfield	2	179	1,613	9.01				
Rochester	1	114	456	4.00				
District 6 Total	5	656	\$3,921	\$5.97				
	J	0.00	ψ0,321	ψ <b>3</b> .31				

## MSAS UNIT PRICE STUDY SIDEWALK REMOVAL - SQUARE YARD

NAME         Projects         QTY.         COST         Ul           Fairmont         1         2,475         \$18,930           Worthington         2         40         392           District 7 Total         3         2,514         \$19,322           District 7 Total         3         2,514         \$19,322           District 7 Total         3         2,514         \$19,322           District 7 Total         2         4,711         \$22,895           Marshall         2         172         2,048           Montevideo         1         14         125           Redwood Falls         1         11         100           Willmar         2         136         610           District 8 Total         8         5,044         \$25,778           Metro East           Apple Valley         5         210         \$3,420           Burnsville         2         3,199         13,402           Maplewood         1         276         552           Roseville         2         17         300           South St. Paul         1         18         161           <	SIDEWALK KENIOVAL - SQUARE TAKD							
District 7           Fairmont         1         2,475         \$18,930           Worthington         2         40         392           District 7 Total         3         2,514         \$19,322           District 7 Total         3         2,514         \$19,322           District 7 Total         2         4,711         \$22,895           Marshall         2         172         2,048           Montevideo         1         14         125           Redwood Falls         1         11         100           Willmar         2         136         610           District 8 Total         8         5,044         \$25,778           Metro East         Apple Valley         5         210         \$3,420           Burnsville         2         3,199         13,402           Maplewood         1         276         552           Roseville         2         17         300           South St. Paul         1         18         161           St. Paul         6         5,892         24,895           Metro East Total         7         9,612         \$40,791           District Total         2 <th>CITY</th> <th>No. Of</th> <th>TOTAL</th> <th>TOTAL</th> <th>AVERAGE</th>	CITY	No. Of	TOTAL	TOTAL	AVERAGE			
Fairmont       1       2,475       \$18,930         Worthington       2       40       392         District 7 Total       3       2,514       \$19,322         Intervision       2       4,711       \$22,895         Marshall       2       172       2,048         Montevideo       1       14       125         Redwood Falls       1       11       100         Willmar       2       136       610         District 8 Total       8       5,044       \$25,778         Metro East       Apple Valley       5       210       \$3,420         Burnsville       2       3,199       13,402         Maplewood       1       276       552         Roseville       2       17       300         South St. Paul       1       18       161         St. Paul       6       5,892       24,885         Metro East Total       17       9,612       \$40,791         District 1 Total       5       17,251       \$40,791         District 2 Total       1       44       440         District 3 Total       2       17,413       49,088	NAME			COST	UNIT PRICE			
Worthington         2         40         392           District 7 Total         3         2,514         \$19,322           District 7 Total         2         4,711         \$22,895           Marshall         2         172         2,048           Montevideo         1         14         125           Redwood Falls         1         11         100           Willmar         2         136         610           District 8 Total         8         5,044         \$25,778           Metro East         Apple Valley         5         210         \$3,420           Burnsville         2         3,199         13,402           Maplewood         1         276         552           Roseville         2         17         300           South St. Paul         1         18         161           St. Paul         6         5,892         24,895           Metro East Total         17         9,612         \$42,730           District 1 Total         5         17,251         \$40,791           District 3 Total         2         17,413         49,088           District 4 Total         6         281		D	istrict 7					
District 7 Total         3         2,514         \$19,322           District 8	airmont	1	2,475	\$18,930	\$7.65			
District 8           Hutchinson         2         4,711         \$22,895           Marshall         2         172         2,048           Montevideo         1         14         125           Redwood Falls         1         11         100           Willmar         2         136         610           District 8 Total         8         5,044         \$25,778           Metro East           Apple Valley         5         210         \$3,420           Burnsville         2         3,199         13,402           Maplewood         1         276         552           Roseville         2         17         300           South St. Paul         1         18         161           St. Paul         6         5,892         24,895           Metro East Total         17         9,612         \$42,730           District Totals           District 3 Total         2         17,413         49,088           District 4 Total         6         281         2,039           Metro East Total         13         12,246         75,771           District 7 Total <th cols<="" td=""><td>orthington</td><td>2</td><td>40</td><td>392</td><td>9.90</td></th>	<td>orthington</td> <td>2</td> <td>40</td> <td>392</td> <td>9.90</td>	orthington	2	40	392	9.90		
Hutchinson       2       4,711       \$22,895         Marshall       2       172       2,048         Montevideo       1       14       125         Redwood Falls       1       11       100         Willmar       2       136       610         District 8 Total       8       5,044       \$25,778         Metro East       Metro East       Metro East         Apple Valley       5       210       \$3,420         Burnsville       2       3,199       13,402         Maplewood       1       276       552         Roseville       2       17       300         South St. Paul       1       18       161         St. Paul       6       5,892       24,895         Metro East Total       17       9,612       \$40,791         District 1 Total       5       17,251       \$40,791         District 3 Total       2       17,413       49,088         District 4 Total       6       281       2,039         Metro West Total       13       12,246       75,771         District 4 Total       5       656       3,921         District 6 Total	District 7 Total	3	2,514	\$19,322	\$7.69			
Hutchinson       2       4,711       \$22,895         Marshall       2       172       2,048         Montevideo       1       14       125         Redwood Falls       1       11       100         Willmar       2       136       610         District 8 Total       8       5,044       \$25,778         Metro East       Apple Valley       5       210       \$3,420         Burnsville       2       3,199       13,402         Maplewood       1       276       552         Roseville       2       17       300         South St. Paul       1       18       161         St. Paul       6       5,892       24,895         Metro East Total       17       9,612       \$40,791         District 1 Total       5       17,251       \$40,791         District 3 Total       2       17,413       49,088         District 4 Total       6       281       2,039         Metro West Total       13       12,246       75,771         District 4 Total       6       281       2,039         Metro West Total       13       12,246       75,771								
Marshall       2       172       2,048         Montevideo       1       14       125         Redwood Falls       1       11       100         Willmar       2       136       610         District 8 Total       8       5,044       \$25,778         Metro East         Apple Valley       5       210       \$3,420         Burnsville       2       3,199       13,402         Maplewood       1       276       552         Roseville       2       17       300         South St. Paul       1       18       161         St. Paul       6       5,892       24,895         Metro East Total       17       9,612       \$40,791         District 1 Total       5       17,251       \$40,791         District 2 Total       1       44       440         District 3 Total       2       17,413       49,088         District 4 Total       6       281       2,039         Metro West Total       13       12,246       75,771         District 6 Total       5       656       3,921         District 7 Total       3       2,514		D	istrict 8					
Montevideo         1         14         125           Redwood Falls         1         11         100           Willmar         2         136         610           District 8 Total         8         5,044         \$25,778           Metro East         Apple Valley         5         210         \$3,420           Burnsville         2         3,199         13,402           Maplewood         1         276         552           Roseville         2         17         300           South St. Paul         1         18         161           St. Paul         6         5,892         24,895           Metro East Total         17         9,612         \$40,791           District 1 Total         5         17,251         \$40,791           District 2 Total         1         44         440           District 3 Total         2         17,413         49,088           District 4 Total         6         281         2,039           Metro West Total         13         12,246         75,771           District 6 Total         5         656         3,921           District 7 Total         3         2,514	utchinson		4,711	\$22,895	\$4.86			
Redwood Falls         1         11         100           Willmar         2         136         610           District 8 Total         8         5,044         \$25,778           Apple Valley         5         210         \$3,420           Burnsville         2         3,199         13,402           Maplewood         1         276         552           Roseville         2         17         300           South St. Paul         1         18         161           St. Paul         6         5,892         24,895           Metro East Total         17         9,612         \$40,791           District 1 Total         5         17,251         \$40,791           District 2 Total         1         44         440           District 3 Total         2         17,413         49,088           District 4 Total         6         281         2,039           Metro West Total         13         12,246         75,771           District 7 Total         3         2,514         19,322           District 7 Total         8         5,044         25,778           Metro East Total         17         9,612	arshall	2	172	2,048	11.91			
Willmar         2         136         610           District 8 Total         8         5,044         \$25,778           Apple Valley         5         210         \$3,420           Burnsville         2         3,199         13,402           Maplewood         1         276         552           Roseville         2         17         300           South St. Paul         1         18         161           St. Paul         6         5,892         24,895           Metro East Total         17         9,612         \$40,791           District 1 Total         5         17,251         \$40,791           District 2 Total         1         44         440           District 3 Total         2         17,413         49,088           District 4 Total         6         281         2,039           Metro West Total         13         12,246         75,771           District 6 Total         5         656         3,921           District 7 Total         3         2,514         19,322           District 7 Total         8         5,044         25,778           Metro East Total         17         9,612	ontevideo	1	14	125	9.00			
District 8 Total         8         5,044         \$25,778           Apple Valley         5         210         \$3,420           Burnsville         2         3,199         13,402           Maplewood         1         276         552           Roseville         2         17         300           South St. Paul         1         18         161           St. Paul         6         5,892         24,895           Metro East Total         17         9,612         \$42,730           District Totals           District 1 Total         5         17,251         \$40,791           District 2 Total         1         44         440           District 3 Total         2         17,413         49,088           District 4 Total         6         281         2,039           Metro West Total         13         12,246         75,771           District 6 Total         5         656         3,921           District 7 Total         3         2,514         19,322           District 8 Total         8         5,044         25,778           Metro East Total         17         9,612         42,730	edwood Falls	1		100	9.00			
Metro East           Apple Valley         5         210         \$3,420           Burnsville         2         3,199         13,402           Maplewood         1         276         552           Roseville         2         17         300           South St. Paul         1         18         161           St. Paul         6         5,892         24,895           Metro East Total         17         9,612         \$42,730           District Totals           District 1 Total         5         17,251         \$40,791           District 2 Total         1         44         440           District 3 Total         2         17,413         49,088           District 4 Total         6         281         2,039           Metro West Total         13         12,246         75,771           District 6 Total         5         656         3,921           District 7 Total         3         2,514         19,322           District 8 Total         8         5,044         25,778           Metro East Total         17         9,612         42,730				610	4.50			
Apple Valley       5       210       \$3,420         Burnsville       2       3,199       13,402         Maplewood       1       276       552         Roseville       2       17       300         South St. Paul       1       18       161         St. Paul       6       5,892       24,895         Metro East Total       17       9,612       \$42,730         District Totals         District 1 Total       5       17,251       \$40,791         District 2 Total       1       44       440         District 3 Total       2       17,413       49,088         District 4 Total       6       281       2,039         Metro West Total       13       12,246       75,771         District 6 Total       5       656       3,921         District 7 Total       3       2,514       19,322         District 8 Total       8       5,044       25,778         Metro East Total       17       9,612       42,730	District 8 Total	8	5,044	\$25,778	\$5.11			
Apple Valley       5       210       \$3,420         Burnsville       2       3,199       13,402         Maplewood       1       276       552         Roseville       2       17       300         South St. Paul       1       18       161         St. Paul       6       5,892       24,895         Metro East Total       17       9,612       \$42,730         District Totals         District 1 Total       5       17,251       \$40,791         District 2 Total       1       44       440         District 3 Total       2       17,413       49,088         District 4 Total       6       281       2,039         Metro West Total       13       12,246       75,771         District 6 Total       5       656       3,921         District 7 Total       3       2,514       19,322         District 8 Total       8       5,044       25,778         Metro East Total       17       9,612       42,730								
Burnsville       2       3,199       13,402         Maplewood       1       276       552         Roseville       2       17       300         South St. Paul       1       18       161         St. Paul       6       5,892       24,895         Metro East Total       17       9,612       \$42,730         District Totals         District 1 Total       5       17,251       \$40,791         District 2 Total       1       44       440         District 3 Total       2       17,413       49,088         District 4 Total       6       281       2,039         Metro West Total       13       12,246       75,771         District 6 Total       5       656       3,921         District 7 Total       3       2,514       19,322         District 8 Total       8       5,044       25,778         Metro East Total       17       9,612       42,730		Me	etro East					
Maplewood         1         276         552           Roseville         2         17         300           South St. Paul         1         18         161           St. Paul         6         5,892         24,895           Metro East Total         17         9,612         \$42,730           District Totals         District Totals         District 2 \$42,730           District 2 Total         1         44         440           District 3 Total         2         17,413         49,088           District 3 Total         2         17,413         49,088           District 4 Total         6         281         2,039           Metro West Total         13         12,246         75,771           District 6 Total         5         656         3,921           District 7 Total         3         2,514         19,322           District 8 Total         8         5,044         25,778           Metro East Total         17         9,612         42,730	pple Valley	5	210	\$3,420	\$16.29			
Roseville       2       17       300         South St. Paul       1       18       161         St. Paul       6       5,892       24,895         Metro East Total       17       9,612       \$42,730         District Totals       District Totals       0       0         District 1 Total       5       17,251       \$40,791         District 2 Total       1       44       440         District 3 Total       2       17,413       49,088         District 4 Total       6       281       2,039         Metro West Total       13       12,246       75,771         District 6 Total       5       656       3,921         District 7 Total       3       2,514       19,322         District 8 Total       8       5,044       25,778         Metro East Total       17       9,612       42,730	urnsville		-		4.19			
South St. Paul         1         18         161           St. Paul         6         5,892         24,895           Metro East Total         17         9,612         \$42,730           District Totals         District Totals         0         0           District 1 Total         5         17,251         \$40,791         0           District 2 Total         1         44         440         0	•				2.00			
St. Paul       6       5,892       24,895         Metro East Total       17       9,612       \$42,730         District Totals         District 1 Total       5       17,251       \$40,791         District 2 Total       1       44       440         District 3 Total       2       17,413       49,088         District 4 Total       6       281       2,039         Metro West Total       13       12,246       75,771         District 6 Total       5       656       3,921         District 7 Total       3       2,514       19,322         District 8 Total       8       5,044       25,778         Metro East Total       17       9,612       42,730	oseville	2	17	300	18.00			
Metro East Total         17         9,612         \$42,730           District 1 Total         5         17,251         \$40,791           District 2 Total         1         44         440           District 3 Total         2         17,413         49,088           District 4 Total         6         281         2,039           Metro West Total         13         12,246         75,771           District 6 Total         5         656         3,921           District 7 Total         3         2,514         19,322           District 8 Total         17         9,612         42,730	outh St. Paul			161	9.00			
District Totals           District 1 Total         5         17,251         \$40,791           District 2 Total         1         44         440           District 3 Total         2         17,413         49,088           District 4 Total         6         281         2,039           Metro West Total         13         12,246         75,771           District 6 Total         5         656         3,921           District 7 Total         3         2,514         19,322           District 8 Total         17         9,612         42,730	t. Paul	6	5,892	24,895	4.22			
District 1 Total517,251\$40,791District 2 Total144440District 3 Total217,41349,088District 4 Total62812,039Metro West Total1312,24675,771District 6 Total56563,921District 7 Total32,51419,322District 8 Total85,04425,778Metro East Total179,61242,730	Metro East Total	17	9,612	\$42,730	\$4.45			
District 1 Total517,251\$40,791District 2 Total144440District 3 Total217,41349,088District 4 Total62812,039Metro West Total1312,24675,771District 6 Total56563,921District 7 Total32,51419,322District 8 Total85,04425,778Metro East Total179,61242,730								
District 2 Total144440District 3 Total217,41349,088District 4 Total62812,039Metro West Total1312,24675,771District 6 Total56563,921District 7 Total32,51419,322District 8 Total85,04425,778Metro East Total179,61242,730		Dist	rict Totals					
District 3 Total217,41349,088District 4 Total62812,039Metro West Total1312,24675,771District 6 Total56563,921District 7 Total32,51419,322District 8 Total85,04425,778Metro East Total179,61242,730		5	,		\$2.36			
District 4 Total62812,039Metro West Total1312,24675,771District 6 Total56563,921District 7 Total32,51419,322District 8 Total85,04425,778Metro East Total179,61242,730					10.00			
Metro West Total         13         12,246         75,771           District 6 Total         5         656         3,921           District 7 Total         3         2,514         19,322           District 8 Total         8         5,044         25,778           Metro East Total         17         9,612         42,730					2.82			
District 6 Total         5         656         3,921           District 7 Total         3         2,514         19,322           District 8 Total         8         5,044         25,778           Metro East Total         17         9,612         42,730					7.26			
District 7 Total         3         2,514         19,322           District 8 Total         8         5,044         25,778           Metro East Total         17         9,612         42,730					6.19			
District 8 Total         8         5,044         25,778           Metro East Total         17         9,612         42,730					5.97			
Metro East Total 17 9,612 42,730					7.69			
		-			5.11			
	etro East Total	17	9,612	42,730	4.45			
STATE TOTAL 60 65,062 \$259,880	TATE TOTAL	60	65,062	\$259,880	\$3.99			

N:\MSAS\EXCEL\UNIT PRICE\UNIT PRICE BREAK OUT.XLS SIDEWALK REMOVAL

# **SIDEWALK REMOVAL #2105**



				YEARLY AVERAGE	PRICE	5 YEAR AVERAGE
NEEDS	NO. OF		TOTAL	CONTRACT	USED IN	CONTRACT
YEAR	CITIES	QUANTITY	COST	PRICE	NEEDS	PRICE
1989	46	77,633	\$270,831	\$3.49	\$4.00	\$3.84
1990	41	50,017	192,021	3.84	4.00	3.86
1991	43	71,868	301,912	4.20	4.00	3.81
1992	45	57,606	295,735	5.13	4.50	4.12
1993	40	43,017	206,147	4.79	4.50	4.29
1994	39	54,206	235,995	4.35	4.50	4.46
1995	34	73,172	392,401	5.36	4.70	4.77
1996	46	49,759	208,305	4.19	4.75	4.77
1998	41	36,967	183,894	4.97	5.00	4.73
1999					5.10	
2000	37	44,143	224,067	5.08	5.10	4.90
2001					5.35	
2002	28	42,436	188,701	4.45	5.35	4.83
2003					5.50	
2004	35	65,062	259,880	3.99		4.44

#### \$5.50

PER SQ.YD.

SUBCOMMITTEE'S RECOMMENDED PRICE FOR THE 2004 NEEDS STUDY IS

Note: There was no Unit Price Study in years 1997,1999, 2001 and 2003. Therefore, we used the total of the past five year's costs divided by the total of the past five year's quantities for the 5-Year Average.

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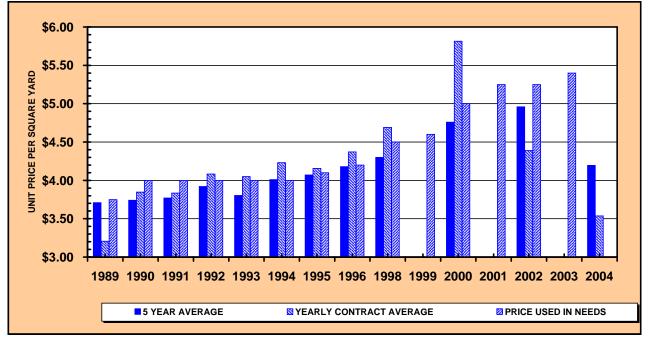
### MSAS UNIT PRICE STUDY CONCRETE PAVEMENT REMOVAL - SQUARE YARD

OUNDICETET			OQUAN	
CITY	No. Of	TOTAL	TOTAL	AVERAGE
NAME	Projects	QTY.	COST	UNIT PRICE
		District 1		0
			A	
Duluth	5	13,572	\$45,556	\$3.36
Hermantown	1	168	672	4.00
Virginia	1	76,677	121,812	1.59
District 1 Total	7	90,417	\$168,040	\$1.86
		/		
	ſ	District 2		
Ducincud			¢474.000	<b>Ф</b> Г со
Brainerd	2	30,790	\$174,982	\$5.68
Little Falls	1	147	737	5.00
Sartell	1	17	65	3.85
St. Cloud	1	159	954	6.00
District 3 Total	5	31,113	\$176,738	\$5.68
	-		<i>•••••••••••••••••••••••••••••••••••••</i>	
	ſ	District 4		
AL			<b>*</b> 0.00 <b>-</b> 7	<b>A</b> 45 75
Alexandria	2	182	\$2,867	\$15.75
Moorhead	1	13	94	7.20
District 4 Total	3	195	\$2,960	\$15.18
	M	etro West		
Coon Rapida	2	1,005	¢6 794	¢6 75
Coon Rapids		,	\$6,784	\$6.75
Hopkins	1	2,113	18,802	8.90
Lino Lakes	1	172	\$772	4.50
Metro West Total	4	3,289	\$26,358	\$8.01
	]	District 6		
Albert Lea	1	12,721	\$58,516	\$4.60
			52,728	
Austin	2	13,520		3.90
Owatonna	1	9	76	8.40
Rochester	1	492	3,444	7.00
District 6 Total	5	26,742	\$114,764	\$4.29
	[	District 7		
Fairmont	1	11,050	\$65,601	\$5.94
Worthington	2	6,972	26,145	3.75
	3		,	\$5.09
District 7 Total	3	18,022	\$91,746	\$ <b>0.</b> 09
	Γ	District 8		
Hutchinson	2	135	\$967	\$7.17
Willmar	2	2,545	11,965	4.70
District 8 Total	4	2,680	\$12,932	\$4.83
		_,	,,	÷ 1100
	M	atra East		
		etro East	<b>6</b> 4 6 6	<b>A- A</b> -
Oakdale	1	20	\$100	\$5.00
Rosemount	1	70	703	10.00
St. Paul	4	16,127	73,002	4.53
Metro East Total	6	16,217	\$73,805	\$4.55
		,	. ,	
	Die	trict Totals		
District 1 Total			¢169.040	¢4.00
District 1 Total	7	90,417	\$168,040	\$1.86
District 3 Total	5	31,113	176,738	5.68
District 4 Total	3	195	2,960	15.18
Metro West Total	4	3,289	26,358	8.01
District 6 Total	5	26,742	114,764	4.29
District 7 Total	3	18,022	91,746	5.09
District 8 Total	4			
		2,680	12,932	4.83
Metro East Total	6	16,217	73,805	4.55
OTATE TOTAL				
STATE TOTAL	37	188,676	\$667,342	\$3.54

N:\MSAS\EXCEL\UNIT PRICE\UNIT PRICE BREAK OUT.XLS CONCRETE PAVEMANT REMOVAL

#### 19-Apr-04

# **CONCRETE PAVEMENT REMOVAL #2106**



NEEDS	NO. OF		TOTAL	YEARLY AVERAGE CONTRACT	PRICE USED IN	5 YEAR AVERAGE CONTRACT
YEAR	CITIES	QUANTITY	COST	PRICE	NEEDS	PRICE
1989	44	276,630	\$886,757	\$3.21	\$3.75	\$3.71
1990	27	88,278	339,571	3.85	4.00	3.74
1991	27	108,995	418,053	3.84	4.00	3.77
1992	23	98,752	403,278	4.08	4.00	3.92
1993	26	190,259	770,477	4.05	4.00	3.80
1994	26	185,066	782,965	4.23	4.00	4.01
1995	27	81,258	337,753	4.16	4.10	4.07
1996	28	78,122	341,385	4.37	4.20	4.18
1998	24	110,941	520,259	4.69	4.50	4.30
1999					4.60	
2000	15	68,760	399,759	5.81	5.00	4.76
2001					5.25	
2002	17	64,918	284,994	4.39	5.25	4.96
2003					5.40	
2004	23	188,676	667,342	3.54		4.19

#### SUBCOMMITTEE'S RECOMMENDED PRICE FOR THE 2004 NEEDS STUDY IS \$5.40 PER SQ. YD.

Note: There was no Unit Price Study in years 1997,1999, 2001 and 2003. Therefore, we used the total of the past five year's costs divided by the total of the past five year's quantities for the 5-Year Average.

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## MSAS UNIT PRICE STUDY TREE REMOVAL - CLEARING

CITY	No. Of	TOTAL	TOTAL	AVERAGE		
NAME	Projects	QTY.	COST	UNIT PRICE		
District 1						
Duluth	4	81	\$22,463	\$277.33		
Grand Rapids	1	8	800	100.00		
Virginia	1	14	2,212	158.00		
District 1 Total	6	103	\$25,475	\$247.33		

		District 3		
Brainerd	2	7	\$3,352	\$478.80
Little Falls	2	28	3,920	140.00
Monticello	1	6	1,800	300.00
Sartell	1	10	850	85.00
St. Cloud	2	38	7,850	206.58
Waite Park	1	1	75	75.00
District 3 Total	9	90	\$17,847	\$198.30

		District 4		
Alexandria	1	1	\$150	\$150.00
Moorhead	1	3	1,500	500.00
District 4 Total	2	4	\$1,650	\$412.50

		Metro West		
Anoka	2	8	\$2,000	\$250.00
Bloomington	2	45	5,700	126.67
Brooklyn Park	2	61	3,760	61.64
Coon Rapids	1	13	3,575	275.00
Lino Lakes	1	139	13,900	100.00
Minneapolis	1	6	3,365	560.76
Minnetonka	1	5	1,300	260.00
Metro West Total	10	277	\$33,600	\$121.30

		District 6		
Albert Lea	1	19	\$1,900	\$100.00
Northfield	1	3	630	210.00
Owatonna	1	1	160	160.00
Rochester	1	28	14,000	500.00
District 6 Total	4	51	\$16,690	\$327.25

		District 7		
Worthington	1	1	\$500	\$500.00
District 7 Total	1	1	\$500	\$500.00

		District 8		
Hutchinson	2	11	\$2,750	\$250.00
Redwood Falls	1	5	375	75.00
District 8 Total	3	16	\$3,125	\$195.31

h				
		Metro East		
Arden Hills	1	159	\$31,700	\$200.00
Burnsville	2	17	3,875	227.94
Maplewood	1	75	11,250	150.00
Oakdale	1	10	750	75.00
Rosemount	2	44	11,933	269.66
Metro East Total	7	305	\$59,508	\$195.27

### MSAS UNIT PRICE STUDY TREE REMOVAL - GRUBBING

IRE	TREE REMOVAL - GRUBBING						
CITY	No. Of	TOTAL	TOTAL	AVERAGE			
NAME	Projects	QTY.	COST	UNIT PRICE			
		strict 1					
Duluth	4	83	\$7,939	\$95.65			
Grand Rapids	1	8	008, <i>ب</i> ټ	100.00			
Virginia	1	14	1,232	88.00			
District 1 Total	6	105	\$9,971	<b>\$94.96</b>			
District i rotai	U	105	<b>\$</b> 3,371	φ34.30			
	Di	strict 3					
Brainerd	2	7	\$1,609	\$229.89			
Little Falls	2	28	3,920	φ229.09 140.00			
Monticello	2	28 6	3,920 1,050	175.00			
Sartell	1	10	850	85.00			
	-						
St. Cloud	2	52 1	6,225	119.71			
Waite Park District 3 Total	1 9	104	75 \$12 720	75.00			
DISTRICT S TOTAL	9	104	\$13,729	\$132.01			
	Di	strict 4					
Alexandria	1	4	\$600	\$150.00			
Moorhead	1	4 3	<del>ъ</del> 600 600	200.00			
District 4 Total	2	7	<b>\$1,200</b>	\$171.43			
	L	,	φ1,200	ψ171.45			
	Me	tro West					
Anoka	2	8	\$1,200	\$150.00			
Bloomington	2	45	5,700	126.67			
Brooklyn Park	2	61	2,703	44.31			
Coon Rapids	1	13	2,705	195.00			
Lino Lakes	1	139	4,865	35.00			
Minneapolis	1	6	3,044	507.36			
Minnetonka	1	5	950	190.00			
Metro West Total	10	277	\$20,997	\$75.80			
			<i> </i>	••••••			
	Di	strict 6					
Albert Lea	1	19	\$1,425	\$75.00			
Northfield	1	3	375	125.00			
Owatonna	1	1	120	120.00			
Rochester	1	28	5,600	200.00			
District 6 Total	3	51	\$7,520	\$147.45			
			· ·				
	Di	strict 7					
Worthington	1	1	\$350	\$350.00			
District 7 Total	1	1	\$350	\$350.00			
		_					
		strict 8					
Hutchinson	2	11	\$2,750	\$250.00			
Redwood Falls	1	5	250	50.00			
District 8 Total	3	16	\$3,000	\$187.50			
		tro East					
Ardon Hillo		tro East	¢0,000	¢75.00			
Arden Hills	1	111	\$8,288	\$75.00			
Burnsville	2	17	2,075	122.06			
Maplewood	1	60	9,000	150.00			
Oakdale	1	10	500	50.00			
Rosemount	2	44	4,210	95.14			
St. Paul Metro East Total	3 <b>10</b>	9 <b>251</b>	4,500	500.00			
WELLO EAST TOTAL	10	40	\$28,573	\$113.95			

## MSAS UNIT PRICE STUDY TREE REMOVAL - CLEARING

CITY	No. Of	TOTAL	TOTAL	AVERAGE
NAME	Projects	QTY.	COST	<b>UNIT PRICE</b>
	Distrie	ct Totals		
District 1 Total	6	103	\$25,475	\$247.33
District 3 Total	9	90	17,847	198.30
District 4 Total	2	4	1,650	412.50
Metro West Total	10	277	33,600	121.30
District 6 Total	4	51	16,690	327.25
District 7 Total	1	1	500	500.00
District 8 Total	3	16	3,125	195.31
Metro East Total	7	305	59,508	195.27
TOTAL OF CADING	40	0.47	#450 004	¢407.00

TOTAL CLEARING 42	847 \$158,394	\$187.06
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### MSAS UNIT PRICE STUDY TREE REMOVAL - GRUBBING

No. Of	TOTAL	TOTAL	AVERAGE
Projects	QTY.	COST	<b>UNIT PRICE</b>
Distric	ct Totals		
6	105	\$9,971	\$94.96
9	104	13,729	132.01
2	7	1,200	171.43
10	277	20,997	75.80
3	51	7,520	147.45
1	1	350	350.00
3	16	3,000	187.50
10	251	28,573	113.95
44	812	\$85,340	\$105.13
	Projects Distric 6 9 2 10 3 1 3 1 3 10	Projects         QTY.           District Totals         6           6         105           9         104           2         7           10         277           3         51           1         1           3         16           10         251	ProjectsQTY.COSTDistrict Totals6105\$9,971910413,729271,2001027720,9973517,520113503163,0001025128,573

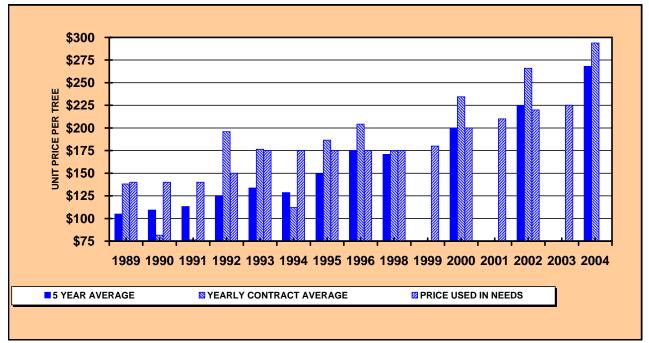
## CLEARING AND GRUBBING ARE COMBINED TO COMPUTE TREE REMOVAL

CITY	No. Of	TOTAL	TOTAL	AVERAGE
NAME	Projects	QTY.	COST	UNIT PRICE
TOTAL CLEARING	42	847	158,394	\$187.06
TOTAL GRUBBING	44	812	85,340	\$105.13
TOTAL		1,659	243,734	\$146.96

1659/2=829.5 TREES	
AVERAGE COST PER TREE = \$243,734/829.5 = \$293.83	

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# **TREE REMOVAL #2101**



				YEARLY AVERAGE	PRICE	5 YEAR AVERAGE
NEEDS	NO. OF		TOTAL	CONTRACT	USED IN	CONTRACT
YEAR	CITIES	QUANTITY	COST	PRICE	NEEDS	PRICE
1989	40	884	\$122,030	\$138.04	\$140.00	\$104.88
1990	37	1,659	135,381	81.60	140.00	109.35
1991	35	1,869	142,888	76.45	140.00	113.19
1992	39	867	169,797	195.84	150.00	125.11
1993	34	853	150,442	176.37	175.00	133.66
1994	35	1,876	210,444	112.18	175.00	128.49
1995	41	1,136	211,912	186.54	175.00	149.48
1996	33	783	159,884	204.19	175.00	175.03
1998	28	779	136,044	174.64	175.00	170.78
1999					180.00	
2000	24	593	138,966	234.34	200.00	199.93
2001					210.00	
2002	21	625	166,204	265.93	220.00	224.97
2003					225.00	
2004	31	830	243,734	293.83		268.08

#### SUBCOMMITTEE'S RECOMMENDED PRICE FOR THE 2004 NEEDS STUDY IS \$235.00 PER TREE

Note: There was no Unit Price Study in years 1997,1999, 2001 and 2003. Therefore, we used the total of the past five year's costs divided by the total of the past five year's quantities for the 5-Year Average.

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## MSAS UNIT PRICE STUDY AGGREGATE BASE 2211 - TONS

~	OUNLOAT		1 - 10145	
CITY	No. Of	TOTAL	TOTAL	AVERAGE
NAME	Projects	QTY.	COST	UNIT PRICE
		District 1		
Duluth	6	9,429	\$183,471	\$19.46
Grand Rapids	2	4,458	38,974	8.74
Hermantown	1	22	330	15.00
Hibbing	1	7,120	74,760	10.50
Virginia	1	123,092	548,862	4.46
District 1 Total	11	144,121	\$846,398	\$5.87
		District 0		
		District 2	<b>#5</b> 00 <b>7</b>	<b>005 57</b>
East Grand Forks	1	143	\$5,087	\$35.57
Thief River Falls	2	140	770	5.50
District 2 Total	3	283	\$5,857	\$20.69
		District 3		
Brainerd	2	19,313	\$174,448	\$9.03
Elk River	1	640	9,600	15.00
Monticello	2	3,510	35	0.01
Otsego	2	29,600	223,083	7.54
Sartell	1	9,761	108,640	11.13
St. Cloud	2	12,555	212,576	16.93
St. Michael	1	28,988	188,422	6.50
<b>District 3 Total</b>	11	104,367	\$916,803	\$8.78
		District 4		
Alexandria	3	6,486	\$27,800	\$4.29
Moorhead	2	17,735	269,140	15.18
District 4 Total	5	24,221	\$296,940	\$12.26
		Motro Wost		

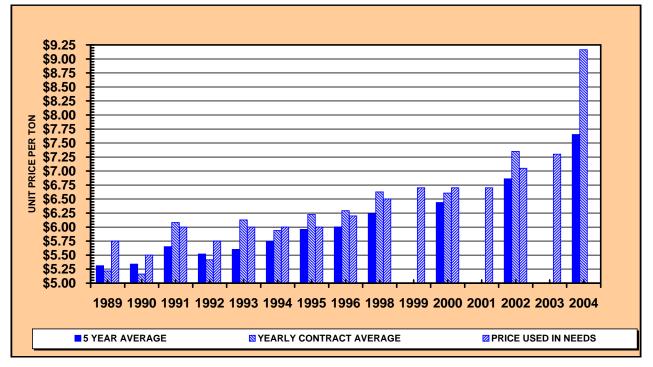
Metro West							
Andover	2	430	\$5,628	\$13.09			
Anoka	2	3,304	38,987	11.80			
Bloomington	2	15,692	211,514	13.48			
Brooklyn Park	2	17,455	165,080	9.46			
Champlin	2	4,185	100,440	24.00			
Chaska	2	13,155	153,914	11.70			
Coon Rapids	2	582	4,889	8.40			
East Bethel	1	1,757	21,383	12.17			
Ham Lake	1	1,606	16,060	10.00			
Hopkins	2	1,671	38,304	22.92			
Lino Lakes	1	12,000	81,600	6.80			
Minneapolis	2	9,485	114,769	12.10			
Minnetonka	1	1,460	19,637	13.45			
Plymouth	1	475	10,640	22.40			
Savage	1	35,500	333,700	9.40			
Shorewood	1	3,200	42,880	13.40			
St. Francis	1	1,411	9,126	6.47			
Metro West Total	26	123,368	\$1,368,549	\$11.09			

## MSAS UNIT PRICE STUDY AGGREGATE BASE 2211 - TONS

NAME         Projects         QTY.         COST         UNIT PRICE           District 6	A	GGREGF	ATE DASE ZZI	1-10113	
District 6           Albert Lea         1         1,841         \$24,854         \$13.50           Austin         2         7,100         62,125         8.75           Northfield         2         3,456         25,441         7.36           Owatonna         2         458         5,038         11.00           Red Wing         2         2,930         30,765         10.50           Rochester         3         18,185         235,568         12.95           District 6 Total         14         37,136         \$449,485         \$12.10           District 7 Total         2         4,284         \$73,728         \$17.21           District 7           Fairmont         1         2,200         \$29,50         7.00           Worthington         1         2,100         44,088         22.00           District 8         1         5,000         30,000         6.00           Wintevideo         1         4,150         29,050         7.00           Redwood Falls         1         5,000         30,000         6.00           Willey         4         9,720         \$73,745         \$7.59           <	CITY	No. Of	TOTAL	TOTAL	AVERAGE
Albert Lea 1 1,841 \$24,854 \$13.50 Austin 2 7,100 62,125 8.75 Northfield 2 3,456 25,441 7.36 Owatonna 2 458 5,038 11.00 Red Wing 2 2,3,456 235,568 12,95 Winona 2 3,166 65,695 20.75 District 6 Total 14 37,136 \$449,485 \$12,90 District 7 Total 1 2,280 \$29,640 \$13.00 Worthington 1 2,004 44,088 22.00 District 7 Total 2 4,284 \$73,728 \$17.21 Total 1 4,150 29,050 7.00 Redwood Falls 1 5,000 30,000 6.00 Willmar 2 11,400 92,910 8.15 District 8 Total 8 58,419 \$447,342 \$7.66 Mendoa Hills 1 6,642 79,777 12.01 Burnsville 2 4,005 45,280 11.31 Eagan 3 577 8,655 15.00 Maplewood 1 10,175 91,575 9.00 Maplewood 1 10,175 91,575 9.00 Mendota Heights 1 215 3,204 14,90 New Brighton 1 40 344 8.60 Oakdale 2 10,812 98,188 9.08 Roserville 1 110 1,430 13.00 South St. Paul 7 12,281 221,834 17.22 Metro East Total 26 76,954 \$847,702 \$11.02 Metro East Total 26 76,954 \$847,702 \$11.02 Metro East Total 26 76,954 847,702 \$11.02 Metro East Total 26 76,9	NAME	Projects	QTY.	COST	UNIT PRICE
Austin         2         7,100         62,125         8,75           Northfield         2         3,456         25,441         7,36           Owatonna         2         4,85         5,038         11.00           Red Wing         2         2,930         30,765         10.50           Rochester         3         18,185         235,568         12.95           District 6 Total         14         37,136         \$449,485         \$12.10           District 7           Fairmont         1         2,280         \$29,640         \$13.00           Worthington         1         2,004         44,088         22.00           District 7           Fairmont         1         2,004         44,088         22.00           District 7           Futch Set           Hutchinson         4         37,869         \$295,382         \$7.80           Montevideo         1         4,150         29,050         7.00           Redwood Falls         1         5,000         30,000         6.00           Willmar         2         1,4100         \$242         \$7.56 <t< td=""><td></td><td></td><td>District 6</td><td></td><td></td></t<>			District 6		
Austin         2         7,100         62,125         8,75           Northfield         2         3,456         25,441         7,36           Owatonna         2         4,85         5,038         11.00           Red Wing         2         2,930         30,765         10.50           Rochester         3         18,185         235,568         12.95           District 6 Total         14         37,136         \$449,485         \$12.10           District 7           Fairmont         1         2,280         \$29,640         \$13.00           Worthington         1         2,004         44,088         22.00           District 7           Fairmont         1         2,004         44,088         22.00           District 7           Futch Set           Hutchinson         4         37,869         \$295,382         \$7.80           Montevideo         1         4,150         29,050         7.00           Redwood Falls         1         5,000         30,000         6.00           Willmar         2         1,4100         \$242         \$7.56 <t< td=""><td>Albert Lea</td><td>1</td><td>1,841</td><td>\$24,854</td><td>\$13.50</td></t<>	Albert Lea	1	1,841	\$24,854	\$13.50
Northfield         2         3,456         25,441         7.36           Owatonna         2         458         5,038         11.00           Red Wing         2         2,930         30,765         10.50           Rochester         3         18,185         235,568         12.95           District 6 Total         14         37,136         \$449,485         \$12.10           District 7           Fairmont         1         2,004         44,088         22.00           District 7           Total         2         4,284         \$73,728         \$17.21           District 7           Total         2         4,284         \$73,728         \$17.21           District 8           Metro East           Redword Falls         1         6,642         79,777         12.01           Metro East           Arden Hills         1         6,642         79,777         12.01           Metro East           Arden Hills         1         10,175         91,575         9.00           Mendota Heights         1	Austin	2			
Owatonna         2         458         5,038         11.00           Red Wing         2         2,930         30,765         10.50           Rochester         3         18,185         235,568         12.95           Winona         2         3,166         65,695         20.75           District 6 Total         14         37,136         \$449,485         \$12.10           District 7           Fairmont         1         2,280         \$29,640         \$13.00           Worthington         1         2,004         44,088         22.00           District 7           Total         2         4,284         \$73,728         \$17.21           District 8           Hutchinson         4         37,869         \$295,382         \$7.80           Montevideo         1         4,150         29,050         7.00           Redwood Falls         1         5,000         30,000         6.00           Willmar         2         11,400         92,910         8.15           District 8 Total         8         58,419         \$447,342         \$7.66           District 8 Total	Northfield				
Red Wing         2         2,930         30,765         10.50           Rochester         3         18,185         235,568         12.95           District 6 Total         14         37,136         \$449,485         \$12.10           District 6 Total         14         37,136         \$449,485         \$12.10           District 7           Fairmont         1         2,280         \$29,640         \$13.00           Worthington         1         2,004         44,088         22.00           District 7           Total         2         4,284         \$73,728         \$17.21           District 8           Hutchinson         4         37,869         \$295,382         \$7.80           Montevideo         1         4,150         29,050         7.00           Redwood Falls         1         5,000         30,000         6.00           Willmar         2         11,400         92,910         8.15           District 8 Total         8         58,419         \$447,342         \$7.59           Arden Hills         1         6,642         79,777         12.01           Bursville         <					
Rochester         3         18,185         235,568         12.95           Winona         2         3,166         65,695         20.75           District 6 Total         14         37,136         \$449,485         \$12.10           District 7           Fairmont         1         2,280         \$29,640         \$13.00           Worthington         1         2,004         44,088         22.00           District 7         Total         2         4,284         \$73,728         \$17.21           District 7         Total         2         4,284         \$73,728         \$17.21           Underster 8           Hutchinson         4         37,869         \$295,382         \$7.80           Montevideo         1         4,150         29,050         7.00           Redwood Falls         1         5,000         30,000         6.00           Willmar         2         1,400         92,910         8.15           Bistrict 8 Total         8         58,419         \$447,342         \$7.66           Metro East           Adget Valley         4         9,720					
Winona         2         3,166         65,695         20.75           District 6 Total         14         37,136         \$449,485         \$12.10           District 7         District 7         S29,640         \$13.00           Worthington         1         2,280         \$29,640         \$13.00           Worthington         1         2,004         44,088         22.00           District 7 Total         2         4,284         \$73,728         \$17.21           District 7           Montevideo         1         4,150         29,050         7.00           Redwood Falls         1         5,000         30,000         6.00           Willmar         2         11,400         92,910         8.15           District 8 Total         8         58,419         \$447,342         \$7.66           Metro East           Arden Hills         1         6,642         79,777         12.01           Bistrict 8 Total         8         58,419         \$447,342         \$7.59           Metro East           Adopt Valley         4         9,720         \$73,745         \$5.00	5				
District 6 Total         14         37,136         \$449,485         \$12.10           District 7         District 7           Fairmont         1         2,280         \$29,540         \$13.00           Worthington         1         2,004         44,088         22.00           District 7 Total         2         4,284         \$73,728         \$17.21           District 8           Hutchinson         4         37,869         \$295,382         \$7.80           Montevideo         1         4,150         29,050         7.00           Redwood Falls         1         5,000         30,000         6.00           Willmar         2         11,400         92,910         8.15           District 8 Total         8         58,419         \$447,342         \$7.66           Metro East           Apple Valley         4         9,720         \$73,745         \$7.59           Arden Hills         1         6,642         79,777         12.01           Burnsville         2         4,005         45,280         11.31           Eagan         3         577         8,655         15.00           Meedodita Heights				,	
Fairmont         1         2,280         \$29,640         \$13.00           Worthington         1         2,004         44,088         22.00           District 7 Total         2         4,284         \$73,728         \$17,21           Montevideo         1         4,150         29,050         7.00           Redwood Falls         1         5,000         30,000         6.00           Willmar         2         11,400         92,910         8.15           District 8 Total         8         58,419         \$447,342         \$7.66           Metro East         Metro East         Metro East         S7.59           Arden Hills         1         6,642         79,777         12.01           Burnsville         2         4,005         45,280         11.31           Eagan         3         577         8,655         15.00           Metro East         1         10,175         91,575         9	District 6 Total	14			
Fairmont         1         2,280         \$29,640         \$13.00           Worthington         1         2,004         44,088         22.00           District 7 Total         2         4,284         \$73,728         \$17,21           Montevideo         1         4,150         29,050         7.00           Redwood Falls         1         5,000         30,000         6.00           Willmar         2         11,400         92,910         8.15           District 8 Total         8         58,419         \$447,342         \$7.66           Metro East         Metro East         Metro East         S7.59           Arden Hills         1         6,642         79,777         12.01           Burnsville         2         4,005         45,280         11.31           Eagan         3         577         8,655         15.00           Metro East         1         10,175         91,575         9					
Worthington         1         2,004         44,088         22.00           District 7 Total         2         4,284         \$73,728         \$17.21           District 7 Total         2         4,284         \$73,728         \$17.21           District 8         1         37,869         \$295,382         \$7.80           Montevideo         1         4,150         29,050         7.00           Redwood Falls         1         5,000         30,000         6.00           Willmar         2         11,400         92,910         8.15           District 8 Total         8         58,419         \$447,342         \$7.66           Metro East            \$447,342         \$7.66           Made Hills         1         6,642         79,777         12.01           Burnsville         2         4,005         45,280         11.31           Eagan         3         577         8,655         15.00           Mendota Heights         1         215         3,204         14.90           New Brighton         1         40         344         8.60           Oakdale         2         20,927         217,296			District 7		
District 7 Total         2         4,284         \$73,728         \$17.21           District 8           Hutchinson         4         37,869         \$295,382         \$7.80           Montevideo         1         4,150         29,050         7.00           Redwood Falls         1         5,000         30,000         6.00           Willmar         2         11,400         92,910         8.15           District 8 Total         8         58,419         \$447,342         \$7.66           Metro East           Arden Hills         1         6,642         79,777         12.01           Burnsville         2         4,005         45,280         11.31           Eagan         3         577         8,655         15.00           Mendota Heights         1         215         3,204         14.90           New Brighton         1         40         344         8.60           Oakdale         2         10,812         98,188         9.08           Roseville         1         110         1,430         13.00           South St. Paul         7         12,881         221,834         17.22	Fairmont	1	2,280	\$29,640	\$13.00
District 7 Total         2         4,284         \$73,728         \$17.21           District 8           Hutchinson         4         37,869         \$295,382         \$7.80           Montevideo         1         4,150         29,050         7.00           Redwood Falls         1         5,000         30,000         6.00           Willmar         2         11,400         92,910         8.15           District 8 Total         8         58,419         \$447,342         \$7.66           Metro East           Arden Hills         1         6,642         79,777         12.01           Burnsville         2         4,005         45,280         11.31           Eagan         3         577         8,655         15.00           Mendota Heights         1         215         3,204         14.90           New Brighton         1         40         344         8.60           Oakdale         2         10,812         98,188         9.08           Roseville         1         110         1,430         13.00           South St. Paul         7         12,881         221,834         17.22	Worthington	1	2,004	44,088	22.00
District 8Hutchinson437,869\$295,382\$7.80Montevideo14,15029,0507.00Redwood Falls15,00030,0006.00Willmar211,40092,9108.15District 8 Total858,419\$447,342\$7.66Metro EastArden Hills16,64279,77712.01Burnsville24,00545,28011.31Eagan35778,65515.00Mendota Heights12153,20414.90New Brighton1403448.60Oakdale210,81298,1889.08Rosemount220,927217,29610.38Roseville11101,43013.00South St. Paul712,881221,83417.22Metro East Total2676,954\$847,702\$11.02District 1 Total11144,121\$846,398\$5.87District 3 Total11104,367916,8038.78District 4 Total524,221296,94012.26Metro East Total26123,3681,368,54911.09District 6 Total1437,136449,48512.10District 7 Total24,28473,72817.21District 7 Total24,28473,72817.21 <th< td=""><td></td><td>2</td><td></td><td></td><td>\$17.21</td></th<>		2			\$17.21
Hutchinson         4         37,869         \$295,382         \$7.80           Montevideo         1         4,150         29,050         7.00           Redwood Falls         1         5,000         30,000         6.00           Willmar         2         11,400         92,910         8.15           District 8 Total         8         58,419         \$447,342         \$7.69           Arden Hills         1         6,642         79,777         12.01           Burnsville         2         4,005         45,280         11.31           Eagan         3         577         8,655         15.00           Maplewood         1         10,175         91,575         9.00           Mendota Heights         1         20,927         217,296         10.38           Rosemount         2         20,927         217,296         10.38           Rosewille         1         110         1,430         13.00           South St. Paul         7         12,881         221,834         17.22           Metro East Total         1         104,367         916,803         8.78           District T Total         11         104,367         916,803			· · · · · ·	-	
Montevideo         1         4,150         29,050         7.00           Redwood Falls         1         5,000         30,000         6.00           Willmar         2         11,400         92,910         8.15           District 8 Total         8         58,419         \$447,342         \$7.66           Metro East         Metro East         \$447,342         \$7.59           Arden Hills         1         6,642         79,777         12.01           Burnsville         2         4,005         45,280         11.31           Eagan         3         577         8,655         15.00           Maplewood         1         10,175         91,575         9.00           Mendota Heights         1         215         3,204         14.90           New Brighton         1         40         344         8.60           Oakdale         2         10,812         98,188         9.08           Roseville         1         110         1,430         13.00           South St. Paul         7         12,881         221,834         17.22           Metro East Total         11         144,121         \$846,398         \$5.87			District 8		
Montevideo         1         4,150         29,050         7.00           Redwood Falls         1         5,000         30,000         6.00           Willmar         2         11,400         92,910         8.15           District 8 Total         8         58,419         \$447,342         \$7.66           Metro East         ************************************	Hutchinson	4	37,869	\$295,382	\$7.80
Willmar         2         11,400         92,910         8.15           District 8 Total         8         58,419         \$447,342         \$7.66           Metro East           \$73,745         \$7.59           Arden Hills         1         6,642         79,777         12.01           Burnsville         2         4,005         45,280         11.31           Eagan         3         577         8,655         15.00           Maplewood         1         10,175         91,575         9.00           Mendota Heights         1         215         3,204         14.90           New Brighton         1         40         344         8.60           Oakdale         2         10,812         98,188         9.08           Rosemount         2         20,927         217,296         10.38           Roseville         1         110         1,430         13.00           South St. Paul         7         12,881         221,834         17.22           Metro East Total         26         76,954         \$846,398         \$5.87           District 1 Total         11         104,367         916,803         8.78     <	Montevideo	1	4,150		7.00
District 8 Total         8         58,419         \$447,342         \$7.66           Metro East            Apple Valley         4         9,720         \$73,745         \$7.59           Arden Hills         1         6,642         79,777         12.01           Burnsville         2         4,005         45,280         11.31           Eagan         3         577         8,655         15.00           Maplewood         1         10,175         91,575         9.00           Mendota Heights         1         215         3,204         14.90           New Brighton         1         40         344         8.60           Oakdale         2         10,812         98,188         9.08           Roserount         2         20,927         217,296         10.38           Roserount         2         20,927         217,296         10.38           Roserount         2         20,927         217,296         10.38           Roserount         2         26,857         7.50         St. Paul         1         110         1,430         13.00           South St. Paul         7         12,881         221,834         17	Redwood Falls	1	5,000	30,000	6.00
Metro East           Apple Valley         4         9,720         \$73,745         \$7.59           Arden Hills         1         6,642         79,777         12.01           Burnsville         2         4,005         45,280         11.31           Eagan         3         577         8,655         15.00           Maplewood         1         10,175         91,575         9.00           Mendota Heights         1         215         3,204         14.90           New Brighton         1         40         344         8.60           Oakdale         2         10,812         98,188         9.08           Rosemount         2         20,927         217,296         10.38           Roseville         1         110         1,430         13.00           South St. Paul         7         12,881         221,834         17.22           Metro East Total         26         76,954         \$847,702         \$11.02           District 1 Total         11         144,121         \$846,398         \$5.87           District 2 Total         3         283         5,857         20.69           District 3 Total         11         1	Willmar	2	11,400	92,910	8.15
Apple Valley         4         9,720         \$73,745         \$7.59           Arden Hills         1         6,642         79,777         12.01           Burnsville         2         4,005         45,280         11.31           Eagan         3         577         8,655         15.00           Maplewood         1         10,175         91,575         9.00           Mendota Heights         1         215         3,204         14.90           New Brighton         1         40         344         8.60           Oakdale         2         10,812         98,188         9.08           Rosemount         2         20,927         217,296         10.38           Roseville         1         110         1,430         13.00           South St. Paul         1         850         6,375         7.50           St. Paul         7         12,881         221,834         17.22           Metro East Total         11         144,121         \$846,398         \$5.87           District Total         3         283         5,857         20.69           District 3 Total         11         144,367         916,803         8.78 <td>District 8 Total</td> <td>8</td> <td>58,419</td> <td>\$447,342</td> <td>\$7.66</td>	District 8 Total	8	58,419	\$447,342	\$7.66
Apple Valley         4         9,720         \$73,745         \$7.59           Arden Hills         1         6,642         79,777         12.01           Burnsville         2         4,005         45,280         11.31           Eagan         3         577         8,655         15.00           Maplewood         1         10,175         91,575         9.00           Mendota Heights         1         215         3,204         14.90           New Brighton         1         40         344         8.60           Oakdale         2         10,812         98,188         9.08           Rosemount         2         20,927         217,296         10.38           Roseville         1         110         1,430         13.00           South St. Paul         1         850         6,375         7.50           St. Paul         7         12,881         221,834         17.22           Metro East Total         11         144,121         \$846,398         \$5.87           District Total         3         283         5,857         20.69           District 3 Total         11         144,367         916,803         8.78 <td></td> <td></td> <td></td> <td></td> <td></td>					
Arden Hills       1       6,642       79,777       12.01         Burnsville       2       4,005       45,280       11.31         Eagan       3       577       8,655       15.00         Maplewood       1       10,175       91,575       9.00         Mendota Heights       1       215       3,204       14.90         New Brighton       1       40       344       8.60         Oakdale       2       10,812       98,188       9.08         Rosemount       2       20,927       217,296       10.38         Roseville       1       110       1,430       13.00         South St. Paul       1       850       6,375       7.50         St. Paul       7       12,881       221,834       17.22         Metro East Total       26       76,954       \$847,702       \$11.02         District Totals         District 1 Total       11       104,367       916,803       8.78         District 3 Total       11       104,367       916,803       8.78         District 4 Total       5       24,221       296,940       12.26         Metro West Total       26			Metro East		
Burnsville         2         4,005         45,280         11.31           Eagan         3         577         8,655         15.00           Maplewood         1         10,175         91,575         9.00           Mendota Heights         1         215         3,204         14.90           New Brighton         1         40         344         8.60           Oakdale         2         10,812         98,188         9.08           Rosemount         2         20,927         217,296         10.38           Roseville         1         110         1,430         13.00           South St. Paul         1         850         6,375         7.50           St. Paul         7         12,881         221,834         17.22           Metro East Total         26         76,954         \$847,702         \$11.02           District 1 Total         11         144,121         \$846,398         \$5.87           District 2 Total         3         283         5,857         20.69           District 3 Total         11         104,367         916,803         8.78           District 4 Total         5         24,221         296,940         1		4	9,720	\$73,745	
Eagan         3         577         8,655         15.00           Maplewood         1         10,175         91,575         9.00           Mendota Heights         1         215         3,204         14.90           New Brighton         1         40         344         8.60           Oakdale         2         10,812         98,188         9.08           Rosemount         2         20,927         217,296         10.38           Roserount         2         20,927         217,296         10.38           Roserount         1         110         1,430         13.00           South St. Paul         1         850         6,375         7.50           St. Paul         7         12,881         221,834         17.22           Metro East Total         26         76,954         \$847,702         \$11.02           District 1 Total         11         144,121         \$846,398         \$5.87           District 2 Total         3         283         5,857         20.69           District 3 Total         11         104,367         916,803         8.78           District 4 Total         5         24,221         296,940				79,777	
Maplewood         1         10,175         91,575         9.00           Mendota Heights         1         215         3,204         14.90           New Brighton         1         40         344         8.60           Oakdale         2         10,812         98,188         9.08           Rosemount         2         20,927         217,296         10.38           Roseville         1         110         1,430         13.00           South St. Paul         1         850         6,375         7.50           St. Paul         7         12,881         221,834         17.22           Metro East Total         26         76,954         \$847,702         \$11.02           District 1 Total         11         144,121         \$846,398         \$5.87           District 2 Total         3         283         5,857         20.69           District 3 Total         11         104,367         916,803         8.78           District 4 Total         5         24,221         296,940         12.26           Metro West Total         26         123,368         1,368,549         11.09           District 6 Total         14         37,136         <					
Mendota Heights         1         215         3,204         14.90           New Brighton         1         40         344         8.60           Oakdale         2         10,812         98,188         9.08           Rosemount         2         20,927         217,296         10.38           Roseville         1         110         1,430         13.00           South St. Paul         1         850         6,375         7.50           St. Paul         7         12,881         221,834         17.22           Metro East Total         26         76,954         \$847,702         \$11.02           District 1 Total         11         144,121         \$846,398         \$5.87           District 2 Total         3         283         5,857         20.69           District 3 Total         11         104,367         916,803         8.78           District 4 Total         5         24,221         296,940         12.26           Metro West Total         26         123,368         1,368,549         11.09           District 6 Total         14         37,136         449,485         12.10           District 7 Total         2         4,284	-				
New Brighton         1         40         344         8.60           Oakdale         2         10,812         98,188         9.08           Rosemount         2         20,927         217,296         10.38           Roseville         1         110         1,430         13.00           South St. Paul         1         850         6,375         7.50           St. Paul         7         12,881         221,834         17.22           Metro East Total         26         76,954         \$847,702         \$11.02           District 1 Total         11         144,121         \$846,398         \$5.87           District 2 Total         3         283         5,857         20.69           District 3 Total         11         104,367         916,803         8.78           District 4 Total         5         24,221         296,940         12.26           Metro West Total         26         123,368         1,368,549         11.09           District 6 Total         14         37,136         449,485         12.10           District 7 Total         2         4,284         73,728         17.21           District 7 Total         8         58,419 </td <td>-</td> <td></td> <td></td> <td></td> <td></td>	-				
Oakdale         2         10,812         98,188         9.08           Rosemount         2         20,927         217,296         10.38           Roseville         1         110         1,430         13.00           South St. Paul         1         850         6,375         7.50           St. Paul         7         12,881         221,834         17.22           Metro East Total         26         76,954         \$847,702         \$11.02           District Totals           District Totals           District 1 Total         11         144,121         \$846,398         \$5.87           District 2 Total         3         283         5,857         20.69           District 3 Total         11         104,367         916,803         8.78           District 4 Total         5         24,221         296,940         12.26           Metro West Total         26         123,368         1,368,549         11.09           District 6 Total         14         37,136         449,485         12.10           District 7 Total         2         4,284         73,728         17.21           District 8 Total         8         58,419		-			
Rosemount         2         20,927         217,296         10.38           Roseville         1         110         1,430         13.00           South St. Paul         1         850         6,375         7.50           St. Paul         7         12,881         221,834         17.22           Metro East Total         26         76,954         \$847,702         \$11.02           District 1 Total         11         144,121         \$846,398         \$5.87           District 2 Total         3         283         5,857         20.69           District 3 Total         11         104,367         916,803         8.78           District 4 Total         5         24,221         296,940         12.26           Metro West Total         26         123,368         1,368,549         11.09           District 6 Total         14         37,136         449,485         12.10           District 7 Total         2         4,284         73,728         17.21           District 8 Total         8         58,419         447,342         7.66           Metro East Total         26         76,954         847,702         11.02	3				
Roseville         1         110         1,430         13.00           South St. Paul         1         850         6,375         7.50           St. Paul         7         12,881         221,834         17.22           Metro East Total         26         76,954         \$847,702         \$11.02           District 1 Total         11         144,121         \$846,398         \$5.87           District 2 Total         3         283         5,857         20.69           District 3 Total         11         104,367         916,803         8.78           District 4 Total         5         24,221         296,940         12.26           Metro West Total         26         123,368         1,368,549         11.09           District 6 Total         14         37,136         449,485         12.10           District 7 Total         2         4,284         73,728         17.21           District 8 Total         8         58,419         447,342         7.66           Metro East Total         26         76,954         847,702         11.02			,		
South St. Paul         1         850         6,375         7.50           St. Paul         7         12,881         221,834         17.22           Metro East Total         26         76,954         \$847,702         \$11.02           District Total         11         144,121         \$846,398         \$5.87           District 2 Total         3         283         5,857         20.69           District 3 Total         11         104,367         916,803         8.78           District 4 Total         5         24,221         296,940         12.26           Metro West Total         26         123,368         1,368,549         11.09           District 6 Total         14         37,136         449,485         12.10           District 7 Total         2         4,284         73,728         17.21           District 8 Total         8         58,419         447,342         7.66           Metro East Total         26         76,954         847,702         11.02					
St. Paul       7       12,881       221,834       17.22         Metro East Total       26       76,954       \$847,702       \$11.02         District Totals       District Totals       0       0       0       0         District 2 Total       11       144,121       \$846,398       \$5.87       0.69       0         District 2 Total       3       283       5,857       20.69       0       0       0.69<					
Metro East Total2676,954\$847,702\$11.02District TotalsDistrict 1 Total11144,121\$846,398\$5.87District 2 Total32835,85720.69District 3 Total11104,367916,8038.78District 4 Total524,221296,94012.26Metro West Total26123,3681,368,54911.09District 6 Total1437,136449,48512.10District 7 Total24,28473,72817.21District 8 Total858,419447,3427.66Metro East Total2676,954847,70211.02		-			
District Totals           District 1 Total         11         144,121         \$846,398         \$5.87           District 2 Total         3         283         5,857         20.69           District 3 Total         11         104,367         916,803         8.78           District 4 Total         5         24,221         296,940         12.26           Metro West Total         26         123,368         1,368,549         11.09           District 6 Total         14         37,136         449,485         12.10           District 7 Total         2         4,284         73,728         17.21           District 8 Total         8         58,419         447,342         7.66           Metro East Total         26         76,954         847,702         11.02					
District 1 Total11144,121\$846,398\$5.87District 2 Total32835,85720.69District 3 Total11104,367916,8038.78District 4 Total524,221296,94012.26Metro West Total26123,3681,368,54911.09District 7 Total1437,136449,48512.10District 8 Total858,419447,3427.66Metro East Total2676,954847,70211.02	Metro East Total	26	76,954	\$847,702	\$11.02
District 1 Total11144,121\$846,398\$5.87District 2 Total32835,85720.69District 3 Total11104,367916,8038.78District 4 Total524,221296,94012.26Metro West Total26123,3681,368,54911.09District 7 Total1437,136449,48512.10District 8 Total858,419447,3427.66Metro East Total2676,954847,70211.02					
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District 4 Total524,221296,94012.26Metro West Total26123,3681,368,54911.09District 6 Total1437,136449,48512.10District 7 Total24,28473,72817.21District 8 Total858,419447,3427.66Metro East Total2676,954847,70211.02					
Metro West Total26123,3681,368,54911.09District 6 Total1437,136449,48512.10District 7 Total24,28473,72817.21District 8 Total858,419447,3427.66Metro East Total2676,954847,70211.02					
District 6 Total         14         37,136         449,485         12.10           District 7 Total         2         4,284         73,728         17.21           District 8 Total         8         58,419         447,342         7.66           Metro East Total         26         76,954         847,702         11.02					
District 7 Total         2         4,284         73,728         17.21           District 8 Total         8         58,419         447,342         7.66           Metro East Total         26         76,954         847,702         11.02					
District 8 Total         8         58,419         447,342         7.66           Metro East Total         26         76,954         847,702         11.02				· ·	
Metro East Total         26         76,954         847,702         11.02					
STATE TOTAL 106 573,153 \$5,252,804 \$9.16	Metro East Total	26	76,954	847,702	11.02
STATE TUTAL 100 573,153 \$5,252,804 \$9.16	STATE TOTAL	100	E70 4 E0	¢E 0E0 004	¢0.40
	STATE TOTAL	106	573,153	<b>⊅</b> ⊃,∠⊃2,8U4	\$9.16

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# **CLASS 5 AGGREGATE BASE #2211**



				YEARLY		5 YEAR
				AVERAGE	PRICE	AVERAGE
NEEDS	NO. OF		TOTAL	CONTRACT	USED IN	CONTRACT
YEAR	CITIES	QUANTITY	COST	PRICE	NEEDS	PRICE
1989	70	648,988	\$3,385,938	\$5.22	\$5.75	\$5.31
1990	68	715,922	3,696,421	5.16	5.50	5.34
1991	70	553,874	3,368,664	6.08	6.00	5.65
1992	69	650,835	3,525,629	5.42	5.75	5.52
1993	60	621,247	3,807,092	6.13	6.00	5.60
1994	70	660,174	3,921,230	5.94	6.00	5.75
1995	61	491,608	3,060,585	6.23	6.00	5.96
1996	68	593,314	3,733,431	6.29	6.20	6.00
1998	67	470,633	3,118,365	6.63	6.50	6.24
1999					6.70	
2000	58	680,735	4,498,220	6.61	6.70	6.44
2001					6.70	
2002	52	527,592	3,877,688	7.35	7.05	6.86
2003					7.30	
2004	58	573,153	5,252,804	9.16		7.65

#### SUBCOMMITTEE'S RECOMMENDED PRICE FOR THE 2004 NEEDS STUDY IS \$7.65 PER TON

Note: There was no Unit Price Study in years 1997,1999, 2001 and 2003. Therefore, we used the total of the past five year's costs divided by the total of the past five year's quantities for the 5-Year Average.

## MSAS UNIT PRICE STUDY BITUMINOUS

CITY	No. Of	TOTAL	TOTAL	AVERAGE
NAME	Projects	QTY.	COST	UNIT PRICE
		District 1		
Duluth	7	35,166	\$1,033,885	\$29.40
Grand Rapids	2	4,124	166,363	40.34
Hermantown	1	528	14,124	26.75
Hibbing	1	4,245	145,915	34.37
District 1 Total	11	44,063	\$1,360,287	\$30.87
		•		
		District 2		
East Grand Forks	1	611	\$32,857	\$53.78
Thief River Falls	2	10,920	307,081	28.12
District 2 Total	3	11,531	\$339,938	\$29.48
		District 3		
Brainerd	2	11,699	\$352,451	\$30.13
Elk River	1	530	29,680	56.00
Little Falls	3	3,166	95,776	30.25
Monticello	2	4,400	162,950	37.03
Otsego	2	11,200	349,351	31.19
Sartell	1	7,821	237,678	30.39
St. Cloud	2	15,747	558,576	35.47
St. Michael	1	3,726	108,054	29.00
Waite Park	1	10,648	373,660	35.09
District 3 Total	15	68,937	\$2,268,176	\$32.90
		District 4		
Alexandria	6	13,265	\$320,150	\$24.13
Moorhead	2	17,814	700,385	39.32
District 4 Total	8	31,079	\$1,020,535	\$32.84
		Metro West	<b>•</b> • • • • • • •	<b>*</b> • • • • •
Andover	2	380	\$13,479	\$35.47
Anoka	2	1,987	61,512	30.96
Bloomington	2	13,208	578,770	43.82
Brooklyn Park	2	14,570	471,403	32.35
Champlin	4	9,405	352,643	37.50
Chaska	2	5,855	179,690	30.69
Coon Rapids	3	7,969	277,933	34.88
East Bethel	1	1,550	56,982	36.76
Ham Lake	1	1,182	40,053	33.89
Hopkins	2	4,161	156,054	37.50
Lino Lakes	1	4,050	130,383	32.19
Minneapolis	2	23,671	869,946	36.75
Minnetonka	1	14,667	362,201	24.69
Plymouth	1	575	24,523	42.65
Savage	1	11,400	354,360	31.08
Shorewood	1	20,930	725,944	34.68
St. Francis	1	1,157	26,059	22.51
Metro West Total	29	136,717	\$4,681,932	\$34.25

## **MSAS UNIT PRICE STUDY** BITUMINOUS

CITY	No. Of	TOTAL	TOTAL	AVERAGE
NAME	Projects	QTY.	COST	UNIT PRICE
	Ι	District 6		
Albert Lea	1	15	\$1,980	\$132.00
Austin	2	262	12,816	48.92
Northfield	2	3,906	119,495	30.59
Owatonna	1	10	526	52.60
Red Wing	2	2,110	93,851	44.48
Rochester	3	7,659	284,021	37.08
Winona	2	3,547	147,130	41.48
District 6 Total	13	17,509	\$659,818	\$37.68

		District 7		
Fairmont	1	7,270	\$312,784	\$43.02
Worthington	2	2,670	121,151	45.37
District 7 Total	3	9,940	\$433,935	\$43.66

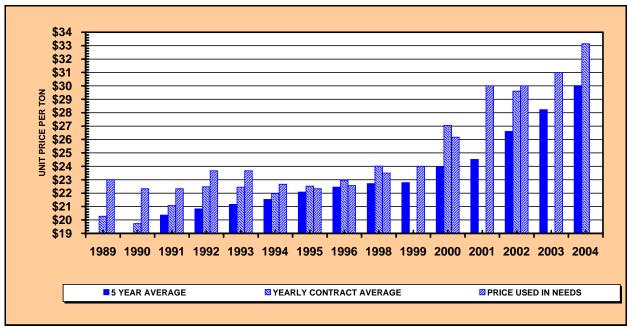
		District 8		
Hutchinson	4	14,951	\$456,526	\$30.53
Marshall	7	7,643	257,687	33.72
Montevideo	1	1,650	49,432	29.96
Redwood Falls	1	2,650	100,688	38.00
Willmar	3	13,360	331,385	24.80
District 8 Total	3	40,254	\$1,195,717	\$29.70

		Metro East		
Apple Valley	7	9,720	\$304,137	\$31.29
Arden Hills	1	2,816	94,074	33.40
Burnsville	3	15,514	521,455	33.61
Eagan	3	5,422	195,343	36.03
Maplewood	1	2,100	70,900	33.76
Mendota Heights	1	90	11,153	123.93
New Brighton	1	1,380	43,329	31.40
Oakdale	2	13,875	437,041	31.50
Rosemount	2	12,908	440,015	34.09
Roseville	2	3,063	105,429	34.42
South St. Paul	3	4,913	147,214	29.96
St. Paul	6	27,775	899,531	32.39
Metro East Total	32	99,576	\$3,269,621	\$32.84

	Di	istrict Totals		
District 1 Total	11	44,063	\$1,360,287	\$30.87
District 2 Total	3	11,531	339,938	29.48
District 3 Total	15	68,937	2,268,176	32.90
District 4 Total	8	31,079	1,020,535	32.84
Metro West Total	29	136,717	4,681,932	34.25
District 6 Total	13	17,509	659,818	37.68
District 7 Total	3	9,940	433,935	43.66
District 8 Total	3	40,254	1,195,717	29.70
Metro East Total	32	99,576	3,269,621	32.84
STATE TOTAL	117	459,606	\$15,229,960	\$33.14

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# **BITUMINOUS**



NEEDS	NO. OF		TOTAL	YEARLY AVERAGE CONTRACT	PRICE USED IN	5 YEAR AVERAGE CONTRACT
YEAR	CITIES*	QUANTITY	COST	PRICE	NEEDS	PRICE
1989	70	631,506 <sup>1</sup>	12,802,798 <sup>2</sup>	\$20.27 <sup>3</sup>	\$23.00 <sup>4</sup>	
1990	68	599,083 <sup>1</sup>	11,821,216 <sup>2</sup>	19.73 <sup>3</sup>	22.33 <sup>₄</sup>	
1991	70	613,163 <sup>1</sup>	12,925,191 <sup>2</sup>	21.08 <sup>3</sup>	22.33 <sup>₄</sup>	20.37 5
1992	69	519,900 <sup>1</sup>	11,685,503 <sup>2</sup>	22.48 <sup>3</sup>	23.67 4	20.83 5
1993	66	598,566 <sup>1</sup>	13,434,379 <sup>2</sup>	22.44 <sup>3</sup>	23.67 4	<b>21.16</b> <sup>₅</sup>
1994	70	692,066 <sup>1</sup>	15,208,681 <sup>2</sup>	21.98 <sup>3</sup>	22.67 4	<b>21.53</b> <sup>₅</sup>
1995	61	601,173 <sup>1</sup>	13,535,386 <sup>2</sup>	22.51 <sup>3</sup>	22.33 4	22.08 5
1996	68	540,860 <sup>1</sup>	12,419,802 <sup>2</sup>	22.96 <sup>3</sup>	22.57 4	22.45 5
1998	67	505,372 <sup>1</sup>	12,132,901 <sup>2</sup>	24.01 <sup>3</sup>	23.50 <sup>₄</sup>	<b>22.71</b> <sup>⁵</sup>
1999			2	0.00	24.00 4	22.78 <sup>⁵</sup>
2000	51	434,005 1	11,739,821 <sup>2</sup>	27.05 <sup>3</sup>	<b>26.17</b> <sup>₄</sup>	23.94 5
2001			2	0.00	30.00 4	24.52 5
2002	50	371,198 1	10,989,206 <sup>2</sup>	29.60 <sup>3</sup>	30.00 4	26.60 5
2003					31.00 <sup>4</sup>	28.23 5
2004	60	459,606	15,229,960	33.14		30.01

#### SUBCOMMITTEE'S RECOMMENDED PRICE FOR THE 2004 NEEDS STUDY IS

\$33.00 PER TON

Note: There was no Unit Price Study in years 1997,1999, 2001 and 2003. Therefore, we used the total of the past five year's costs divided by the total of the past five year's quantities for the 5-Year Average.

- \* Used highest number of cities from the **BITUMINOUS PAST YEARS COMBINED** pages
- <sup>1</sup> Combined the quantities from the four previous tables together.
- <sup>2</sup> Combined the total costs from the four previous tables together.
- <sup>3</sup> Total Costs divided by quantity.
- <sup>4</sup> Average of the Price Used in Needs from the four previous tables.
- <sup>5</sup> Used past 5 year's costs divided by the past 5 year's quantity.

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## **BITUMINOUS - PAST YEARS COMBINED**

In 2001, the Screening Board decided to combine all bituminous and use a single unit price. This woorksheet combines all bituminous types (2331, 2341 and 2350, 2361) from past years and combines them together.

### **BITUMINOUS BASE OR SURFACE #2331**

				YEARLY AVERAGE	PRICE	5 YEAR AVERAGE
NEEDS YEAR	NO. OF CITIES	QUANTITY	TOTAL COST	CONTRACT PRICE	USED IN NEEDS	CONTRACT PRICE
1989	70	316,333	\$5,793,245	\$18.31	\$21.00	\$19.87
1990	68	313,022	5,517,034	17.63	20.00	19.19
1991	70	349,058	6,952,316	19.92	20.00	19.09
1992	69	358,244	7,739,246	21.60	22.00	19.48
1993	60	243,491	4,791,236	19.68	22.00	19.43
1994	70	265,414	5,339,712	20.12	21.00	19.79
1995	61	190,763	3,791,009	19.87	20.00	20.24
1996	68	188,898	4,000,168	21.18	20.50	20.49
1998	67	183,962	4,197,677	22.82	21.50	20.73
1999					22.00	
2000	48	152,926	3,954,123	25.86	25.50	22.43
2001					30.00	
2002	29	60,040	1,726,266	28.75	30.00	25.81
2003						27.30

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### **BITUMINOUS SURFACE #2341**

				YEARLY		5 YEAR
				AVERAGE	PRICE	AVERAGE
NEEDS	NO. OF		TOTAL	CONTRACT	<b>USED IN</b>	CONTRACT
YEAR	CITIES	QUANTITY	COST	PRICE	NEEDS	PRICE
1989	58	144,986	\$3,119,592	\$21.52	\$24.00	\$23.14
1990	44	127,267	2,707,906	21.28	23.50	22.83
1991	48	125,102	2,804,228	22.42	23.50	22.31
1992	31	77,735	1,873,836	24.11	24.50	22.48
1993	66	160,587	3,825,967	23.82	24.50	22.63
1994	52	201,120	4,584,015	22.79	23.50	22.88
1995	58	190,983	4,448,398	23.29	23.50	23.29
1996	65	169,911	4,023,193	23.68	23.60	23.54
1998	60	158,320	3,895,038	24.60	24.50	23.64
1999					25.00	
2000	51	137,663	3,792,496	27.55	26.50	24.78
2001					30.00	
2002	28	63,693	1,879,624	29.51	30.00	27.22
2003						

# **BITUMINOUS - PAST YEARS COMBINED**

				YEARLY		5 YEAR
				AVERAGE	PRICE	AVERAGE
NEEDS	NO. OF		TOTAL	CONTRACT	USED IN	CONTRACT
YEAR	CITIES*	QUANTITY	COST	PRICE	NEEDS	PRICE
1989	58	144,986	\$3,119,592	\$21.52	\$24.00	\$23.14
1990	44	127,267	2,707,906	21.28	23.50	22.83
1991	48	125,102	2,804,228	22.42	23.50	22.31
1992	31	77,735	1,873,836	24.11	24.50	22.48
1993	66	160,587	3,825,967	23.82	24.50	22.63
1994	52	201,120	4,584,015	22.79	23.50	22.88
1995	58	190,983	4,448,398	23.29	23.50	23.29
1996	65	169,911	4,023,193	23.68	23.60	23.54
1998	60	158,320	3,895,038	24.60	24.50	23.64
1999					25.00	
2000	51	137,663	3,792,496	27.55	26.50	24.78
2001					30.00	
2002	50	242,437	7,175,392	29.60	30.00	27.25
2003						28.57

### BITUMINOUS SURFACE #2341 & 2350

### **BITUMINOUS SURFACE #2361**

				YEARLY		5 YEAR
				AVERAGE	PRICE	AVERAGE
NEEDS	NO. OF		TOTAL	CONTRACT	USED IN	CONTRACT
YEAR	CITIES	QUANTITY	COST	PRICE	NEEDS	PRICE
1989	17	25,201	\$770,369	\$30.57	\$34.00	\$31.81
1990	14	31,527	888,370	28.18	33.00	31.18
1991	13	13,901	364,419	26.22	30.00	29.79
1992	3	6,186	198,585	32.10	32.00	29.41
1993	13	33,901	991,209	29.14	32.00	29.24
1994	11	24,412	700,939	28.71	30.00	28.87
1995	8	28,444	847,581	29.80	30.00	29.19
1996	7	12,140	373,248	30.75	30.10	30.10
1998	5	4,770	145,148	30.43	30.50	29.77
1999					31.50	
2000	4	5,753	200,706	34.89	31.50	31.47
2001					30.00	
2002	3	5,028	207,923	41.35	None	35.56
2003						38.12

### **ALL BITUMINOUS COMBINED**

				YEARLY	DDIOC	5 YEAR
NEEDS			TOTAL	AVERAGE		AVERAGE
	NO. OF		TOTAL	CONTRACT	USED IN	CONTRACT
YEAR	CITIES*	QUANTITY	COST	PRICE	NEEDS	PRICE
1989	70	631,506 <sup>1</sup>	12,802,798 <sup>2</sup>	\$20.27 <sup>3</sup>	\$23.00 <sup>4</sup>	
1990	68	599,083 <sup>1</sup>	11,821,216 <sup>2</sup>	19.73 <sup>³</sup>	22.33 4	
1991	70	613,163 <sup>1</sup>	12,925,191 <sup>2</sup>	21.08 <sup>3</sup>	22.33 4	20.37 5
1992	69	519,900 <sup>1</sup>	11,685,503 <sup>2</sup>	22.48 <sup>3</sup>	23.67 4	20.83 5
1993	66	598,566 <sup>1</sup>	13,434,379 <sup>2</sup>	22.44 <sup>3</sup>	23.67 4	21.16 <sup>₅</sup>
1994	70	692,066 <sup>1</sup>	15,208,681 <sup>2</sup>	21.98 <sup>3</sup>	22.67 4	21.53 <sup>₅</sup>
1995	61	601,173 <sup>1</sup>	13,535,386 <sup>2</sup>	22.51 <sup>3</sup>	22.33 4	22.08 <sup>⁵</sup>
1996	68	540,860 <sup>1</sup>	12,419,802 <sup>2</sup>	22.96 <sup>3</sup>	22.57 4	22.45 <sup>⁵</sup>
1998	67	505,372 <sup>1</sup>	12,132,901 <sup>2</sup>	24.01 <sup>3</sup>	23.50 4	22.71 <sup>₅</sup>
1999					24.00 4	22.78 <sup>₅</sup>
2000	51	434,005 <sup>1</sup>	11,739,821 <sup>2</sup>	27.05 <sup>3</sup>	26.17 4	<b>23.94</b> <sup>₅</sup>
2001					30.00 4	<b>24.52</b> <sup>⁵</sup>
2002	50	371,198 1	10,989,206 <sup>2</sup>	29.60 <sup>3</sup>	30.00 4	26.60 5
2003					31.00	28.23 5
2004						

\* Used highest number of cities from the **BITUMINOUS - PAST YEARS COMBINED** pages

<sup>1</sup> Combined the quantities from the four previous tables together. <sup>2</sup> Combined the total costs from the four previous tables together.

<sup>3</sup> Total Costs divided by quantity.
 <sup>4</sup> Average of the Price Used in Needs from the four previous tables.
 <sup>5</sup> Used past 5 year's costs divided by the past 5 year's quantity.

## MSAS UNIT PRICE STUDY CURB AND GUTTER CONSTRUCTION - LIN. FT.

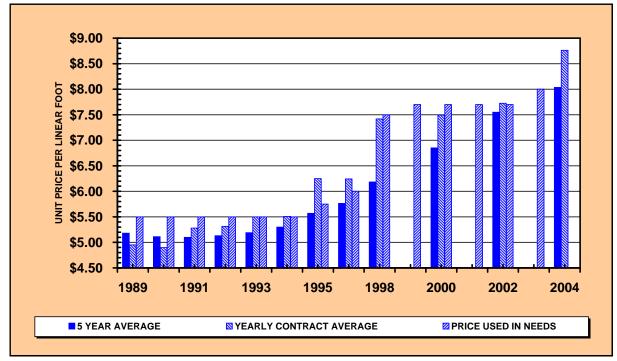
	D COTTE			
CITY	No. Of	TOTAL	TOTAL	AVERAGE
NAME	Projects	QTY.	COST	UNIT PRICE
		District 1		
Duluth	6	45,556	\$417,323	\$9.16
Grand Rapids	2	6,215	45,549	7.33
Hermantown	1	372	6,696	18.00
Hibbing	1	5,258	42,064	8.00
Virginia	1	26,878	236,927	8.81
District 1 Total	11	84,279	\$748,559	\$8.88
		,	<i>•••••••••••</i>	
		District 2		
East Grand Forks	1	3,758	\$43,367	\$11.54
Thief River Falls	2	1,260	12,600	10.00
District 2 Total	3	5,018	\$55,967	\$11.15
		District 3		
Brainerd	2	14,012	\$112,748	\$8.05
Elk River	1	1,345	14,795	11.00
Little Falls	3	5,540	44,633	8.06
Monticello	2	3,285	39,420	12.00
Otsego	2	15,200	106,400	7.00
Sartell	1	10,635	74,445	7.00
St. Cloud	1	15,724	105,178	6.69
St. Michael	1	9,159	65,584	7.16
Waite Park	1	9	119	13.20
District 3 Total	14	74,909	\$563,322	\$7.52
		District 4		
Alexandria	6	4,807	\$63,168	\$13.14
Moorhead	3	28,740	304,935	10.61
District 4 Total	9	33,547	\$368,103	\$10.97
		Matra Wast		
Andover	2	Metro West 696	\$7,342	\$10.55
	2		. ,	
Anoka		4,290	30,674	7.15
Bloomington	2	13,242	111,890	8.45
Brooklyn Park	2	17,992	131,217	7.29
Champlin	4	6,262	55,957	8.94
Chaska	2	7,960	73,180	9.19
Coon Rapids	3	4,864	54,067	11.12
East Bethel	1	3,465	24,775	7.15
Ham Lake	1	2,560	18,944	7.40
Hopkins	1	6,177	61,770	10.00
Lino Lakes	1	10,540	75,888	7.20
Minneapolis	2	13,542	173,879	12.84
Minnetonka	1	857	11,227	13.10
Savage	1			
-	1	11,100	83,250	7.50
Shorewood	1 1	11,100 430	6,880	16.00
-	1	11,100		

## MSAS UNIT PRICE STUDY CURB AND GUTTER CONSTRUCTION - LIN. FT.

		TOTAL		
CITY	No. Of	TOTAL	TOTAL	AVERAGE
NAME	Projects	QTY.	COST	UNIT PRICE
		District 6		
Albert Lea	1	4,952	\$49,090	\$9.91
Austin	1	200	4,212	21.06
Northfield	2	8,789	65,158	7.41
Owatonna	2	181	1,810	10.00
Red Wing	2	1,455	18,105	12.44
Rochester	3	12,987	122,023	9.40
Winona	2	4,067	34,325	8.44
District 6 Total	13	32,631	\$294,724	\$9.03
		District 7		
Fairmont	1	4,560	\$38,760	\$8.50
Worthington	1	2,372	22,534	9.50
District 7 Total	2	6,932	\$61,294	\$8.84
		District 8		
Hutchinson	4	20,285	\$141,014	\$6.95
Marshall	2	220	3,960	18.00
Montevideo	1	1,850	13,690	7.40
Redwood Falls	1	3,002	29,270	9.75
Willmar	3	2,085	19,753	9.47
District 8 Total	11	27,442	\$207,687	\$7.57
		Metro East		
Apple Valley	7	11,220	\$115,540	\$10.30
Arden Hills	1	8,411	63,072	7.50
Burnsville	3	7,420	77,489	10.44
Eagan	2	3,512	38,042	10.83
Maplewood	1	6,755	57,353	8.49
New Brighton	1	1,200	10,800	9.00
Oakdale	2	16,750	142,063	8.48
Rosemount	2	14,085	118,219	8.39
Roseville	2	590	6,195	10.50
South St. Paul	3	101	1,515	15.00
St. Paul	6	27,715	241,675	8.72
Metro East Total	30	97,759	\$871,961	\$8.92
		· · · ·	· · · ·	
		District Totals		
District 1 Total	11	84,279	\$748,559	\$8.88
District 2 Total	3	5,018	55,967	11.15
District 3 Total	14	74,909	563,322	7.52
District 4 Total	9	33,547	368,103	10.97
Metro West Total	27	106,615	938,594	8.80
District 6 Total	13	32,631	294,724	9.03
District 7 Total	2	6,932	61,294	8.84
District 8 Total	11	27,442	207,687	7.57
Metro East Total	30	97,759	871,961	8.92
				0.02
STATE TOTAL	120	469,131	\$4,110,211	\$8.76

N:\MSAS\EXCEL\UNIT PRICE\UNIT PRICE BREAK OUT.XLS C & G CONST.

# **CURB AND GUTTER CONSTRUCTION**



				YEARLY AVERAGE	PRICE	5 YEAR AVERAGE
NEEDS	NO. OF		TOTAL	CONTRACT	USED IN	CONTRACT
YEAR	CITIES	QUANTITY	COST	PRICE	NEEDS	PRICE
1989	73	606,413	\$3,002,995	\$4.95	\$5.50	\$5.18
1990	57	603,356	2,954,409	4.90	5.50	5.11
1991	67	559,342	2,952,849	5.28	5.50	5.10
1992	68	523,717	2,783,163	5.31	5.50	5.13
1993	69	515,687	2,836,644	5.50	5.50	5.19
1994	70	460,898	2,538,790	5.51	5.50	5.30
1995	64	528,679	3,303,027	6.25	5.75	5.57
1996	72	453,022	2,828,565	6.24	6.00	5.76
1998	64	347,973	2,581,523	7.42	7.50	6.18
1999					7.70	
2000	55	418,211	3,133,900	7.49	7.70	6.85
2001					7.70	
2002	50	363,497	2,807,345	7.72	7.70	7.55
2003					8.00	
2004	59	469,131	4,110,211	8.76		8.04

#### SUBCOMMITTEE'S RECOMMENDED PRICE FOR THE 2004 NEEDS STUDY IS \$8.25 PER LIN. FT.

Note: There was no Unit Price Study in years 1997,1999, 2001 and 2003. Therefore, we used the total or the past five year's costs divided by the total of the past five year's quantities for the 5-Year Average.

## MSAS UNIT PRICE STUDY SIDEWALK CONSTRUCTION - SQUARE YARD

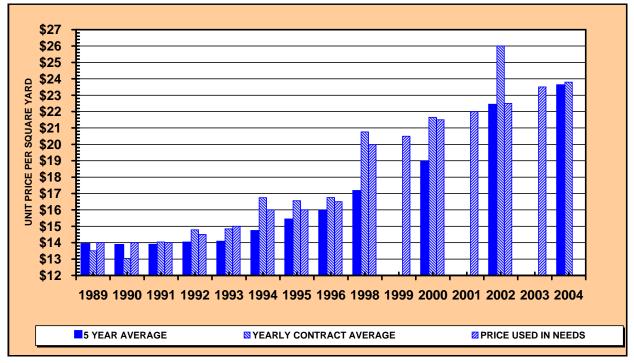
OIDENA				
CITY	No. Of	TOTAL	TOTAL	AVERAGE
NAME	Projects	QTY.	COST	UNIT PRICE
		District 1		
Duluth	4	12,111	\$283,641	\$23.42
Grand Rapids	2	1,683	39,570	23.51
Hibbing	1	1,353	31,668	23.40
Virginia	1	13,893	287,496	20.69
District 1 Total	8	29,040	\$642,375	\$22.12
	-		<i>+,</i>	¥
		District 2		
Thief River Falls	1	28	\$750	\$27.00
District 2 Total	1	28	\$750	\$27.00
	•		<i></i>	+=
		District 3		
Brainerd	2	10,721	\$207,374	\$19.34
Elk River	1	114	3,090	27.00
Little Falls	3	3,771	79,269	21.02
St. Cloud	2	7,788	147,808	18.98
Waite Park	1	2,267	43,393	19.14
District 3 Total	9	24,661	\$480,935	\$19.50
		District 4		
Alexandria	4	91	\$3,575	\$39.14
Moorhead	3	1,752	65,531	37.41
District 4 Total	7	1,843	\$69,106	\$37.50
		•	· ·	
		Metro West		
Andover	1	150	\$3,551	\$23.67
Anoka	2	919	19,853	21.60
Bloomington	1	6,702	214,425	31.99
Brooklyn Park	2	6,959	128,676	18.49
Champlin	2	2,174	39,624	18.23
Chaska	2	647	17,460	27.00
Coon Rapids	3	1,065	29,330	27.54
Hopkins	2	1,818	48,455	26.66
Minneapolis	2	8,417	239,356	28.44
Savage	1	3,080	67,255	21.84
Shorewood	1	169	6,232	36.90
St. Francis	1	628	13,493	21.49
Metro West Total	20	32,727	\$827,709	\$25.29
		District 6		
Albert Lea	1	12	\$523	\$42.75
Austin	1	350	10,910	31.17
Northfield	2	733	16,488	22.50
Owatonna	2	1,453	30,148	20.74
Red Wing	2	59	2,064	35.05
Rochester	3	4,343	116,607	26.85
District 6 Total	11	6,951	\$176,738	\$25.43

## MSAS UNIT PRICE STUDY SIDEWALK CONSTRUCTION - SQUARE YARD

OIDENA				
CITY	No. Of	TOTAL	TOTAL	AVERAGE
NAME	Projects	QTY.	COST	UNIT PRICE
	-			
		District 7		
Fairmont	1	2,131	\$62,332	\$29.25
Wothington	1	38	2,197	58.50
District 7 Total	2	2,169	\$64,529	\$29.76
			· · · · · · · · · · · · · · · · · · ·	
		District 8		
Hutchinson	4	4,807	\$100,631	\$20.94
Marshall	2	170	8,404	49.50
Montevideo	1	27	784	28.80
Redwood Falls	1	9	560	63.00
Willmar	2	747	17,136	22.95
District 8 Total	10	5,759	\$127,515	\$22.14
		Metro East		
AppleValley	7	188	\$8,150	\$43.40
Burnsville	2	1,309	33,628	25.69
Eagan	2	2,114	52,322	24.75
Maplewood	1	989	26,715	27.00
New Brighton	1	640	17,561	27.44
Oakdale	2	156	4,150	26.68
Rosemount	2	4,361	111,799	25.64
Roseville	2	3	105	31.50
South St. Paul	1	19	936	49.26
St. Paul	7	10,504	292,531	27.85
Metro East Total	27	20,283	\$547,897	\$27.01
		District Totals	• • • • • • • • • •	
District 1 Total	8	29,040	\$642,375	\$22.12
District 2 Total	1	28	750	27.00
District 3 Total	9	24,661	480,935	19.50
District 4 Total	7	1,843	69,106	37.50
Metro West Total	20	32,727	827,709	25.29
District 6 Total	11	6,951	176,738	25.43
District 7 Total	2	2,169	64,529	29.76
District 8 Total	10	5,759	127,515	22.14
Metro East Total	27	20,283	547,897	27.01
STATE TOTAL	95	123,460	\$2,937,553	\$23.79
	90	123,400	φ2,337,333	<b>ΨΖΟ.19</b>

N:\MSAS\EXCEL\UNIT PRICE\UNIT PRICE BREAK OUT.XLS SIDEWALK CONST.

# **SIDEWALK CONSTRUCTION #2521**



				YEARLY		5 YEAR
				AVERAGE	PRICE	AVERAGE
NEEDS	NO. OF		TOTAL	CONTRACT	USED IN	CONTRACT
YEAR	CITIES	QUANTITY	COST	PRICE	NEEDS	PRICE
1989	62	159,205	\$2,150,360	\$13.51	\$14.00	\$13.90
1990	54	125,748	1,639,735	13.04	14.00	13.85
1991	60	179,115	2,514,996	14.04	14.00	13.86
1992	62	141,946	2,097,863	14.78	14.50	13.99
1993	55	119,082	1,767,834	14.85	15.00	14.04
1994	56	89,662	1,501,608	16.75	16.00	14.69
1995	49	134,724	2,230,974	16.56	16.00	15.39
1996	60	94,140	1,577,035	16.75	16.50	15.94
1998	54	71,578	1,486,101	20.76	20.00	17.13
1999					20.50	
2000	45	88,562	1,917,075	21.65	21.50	18.93
2001					22.00	
2002	38	61,390	1,596,409	26.00	22.50	22.40
2003					23.50	
2004	47	123,460	2,937,553	23.79		23.59

#### SUBCOMMITTEE'S RECOMMENDED PRICE FOR THE 2004 NEEDS STUDY IS \$24.00 PER SQ. YD.

Note: There was no Unit Price Study in years 1997,1999, 2001 and 2003. Therefore, we used the total of the past five year's costs divided by the total of the past five year's quantities for the 5-Year Average.

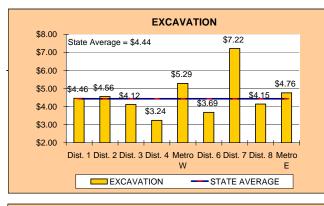
# **2003 UNIT PRICES BY DISTRICT**

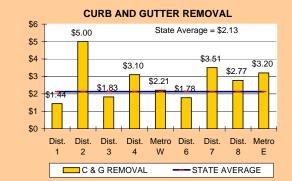
For the 2004 Unit Price Study

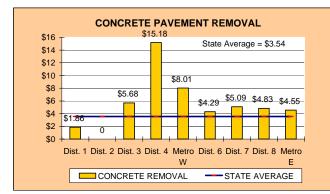
	Dist.	Dist.	Dist.	Dist.	Metro	Dist.	Dist.	Dist.	Metro	State
	1	2	3	4	West	6	7	8	East	Average
Excavation	\$4.46	\$4.56	\$4.12	\$3.24	\$5.29	\$3.69	\$7.22	\$4.15	\$4.76	\$4.44
Aggregate Shoulders				\$32.00		\$9.00				\$9.79
C & G Removal	\$1.44	\$5.00	\$1.83	\$3.10	\$2.21	\$1.78	\$3.51	\$2.77	\$3.20	\$2.13
Sidewalk Removal	\$2.36	\$10.00	\$2.82	\$7.26	\$6.19	\$5.97	\$7.69	\$5.11	\$4.45	\$3.99
Conc. Pave. Removal	\$1.86		\$5.68	\$15.18	\$8.01	\$4.29	\$5.09	\$4.83	\$4.55	\$3.54
Tree Removal (Clear)	\$247.33		\$198.30	\$412.50	\$121.30	\$327.25	\$500.00	\$195.31	\$195.27	\$187.06
Tree Removal (Grub)	\$94.96		\$132.01	\$171.43	\$75.80	\$147.45	\$350.00	\$187.50	\$113.95	\$105.13
Agg. Base - 2211	\$5.87	\$20.69	\$8.78	\$12.26	\$11.09	\$12.10	\$17.21	\$7.66	\$11.02	\$9.16
Bituminous - All	\$30.87	\$29.48	\$32.90	\$32.84	\$34.25	\$37.68	\$43.66	\$29.70	\$32.84	\$33.14
C & G Const.	\$8.88	\$11.15	\$7.52	\$10.97	\$8.80	\$9.03	\$8.84	\$7.57	\$8.92	\$8.76
Sidewalk Const.	\$22.12	\$27.00	\$19.50	\$37.50	\$25.29	\$25.43	\$29.76	\$22.14	\$27.01	\$23.79

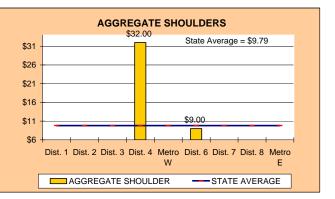
BOLD = Highest District Cost in That Category

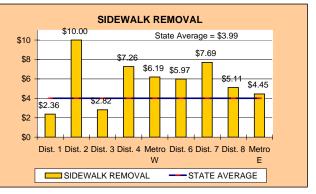
ITALIC = Lowest District Cost in That Category

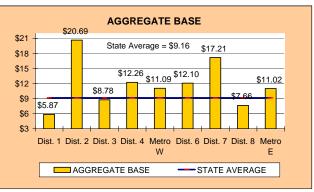






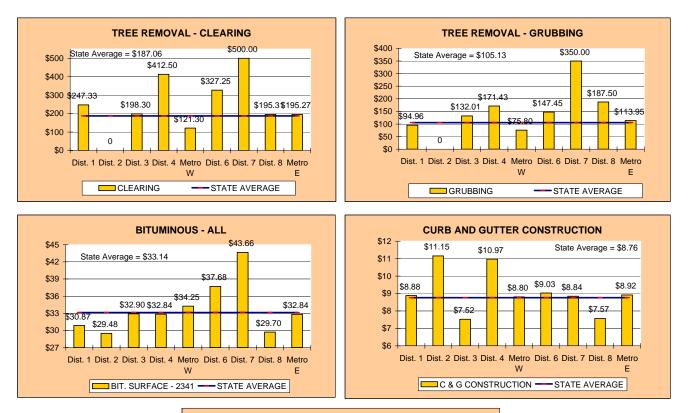


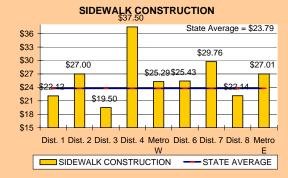




# 2003 UNIT PRICES BY DISTRICT

Graphs (Continued)





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# STORM SEWER, LIGHTING AND SIGNAL NEEDS COSTS

	STORM SEWER	STORM SEWER		
NEEDS	ADJUSTMENT	CONSTRUCTION	LIGHTING	SIGNALS
YEAR	(Per Mile)	(Per Mile)	(Per Mile)	(Per Mile)
1987	62,000	196,000 *	2,000	12,000
1988	62,000	196,000 *	16,000	15,000
1989	62,000	196,000 *	16,000	15,000-45,000
1990	62,000	196,000	16,000	15,000-45,000
1991	62,000	196,000	16,000	18,750-75,000
1992	62,000	199,500	20,000	20,000-80,000
1993	64,000	206,000	20,000	20,000-80,000
1994	67,100	216,500	20,000	20,000-80,001
1995	69,100	223,000	20,000	20,000-80,002
1996	71,200	229,700	20,000	20,000-80,003
1998	76,000	245,000	20,000	24,990-99,990
1999	79,000	246,000	35,000	24,990-99,991
2000	80,200	248,500	50,000	24,990-99,992
2001	80,400	248,000	78,000 **	30,000-120,000
2002	81,600	254,200	78,000	30,000-120,001
2003	82,700	257,375	80,000	31,000-124,000
2004				

\* Years that "After the Fact Needs" were in effect. 1986 to 1989 price was used only for needs purposes.

\*\* Lighting needs were revised to deficient segment only.

#### MN\DOT'S HYDRAULIC OFFICE RECOMMENDED PRICES FOR 2004:

	Storm	
	Sewer	Storm Sewer
	Adjustment	Construction
2004	\$83,775	\$262,780

#### SUBCOMMITTEE'S RECOMMENDED PRICES FOR 2004:

	Storm Sewer	Storm Sewer		
	Adjustment	Construction	Lighting	Signals
2004	\$83,775	\$262,780	\$80,000	\$124,000

#### **RAILROAD CROSSINGS NEEDS COSTS**

				SIGNALS	CONCRETE
			SIGNALS	& GATES	CROSSING
NEEDS	SIGNS	PAVEMENT	(Low Speed)	(High Speed)	MATERIAL
YEAR	(Per Unit)	MARKING	(Per Unit)	(Per Unit)	(Per foot)
1987	300		65,000	95,000	
1988	300		65,000	95,000	\$700
1989	300		70,000	99,000	700
1990	400		75,000	110,000	750
1991	500		80,000	110,000	850
1992	600	\$750	80,000	110,000	900
1993	600	750	80,000	110,000	900
1994	800	750	80,000	110,000	750
1995	800	750	80,000	110,000	750
1996	800	750	80,000	110,000	750
1998	1,000	750	80,000	130,000	750
1999	1,000	750	85,000	135,000	850
2000	1,000	750	110,000	150,000	900
2001	1,000	750	120,000	160,000	900
2002	1,000	750	120,000	160,000	1,000
2003	1,000	750	120,000	160,000	1,000
2004					

#### MN\DOT'S RAILROAD OFFICE RECOMMENDED PRICES FOR 2004:

		Pavement			Concrete		
	Signs	Marking	Signals	Sig. & Gates	X-ing Surf.		
2004	\$1,000	\$750	\$150,000	\$150-225,000	\$1,000		
SUBCOMMITTEE'S RECOMMENDED PRICES FOR 2004:							
2004	\$1,000	\$750	\$150,000	\$187,500	\$1,000		
-							

Bridge Office 3485 Hadley Avenue North Oakdale, MN 55128-3307

Date:	March 22, 2004
To:	Marshall Johnston Manager, Municipal State Aid Street Needs Section
From:	Mike Leuer MML State Aid Hydraulic Specialist

Phone: (651) 747-2167

Subject: State Aid Storm Sewer Construction Costs for 2003

We have completed our analysis of storm sewer construction costs incurred for 2003 and the following assumptions can be utilized for planning purposes per roadway mile:

> Approximately \$262,780 for new construction, and

> Approximately \$83,775 for adjustment of existing systems

The preceding amounts are based on the average cost per mile of State Aid storm sewer using unit prices from approximately 142 plans for 2003.

### CC: Andrea Hendrickson





## Memo

Office of Freight & Commercial Vehicle Operations Railroad Administration Section Mail Stop 420 1110 Centre Pointe Curve Mendota Heights, MN 55120-4798

Office Tel: 651/406-4798 Fax: 651/406-4811

March 18, 2004

- To: Marshall Johnson Needs Unit – State Aid
- From: Susan H. Aylesworth Director, Rail Administration Section
- Subject: Projected Railroad Grade Crossing Improvements – Cost for 2004

We have projected 2004 costs for railroad/highway improvements at grade crossings. For planning purposes, we recommend using the following figures:

Signals (single track, low speed, average price)*	\$150,000.00
Signals & Gates (multiple track, high/low speed, average price)*	\$150,000 - \$225,000.00
Signs (advance warning signs and crossbucks)	\$1,000 per crossing
Pavement Markings (tape)	\$5,500 per crossing
Pavement Markings (paint)	\$ 750 per crossing
Crossing Surface (concrete, complete reconstruction)	\$1,000 per track ft.

\*Signal costs include sensors to predict the motion of train or predictors which can also gauge the speed of the approaching train and adjust the timing of the activation of signals.

Our recommendation is that roadway projects be designed to carry any improvements through the crossing area – thereby avoiding the crossing acting as a transition zone between two different roadway sections or widths. We also recommend a review of all passive warning devices including advance warning signs and pavement markings – to ensure compliance with the MUTCD and OFCVO procedures.

#### April 21, 2003

### Special Drainage Costs for Rural Segments 2004

On April 19, 1996, the Needs Study Subcommittee requested background information on how this unit price is determined. The following minutes are taken from the Needs Study Subcommittee meeting of March 19, 1990:

Rural section drainage needs: some cities have a certain amount of rural section streets or roads which are unlikely to ever require curb and gutter section and storm sewers, that is, urban section needs. It would seem that they should draw some needs however for ditching, driveway culverts, centerline culverts, rip-rap, etc. There are two ways to handle this inequity, come up with an average cost per mile, or have cities submit special drainage needs. After considerable discussion it was decided to recommend cost of \$25,000 per mile - based on an average of 25 driveways per mile and four centerline pipes per mile. If cities feel this does not represent their needs or if they have out of the ordinary drainage needs they have the option of submitting special drainage needs. These would be subject to approval by the District State Aid Engineer.

At the April 19, 1994 meeting of the Needs Study Subcommittee, the unit price for special drainage was changed to \$26,000 per mile. There is no indication in the minutes as to why this change was made.

After consulting with the MN/DOT estimating unit and research in the State Aid manual and the Drainage manual, the following determinations have been made:

### For Entrance Culverts:

- 1) The recommended residential driveway width onto a state aid roadway is 16 feet. (State Aid Manual Fig. D(2) 5-892.210).
- The minimum pipe diameter of Side Culverts shall be 18 inches. The minimum cover shall be one foot, however, it is desirable to have 1.25 feet or more of cover on side roads. (Drainage Manual 5-294.302).
- 3) The MN/DOT estimating unit recommends using a 18-inch Galvanized Steel Pipe and two aprons as the standard for an entrance culvert to a rural segment on the Municipal State Aid Street system.
- 4) For construction needs purposes the MN/DOT estimating unit recommends using \$24.00 per foot as a cost for 18" GSP and \$150.00 per apron.
- 5) Using a 3:1 inslope for the driveway with a 4' deep ditch (the culvert would have 2.5 feet of cover), the length of the pipe would be 31 feet plus two aprons.
- 6) Therefore, the estimated construction needs cost per entrance would be \$1,044.00.

Using the 1990 Needs Study Subcommittee recommended number of 25 entrances per mile, the cost of Side Culverts per mile would be \$26,100.

### For **£** Culverts:

- The minimum pipe diameter of € culverts shall be 24 inches. The minimum cover shall be 1.25 feet to the top of rigid pavement and 1.75 feet to the top of flexible pavement. (Drainage Manual 5-294.302).
- 2) The MN/DOT estimating unit recommends using a 30-inch Reinforced Concrete Pipe and two aprons as the standard for a centerline culvert on a rural segment of the Municipal State Aid Street system.
- 3) For construction needs purposes the MN/DOT estimating unit recommends using \$55.00 per foot as a cost for 30" RCP and \$650 per apron.
- 4) Using a 40' roadbed width, a 4:1 inslope and a 4' ditch depth (the culvert would have 1.5 feet of cover), the length of the culvert would be 52' plus two aprons.
- 5) Therefore, the estimated construction needs cost per **6**culvert would be \$4,160.

Using the 1990 Needs Study Subcommittee recommended number of four **6**culverts per mile, the cost of centerline culverts per mile would be \$16,640.

By adding the cost of the 25 Side Culverts and the 4  $\pounds$  culverts, the estimated construction needs cost per mile for Special Drainage would be **\$42,470** per mile.

# SUBCOMMITTEE'S RECOMMENDED PRICE FOR THE 2004 NEEDS STUDY IS <u>\$40,000</u> PER MILE.

The 2003 Cost per Mile was \$37,400 The 2002 Cost per Mile was \$37,400

## 2004 COUNTY SCREENING BOARD DATA

#### **JUNE**, 2004

#### C.S.A.H. Roadway Unit Price Report

				2004 MSAS
	2003	1999-2003		Needs Study
	CSAH	CSAH	2003	Unit Price
	Needs	5-Year	CSAH	Recommended
	Study	Const.	Const.	by MSAS
Construction Item	Average	Average	Average	Subcommittee

Rural & Urban Design			
Grav. Base CI 5 & 6/Ton	\$5.76	\$5.58	\$5.81
Outstate(Grav. Base CI 5 & 6/Ton)	\$5.47	\$5.34	\$5.57
Metro (Grav. Base Cl 5 & 6/Ton)	\$7.79	\$7.31	\$8.84

Rural Design				
Combine Bit. Base & Surface				
(2331, 2341, 2350, & 2361)/Ton	\$22.74	\$21.59	\$22.91	
Outstate(2331,2341,2350,& 2361)/Ton)	\$22.48	\$21.41	\$22.78	
Gravel Surf. 2118/Ton	5.35	5.27	5.67	5.5
Gravel Shldr. 2221/Ton	6.44	6.12	6.41	

Urban Design			
Combine Bit. Base & Surface (2331, 2341, 2350, & 2361)/Ton	\$29.92	\$28.68	\$32.73
Outstate(2331,2341,2350,& 2361/Ton)	\$27.18	\$28.05	\$32.16
Metro (Rural & Urban) (2331, 2341, 2350, & 2361)	\$31.81	\$28.91	\$33.47

#### **RURAL SEGMENTS WITH PROJECTED TRAFFIC LT 150**

			PROJECTED	SEGMENT
CITY NAME	SEGMENT	PROPOSED DESIGN CODE	TRAFFIC	LENGTH
Hibbing	131-186-010	2 RURAL/EXISTING RURAL	90	0.20
Hibbing	131-186-030	2 RURAL/EXISTING RURAL	136	0.73
Hibbing	131-203-010	2 RURAL/EXISTING RURAL	75	0.76
Hibbing	131-203-020	2 RURAL/EXISTING RURAL	75	0.19
Hibbing	131-203-030	2 RURAL/EXISTING RURAL	75	0.46
Hibbing	131-209-010	2 RURAL/EXISTING RURAL	70	0.93
Hibbing	131-214-010	2 RURAL/EXISTING RURAL	90	0.71
Andover	198-104-010	2 RURAL/EXISTING RURAL	30	1.01
North Branch	225-114-010	2 RURAL/EXISTING RURAL	72	0.50
St. Michael	227-102-030	2 RURAL/EXISTING RURAL	143	0.25
St. Michael	227-102-040	2 RURAL/EXISTING RURAL	143	0.38
TOTAL				6.12

#### **BRIDGES LET IN CALENDAR YEAR 2003**

#### BRIDGE LENGTH 0-149 FEET

NEW BRIDGE						COST PER
NUMBER		ECT NUMBER	LENGTH	DECK AREA	BRIDGE COST	SQ. FT.
1522	SAP	1-599-022	132.88	3,990	393,996	99
4522	SAP	4-611-010	98.10	4,214	452,584	107
8543	SAP	8-599-039	100.58	3,535	250,025	71
8545	SAP	8-599-040	124.50	3,901	263,686	68
10537	SAP	10-640-003	116.08	7,081	582,409	82
11523	SAP	11-599-012	55.50	1,960	180,251	92
11518	SAP	11-613-003	90.50	3,510	300,706	86
12547	SAP	12-599-049	95.30	3,325	238,260	72
12548	SAP SAP	12-599-068 14-602-020	92.50 142.50	<u>3,268</u> 6.175	232,630 435,828	71
14540 17525	-	17-599-027		2.418		71 74
	SAP SAP		77.50	7 -	179,266	
<u>19542</u> 19541	SAP SAP	<u>19-647-015</u> 19-666-009	104.50 87.67	<u>4,929</u> 4,135	<u>323,982</u> 305,973	<u>66</u> 74
22598	SAP		125.67	5,418	/	59
	SAP	22-613-019 23-599-154		•	321,585	<u>59</u> 95
23565 23567	SAP SAP	23-638-004	94.67 129.46	<u>3,325</u> 4,515	<u>316,664</u> 466,669	103
25593	SAP SAP	25-598-009	82.58	2,918	205,765	71
23393 27A76	SAP	27-597-005	37.00	1,159	205,765	174
28532	SAP	28-599-058	73.67	2,294	201,102	88
28532	SAP SAP	28-605-010	37.01	2,294	203,000	 58
31548	SAP	31-598-016	89.69	3,510	230,200	68
31541	SP	31-629-013	53.67	2.106	217.830	103
31547	SP	31-672-002	101.50	3,570	272,150	76
32545	SP	32-599-078	68.00	2,040	166.324	82
33534	SAP	33-599-009	86.25	3,010	200.071	66
36529	SAP	36-629-011	112.50	4,368	353,576	81
37548	SAP	37-598-015	112.50	4,000	253.222	60
38J04	SAP	38-602-020	24.00	2,016	253,592	126
39521	SAP	39-598-023	71.25	2,232	226,065	101
40522	SAP	40-599-016	83.25	2,905	227,375	78
40521	SAP	40-602-017	51.58	2,028	176,189	87
42559	SAP	42-599-125	83.50	2,604	185,140	71
42560	SAP	42-599-128	86.54	2,712	186,828	69
43544	SAP	43-599-025	129.76	4,030	281,673	70
43547	SAP	43-603-026	122.60	5,781	491,634	85
45552	SAP	45-599-108	77.50	2,730	240,824	88
45565	SP	45-599-134	117.58	3,658	312,110	85
46550	SP	46-599-053	106.58	3,766	299,989	80
48527	SAP	48-599-041	122.67	4,305	261,761	61
55574	SAP	55-599-062	120.06	3,720	292,961	79
55573	SAP	55-606-004	109.92	4,730	433,354	92
91932	SP	56-696-002	61.67	3,608	374,898	104
58544	SAP	58-598-018	77.70	3,042	324,116	107
58543	SAP	58-598-021	45.70	1,794	224,036	125
58546	SAP	58-599-029	56.25	1,736	179,361	103
58546	SAP	58-599-029	56.25	1,736	179,361	103
59535	SAP	59-599-041	99.50	3,500	229,985	66
60545	SAP	60-599-166	80.50	2,844	289,884	102
60550	SAP	60-599-188	115.83	4,093	348,631	85
60549	SAP	60-599-190	84.17	2,974	287,703	97
62570	SP	62-597-002	45.94	2,301	280,770	122
64573	SAP	64-599-066	77.25	2,730	181,708	67
64572	SAP	64-599-079	132.94	4,655	327,735	70
64570	SAP	64-599-082	120.87	4,235	258,071	61
64571	SAP	64-599-083	117.50	4,130	248,496	60
66540	SAP	66-599-033	49.00	1,666	171,010	103
67548	SP	67-599-062	77.50	2,428	183,183	75
67547	SP	67-599-066	140.50	4,900	316,766	65
68535	SP	68-599-076	83.50	2,940	257,390	88
69653	SP	69-609-034	27.26	1,404	406,570	290
		69-703-011	24.00	1,568	166,686	106

#### **BRIDGES LET IN CALENDAR YEAR 2003**

NEW BRIDGE NUMBER	PROJ	ECT NUMBER	LENGTH	DECK AREA	BRIDGE COST	COST PER SQ. FT.
76538	SAP	76-631-022	74.60	2,925	208,797	71
78511	SP	78-598-022	74.00	2,318	147,779	64
78512	SAP	78-598-024	54.00	1,674	160,507	96
78513	SAP	78-613-006	47.00	1,473	145,416	99
81528	SP	81-598-009	126.83	4,988	391,310	78
83543	SP	83-599-057	86.00	2,580	192,270	75
84531	SAP	84-598-040	146.00	5,110	285,804	56
85547	SAP	85-598-005	90.50	3,560	298,676	84
85547	SAP	85-598-005	90.50	3,560	298,676	84
86520	SP	86-614-008	43.17	2,020	414,555	205
87579	SAP	87-599-040	80.50	2,800	262,000	94
27A77	SAP	98-080-027	113.17	3,131	923,404	295
10044	TH		73.75	2,630	241,013	92
19094	TH		126.17	8,874	587,301	66
19095	TH		63.00	3,234	284,055	88
23023	TH		87.00	4,466	321,318	72
55073	TH		119.83	8,751	609,029	70
55074	TH		118.50	6,794	486,400	72
55075	TH		118.50	6,735	516,863	77
60023	TH		98.42	4,658	348,782	75
69127	TH		149.92	6,801	663,067	97
State Aid Projects Frunk Hwy Project				240,982 52,943	20,646,322 4,057,828	\$86 \$77
TOTALS				293,925	24,704,150	\$84

#### BRIDGE LENGTH 0-149 FEET

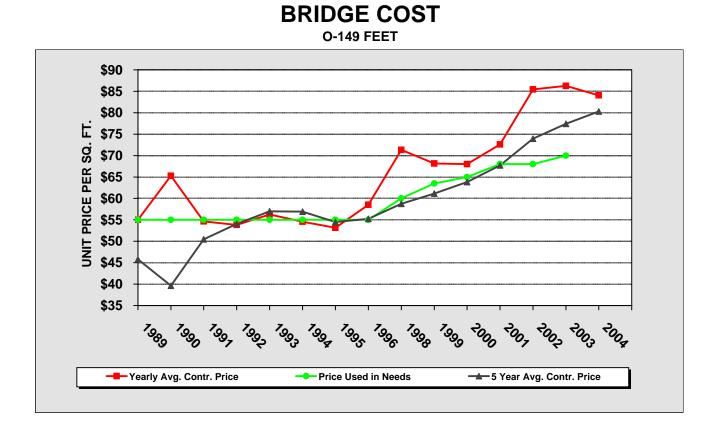
n:csah\book\Spring 2004\Bridge Projects 2004.xls

7577         SP         7-603-008         443.50         40069         \$3,075,219.00           18524         SAP         18-611-020         200.33         8600         \$498,538.00           19540         SAP         19-598-010         152.67         7191         \$467,242.00           23575         SAP         23-640-002         216.67         4515         \$288,893.00           37547         SP         37-631-008         169.58         6670         \$460,523.00           43545         SAP         43-599-027         186.25         7254         \$562,499.00           45547         SP         45-598-011         163.81         6396         \$413,772.00           53535         SP         53-635-014         181.00         8567         \$445,528.00           55569         SP<5558-050         171.63         6064         \$431,792.00         86528           SAP         86-599-024         165.25         6499         \$474,750.00         86528           SAP         86-599-024         165.25         6499         \$444,746.00         82027           82027         SP         184-080-002         394.23         23390         \$2,926.013.00           19R03         TH <th>EW BRIDGE</th> <th></th> <th>PROJECT</th> <th></th> <th></th> <th></th> <th>COST PE</th>	EW BRIDGE		PROJECT				COST PE
18524         SAP         18-611-020         200.33         8600         \$499,538.00           19540         SAP         19-598-010         152.67         7191         \$467,242.00           23575         SAP         23-640-002         216.67         4515         \$\$288,993.00           37547         SP         37-631-008         169.58         6670         \$\$460,523.00           43545         SAP         43-599-027         186.25         7254         \$\$562,499.00           45547         SP         45-598-011         163.81         6396         \$\$413,772.00           53535         SP         53-635-014         181.00         8567         \$\$456,228.00           55569         SP         55-598-050         171.63         6064         \$\$431,772.00           69644         SP         69-598-0224         165.25         6499         \$\$477,155.00           86528         SAP         86-599-024         165.25         6499         \$\$477,155.00           62598         SP         164-288-003         767.00         64770         \$\$5,119,888.00           82027         SP         98-080-002         394.23         23390         \$2,926,013.00	NUMBER		NUMBER	LENGTH	DECK AREA	BRIDGE COST	SQ. FT.
19540         SAP         19-598-010         152.67         7191         \$467,242.00           23575         SAP         23-640-002         216.67         4515         \$288,893.00           37547         SP         37-631-008         169.58         6670         \$460,523.00           43545         SAP         43-599-027         186.25         7254         \$562,499.00           45547         SP         45-598-011         163.81         6396         \$413,772.00           53535         SP         55-698-050         171.63         6064         \$431,792.00           69644         SP         69-598-028         166.25         6499         \$447,155.00           86528         SAP         86-599-024         165.25         6499         \$447,7155.00           86528         SAP         86-599-024         165.25         6499         \$447,7155.00           86528         SP         98-080-001         348.00         16472         \$1,038,167.00           62598         SP         164-288-003         767.00         64770         \$21,19,88.00           82027         SP         184-080-002         394.23         23390         \$2,926,013.00           19R01         TH<							
23575         SAP         23-640-002         216.67         4515         \$288,893.00           37547         SP         37-631-008         169,58         6670         \$460,523.00           43545         SAP         43-599-027         186.25         7254         \$562,499.00           45547         SP         45-598-011         163.81         6396         \$413,772.00           53535         SP         53-635-014         181.00         8567         \$455,228.00           55569         SP         55-598-050         171.63         6064         \$431,792.00           69644         SP         69-598-024         165.25         6499         \$477,155.00           86528         SAP         86-599-024         165.25         6499         \$447,46.00           6977         SP         88-080-001         348.00         1647.72         \$1,038,167.00           62598         SP         164-288-003         767.00         644770         \$5,119,888.00           82027         SP         184-080-002         394.23         23390         \$2,926,013.00           19R01         TH         233.58         23,200         1,646,037           19R03         TH         198.35							
37647         SP         37-631-008         169.58         6670         \$400,523.00           43545         SAP         43-599-027         186.25         7254         \$562,499.00           45547         SP         45-598-011         163.81         6396         \$413,772.00           53535         SP         53-635-014         181.00         8567         \$445,228.00           55569         SP         55-598-050         171.63         60064         \$431,792.00           69644         SP         69-598-024         165.25         6499         \$447,155.00           86528         SAP         86-599-024         165.25         6499         \$447,155.00           86528         SAP         86-599-024         165.25         6499         \$447,150.00           86528         SP         98-080-001         348.00         16472         \$1,038,167.00           62598         SP         164-288-003         767.00         64470         \$\$19,888.00           82027         SP         184-080-002         394.23         23390         \$2,926,013.00           19R04         TH         233.58         10,570         848,208         19803         149.20           19R02		<b>.</b>				+ - )	
43545         SAP         43-599-027         186.25         7254         \$562,499.00           45547         SP         45-598-011         163.81         6396         \$4413,772.00           53535         SP         55-598-050         171.63         6064         \$4431,792.00           69644         SP         69-598-028         168.58         5239         \$436,860.00           86528         SAP         86-599-024         165.25         6499         \$477,155.00           86528         SAP         86-599-024         165.25         6499         \$494,746.00           69578         SP         98-080-001         348.00         16472         \$1,038,167.00           62598         SP         164-288-003         767.00         64770         \$5,119,888.00           82027         SP         184-080-002         394.23         23300         \$2,926,013.00           19R01         TH         233.58         23,200         1,646,037           19R02         TH         198.35         10,570         848,208           19R04         TH         240.25         25,546         1,484,658           27V33         TH         319.09         3,670         3,119,072 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
45547         SP         45-598-011         133.81         6396         \$413,772.00           53535         SP         53-635-014         181.00         8667         \$455,228.00           55569         SP         55-598-050         171.63         6064         \$431,792.00           69644         SP         69-598-028         166.58         5239         \$436,860.00           86528         SAP         86-599-024         165.25         6499         \$494,746.00           69578         SP         98-080-001         348.00         16472         \$1,038,167.00           62598         SP         164-288-003         767.00         64770         \$5,119,888.00           82027         SP         184-080-002         394.23         23390         \$2,926,013.00           19R01         TH         233.58         23,200         1,646,037           19R02         TH         198.35         10,570         848,208           19R03         TH         198.35         10,570         848,208           19R04         TH         240.25         25,546         1,484,658           27V33         TH         319.09         34,670         3,119,072           27V38							
53535         SP         53-635-014         181.00         8567         \$455,228.00           55569         SP         55-598-050         171.63         6064         \$431,792.00           69644         SP         69-598-028         168.58         5239         \$436,860.00           86528         SAP         86-599-024         165.25         64499         \$447,155.00           86528         SAP         86-599-024         165.25         64499         \$449,746.00           69578         SP         98-080-001         348.00         164.72         \$1,038,167.00           62598         SP         164.288-003         767.00         64770         \$5,119,888.00           82027         SP         184-080-002         394.23         23390         \$2,926,013.00           19R01         TH         233.58         23,200         1,646,037           19R02         TH         198.35         10,570         831,920           19R04         TH         240.25         25,546         1,484,658           27V33         TH         219.93         10,366         730,027           18007         TH         179.93         8,030         553,701           27273 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
55569         SP         55-598-050         171.63         6064         \$431,792.00           69644         SP         69-598-028         168.58         5239         \$436,860.00           86528         SAP         86-599-024         165.25         6499         \$477,155.00           86528         SAP         86-599-024         165.25         6499         \$494,746.00           69578         SP         98-080-001         348.00         16472         \$1,038,167.00           62598         SP         164-288-003         767.00         64770         \$5,119,888.00           82027         SP         184-080-002         394.23         23390         \$2,926,013.00           19R01         TH         233.58         23,200         1,646,037           19R02         TH         198.35         10,570         848,208           19R03         TH         240.25         25,546         1,484,658           27V33         TH         319.09         34,670         3,119,072           27V38         TH         240.25         3,585         1,929,564           27273         TH         492.33         23,585         1,929,564           27274         T							
69644         Sp         69-598-028         168.58         5239         \$436,860.00           86528         SAP         86-599-024         165.25         6499         \$477,155.00           86528         SAP         86-599-024         165.25         6499         \$494,746.00           69578         SP         98-080-001         348.00         16472         \$1,038,167.00           62598         SP         164-288-003         767.00         64770         \$5,119,888.00           82027         SP         184-080-002         394.23         23390         \$2,926,013.00           19R01         TH         233.58         23,200         1,646,037           19R02         TH         198.35         10,570         848,208           19R03         TH         198.35         10,570         831,920           19R04         TH         240.25         25,546         1,484,658           27V38         TH         205.85         37,380         3,652,312           18007         TH         179.93         8,030         553,701           27273         TH         492.33         23,585         1,929,564           27275         TH         245.17         1							
B6528         SAP         B6-599-024         165.25         6499         \$477,155.00           B6528         SAP         B6-599-024         165.25         6499         \$494,746.00           69578         SP         98-080-001         348.00         16472         \$1,038,167.00           62598         SP         164-288-003         767.00         64770         \$5,119,888.00           82027         SP         184-080-002         394.23         23390         \$2,926,013.00						· · · · ·	
86528         SAP         86-599-024         165.25         6499         \$494,746.00           69578         SP         98-080-001         348.00         16472         \$1,038,167.00           62598         SP         164-288-003         767.00         64770         \$5,119,888.00           82027         SP         184-080-002         394.23         23390         \$2,926,013.00           19801         TH         233.58         23,200         1,646,037           19R01         TH         198.35         10,570         848,208           19R03         TH         198.35         10,570         844,208           19R04         TH         240.25         25,546         1,484,658           27V33         TH         205.85         37,380         3,652,312           18007         TH         179.93         10,366         730,027           18008         TH         179.93         8,030         553,701           27273         TH         492.33         23,585         1,929,564           27275         TH         245.17         15,446         1,082,295           27280         TH         206.77         19,843         1,392,453		-					
Bit Sp         98-080-001         348.00         16472         \$1,038,167.00           62598         SP         164-288-003         767.00         64770         \$5,119,888.00           82027         SP         184-080-002         394.23         23390         \$2,926,013.00           19R01         TH         233.58         23,200         1,646,037           19R02         TH         198.35         10,570         848,208           19R03         TH         240.25         25,546         1,484,658           27V33         TH         319.09         34,670         3,119,072           27V38         TH         205.85         37,380         3,652,312           18007         TH         179.93         10,366         730,027           18008         TH         179.93         8,030         553,701           27273         TH         492.33         23,585         1,929,564           27275         TH         245.17         15,446         1,082,295           27280         TH         206.77         19,843         1,392,453           36024         TH         420.25         16,530         1,587,005           54006         TH							
62598         SP         164-288-003         767.00         64770         \$5,119,888.00           82027         SP         184-080-002         394.23         23390         \$2,926,013.00           19R01         TH         233.58         23,200         1,646,037           19R02         TH         198.35         10,570         848,208           19R03         TH         198.35         10,570         831,920           19R04         TH         240.25         25,546         1,484,658           27V33         TH         319.09         34,670         3,119,072           27V38         TH         205.85         37,380         3,652,312           18007         TH         179.93         8,030         553,701           27273         TH         492.33         23,585         1,929,564           27274         TH         223.69         14,018         1,078,368           27275         TH         245.17         15,446         1,082,295           27280         TH         206.77         19,843         1,392,453           36024         TH         321.08         13,914         1,300,227           63102         TH         223.2							
B2027         SP         184-080-002         394.23         23390         \$2,926,013.00           19R01         TH         233.58         23,200         1,646,037           19R02         TH         198.35         10,570         848,208           19R03         TH         198.35         10,570         831,920           19R04         TH         240.25         25,546         1,484,658           27V33         TH         319.09         34,670         3,119,072           27V38         TH         205.85         37,380         3,652,312           18007         TH         179.93         10,366         730,027           18008         TH         179.93         8,030         553,701           27273         TH         492.33         23,585         1,929,564           27274         TH         223.69         14,018         1,078,368           27275         TH         245.17         15,446         1,082,295           27280         TH         206.77         19,843         1,392,453           36024         TH         326.17         14,134         1,433,148           55068         TH         232.65         27,255		-					
19R01         TH         23.3.5         23,200         1,646,037           19R02         TH         198.35         10,570         848,208           19R03         TH         198.35         10,570         848,208           19R04         TH         240.25         25,546         1,484,658           27V33         TH         319.09         34,670         3,119,072           27V38         TH         205.85         37,380         3,652,312           18007         TH         179.93         10,366         730,027           18008         TH         179.93         8,030         553,701           27273         TH         492.33         23,585         1,929,564           27274         TH         223.69         14,018         1,078,368           27275         TH         245.17         15,446         1,082,295           27280         TH         206.77         19,843         1,392,453           36024         TH         420.25         16,530         1,587,005           54006         TH         326.17         14,134         1,433,148           55068         TH         223.65         27,255         1,817,556 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
19R02         TH         198.35         10,570         848,208           19R03         TH         198.35         10,570         831,920           19R04         TH         240.25         25,546         1,484,658           27V33         TH         319.09         34,670         3,119,072           27V38         TH         205.85         37,380         3,652,312           18007         TH         179.93         10,366         730,027           18008         TH         179.93         8,030         553,701           27273         TH         492.33         23,585         1,929,564           27274         TH         223.69         14,018         1,078,368           27275         TH         245.17         15,446         1,082,295           27280         TH         206.77         19,843         1,392,453           36024         TH         420.25         16,530         1,587,005           54006         TH         321.08         13,914         1,433,148           55068         TH         235.65         27,255         1,817,556           63002         TH         321.08         13,914         1,300,227 <td>82027</td> <td>SP</td> <td>184-080-002</td> <td>394.23</td> <td>23390</td> <td>\$2,926,013.00</td> <td></td>	82027	SP	184-080-002	394.23	23390	\$2,926,013.00	
19R03         TH         198.35         10,570         831,920           19R04         TH         240.25         25,546         1,484,658           27V33         TH         319.09         34,670         3,119,072           27V38         TH         205.85         37,380         3,652,312           18007         TH         179.93         10,366         730,027           18008         TH         179.93         8,030         553,701           27273         TH         492.33         23,585         1,929,564           27274         TH         223.69         14,018         1,078,368           27275         TH         245.17         15,446         1,082,295           27280         TH         206.77         19,843         1,392,453           36024         TH         420.25         16,530         1,587,005           54006         TH         326.17         14,134         1,433,148           55068         TH         235.65         27,255         1,817,556           63002         TH         321.08         13,914         1,300,227           69125         TH         223.23         10,127         716,059 <td></td> <td>TH</td> <td></td> <td>233.58</td> <td>23,200</td> <td>1,646,037</td> <td></td>		TH		233.58	23,200	1,646,037	
19R04         TH         240.25         25,546         1,484,658           27V33         TH         319.09         34,670         3,119,072           27V38         TH         205.85         37,380         3,652,312           18007         TH         179.93         10,366         730,027           18008         TH         179.93         8,030         553,701           27273         TH         492.33         23,585         1,929,564           27274         TH         223.69         14,018         1,078,368           27275         TH         245.17         15,446         1,082,295           27280         TH         206.77         19,843         1,392,453           36024         TH         420.25         16,530         1,587,005           54006         TH         326.17         14,134         1,433,148           55068         TH         235.65         27,255         1,817,556           63002         TH         321.08         13,914         1,300,227           69125         TH         223.23         10,127         716,059           69126         TH         223.10         12,597         872,022 <td>19R02</td> <td></td> <td></td> <td>198.35</td> <td>10,570</td> <td>848,208</td> <td></td>	19R02			198.35	10,570	848,208	
27V33         TH         319.09         34,670         3,119,072           27V38         TH         205.85         37,380         3,652,312           18007         TH         179.93         10,366         730,027           18008         TH         179.93         8,030         553,701           27273         TH         492.33         23,585         1,929,564           27274         TH         223.69         14,018         1,078,368           27275         TH         245.17         15,446         1,082,295           27280         TH         206.77         19,843         1,392,453           36024         TH         420.25         16,530         1,587,005           54006         TH         326.17         14,134         1,433,148           55068         TH         235.65         27,255         1,817,556           63002         TH         321.08         13,914         1,300,227           69125         TH         223.23         10,127         716,059           69126         TH         223.10         12,597         872,022           69128         TH         150.20         7,375         723,319				198.35			
27V38         TH         205.85         37,380         3,652,312           18007         TH         179.93         10,366         730,027           18008         TH         179.93         8,030         553,701           27273         TH         492.33         23,585         1,929,564           27274         TH         223.69         14,018         1,078,368           27275         TH         245.17         15,446         1,082,295           27280         TH         206.77         19,843         1,392,453           36024         TH         420.25         16,530         1,587,005           54006         TH         326.17         14,134         1,433,148           55068         TH         235.65         27,255         1,817,556           63002         TH         321.08         13,914         1,300,227           69125         TH         223.23         10,127         716,059           69126         TH         223.10         12,597         872,022           69126         TH         213.26         19,763         1,461,542           73566         TH         213.26         19,763         1,461,542 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
18007         TH         179.93         10,366         730,027           18008         TH         179.93         8,030         553,701           27273         TH         492.33         23,585         1,929,564           27274         TH         223.69         14,018         1,078,368           27275         TH         245.17         15,446         1,082,295           27280         TH         206.77         19,843         1,392,453           36024         TH         420.25         16,530         1,587,005           54006         TH         326.17         14,134         1,433,148           55068         TH         235.65         27,255         1,817,556           63002         TH         321.08         13,914         1,300,227           69125         TH         223.23         10,127         716,059           69126         TH         223.10         12,597         872,022           69126         TH         150.20         7,375         723,319           73022         TH         213.26         19,763         1,461,542           73566         TH         277.69         27,912         1,807,749				319.09			
18008         TH         179.93         8,030         553,701           27273         TH         492.33         23,585         1,929,564           27274         TH         223.69         14,018         1,078,368           27275         TH         245.17         15,446         1,082,295           27280         TH         206.77         19,843         1,392,453           36024         TH         420.25         16,530         1,587,005           54006         TH         326.17         14,134         1,433,148           55068         TH         235.65         27,255         1,817,556           63002         TH         321.08         13,914         1,300,227           69125         TH         223.23         10,127         716,059           69126         TH         223.10         12,597         872,022           69126         TH         150.20         7,375         723,319           73022         TH         213.26         19,763         1,461,542           73566         TH         277.69         27,912         1,807,749           te Aid Projects         218,195         \$17,146,535         31,461,542 </td <td></td> <td></td> <td></td> <td></td> <td>37,380</td> <td>- , , -</td> <td></td>					37,380	- , , -	
27273       TH       492.33       23,585       1,929,564         27274       TH       223.69       14,018       1,078,368         27275       TH       245.17       15,446       1,082,295         27280       TH       206.77       19,843       1,392,453         36024       TH       420.25       16,530       1,587,005         54006       TH       326.17       14,134       1,433,148         55068       TH       235.65       27,255       1,817,556         63002       TH       321.08       13,914       1,300,227         69125       TH       223.10       12,597       872,022         69126       TH       223.10       12,597       872,022         69128       TH       150.20       7,375       723,319         73022       TH       213.26       19,763       1,461,542         73566       TH       277.69       27,912       1,807,749 <b>218,195</b> \$17,146,535							
27274         TH         223.69         14,018         1,078,368           27275         TH         245.17         15,446         1,082,295           27280         TH         206.77         19,843         1,392,453           36024         TH         420.25         16,530         1,587,005           54006         TH         326.17         14,134         1,433,148           55068         TH         235.65         27,255         1,817,556           63002         TH         321.08         13,914         1,300,227           69125         TH         223.23         10,127         716,059           69126         TH         223.10         12,597         872,022           69128         TH         150.20         7,375         723,319           73022         TH         213.26         19,763         1,461,542           73566         TH         277.69         27,912         1,807,749           te Aid Projects         218,195         \$17,146,535					- 1	, -	
27275         TH         245.17         15,446         1,082,295           27280         TH         206.77         19,843         1,392,453           36024         TH         420.25         16,530         1,587,005           54006         TH         326.17         14,134         1,433,148           55068         TH         235.65         27,255         1,817,556           63002         TH         321.08         13,914         1,300,227           69125         TH         223.23         10,127         716,059           69126         TH         223.10         12,597         872,022           69128         TH         150.20         7,375         723,319           73022         TH         213.26         19,763         1,461,542           73566         TH         277.69         27,912         1,807,749           te Aid Projects         218,195         \$17,146,535							
27280         TH         206.77         19,843         1,392,453           36024         TH         420.25         16,530         1,587,005           54006         TH         326.17         14,134         1,433,148           55068         TH         235.65         27,255         1,817,556           63002         TH         321.08         13,914         1,300,227           69125         TH         223.23         10,127         716,059           69126         TH         223.10         12,597         872,022           69128         TH         150.20         7,375         723,319           73022         TH         213.26         19,763         1,461,542           73566         TH         277.69         27,912         1,807,749 <b>218,195</b> \$17,146,535				223.69	14,018		
36024         TH         420.25         16,530         1,587,005           54006         TH         326.17         14,134         1,433,148           55068         TH         235.65         27,255         1,817,556           63002         TH         321.08         13,914         1,300,227           69125         TH         223.23         10,127         716,059           69126         TH         223.10         12,597         872,022           69128         TH         150.20         7,375         723,319           73022         TH         213.26         19,763         1,461,542           73566         TH         277.69         27,912         1,807,749           te Aid Projects         218,195         \$17,146,535				=	15,446	,,	
54006         TH         326.17         14,134         1,433,148           55068         TH         235.65         27,255         1,817,556           63002         TH         321.08         13,914         1,300,227           69125         TH         223.23         10,127         716,059           69126         TH         223.10         12,597         872,022           69128         TH         150.20         7,375         723,319           73022         TH         213.26         19,763         1,461,542           73566         TH         277.69         27,912         1,807,749           te Aid Projects							
55068         TH         235.65         27,255         1,817,556           63002         TH         321.08         13,914         1,300,227           69125         TH         223.23         10,127         716,059           69126         TH         223.10         12,597         872,022           69128         TH         150.20         7,375         723,319           73022         TH         213.26         19,763         1,461,542           73566         TH         277.69         27,912         1,807,749           te Aid Projects							
63002         TH         321.08         13,914         1,300,227           69125         TH         223.23         10,127         716,059           69126         TH         223.10         12,597         872,022           69128         TH         150.20         7,375         723,319           73022         TH         213.26         19,763         1,461,542           73566         TH         277.69         27,912         1,807,749           te Aid Projects						, , -	
69125         TH         223.23         10,127         716,059           69126         TH         223.10         12,597         872,022           69128         TH         150.20         7,375         723,319           73022         TH         213.26         19,763         1,461,542           73566         TH         277.69         27,912         1,807,749 <b>218,195</b> \$17,146,535							
69126         TH         223.10         12,597         872,022           69128         TH         150.20         7,375         723,319           73022         TH         213.26         19,763         1,461,542           73566         TH         277.69         27,912         1,807,749           te Aid Projects					,	,,	
69128         TH         150.20         7,375         723,319           73022         TH         213.26         19,763         1,461,542           73566         TH         277.69         27,912         1,807,749           te Aid Projects							
73022         TH         213.26         19,763         1,461,542           73566         TH         277.69         27,912         1,807,749           te Aid Projects           218,195         \$17,146,535							
73566         TH         277.69         27,912         1,807,749           te Aid Projects         218,195         \$17,146,535					,		
te Aid Projects 218,195 \$17,146,535							
				277.69	,	11	
nk Hwy Projects 382,831 \$30,067,242	te Aid Projects nk Hwy Projec						
	TALS				601,026	\$47,213,777	

NEW BRIDGE NUMBER		PROJECT NUMBER	LENGTH	DECK AREA	BRIDGE COST	COST PER SQ. FT.
62545	SP	164-128-006	654.88	36025	\$3,997,953.00	11
27A74	TH		721.46	24,730	1,423,804	į
27R08	TH		667.71	21,694	1,188,456	Ę
				36.025	3.997.953	
ate Aid Projects Ick Hwy Project				46,424	\$2,612,260	\$
TALS				82,449	\$6,610,213	, \$

NEW BRIDGE	PROJECT	Number of			
NUMBER	NUMBER	Tracks	Bridge Cost	Cost Per Lin. Ft.	Bridge Length

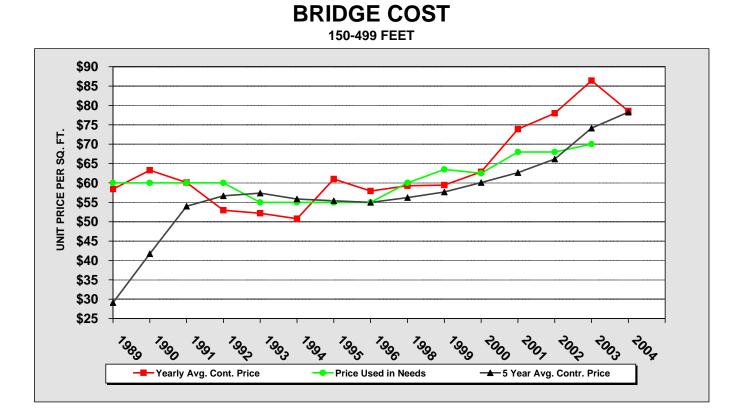
n:csah\book\Spring 2004\Bridge Projects 2004.xls



	NUMBER			YEARLY AVERAGE	PRICE	5-YEAR AVERAGE
NEEDS	OF	DECK	TOTAL	CONTRACT	USED IN	CONTRACT
YEAR	PROJECTS	AREA	COST	PRICE	NEEDS	PRICE
1989	11	35,733	\$1,966,077	\$55.02	\$55.00	\$45.78
1990	42	214,557	14,003,285	65.27	55.00	39.64
1991	37	136,770	7,472,265	54.63	55.00	50.46
1992	39	147,313	7,929,250	53.83	55.00	54.05
1993	38	190,400	10,709,785	56.25	55.00	57.00
1994	49	208,289	11,362,703	54.55	55.00	56.91
1995	32	124,726	6,627,018	53.13	55.00	54.48
1996	35	152,105	8,900,177	58.51	55.00	55.25
1998	52	191,385	13,651,209	71.33	60.00	58.76
1999	53	193,950	13,219,596	68.16	63.50	61.14
2000	54	210,895	14,341,592	68.00	65.00	63.83
2001	62	221,590	16,085,383	72.59	68.00	67.72
2002	62	274,232	23,435,194	85.46	68.00	73.93
2003	64	299,132	25,806,454	86.27	70.00	77.42
2004	85	293,925	24,704,150	84.05		80.30

SUBCOMMITTEE'S RECOMMENDED PRICE FOR THE 2004 NEEDS STUDY IS

\$70.00 PER SQ. FT.



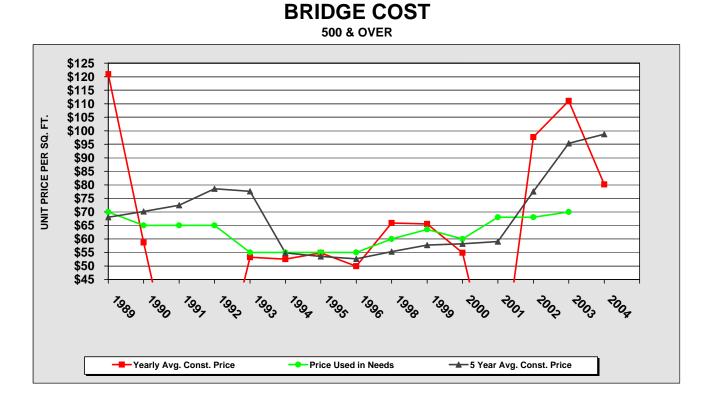
	NUMBER			YEARLY AVERAGE	PRICE	5-YEAR AVERAGE
NEEDS	OF	DECK	TOTAL	CONTRACT	USED IN	CONTRACT
YEAR	PROJECTS	AREA	COST	PRICE	NEEDS	PRICE
1989	11	116,378	\$6,796,566	\$58.40	\$60.00	\$29.07
1990	25	418,376	26,483,631	63.30	60.00	41.73
1991	27	368,709	22,167,571	60.12	60.00	54.00
1992	24	331,976	17,582,542	52.96	60.00	56.66
1993	31	421,583	21,987,208	52.15	55.00	57.39
1994	29	307,611	15,619,506	50.78	55.00	55.86
1995	28	381,968	23,310,410	61.03	55.00	55.41
1996	27	385,230	22,302,967	57.90	55.00	54.96
1998	30	483,315	28,642,031	59.26	60.00	56.22
1999	29	455,964	27,104,753	59.44	63.50	57.68
2000	22	275,074	17,296,406	62.88	62.50	60.10
2001	21	272,162	20,110,670	73.89	68.00	62.67
2002	37	443,458	34,577,147	77.97	68.00	66.18
2003	40	667,548	57,671,538	86.39	70.00	74.15
2004	38	601,026	47,213,777	78.56		78.29



19-Apr-04

SUBCOMMITTEE'S RECOMMENDED PRICE FOR THE 2004 NEEDS STUDY IS

PER SQ. FT.



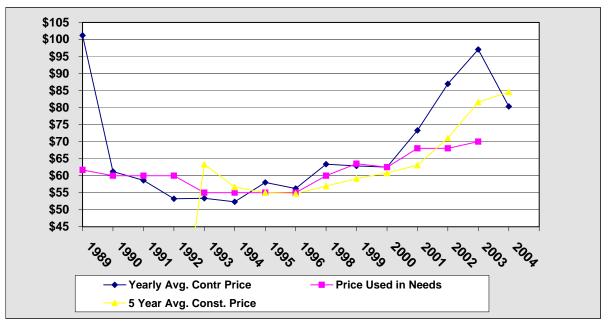
NEEDS YEAR	NUMBER OF PROJECTS	DECK AREA	TOTAL COST	YEARLY AVERAGE CONTRACT PRICE	PRICE USED IN NEEDS	5-YEAR AVERAGE CONTRACT PRICE
1989	8	335,830	\$40,615,626	\$120.94	\$70.00	\$68.02
1990	13	684,812	40,178,274	58.67	65.00	70.15
1991	0	0	0	0	65.00	72.44
1992	0	0	0	0	65.00	78.55
1993	6	245,572	13,068,106	53.21	55.00	77.61
1994	3	75,425	3,959,504	52.50	55.00	54.79
1995	2	174,991	9,595,341	54.83	55.00	53.51
1996	4	157,751	7,875,932	49.93	55.00	52.62
1998	3	182,129	12,002,782	65.90	60.00	55.27
1999	6	201,931	13,228,740	65.51	63.50	57.73
2000	2	162,652	8,922,542	54.86	60.00	58.21
2001	0	0	0	0.00	68.00	59.05
2002	6	409,395	39,986,160	97.67	68.00	77.54
2003	10	741,892	82,381,125	111.04	70.00	95.34
2004	3	82,449	6,610,213	80.17		98.75

\$74.00

19-Apr-04

SUBCOMMITTEE'S RECOMMENDED PRICE FOR THE 2004 NEEDS STUDY IS

Per Sq. Ft.



#### ALL BRIDGES COMBINED

				YEARLY AVERAGE	PRICE	5 YEAR AVERAGE
NEEDS	NO. OF		TOTAL	CONTRACT	USED IN	CONTRACT
YEAR	<b>PROJECTS*</b>	DECK AREA	COST	PRICE	NEEDS	PRICE
1989	30	487,941 <sup>1</sup>	\$49,378,269 2	\$101.20 <sup>3</sup>	\$61.67 4	
1990	80	1,317,745 <sup>1</sup>	80,665,190 2	61.21 <sup>3</sup>	\$60.00 4	
1991	64	505,479 <sup>1</sup>	29,639,836 <sup>2</sup>	58.64 <sup>3</sup>	\$60.00 4	
1992	63	479,289 <sup>1</sup>	25,511,792 <sup>2</sup>	53.23 <sup>3</sup>	\$60.00 4	
1993	75	857,555 <sup>1</sup>	45,765,099 <sup>2</sup>	53.37 <sup>3</sup>	\$55.00 4	\$63.31 <sup>5</sup>
1994	81	591,325 <sup>1</sup>	30,941,713 <sup>2</sup>	52.33 <sup>3</sup>	\$55.00 4	56.65 <sup>5</sup>
1995	62	681,685 <sup>1</sup>	39,532,769 <sup>2</sup>	57.99 <sup>3</sup>	\$55.00 4	55.02 5
1996	66	695,086 <sup>1</sup>	39,079,076 <sup>2</sup>	56.22 <sup>3</sup>	\$55.00 4	54.72 <sup>5</sup>
1998	85	856,829 <sup>1</sup>	54,296,022 <sup>2</sup>	63.37 <sup>3</sup>	\$60.00 4	56.92 <sup>5</sup>
1999	88	851,845 <sup>1</sup>	53,553,089 <sup>2</sup>	62.87 <sup>3</sup>	\$63.50 4	59.13 <sup>5</sup>
2000	78	648,621 <sup>1</sup>	40,560,540 2	62.53 <sup>3</sup>	\$62.50 4	60.80 <sup>5</sup>
2001	83	493,752 <sup>1</sup>	36,196,053 <sup>2</sup>	73.31 <sup>3</sup>	\$68.00 4	63.08 <sup>5</sup>
2002	105	1,127,085 <sup>1</sup>	97,998,501 <sup>2</sup>	86.95 <sup>3</sup>	\$68.00 4	71.04 5
2003	114	1,708,572 <sup>1</sup>	165,859,117 <sup>2</sup>	97.07	\$70.00 4	81.61 5
2004	126	977,400 <sup>1</sup>	78,528,140	80.34		84.58 <sup>5</sup>

\* Combined the number of projects from the three different bridge graphs

<sup>1</sup> Combined the quantities from the three previous tables together.

<sup>2</sup> Combined the total costs from the three previous tables together.

<sup>3</sup> Total Costs divided by quantity.

<sup>4</sup> Average of the Price Used in Needs from the four previous tables.

<sup>5</sup> Used past 5 year's costs divided by the past 5 year's quantity.

Costs.xls
Railroad Bridge
E 2004 book/
cel/2004/JUNE 2004 t
N:\msas\ext

\$8,000	
SUBCOMMITTEE'S RECOMMENDED PRICE FOR THE 2004 NEEDS STUDY IS	PER LIN. FT. FOR ADDITIONAL TRACKS

\$9,600	
SUBCOMMITTEE'S RECOMMENDED PRICE FOR THE 2004 NEEDS STUDY IS	PER LINEAL FOOT FOR THE FIRST TRACK

Needs	Number	Number	Bridge	Bridge Cost	Cost per Lin. Ft.	Cost per Lin. Ft.
Year	of Projects	of Tracks	Length	per Lin. Ft. (Actual)	of 1st Track (Unit Price Study)	of Additional Tracks
						(Unit Price Study)
1986	0	0			\$2,250	\$1,750
1987	0	0			2,250	1,750
1988	-	ო	103.71	\$13,988	2,250	1,750
1989	7	~	161.51	8,499	2,250	1,750
		~	317.19	5,423	2,250	1,750
1990	~	2	433.38	8,536	4,000	3,000
1991	0	0			4,000	3,000
1992	-	-	114.19	7,619	4,000	3,000
1993	-	-	181.83	7,307	5,000	4,000
1994	0	0			5,000	4,000
1995	0	0			5,000	4,000
1996	-	<del></del>	80.83	12,966	5,000	4,000
1998	~	<del></del>	261.02	8,698	8,000	6,500
1999	~	<del></del>	150.3	8,139	8,200	6,700
2000	7	<del></del>	108.58	12,112		
		<del></del>	130.08	10,569	000'6	7,500
2001	-	-	163.00	14,182	9,000	7,500
2002	0				000'6	7,500
2003	0				9,300	7,750
2004						

19-Apr-04

**RAILROAD BRIDGES OVER HIGHWAYS** 

# **OTHER**



# TOPICS



76
10

	F Needs Cost for	Percent of Total		Needs Cost/Mile for Complete	Needs Cost for	Percent of Total		Needs Cost/Mile Comp & Part. for Partial % of Total	Comp & Part. % of Total
YEAR	Complete SS	Needs	Miles	SS Contruction	Partial SS	Needs	Miles	SS Contruction	Needs
1999	\$204,034,860	10.49	835.03	\$246,000	\$53,341,590	2.46	694.72	\$79,000	12.95
2000	210,027,230	9.90	851.22	248,500	56,127,168	2.32	719.36	80,200	12.22
2001	217,052,080	8.64	879.26	248,000	58,275,528	2.31	742.44	80,400	10.95
2002	227,244,632	8.48	898.22	254,200	61,585,152	2.30	771.19	81,600	10.78
2003	229,035,824	8.11	891.70	257,375	63,307,677	2.24	780.64	82,700	10.35

FIVE YEAR HISTORY OF STORM SEWER NEEDS

Trunk Highway Turnbacks eligible for TB Funding are not included

#### STORM SEWER NEEDS

#### Appropriate life cycle of Storm Sewer

Report for the Needs Study Subcommittee April 13, 2004

At the direction of the Municipal Screening Board, the Needs Study Subcommittee (NSS) discussed Storm Sewer Needs at its September 10, 2003 meeting. The following is an excerpt from the minutes of that meeting:

Marshall then explained the issue of Complete Storm Sewer Needs where there is existing storm sewer. Currently, Municipalities are only eligible for Complete Storm Sewer Needs if the segment doesn't have any storm sewer. In some cases, there have been situations where the storm sewer is old, large development has occurred, or parking lots installed, etc. where is seems logical to receive complete needs as the existing system will need to be completely replaced. The committee discussed at length and reviewed the process, State Aid involvement, how often this has been requested. It was the consensus of the committee that there seems to be adequate checks and balances in the process and recommended no change to process.

# The following excerpt is taken from the first day (discussion day) of the October 2003 Municipal Screening Board meeting

Johnston stated that two items were discussed by the Subcommittee at their Sept. 2003 meeting, noting that Tim Schoonhoven, NSS Chair, was available for any explanation of their recommendations.

1. <u>Storm Sewer Needs</u>:

Johnston said that currently, if storm sewer is in place, a city can only generate needs for partial storm sewer. Complete storm sewer needs are allowed by the DSAE on a case-by-case basis due to age, condition, capacity, etc. The subcommittee recommended no change to the current procedure. Schoonhoven stated that many options are available but that the committee felt that the current system is workable with discretion given to the DSAE.

Ahl said that Metro had discussed this and would prefer a uniform standard across the state where a life cycle is established but still retains DSAE discretion. Suihkonen said that Dist. 1 felt there was no need for change; things are probably more uniform than people think. Metso said that he felt the standard shouldn't be based on life cycle alone. Behm stated that he questions capacity, age, & condition before making a decision.

## The following excerpt is taken from the second day (motion day) of the October 2003 Municipal Screening Board meeting:

1. Storm Sewer Needs (Page 39).

Ahl opened the discussion by making a motion to refer this item back to the Needs Study Subcommittee for establishment of an appropriate life cycle that is consistent with other life cycles in place. This motion was seconded by Weiss.

Gustafson opened the floor for discussion. Kildahl commented that this may hinder the committee and would instead recommend sending it back to the committee without a specific task. Sonnenberg felt that the important issue was equity and consistency. Life cycle is not necessarily a means of determining effective life, but more for establishing that consistency. Metso questioned other life cycles in place. Johnston replied that only bridges are done in this way, on a 35-year cycle. Schoonhoven stated that we're really looking at a 40-year cycle -20 years with no needs and 20 years with needs. Discretion between partial and full needs seems to be the question. Doing away with partial needs simplifies the process and eliminates the discretion. This might be more equitable but less representative of the system. Drake questioned whether the computer software would need to be modified. Johnston said that it would, but they could wait and make several changes at once using a consultant. Murray stated that the percentage of storm sewer needs is underrepresenting what's being spent currently. If you receive full needs at 20 years, is this more in line with actual spending? Johnston suggested that Kjonaas or Skallman sit in on the discussion if this is referred back to the Needs subcommittee. Skallman stated that several DSAEs could attend as well and give their perspective on the issue. Metso agrees with subcommittee's recommendation to leave system as is, but feels that if we are going to do something, it should be done on a consistent basis. He described the example of base, which is eligible for full needs after 20 years, but his city is not necessarily replacing it on that time frame. Reinstating full needs in line with the rest of the roadway provides consistency.

Gustafson called for a vote on the motion. Motion carried without opposition.

#### DISCUSSION POINTS

- 1) Generate Complete Needs after 20 years, same as other Roadway Needs items
  - a. Urban segments, whether Inplace SS or not?
  - b. No longer have Partial SS Needs?
  - c. Only allow Partial SS Needs on Widening Needs?
- 2) Generate Partial SS Needs after 20 years from last year graded and Complete Needs after XX years.
  - a. Urban segments, whether Inplace SS or not?
  - b. Would require a new Report in the Needs Update program (Data Collector).
  - c. City would reinstate Needs itself- like other Needs.
  - d. Criteria for DSAE approval?
- 3) Generate Complete Needs on a different life cycle than roadway needs- like structures are on a 35 year lifecycle, i.e. 30, 40 or 50 years.
  - a. New report in (Data Collector)
  - b. New field in Data Collector program
  - c. Reprogramming of Computation Program
  - d. New tables behind the scenes in the Data Collector program
  - e. DSAE approval for generating Needs differently than the normal
- 4) Leave Storm Sewer Needs as is
  - a. Propose state wide guidelines for DSAE approval of Complete SS where existing
- 5) Leave SS Needs as is
  - a. Require only one criteria for DSAE approval- The city must convince the DSAE that the next construction project on that roadway will include Storm Sewer Construction.
- 6) Leave SS Needs as is
  - a. Leave DSAE approval as is. Each segment looked at and approved on an individual basis.
- 7) "After the Fact" Storm Sewer Needs adjustment
  - a. Generate Needs on amount actually spent
    - b. Length of adjustment?

Discussion Point 1 2003 Storm Sewer Needs te SS Needs were reinstated after 20 ve

# if complete SS Needs were reinstated after 20 years Needs Value decreases from \$19.08 per \$1000 to \$18.24

Allocation increases for 52 cities and decreases for 81 cities

Currently, 10.36% of Needs are based on SS. In proposed method, 14.06% would be based on SS

Senter Sark	Current Complete Storm	Current	Sewer Needs	Increase in	•	a citor a citor	A 11 11 12
	elete Storm				Construction	Construction	Allocation if
		Partial Storm	if all Partial	Needs	Needs	Needs	Complete SS Needs
ALBERT LEA ALEXANDRIA ANDOVER ANDKA ANDKA ARDEN HILLS ARDEN HILLS ALUSTIN BAXTER BAXTER BAXTER BAXTER BANINGTON BLAINE BLAINE BLOMINGTON BRAINERD BROOKLYN PARK BUFFALO	Sewer Needs	Sewer Needs	were Complete		Apportionment	Apportionment	Reinstated after 20 Years
ALEXANDRIA ANDOVER ANDKA ANDKA ARDEN HILLS ARDEN HILLS ALUSTIN BAXTER BAXTER BAXTER BAXTER BANINGTON BLAINE BLOMINGTON BRAINERD BROOKLYN CENTER BROOKLYN PARK BUFFALO	\$221,343	\$789,785	\$2,679,274	\$1,668,146	\$335,643	\$351,263	\$15,620
ANDOVER ANOKA APPLE VALLEY ARDEN HILLS AUSTIN BAXTER BANIDJI BIG LAKE BEMIDJI BIG LAKE BLOMINGTON BLOMINGTON BRAINERD BROOKLYN PARK BUFFALO BUFFALO	990,894	348,994	2,077,017	737,129	227,635	231,039	3,404
ANOKA APPLE VALLEY ARDEN HILLS AUSTIN BAXTER BAXTER BAXTER BEMIDJI BIG LAKE BLANE BLOMINGTON BLOMINGTON BRAINERD BROOKLYN PARK BUFFALO BUFFALO	3,886,367	0	3,886,367	0	481,264	460,034	(21,230)
APPLE VALLEY ARDEN HILLS AUSTIN BAXTER BATER BEMIDJI BIG LAKE BIC AKE BLONINGTON BLONNINGTON BLONNINGTON BLONKLYN CENTER BROOKLYN PARK BUFFALO	1,912,306	66,160	2,118,206	139,740	212,767	205,930	(6,837)
ARDEN HILLS AUSTIN BAXTER BEMIDJI BIG LAKE BIG LAKE BLOOMINGTON BROMINGTON BROOKLYN CENTER BROOKLYN PARK BUFFALO BUDFALO	2,066,726	1,173,513	5,718,877	2,478,638	607,510	625,921	18,411
AUSTIN BAXTER BEMIDJI BIG LAKE BILAINE BLOOMINGTON BLOOMINGTON BROOKLYN CENTER BROOKLYN PARK BUFFALO BUFFALO	970,305	18,194	1,026,928	38,429	106,658	102,654	(4,004)
BAXTER BEMIDJI BIG LAKE BLAINE BLOOMINGTON BLOOMINGTON BROOKLYN CENTER BROOKLYN PARK BUFFALO BUDFALO	1,842,812	559,052	3,582,667	1,180,803	584,353	580,113	(4,240)
BEMIDJI BIG LAKE BLAINE BLOOMINGTON BLOOMINGTON BROOKLYN CENTER BUFFALO BUFFALO	1,438,728	100,894	1,752,726	213,104	150,312	147,568	(2,744)
BIG LAKE BLAINE BLOOMINGTON BRAINERD BROOKLYN CENTER BUFFALO BUFFALO	342,312	264,640	1,165,912	558,960	195,098	196,687	1,589
BLAINE BLOOMINGTON BRAINERD BROOKLYN CENTER BUFFALO BUFFALO	975,454	31,426	1,073,257	66,377	104,094	100,713	(3,381)
BLOOMINGTON BRAINERD BROOKLYN CENTER BLOFFALO BUFFALO	4,179,776	222,463	4,872,115	469,876	516,202	502,002	(14,200)
BRAINERD BROOKLYN CENTER BROOKLYN PARK BUFFALO	8,302,937	2,106,369	14,858,278	4,448,972	1,808,591	1,809,957	1,366
BROOKLYN CENTER BROOKLYN PARK BUFFALO	185,311	484,622	1,693,529	1,023,596	155,311	167,129	11,818
BROOKLYN PARK BUFFALO	715,503	697,988	2,887,748	1,474,257	350,006	361,456	11,450
BUFFALO	2,470,804	543,339	4,161,758	1,147,615	529,474	527,050	(2,424)
	2,113,055	95,105	2,409,036	200,876	273,015	264,635	(8,380)
BURNSVILLE	1,562,269	1,164,416	5,186,109	2,459,424	723,142	736,101	12,959
CAMBRIDGE	947,144	73,603	1,176,208	155,461	158,020	154,476	(3,544)
CHAMPLIN	1,281,732	39,696	1,405,272	83,844	173,976	167,831	(6,145)
CHANHASSEN	1,474,760	176,978	2,025,543	373,805	189,764	188,402	(1,362)
CHASKA	1,328,056	133,147	1,742,430	281,227	221,118	216,494	(4,624)
CHISHOLM	620,277	156,303	1,106,716	330,136	113,071	114,105	1,034
CLOQUET	2,344,693	90,143	2,625,232	190,396	315,383	304,944	(10,439)
COLUMBIA HEIGHTS	967,732	371,323	2,123,346	784,291	245,921	249,378	3,457
COON RAPIDS	362,899	573,938	2,149,082	1,212,245	636,177	630,224	(5,953)
CORCORAN	275,391	0	275,391	0	130,931	125,155	(5,776)
COTTAGE GROVE	3,165,717	426,732	4,493,772	901,323	571,570	562,797	(8,773)
CROOKSTON	671,750	309,298	1,634,333	653,285	342,989	339,775	(3,214)
CRYSTAL	1,485,057	310,125	2,450,213	655,031	272,921	272,829	(92)
DETROIT LAKES	1,320,337	118,261	1,688,383	249,785	169,739	166,807	(2,932)
DULUTH	5,376,576	2,817,589	14,145,342	5,951,177	2,229,950	2,243,219	13,269

Iotal Storm Partial Storm Fartial Storm Sever Needs         Iotal Storm I all Partial Needs         Actual 2004 Apportionment           Partial Storm Sever Needs         I all Partial Sever Needs         Increase in S3394.455         Actual 2004 S3.994.455         Actual 2004 S47.165           D         \$1,098,256         \$3.394.459         \$2,319,684         \$47.176           D         76,911         1.2170,864         0.415,530         0.415,530           D         76,911         1.2125,543         162,448         55.607           D         76,911         1.212,540         1813.127         609,040           D         76,911         3.3934.3991         162,448         3.59,07           D         76,913         3.394,9291         1.813.127         609,040           D         76,914         3.59,07         3.59,07         3.59,07           D         3.53,918         2.774,500         1.813.127         609,040           D         771,591         3.019,009         1.62,0718         3.59,07           D         3.53,516         1.313.521         609,040         35,907           D         3.53,516         1.313.521         3.51,521         3.51,521           D         2.11,551         3.199,1773								
Try         Complete Stom         Partial Stom         I all Partial         Needs         Server Needs		Current	Current	I otal Storm Sewer Needs	Increase in	Actual 2004 Construction	Proposed 2004 Construction	Unterence in 2004 Allocation if
Image: Service in the service interval in the service interval in the service interval interval in the service interval inte	MINICIPALITY	Complete Storm	Partial Storm	if all Partial were Complete	Needs	Needs Apportionment	Needs	Complete SS Needs Reinstated after 20 Years
IEL         3,170,864         0         3,170,864         0         0           ND FORKS         1,006,339         76,911         1,245,668         162,448           RIE         3,384,488         6,814         7,527         3,834,890         158,954           RIE         3,384,488         6,814         2,817,554         1,53,234         158,954           RIS         3,600,679         75,527         3,83,980         158,954         158,900           RIS         3,600,679         75,554         4,712,540         158,900         153,224           RIS         14,657         4,813         2,744,900         153,323         158,090           RIS         146,754         4,712,540         13,3,659         155,721         13,323           MLEV         1,280,579         46,312         286,324         113,539         158,300           MLEV         1,335,781         598,781         368,426         3,199,176         124,460           MLEV         1,335,781         963,730         127,420         124,460         10,133,65           MLEV         1,335,781         598,748         3,199,176         1264,647         0           MLEV         1,335,781         598,	FAGAN	S576.519	\$1 098 256	\$3 994 459	\$2 319 684	\$474 716	\$496.085	\$21.369
UD FORKS         1,006,339         76,911         1,245,698         162,448           RIE         2,574,341         1,355,536         1,313,17         586,456         1,813,17           RIE         2,574,341         1,5257         3,834,890         158,356         143,324           RIE         2,354,488         67,814         3,555,56         143,324         143,323           RIE         3,360,679         75,257         3,834,890         158,357         143,323           RIE         3,360,679         75,257         3,834,890         15,721           RIE         1,644,754         7,443         2,743,691         15,721           ON         2,416,754         7,443         2,743,691         15,721           ON         2,446,07         7,443         2,44,607         13,539           ON         2,335,781         990,389         1,264,417         13,539           ALLEY         1,335,781         991,761         1,264,447           DIOS         3,196,605         4,34,403         31,991,76         1,264,447           ONN         2,335,781         991,761         1,264,447         31,353,581           ONN         3,335,334         1,353,532,41         13,5	EAST BETHEL	3,170,864	0	3,170,864	0	415,350	397,028	(18,322)
RIE         3,574,941         1,359,588         7,806,186         2,871,657           7         3,00,579         758,426         4,712,540         1,813,127           7         3,00,579         758,436         158,356         143,224           7         3,344,488         67,814         3,585,536         143,224           7         141,557         46,312         2,856,536         143,224           0         2,416,754         7,413         2,439,918         15,721           0         2,416,754         7,413         2,439,918         15,721           0         2,5155         444,099         2,674,129         938,005           0         2,1566         5,5263,324         113,559           0         1,222,025         444,099         16,5713         267,529           0         2,036,000         15,713         244,400         15,713           0         1,235,781         598,748         3,199,176         12,84,47           0         1,335,981         1,261,473         14,305         17,335           0         2,335,867         1,335,181         267,523         17,4305           0         2,335,867         1,337,183         174,7	EAST GRAND FORKS	1,006,339	76,911	1,245,698	162,448	256,827	248,461	(8,366)
2.040.987         868.426 $4,712,540$ 1.813.127           3.800.679 $75,257$ $3.824.890$ $18.13.12$ $3.800.679$ $75,257$ $3.824.890$ $15,721$ $3.800.679$ $75,312$ $3.824.890$ $15,721$ $3.800.679$ $75,312$ $2.874.129$ $97,818$ $1.557.55$ $46,312$ $2.85,687$ $97,818$ $1.22416,754$ $1.2435,781$ $15,721$ $938,005$ $0.77,000$ $7.71,591$ $3.019,009$ $15,721$ $0.17,000$ $771,591$ $3.019,0109$ $15,223$ $0.17,700$ $7.341,017$ $287,253$ $14.460$ $7.74,701$ $3.199,176$ $1284,647$ $1284,647$ $7.735,891$ $108,766$ $15,713$ $287,253$ $0.000$ $7.74,701$ $3.74,60$ $784,647$ $7.74,701$ $3.795,009$ $15,713$ $277,250$ $0.000$ $1.335,781$ $0.0100$ $0.77,680$ $0.000$ $1.335,050$ $1.010,050$ $257,$	EDEN PRAIRIE	3,574,941	1,359,588	7,806,186	2,871,657	738,319	758,128	19,809
( $1, 60, 679$ $75, 257$ $384, 480$ $15, 236$ $15, 236$ $15, 236$ $15, 236$ $15, 236$ $15, 221$ $1, 667, 486$ $36, 916$ $7, 433$ $2, 74, 506$ $786, 090$ $15, 721$ $1, 667, 486$ $36, 916$ $7, 433$ $2, 439, 918$ $15, 721$ $1, 667, 486$ $5, 800$ $53, 300$ $53, 300$ $53, 300$ $MLE$ $1, 667, 480$ $56, 3123$ $130, 300$ $16, 7, 700$ $71, 130$ $1, 1, 292, 025$ $444, 099$ $2, 64, 470$ $3, 196, 605$ $43, 607$ $126, 231, 24$ $1, 1, 233, 781$ $903, 339$ $126, 531, 24$ $133, 567$ $91, 33, 188$ $1, 15, 713$ $1, 271, 376$ $1, 284, 460$ $1, 284, 460$ $00$ $0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0$	EDINA	2,040,987	858,426	4,712,540	1,813,127	609,040	615,244	6,204
(6)         (7) <td>ELK RIVER</td> <td>3,600,679</td> <td>75,257</td> <td>3,834,890</td> <td>158,954</td> <td>451,166</td> <td>434,164</td> <td>(17,002)</td>	ELK RIVER	3,600,679	75,257	3,834,890	158,954	451,166	434,164	(17,002)
EIGHTS         141,557         46,312         286,687         97,818         578,090           IGN $1,657,498$ 358,918 $2,374,506$ $58,090$ $58,090$ ALLS $1,222,025$ $44,099$ $2,674,129$ $93,057$ $58,090$ ALLS $1,222,025$ $44,099$ $2,674,129$ $938,057$ $13,35,399$ ALEY $1,335,739$ $122,515$ $5,263,324$ $113,539$ $161,700$ $1,222,078$ MLEY $1,335,739$ $126,505$ $5,263,324$ $113,539$ $104,005$ MLEY $1,336,739$ $26,759$ $26,753$ $104,005$ $124,460$ MN $2,355,600$ $15,713$ $1,264,617$ $31,68$ $0$ MN $2,355,600$ $15,713$ $1,775,890$ $592,148$ $63,375$ MN $2,355,600$ $1,775,890$ $597,148$ $63,375$ $0$ MN $2,375,600$ $1,775,890$ $597,148$ $63,375$ $0$ MN $1,713,775,890$ $290,352$	FAIRMONT	3,384,488	67,814	3,595,536	143,234	467,120	449,127	(17,993)
1.67.498         358,918 $2.774,506$ $758,090$ ON $2.416,754$ $7.443$ $2.439,918$ $15,721$ ALLE $1.297,173$ $2.67,253$ $113,5306$ KE $5.096,0205$ $5.37,595$ $5.263,324$ $113,5306$ KE $5.096,0205$ $5.37,595$ $5.263,324$ $113,5306$ MLL $1.335,781$ $5.936,791$ $3.019,009$ $1.629,718$ $2.67,253$ ALLEY $1.335,781$ $5.936,700$ $0.0$ $3.351,030$ $1.426,467$ MNN $2.335,867$ $0.74,701$ $33,168$ $0.74,701$ $33,168$ MNN $2.335,305$ $126,503$ $12,670$ $0.14,806$ $0.620,726$ MNN $2.335,305$ $0.33,305$ $10,63,409$ $950,570$ $0$ MNN $2.335,305$ $0.14,306$ $971,305$ $971,193$ MNN $2.335,305$ $0.014,306$ $971,306$ $971,193$ MNN $2.335,305$ $0.00$ $0.03,570$ $0.00$	FALCON HEIGHTS	141,557	46,312	285,687	97,818	35,907	36,107	200
ON $2.416, 754$ $7,443$ $2.439,918$ $15,721$ ALLS $1,282,025$ $544,099$ $2.674,129$ $938,005$ KE $5(70,000$ $771,595$ $5.674,129$ $938,005$ MLE $1,282,026$ $544,099$ $1620,739$ $1629,739$ MLEY $1,335,781$ $598,748$ $3.199,176$ $1264,647$ PIDS $1,335,816$ $500,961$ $1,297,173$ $267,253$ ALLEY $1,335,867$ $598,748$ $3.199,176$ $1264,647$ PIDS $31,961,76$ $1264,647$ $014,306$ $937,316$ WN $2.385,867$ $0$ $367,306$ $321,418$ $0$ OWN $2.385,867$ $0$ $630,570$ $0$ $0$ $0$ ONAL FALLS $138,933$ $305,163$ $413,560$ $592,148$ $0$ ONAL FALLS $138,933$ $305,163$ $413,560$ $592,148$ $0$ ONAL FALLS $138,933$ $305,163$ $413,560$ <th< td=""><td>FARIBAULT</td><td>1,657,498</td><td>358,918</td><td>2,774,506</td><td>758,090</td><td>480,781</td><td>473,400</td><td>(7,381)</td></th<>	FARIBAULT	1,657,498	358,918	2,774,506	758,090	480,781	473,400	(7,381)
ALLS         1,282,025         44,099         2,674,129         938,005           KE         5,096,030         53,755         5,263,324         113,539           MLEY         1,357,81         5,096,030         53,755         5,263,324         113,539           PIDS         1,356,781         598,748         3,199,176         1,264,647         267,553           PIDS         1,335,781         598,748         3,199,176         1,264,647         264,647           PIDS         1,335,781         598,748         3,199,176         1,264,647         244,460           NNN         2,385,940         200,961         1,984,361         424,460         3,198           ONN         2,385,305         45,617         0         23,716         923,148           ONN         2,385,305         459,4107         0         23,128           ONN         1,175,890         592,148         0         0           ONN         2,385         1,775,890         592,148         0           ONN         1,178,779         459,407         0         0           ONN         1,178,779         450,407         971,4193           ONN         1,178,3303         305,506         81	FARMINGTON	2,416,754	7,443	2,439,918	15,721	284,997	272,712	(12,285)
KE         5,096,030         53,755         5,263,324         113,539           RILEY $617,700$ $771,591$ $3019,009$ $1,629,718$ $267,253$ ALLEY $1,385,781$ $592,748$ $3,199,176$ $1,264,647$ PIDS $1,385,781$ $592,148$ $3,199,176$ $1,264,647$ PIDS $1,386,605$ $49,620$ $3,51,030$ $104,805$ NVN $2,385,867$ $0,2380$ $0,03,390$ $104,805$ NVN $2,385,867$ $0,236,90$ $104,805$ $92,148$ OWN $2,385,867$ $0,236$ $43,651$ $32,148$ OWN $2,385,867$ $0,0$ $0,3,163$ $1,776,805$ $592,148$ ONAL FALLS $138,983$ $305,163$ $414,551$ $001,768$ $444,551$ ONAL FALLS $138,883$ $305,163$ $1,006,570$ $0$ $0$ ONAL FALLS $138,833$ $305,163$ $414,551$ $202,623$ $414,551$ ONAL FALLS $138,833$ $37,215$	FERGUS FALLS	1,292,025	444,099	2,674,129	938,005	409,753	410,028	275
617,700         771,591         3,019,009         1,629,718           MLLEY         1,335,781         5,98,748         1,297,173         257,253           PIDS         1,335,781         5,98,748         1,297,173         257,253           PIDS         1,335,781         5,98,748         1,297,173         257,253           PIDS         3,196,605         49,620         3,51,030         104,805           NNN         2,385,867         0         2,74,701         3,188           OWN         2,385,867         0         0         2,74,701         3,188           OWN         2,385,867         0         2,74,701         3,188         74,701         3,188           OWN         2,385,867         0         0         6,30,570         0         10,4,805           OWN         2,375         80,075,803         3,65,664         87,3,375         0           ONAL FALLS         1,38,693         3,582,660         801,758         0         0           ONAL FALLS         138,683         3,751,693         3,582,660         801,758         0           ONAL FALLS         1,38,693         3,751,693         3,582,660         801,756         744,964         1	FOREST LAKE	5,096,030	53,755	5,263,324	113,539	410,173	394,150	(16,023)
(1.25)         (1.25,31)         (1.297,173)         (267,253)           ALLEY         1,335,781         598,748         3,199,176         1.264,647           PIDS         1,355,800         15,713         3,199,176         1.264,647           PIDS         1,355,800         15,713         774,701         33,188           NVN         2,385,867         0         2,385,867         0         104,805           NVN         2,385,867         0         2,385,867         0         0         2,385,867         0           NVN         2,385,867         0         0         2,385,867         0         0         0         3,073,057         104,805         592,148           NVN         2,385,867         0         0         2,385,867         0	FRIDLEY	617,700	771,591	3,019,009	1,629,718	236,944	256,217	19,273
ALLEY         1,335,781         598,748         3,199,176         1,264,647           PIDS         1,358,940         200,961         1,984,361         424,460           725,800         15,713         7,317,101         33,188           NNN         2,385,867         0         2,385,867         0           NNN         2,385,867         0         2,385,867         0         0           NNN         2,385,867         0         2,385,867         0         0           OWN         2,385,867         0         2,385,867         0         0           OWN         2,385,867         0         2,385,867         0         0           OWN         2,386,867         45,4157         4,504,072         971,193           ONAL FALLS         1,178,779         413,500         2,44,551         0           ONAL FALLS         1,36,409         37,516         810,756         817,158         1           ONAL FALLS         136,401         37,553         44,551         1         1           ONAL FALLS         136,401         37,756         810,756         817,158         1         1           ONAL FALLS         136,401         37,553         3	GLENCOE	903,389	126,531	1,297,173	267,253	143,249	141,804	(1,445)
PIDS         1,356,940         200,961         1,984,361         424,460           3,196,605         49,620         3,351,030         104,805           725,800         15,713         774,701         33,188           NWN         2,385,867         0         2,385,867         0           0         3,073,067         459,812         4,504,072         971,193           0         3,073,067         459,812         4,504,072         971,193           0         630,570         0         630,570         0         10           0         630,570         0         630,570         0         10           0         630,570         0         630,570         0         10           0         630,570         0         592,148         73,375           0NAL FALLS         138,983         305,163         1,086,697         644,551           0NAL FALLS         138,983         305,163         37,156         44,551           0NAL FALLS         138,983         305,163         37,375         44,561           0NAL FALLS         138,983         37,215         644,551         44,561           0NT ANDA         136,409         37,322	GOLDEN VALLEY	1,335,781	598,748	3,199,176	1,264,647	340,561	348,605	8,044
3,196,605         49,620         3,351,030         104,805           7Z5,800         15,713         774,701         33,188           7XM         2,385,867         0         2,385,867         0           3,073,067         459,812         4,504,072         971,193         0           3,073,067         459,812         4,504,072         971,193         0           0M         1,178,779         413,500         592,148         0           0NAL FALLS         13,073,067         450,653         873,375         0           0NAL FALLS         136,409         37,516         813,375         0           0NAL FALLS         136,409         37,516         810,758         644,551           0NAL FALLS         136,409         37,215         810,732         78,604           0NAL FALLS         136,409         37,215         810,732         78,604           0NAL FALLS         136,409         37,215         810,752         78,604           0NAL FALLS         136,409         37,215         810,752         78,604           0NAL FALLS         136,013         37,215         810,752         78,604           0NAL FALLS         37,215         810,732	GRAND RAPIDS	1,358,940	200,961	1,984,361	424,460	217,003	215,173	(1,830)
NN         725,800         15,713         774,701         33,188           DWN         2,385,867         0         2,385,867         0         0           3,073,067         459,812         4,504,072         971,193         0           903,389         280,353         1,775,890         592,148 $903,389$ 280,353         1,775,890         592,148 $003,389$ 280,353         1,775,890         592,148 $03,389$ 280,353         1,775,890         592,148 $01$ 1,78,779         413,500         2,465,654         873,375 $01$ 1,18,779         375,593         3,582,660         801,758 $01$ 1,38,983         305,163         1,0156,784         1 $01$ 138,093         37,215         810,732         78,604 $01$ 432,302         0,344,964         205,657         454,155 $01$ 645,754         500,335         8,014,665         1,056,784         1 $01$ 649,491         37,215         810,732         78,604         1 $01$ 644,756         0,324,992 <t< td=""><td>HAM LAKE</td><td>3,196,605</td><td>49,620</td><td>3,351,030</td><td>104,805</td><td>397,789</td><td>382,153</td><td>(15,636)</td></t<>	HAM LAKE	3,196,605	49,620	3,351,030	104,805	397,789	382,153	(15,636)
DWN         2,385,867         0         2,385,867         0         0           3,073,067         459,812         4,504,072         971,193         971,193           903,389         280,353         1,775,890         592,148         97,193           00         630,570         0         630,570         0         0           01         1,178,779         413,500         2,465,654         873,375         0           01         1,178,779         413,500         2,465,654         873,375         0           01         1,178,779         413,500         2,465,654         873,375         0           01         1,178,779         413,500         2,465,654         873,375         0           01         1,178,779         413,500         2,445,51         0         0         0           01         1,166,712         2,401,309         37,215         810,1,758         810,758         454,155           01         6,94,913         37,215         810,732         78,604         1         1           01         6,94,913         37,215         810,732         78,667         810,726         1         1           01         1,456,745	HASTINGS	725,800	15,713	774,701	33,188	231,153	221,562	(9,591)
3,073,067 $459,812$ $4,504,072$ $971,193$ $903,389$ $280,353$ $1,775,890$ $592,148$ $830,570$ $630,570$ $0$ $630,570$ $0$ $00.$ $630,570$ $0$ $630,570$ $0$ $0.$ $630,570$ $0$ $630,570$ $0$ $0.$ $1,178,779$ $413,500$ $2,465,654$ $873,375$ $0.$ $1,178,779$ $413,500$ $2,465,654$ $873,375$ $0.$ $138,983$ $305,163$ $1,088,697$ $644,551$ $0.$ $138,983$ $305,163$ $1,088,697$ $644,551$ $0.$ $138,409$ $95,932$ $434,964$ $202,623$ $0.$ $432,390$ $215,020$ $1,101,565$ $454,155$ $0.$ $664,913$ $37,215$ $8,014,665$ $1,056,784$ $1$ $0.$ $6,457,546$ $500,335$ $8,014,665$ $1,056,784$ $1$ $0.$ $6,457,546$ $500,335$ $8,014,665$ $1,056,784$ $1$ $0.$ $1,465,745$ $47,139$ $1,603,449$ $99,565$ $0.$ $0.$ $3,242,928$ $0,14,665$ $1,056,784$ $1$ $0.$ $1,466,745$ $47,139$ $1,603,449$ $99,565$ $0.$ $0.$ $3,242,928$ $8,014,665$ $1,056,784$ $1$ $0.$ $0.$ $3,242,928$ $0,074,93$ $0,075,328$ $684,726$ $0.$ $0.$ $0.$ $0.$ $0.$ $0.$ $0.$ $0.$ $0.$ $0.$ $0.$ $0.$ $0.$ <tr< td=""><td>HERMANTOWN</td><td>2,385,867</td><td>0</td><td>2,385,867</td><td>0</td><td>211,921</td><td>202,573</td><td>(9,348)</td></tr<>	HERMANTOWN	2,385,867	0	2,385,867	0	211,921	202,573	(9,348)
903,389 $280,353$ $1,775,890$ $592,148$ $630,570$ $0$ $630,570$ $0$ $0$ $0NAL FALLS$ $1,178,779$ $413,500$ $2,465,654$ $873,375$ $0NAL FALLS$ $138,983$ $305,163$ $1,088,697$ $644,551$ $0NAL FALLS$ $136,909$ $379,593$ $3,582,660$ $801,758$ $0NAL FALLS$ $136,409$ $95,932$ $434,964$ $202,623$ $0NAL FALLS$ $136,409$ $95,932$ $434,964$ $202,623$ $0NAL FALLS$ $136,409$ $37,215$ $810,732$ $78,604$ $1,36,403$ $37,215$ $810,732$ $78,604$ $1$ $0$ $64,57,546$ $500,335$ $8,014,665$ $1,056,784$ $1$ $0$ $64,57,45$ $47,139$ $1,603,449$ $99,565$ $0$ $3,242,928$ $0$ $3,242,928$ $0$ $0$ $0$ $1,456,745$ $47,139$ $1,603,449$ $99,565$ $ADA$ $1,096,418$ $324,117$ $2,705,096$ $473,369$ $0$ $774,699$ $52,101$ $936,845$ $110,045$ $1$ $774,699$ $52,101$ $936,845$ $110,045$ $0$ $774,699$ $52,101$ $936,845$ $110,045$ $0$ $774,699$ $52,011$ $5,924,775$ $686,473$ $1$ $0$ $3,814,302$ $633,853$ $5,973,678$ $1,496,965$ $0$ $701,328$ $694,776$ $696,733$ $1,496,965$ $0$ $774,963$ $3,842,609$ $1,496,965$ $0$	HIBBING	3,073,067	459,812	4,504,072	971,193	769,763	753,521	(16,242)
630,570         0         630,570         0         630,570         0           ON         1,178,779         413,500         2,465,654         873,375           ONAL FALLS         138,983         305,163         1,088,697         644,551           ONAL FALLS         138,983         305,163         1,088,697         644,551           ONAL FALLS         136,409         95,932         434,964         202,623           NT         136,409         95,932         434,964         202,623           NT         136,409         95,932         434,964         202,623           NT         432,390         215,020         1,101,565         454,155           NT         6,457,546         500,335         8,014,665         1,056,784         1           S         3,242,928         0         3,242,928         0         0           J         1,456,745         47,139         1,603,449         99,565         1         0           J         1,456,745         47,139         1,603,449         99,565         1         0           J         714,699         52,101         216,328         684,726         1         0         1         0         1 <td>HOPKINS</td> <td>903,389</td> <td>280,353</td> <td>1,775,890</td> <td>592,148</td> <td>185,545</td> <td>188,161</td> <td>2,616</td>	HOPKINS	903,389	280,353	1,775,890	592,148	185,545	188,161	2,616
ON         1,178,779         413,500         2,465,654         873,375         3           ONAL FALLS         138,983         305,163         1,088,697         644,551         1           ONAL FALLS         138,983         305,163         1,088,697         644,551         1           OVE HEIGHTS         2,401,309         379,593         3,582,660         801,758         4           OVE HEIGHTS         2,401,309         37,215         810,732         78,604         1           OVE HEIGHTS         2,401,309         37,215         810,732         78,604         1           O         694,913         37,215         810,732         78,604         1,0           Sold         6,457,546         500,335         8,014,665         1,056,784         1,0           Sold         3,242,928         0         3,242,928         0         3,242,928         0         3,242,928         0         3,242,928         0         3,242,928         0         3,242,928         0         3,242,928         0         3,242,928         0         3,242,928         0         3,242,928         0         3,242,928         0         3,242,928         0         1,603,449         3,242,928         0         1,	HUGO	630,570	0	630,570	0	187,270	179,009	(8,261)
ONAL FALLs         138,983         305,163         1,088,697         644,551         1           VE HEIGHTS         2,401,309         379,593         3,582,660         801,758         4           VE HEIGHTS         2,401,309         379,593         3,582,660         801,758         4           NT         136,409         95,932         434,964         202,623         1           A         432,390         215,020         1,101,565         454,155         1           D         694,913         37,215         810,732         78,604         1,0           S         6,457,546         500,335         8,014,665         1,056,784         1,0           S         3,242,928         0         3,242,928         0         3,242,928         0           ADA         1,456,745         47,139         1,603,449         99,565         1,0           J         ADA         1,096,418         324,117         2,795,096         473,369         2,795,096         473,369         2,795,096         473,369         2,795,096         473,369         2,795,096         7,16         364,726         2,795,096         7,16         364,726         2,795,096         7,369         2,725,099         7,433,369 <td>HUTCHINSON</td> <td>1,178,779</td> <td>413,500</td> <td>2,465,654</td> <td>873,375</td> <td>301,764</td> <td>304,383</td> <td>2,619</td>	HUTCHINSON	1,178,779	413,500	2,465,654	873,375	301,764	304,383	2,619
VE HEIGHTS         2, 401, 309         379, 593         3, 582, 660         801, 758         4           eNT         136, 409         95, 932         434, 964         202, 623         1           int         136, 409         95, 932         434, 964         202, 623         1           int         432, 390         215, 020         1, 101, 565         454, 155         1           int         6, 457, 546         500, 335         8, 014, 665         1, 056, 784         1, 0           int         6, 457, 546         500, 335         8, 014, 665         1, 056, 784         1, 0           int         1, 456, 745         47, 139         1, 603, 449         99, 565         1           int         1, 456, 745         47, 139         1, 603, 449         99, 565         1           int         1, 456, 745         47, 139         1, 603, 449         99, 565         1         1           int         774, 699         52, 101         2, 105, 028         684, 726         2         2         1         1           int         774, 699         52, 101         936, 845         110, 045         2         1         1         1           int         774, 699 <td< td=""><td>INTERNATIONAL FALLS</td><td>138,983</td><td>305,163</td><td>1,088,697</td><td>644,551</td><td>128,072</td><td>134,179</td><td>6,107</td></td<>	INTERNATIONAL FALLS	138,983	305,163	1,088,697	644,551	128,072	134,179	6,107
ENT $136,409$ $95,932$ $434,964$ $202,623$ $1$ 0 $6,457,546$ $5,913$ $37,215$ $810,732$ $78,604$ 0 $6,457,546$ $500,335$ $8,014,665$ $1,056,784$ $1,0$ 0 $6,457,546$ $500,335$ $8,014,665$ $1,056,784$ $1,0$ 0 $1,456,745$ $47,139$ $1,603,449$ $99,565$ $1,10,156,784$ $1,056,784$ $1,056,784$ $1,056,784$ 0 $1,456,745$ $47,139$ $0,14,665$ $1,056,784$ $1,056,784$ $1,056,784$ $1,056,784$ $1,056,784$ $1,056,784$ $1,056,784$ 0 $1,456,745$ $47,139$ $0,14,665$ $0,3242,928$ $0,3242,928$ $0,3242,928$ $0,3242,928$ $0,33242,928$ $0,33242,928$ $0,33242,928$ $0,33243,9265$ $0,3242,928$ $0,3242,928$ $0,326,912$ $0,3$	INVER GROVE HEIGHTS	2,401,309	379,593	3,582,660	801,758	405,991	402,706	(3,285)
432,390         215,020         1,101,565         454,155         1           0 $694,913$ $37,215$ $810,732$ $78,604$ 1,0           5 $6457,546$ $500,335$ $8,014,665$ $1,056,784$ 1,0           5 $3,242,928$ $0$ $3,242,928$ $0$ $3,242,928$ $0$ $3,242,928$ $0$ $3,242,928$ $0$ $3,242,928$ $0$ $3,242,928$ $0$ $3,242,928$ $0$ $3,242,928$ $0$ $3,242,928$ $0$ $3,3419$ $99,565$ $1,0,06,418$ $3,244,149$ $99,565$ $1,0,045$ $2,097,610$ $2,24,117$ $2,795,096$ $473,369$ $2,27,012$ $2,795,096$ $473,369$ $2,726,126$ $2,726,126$ $2,726,126$ $2,726,126$ $2,726,126$ $2,728,1726$ $2,728,1726$ $2,728,1726$ $2,728,1726$ $2,71,1645$ $2,728,1726$ $2,728,1726$ $2,728,1726$ $2,728,1726$ $2,728,1726$ $2,728,1726$ $2,728,1726$ $2,728,1726$ $2,728,1726$ $2,728,1726$ $2,728,1726$ $2,71,1626$ $2,728,1726$	LA CRESCENT	136,409	95,932	434,964	202,623	108,250	107,170	(1,080)
0 $694,913$ $37,215$ $810,732$ $78,604$ 5 $6,457,546$ $500,335$ $8,014,665$ $1,056,784$ $1,0$ 5 $3,242,928$ $0$ $3,242,928$ $0$ $3,242,928$ $0$ $3,242,928$ $0$ $3,242,928$ $0$ $3,242,928$ $0$ $3,242,928$ $0$ $3,242,928$ $0$ $3,242,928$ $0$ $3,242,928$ $0$ $3,324,149$ $99,565$ $1,0$ $3,242,928$ $684,726$ $2,24,117$ $2,795,096$ $473,369$ $2,24,172$ $2,795,096$ $473,369$ $2,27,011$ $936,845$ $1,0,045$ $2,075,036$ $2,73,369$ $2,728,179$ $1,496,965$ $2,728,179$ $1,496,965$ $2,73,369$ $2,728,179$ $1,344,65,523$ $1,1,20,045$ OVE $3,814,302$ $693,853$ $5,924,775$ $686,473$ $1,1,32,04$ $2,728,179$ $911,804$ $2,728,179$ $911,804$ $2,728,179$ $2,1728,179$ $2,1728,179$ $2,1728,179$ $2,17,802$ $2,024,775$ $1,27,832$ $1,27,832$ <	LAKE CITY	432,390	215,020	1,101,565	454,155	107,577	111,115	3,538
6,457,546         500,335         8,014,665         1,056,784         1,0<           3         3,242,928         0         3,242,928         0         3           ADA         1,456,745         47,139         1,603,449         99,565         1           ADA         1,096,418         324,184         2,105,328         684,726         2           LS         2,097,610         224,117         2,795,096         473,369         2           DI         774,699         52,101         936,845         110,045         2           OVE         4,913,291         3,842,609         1,496,965         5         1,1           OVE         4,913,291         3,25,011         5,924,775         686,473         1,1           J         3,84,681         4,31,694         2,728,179         911,804         2           J         1,384,681         2,728,179         911,804         2         1,465,523         6           HFIGHTS         1         774,699         7,708,099         1,778         4,65,523         6	LAKE ELMO	694,913	37,215	810,732	78,604	91,669	89,059	(2,610)
S         3,242,928         0         3,242,928         0         3           O         1,456,745         47,139         1,603,449         99,565         1           ADA         1,096,418         324,184         2,105,328         684,726         2           LS         2,097,610         224,117         2,795,096         473,369         2           DI         774,699         52,101         936,845         110,045         2           OVE         4,913,291         325,011         5,924,775         686,473         1,1           OVE         3,814,302         693,853         5,924,775         686,473         1,1           OVE         3,814,302         693,853         5,973,678         1,465,523         6           HFIGHTS         1,034,647         270,809         1,71804         2         1,382         46,382         1,465,523         6	LAKEVILLE	6,457,546	500,335	8,014,665	1,056,784	1,051,581	1,024,469	(27,112)
D         1,456,745         47,139         1,603,449         99,565         1           ADA         1,096,418         324,184         2,105,328         684,726         2           LS         2,097,610         224,117         2,795,096         473,369         2           DI         774,699         52,101         936,845         110,045         2           DVE         1,636,905         708,739         3,842,609         1,496,965         5           OVE         4,913,291         325,011         5,924,775         686,473         1,1           OVE         3,814,302         693,853         5,973,678         1,465,523         6           J         1,384,681         431,694         2,728,179         911,804         2           HFIGHTS         1         771         27,837         46,382         1         1	LINO LAKES	3,242,928	0	3,242,928	0	344,495	329,387	(15,108)
NDA         1,096,418         324,184         2,105,328         684,726         2           LS         2,097,610         224,117         2,795,096         473,369         2           DI         774,699         52,101         936,845         110,045         2           DI         774,699         52,101         936,845         110,045         2           OVE         1,636,905         708,739         3,842,609         1,496,965         5           OVE         4,913,291         325,011         5,924,775         686,473         1,1           OVE         3,814,302         693,853         5,973,678         1,465,523         6           D         3,814,302         693,853         5,973,678         1,465,523         6           HFIGHTS         1         771,838         466,382         1,71804         2	LITCHFIELD	1,456,745	47,139	1,603,449	99,565	146,348	141,708	(4,640)
LS         2,097,610         224,117         2,795,096         473,369         2           DI         774,699         52,101         936,845         110,045         2           D         1,636,905         708,739         3,842,609         1,496,965         5           OVE         4,913,291         325,011         5,924,775         686,473         1,1           OVE         3,814,302         693,853         5,973,678         1,465,523         6           D         3,814,302         693,853         5,973,678         1,465,523         6           HFIGHTS         1         727,8179         911,804         2         7	LITTLE CANADA	1,096,418	324,184	2,105,328	684,726	207,931	211,248	3,317
DI         774,699         52,101         936,845         110,045           1,636,905         708,739         3,842,609         1,496,965         5           OVE         4,913,291         325,011         5,924,775         686,473         1,1           OVE         3,814,302         693,853         5,973,678         1,465,523         6           OD         3,814,302         693,853         5,973,678         1,465,523         6           HFIGHTS         1         721,838         466,382         1,71838         466,382         1,71838	LITTLE FALLS	2,097,610	224,117	2,795,096	473,369	298,413	293,883	(4,530)
1,636,905         708,739         3,842,609         1,496,965         5           OVE         4,913,291         325,011         5,924,775         686,473         1,1           OD         3,814,302         693,853         5,973,678         1,465,523         6           OD         1,384,681         431,694         2,728,179         911,804         2           HFIGHTS         1         720,809         1,771,838         466,322         1	MAHTOMEDI	774,699	52,101	936,845	110,045	95,898	93,675	(2,223)
OVE     4,913,291     325,011     5,924,775     686,473     1,       DD     3,814,302     693,853     5,973,678     1,465,523       D     1,384,681     431,694     2,728,179     911,804       HFIGHTS     1 034,647     220,809     1 721,838     466,382	MANKATO	1,636,905	708,739	3,842,609	1,496,965	548,347	551,462	3,115
DD         3,814,302         693,853         5,973,678         1,465,523           1,384,681         431,694         2,728,179         911,804           HFIGHTS         1 034,647         220,809         1 721,838         466,382	MAPLE GROVE	4,913,291	325,011	5,924,775	686,473	1,160,306	1,121,644	(38,662)
HEIGHTS 1,034,681 431,694 2,728,179 911,804 HEIGHTS 1,034,647 220,809 1,721,838 466,382	MAPLEWOOD	3,814,302	693,853	5,973,678	1,465,523	642,779	641,155	(1,624)
1 034 647 220 809 1 721 838 466 382	MARSHALL	1,384,681	431,694	2,728,179	911,804	237,861	244,000	6,139
	MENDOTA HEIGHTS	1,034,647	220,809	1,721,838	466,382	163,934	165,209	1,275

						1000	
	Current	Current	I otal Storm Sewer Needs	Increase in	Actual 2004 Construction	Proposed 2004 Construction	Ultrerence In 2004 Allocation if
	<b>Complete Storm</b>	Partial Storm	if all Partial	Needs	Needs	Needs	<b>Complete SS Needs</b>
MUNICIPALITY	Sewer Needs	Sewer Needs	were Complete		Apportionment	Apportionment	Reinstated after 20 Years
MINNEAPOLIS	9,010,723	10,267,205	40,963,829	21,685,901	5,716,746	5,860,107	143,361
MINNETONKA	\$3,950,711	\$683,929	\$6,079,202	\$1,444,562	\$809,288	\$799,936	(\$9,352)
MONTEVIDEO	401,508	136,455	826,177	288,214	101,532	102,310	778
MONTICELLO	1,243,124	40,523	1,369,238	85,591	136,968	132,488	(4,480)
MOORHEAD	615,128	956,839	3,592,957	2,020,990	618,836	628,399	9,563
MORRIS	715,505	57,890	895,668	122,273	116,215	113,319	(2,896)
MOUND	687,193	376,285	1,858,249	794,771	148,028	155,995	7,967
MOUNDS VIEW	1,436,155	138,109	1,865,971	291,707	170,366	168,172	(2,194)
NEW BRIGHTON	718,078	173,670	1,258,566	366,818	190,788	189,063	(1,725)
NEW HOPE	15,443	727,760	2,280,343	1,537,140	252,844	269,727	16,883
NEW PRAGUE	185,310	14,059	229,064	29,695	31,878	30,472	(1,406)
NEW ULM	792,716	550,782	2,506,834	1,163,336	314,151	321,512	7,361
NORTH BRANCH	939,419	28,945	1,029,500	61,136	272,545	261,638	(10,907)
NORTH MANKATO	586,815	377,112	1,760,445	796,518	253,310	256,664	3,354
NORTH ST PAUL	658,882	352,302	1,755,300	744,116	150,630	157,558	6,928
NORTHFIELD	496,735	241,484	1,248,270	510,051	208,660	208,759	66
OAK GROVE	2,118,197	0	2,118,197	0	277,749	265,497	(12,252)
OAKDALE	823,601	81,046	1,075,829	171,182	190,111	184,847	(5,264)
ORONO	2,360,130	0	2,360,130	0	259,151	247,719	(11,432)
OTSEGO	2,632,947	0	2,632,947	0	286,681	274,035	(12,646)
OWATONNA	1,230,258	192,691	1,829,942	406,993	345,756	337,927	(7,829)
PLYMOUTH	4,985,358	963,455	7,983,777	2,034,964	975,572	969,654	(5,918)
PRIOR LAKE	2,306,083	80,219	2,555,737	169,435	294,401	284,505	(9,896)
RAMSEY	3,242,930	57,063	3,420,519	120,526	282,170	271,921	(10,249)
RED WING	2,715,310	329,146	3,739,663	695,207	452,051	444,791	(7,260)
REDWOOD FALLS	859,635	228,252	1,569,990	482,103	163,667	165,241	1,574
RICHFIELD	1,732,137	873,312	4,450,017	1,844,568	492,797	504,703	11,906
ROBBINSDALE	725,800	163,746	1,235,403	345,857	95,373	97,475	2,102
ROCHESTER	2,020,399	1,550,625	6,846,180	3,275,156	1,149,387	1,158,422	9,035
ROGERS	548,210	9,924	579,095	20,961	82,814	79,161	(3,653)
ROSEMOUNT	3,670,169	0	3,670,169	0	369,499	353,199	(16,300)
ROSEVILLE	1,433,583	759,186	3,796,286	1,603,517	405,763	417,111	11,348
ST ANTHONY	324,294	229,079	1,037,223	483,850	134,221	137,126	2,905
ST CLOUD	4,879,834	1,084,197	8,254,020	2,289,989	987,767	986,182	(1,585)
ST FRANCIS	1,554,547	43,004	1,688,382	90,831	193,597	186,714	(6,883)
ST JOSEPH	308,851	31,426	406,654	66,377	43,439	42,734	(202)
ST LOUIS PARK	684,619	1,357,107	4,908,143	2,866,417	580,786	607,448	26,662
ST MICHAEL	1,956,051		1,956,051	0	326,387	311,989	(14,398)
ST PAUL	1,876,269	9,736,271	32,177,028	20,564,488	4,625,906	4,796,932	171,026

			Total Storm		Actual 2004	Proposed 2004	Difference in 2004
	Current	Current	Sewer Needs	Increase in	Construction	Construction	Allocation if
	Complete Storm	Partial Storm	if all Partial	Needs	Needs	Needs	<b>Complete SS Needs</b>
MUNICIPALITY	Sewer Needs	Sewer Needs	were Complete		Apportionment	Apportionment	Reinstated after 20 Years
ST PAUL PARK	728,374	113,299	1,080,978	239,305	89,904	90,303	399
ST PETER	2,293,213	152,168	2,766,783	321,402	263,870	258,092	(5,778)
SARTELL	\$2,270,049	\$38,869	\$2,391,015	\$82,097	\$292,202	\$280,810	(\$11,392)
SAUK RAPIDS	1,052,664	179,459	1,611,168	379,045	231,429	228,133	(3,296)
SAVAGE	2,383,296	14,886	2,429,624	31,442	363,421	347,963	(15,458)
SHAKOPEE	1,366,664	268,775	2,203,133	567,694	315,919	312,362	(3,557)
SHOREVIEW	1,042,369	170,362	1,572,562	359,831	185,393	183,778	(1,615)
SHOREWOOD	1,930,316	15,713	1,979,217	33,188	142,633	136,947	(5,686)
SOUTH ST PAUL	301,131	334,108	1,340,926	705,687	231,905	234,547	2,642
SPRING LAKE PARK	0	102,548	319,145	216,597	50,218	51,953	1,735
STEWARTVILLE	458,129	71,122	679,472	150,221	77,419	76,744	(675)
STILLWATER	730,948	309,298	1,693,531	653,285	203,291	206,239	2,948
THIEF RIVER FALLS	2,004,960	119,915	2,378,154	253,279	344,747	334,159	(10,588)
VADNAIS HEIGHTS	594,537	92,624	882,797	195,636	110,511	109,204	(1,307)
VIRGINIA	676,899	292,758	1,588,007	618,350	271,735	271,820	85
WACONIA	23,164	317,568	1,011,484	670,752	75,880	84,767	8,887
WAITE PARK	507,030	38,042	625,423	80,351	92,029	89,435	(2,594)
WASECA	612,557	26,464	694,917	55,896	109,475	105,665	(3,810)
WEST ST PAUL	823,602	189,383	1,412,991	400,006	160,633	160,843	210
WHITE BEAR LAKE	1,093,847	395,306	2,324,100	834,947	268,730	272,105	3,375
WILLMAR	2,187,688	224,117	2,885,174	473,369	358,598	351,414	(7,184)
WINONA	898,239	339,897	1,956,050	717,914	310,769	310,153	(616)
WOODBURY	5,731,747	210,885	6,388,053	445,421	1,089,037	1,049,121	(39,916)
WORTHINGTON	100,377	249,754	877,650	527,519	168,545	170,731	2,186
	\$229,035,824	\$63,349,027	\$426,187,648	\$133,802,797	\$55,445,291	\$55,445,291	\$0

Allocation increases for 53 cities and decreases for 80 cities Currently, 10.36% of Needs are based on SS. In proposed method, 10.63% would be based on SS if all Storm Sewer Needs between 20 and 39 years generated Partial Needs and all SS Needs Greater Than 39 years generated Complete SS Needs Needs Value decreases from \$19.08 per \$1000 to \$19.02 **2003 Storm Sewer Needs** 

**DISCUSSION POINT 2** 

						A nited 2004	Dronorod 2004	Difference in 2004 Construction
	Current	Current	Pronosed	Pronosed	Change in	Construction	Construction	Needs Apportionment lising
	Complete Storm	Partial Storm	Complete Storm	Partial Storm	Storm Sewer	Needs	Needs	Proposed Method of Computing
MUNICIPALITY	Sewer Needs	Sewer Needs	Sewer Needs	Sewer	Needs	Apportionment	Apportionment	SS Needs
ALBERT LEA	\$221,343	\$789,785	\$1,335,776	\$482,141	\$806,789	\$335,643	\$349,989	\$14,346
ALEXANDRIA	990,894	348,994	1,080,975	305,990	47,077	227,635	227,851	216
ANDOVER	3,886,367	0	3,047,320	156,303	(682,744)	481,264	466,838	(14,426)
ANOKA	1,912,306	66,160	1,608,594	269,602	(100,270)	212,767	210,224	(2,543)
APPLE VALLEY	2,066,726	1,173,513	2,192,835	1,073,446	26,042	607,510	606,191	(1,319)
ARDEN HILLS	970,305	18,194	903,386	39,696	(45,417)	106,658	105,475	(1,183)
AUSTIN	1,842,812	559,052	2,174,819	512,740	285,695	584,353	588,043	3,690
BAXTER	1,438,728	100,894	993,468	138,936	(407,219)	150,312	142,116	(8,196)
BEMIDJI	342,312	264,640	375,768	243,138	11,954	195,098	194,743	(355)
BIG LAKE	975,454	31,426		313,433	(693,447)	104,094	90,591	(13,503)
BLAINE	4,179,776	222,463	3,098,795	569,803	(733,641)	516,202	500,704	(15,498)
BLOOMINGTON	8,302,937	2,106,369	3,098,795	4,034,106	(3,276,405)	1,808,591	1,740,859	(67,732)
BRAINERD	185,311	484,622	736,093	384,555	450,715	155,311	163,421	8,110
<b>BROOKLYN CENTER</b>	715,503	697,988	872,501	647,541	106,551	350,006	350,988	982
BROOKLYN PARK	2,470,804	543,339	2,290,638	578,073	(145,433)	529,474	525,126	(4,348)
BUFFALO	2,113,055	95,105	1,351,219	307,644	(549,297)	273,015	261,749	(11,266)
BURNSVILLE	1,562,269	1,164,416	1,446,448	1,185,918	(94,320)	723,142	719,188	(3,954)
CAMBRIDGE	947,144	73,603	1,196,794	155,476	331,523	158,020	163,895	5,875
CHAMPLIN	1,281,732	39,696	784,994	103,375	(433,059)	173,976	165,218	(8,758)
CHANHASSEN	1,474,760	176,978	1,423,284	71,949	(156,505)	189,764	186,233	(3,531)
CHASKA	1,328,056	133,147	1,024,353	230,733	(206,118)	221,118	216,537	(4,581)
CHISHOLM	620,277	156,303	957,435	145,552	326,407	113,071	118,943	5,872
CLOQUET	2,344,693	90,143	1,315,186	420,943	(698,707)	315,383	301,149	(14,234)
COLUMBIA HEIGHTS	967,732	371,323	1,073,254	427,559	161,758	245,921	248,264	2,343
COON RAPIDS	362,899	573,938	301,129	611,980	(23,728)	636,177	633,825	(2,352)
CORCORAN	275,391	0	275,391		0	130,931	130,540	(391)
COTTAGE GROVE	3,165,717	426,732	2,908,338	524,318	(159,794)	571,570	566,823	(4,747)
CROOKSTON	671,750	309,298	676,896	286,142	(18,010)	342,989	341,622	(1,367)
CRYSTAL	1,485,057	310,125	2,215,999	74,430	495,247	272,921	281,528	8,607
DETROIT LAKES	1,320,337	118,261	388,636	417,635	(632,327)	169,739	157,202	(12,537)
DULUTH	5,376,576	2,817,589	15,684,433	1,668,886	9,159,154	2,229,950	2,397,745	167,795
EAGAN	576,519	1,098,256	576,520	1,098,256	1	474,716	473,298	(1,418)
EAST BETHEL	3,170,864	0	2,105,328	323,357	(742,180)	415,350	399,990	(15,360)
EAST GRAND FORKS	1,006,339	76,911	862,206	187,729	(33,315)	256,827	255,426	(1,401)
EDEN PRAIRIE	3,574,941	1,359,588	3,150,270	1,097,429	(686,830)	738,319	723,048	(15,271)

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	Current	Current	Dronced	Dronoed	Change in	Actual 2004	Proposed 2004	Difference in 2004 Construction
	Complete Storm	Partial Storm	Complete Storm	Partial Storm	Storm Sewer	Needs	Needs	Proposed Method of Computing
MUNICIPALITY	Sewer Needs	Sewer Needs	Sewer Needs	Sewer	Needs	Apportionment	Apportionment	SS Needs
EDINA	\$2,040,987	\$858,426	\$2,419,325	\$676,486	\$196,398	\$609,040	\$610,957	\$1,917
ELK RIVER	3,600,679	75,257	3,399,924	50,447	(225,565)	451,166	445,528	(5,638)
FAIRMONT	3,384,488	67,814	3,649,578	490,411	687,687	467,120	478,808	11,688
FALCON HEIGHTS	141,557	46,312	15,443	86,835	(85,592)	35,907	34,171	(1,736)
FARIBAULT	1,657,498	358,918	586,815	745,127	(684,474)	480,781	466,324	(14,457)
FARMINGTON	2,416,754	7,443	2,398,735	33,907	8,445	284,997	284,306	(691)
FERGUS FALLS	1,292,025	444,099	2,393,588	396,133	1,053,597	409,753	428,657	18,904
FOREST LAKE	5,096,030	53,755	4,303,310	261,332	(585,143)	410,173	397,816	(12,357)
FRIDLEY	617,700	771,591	156,999	917,143	(315,149)	236,944	230,241	(6,703)
GLENCOE	903,389	126,531	869,928	136,455	(23,538)	143,249	142,373	(876)
<b>GOLDEN VALLEY</b>	1,335,781	598,748	949,714	734,376	(250,439)	340,561	334,780	(5,781)
<b>GRAND RAPIDS</b>	1,358,940	200,961	638,290	467,255	(454,356)	217,003	207,711	(9,292)
HAM LAKE	3,196,605	49,620	1,912,296	418,462	(915,467)	397,789	379,185	(18,604)
HASTINGS	725,800	15,713	388,636	142,244	(210,633)	231,153	226,456	(4,697)
HERMANTOWN	2,385,867	0	996,041	173,670	(1,216,156)	211,921	188,152	(23,769)
HIBBING	3,073,067	459,812	3,510,595	672,351	650,067	769,763	779,831	10,068
HOPKINS	903,389	280,353	481,291	415,981	(286,470)	185,545	179,541	(6,004)
HUGO	630,570	0	630,569		(1)	187,270	186,710	(260)
HUTCHINSON	1,178,779	413,500	1,196,794	405,230	9,745	301,764	301,048	(216)
INTERNATIONAL FALLS	138,983	305,163	1,101,565	49,620	707,039	128,072	141,141	13,069
INVER GROVE HEIGHTS	2,401,309	379,593	602,258	957,666	(1,220,979)	405,991	381,551	(24,440)
LA CRESCENT	136,409	95,932	231,638	52,928	52,225	108,250	108,920	670
LAKE CITY	432,390	215,020	537,914	181,113	71,617	107,577	108,618	1,041
LAKE ELMO	694,913	37,215	458,128	113,299	(160,702)	91,669	88,338	(3,331)
LAKEVILLE	6,457,546	500,335	5,389,433	702,950	(865,499)	1,051,581	1,031,976	(19,605)
LINO LAKES	3,242,928	0	3,242,925		(3)	344,495	343,472	(1,023)
LITCHFIELD	1,456,745	47,139	1,209,663	155,476	(138,746)	146,348	143,271	(3,077)
LITTLE CANADA	1,096,418	324,184	1,685,806	160,438	425,642	207,931	215,407	7,476
LITTLE FALLS	2,097,610	224,117	1,819,641	425,905	(76,181)	298,413	296,073	(2,340)
MAHTOMEDI	774,699	52,101	756,683		(70,118)	95,898	94,278	(1,620)
MANKATO	1,636,905	708,739	1,680,659	734,376	69,391	548,347	548,029	(318)
MAPLE GROVE	4,913,291	325,011	4,/8/,1/5	300,201	(150,926)	1,160,306	1,153,9/0	(6,336)
	3,814,302	093,853	3,020,/30	946,915	(010,526)	042,179	030,091	(12,088)
MENDOTA HEIGHTS	1,384,681	431,094 220 800	1,304,891	485,449 380 517	(920'97)	237,801	165 784	(1,205)
	0.010 733	10 767 706	16 200 550	7 661 404	A 672 026	E 716 746	E 788 E74	71 828
	3,010,123	683 929		669 870	4,073,033 (181 358)	3,7 10,740 809 288	3,1 00,374 R03 421	1,020
MONTEVIDEO	401.508	136.455		214,193	(128,165)	101.532	98,790	(2,742)
MONTICELLO	1.243.124	40.523		292.758	(507.024)	136,968	126,914	(10.054)
MOORHEAD	615,128	956,839	1,	640,925	1,022,434	618,836	636,439	17,603
MORRIS	715,505	57,890	478,718	148,033	(146,645)	116,215	113,078	(3,137)
MOUND	687,193	376,285	205,900	537,550	(320,028)	148,028	141,498	(6,530)
MOUNDS VIEW	1,436,155	138,109	445,259	439,137	(689,868)	170,366	156,733	(13,633)
<b>NEW BRIGHTON</b>	718,078	173,670	491,586	200,134	(200,028)	190,788	186,413	(4,375)
NEW HOPE	\$15,443	\$727,760	\$1,155,614	\$349,821	\$762,232	\$252,844	\$266,590	\$13,746

						A number of the A	Doctored 2004	Difference in 2004 Construction
	Current	Current	Proposed	Proposed	Change in	Construction	Construction	Needs Apportionment using
	Complete Storm	<b>Partial Storm</b>	Complete Storm	Partial Storm	Storm Sewer	Needs	Needs	Proposed Method of Computing
MUNICIPALITY	Sewer Needs	Sewer Needs	Sewer Needs	Sewer	Needs	Apportionment	Apportionment	SS Needs
NEW PRAGUE	185,310	14,059	185,310	14,059	0	31,878	31,783	(32)
NEW ULM	792,716	550,782	1,271,433	395,306	323,241	314,151	319,362	5,211
NORTH BRANCH	939,419	28,945		75,257	(154,441)	272,545	268,793	(3,752)
NORTH MANKATO	586,815	377,112		505,297	(270,746)	253,310	247,403	(5,907)
NORTH ST PAUL	658,882	352,302		310,125	145,705	150,630	152,952	2,322
NORTHFIELD	496,735	241,484		254,716	44,116	208,660	208,877	217
OAK GROVE	2,118,197	0	1,142,745	313,433	(662,019)	277,749	264,325	(13,424)
OAKDALE	823,601	81,046		296,893	(607,754)	190,111	177,981	(12,130)
ORONO	2,360,130	0	1,873,690	156,303	(330,137)	259,151	252,096	(7,055)
OTSEGO	2,632,947	0	2,488,816		(144,131)	286,681	283,083	(3,598)
OWATONNA	1,230,258	192,691		320,876	120,458	345,756	347,015	1,259
PLYMOUTH	4,985,358	963,455	3,677,889	1,362,069	(908,855)	975,572	955,368	(20,204)
PRIOR LAKE	2,306,083	80,219		100,894	(43,672)	294,401	292,691	(1,710)
RAMSEY	3,242,930	57,063	2,280,343	366,361	(653,290)	282,170	268,899	(13,271)
RED WING	2,715,310	329,146	2,344,686	454,023	(245,747)	452,051	446,026	(6.025)
REDWOOD FALLS	859,635	228,252		141,417	209,144	163,667	167,157	3,490
RICHFIELD	1,732,137	873,312	419,521	1,273,580	(912,348)	492,797	473,969	(18,828)
ROBBINSDALE	725,800	163.746	738,666	200,961	50,081	95,373	96,041	668
ROCHESTER	2,020,399	1,550,625	ć	1,111,488	652,128	1,149,387	1,158,361	8,974
ROGERS	548,210	9,924	496,734		(61,400)	82,814	81,398	(1,416)
ROSEMOUNT	3,670,169	0	3,538,906	42,177	(89,086)	369,499	366,700	(2,799)
ROSEVILLE	1,433,583	759,186	1,636,905	709,566	153,702	405,763	407,475	1,712
ST ANTHONY	324,294	229,079	638,290	162,919	247,836	134,221	138,535	4,314
ST CLOUD	4,879,834	1,084,197	5,543,858	803,017	382,844	987,767	992,115	4,348
ST FRANCIS	1,554,547	43,004	1,595,725	20,675	18,849	193,597	193,378	(219)
ST JOSEPH	308,851	31,426	332,014	23,983	15,720	43,439	43,609	170
ST LOUIS PARK	684,619	1,357,107	1,006,336	1,253,732	218,342	580,786	583,205	2,419
ST MICHAEL	1,956,051	0	1,956,050		(1)	326,387	325,412	(975)
ST PAUL	1,876,269	9,736,271	19,717,499	4,098,612	12,203,571	4,625,906	4,844,253	218,347
ST PAUL PARK	728,374	113,299		106,683	13,971	89,904	89,902	(2)
ST PETER	2,293,213	152,168		454,850	(250,676)	263,870	258,313	(5,557)
SARTELL	2,270,049	38,869		10,751	(43,562)	292,202	290,501	(1,701)
SAUK RAPIDS	1,052,664	179,459		129,839	166,575	231,429	233,906	2,477
SAVAGE	2,383,296	14,886	1,	377,939	(874,924)	363,421	345,691	(17,730)
SHAKOPEE	1,366,664	268,775		450,715	(409,222)	315,919	306,050	(9,869)
SHOREVIEW	1,042,369	170,362		206,750	(76,857)	185,393	183,377	(2,016)
SHOREWOOD	1,930,316	15,713	1,		33,185	142,633	142,838	205
SOUTH ST PAUL	301,131	334,108	316,571	329,146	10,478	231,905	231,412	(493)
SPRING LAKE PARK	0	102,548		102,548	0	50,218	50,068	(150)
STEWARTVILLE	458,129	71,122		177,805	(225,332)	77,419	72,901	(4,518)
STILLWATER	730,948	309,298		334,935	(193,135)	203,291	199,010	(4,281)
THIEF RIVER FALLS	2,004,960	119,915	1,384,678	468,082	(272,116)	344,747	338,541	(6,206)
VADNAIS HEIGHTS	594,537	92,624		109,164	(34,936)	110,511	109,516	(395)
VIRGINIA	\$676,899	\$292,758	Ś	\$275,391	\$765,050	\$271,735	\$285,531	\$13,796
WACONIA	23,164	317,568	1,011,484	0	670,752	75,880	88,414	12,534

						Actual 2004	Proposed 2004	<b>Difference in 2004 Construction</b>
	Current	Current	Proposed	Proposed	Change in	Construction	Construction	Needs Apportionment using
MUNICIPALITY	Complete Storm Sewer Needs	Partial Storm Sewer Needs	Complete Storm Sewer Needs	Partial storm Sewer	otorm Sewer Needs	Apportionment	Apportionment	Proposea methoa of Computing SS Needs
WAITE PARK	507,030	38,042	476,144	41,350	(27,578)	92,029	91,230	(662)
WASECA	612,557	26,464	123,540	208,404	(307,077)	109,475	103,306	(6,169)
WEST ST PAUL	823,602	189,383	102,950	377,112	(532,923)	160,633	150,015	(10,618)
WHITE BEAR LAKE	1,093,847	395,306	1,976,640	172,843	660,330	268,730	280,490	11,760
WILLMAR	2,187,688	224,117	1,503,070	685,583	(223,152)	358,598	353,282	(5,316)
WINONA	898,239	339,897	1,065,533	323,357	150,754	310,769	312,708	1,939
WOODBURY	5,731,747	210,885	3,708,774	827,827	(1,406,031)	1,089,037	1,059,035	(30,002)
WORTHINGTON	100,377	249,754	684,618	104,202	438,689	168,545	176,386	7,841
	\$229,035,824	\$63,349,027	\$236,911,114	\$64,155,352	\$8,681,615	\$55,445,291	\$55,445,291	(0\$)

#### STORM SEWER NEEDS

Change Implementation Options Rick Kostohryz, SALT ITS March 30, 2004

The following are SALT ITS perspectives on the Storm Sewer Needs options being discussed by the Municipal Screening Board this spring.

#### **Option 1**

Generate complete storm sewer Needs after 20 years, in the same manner as other roadway Needs items. The city would adjust the partial or complete storm sewer mileage fields on the data collector tool as needed if the last year graded is over 20 years.

No database or program changes necessary for this option.

The MSAS Needs User Manual would need to include specific instructions on how and when to adjust the storm sewer mileage fields.

#### **Option 2**

Generate complete or partial storm sewer Needs based on a predetermined number of years past the last year graded. The city would adjust the partial or complete storm sewer mileage fields on the data collector tool as needed if the last year graded is beyond the predetermined number of years.

No database changes necessary.

A new Data Collector report would need to be developed and implemented, similar to Report 3- 20 yr Reinstatement. The report would list segments in which the last year graded is beyond the pre-determined number of years. The city would adjust their complete or partial storm sewer mileage based on the results of the report.

MSAS Needs User Manual would need to include specific instructions on the use of the new report and how and when to adjust the storm sewer mileage fields.

#### **Option 3**

Generate Complete storm sewer Needs on a different life cycle than roadway needs. The city would adjust the partial or complete storm sewer mileage fields on the data collector tool as needed if a new field called 'Last Year Storm Sewer Constructed' is beyond a pre-determined number of years. A new field on the database would be necessary - Year Storm Sewer Constructed

The Grading tab form on the Data Collector would need to be modified to include the new field.

A new Data Collector report would need to be developed and implemented, similar to Report 3- 20 yr Reinstatement. The report would list segments in which the new field 'Last Year Storm Sewer Constructed' is beyond the pre-determined number of years. The city would adjust their complete or partial storm sewer mileage based on the results of the report.

MSAS Needs User Manual would need to include specific instructions on the use of the new field, the new report, and how and when to adjust the storm sewer mileage fields.

Provided current staffing and resource levels remain consistent, it's possible to implement any of the 3 options prior to the start of the 2005 Needs cycle (1/1/2005) with little or no assistance from outside consultants.

The above options 1, 2 and 3, are in order of complexity, with option 1 being the easiest to implement, and option 3 being the most complex. Actual time commitments to implement each option have not been determined.

#### CRITERIA USED BY DSAE'S TO APPROVE COMPLETE STORM SEWER NEEDS WHERE THERE IS EXISTING STORM SEWER

The DSAE's were asked the following 5 questions about approving SS Needs. In no particular order, their answers are in bold below each question.

- 1) What criteria (or guidelines) do you use to approve Complete SS Needs where there is existing SS. And what do you think is the most important?
  - a. Hydraulic inadequacy, poor condition, too shallow to serve
  - b. It has to have used its half life (about 35 40 years old) or future development will require upgrading the SS.
  - c. ...requires significant grade change, and/or significant drainage changes
  - d. 40 years old or older or greatly increased impervious area, lots of new development, etc.
  - e. Usually anything that is 40 50 years old or more is allowed, and sometimes younger if they argue strongly that it is worn out.
  - f. If they need added capacity or it is really old. Usually need both to be approved.
- 2) What info do you require the city to provide you?
  - a. Hand written note on Report 7 form
  - b. Explanation on Report 7 form or to me when I call them
  - c. Any current plans under review or other evidence that future development is being planned.
  - d. ...I always ask for their justification of why it needs to be replaced. The most usual response is something to the effect that it's "old and worn out and when we rebuild the road we'll need to replace the storm sewer". I typically ask the age of the existing storm sewer and they usually have a construction date for it. Sometimes it's unclear exactly when it was built, but that's usually on systems that appear to be VERY old.
  - e. Note on the Report 7 form, usually followed up by a phone call. If it seems borderline, ask for drainage info. Usually can resolve with a phone call.
- 3) About what percent of the requests you receive do you approve or not approve?
  - a. About 100% approved
  - b. About 50% approved and 50% not (because they just reinstated with the grading needs at 20 years)
  - c. I have had 3 or 4 requests in the time I've been DSAE and approved them all as best I can recall.
  - d. I'm not real sure what percentage we disallow now, but it is significantly less than 2 or 3 years ago. I'd estimate that better than 85 or 90% is approved now.
  - e. Have had 5 to 8 requests. As best as I can recall, have approved them all.

- 4) What do you think about having statewide guidelines for the approval of Complete SS where there is Existing SS?
  - a. It's okay, but the guideline ought to be, "If complete grading needs, then complete SS need." I realize that complete SS is not always required, but neither is complete grading.
  - b. We feel a guideline at least on the life of the storm sewer should be set, but still have DSAE be able to approve the special cases.
  - c. This could be a good thing.
  - d. It would be very helpful to me to have well defined guidelines to apply to Storm Sewer needs, for instance an age criteria. ...Report 7 could still be used for unusual circumstances which warranted replacement earlier.
  - e. I'm ok with that.
- 5) Any other info on this subject you would like presented to the subcommittee?
  - a. Needs are theoretical
  - b. Maybe consider an after the fact need for several years rather than trying to second guess if it is to be upgraded from development. The development could take anywhere from 2 10 years to occur and by then it may be over 30 years old. It may be better to do after the fact if objective criteria is difficult to develop.
  - c. I still think AFTER THE FACT is the purist way.
  - d. My big fear is that we are being more strict than the rest of the state and therefore I am creating a disadvantage for the cities and counties in my district.
  - e. There may be inconsistencies, and maybe there should be consistent guidelines, but I think that the DSAE's are approving ones that need to be approved.



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## **2004 Municipal Screening Board Data**

JUNE, 2004

#### Advancement of MSAS Construction Funds from the <u>General MSAS Construction Account</u>

Actual Expenditures as of 5/02/04	
Maximim \$'s Allowable to Advance:	\$27,000,000
Less \$'s Actual Advances:	\$9,829,012
Less Outstanding Reserve \$ Amount:	\$6,726,397
Remaining Available to Advance:	\$10,444,591

County	\$'s Approved for Advancing	\$'s Actually Advanced
Alexandria	\$406,000	\$31,089
Brooklyn Park	841,728	841,728
Eagan	4,000,000	1,867,100
Elk River	299,542	0
Glencoe	62,032	62,032
Hibbing	190,851	0
Lake City	400,000	0
Lakeville	4,000,000	131,057
Maple Grove	535,666	0
Morris	586,289	250,010
Oakdale	1,623,274	618,521
Otsego	435,140	435,140
Red Wing	2,155,530	825,827
Redwood Falls	213,039	213,039
Rochester	4,000,000	0
Sartell	1,415,274	1,250,389
Savage	850,000	0
Shakopee	2,122,233	361,466
Shoreview	1,857,177	1,857,177
St. Anthony	22,766	22,766
St. Francis	107,433	0
St. Michael	596,632	256,721
White Bear Lake	450,000	246,004
Woodbury	558,946	558,946
TOTAL	\$27,729,552	\$9,829,012

#### 2004 SUMMARY TO DATE

If the cities were to advance the total amount on the City Council resolutions submitted, they would have a balance available to advance of (\$729,552). Historical data shows that cities have requested approximately 1 1/2 times more than they have actually advanced.

#### May 4, 2004

#### MSAS FUND ADVANCES Revised June 1999 November 2000 November 2002 June 2003, October 2003 June 2004 Guidelines

#### **General Fund Advance for State Aid Projects**

Any city may advance up to a cumulative maximum of five times its annual construction allotment or \$4,000,000 whichever is less. This amount may be exceeded by advances for Federal Aid projects. **Per State Statute 162.14 subp. 6 advances "shall not exceed the city's total estimated apportionment for the three years following the year the advance is made."** At times, a city using our guidelines may exceed the State Statute guidelines. If this happens, the city will be limited to the statutory limits. This issue will be addressed in the 2005 legislative session.

The maximum Municipal State Aid construction dollars that can be advanced from the General Fund account in any one year shall be the difference between the Municipal State Aid construction fund balance at the end of the preceding calendar year, current year projected disbursements, and \$20 million. SALT may revise the amount of the required reserve as the year progresses.

A City Council Resolution is required to advance funds for an MSAS project. A sample resolution can be found in the State Aid manual (SALT 512(4/04)) on the SALT website. The City Council Resolution can be passed at any time, but must be submitted with or prior to, any payment requests. It need not be project specific, but must include the maximum amount of advance the City Council is authorizing for financing approved Municipal State Aid Street projects. A mutually acceptable repayment schedule not to exceed five years shall be included in the resolution. The resolution should be mailed directly to State Aid Finance. The resolution does not reserve the funds. The funds are paid on a first come first served basis established by payment requests. As payment requests are processed by State Aid Finance, the amount on the 'State Aid Payment Request' form (up to the resolution/allowable amount) will be deducted from the city's account.

To "reserve" the funds, the City Engineer may submit a "Request to Reserve Advanced Funding" form (SALT 513(4/04) on the SALT website) up to 12 weeks prior to anticipating or incurring an obligation where advanced funding is required. This form "reserves" the funds in the city's account. Once the request has been approved by State Aid and the funds added to the city's account, a copy of the approved request will be returned to the City Engineer. The "Request to Reserve Advanced Funding" form should be mailed to Sandra Martinez in State Aid Finance. This form is not required, but will allow the funds to be set aside up to twelve weeks in advance of the payment request.

#### **General Fund Advance for Federal Aid Projects**

Cities may advance for Federal Projects that are programmed by the ATP in the STIP and are eligible for State Aid financing. Repayment to the General Fund will be made at the time federal funds are converted. The city will agree to authorize repayments from their state aid account or from local funds under a mutually acceptable repayment schedule should said project fail to receive Federal funds for any reason

A City Council Resolution and an Advance Construction Agreement are required to advance funds for a Federal Aid project. A sample resolution can be found in the State Aid manual (SALT 515(4/04) on the SALT website). The actual Agreement that must be processed will be written by Lynnette Roshell. Contact her directly at (651) 282-6479 to get the agreement started. This resolution must be project specific and must include the maximum amount of advance the City Council is authorizing. The resolution and signed Agreement should be mailed directly to Lynnette.

#### **Additional Guidelines**

General Fund Advance repayments may be relaxed to accommodate the payment on the principal of State Aid bonds.

In any one year, if the maximum advance amount available is reached, a city has to submit a new city council resolution when more funds become available the following year.

Advances will always be processed on a 'first come first served' basis.

All revisions to these guidelines are ultimately an administrative decision by the State Aid Engineer with any input and discussion by the Screening Board being taken into consideration.

#### MUNICIPAL STATE AID STREET FUNDS ADVANCE RESOLUTION

WHEREAS, the Municipality of \_\_\_\_\_\_ is planning to implement Municipal State Aid Street Project(s) in 20\_\_\_\_\_ which will require State Aid funds in excess of those available in its State Aid Construction Account, and

WHEREAS, said municipality is prepared to proceed with the construction of said project(s) through the use of an advance from the Municipal State Aid Street Fund to supplement the available funds in their State Aid Construction Account, and

WHEREAS, the advance is based on the following determination of estimated expenditures:

Account Balance as of date		\$ 
Less estimated disbursements:		
Project #	\$	
Bond Principle (if any)	\$	
Project Finals (overruns-if any)	\$	
Other	\$	
Total Estimated Disbursements		\$ 
Advance Amount (amount in excess of acc	t balance)	\$ 

WHEREAS, repayment of the funds so advanced will be made in accordance with the provisions of Minnesota Statutes 162.14, Subd. 6 and Minnesota Rules, Chapter 8820.1500, Subp. 10b, and

WHEREAS, the Municipality acknowledges advance funds are released on a first-come-first-serve basis and this resolution does not guarantee the availability of funds.

NOW, THEREFORE, Be It Resolved: That the Commissioner of Transportation be and is hereby requested to approve this advance for financing approved Municipal State Aid Street Project(s) of the Municipality of \_\_\_\_\_\_ in an amount up to \$\_\_\_\_\_\_. I hereby authorize repayments from subsequent accruals to the Municipal State Aid Street Construction Account of said Municipality in accordance with the schedule herein indicated: (initial one)

\_\_\_\_Repayment from entire future year allocations until fully repaid.

\_\_\_\_Repayment in \_\_\_\_\_ equal annual installments

\_\_\_\_Repayment from future year allocations in amounts listed below until fully repaid (maximum 5 year repayment).

\$\_\_\_\_\_CY\_\_\_\_\$\_\_\_CY\_\_\_\_\$\_\_\_CY\_\_\_\_

I HEREBY CERTIFY that the above is a true and correct copy of a resolution presented to and adopted by the Municipality of \_\_\_\_\_\_, County of \_\_\_\_\_\_, State of Minnesota, at a duly authorized Municipal Council Meeting held in the Municipality of \_\_\_\_\_\_, Minnesota on the \_\_\_\_\_ day of \_\_\_\_\_\_, 20\_\_\_\_, as disclosed by the records of said Municipality on file and of record in the office.

Municipality of \_\_\_\_\_\_

Municipal Clerk

#### MUNICIPAL REQUEST TO RESERVE ADVANCE FUNDING

The Municipality of \_\_\_\_\_\_ requests that the amount of \$\_\_\_\_\_\_ be reserved from the Municipal State Aid Street Construction Fund for the State Aid Project(s) listed below.

Project #         Project #
-----------------------------

 Project #\_\_\_\_\_
 Project #\_\_\_\_\_

#### MUNICIPAL APPROVAL

The Municipality agrees that a "State Aid Payment Request" form will be submitted within 12 weeks of the signing of this document. A Municipal Council Resolution authorizing this advance funding is attached or has been previously submitted.

Municipal Engineer

Date

STATE AID APPROVAL

Construction funds in the amount of \$\_\_\_\_\_ has been approved and reserved from the Municipal State Aid Street Construction Fund for a period of 12 weeks from the date the Municipal Engineer signed this form.

State Aid Finance

Date

Original retained in SAF Finance file, one copy to Municipal Engineer

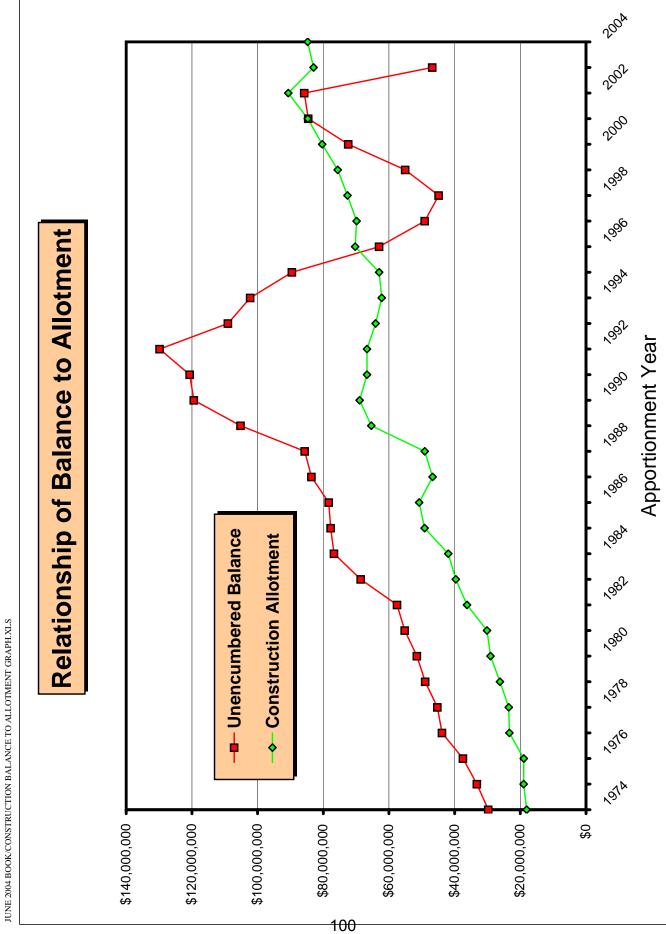
#### **RELATIONSHIP OF CONSTRUCTION BALANCE TO CONSTRUCTION ALLOTMENT**

The amount spent on construction projects is computed by the difference between the previous year's and current years unencumbered construction balances plus the current years construction apportionment.

JUNE 2004 BOOK/	RELAT	IONSHIP OF CONSTRUCTION B.	ALANCE TO ALLOTME	NT.XLS				04-May-04
						Amount	Ratio of	Ratio of
					31-Dec	Spent	Construction	Amount
				January	Unencumbered	on	Balance to	spent to
App.		No. of	Needs	Construction	Construction	Construction	Construction	Amount
Year		<b>Municipalities</b>	Mileage	Allotment	Balance	Projects	Allotment	Received
1973		94	1,580.45	\$15,164,273	\$26,333,918	\$12,855,250	1.7366	0.8477
1974		95	1608.06	18,052,386	29,760,552	14,625,752	1.6486	0.8102
1975		99	1629.30	19,014,171	33,239,840	15,534,883	1.7482	0.8170
1976		101	1718.92	18,971,282	37,478,614	14,732,508	1.9755	0.7766
1977		101	1748.55	23,350,429	43,817,240	17,011,803	1.8765	0.7285
1978		104	1807.94	23,517,393	45,254,560	22,080,073	1.9243	0.9389
1979		106	1853.71	26,196,935	48,960,135	22,491,360	1.8689	0.8585
1980		106	1889.03	29,082,865	51,499,922	26,543,078	1.7708	0.9127
1981		106	1933.64	30,160,696	55,191,785	26,468,833	1.8299	0.8776
1982		105	1976.17	36,255,443	57,550,334	33,896,894	1.5874	0.9349
1983		106	2022.37	39,660,963	68,596,586	28,614,711	1.7296	0.7215
1984		106	2047.23	41,962,145	76,739,685	33,819,046	1.8288	0.8059
1985		107	2110.52	49,151,218	77,761,378	48,129,525	1.5821	0.9792
1986		107	2139.42	50,809,002	78,311,767	50,258,613	1.5413	0.9892
1987	*	107	2148.07	46,716,190	83,574,312	41,453,645	1.7890	0.8874
1988		108	2171.89	49,093,724	85,635,991	47,032,045	1.7443	0.9580
1989		109	2205.05	65,374,509	105,147,959	45,862,541	1.6084	0.7015
1990		112	2265.64	68,906,409	119,384,013	54,670,355	1.7326	0.7934
1991		113	2330.30	66,677,426	120,663,647	65,397,792	1.8097	0.9808
1992		116	2376.79	66,694,378	129,836,670	57,521,355	1.9467	0.8625
1993		116	2410.53	64,077,980	109,010,201	84,904,449	1.7012	1.3250
1994		117	2471.04	62,220,930	102,263,355	68,967,776	1.6436	1.1084
1995		118	2526.39	62,994,481	89,545,533	75,712,303	1.4215	1.2019
1996		119	2614.71	70,289,831	62,993,508	96,841,856	0.8962	1.3778
1997	**	122	2740.46	69,856,915	49,110,546	83,739,877	0.7030	1.1987
1998		125	2815.99	72,626,164	44,845,521	76,891,189	0.6175	1.0587
1999		126	2859.05	75,595,243	55,028,453	65,412,311	0.7279	0.8653
2000		127	2910.87	80,334,284	72,385,813	62,976,924	0.9011	0.7839
2001		129	2972.16	84,711,549	84,583,631	72,513,731	0.9985	0.8560
2002		130	3020.39	90,646,885	85,771,900	89,458,616	0.9462	0.9869
2003		131	3080.67	82,974,496	46,835,689	121,910,707	0.5645	1.4693
2004		133	3116.44	84,740,941				

\* The date for the unencumbered balance deduction was changed from June 30 to September 1. Effective September 1,1986.

\*\* The date for the unencumbered balance deduction was changed from September 1 to December 31. Effective December 31,1996.



# 2004 APPORTIONMENT RANKINGS

Rankings are from highest apportionment per Needs mile to lowest. Bridges in some cities increases the costs.

			L		MONEY NEEDS	MONEY NEEDS APPORTIONMEN	⊢		TOTAL AP	TOTAL APPORTIONMENT	
		2003	2004			2003	2004			2003	2004
		Total	Population			Total	Money Needs			Total	Total
		Needs	Apportionment			Needs	Apportionment			Needs	Apportionment
Rank	Municipality	Mileage	Per Need Mile	Rank	Municipality	Mileage	Per Need Mile	Ran	Rank Municipality	Mileage	Per Need Mile
~	Falcon Heights	2.54	\$35,981	~	Crookston	11.71	\$29.290	~	Minneapolis	203.00	\$59.049
2	Minneapolis	203.00	30,887	2	Minneapolis	203.00	28,161	2	St. Paul	165.13	56,548
ო	Hopkins	9.32	30,857	с	St. Paul	165.13	28,014	ო	Hopkins	9.32	50,765
4	St. Paul	165.13	28,534	4	Bloomington	75.02	24,108	4	Falcon Heights	2.54	50,117
5	New Hope	12.70	26,966	5	Fairmont	19.49	23,967	5	St. Anthony	5.63	47,410
9	Vadnais Heights	8.32	26,083	9	St. Anthony	5.63	23,840	9	New Hope	12.70	46,875
7	Waseca	6.42	24,805	7	Woodbury	46.03	23,659	7	Columbia Heights	12.53	44,067
8	Oakdale	18.39	24,492	80	Maple Grove	49.10	23,631	8	Bloomington	75.02	42,753
ი	Columbia Heights	12.53	24,441	თ	Thief River Falls	15.06	22,892	6	Stewartville	3.99	42,210
10	New Brighton	14.92	24,436	10	Austin	27.70	21,096	10	Richfield	25.08	42,144
1	Coon Rapids	41.82	24,351	1	Faribault	22.80	21,087	1	St. Louis Park	31.19	42,117
12	Robbinsdale	9.51	24,323	12	Moorhead	29.74	20,808	12	Waseca	6.42	41,857
13	West St. Paul	13.54	23,769	13	Redwood Falls	7.87	20,796	13	Maple Grove	49.10	41,645
14	St. Joseph	3.47	23,713	14	Orono	12.58	20,600	14	Woodbury	46.03	41,155
15	Northfield	12.36	23,648	15	Farmington	13.85	20,577	15	Crookston	11.71	40,748
16	St. Anthony	5.63	23,570	16	Glencoe	6.98	20,523	16	Northfield	12.36	40,530
17	St. Louis Park	31.19	23,496	17	New Ulm	15.33	20,493	17	Anoka	12.64	40,313
18	Anoka	12.64	23,480	18	Sartell	14.28	20,462	18	Owatonna	18.19	39,791
19	Brooklyn Park	48.08	23,368	19	Maplewood	31.71	20,271	19	Rochester	66.55	39,737
20	Shoreview	18.57	23,353	20	Lakeville	51.95	20,242	20	Coon Rapids	41.82	39,563
21	Eagan	46.15	22,962	21	New Hope	12.70	19,909	5	Vadnais Heights	8.32	39,366
52	Stewartville	3.99	22,807	22	Hopkins	9.32	19,908	22	Apple Valley	35.54	39,104
23	Burnsville	44.05	22,643	23	Duluth	112.18	19,878	23	Burnsville	44.05	39,060
24	Waconia	5.53	22,509	24	Little Canada	10.49	19,822	24	Maplewood	31.71	38,819
25	Richfield	25.08	22,495	25	Richfield	25.08	19,649	25	Moorhead	29.74	38,746
26 26	Rochester	66.55 04 50	22,466	26	Columbia Heights	12.53	19,627	26	Brooklyn Center	21.56	38,403
17		0G.12 64 3 3 5	22,169	17	Sauk Kapids	11.8/	19,497	17	Plymouth	54.72 20 CC	38,129
0,00	Champlin	17.01	21.780	07	Buffalo	14.17	19.267	0,00	Mound	8.05	37.636
8	Arden Hills	7.42	21,323	9 OS	La Crescent	5.66	19,125	i R	Farmington	13.85	37,435
31	Inver Grove Heights	23.86	21,079	31	Owatonna	18.19	19,008	31	New Brighton	14.92	37,223
32	Crystal	17.88	20,922	32	Red Wing	23.82	18,978	32	Eden Prairie	45.40	36,826
33	Owatonna	18.19	20,783	33	North Mankato	13.38	18,932	33	Faribault	22.80	36,515
34	Eden Prairie	45.40	20,563	34	Grand Rapids	11.47	18,919	34	St. Joseph	3.47	36,232
35	Chaska	15.13	20,525	35	Little Falls	15.98	18,674	35	Waconia	5.53	36,231
36	Winona	21.77	20,365	36	St. Francis	10.37	18,669	36	Crystal	17.88	36,186
37	Plymouth	54.72	20,301	37	St. Louis Park	31.19	18,621	37	Arden Hills	7.42	35,697
38	White Bear Lake	20.35	19,840	38	St. Peter	14.24	18,530	38	West St. Paul	13.54	35,633
39	South St. Paul	16.82	19,780	39	Mound	8.05	18,389	99 90	Sauk Rapids	11.87	35,259
40	Koseville	28.70	19,460	40	Forest Lake	CZ.35	18,352	40	St. Paul Park	4.92	35,234

	POPULATION A	POPULATION APPORTIONMENT			MONEY NEEDS	MONEY NEEDS APPORTIONMENT			TOTAL AP	TOTAL APPORTIONMENT	
		2003 Total	2004 Population			2003 Total	2004 Money Needs			2003 Total	2004 Total
		Needs	Apportionment			Needs	Apportionment			Needs	Apportionment
Rank	k Municipality	Mileage	Per Need Mile	Rank	Municipality	Mileage	Per Need Mile	Rank	k Municipality	Mileage	Per Need Mile
41	Blaine	40.52	\$19,431	41	St. Paul Park	4.92	\$18,273	41	Little Canada	10.49	\$35,162
42	Edina	40.27	19,347	42	Cottage Grove	31.44	18,180	4	Chaska	15.13	35,140
5 4	Nouna Spring Lake Park	8.05 5.82	19,247	4 4 4 4	Albert Lea	18.74	18,124	5 4 4	Big Lake	21.10 6.37	35,091
45	Big Lake	6.37	18,700	45	Plymouth	54.72	17,828	45	New Ulm	15.33	35.016
46	Bloomington	75.02	18,645	46	Otsego	16.37	17,513	46	Lakeville	51.95	34,835
47	Maplewood	31.71	18,548	47	Shorewood	8.24	17,310	47	Oakdale	18.39	34,830
48	Fridley	24.81	18,128	48	St. Michael	18.88	17,287	48	Winona	21.77	34,640
49	Maple Grove	49.10	18,014	49	Rochester	66.55	17,271	49	Edina	40.27	34,471
50	Moorhead	29.74	17,938	50	Apple Valley	35.54	17,094	50	Brooklyn Park	48.08	34,381
51	Waite Park	6.12	17,904	51	Virginia	15.93	17,058	51	Robbinsdale	9.51	34,352
22	Woodbury	46.03 15 45	17,496	52	Litchfield	8.58 6 42	17,057	22	Cottage Grove	31.44 10 71	34,321
3 2	Sunwater North St Daul	07 11	17 181	00 4	waseca Inver Grove Heights	0.42 73 86	200,71	2 <u>7</u>	Albert Lea North Mankato	10./4	33,902 33,876
22	St. Paul Park	4.92	16,961	22	East Grand Forks	15.19	16.908	55	La Crescent	5.66	33.672
56	Monticello	9.04	16,935	56	Northfield	12.36	16,882	56	Roseville	28.70	33,598
57	Minnetonka	49.89	16,887	57	Fergus Falls	24.32	16,848	57	South St. Paul	16.82	33,567
58	Farmington	13.85	16,857	58	Anoka	12.64	16,833	58	Glencoe	6.98	33,543
59	Mounds View	12.51	16,758	59	Lino Lakes	20.55	16,764	59	Shoreview	18.57	33,337
80	St. Cloud	60.26	16,668	09	Prior Lake	17.58	16,746	80	Eagan	46.15	33,248
61	Mankato Lootingo	33.27	16,425	61 67	Manhato	0:50	16,550	61 61	Missotopho	19.49	33,118
202	Worthington	13.27	16,321	202	Burneville	33.27 44 05	16.462	2 2	St Cloud	49.09 60.26	33,109
8 8	Cottage Grove	31.44	16,141	64	St. Cloud	60.26	16,392	8 8 8	White Bear Lake	20.35	33,045
65	Albert Lea	18.74	16,051	65	Big Lake	6.37	16,341	65	Sartell	14.28	33,036
99	Prior Lake	17.58	15,993	99	Eden Prairie	45.40	16,263	99	Waite Park	6.12	32,941
67	Shakopee	24.53	15,960	67	Brooklyn Center	21.56	16,234	67	Mankato	33.27	32,906
68	Sauk Rapids	11.87	15,762	68	Minnetonka	49.89	16,221	68	Prior Lake	17.58	32,739
69	Chanhassen	22.27	15,698	69	International Falls	8.06	15,890	69 1	Duluth	112.18	32,481
27	Faribault	22.80	15,428	2 2	Cloquet	20.14	15,660	2 2	Buffalo	14.17	32,469
- 62	Savare Savare	24.92	15.261	- 62	Marshall	20.91 15.48	15,366	- 62	Blaine	0.24 40.52	32,330
73	Mahtomedi	8.62	15,257	73	Crystal	17.88	15,264	73	Redwood Falls	7.87	32,157
74	Shorewood	8.24	15,086	74	Coon Rapids	41.82	15,212	74	Monticello	9.04	32,086
75	North Mankato	13.38	14,944	75	Monticello	9.04	15,151	75	Thief River Falls	15.06	32,078
91	New Prague	5.52	14,892	76	Edina	40.27	15,124	9/	Champlin	17.01	32,008
2 64	Lakeville	51.95 5.66	14,592	/ /	Hermantown	14.08	15,051		Hutchinson	16.65 20 FF	31,312
0 0		0.00	14,047	0 7	VValle Park	0.12	15,037	0 0	Morthington	05.02	21,004
6,08	Golden Vallev	23.57	14,324	6.08	Hibbing	51.31	15,003	6,08	Grand Ranide	71.17	30.714
8 8	Lino Lakes	20.55	14,300	81	Willmar	23.91	14,998	8 8	Orono	12.58	30,528
82	Austin	27.70	13,996	82	Elk River	30.42	14,831	82	Stillwater	15.45	30,426
83	Brainerd	16.12	13,884	83	Worthington	11.39	14,798	83	North St. Paul	11.40	30,395
84	International Falls	8.06	13,629	84	Chaska	15.13	14,615	84	Mounds View	12.51	30,376
85	Marshall	15.48	13,520	85	Savage	24.92	14,584	85	Red Wing	23.82	30,164
86	Mendota Heights	14.39	13,203	86	Golden Valley	23.57	14,449	86	St. Peter	14.24	30,008
87	Buffalo	14.17	13,202	87	Arden Hills	7.42	14,374	87	Savage	24.92	29,845
8	HUICHIIISOU	C0.01	13,100	00	INIOITIS	0.11	14,330	8	LICTIIEIO	00.0	29,130

	POPULATION APPORTIONMENT	PPORTIONMEN	L		MONEY NEED	MONEY NEEDS APPORTIONMENT			TOTAL AP	TOTAL APPORTIONMENT	
		2003 Totol	2004 Decoded			2003 Totol	2004 Manage Name			2003 Totol	2004 Total
		Needs	Apportionment			Needs	Apportionment			Needs	Apportionment
Rank	Municipality	Mileage	Per Need Mile	Rank	Municipality	Mileage	Per Need Mile	Rank	k Municipality	Mileage	Per Need Mile
68	Glencoe	6.98	\$13,021	89	Alexandria	15.90	\$14,317	89	Lake City	6.50	\$29,535
6	Lake City	6.50	12,984	06	Winona	21.77	14,275	83	International Falls	8.06	29,519
5	Semiaji	07.9L	12,786	- C	Cambridge Becomount	11.07	G12,91	5	Forest Lake	22.35 15 40	29,413
7 E 6	L itchfield	30.12 8.58	12,681	2 C C	Oak Grove	19.50	14,230	2 8	Shakonee	13.40 24.53	20,000
8 8	Willmar	23.91	12,681	94	Chisholm	7.99	14,152	8 8	Golden Valley	23.57	28,789
95	Duluth	112.18	12,603	95	Roseville	28.70	14,138	95	Hastings	19.27	28,316
96	Sartell	14.28	12,574	96	Falcon Heights	2.54	14,137	96	Spring Lake Park	5.82	27,835
97	Grand Rapids	11.47	11,795	97	South St. Paul	16.82	13,787	97	Willmar	23.91	27,679
86 0	St. Peter	14.24	11,478	86	Waconia	5.53	13,722	98 0	Fridley	24.81	27,678
66	Crookston	11.71	11,458	66 707	Mounds View	12.51	13,618	66		10.37	27,640
001	Redwood Falls	18.1	11,301	86	Vadnais Heights	8.32	13,283	001	Ct Michael	98.CT 99.01	27,001
0		20.02	11,100		White Bear Lake	01.40	13,213	5	Virginia	15.02	21,001
103	Montevideo	8.25	10.887	103	Stillwater	15.45	13.158	103	Mahtomedi	8.62	26.382
104	Roders	7.71	10,643	104	Andover	36.72	13,106	104	_	24.32	26.077
105	Lake Elmo	11.42	10,594	105	Shakopee	24.53	12,879	105		36.72	25,891
106	Ramsey	29.32	10,519	106	New Brighton	14.92	12,787	106	-	16.37	25,727
107	Morris	8.11	10,516	107	Blaine	40.52	12,739	107		15.19	25,069
108	Chisholm	7.99	10,249	108	Detroit Lakes	13.33	12,734	108	-	20.14	24,912
109	Rosemount	25.93	10,176	109	St. Joseph	3.47	12,518	109	_	8.11	24,845
110	Alexandria	15.90	10,173	110	Montevideo	8.25	12,307	110	Bemidji	16.25	24,792
		12.58	9,927		North Branch	22.53	12,097		Mendota Heights	14.39	24,595
212	EIK KIVer St Michael	30.42	9,735		Bemidji Hootingo	10.25	12,006		LIK KIVEr	30.42	24,507
114	ot. Iviicriaei Hermantown	14.08	9,413	114	Meet St Paul	13.54	11,995	011 114	Alexandria	15.90	24,504
115	Virainia	15.93	9.415	115	Baxter	12.77	11.771	115	Rosemount	25.93	24.426
116	Detroit Lakes	13.33	9,294	116	Mendota Heights	14.39	11,392	116	Chisholm	7.99	24,401
117	Cloquet	20.14	9,253	117	Hugo	16.79	11,154	117	Chanhassen	22.27	24,219
118	Fergus Falls	24.32	9,228	118	Mahtomedi	8.62	11,125	118	Brainerd	16.12	23,519
119	Thief River Falls	15.06	9,186	119	Brooklyn Park	48.08	11,012	119	_	26.51	23,380
120	Fairmont	19.49	9,151	120	Rogers	7.7	10,741	120	_ `	8.25	23,194
121	St. Francis Cambridae	10.37	8,971 8,640	121	Uakaale Faran	18.39 46.15	10,338	121	Cambridge East Bethel	70.11 26.91	22,924
123	Little Falls	15.98	8,416	123	Champlin	17.01	10,228	123	_	13.33	22,027
124	Ham Lake	26.51	8,375	124	Robbinsdale	9.51	10,029	124	Rogers	7.71	21,384
125	Otsego	16.37	8,214	125	Shoreview	18.57	9,983	125		5.52	20,667
126	East Grand Forks	15.19	8,161	126	Brainerd	16.12	9,635	126	_	51.31	20,451
127	Baxter	12.77	7,857	127	Ramsey	29.32	9,624	127	•	19.50	20,199
128	Hugo	16.79	7,706	128	Fridley	24.81	9,550	128		29.32	20,142
129	East Bethel	26.91	6,815	129	Corcoran	14.80	8,847	129		12.77	19,628
130	North Branch	22.53	6,527 6 416	130	Spring Lake Park	5.82	8,629	130	_	16.79 22 E2	18,860
1.51			0,410	2		12.22	- 70,0	2 6		00.22	10,024
132	Oak Grove Hibbing	19.50 51 31	5,955 5,440	132	Lake Elmo New Pradice	11.42 5 52	8,027 5 775	132		11.42 14 80	18,621 15 767
<u></u>		10.10	0,449	2		7C.C	0//0	2		14.00	202,01
	AVEKAGE		\$10,203		AVERAGE		\$10,137		AVERAGE		\$3Z,4UZ

March, 2004

#### CY 2004 Local Road Research Board Program

INV	TITLE	PROJECT TOTAL	2003	2004	2005
	Implementation of Research	Ongoing	\$ 150,000	\$150,000	\$150,000
	Technology Transfer Center, U of M - Base	Ongoing	150,000	150,000	150,000
	Technology Transfer Center, U of M - Cont. Projects:	0 0	,	100,000	,00,000
	Circuit Training and Assist.Program (CTAP), Instructor-\$50,000, T <sup>2</sup> Center-\$77,500	Ongoing	127,500	127,500	127,500
	Minnesota Maintenance Research Expos	Ongoing	20,000	20,000	20,000
	Transportation Student Development	Ongoing	4,000	4,000	4,000
	Materials & Road Research Mn/ROAd Facility Support- \$500,000, Staff Support-\$60,000	Ongoing	560,000	560,000	560,000
745	Library Services for Local Governments	Ongoing	60,000	60,000	60,000
768	Geosynthetics in Roadway Design	30,000	3,000	3,000	3,000
792	Pavement Research Institute Director	300,000	60,000	60,000	60,000
793	Design & Construction of Low Volume Roads Training	56,000	37,000	19,000	0
	Urbanization of MN's Countryside: 2000-2005 - Future Geographics & Trans. Impacts	40,000	10,000	20,000	10,000
	Impact of Alternative Storm Water Management Approaches on Highway Infrastructure	121,896	63,375	58,521	0
	Cost Effectiveness Analysis of Storm Water Runoff Best Management Practices	98,000	49,000	49,000	0
	Adaptation of Mechanistic-Empirical 2003 Guide for Design of MN Low-Volume PCC	25,000	12,500	12,500	0
	Perf. Of Pvmt. Crack Sealants Beneath Bituminous Overlays	60,000	48,000	12,000	0
	Determination of Optimum Time for Application of Surface Treatments to Asphalt Concrete Pavements	28,400	28,400	0	0
	Investigation of the Low-Temperature Fracture Properties of Three MnRoad Asphalt Mixtures	59,800	29,900	29,900	0
805	Safety Impacts of Street Lighting at Isolated Rural Intersections – Phase II	51,180	17,060	17,060	17,060
806	Snow and Ice Maintenance Operation Field Guide	24,000	24,000	0	0
807	Evaluating Completed Research Projects for Implementation	25,000	0	25,000	0
808	Pavement Rehabilitation Selection	101,000	0	50,500	50,500
809	Research Tracking LRRB	60,000	0	12,000	12,000
810	Coal Ash Utilization in Gravel Roads	149,280	0	73,445	75,835
811	Match for Snow Plow Routing Study	30,000	0	30,000	0
	Resilient Modulus & Strength of Base Course with Recycled Asphalt Pavements	94,000	0	47,000	47,000
	Human-Centered Interventions Toward Zero Deaths in Rural Minnesota: Psychological Factors, Driver Risk Tasking, and Acceptable Interventions	188,961	0	188,961	0
	Implications of State Aid Cuts for Local Road Funding	45,000	0	45,000	0
	Calibration of the 2002 AASHTO Pavement Design Guide for Minnesota Portland Cement Concrete Pavements and Hot Mix Asphalt Pavements	126,600	0	63,300	63,300
	Low Temperature Cracking of Flexible Pavements Due to Thermal Fatigue and Combined Effects of Loading and Temperature	155,000	0	95,000	60,000
	Determination of Optimum Time for the Application of Surface Treatments to Asphalt Concrete Pavements	226,000	0	113,000	
	Synthesis of Benefit/Cost Spring Load Restrictions	20,000	0	20,000	
	Cell 26 Reconstruction at Mn/ROAD	30,000	0	30,000	
998	Operational Research Program	140,000	0	70,000	70,000
999	Program Administration	Ongoing	150,000	225,000	225,000
	TOTALS			\$2,440,687	\$1,765,195

#### Italicized = Anticipated

#### Bold = Funding Previously Approved

#### C.Y. 2004 SUMMARY:

	• · · · · · · · · · · · · · · · · · · ·		* - · · · · · ·
Funds Allotted for 2004	\$ 2,223,195	City	\$544,962
Unprogrammed Funds Carried over from 2003	63,595	County	1,678,233
Funds from Cancelled Projects*	165,000	Total	\$2,223,195
Inv. 999 Carry Forward from C.Y. 03**	75,000		
Total Funds Available for 2004	\$2,526,790		
Total 2004 Commitments, Carryover & Continuation Projects	\$2,277,687		
CY 2004 Funds Available for Programming	\$249,103		

\*Board action taken 9/17/03 to cancel Inv. 678, 718, 719 and 740 \*\*C.Y. 03 funds budgeted for Inv. 999 but not used

# <u>COUNTY HIGHWAY TURNBACK</u> <u>POLICY</u>

#### **Definitions:**

County Highway – Either a County State Aid Highway or a County Road

County Highway Turnback- A CSAH or a County Road which has been released by the county and designated as an MSAS roadway. A designation request must be approved and a Commissioner's Order written. A County Highway Turnback may be either County Road (CR) Turnback or a County State Aid (CSAH) Turnback. (See Minnesota Statute 162.09 Subdivision 1). A County Highway Turnback designation has to stay with the County Highway turned back and is not transferable to any other roadways.

Basic Mileage- Total improved mileage of local streets, county roads and county road turnbacks. Frontage roads which are not designated trunk highway, trunk highway turnback or on the County State Aid Highway System shall be considered in the computation of the basic street mileage. A city is allowed to designate 20% of this mileage as MSAS. (See Screening Board Resolutions in the back of the most current booklet).

#### MILEAGE CONSIDERATIONS

#### County State Aid Highway Turnbacks

A CSAH Turnback **is not** included in a city's basic mileage, which means it **is not** included in the computation for a city's 20% allowable mileage. However, a city may draw Construction Needs and generate allocation on 100% of the length of the CSAH Turnback

#### County Road Turnbacks

A County Road Turnback **is** included in a city's basic mileage, so it **is** included in the computation for a city's 20% allowable mileage. A city may also draw Construction Needs and generate allocation on 100% of the length of the County Road Turnback.

#### Jurisdictional Exchanges

#### County Road for MSAS

Only the **extra** mileage a city receives in an exchange between a County Road and an MSAS route **will be** considered as a County Road Turnback.

If the mileage of a jurisdictional exchange is **even**, the County Road **will not be** considered as a County Road Turnback.

If a city receives **less** mileage in a jurisdictional exchange, the County Road **will not be** considered as a County Road Turnback.

# CSAH for MSAS

Only the **extra** mileage a city receives in an exchange between a CSAH and an MSAS route **will be** considered as a CSAH Turnback.

If the mileage of a jurisdictional exchange is **even**, the CSAH **will not be** considered as a CSAH Turnback.

If a city receives **less** mileage in a jurisdictional exchange, the CSAH **will not be** considered as a CSAH Turnback

## NOTE:

When a city receives **less** mileage in a CSAH exchange it will have less mileage to designate within its 20% mileage limitation and may have to revoke mileage the following year when it computes its allowable mileage.

*Explanation*: After this exchange is completed, a city will have more CSAH mileage and less MSAS mileage than before the exchange. The new CSAH mileage was included in the city's basic mileage when it was MSAS (before the exchange) but is not included when it is CSAH (after the exchange). So, after the jurisdictional exchange the city will have less basic mileage and 20% of that mileage will be a smaller number.

If a city has more mileage designated than the new, lower 20% allowable mileage, the city will be over designated and be required to revoke some mileage. If a revocation is necessary, it will not have to be done until the following year after a city computes its new allowable mileage.

## MSAS designation on a County Road

County Roads can be designated as MSAS. If a County Road which is designated as MSAS is turned back to the city, it will not be considered as County Road Turnback.

## **MISCELLANEOUS**

A CSAH which was previously designated as Trunk Highway turnback on the CSAH system and is turned back to the city will lose all status as a TH turnback and only be considered as CSAH Turnback.

A city that had previously been over 5,000 population, lost its eligibility for an MSAS system and regained it shall revoke all streets designated as CSAH at the time of eligibility loss and consider them for MSAS designation. These roads will not be eligible for consideration as CSAH turnback designation.

In a city that becomes eligible for MSAS designation for the first time all CSAH routes which serve only a municipal function and have both termini within or at the municipal boundary, should be revoked as CSAH and considered for MSAS designation. These roads will not be eligible for consideration as CSAH turnbacks.

# STATUS OF MUNICIPAL TRAFFIC COUNTING

The current Municipal State Aid Traffic Counting resolution reads:

That future traffic data for State Aid Needs Studies be developed as follows:

- 1. The municipalities in the metropolitan area cooperate with the State by agreeing to participate in counting traffic every two or four years at the discretion of the city.
- 2. The cities in the outstate area may have their traffic counted and maps prepared by State forces every four years, or may elect to continue the present procedure of taking their own counts and have state forces prepare the maps.
- 3. Any city may count traffic with their own forces every two years at their discretion and expense, unless the municipality has made arrangements with the Mn/DOT district to do the count.

In 1998, cities were given the option of counting on a 2 or 4 year cycle. The following traffic counting schedules are in effect:

#### **Metro District**

Two year traffic counting schedule -counted in 2003 and updated in the needs in 2004

Andover	East Bethel	
Apple Valley	Eden Prairie	Mounds View
Blaine	Farmington	Oakdale
Bloomington	Forest Lake	Plymouth
Brooklyn Center	Ham Lake	Prior Lake
Brooklyn Park	Hastings	Ramsey
Burnsville	Hugo	Rosemount
Champlin	Inver Grove Heights	St. Anthony
Chanhassen	Lake Elmo	St. Paul Park
Chaska	Lakeville	Savage
Coon Rapids	Lino Lakes	Shakopee
Corcoran	Little Canada	Shoreview
Cottage Grove	Maple Grove	Vadnais Heights
Dayton	Mendota Heights	Woodbury
Eagan	Minneapolis	
	Minnetonka	

#### **Metro District**

Four year traffic counting schedule - to be counted in 2005 and updated in the needs in 2006

Anoka	Maplewood
Arden Hills	Mound
Columbia Heights	New Brighton
Crystal	New Hope
Edina	North Branch
Falcon Heights	North St. Paul
Fridley	Oak Grove
Golden Valley	Orono
Hopkins	Richfield
Hopkins	Richfield
Mahtomedi	Robbinsdale

Roseville Shorewood South Saint Paul Spring Lake Park Stillwater St. Louis Park St. Paul West St. Paul White Bear Lake

#### Outstate

Two year traffic counting schedule - to be counted in 2003 and updated in the needs in 2004

Sartell

Northfield St. Cloud

#### Outstate

Two year traffic counting schedule - to be counted in 2004 and updated in the needs in 2005

Rochester

## Outstate

Two year traffic counting schedule - to be counted in 2005 and updated in the needs in 2006

Brainerd

## Outstate

Four year traffic counting schedule - to be counted in 2003 and updated in the needs in 2004

Bemidji	
Cambridge	
Chisholm	
Elk River	
Fergus Falls	
Hermantown	
Hibbing	
Hutchinson	

La Crescent Lake City Litchfield North Mankato Owatonna Red Wing St. Peter Sauk Rapids Thief River Falls Virginia Waite Park Waseca Winona Outstate

Four year traffic counting schedule - to be counted in 2004 and updated in the needs in 2005

Austin	International Falls	Otsego
Buffalo	Montevideo	
Detroit Lakes	Monticello	

#### Outstate

Four year traffic counting schedule - to be counted in 2005 and updated in the needs in 2006

Albert Lea	
Baxter	
Crookston	
East Grand Forks	
Fairmont	

Faribault Grand Rapids Little Falls Mankato Marshall Moorhead Morris New Ulm

#### Outstate

Four year traffic counting schedule - to be counted in 2006 and be updated in the needs in 2007

Alexandria Cloquet Stewartville Willmar Worthington

Duluth counts 1/4 of the city each year.

# CURRENT RESOLUTIONS OF THE MUNICIPAL SCREENING BOARD

# June 2004

# Wording in **bold** (except headings) are the most recent Screening Board revisions

**BE IT RESOLVED:** 

# **ADMINISTRATION**

# Appointments to Screening Board - Oct. 1961 (Revised June 1981)

That annually the Commissioner of Mn/DOT will be requested to appoint three (3) new members, upon recommendation of the City Engineers Association of Minnesota, to serve three (3) year terms as voting members of the Municipal Screening Board. These appointees are selected from the Nine Construction Districts together with one representative from each of the three (3) major cities of the first class.

# Screening Board Chair, Vice Chair and Secretary- June 1987 (Revised June, 2002)

That the Chair Vice Chair, and Secretary, nominated annually at the annual meeting of the City Engineers association of Minnesota and subsequently appointed by the Commissioner of the Minnesota Department of Transportation shall not have a vote in matters before the Screening Board unless they are also the duly appointed Screening Board Representative of a construction District or of a City of the first class.

## Appointment to the Needs Study Subcommittee - June 1987 (Revised June 1993)

That the Screening Board Chair shall annually appoint one city engineer, who has served on the Screening Board, to serve a three year term on the Needs Study Subcommittee. The appointment shall be made at the annual winter meeting of the City's Engineers Association. The appointed subcommittee person shall serve as chair of the subcommittee in the third year of the appointment.

# Appointment to Unencumbered Construction Funds Subcommittee - Revised June 1979

That the Screening Board past Chair be appointed to serve a three-year term on the Unencumbered Construction Fund Subcommittee. This will continue to maintain an experienced group to follow a program of accomplishments.

## Appearance Screening Board - Oct. 1962 (Revised Oct. 1982)

That any individual or delegation having items of concern regarding the study of State Aid Needs or State Aid Apportionment amounts, and wishing to have consideration given to these items, shall, in a written report, communicate with the State Aid Engineer. The State Aid Engineer with

concurrence of the Chair of the Screening Board shall determine which requests are to be referred to the Screening Board for their consideration. This resolution does not abrogate the right of the Screening Board to call any person or persons before the Board for discussion purposes.

# Screening Board Meeting Dates and Locations - June 1996

That the Screening Board Chair, with the assistance of the State Aid Engineer, determine the dates and locations for that year's Screening Board meetings.

# Research Account - Oct. 1961

That an annual resolution be considered for setting aside a reasonable amount of money for the Research Account to continue municipal street research activity.

That an amount of **\$544,962** (not to exceed 1/2 of 1% of the **2003** MSAS Apportionment sum of **\$108,992,464**) shall be set aside from the **2004** Apportionment fund and be credited to the research account.

## Soil Type - Oct. 1961

That the soil type classification as approved by the 1961 Municipal Screening Board, for all municipalities under Municipal State Aid be adopted for the 1962 Needs Study and 1963 apportionment on all streets in the respective municipalities. Said classifications are to be continued in use until subsequently amended or revised by Municipal Screening Board action.

That when a new municipality becomes eligible to participate in the MSAS allocation, the soil type to be used for Needs purposes shall be based upon the City Engineer's recommendation with the concurrence of the District State Engineer.

## Improper Needs Report - Oct. 1961

That the State Aid Engineer and the District State Aid Engineer are requested to recommend an adjustment of the Needs reporting whenever there is a reason to believe that said reports have deviated from accepted standards and to submit their recommendations to the Screening Board, with a copy to the municipality involved, or its engineer.

## New Cities Needs - Oct. 1983

That any new city having determined its eligible mileage, but does not have an approved State Aid Street System, will have its money Needs determined at the cost per mile of the lowest other city.

# Construction Cut Off Date - Oct. 1962 (Revised 1967)

That for the purpose of measuring the Needs of the Municipal State Aid Street System, the annual cut off date for recording construction accomplishments shall be based upon the project award date and shall be December 31st of the preceding year.

# Construction Accomplishments - Oct. 1988 (Revised June 1993, October 2001, October 2003)

That when a Municipal State Aid Street is constructed to State Aid Standards, said street shall be considered adequate for a period of 20 years from the date of project letting or encumbrance of force account funds.

That in the event sidewalk or curb and gutter is constructed for the total length of the segment, those items shall be removed from the Needs for a period of 20 years.

All segments considered deficient for Needs purposes and receiving complete Needs shall receive street lighting Needs at the current unit cost per mile.

That if the construction of a Municipal State Aid Street is accomplished with local funds, only the Construction Needs necessary to bring the roadway **segment** up to State Aid Standards will be permitted in subsequent Needs for 20 after 10 years from the date of the letting or encumbrance of force account funds. For the purposes of the Needs Study, these shall be called Widening Needs. At the end of the 20 year period, Widening Needs shall continue until reinstatement for complete Construction Needs shall be initiated by the Municipality.

That Needs for resurfacing, and traffic signals shall be allowed on all Municipal State Aid Streets at all times.

That any bridge construction project shall cause the Needs of the affected bridge to be removed for a period of 35 years from the project letting date or date of force account agreement. At the end of the 35 year period, Needs for complete reconstruction of the bridge will be reinstated in the Needs Study at the initiative of the Municipal Engineer.

That the adjustments above will apply regardless of the source of funding for the road or bridge project. Needs may be granted as an exception to this resolution upon request by the Municipal Engineer and justified to the satisfaction of the State Aid Engineer (e.g., a deficiency due to changing standards, projected traffic, or other verifiable causes).

That in the event that an M.S.A.S. route earning "After the Fact" Needs is removed from the M.S.A.S. system, then, the "After the Fact" Needs shall be removed from the Needs Study, except if transferred to another state system. No adjustment will be required on Needs earned prior to the revocation.

## Population Apportionment - October 1994, 1996

That beginning with calendar year 1996, the MSAS population apportionment shall be determined using the latest available federal census or population estimates of the State Demographer and/or the Metropolitan Council. However, no population shall be decreased below that of the latest available federal census, and no city dropped from the MSAS eligible list based on population estimates.

# **DESIGN**

# Design Limitation on Non-Existing Streets - Oct. 1965

That non-existing streets shall not have their Needs computed on the basis of urban design unless justified to the satisfaction of the State Aid Engineer.

# Less Than Minimum Width - Oct. 1961 (Revised 1986)

That if a Municipal State Aid Street is constructed with State Aid funds to a width less than the design width in the quantity tables for Needs purposes, the total Needs shall be taken off such constructed street other than Additional Surfacing Needs.

Additional surfacing and other future Needs shall be limited to the constructed width as reported in the Needs Study, unless exception is justified to the satisfaction of the State Aid Engineer.

# Greater Than Minimum Width (Revised June 1993)

That if a Municipal State Aid Street is constructed to a width wider than required, Resurfacing Needs will be allowed on the constructed width.

# Miscellaneous Limitations - Oct. 1961

That miscellaneous items such as fence removal, bituminous surface removal, manhole adjustment, and relocation of street lights are not permitted in the Municipal State Aid Street Needs Study. The item of retaining walls, however, shall be included in the Needs Study.

# MILEAGE - Feb. 1959 (Revised Oct. 1994. 1998)

That the maximum mileage for Municipal State Aid Street designation shall be 20 percent of the municipality's basic mileage - which is comprised of the total improved mileage of local streets, county roads and county road turnbacks.

Nov. 1965 – (Revised 1969, October 1993, October 1994, June 1996, October 1998)

However, the maximum mileage for State Aid designation may be exceeded to designate trunk highway turnbacks after July 1, 1965 and county highway turnbacks after May 11, 1994 subject to State Aid Operations Rules.

Nov. 1965 (Revised 1972, Oct. 1993, 1995, 1998)

That the maximum mileage for Municipal State Aid Street designation shall be based on the Annual Certification of Mileage current as of December 31st of the preceding year. Submittal of a supplementary certification during the year shall not be permitted. Frontage roads not designated Trunk Highway, Trunk Highway Turnback or County State Aid Highways shall be considered in the computation of the basic street mileage. The total mileage of local streets, county roads and county road turnbacks on corporate limits shall be included in the municipality's basic street mileage. Any State Aid Street that is on the boundary of two adjoining urban municipalities shall be considered as one-half mileage for each municipality.

That all mileage on the MSAS system shall accrue Needs in accordance with current rules and resolutions.

Oct. 1961 (Revised May 1980, Oct. 1982, Oct. 1983, June 1993, June 2003)

That all requests for revisions to the Municipal State Aid System must be received by the District State Aid Engineer by March first to be included in that years Needs Study. If a system revision has been requested, a City Council resolution approving the system revisions and the Needs Study reporting data must be received by May first, to be included in the current year's Needs Study. If no system revisions are requested, the District State Aid Engineer must receive the Normal Needs Updates by March 31<sup>st</sup> to be included in that years' Needs Study.

One Way Street Mileage - June 1983 (Revised Oct. 1984, Oct. 1993, June 1994, Oct. 1997)

That any one-way streets added to the Municipal State Aid Street system must be reviewed by the Needs Study Sub-Committee, and approved by the Screening Board before any one-way street can be treated as one-half mileage in the Needs Study.

That all approved one-way streets be treated as one-half of the mileage and allow one-half complete Needs. When Trunk Highway or County Highway Turnback is used as part of a one-way pair, mileage for certification shall only be included as Trunk Highway or County Turnback mileage and not as approved one-way mileage.

# NEEDS COSTS

That the Needs Study Subcommittee shall annually review the Unit Prices used in the Needs Study. The Subcommittee shall make its recommendation the Municipal Screening Board at its annual spring meeting.

Roadway Item Unit Pr	ices (Reviewed Annually)		
Right of Way (Needs Only)			\$93,000 per Acre
Grading (Excavation)			\$3.80 per Cu. Yd.
Base:			
	Class 5 Gravel	Spec. #2211	\$7.30 per Ton
	Bituminous	Spec. #2350	\$31.00 per Ton
Surface:			
	Gravel	Spec. #2118	\$5.35 per Ton
	Bituminous	Spec. #2350	\$31.00 per Ton
Shoulders:			
	Gravel	Spec. #2221	\$13.40 per Ton
Miscellaneous:			
	Storm Sewer Construction		\$257,375 per Mile

	Storm Sewer Adjustment	\$82,700 per Mile
	Special Drainage (rural segments only)	\$37,400 per Mile
	Street Lighting	\$80,000 per Mile
	Curb & Gutter Construction	\$8.00 per Lineal Foot
	Sidewalk Construction	\$23.50 per Sq. Yd.
	Project Development	20%
Removal Items:		
	Curb & Gutter	\$2.60 per Lineal Foot
	Sidewalk	\$5.50 per Sq. Yd.
	Concrete Pavement	\$5.40 per Sq. Yd.
	Tree Removal	\$225.00 per Unit

Traffic Signal Nee segment)				
Projected Traffic	Percentage X	Unit Price =	Need	ls Per Mile
0 - 4,999	25%	\$124,000	\$31,0	000 per Mile
5,000 - 9,999	50%	\$124,000	\$62,0	000 per Mile
10,000 and Over	100%	\$124,000	\$124	,000 per Mile

# Bridge Width & Costs - (Reviewed Annually)

That after conferring with the Bridge Section of Mn/DOT and using the criteria as set forth by this Department as to the standard design for railroad structures, that the following costs based on number of tracks be used for the Needs Study:

Bridge Unit Costs	
Bridges 0 to 149 Feet long	\$70.00 per Sq. Ft.
Bridges 150 to 499 Feet long	\$70.00 per Sq. Ft.
Bridges 500 Feet and Over	\$70.00 per Sq. Ft.

Railroad Over Highway		
One Track	\$9,300 per Linear Foot	
Each Additional Track	\$7,750 per Linear Foot	

# "Non-existing" bridge costs - Revised October 1997

That the Construction Needs for all "non-existing" bridges and grade separations be removed from the Needs Study until such time that a construction project is awarded. At that time a Construction Needs adjustment shall be made by annually adding the total amount of the structure cost, project development cost and construction engineering that is eligible for State Aid reimbursement for a 15-year period excluding all Federal or State grants. Project Development costs, at the current percentage, shall be included with all Non Existing Bridge Needs.

# RAILROAD CROSSINGS

## Railroad Crossing Costs - (Reviewed Annually)

That for the study of Needs on the Municipal State Aid Street System, the following costs shall be used in computing the Needs of the proposed Railroad Protection Devices:

Railroad Grade Crossings		
Signals - (Single track - low speed)	\$120,000 per Unit	
Signals and Gates (Multiple Track – high speed)	\$160,000 per Unit	
Signs Only & (low speed)	\$1,000 per Unit	
Concrete Crossing Material Railroad Crossings (Per Track)	\$1,000 per Linear Foot	
Pavement Marking	\$750 per Unit	

## Maintenance Needs Costs - June 1992 (Revised 1993)

That for the study of Needs on the Municipal State Aid Street System, the following costs shall be used in determining the Maintenance Apportionment Needs cost for existing segments only.

Maintenance Needs Costs	Cost For Under 1000 Vehicles Per Day	Cost For Over 1000 Vehicles Per Day
Traffic Lanes Segment length times number of Traffic lanes times cost per mile	\$1,500 per Mile	\$2,500 per Mile
Parking Lanes: Segment length times number of parking lanes times cost per mile	\$1,500 per Mile	\$1,500 per Mile
Median Strip: Segment length times cost per mile	\$500 per Mile	\$980 per Mile
Storm Sewer: Segment length times cost per mile	\$500 per Mile	\$500 per Mile
Traffic Signals:	\$500 per Unit	\$500 per Unit

Number of traffic signals times cost per signal		
Minimum allowance per mile is determined by segment length times cost per mile.	\$5,000 per Mile	\$5,000 per Mile

# NEEDS ADJUSTMENTS

# **Bond Adjustment** - Oct. 1961 (Revised 1976, 1979, 1995, 2003)

That a separate annual adjustment shall be made in total money Needs of a municipality that has sold and issued bonds pursuant to Minnesota Statutes, Section 162.18, for use on State Aid projects.

That this adjustment, which covers the amortization (payment) period, and which annually reflects the net unamortized bonded debt (remaining principal payments due) shall be accomplished by adding said net unamortized (principal) amount to the computed Construction needs of the municipality.

That for the purpose of this adjustment, the net unamortized bonded debt (remaining principal) shall be the total unamortized bonded indebtedness (deducted from the amount of projects applied against the bond) less the unexpended bond amount (less the amount of projects not encumbered) as of December 31st of the preceding year. The charges for selling the bond issue shall be deducted from the amount that projects are applied against.

"Bond account money spent off State Aid System the Municipal State Aid, CSAH, or Trunk Highway system would not be eligible for Bond Account Adjustment. This action would not be retroactive, but would be in effect for the remaining term of the Bond issue."

## Effective January 1, 1996

The Construction Needs shall be annually reduced by 10% of the total bond issue amount. The computation of Needs shall be started in the year that bond principal payments are made to the city.

<u>Unencumbered Construction Fund Balance Adjustment</u> - Oct. 1961 (Revised October 1991, 1996, October, 1999, *2003*)

That for the determination of Apportionment Needs, the amount of the a city with a positive unencumbered construction fund balance as of December 31st of the current year shall be have that amount deducted from the its 25-year total Needs. of each individual municipality. A municipality with a negative unencumbered construction fund balance as of December 31<sup>st</sup> of the current year shall have that amount added to its 25 year total Needs.

That funding Requests received before December 1st by the District State Aid Engineer for payment shall be considered as being encumbered and the construction balances shall be so adjusted.

## Excess Unencumbered Construction Fund Balance Adjustment – Oct. 2002

That the December 31 construction fund balance will be compared to the annual construction allotment from January of the same year.

If the December 31 construction fund balance exceeds 3 times the January construction allotment and \$1,000,000, the first year adjust the Tothe Needs will be 1 times the December

31 construction fund balance. In each consecutive year the December 31 construction fund balance exceeds 3 times the January construction allotment and \$1,000,000, the adjustment to the Needs will be increased to 2, 3, 4, etc. times the December 31 construction fund balance until such time the Construction Needs are adjusted to zero.

If the December 31 construction fund balance drops below 3 times the January construction allotment and subsequently increases to over 3 times, the multipliers shall start over with one. This adjustment will be in addition to the unencumbered construction fund balance adjustment and takes effect for the 2004 apportionment.

# Low Balance Incentive - Oct. 2003

That the amount of the Excess Unencumbered Construction Fund Balance Adjustment shall be redistributed to the Construction Needs of all municipalities whose December 31<sup>st</sup> construction fund balance is less than 1 times their January construction allotment of the same year. This redistribution will be based on a city's prorated share of its Unadjusted Construction Needs to the total Unadjusted Construction Needs of all participating cities times the total Excess Balance Adjustment.

# Right of Way - Oct. 1965 (Revised June 1986, 2000)

That Right of Way Needs shall be included in the Total Needs based on the unit price per acre until such time that the right of way is acquired and the actual cost established. At that time a Construction Needs adjustment shall be made by annually adding the local cost (which is the total cost less county or trunk highway participation) for a 15-year period. Only right of way acquisition costs that are eligible for State-Aid reimbursement shall be included in the right-of-way Construction Needs adjustment. This Directive to exclude all Federal or State grants. The State Aid Engineer shall compile right-of-way projects that are funded with State Aid funds.

When "After the Fact" Needs are requested for right-of-way projects that have been funded with local funds, but qualify for State Aid reimbursement, documentation (copies of warrants and description of acquisition) must be submitted to the State Aid Engineer.

# Trunk Highway Turnback - Oct. 1967 (Revised June 1989)

That any trunk highway turnback which reverts directly to the municipality and becomes part of the State Aid Street system shall not have its Construction Needs considered in the Construction Needs apportionment determination as long as the former trunk highway is fully eligible for 100 percent construction payment from the Municipal Turnback Account. During this time of eligibility, financial aid for the additional maintenance obligation, of the municipality imposed by the turnback shall be computed on the basis of the current year's apportionment data and shall be accomplished in the following manner.

That the initial turnback adjustment when for less than 12 full months shall provide partial maintenance cost reimbursement by adding said initial adjustment to the Construction Needs which will produce approximately 1/12 of \$7,200 per mile in apportionment funds for each month or part of a month that the municipality had maintenance responsibility during the initial year.

That to provide an advance payment for the coming year's additional maintenance obligation, a Needs adjustment per mile shall be added to the annual Construction Needs. This Needs adjustment per mile shall produce sufficient apportionment funds so that at least \$7,200 in

apportionment shall be earned for each mile of trunk highway turnback on Municipal State Aid Street System.

That Trunk Highway Turnback adjustments shall terminate at the end of the calendar year during which a construction contract has been awarded that fulfills the Municipal Turnback Account Payment provisions; and the Resurfacing Needs for the awarded project shall be included in the Needs Study for the next apportionment.

TRAFFIC - June 1971

# Traffic Limitation on Non-Existing Streets - Oct. 1965

That non-existing street shall not have their Needs computed on a traffic count of more than 4,999 vehicles per day unless justified to the satisfaction of the Commissioner.

# Traffic Manual - Oct. 1962

That for the 1965 and all future Municipal State Aid Street Needs Studies, the Needs Study procedure shall utilize traffic data developed according to the Traffic Estimating section of the State Aid Manual (section 700). This manual shall be prepared and kept current under the direction of the Screening Board regarding methods of counting traffic and computing average daily traffic. The manner and scope of reporting is detailed in the above mentioned manual.

<u>Traffic Counting</u> - Sept. 1973 (Revised June 1987, 1997, 1999)

That future traffic data for State Aid Needs Studies be developed as follows:

- 1. The municipalities in the metropolitan area cooperate with the State by agreeing to participate in counting traffic every two or four years at the discretion of the city.
- 2. The cities in the outstate area may have their traffic counted and maps prepared by State forces every four years, or may elect to continue the present procedure of taking their own counts and have state forces prepare the maps.
- 3. Any city may count traffic with their own forces every two years at their discretion and expense, unless the municipality has made arrangements with the Mn/DOT district to do the count.