INFORMATIONAL MEMORANDUM

TO: Transportation and Infrastructure Committee
FROM: Hari Ponnekanti, Interim Public Works Director
BY: Cyndy Knighton, Senior Program Manager

Scott Bates, Project Manager

CC: Mayor Ekberg
DATE: October 2, 2020

SUBJECT: Pavement Management Program

2020 Analysis Report

ISSUE

Discussion on the new 2020 Pavement Management Analysis Report including analysis of Tukwila's road system rating and budgetary impacts for the Annual Overlay & Repair Program.

BACKGROUND

Tukwila owns, operates, and maintains over 200 lane miles of paved asphalt roadways. Public Works monitors the condition of each roadway segment for deterioration and distress signs such as cracking, rutting, surface wear, humps, bumps, and sags. KPG was retained to design overlay projects for the 2019 and 2020 construction years. Included in the contract was a task to complete a pavement condition assessment and analysis update for all 80.5 centerline miles (200+ lane miles) of City-owned asphalt roadways. The last time an assessment of the entire City was completed was 2013. The Council adopted funds for updating the Pavement Management System in the 2019-2020 budget.

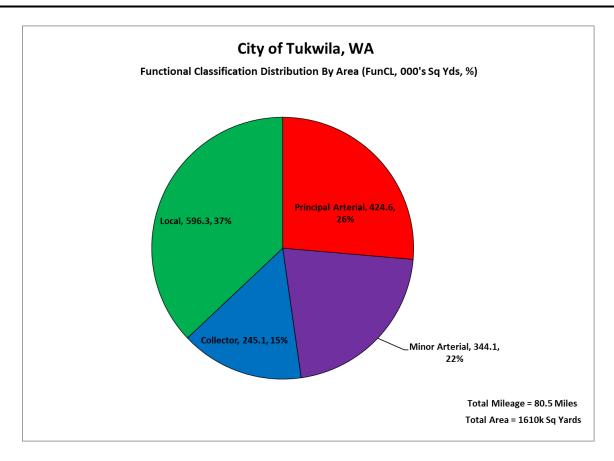
ANALYSIS

In general, the report shows that the City's road network is in good condition with an average Pavement Condition Index (PCI) of 66 and a backlog (roads rated below a PCI of 40) of only 1.3% of the overall network. The average PCI for Tukwila streets is slightly above the national average of 60-65. The national average of backlog is 12%, putting Tukwila well below that point. However, the number of Tukwila streets rated as Excellent is only 6% which is lower than the recommended 15%. This shows Tukwila's ongoing dedication to maintaining healthy road conditions.

The pavement ratings range from excellent (a PCI of 85-100), which would be a new roadway like 42nd Ave S or 53rd Ave S to Good (a PCI of 60-70) such as S 124th St near TCC, to Poor (PCI 25-40) such as Minkler Blvd, east of Andover Park East.

Roads are also rated by functional class from Principal Arterial (i.e. Southcenter Boulevard), Minor Arterial (i.e. Andover Park East), Collector (i.e. Macadam Rd S), and Local (i.e. Fort Dent Way). Functional classification of Tukwila roadways is generally distributed as shown below.

Classification	Percent of Network
Principal	5-10%
Minor	10-20%
Collector	5-10%
Local Access	60-80%



Tukwila Pavement Management Inventory by Functional Class

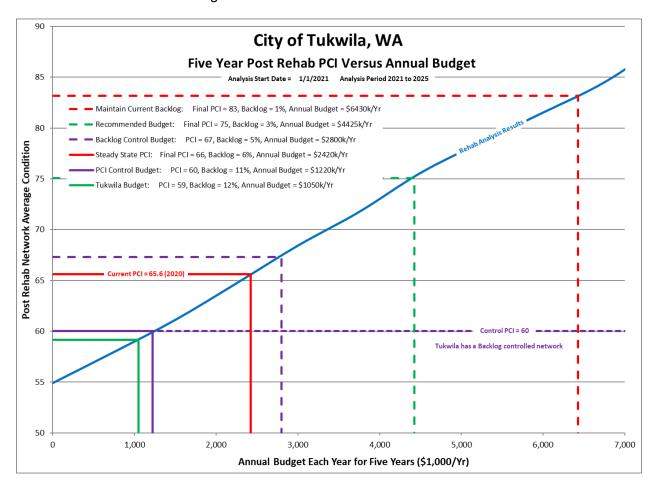
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	PCI	Principal Arterial	Minor Arterial	Collector	Local	National Average
Average		65	67	63	65	60
Excellent	85-100	4%	10%	3%	6%	15%
Very Good	70-85	36%	34%	23%	32%	
Good	60-70	27%	24%	32%	26%	
Fair	50-60	21%	24%	37%	19%	
Marginal	40-50	11%	8%	5%	14%	
Poor	25-40	1%	0%	0%	3%	15%
Very Poor	0-25	0	0	0	0	

Funding of roadway rehabilitation is an exercise in identifying the balance between available funding and the desired level of service. There are no hard rules for what the definitive level of funding should be. There are currently no dedicated revenues for roadway rehabilitation and therefore these have become a General Fund expense in the 104 Fund. Tukwila's investment in the road network is estimated to have a replacement value of more than \$36M.

The Pavement Management Analysis Report makes the following key recommendations:

- Maintain an average PCI at 60 or better with a backlog of less than 15%
- Routinely resurvey all streets every few years to update conditions and prioritize streets
- Annually review priority overlay streets and costs of overlay to keep the pavement management system current
- Update the pavement management system with any new streets
- Continue funding routine maintenance activities outside of the overlay program costs.

The consultant provided different five-year funding scenarios and the possible impact on PCI and backlog based on these recommendations. The funding options ranged from \$1.05 million per year to \$6.5 million per year. A \$1.22 million investment over five years will keep the City near a PCI of 60 and a backlog of 12%.



Five-year Funding Options and impact on PCI and Backlog

Annual Funding (\$M)	PCI	Backlog
\$1.050	59	12%
\$1.220	60	11%
\$2.420	66	1.30%
\$2.800	67	5%
\$4.425	75	3%
\$6.430	83	1%

The 2019-2020 Adopted CIP included \$1.05 million per year for the construction budget specifically in the Annual Overlay and Repair Program. Due to the impacts of COVID-19, the City reduced the overlay construction budget to \$300,000 in 2020. There are still \$800,000 of estimated projects already designed, but not contracted.

In preparing the 2021-2022 Budget, the City looked at the following options.

- Option 1: No funding for overlay for two years and deferring all work for two years.

 This would most likely increase costs in later years and increase the backlog.
- Option 2: Construct the remaining 2020 designed paving projects in 2021 and 2022.

 Approximately \$400k per year for two years. This takes advantage of the current project designs and minimizes the costs for two years.

 This is estimated to decrease our PCI and increase our backlog, which would need to be made up in future years.
- Option 3: Fund the program with \$1.22 M for 2021 and 2022, then increase this amount in future years beginning in 2023.

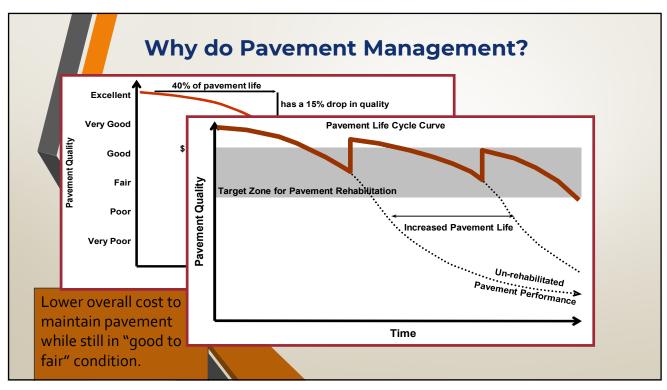
 This scenario would be most likely to meet the recommendations of keeping PCI at 60% and keeping our backlog below 15%.

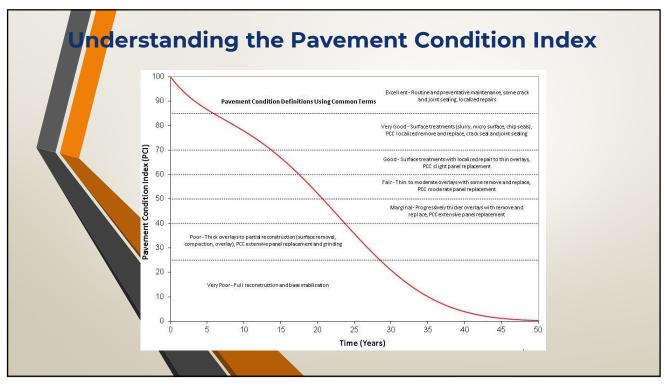
RECOMMENDATION

Accept the Pavement Management Analysis Report recommendations and consider the proposed funding level of \$1.4 million in 2021 and 2022 for the Annual Overlay and Repair Program. Committee option to forward this presentation to the Committee of the Whole.

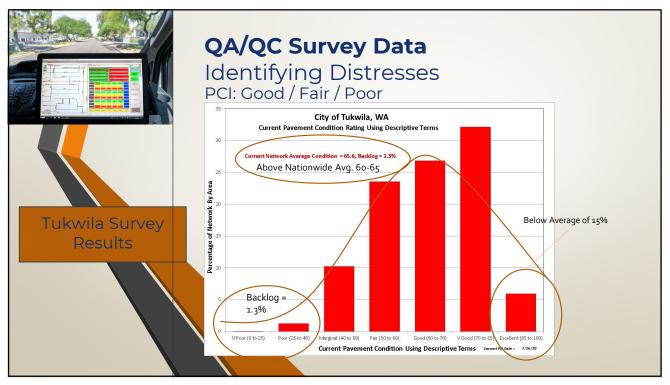
ATTACHMENTS

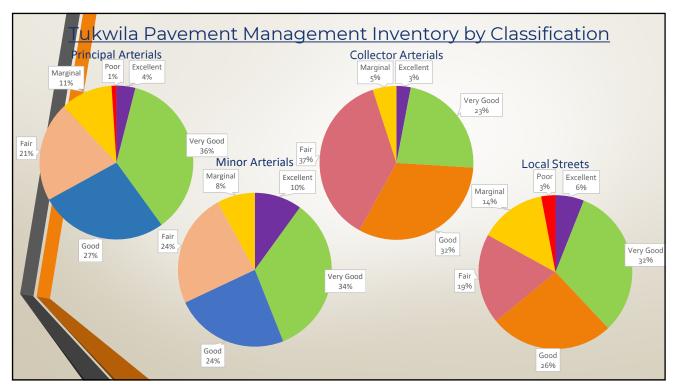
- PowerPoint Presentation
- Select graphics from Report
- Pavement Management Analysis Full Report, August 2020

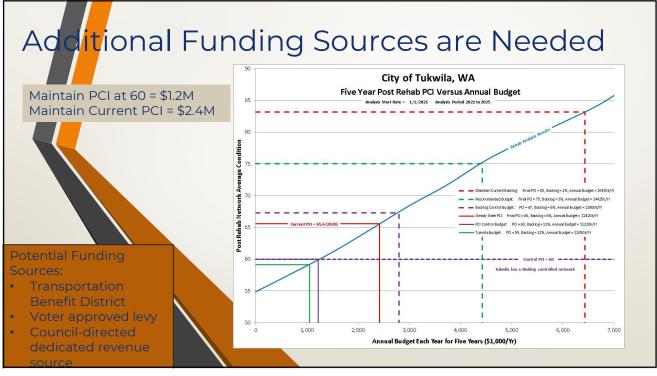


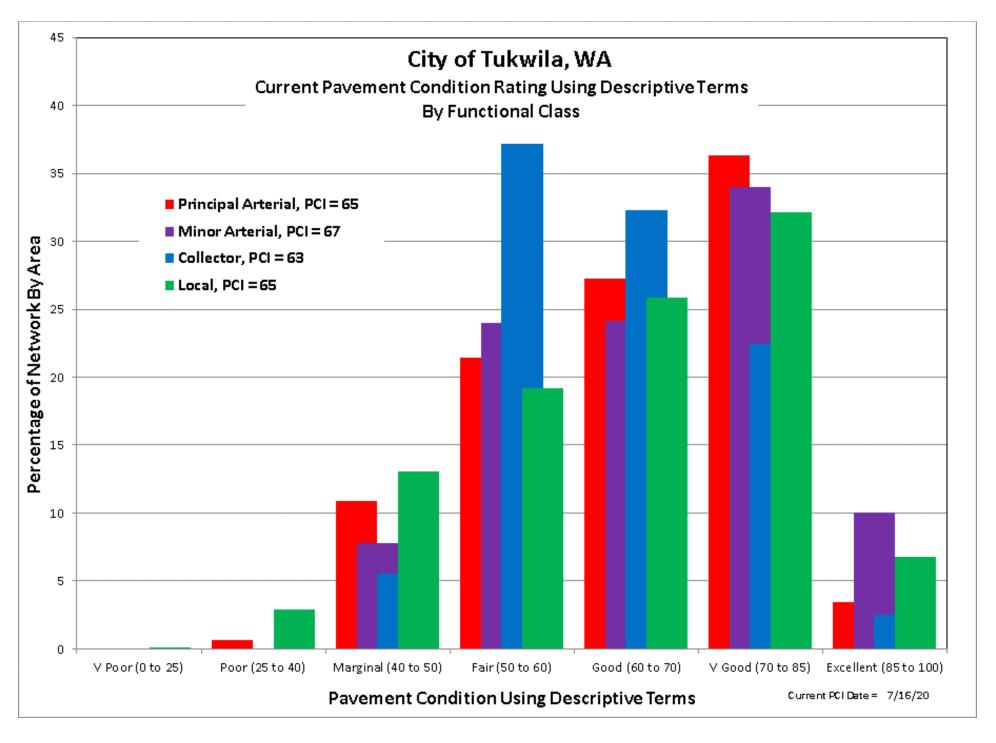


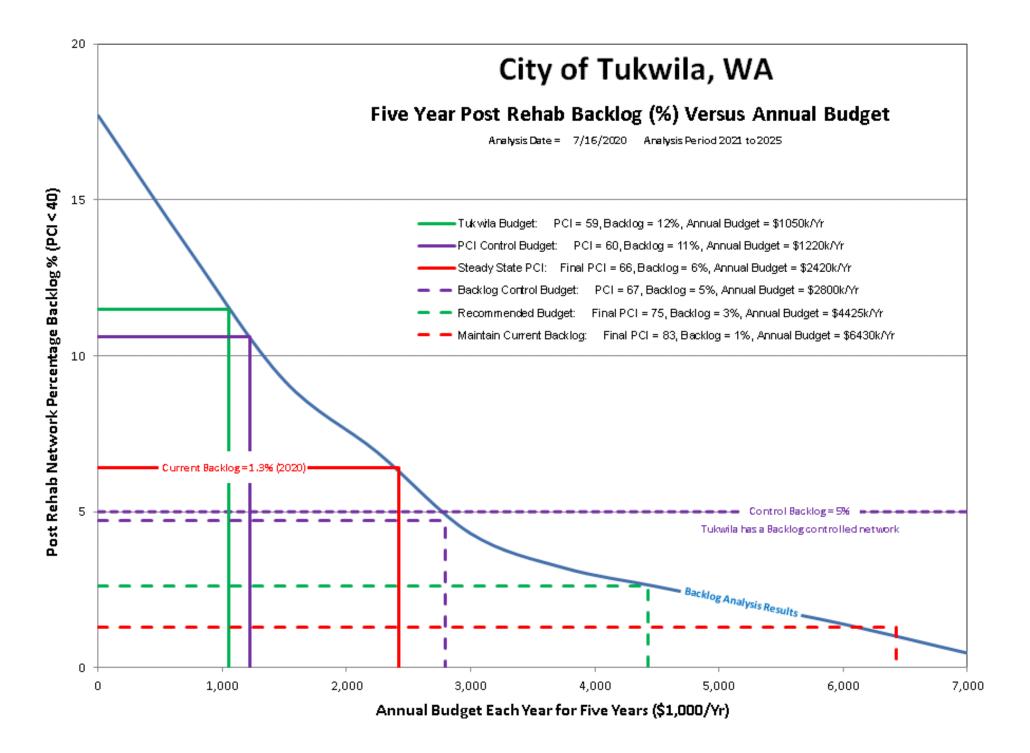


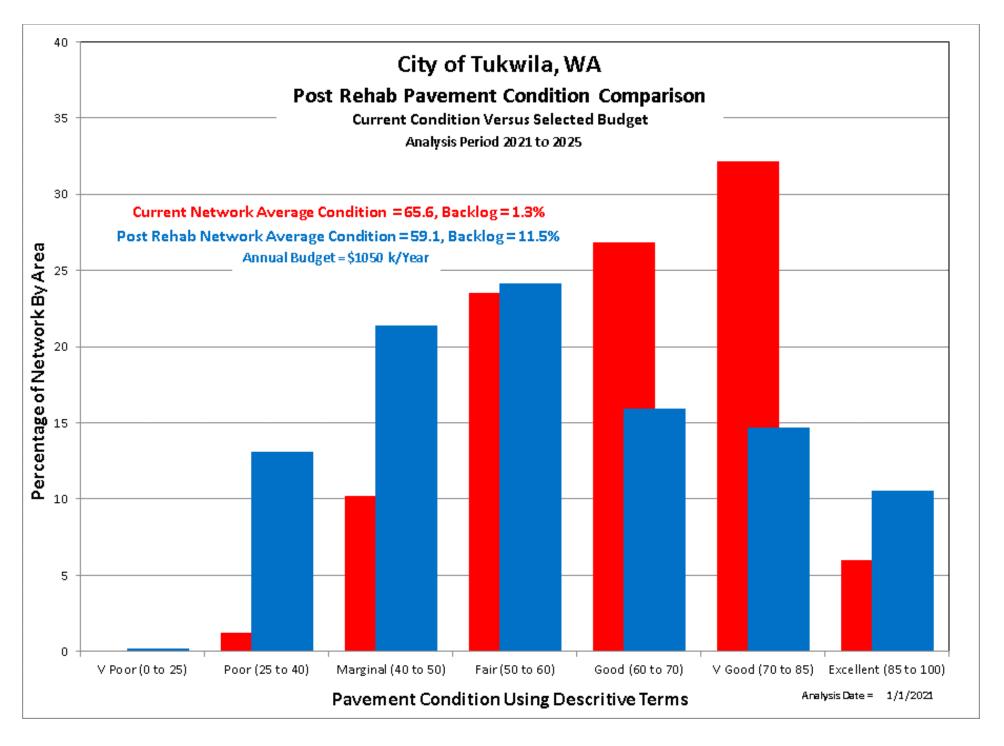












Tukwila, WA

Pavement Management Analysis Report

August, 2020

City of Tukwila, WA Attn.: Bryce Corrigan,KPG Project Manager 3131 Elliott Avenue Suite 400 Tukwila, WA 98121













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APPENDED MAPS Located on Thumb Drive

Functional Classification by Segment
Pavement Condition Index by Segment
Pavement Condition Rating by Segment Using Descriptive Terms
Assembled Projects
Pavement Condition Rating by Project Using Descriptive Terms
\$1.05M/year Rehab Plan Budget
\$1.05M/year Post Rehab PCI Map

or Acronym Definition

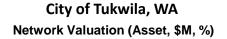
or Acronym	Definition
\$k	Dollars in thousands (\$,000)
\$M	Dollars in millions
%SP	Percent Spreadability - component of deflection analysis
	, , , ,
AC	Asphalt Concrete - asphalt streets, flexible pavements, also known as ACP
ACP	Asphalt Concrete Pavement - asphalt streets, flexible pavements, also known as AC
ART	Arterial roadw ay functional classification
ASTM	American Society of Testing Methods
	•
Avg	Average
BCI	Base Curvature Index - component of deflection analysis
Brk	Break
CAL	Coarse Aggregate Loss
CDV	Corrected Deduct Value - part of the ASTM D6433 PCI calculation
COL	Collector roadway functional classification
	•
Crk	Crack
DefICON	Deflection Condition - structural load analysis based on traffic loading and deflection
DMD	Dynamic Maximum Deflection - temperature corrected deflection
Dvdd Slab	Divided Slab
DynaCON	Dynamic Condition - structural layer analysis
ft or FT	Foot
ft2 or FT2	Square foot
FunCL	Functional Classification
FWD	Falling w eight deflectometer
GCI	Gravel Condition Index
GFP	Good - Fair - Poor
GIS	Geographic Information System
GISID	GIS segment identification number
H&V	Horizontal and Vertical
IRI	International Roughness Index
Jt	Joint
L&T	Longitudinal and Transverse
	3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
LAD	Load associated distress
LOC	Local roadway functional classification - same as RES
LOG	Lip of Gutter
m	Metre or meter
 M	Moderate
m2	square metre or square meter
MART	Major arterial roadway functional classification
Max	Maximum
MaxDV	Maximum Deduct Value
MCOL	Major collector roadw ay functional classification
mi or Mi	Mile
Min	Minimum
MnART	Minor arterial roadway functional classification
MnCOL	Minor collector roadway functional classification
MOD	Moderate
NLAD	Non-load associated distress
OCI	Overall condition index, also known as PCI
Olay	Overlay
PART	Primary arterial roadway functional classification
Pavetype	Pavement Type
PCC	Portland Cement Concrete - concrete streets
PCI	Pavement Condition Index - generic term for OCI
R&R	Remove and replace
RART	Rural arterial roadway functional classification
PWF	Priority Weighting Factor
Recon	Reconstruction
Rehab	Rehabilitation
RES	Local roadway functional classification - same as LOC
RI or RCI	Roughness Index
S	Strong
SART	Secondary arterial roadw ay functional classification
SCI	Surface Curvature Index - componenent of deflection analysis
	· · · · · · · · · · · · · · · · · · ·
SDI	Surface Distress Index
SI	Structural Index
STA	Station or chainage
Surf Trtmt	Surface Treatment
TDV	Total Deduct Value
W	Weak
v v	

1.0 EXECUTIVE SUMMARY & RECOMMENDATIONS

PROJECT SUMMARY

In 2020 IMS Infrastructure Management Services, LLC (IMS) was contracted by the City of Tukwila to conduct a pavement condition assessment and analysis update on approximately 80.5 centerline miles of City maintained asphalt roadways.

IMS mobilized their Laser Road Surface Tester (RST) to conduct an objective assessment using industry standard pavement distress protocols such as those found in ASTM D6433-11. At that time, the City's network average Pavement Condition Index was found to be a 66 and the City's backlog (roads below a PCI of 40) was at only 1%. See section 4 for more information



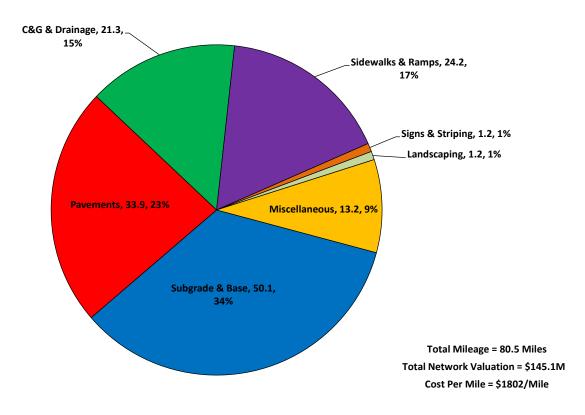


Figure 1- Replacement Value of Roadway Network

As seen in **Figure 1**, Tukwila has just over 80 centerline miles of roadway, encompassing nearly 1.6M square yards of pavement surfacing, which is predominantly asphalt. At an average replacement cost for a typical roadway just over \$1.8M per mile, not including the value of the land, the City has over \$145M invested in its paved roadway network.

SUMMARY METRICS OF HEALTH

Pavement Condition Index (PCI) – The PCI score is a ranking assessment on the overall health of a pavement segment on a scale of 0 to 100. The network average PCI is a good global indicator of a network's overall health. (*Explained in section 4*)

Percent of Excellent Roads – Roads with a condition category of Excellent are those that score between a PCI of 85 to 100.

Backlog –Backlog is the Very Poor and Poor roads (between a PCI of 0 and 40) that represent a portion of the network in need of extensive rehabilitation such as full and partial reconstruction. Using sound pavement management and finance principles, a very healthy network will have a backlog of 10% or less.

Tukwila met two out of three of the metrics for evaluating the quality of its roadway network.

- ✓ Tukwila's network average pavement condition score is slightly above the national average currently seen by IMS of 60 to 65, with the City's average scoring a 65.6.
- The number of streets rated Excellent is below the minimum recommended target of 15% at 6%
- ✓ The backlog amount is below the average value of 12% at 1.3%.

BUDGET SCENARIOS

See section 5 for more information

The current annual budget for Tukwila is \$1.05M per year dedicated to pavement preservation and rehabilitation. This will grow the backlog to 12% while reducing the average PCI to a 59 over 5 years. Please note this number is an annual budget average across all 5 years of the analysis horizon.

The PCI control budget of \$1.22M per year and will maintain the network average PCI at a 60 while increasing the backlog to 11%.

EXECUTIVE SUMMARY CONCLUSION

The Tukwila network has an average PCI of 65.6 and a backlog of 1.3%, with most of the network landing in the Very Good PCI range. With the City's existing budget, the network conditions will degrade into the high 50s PCI range and backlog will continue to grow over time. It is worth noting that the City does have a fair amount of streets approaching the end of their lifespan where overlays can be effective, representing a percentage of the network at the steepest part of their deterioration curves.

2.0 PRINCIPLES OF PAVEMENT MANAGEMENT

2.1 PAVEMENT PRESERVATION

Preservation of existing roads and street systems has become a major activity for all levels of government. Because municipalities must consistently optimize the spending of their budgets, funds that have been designated for pavement must be used as effectively as possible. The best method to obtain the maximum value of available funds is through the use of a pavement management system.

Pavement management is the process of planning, budgeting, designing, evaluating, and rehabilitating a pavement network to provide maximum benefit with available funds.

A pavement management system is a set of tools or methods that assist decision makers in finding optimal strategies for providing and maintaining pavements in a serviceable condition over a given time period. The intent is to identify the optimum level of long-term funding to sustain the network at a predetermined level of service while incorporating local conditions and constraints.

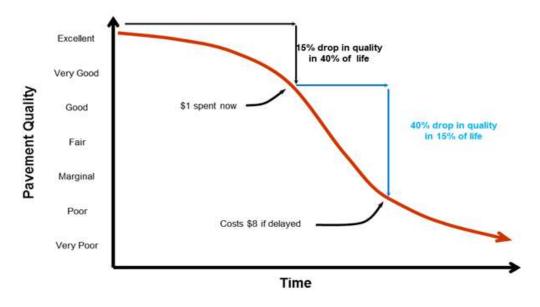


Figure 2 – Pavement Deterioration and Life Cycle Costs

As shown as **Figure 2**, the streets that are repaired while in good condition will cost less over their lifetime than those left to deteriorate to a poor condition. Without an adequate routine pavement maintenance program, streets require more frequent reconstruction, thereby costing millions of extra dollars.

The key to a successful pavement management program is to develop a reasonably accurate performance model of the roadway, and then identify the optimal timing and rehabilitation strategy. The resultant benefit of this exercise is realized by the long term cost savings and increase in pavement quality over time. As illustrated in **Figure 2**, pavements typically deteriorate rapidly once they hit a specific threshold. A \$1 investment after 40% lifespan is much more effective than deferring maintenance until heavier overlays or possibly reconstruction are required just a few years later.

Once implemented, an effective pavement information management system can assist agencies in developing long-term rehabilitation programs and budgets. The key is to develop policies and practices that delay the inevitable total reconstruction for as long as practical yet still remain within the target zone for cost effective rehabilitation. That is, as each roadway approaches the steepest part of its deterioration curve, apply a remedy that extends the pavement life, at a minimum cost, thereby avoiding costly heavy overlays and reconstruction. **Figure 3** illustrates the concept of extending pavement life through the application of timely rehabilitations.

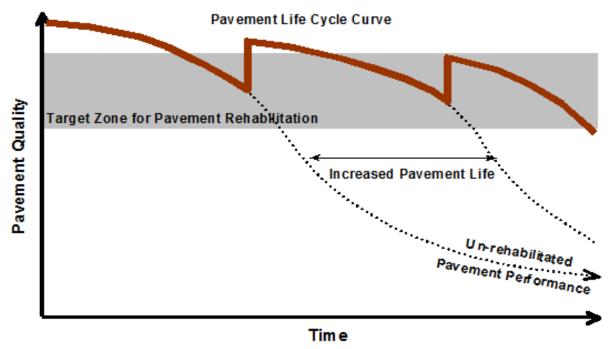


Figure 3 – Pavement Life Cycle Curve

Ideally, the lower limit of the target zone shown in **Figure 3** would have a minimum PCI value in the 60 to 70 range to keep as many streets as possible requiring a thin overlay or less. The upper limit would tend to fall close to the higher end of the Very Good category – that is a pavement condition score approaching 85. Other functions of a pavement management system include assessing the effectiveness of maintenance activities, new technologies, and storing historical data and images.

For Tukwila, a prioritization methodology based on pavement condition, pavement materials, functional class, and strength rating was used to analyze the network condition and develop the proposed 5 year rehabilitation plan.

The analysis methodologies and data collection technologies were based on *ASTM D6433 Standard Practice for Roads and Parking Lots Pavement Condition Index Surveys* (hereinafter ASTM D6433) for assessment of pavement surface condition and the International Roughness Index (IRI) for quantification of pavement roughness on all City streets. These measurements of pavement quality are combined to form an overall 0 to 100 Pavement Condition Index (PCI), with 100 being the best.

2.2 ECONOMIC IMPACTS OF MAINTENANCE & REHABILITATION

The role of the street network as a factor in the City's well-being cannot be overstated. In the simplest of terms, roadways form the economic backbone of a community. They provide the means for goods to be exchanged, commerce to flourish, and commercial enterprises to generate revenue. As such, they are an investment to be maintained.

The overall condition of an agency's infrastructure and transportation network is a key indicator of economic prosperity. Roadway networks, in general, are one of the most important and dynamic sectors in the global economy. They have a strong influence on not only the economic well-being of a community, but a strong impact on quality of life. Well-maintained road networks experience multiple socioeconomic benefits through greater labor market opportunities and decreasing income gap.

As a crucial link between producers and their markets, quality road networks ensure straightforward access to goods and drive global and local economies. Likewise, higher network quality has a strong correlation to improvements in household consumption and income. Roads also act as a key element to social cohesion by acting as a median for integration of bordering regions. This social integration promotes a decreased gap in income along with diversity and a greater sense of community that can play a large role in decreasing rates of poverty.

Conversely, deterioration of roads can have adverse effects on a community and may bring about important and unanticipated welfare effects that the governments should be aware of when cutting transportation budgets. Poor road conditions increase fuel and tire consumption while shortening intervals between vehicle repair and maintenance. In turn, these roads result in delayed or more expensive deliveries for businesses and consumers. Economic effects of poor road networks, such as time consuming and costly rehabilitation, can be reduced if a proactive maintenance approach is successfully implemented. To accomplish this, a pavement assessment and analysis should be completed every few years in an effort update the budget models and rehabilitation plans. As shown below, the IMS Laser Road Surface Tester (featured in **Figure 4**) was mobilized to Tukwila to conduct an objective survey.



Figure 4 - Laser Road Surface Tester (RST)

3.0 THE PAVEMENT MANAGEMENT PROCESS

3.1 FUNCTIONAL CLASS REVIEW

As part of the scope of this assignment, the functional classification designations currently used in the Tukwila pavement management program were adopted for their use in the pavement analysis.

Although there is no uniform standard for classifying pavement into functional classes, The Federal Highway Administration (FHWA), American Public Works Association (APWA) and Institute of Transportation Engineers (ITE) offer some broad guidelines on how to assign classifications that were followed in this study.

The City's functional classification definitions used in the assessment are as follows:

- 1. **Principal Arterial (PART)** all cross City corridors consisting of 2 to 4 or more lanes, generally spaced at 1 mile intervals with daily traffic counts generally exceeding 20,000 vehicles per day. Major cross City corridors with a landscaped median were also assigned to Principal Arterials.
- 2. Minor Arterial (MnART) Continuous and discontinuous cross city and inter-district corridors that are 2 to 4 lanes across and generally have a centerline stripe or a designated bus route. The ADT generally falls in the 10,000 to 20,000 vehicle per day range. They are typically spaced on the ½ or ¼ mile section line and on occasion, may have a short non-landscaped median.
- 3. Collector (COL) Continuous and discontinuous cross City and inter-district corridors that are 2 to 4 lanes across and generally have a centerline stripe or a designated bus route. The ADT generally falls in the 1,000 to 10,000 vehicle per day range. They are typically spaced on the ½ or ¼ mile section line and on occasion, may have a short non-landscaped median. Major collectors are also assigned to streets segments leading to, or adjacent to, a major traffic generator site such as a regional shopping complex. Collectors form the entrance to communities and may have a decorative landscaped median of short duration.
- **4.** Local (LOC) These are the majority of the street segments consisting of all residential roads not defined above or as industrial/commercial.

The paved roadway network consists of 4 functional classes, covering approximately 80.5 miles of pavement. The average pavement condition index (PCI) of the roadway network is a 65.6 and the network's primary pavement type is asphalt. The following table and **Figure 5** summarize the functional classification splits within the system.

City of Tukwila, WA Network Summary by Functional Class

	Pavetype	Network	Principal Arte	Minor Arterial	Collector	Local
Segment (Block) Count	All Streets	772	88	106	118	460
Network Length (ft):	Asphalt All Streets Asphalt	772 424,955 424,955	88 68,822 68,822	106 75,039 75,039	118 65,880 65,880	460 215,214 215,214
Network Length (mi):	All Streets	80.5	13.0	14.2	12.5	40.8
	Asphalt	80.5	13.0	14.2	12.5	40.8
Average Width (ft):	All Streets	34.1	55.5	41.3	33.5	24.9
	Asphalt	34.1	55.5	41.3	33.5	24.9
Network Area (yd2):	All Streets	1,610,369	424,563	344,088	245,128	596,590
	Asphalt	1,610,369	424,563	344,088	245,128	596,590
Current Pavement Condition	All Streets	66	65	67	63	65
Index (CPCI)	Asphalt	66	65	67	63	65
Pavement Condition Index	All Streets	66	66	68	64	65
(Surveyed PCI)	Asphalt	66	66	68	64	65
Current Backlog (%)	All Streets	1	Percentage of Network with a PCI < 40		0	
Current Network Index	All Streets	65	Managable Network Index			
Surface Distress Index (SDI)	All Streets	65	60	66	63	69
7/16/20	Asphalt	65	60	66	63	69
Roughness Index (RI)	All Streets	66	76	70	65	58
7/16/20	Asphalt	66	76	70	65	58

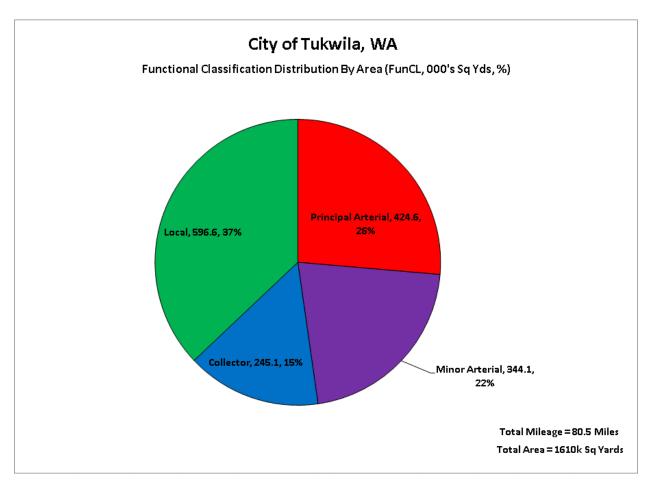


Figure 5 – Functional Class Distribution by Mileage

As discussed later in this report, the functional classifications also play a critical role in the rehabilitation candidate selection process as Arterials are generally given preference over other rehab candidates due to their higher traffic counts and steeper deterioration curves.

The following figure (**Figure 6**) highlights the functional classifications used for the Tukwila roadway network. An electronic version of this map is appended to this report.

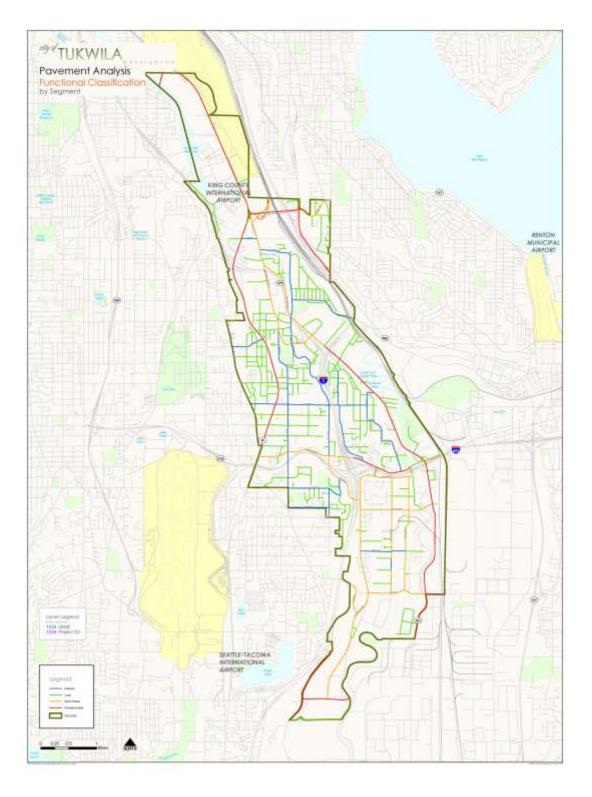


Figure 6 – Tukwila Functional Classification Designation

3.2 ASSEMBLY OF DATA INTO PROJECTS

Tukwila's Geographic Information System (GIS) was used as the basis for segmenting the roadway network on a block-by-block basis. Each segment was assigned a unique identifier referred to as a GISID, establishing a one-to-one relationship between the GIS and the street inventory. The segments form the basic building block of the pavement management system and are where all attribute and condition data are stored.

The centerline segments were aggregated together within the pavement management system to form logical projects that the analysis and rehabilitation program are developed against.

- Arterial projects run from major intersection to major intersection up to 1 mile in length.
- Similar to arterials, collector streets within a neighborhood were aggregated together to form a single project where practical.
- Local streets along a homogenous route were aggregated together along with adjacent side streets to form a small neighborhood based approach.

Segments were joined only when the pavement condition and functional classification were homogeneous in nature such that when joined they have a relatively uniform condition that may be rehabilitated using a single strategy.

The following figure (**Figure 7**) highlights the projects, used for the analysis. An electronic version of this map is appended to this report.

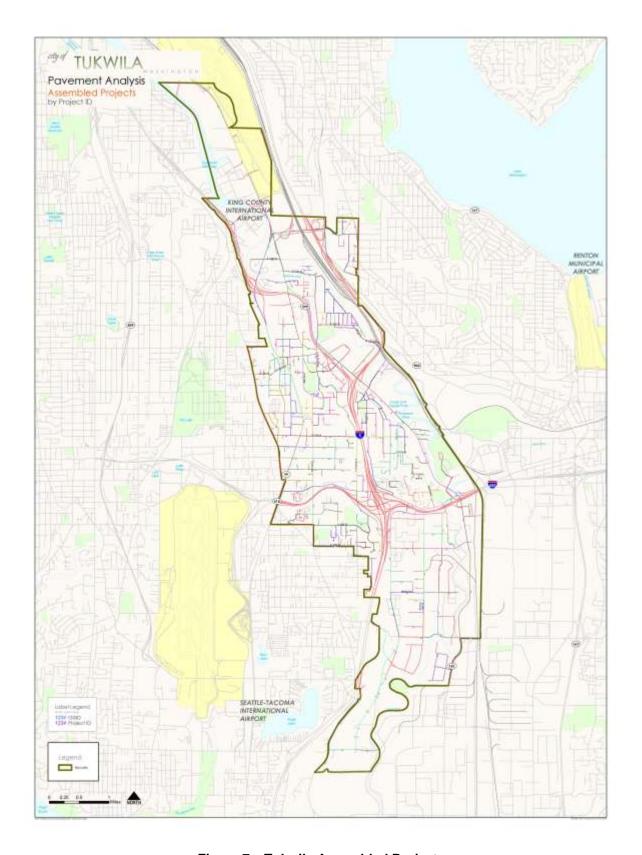


Figure 7 – Tukwila Assembled Projects

3.3 FIELD SURVEY METHODOLOGY

Following a set of predefined assessment protocols matching the pavement management software (ASTM D6433), a specialized piece of survey equipment – referred to as a Laser Road Surface Tester (Laser RST, pictured on page 5) – is used to collect observations on the condition of the pavement surface, as well as collect high definition digital imagery and spatial coordinate information. The Laser RST surveys each local street from end to end in a single pass, while all other roadway classifications are completed in two passes.

Key pavement condition data elements collected by the Laser RST include:

Surface Distress Index – The Laser RST collects surface distress observations based on the extent and severity of distresses encountered along the length of the roadway following ASTM D6433 protocols for asphalt and concrete pavements. The surface distress condition (cracking, potholes, raveling, and the like) is considered by the traveling public to be the most important aspect in assessing the overall pavement condition.

Presented on a 0 to 100 scale, the Surface Distress Index (SDI) is an aggregation of the observed pavement defects. Within the SDI, not all distresses are weighted equally. Certain load associated distresses (caused by traffic loading), such as rutting or alligator cracking on asphalt streets, or divided slab on concrete streets, have a much higher impact on the surface distress index than non-load associated distresses such as raveling or patching. Even at low extents and moderate severity – less than 10% of the total area – load associated distresses can drop the SDI considerably. ASTM D6433 also has algorithms within it to correct for multiple or overlapping distresses within a segment.

For this project, extent and severity observations were collected, processed, and loaded into the pavement management software. Within the software, the following distresses, listed in order from greatest to lowest impact, are presented as a 0 to 10 rating for review and reporting:

- Alligator Cracking Alligator cracking is quantified by the severity of the failure and number of square feet. Even at low extents, this can have a large impact on the condition score as this distress represents a failure of the underlying base materials.
- Wheel Path Rutting Starting at a minimum depth of ¼ inch, wheel path ruts are quantified by their depth and the number of square feet encountered. Like alligator cracking, low densities of rutting can have a large impact on the final condition score.
- Longitudinal, Transverse, Block (Map), and Edge Cracks These are quantified by their length and width. Longitudinal cracks that intertwine are the start of alligator cracking.
- Patching Patching is quantified by the extent and quality of patches. When the majority of a roadway surface is covered by a patch, such as a large utility replacement, the rating of the patch is minimized. All potholes are rated as patches.
- Distortions All uneven pavement surfaces, such as depressions, bumps, sags, swells, heaves, and corrugations, are included as distortions and are quantified by the severity and extent of the affected area.
- Raveling Raveling is the loss of fine aggregate materials on the pavement surface and is measured by the severity and number of square feet affected.

- Bleeding Bleeding is the presence of free asphalt on the roadway surface caused by too much asphalt in the pavement or insufficient voids in the matrix. The result is a pavement surface with low skid resistance and is measured by the amount and severity of the area.
- Similar distresses were collected for concrete streets including divided slab, corner breaks, joint spalling, faulting, polished aggregate, and scaling.

Roughness Index – Roughness is recorded following the industry standard "International Roughness Index" (IRI), a measure of the change in elevation over a distance expressed as a slope and reported in millimeters/meter. The IRI value is converted to a 0 to 100 score and reported as the Roughness Index (RI) as follows:

$$RI = (11 - 3.5 \times ln(IRI)) \times 10$$

In(IRI) is the natural logarithm of IRI.

In common terms, a newer street would generally have a Roughness Index above 85, while one due for an overlay would be in the range 40 to 70. Failed streets typically have roughness values below 40.

Structural Index – The network of streets was not tested for structural adequacy, instead, the relationship between the final pavement condition score and amount of load associated distresses was analyzed and each pavement section assigned a Weak, Moderate or Strong strength rating. The assigned structural index (30, 60 or 80 for weak, moderate and strong respectively) was not used in determining the overall pavement condition score, but simply to classify the pavement strength and aid in selecting appropriate rehabilitation strategies.

Pavement Condition Index (PCI) – Following our field surveys, the condition data is assembled to create a single score representing the overall condition of the pavement. The Pavement Condition Index (PCI) is calculated as follows:

Development of the pavement management plan and budgets were completed using Tukwila - specific rehabilitation strategies, unit rates, priorities, and pavement performance curves. The process was iterative in its attempt to obtain the greatest efficiency and cost benefit.

4.0 TUKWILA SURVEY PAVEMENT CONDITION

4.1 UNDERSTANDING THE PAVEMENT CONDITION INDEX

The following compares the Pavement Condition Index (PCI) to commonly used descriptive terms. Divisions between the terms are not fixed, but are meant to reflect common perceptions of condition.

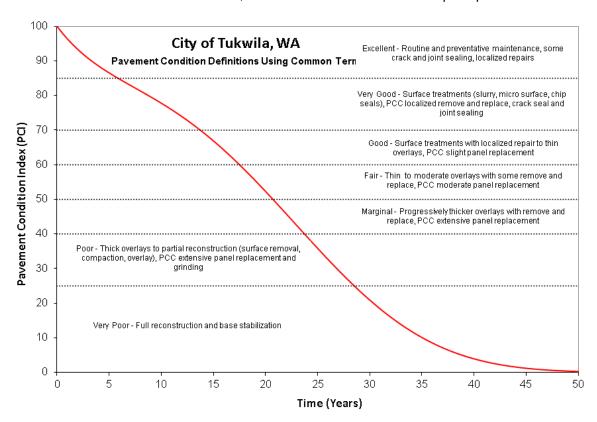


Figure 8 - Understanding the Pavement Condition Index (PCI) Score

The following table details a general description for each of these condition levels with respect to remaining life and typical rehabilitation actions:

PCI Range	Description	Relative Remaining Life	Definition
85 – 100	Excellent	15 to 25 Years	Like new condition – little to no maintenance required when new; routine maintenance such as crack and joint sealing.
70 – 85	Very Good	12 to 20 Years	Routine maintenance such as patching and crack sealing with surface treatments such as seal coats or slurries.
60 – 70	Good	10 to 15 Years	Heavier surface treatments, chip seals and thin overlays. Localized panel replacements for concrete.
40 – 60	Marginal to Fair	7 to 12 Years	Heavy surface-based inlays or overlays with localized repairs. Moderate to extensive panel replacements.
25 – 40	Poor	5 to 10 Years	Sections will require very thick overlays, surface replacement, base reconstruction, and possible subgrade stabilization.
0 – 25	Very Poor	0 to 5 Years	High percentage of full reconstruction.

4.2 TUKWILA NETWORK CONDITION IMAGERY

The images presented below provide a sampling of the Tukwila streets that fall into the various condition categories with a discussion of potential rehabilitation strategies.



Very Poor (PCI = 0 to 25) - Complete Reconstruction

62nd Avenue from 151st Street to South 151st Street (GISID 1004, PCI = 25) – Rated as Very Poor, this street displays spreading base failure as evidenced by the severe alligator cracking and patching. It is also worth noting that the patching along the left hand side of the street has severely deteriorated as evident by the alligator cracking surrounding the patched areas. A mill and overlay on this street would not be suitable as the base has failed and would not meet an extended service life of at least 15 years. This street requires a full reconstruction and should be carefully monitored.

Deferral of reconstruction of streets rated as Very Poor will not cause a substantial decrease in pavement quality as the streets have passed the opportunity for overlay-based strategies. Due to the high cost of reconstruction, Very Poor streets are often deferred until full funding is available in favor of completing more streets that can be rehabilitated at lower costs, resulting in a greater net benefit to the City. This strategy however must be sensitive to citizen complaints forcing the street to be selected earlier. In addition, this type of street can pose a safety hazard for motorists, since severe potholes and distortions may develop. It is important to consistently monitor these streets and check for potholes or other structural deficiencies until the street is eventually rebuilt.

Poor (PCI = 25 to 40) - Last Opportunity for Surface Base Rehabilitation



Boeing Access Road from Martin L King Jr Ramp to Martin L King Way (GISID 1975, PCI = 35) – Rated as Poor, this segment still has some remaining life before it becomes a critical reconstruction need. As evident in the imagery, most of the cracks have been properly sealed. On this street, the base is showing signs of failure in areas exhibiting alligator/fatigue cracking. The severely cracked areas are isolated and do not persist throughout the entire segment length and cross section. These areas should be dug out and structurally patched to attain the maximum life from any potential rehabilitation efforts. If left untreated, within a short period of time, a full reconstruction would be required.

On arterial roadways, Poor streets often require partial to full reconstruction – that is removal of the pavement surface and base down to the subgrade and rebuilding from there. On local roadways, they require removal of the pavement surface through grinding or excavation, base repairs, restoration of the curb line and drainage, and then placement of a new surface.

In general, the service life of Poor streets is such that if deferred for too long, it would require a more costly reconstruction. Streets rated as Poor are typically selected first for rehabilitation as they provide the greatest cost/benefit to the City – that is the greatest increase in life per rehabilitation dollar spent.

Marginal (PCI = 40 to 50) - Progressively Thicker Overlays



Fun Center Way from East Interurban Avenue to South West Grady Way (GISID 1364, PCI = 48) — Rated as marginal with a PCI score at the lower range between Marginal and Poor streets. Marginal streets have distresses that tend to be localized and moderate in nature — that is they do not extend the full length of the segment and can be readily dug out and repaired. This street segment highlights this characteristic as the failed area does not quite extend the full length or width of the roadway and is still serviceable. However, it also highlights the relationship between base and pavement quality. Placing an overlay on this street without repairing the base would not achieve a full 15 year life as the failure would continue to occur over time. Structural patching of the failed areas along localized rehabs would permit a full width grind and inlay on this street segment and return it to full service. The curb lines are straight and drainage is functioning well.

Marginal streets that display high amounts of load associated distresses are selected as a priority for rehabilitation as they provide the greatest cost/benefit to the City. If left untreated, Marginal streets with high amounts of load associated distresses would deteriorate to become partial reconstruction candidates. Marginal streets that are failing due to materials issues or non-load associated failures may become suitable candidates for thick overlays if deferred, without a significant cost increase.

Fair (PCI = 50 to 60) - Thin to Moderate Overlays



Interurban Avenue From Macadam Road to Gateway Drive (GISID 1998, PCI = 53) – Rated in the Fair category, these streets require thin to moderate overlays for asphalt when they enter their need year (generally within 2-3 points of the lower PCI in the defined range). Several distresses are present, but tend to be more localized and moderate in severity, and non-load related (primarily longitudinal and transverse cracking and raveling). On this segment of road, the signs of deterioration are evident in the right hand travel lane of the pavement and are moderate in severity indicating the base has not yet failed along the entire length of roadway. The curb line is straight through the sidewalk could benefit from some preventative maintenance to prevent damage from weed intrusion.

Asphalt streets rated as Fair tend to receive a lower priority when developing a rehabilitation program. If deferred, the rehabilitation cost would only increase by about \$3 to \$5/yd2, again depending on the functional classification, in about 5 to 10 years. This delay represents a 20% difference over the time stated. Thus, the cost of deferral is low when compared to deferring a thick overlay to a reconstruction with a two to threefold increase in cost.

Good (PCI = 60 to 70) - Surface Treatments to Thin Overlays



Macadam Road from 149th Lane to 150th Street (GISID 2064, PCI = 62) – Rated as Good with the primary cause of deterioration the transverse and longitudinal cracking, as well as patching. It also displays small amounts of load associated distresses that can easily be removed to restore the visual appearance of the roadway. The existing cracks should be sealed and the pavement surface restored, with a heavier surface treatment such as microsurfacing or double slurry to fully waterproof the pavement and cover the crack sealant. The occasional dig out and replacement may be required to correct localized deficiencies. Alternatively, depending on the extent of the distressed areas, base strength and drainage, a thin overlay may be applied.

Asphalt streets rated as Good are ideal candidates for thinner surface-based rehabilitations and local repairs. Depending on the amount of localized failures, a thin edge mill and overlay, or possibly a surface treatment, would be a suitable rehabilitation strategy for streets rated as Good. Streets that fall in the high



60 - low 70 PCI range provide the greatest opportunity for extending pavement life at the lowest possible cost, thus applying the principles of the perpetual life cycle approach to pavement maintenance. The adjacent photo is a great example of a street segment (not a Tukwila Road) that displayed low load associated distresses and thus, high structural characteristics, and once the distressed areas were replaced, a slurry seal was applied. The patching accounted for less than 5 to 10% of the total area and resulted in a good looking, watertight final surface at a much lower cost than an overlay with less disruption to the neighborhood and curb line. The patches were paver laid and roller compacted.

Very Good (PCI = 70 to 85) – Surface Treatments and Localized Rehabilitation



West Valley Highway from Strander Boulevard to 180th Street (GISID 1293, PCI = 73) — Rated as Very Good, this road displays minor amounts of transverse cracking and patching. The surface is non-weathered, and the base is still strong. This street is an example of a candidate for preventative maintenance and light weight surface treatments to extend the life of a roadway.

Asphalt streets rated as Very Good generally need lightweight surface-based treatments such as surface seals, slurries, chip seals or microsurfacing. Routine maintenance such as crack sealing and localized repairs often precede surface treatments. The concept is to keep the cracks as waterproof as possible through crack sealing and the application of a surface treatment. By keeping water out of the base layers, the pavement life is extended without the need for thicker rehabilitations such as overlays or reconstruction. Surface treatments also tend to increase surface friction and visual appearance of the pavement surface but do not add structure or increase smoothness.

Surface treatments may include:

- Double or single application of slurry seals (slurries are a sand and asphalt cement mix).
- Microsurfacing asphalt cement and up to 3/8 sand aggregate.
- Chip seals and cape seals (Chip seal followed by a slurry).

Additional cost benefits of early intervention include:

- Less use of non-renewable resources through thinner rehabilitation strategies.
- Less intrusive rehabilitation and easier to maintain access during construction.
- Easier to maintain existing drainage patterns.

Excellent (PCI = 85 to 100)



Southcenter Parkway (GISID 1343, PCI = 93) – Rated as Excellent, displaying little to no surface distresses. The ride is smooth and the surface is non-weathered and the base is strong. In a couple of years, this street segment would be an ideal candidate for routine maintenance activities such as crack sealant rehabilitation.

In terms of pavement management efficiency, a program based on worst-first, that is starting at the lowest rated street and working up towards the highest, does not achieve optimal expenditure of money.

Generally, under this scenario, agencies can not sufficiently fund pavement rehabilitation and lose ground despite injecting large amounts of capital into the network.

The preferred basis of rehabilitation candidate selection is to examine the cost of deferral of a street, against increased life expectancy.

4.3 EVALUATING THE PAVEMENT QUALITY AND BACKLOG

The concept of the Pavement Condition Index (PCI) score, backlog percentage and number of streets rated as Excellent must be fully understood in order to understand and develop an effective pavement management program. These three metrics should fall into certain ranges in order to measure the quality and long term viability of a network.

The PCI score indicates the overall pavement condition and represents the amount of equity in the system; it is the value most commonly considered when gauging the overall quality of a roadway network. It may also be used to define a desired level of service: that is, an agency may wish to develop a pavement management program such that in five years the overall network score meets a set minimum value. Obviously, the higher the PCI score the better off the overall network condition is. Agencies with an average PCI score above 80 (when considering surface distress, roughness and possibly strength) are rare and found only in a few select communities. Less than 1 in 20 communities surveyed by IMS have that high of a condition average. Averages between 65 and 80 are indicative of either newer networks, or ones that have an ongoing pavement rehabilitation program and tend to be fully funded. Scores between 60 and 65 are common and represent a reasonable average providing a satisfactory balance between levels of service and funding, and when taken with the other two metrics may represent a well-managed and funded network. A minimum score of 60 means that overall the network falls at the lower end of the range where light weight surface treatments and thin overlays are the standard rehabilitation practice. Below a 60 means an agency has to rely on more costly rehabilitations and reconstructions to address condition issues.

At the upper end of the condition scale, a minimum of 15% of the network should be rated as Excellent. Generally, at or above 15%, means that a noticeable percentage of the roadway network is in like new condition, requiring only routine maintenance. While higher percentages of streets rated as Excellent are certainly desirable, the annual cost to maintain rates at higher multiples is often cost prohibitive. Below 15% means the agency is struggling to effectively rehabilitate their network on an annual basis. The 15% marker represents a cost effective balance between annual investment and satisfactory level of service.

Backlog roadways are those that have dropped sufficiently in quality to the point where surface based rehabilitation efforts would no longer prove to be cost effective. These roadways are rated Poor or Very Poor and will require either partial or total reconstruction. Backlog is expressed as the percentage of roads requiring reconstruction as compared to the network totals.

It is the backlog, however, that defines the amount of legacy work an agency is facing and is willing to accept in the future. It is the combination of the three metrics that presents the true picture of the condition of a roadway network, and conversely defines improvement goals.

Generally, a backlog of 10% to 15% of the overall network is considered manageable from a funding point of view with 12% being a realistic target. Fifteen percent (15%) is used as a control limit to indicate the maximum amount of backlog that can be readily managed. Backlog rates below 10%, again are certainly desirable, but financially unachievable for a large percentage of agencies. Backlogs approaching 20% or more tend to become unmanageable, unless aggressively checked through larger rehabilitation programs, and will grow at an alarming rate. At 20% a tipping point has been met and the backlog tends to increase faster than an agency's ability to reconstruct their streets.

4.4 TUKWILA NETWORK CONDITION DISTRIBUTION

Figure 9 presented below shows the distribution of pavement condition for the roadway network in Tukwila. The average PCI for the network is 65.6. While direct comparisons to other agencies are difficult due to variances in ratings systems, Tukwila is slightly above average when compared to other agencies recently surveyed by IMS, which typically fall in the 60 to 65 range.

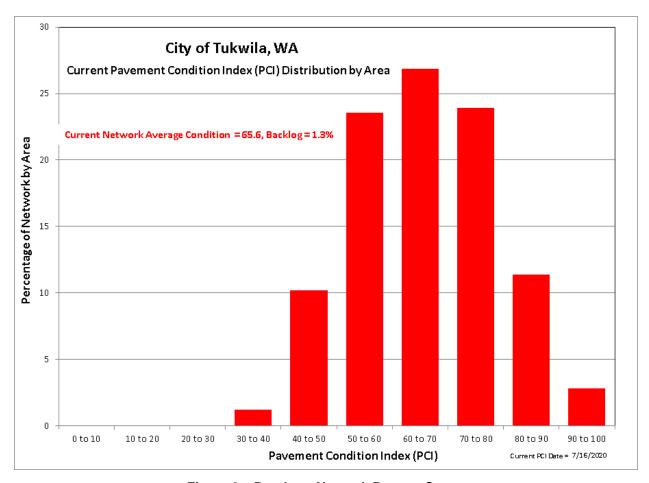


Figure 9 - Roadway Network Present Status

- This is reflective of a moderately aged network that has had some roadway renewal effort.
- Simultaneously, the City has a moderate sample of streets that are approaching the end of their life where surface based rehabilitations, such as overlays, can be effective.
- Traditionally we expect to see a bell curve that is skewed to the right and centered between a PCI of 60 and 70. The Tukwila network curve illustrated above follows this norm and shows the positive impact of recent roadway renewal effort over the last several years.

The following graph (Figure 10) plots the same pavement condition information, but instead of using the actual Pavement Condition Index (PCI) value, descriptive terms are used to classify the roadways.

- Six percent (6%) of the network can be considered in Excellent condition and require only routine maintenance.
- Thirty-two percent (32%) of the network falls into the Very Good classification. These are roads
 that benefit most from preventative maintenance techniques such as microsurfacing, slurry seals
 and localized panel repairs.
- Thirty-two percent (32%) of the streets are rated as Good and are candidates for lighter surfacebased rehabilitations such as thin overlays or slight panel replacements.
- Twenty-four percent (34%) of network can be considered Fair to Marginal condition representing candidates for progressively thicker overlay-based rehabilitation or panel replacements. If left untreated, they will decline rapidly into reconstruction candidates.
- The remaining one percent (1%) of the network is rated as Poor or Very Poor, meaning these
 roadways have failed or are past their optimal due point for overlay or surface-based
 rehabilitation and may require progressively heavier or thicker forms of rehabilitation (such as
 extensive panel replacement, surface reconstruction or deep patch and paving) or total
 reconstruction.

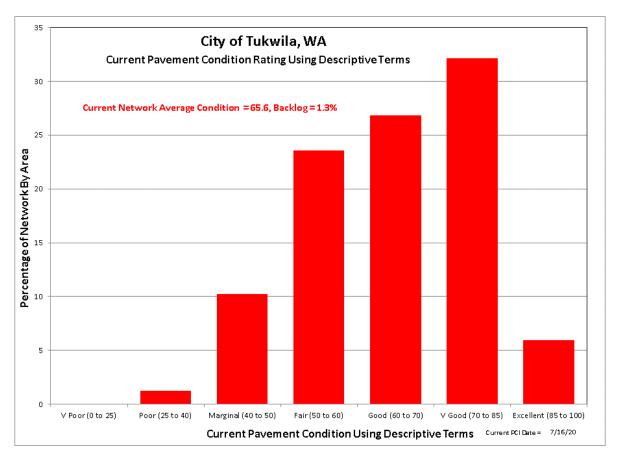


Figure 10 - Roadway Network Present Status Using Descriptive Terms

Figures 11 and 12 present the surveyed condition of the streets using PCI and Good-Fair-Poor descriptive terms, respectively. Electronic versions of these maps are appended to this report.

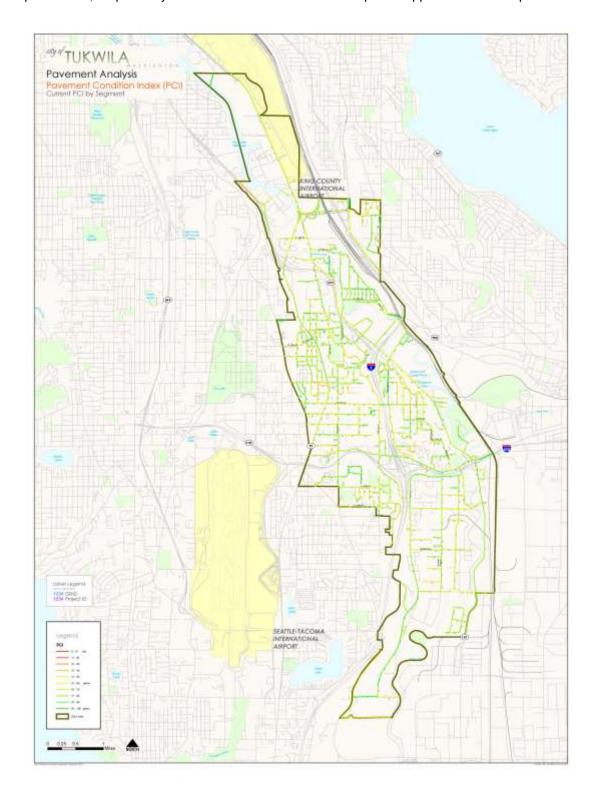


Figure 11 – Tukwila by Segment Using Pavement Condition Index (PCI)

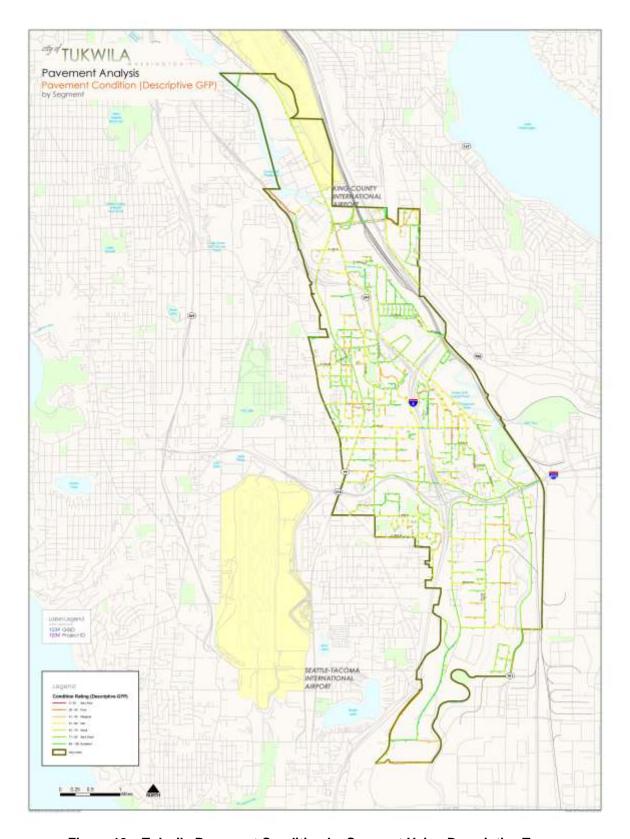


Figure 12 – Tukwila Pavement Condition by Segment Using Descriptive Terms

4.5 CONDITION BY FUNCTIONAL CLASSIFICATION

Figure 13 highlights the pavement condition distribution for the arterial, collector, and local streets. Keep in mind that arterial roadways, the streets that have the majority of traffic use and link various parts of the city together, may be considered the thoroughfares of the city and during the budget development process, should receive the highest priority when selecting rehabilitation candidates.

- The principal arterial network has an average PCI of 65
- The minor arterial network has an average PCI of 67
- The collector network has an average PCI of 63
- The local network has an average PCI of 65

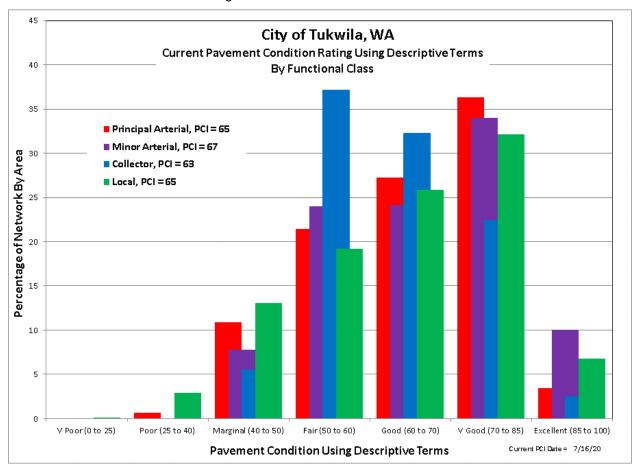


Figure 13 - Condition Rating by Functional Classification

4.6 STRUCTURAL AND LOAD ASSOCIATED DISTRESS ANALYSIS

Structural testing and analysis was not performed for the City of Tukwila. Instead, analysis of the cause of pavement failure for these street segments was completed by examining the types of distresses that have caused the PCI score to drop.

Surface distresses may be categorized into two classifications – load associated distresses (LADD) and non-load associated distresses (NLAD). Load associated distresses are those that are directly related to traffic loading and structural capacity. Non-load associated distresses are those that result from materials or environmental issues including shrinkage (transverse) cracking, bleeding and raveling. Generally, load associated distresses affect the overall condition score more than non-load associated distresses – as is the case in Tukwila. For asphalt streets, roadways were classified as Weak, Moderate, or Strong.

The purpose of the structural analysis is twofold:

- The structural analysis provides input into which performance curve each segment is to use –
 performance curves are used to predict pavement deterioration over time.
- Structural analysis assists in rehabilitation selection by constraining inadequate pavement sections from receiving too light of a rehabilitation and conversely, identifying segments suitable for lighter weight treatment.

Figure 14 plots the relationship of the load associated distresses (shown in red) against pavement condition. As can be seen from the plot, at higher PCI scores, most pavements fall into the moderate strength classification as the distresses have not yet begun to manifest themselves into severe failures. As the PCI score drops, the load associated distresses typically affect the PCI score to a higher degree with more segments being classified as weak. Conversely, segments that have a declining PCI score and low LADD, are classified as strong as they display few load associated failures. High PCI score (above 60) rehab selections should focus on pavement preservation activities such as surface treatments or thin overlays, possibly with some localized pavement repairs and crack sealing.

The sum of the Load-Associated Distress deducts (LADD) is also used to qualify the appropriate rehabilitation strategy selection in addition to the overall pavement condition score. For example, a street that has a good PCI score (that is between 60 and 70) and is displaying relatively low load associated distress deducts would be a suitable candidate for a surface treatment in place of a thin overlay in that the PCI score is more influenced by materials issues such as transverse cracking or raveling.

Overall, the low amounts of streets exhibiting weak performance can generally be attributed to poor subgrade conditions, insufficient pavement thickness and increased traffic loading – in particular heavy, side-loading garbage and recycling trucks (an unintended consequence of green initiatives) along with school buses and delivery vehicles. The average weight of these vehicles coupled with tire pressure and configuration today compared to those from a few decades ago has increased drastically.

- The upper black diagonal line identifies segments that have a high ratio of load associated distresses compared to their PCI score. These segments are classified as weak.
- The lower black diagonal line identifies segments that have a low ratio of load associated distresses compared to their PCI score and are classified as strong.
- Segments that fall between the two lines are assigned a moderate pavement strength.

The sum of the Load-Associated Distress deducts (LADD) is also used to qualify the appropriate rehabilitation strategy selection in addition to the overall pavement condition score.

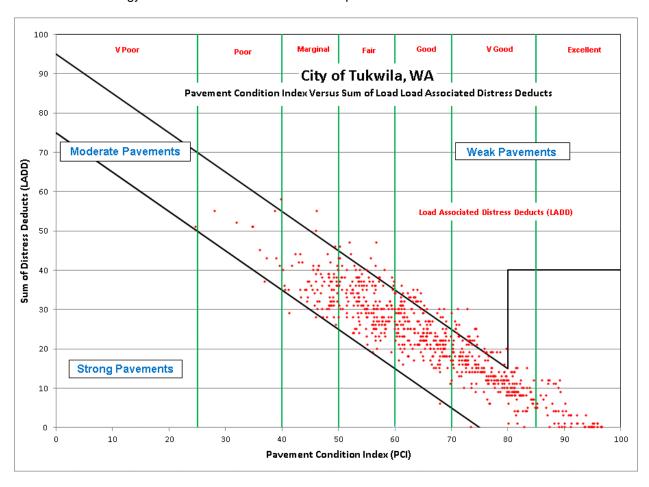


Figure 14 - Pavement Condition Index versus Sum of Distress Deducts

5.0 REHABILITATION PLAN AND BUDGET DEVELOPMENT

5.1 KEY ANALYSIS SET POINTS AND PAVEMENT PERFORMANCE CURVES

Pavement management analysis requires user inputs in order to complete its condition forecasting and prioritization. A series of operating parameters were developed in order to create an efficient program that is tailored to the City's needs.

Some of the highlights include:

- The pavement performance curves that are used to predict future pavement condition. Asphalt streets are classified as weak, moderate, or strong, and then assigned the appropriate pavement performance curve based on their functional classification to use in the analysis. The concept of load associated distresses does not apply to concrete streets.
- The shape of performance curves reflect the concept of deferred maintenance and salvage life. Instead of dropping to an absolute PCI value of 0 after 40 years of service, the curves are designed to become asymptotic to the age axis and have a whole life of approximately 50 to 60 years depending on pavement type. This indicates the notion that once a street deteriorates past a specific threshold about a PCI of 20, age becomes less important in rehab selection.
- Priority ranking analysis uses prioritization for rehabilitation candidate selection. It is designed to
 capture as many segments in their need year based on the incremental cost of deferral. The
 higher the functional classification of a street, the higher priority a segment is given.

Rehabilitation Strategies and Unit Rates

The rehab strategies and unit rates used in the pavement analysis can be found on the following page. Some important parameters include:

- Rehab Code and Activity The assigned identifier and name to each rehabilitation strategy. The term "RR" refers to "Remove and Replace", otherwise known as Structural Patching. When this term is present, additional funds have been assigned to the strategy to allow for an increased amount of preparation work and patching. The relative terms of thin, moderate and thick are used to describe the overlay thickness. This is to facilitate consistency in the naming convention, but does not imply the same material thickness has to be used for each functional classification.
 - The recommended rehab activities for any given PCI range may vary due to pavement strength and functional classification. For example, an arterial between a PCI of 50 to 60 may receive a thin to moderate overlay, while a local access road may only receive a chip seal or thin overlay.
- Unit Rates The rehab costs are presented on a per square yard basis for each pavement type, functional class, and rehabilitation activity combination. The rates were developed using typical national averages for similar activities and adjusted for Tukwila's location and unique conditions. An additional burden to all costs was also added to cover City overheads, design and engineering and inspection. Costs for peripheral concrete rehab (valley gutters, inlets, approaches, etc.) have not been included in the analysis.

The unit rates are reflected in the network value, final budgets, and average cost/mile for doing work in Tukwila.

City of Tul Rehabilita		, WA Strategies and Unit Rates	Reha	ab Gro	un 1					
Pavetype	Rehab Code	Rehab Activity	Min PCI	Critical PCI (Need Year)	Max PCI	Base Unit Rate (\$/yd2)	Principal Arterial Unit Rate (\$lyd2)	Minor Arterial Unit Rate (\$/yd2)	Collector Unit Rate (\$/yd2)	Local Unit Rate (\$/yd2)
Asphalt	10	Slurry Seal / Seal Coat	80	82	85	4.50	5.00	4.80	4.70	4.60
Asphalt	20	MicroSurface / Chip Seal	70	73	80	6.70	7.25	7.25	7.00	6.75
Asphalt	23	MicroSurface / Chip Seal + Strctrl Ptch	70	73	80		8.25	8.00	7.75	7.75
Asphalt	26	MicroSurface / Chip Seal + Strctrl Ptch	60	63	70		9.00	8.75	8.50	8.50
Asphalt	30	Edge Mill + Thin Overlay (1.5 - 2.0)	60	63	70	22.25	24.50	24.00	23.25	22.75
Asphalt	33	Edge Mill + Thin Overlay (1.5 - 2.0) + Strctrl Ptch	60	63	70		26.50	25.75	25.25	24.50
Asphalt	36	Edge Mill + Thin Overlay (1.5 - 2.0) + Strctrl Ptch	50	54	60		28.25	27.75	27.00	26.50
Asphalt	40	EM/FV/M + Moderate Overlay (2.0 - 3.0)	50	54	60	29.75	34.50	33.00	32.00	31.00
Asphalt	43	EM/FVVM + Moderate Overlay (2.0 - 3.0) + Strctrl Ptch	50	54	60		36.50	35.00	34.00	32.50
Asphalt	46	EM/FVVM + Moderate Overlay (2.0 - 3.0) + Strctrl Ptch	40	44	50		38.50	37.00	36.00	34.50
Asphalt	50	FVVM + Thick Overlay (> 2.0 - 3.0)	40	44	50	37.50	45.50	43.50	41.50	39.50
Asphalt	53	FWM + Thick Overlay (> 2.0 - 3.0) + Strctrl Ptch	40	44	50		48.00	45.50	43.50	41.50
Asphalt	56	FWM + Thick Overlay (> 2.0 - 3.0) + Strctrl Ptch	25	30	40		50.00	48.00	46.00	43.50
Asphalt	60	Surf Recon + Base Rehab / FVVM + Strctrl Ptch + Olay	25	30	40	62.50	75.50	72.00	69.00	65.50
Composite	65	Surf Recon + PCC to Base/FV/M + Strctrl Ptch + Olay	25	30	40	66.50	80.50	77.00	73.50	70.00
Asphalt	70	ACP Full Depth Reconstruction	0	15	25	93.00	102.50	100.00	97.50	95.50
Composite	75	Full Depth Recon + PCC to Base	0	15	25	101.00	111.00	109.00	106.00	104.00
Concrete	510	PCC Jnt Rehab & Crk Seal	80	82	100	8.75	9.75	9.50	9.25	9.00
Concrete	520	PCC Localized Rehab	70	73	80	18.75	21.75	21.00	20.25	19.50
Concrete	523	PCC Localized Rehab + Grind	70	73	80		21.75	21.00	20.25	19.50
Concrete	530	PCC Slight Pnl Rplcmnt (<10%)	60	63	70	38.50	46.50	44.50	42.50	40.50
Concrete	533	PCC Slight Pnl Rplcmnt (<10%) + Grind	60	63	70		46.50	44.50	42.50	40.50
Concrete	540	PCC Moderate Pnl Rplcmnt (< 20%)	50	54	60	58.50	74.00	70.00	66.00	62.00
Concrete	543	PCC Moderate Pnl Rplcmnt (< 20%) + Grind	50	54	60		74.00	70.00	66.00	62.00
Concrete	550	PCC Extensive Pnl Rplcmnt (<33%)	40	44	50	81.00	108.00	100.50	94.00	87.00
Concrete	553	PCC Extensive Pnl Rplcmnt (<33%) + Grind	40	44	50		108.00	100.50	94.00	87.00
Concrete	560	PCC Partial Reconstruction	25	30	40	109.00		131.00	123.00	116.00
Concrete	570	PCC Full Depth Reconstruction	0	15	25	164.00	218.00	204.00	190.00	177.00

Figure 15 – Rehab rates by Functional Class

Min PCI, Critical PCI, and Max PCI - These define the Pavement Condition Index (PCI) range applicable to the rehab selection. The Critical PCI defines when a segment is in its need year and is deemed to be critical, otherwise if deferred, the street declines in PCI past the point which the rehabilitation is no longer appropriate. Generally the Critical PCI falls 2 to 4 points higher than the minimum PCI applicable for each rehab activity.

^{*}Unit rates vary slightly between functional classes

Figure 16 graphically presents the application of pavement rehabilitations for asphalt streets by PCI. The Rehab numbers are simply placeholders that separate each rehabilitation project identified on the chart above. For example, Rehab 56 is a Thick Overlay + Structural Patch.

Unit rates increase slightly between functional classes to reflect increase costs in pavement thickness, traffic control, and striping.

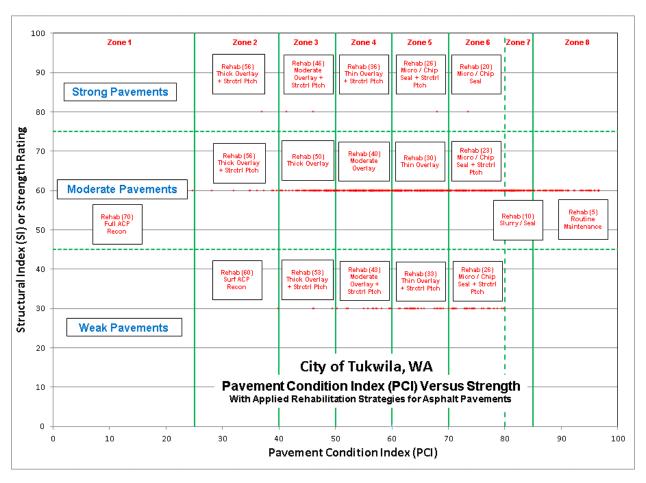


Figure 16 - Asphalt (ACP) Rehabilitation Strategies

Selection and Prioritization of Rehab Candidates

The City's pavement management program incorporates a series of user defined values to prioritize and select the street segments for rehabilitation. The rehab selection order is not worst first, but rather designed to capture as many segments in their need year based on the incremental cost of rehab deferral. A Street is considered to be in its need year when it has reached its maximum service life and any further deferral would require a heavier and more costly rehabilitation. The rehab program has been designed to maximize the increased service life for each rehabilitation dollar spent on a segment.

Other factors included in the prioritization process focus on:

 Need Year – streets are only selected when they have expended their service life and are optimal for rehab selection.

- Functional Classification generally priority is given to higher functional classifications as they provide greater benefits to a larger group of users
- Pavement Strength weaker streets are prioritized higher than stronger ones as they deteriorate faster.
- Area a very slight increase in priority is given to larger projects over smaller ones.

The net result is a program that favors thick overlays, followed by partial reconstruction projects then full reconstruction projects (more for safety reasons than cost-benefit). These are then followed by surface treatments and lastly by moderate to thin overlays.

The programmed deterioration curves illustrated in **Figure 17** are designed to integrate the pavement condition distribution performance curves for the network, with the applied rehabilitation strategies and their expected life cycle. Different color performance curves are meant to represent the full suite of curves assigned to segments based upon their functional class, pavement type, and strength.

It is important to recognize that even though all streets fall into specific rating categories and their respective rehabilitation strategies, it is not until a street falls to within a few points of the lower end of the range that it will become a critical need selected for rehabilitation.

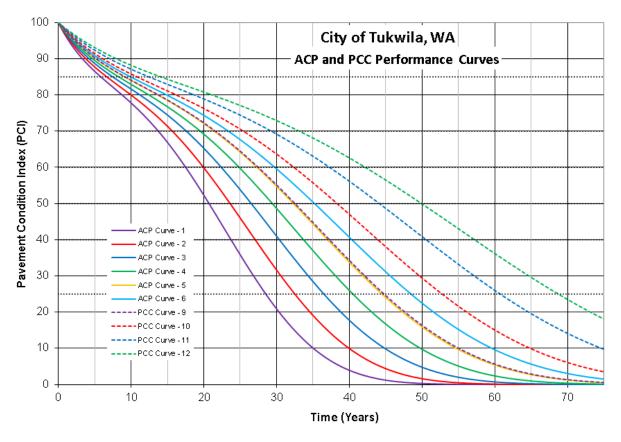


Figure 17 - Performance Curves

5.2 FIX ALL AND ANNUAL ESTIMATES

Three different approaches may be taken to identify and confirm the amount of funds the City needs to set aside each year to maintain the roadway network at its current condition. All three are completed externally to the pavement management system and are simply used to validate the final results.

Option 1 – Estimated Life Cycle Cost Based on Network Value

An approximate value for the annual street maintenance budget may be quickly determined by taking the total value of Tukwila's roadway network, estimated at \$145M, and dividing that by the ultimate life of a roadway – approximated to be 50 years. By this method, the annual budget is estimated at \$2,900,000.

Please note, the 50 year lifespan of the roadway is the theoretical life of the roadway surface from construction, until the point at which there not usable surface remaining, it is not simply the lifespan of the pavement surface until the next overlay.

Rehabilitation Estimate Based on Network Valuation

Pavement Type	Network Valuation (\$)	Ultimate Life Span (yrs)	Life Cycle Cost (\$/Yr)
Asphalt Network	145,009,000	50	2,900,000
City of Tukwila, WA Network Totals:	145,009,000		2,900,000

Option 2 – Estimated Life Cycle Cost Based on Current Condition

A second method to validate the annual budget is to identify the average network PCI and associated rehabilitation requirements, and then estimate the number of miles required to be rehabilitated each year based on a typical life cycle for that rehabilitation activity. For Tukwila, the average PCI for asphalt roads is 66, which places the Tukwila asphalt network in the Edge Mill + Thin Overlay, at an average cost of \$23.55/yd². Based on this estimate the City needs to spend approximately \$2,107,337/year to maintain the current condition average.

Rehabilitation Estimate Based on Network Average Condition

Pavement Type	Pavement Condition Index (PCI)	Rehab Code	Rehab Activity	Average Rehab Life Cycle (Yrs)	Miles to do Each Year	Blended Unit Rate (\$/yd2)		Life Cycle Cost (\$/Yr)
Asphalt Network	66	30	Edge Mill + Thin Overlay (1.5 - 2.0)	18	4.5	23.55	471,300	2,107,337
City of Tukwila, WA Netwo	rk Totals:							2,107,337

Option 3 – Estimated Life Cycle Cost Based on Network Deficiency

The third methodology to confirm the required amount of annual funding is to identify the current network deficiency, that is the amount required to rehabilitate all streets in the network assuming unlimited funding, and then divide by the typical life cycle of each rehabilitation activity. This is referred to as the Fix All Estimate and Life Cycle Cost. The rehab strategies listed in the table are generic in nature and not necessarily the final set that was applied to Tukwila. For Tukwila, the Fix All Estimate for the network deficiency is approximately \$34M and the Life Cycle Cost is \$1.97M/year, broken down as follows:

City of Tukwila, WA

Rehabilitation Estimate Based on Current Network Deficiency and Life Cycle Cost

Rehab Code	Rehab Activity	Network Total (\$)	% of Total	Principal Arterial	Minor Arterial	Collector	Local	Life Cycle (Yrs)	Life Cycle Cost (\$/Yr)
10	Slurry Seal / Seal Coat	761,000	2.2	175,700	427,280	0	157,980	5	152,200
20	MicroSurface / Chip Seal	0	0.0	0	0	0	0	8	0
23	MicroSurface / Chip Seal + Strctrl Ptch	2,895,100	8.5	386,910	540,340	373,820	1,594,040	8	361,900
26	MicroSurface / Chip Seal + Strctrl Ptch	518,300	1.5	518,260	0	0	0	8	64,800
30	Edge Mill + Thin Overlay (1.5 - 2.0)	7,453,000	21.8	674,460	1,989,830	1,796,670	2,992,060	7 18	414,100
33	Edge Mill + Thin Overlay (1.5 - 2.0) + Stretrl Ptch	3,055,400	9.0	2,407,990	340,720	186,010	120,660	18	169,700
36	Edge Mill + Thin Overlay (1.5 - 2.0) + Strctrl Ptch	83,900	0.2	0	0	0	83,930	18	4,700
40	EM/FV/M + Moderate Overlay (2.0 - 3.0)	11,757,800	34.5	2,388,090	2,004,540	3,313,380	4,051,790	23	511,200
43	EM/FVVM + Moderate Overlay (2.0 - 3.0) + Strctrl Ptch	2,279,400	6.7	1,699,250	580,140	0	0	23	99,100
50	FV/M + Thick Overlay (> 2.0 - 3.0)	3,970,600	11.6	797,930	612,080	0	2,560,560	28	141,800
53	FVVM + Thick Overlay (> 2.0 - 3.0) + Strctrl Ptch	1,105,400	3.2	1,105,440	0	0	0	28	39,500
56	FVVM + Thick Overlay (> 2.0 - 3.0) + Strctrl Ptch	234,800	0.7	0	0	0	234,770	28	8,400
	City of Tukwila, WA Network Totals:	34,114,700		10,154,030	6,494,930	5,669,880	11,795,790		1,967,400

5.3 NETWORK BUDGET ANALYSIS MODELS

An analysis containing a total of 10 profile budget runs plus a Do Nothing options was prepared for Tukwila.

The analysis results are summarized below:

- Do Nothing (illustrated in Figure 20) This option identifies the effect of spending no capital for 5
 years. After 5 years, this scenario results in a network average PCI drop from a 66 to a 54 and a
 dramatic increase in backlog to 17%
- Client Budget (Green Line) this represents the City's current annual budget of \$1.05M annually
 dedicated to pavement preservation and rehabilitation. This level of funding will result in a
 network average PCI score of 59 and a backlog increase to 12%.
- Steady State PCI this is simply the funds required to maintain the current network average PCI at a 66. The annual budget required to do so is on the order of \$2.42M annually, however backlog (Very Poor & Poor roadways) continues to climb to 6%.
- Backlog Control Budget A budget designed to maintain the City's current backlog at 5%.

The results of the analysis are summarized in **Figure 18** below. The X-axis highlights the annual budget, while the Y-axis plots the 5 Year Post Rehab Network Average PCI value. The diagonal blue line is the results of the pavement analysis (the Tukwila model profile).

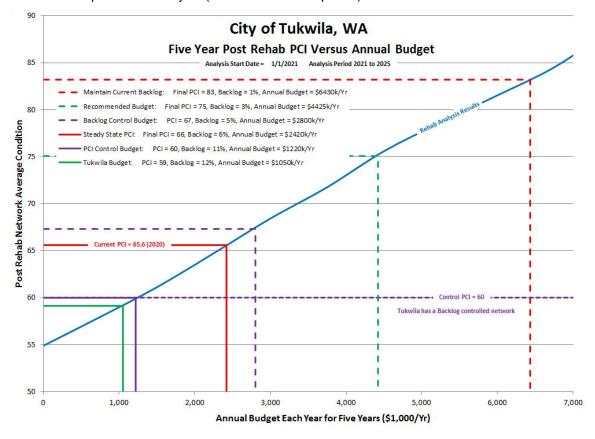


Figure 18 – 5 Year Post Rehab Network PCI Analysis Results

Figure 19 presents the resultant network backlog against annual budget. Similar to Figure 18, but instead of plotting the average PCI score, the blue diagonal line represents the total backlog after 5 years.

The lower the backlog the better, with a maximum of 12% recommended

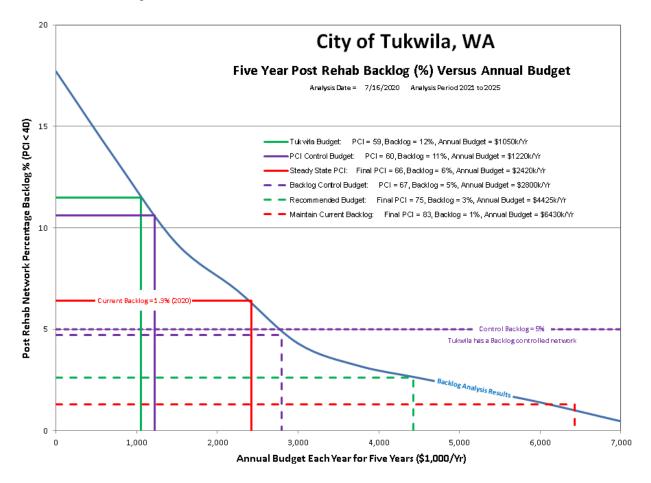


Figure 19 – 5 Year Post Rehab Network Backlog Results

Figure 20 presents the analysis results on an annual basis. This shows that if the budget falls below \$2.42M/year (Steady State Budget), over time the overall condition of the roads will deteriorate as backlog continues to grow.

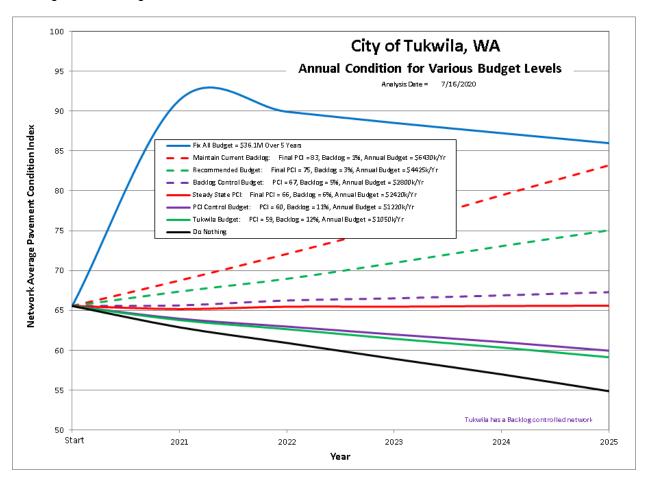


Figure 20- 5 Year Annual PCI

5.4 POST REHABILITATION CONDITION

The following figure (**Figure 21**) compares the current network condition distribution (red) against what the 5-year post rehabilitation distribution would be at with a budget of \$1.05M/year (blue) As can be seen in the plot, the Tukwila budget will reduce the overall network's PCI average and increase the amount of roads rated as Marginal and Poor.

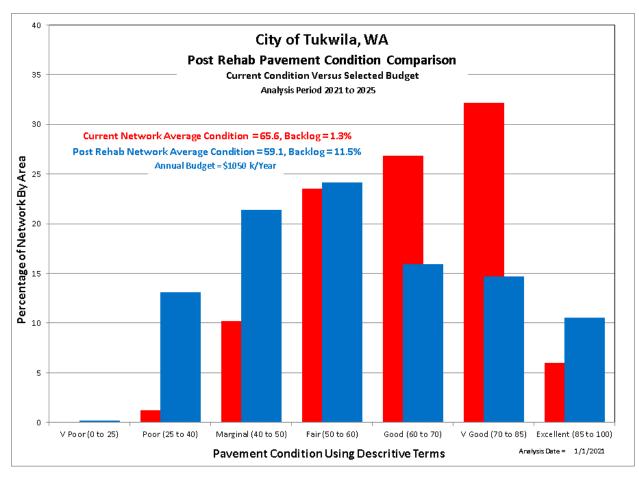


Figure 21 - Five-Year Post Rehabilitation Condition Distribution

Three metrics are used to evaluate the quality of a roadway network, they are:

Average Condition – should be between 60 and 65 at a minimum

Percentage of Backlog – target 12%, should be less than 15%, must be less than 20%

Percentage of Streets Rated as Excellent – should be greater than 15%

Figures 22 and 23 present the current Tukwila recommended budget network rehabilitation plan by year and activity. Electronic versions of these maps are appended to this report.

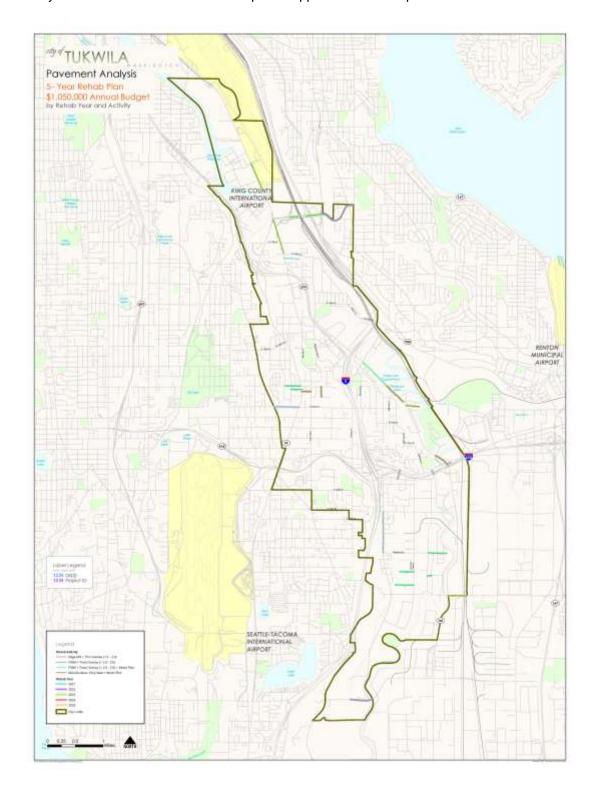


Figure 22 – \$1.05M/Year Rehabilitation Plan by Activity and Year

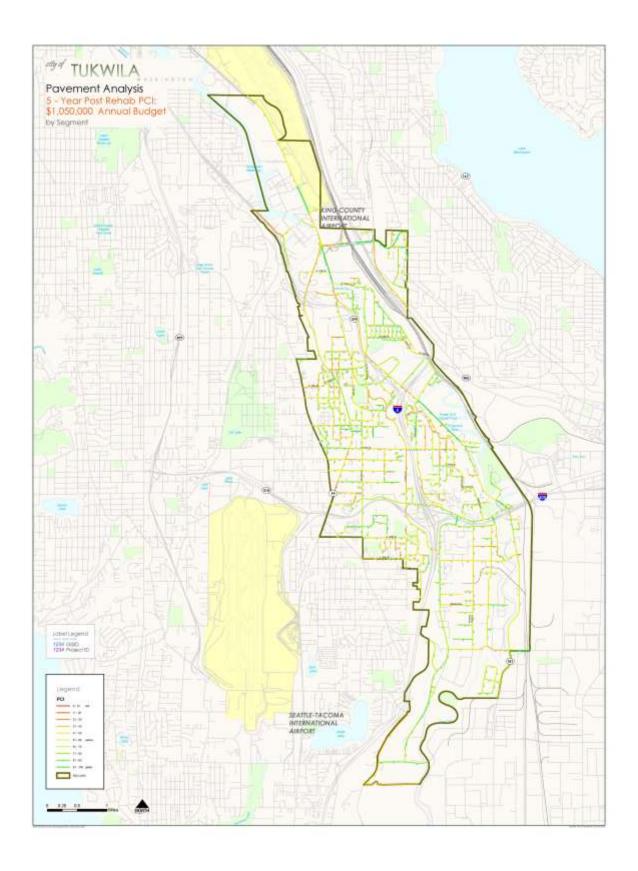


Figure 23 – \$1.05M/Year Post Rehabilitation PCI by Segment

5.5 TRUE COST OF UNDERFUNDING OF A ROADWAY NETWORK

Funding of roadway rehabilitation is an exercise in identifying the balance between available funding and the desired level of service that is right for each agency. There are no hard rules for what is the definitive level of funding as this is a decision for local elected officials, based on their priorities and practices.

However, the true costs of over and underfunding must be presented in order to provide decision makers with all the information available to base the decisions upon. Tukwila has a considerable investment in their paved roadway network with a combined replacement value (just for the streets, not right of way) exceeding \$36M. Spreading this cost over a 50 year period (the expected ultimate life of a roadway) means that an annual investment on the order of \$2.42M per year would be required – not including the cost of maintenance, deterioration ,repair curbing, drainage, tree roots, sidewalks or ADA ramps.

Government Accounting Standards Board Statement 34 requires that agencies who collect taxes (local, business, property or gas taxes) for the purpose of maintaining long term infrastructure assets (such as roads) be good stewards of those assets by either accounting for them financially on the City's balance sheet, or implement a methodology to manage and fund them to a locally defined level of service.

The condition of a roadway network may be equated to equity in a depreciating asset. Regular payments to that asset must be made in order to maintain the equity at a constant level. Should those payments fall short, the equity must eventually be replaced through a large influx of capital in order to make the investment whole again. Roadway networks are no different. Long term underfunding of rehabilitation and maintenance is the direct equivalent of removing equity from an asset – eventually it must be repaid through total reconstruction. The following table compares the real cost of the various budgets against the Do Nothing and Steady State options.

City of Tukwila, WA Equity Removal Summary

Starting PCI:	66
Five Year Post Rehab Fix All PCI:	86
Fix All PCI Increase:	20
Five Year Fix All Total Cost (\$): 💆	36,142,000
Cost Per PCI Point (Total Cost / PCI Increase, \$/pt)	1,770,000

Equity Removal	Based On PCI	Restoration
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For PCI Controlled Agencies

Model: Annual Budget (\$k/Year):	Do Nothing O	\$750k Annual 750	\$1500k Annual 1500	\$2250k Annual 2250	Steady State 2420
Starting PCI	66	66	66	66	66
Final PCI	55	58	61	65	66
PCI Drop:	11	8	4	1	0
Cost to Replace Equity (PCI Drop X \$/Pt, \$):	18,894,000	13,476,000	7,881,000	1,489,000	0
5 Year Budget Expenditure (\$):	0	3,750,000	7,500,000	11,250,000	12,100,000
Total 5 Year Cost (\$):	18,894,000	17,226,000	15,381,000	12,739,000	12,100,000
Cost Over Steady State Budget (\$):	6,794,000	5,126,000	3,281,000	639,000	0
Additional Annual Cost Over Steady State (\$/year):	1,358,800	1,025,200	656,200	127,800	0

5.6 NETWORK RECOMMENDATIONS AND COMMENTS

The following recommendations are presented to Tukwila as an output from the pavement analysis, and must be read in conjunction with the attached reports.

1. Tukwila should adopt a policy statement to maintain PCI at or above a 60 while keeping backlog below 15%.

An annual budget of \$1.05M (dedicated to pavement rehabilitation) will achieve a network average PCI of 59 and backlog of 12%.

An annual budget of \$2.42M (dedicated to pavement rehabilitation) will achieve a network average PCI of 66 and backlog of 6%.

- 2. The full suite of proposed rehabilitation strategies and unit rates should be reviewed annually as these can have considerable effects on the final program.
- 3. No allowance has been made for network growth. As the City expands or increases the amount of paved roads, increased budgets will be required.
- 4. No allowance has been made for routine maintenance activities such as asphalt crack sealing, pothole filling, sweeping, striping or patching within the budget runs and analysis. These costs are assumed to be outside the pavement management costs.
- 5. The City should resurvey their streets every few years to update the condition data and rehabilitation program.



•	ikwila, WA intory and Condition	Summary - Sorted by Street Nar	ne						Con	ditio	n Summa	ary			
	et Analysis	rom Street	Street	nnCL	avement Width (ft)	avement Length (ft)	dd Area (yd2)	avement Area (yd2)	urface Distress Index (SDI)	oughness Index (RI)	tructural Index (SI) avement Cndtn Index (PCI)	rength Rating	ondition Rating	oad Assoc Distress Deducts (LADD)	Non-Load Distress Deducts (NLAD) Current Segment PCI (CPCI)
GISID	ő	<u>Б</u>	٩	Ē	Ра	Pav	Ade	Pav	Sur	Rol	Stru Pav	Stre	Ö	Ľ	<u> </u>
2161	102nd St	27th Ave S	DS@644E 27th Ave S	Local	19	644	68	1,428	61	54	60 59	Mod	Fair	30	9 58
1457	104th Pl	WEST END	Martin L King Jr Way S	Local	19	751	79	1,665	77	57	60 70	Mod	V Good		7 70
1013	104th Pl	47th Ave S	DS@188E 47th Ave S	Local	20	188	21	439	84	65		Mod	V Good		1 77
1425	104th St	27th Ave S	East Marginal Way S	Local	20	977	109	2,280	54	57	60 55	Mod	Fair		10 54
1118	107th St	S Ryan Way	EAST END	Local	20	302	34	705	43	45	60 43	Mod	Marginal		23 43
1278	107th St	49th Ave S	Beacon Ave S	Local	22	471	58	1,209	92	77		Mod	Excellent		3 86
1119	107th St	Beacon Ave S	51st Ave S	Local	22	130	16	334	82	63		Mod	V Good		5 7
1940	109th St	50th Ave S	Beacon Ave S	Local	22	217	27	557	89	70		Mod	V Good	4	6 8
1285	112th St	WEST END	Tukwila Intl Blvd	Local	22	778	95	1,997	60	68		Mod	Good		14 6
1286	112th St	Tukwila Intl Blvd	East Marginal Way S	Collector	35	995	193	4,063	71	64	60 69	Mod	Good		7 6
1284	112th St	50th Ave S	51st Ave S	Local	20	294	33	686	74	53		Mod	Good		4 6
1039	113th St	WEST END	41st Ave S	Local	20	475	53	1,108	50	31	60 44	Mod	Marginal		8 4
1988	113th St	WEST END	51st Ave S	Local	20	345	38	805	72	50		Mod	Good		2 6
1444	114th St	40th Ave S	41st Ave S	Local	22	219	27	562	72	50		Mod	Good		10 6
1442	114th St	41st Ave S	EAST END	Local	22	148	18	380	93	81	60 89	Mod	Excellent		6 8
1441	114th St	49th Ave S	51st Ave S	Local	22	918	112	2,356	91	74	60 85	Mod	Excellent		4 8
1057	115th St	East Marginal Way S	40th Ave S	Collector	33	1,096	201	4,220	66	68		Mod	Good	27	7 6
1058	115th St	40th Ave S	42nd Ave S	Collector	32	764	136	2,852	79	72		Mod	V Good		3 7
1059	115th St	42nd Ave S	NE END	Local	19	209	22	463	73	51	60 66	Mod	Good		4 6
1338	116th St	WEST END	East Marginal Way S	Local	19	1,114	118	2,469	49	53	60 51	Mod	Fair		15 5
2100	116th St	East Marginal Way S	35th Ln S	Local	19	226	24	501	68	54	60 64	Mod	Good		7 6
2102	116th St	35th Ln S	39th Ave S	Local	19	488	52	1,082	75	70		Weak			3 7
1628	116th St	43rd PI S	42nd Ave S	Local	19	363	38	805	69	47		Mod	Good		12 6
1596	117th St	39th Ave S	40th Ave S	Local	20	315	35	735	87	68		Mod	V Good	9	4 8
2098	118th St	44th Ave S	44th PI S	Local	20	94	10	219	90	70		Mod	V Good		11 8
1690	118th St	44th PI S	EAST END	Local	20	201	22	469	54	24		Mod	Marginal		11 4
1360	119th St	40th Ave S	40th PI S	Local	20	240	27	560	86	67	60 80	Mod	V Good	8	5 7
1370	119th St	40th PI S	EAST END	Local	21	224	26	549	88	69		Mod	V Good		11 8
1229	122nd Ln	50th Ave S	51st PI S	Local	21	338	39	828	84	65		Mod	V Good	-	5 7
1440	122nd St	42nd Ave S	43rd Ave S	Local	21	334	39	818	66	53		Mod	Good	28	6 6
1432	122nd St	43rd Ave S	44th Ave S	Local	21	152	18	372	60	58		Mod	Fair	31	9 5
1430	122nd St	44th Ave S	44th Ave S	Local	22	98	12	252	74	57	60 68	Mod	Good		5 6
1435	122nd St	44th Ave S	45th Ave S	Local	22	252	31	647	90	71	60 83	Mod	V Good	8	3 8
1061	122nd St	45th Ave S	46th Ave S	Local	22	190	23	488	89	70		Mod	V Good	8	4 8
1671	122nd St	46th Ave S	46th Ave S	Local	22	54	7	139	69	60	60 66	Mod	Good		10 6
1431	122nd St 122nd St	46th Ave S	47th Ave S	Local	22	248	30	637	84	74		Mod	V Good	11	4 8
1434	122nd St 122nd St	47th Ave S	48th Ave S	Local	19	255	27	565	86	75		Mod	V Good		2 8
1434	122nd St 122nd St	47th Ave S 48th Ave S	44th PI S	Local	19	255 187	20	415	97	75 89	60 94	Mod	Excellent		3 9
1433	122nd St 122nd St	44th PI S	49th Ave S	Local	19	63	7	140	100	90		Mod	Excellent		0 9
			51st PI S		19		, 14	288	93	80					
1106 1417	122nd St 124th St	49th Ave S 35th Ave S	East Marginal Way S	Local Local	19	130 718	76	1,592	38	46		Mod Mod	Excellent		3 8 8
1502	124th St 124th St	42nd Ave S	43rd Ave S	Collector	35	273	76 53	1,592	38 91	46 72		Mod	Marginal V Good	<i>3</i> 5	3 84
			43rd Ave S 44th Ave S		35 35	244	53 47	996	84		60 80	Mod	V Good		5 7 9
1505	124th St	43rd Ave S		Collector						71				11	
1990	124th St	44th Ave S	45th Ave S	Collector	35	257	50	1,049	80	72		Mod	V Good		5 7
1993	124th St	45th Ave S	46th Ave S	Collector	35	243	47	992	83	71	60 79	Mod	V Good		5 79
1414	124th St	46th Ave S	47th Ave S	Collector	34	249	47	988	87	79	60 84	Mod	V Good	9	4 8

-	ntory and Condition	n Summary - Sorted by Street Nan	ne						Cond	ditior	Summ	ary			
Easy Stree	t Analysis				(t)	(#)		d2)	Index (SDI)	(RI)	SI) Index (PCI)			oad Assoc Distress Deducts (LADD)	Ion-Load Distress Deducts (NLAD) current Segment PCI (CPCI)
GISID	On Street	From Street	To Street	FunCL	Pavement Width (ft)	Pavement Length (ft)	Add Area (yd2)	Pavement Area (yd2)	Surface Distress Index	Roughness Index (RI)	Structural Index (SI) Pavement Cndtn Index (PCI)	Strength Rating	Condition Rating	Load Assoc Distr	Non-Load Distress Deducts Current Segment PCI (CPCI)
1991	124th St	47th Ave S	48th Ave S	Collector	34	254	48	1,008	75	82	30 77	Weak	V Good	19	6 77
1816	124th St	48th Ave S	49th Ave S	Collector	34	253	48	1,004	73	77	30 75	Weak	V Good	21	6 74
1553	124th St	49th Ave S	50th PI S	Collector	34	253	48	1,004	76	67	60 73	Mod	V Good		6 72
1336	124th St	50th PI S	51st PI S	Local	20	409	45	954	83	64	60 77	Mod	V Good		5 76
1310	125th St	46th Ave S	50th PI S	Local	20	1,156	128	2,697	86	68	60 80	Mod	V Good		2 80
1373 1512	126th St 126th St	34th Ave S 35th Ave S	35th Ave S 37th Ave S	Local Local	20 20	405 419	45 47	945 978	95 84	84 66	60 91 60 78	Mod Mod	Excellent V Good		2 91 3 78
1643	126th St	37th Ave S	East Marginal Way S	Local	20	549	61	1,281	57	37	60 51	Mod	Fair	30	13 50
1366	126th St	40th Ave S	42nd Ave S	Local	20	317	35	740	76	55	60 69	Mod	Good	18	6 68
1905	128th St	Military Rd S	CITY LIMIT	Local	22	653	80	1,676	100	90	60 97	Mod	Excellent		0 96
1906	128th St	WEST END	35th Ave S	Local	22	218	27	560	79	60	60 73	Mod	V Good	14	7 72
1903	128th St	35th Ave S	37th Ave S	Local	22	409	50	1,050	94	82	60 90	Mod	Excellent	t 3	3 89
1242	128th St	37th Ave S	East Marginal Way S	Local	22	786	96	2,017	78	58	60 71	Mod	V Good	17	5 71
1241	128th St	East Marginal Way S	40th Ave S	Local	19	87	9	193	51	36	60 46	Mod	Marginal		19 46
1455	128th St	40th Ave S	Macadam Rd S	Local	19	854	90	1,893	71	52	60 64	Mod	Good	21	9 64
1549	130th PI	50th PI S	56th Ave S	Local	22	1,828	223	4,692	67	65	60 66	Mod	Good	26	7 66
1280	130th PI	56th Ave S	57th Ave S	Local	22	270	33	693	92	78	60 88	Mod	Excellent		8 87
1170	130th St	32nd Ave S 33rd PI S	33rd Ave S 34th Ave S	Local	22 22	335 99	41 12	860 254	84 87	65 68	60 78 60 81	Mod Mod	V Good V Good		3 77 4 80
1141 1857	130th St 130th St	Tukwila Intl Blvd	35th Ave S	Local Local	22	215	26	552	61	34	60 52		Fair	32	8 51
1635	130th St	35th Ave S	35th Ln S	Local	25	284	39	828	58	50	60 55	Mod	Fair	30	12 55
1387	130th St	35th Ln S	37th Ave S	Local	25	121	17	353	91	72	60 85	Mod	V Good	6	3 84
1155	130th St	37th Ave S	38th Ave S	Local	25	237	33	691	87	68	60 81	Mod	V Good	10	3 80
2093	130th St	38th Ave S	38th Ln S	Local	25	261	36	761	90	70	60 84	Mod	V Good	5	4 83
2095	130th St	38th Ln S	East Marginal Way S	Local	25	282	39	823	65	38	60 56	Mod	Fair	25	10 56
1381	130th St	East Marginal Way S	41st Ave S	Local	25	285	40	831	76	56	60 69	Mod	Good	15	8 69
1140	130th St	41st Ave S	Macadam Rd S	Local	25	493	68	1,438	80	61	60 74	Mod	V Good	11	9 73
1893	131st PI	41st Ave S	Macadam Rd S	Local	20	527	59	1,230	84	65	60 78		V Good		3 77
1186	131st PI	Macadam Rd S	44th Ave S	Local	20	336	37	784	82	63	60 76	Mod	V Good		3 75
1185	131st Pl	44th Ave S	44th Ave S	Local	20	133	15	310	62	37	60 54	Mod	Fair		14 53
1007 1917	132nd Pl 132nd Pl	S 132nd Pl NW END	S 132nd PI 38th PI S	Local Local	19 19	214 180	23 19	474 399	54 91	23 71	60 43	Mod Mod	Marginal V Good	33 7	14 43 2 84
2097	132nd Pl	38th PI S	40th Ave S	Local	19	285	30	632	65	38	60 56		Fair	26	9 56
1616	132nd St	33rd Ave S	34th Ave S	Collector	35	332	65	1,356	62	72	30 65			31	8 65
2005	132nd St	34th Ave S	34th Ln S	Collector	34	248	47	984	48	62	60 53	Mod	Fair	41	10 52
2006	132nd St	34th Ln S	35th Ave S	Collector	33	96	18	370	63	59	60 62	Mod	Good	30	7 61
1615	132nd St	35th Ave S	Tukwila Intl Blvd	Collector	35	98	19	400	81	62	60 75	Mod	V Good	11	8 74
1618	132nd St	35th Ln S	37th Ave S	Local	22	132	16	339	70	47	60 62	Mod	Good	18	12 62
1529	133rd St	Military Rd S	30th PI S	Collector	25	449	62	1,310	44	53	60 47	Mod	Marginal		20 46
1153	133rd St	30th PI S	31st Ave S	Collector	25	208	29	607	44	82	60 57	Mod	Fair		21 56
1172	133rd St	31st Ave S	32nd Ave S	Collector	25	303	42	884	42	64	60 49		Marginal		20 49
1154	133rd St	32nd Ave S	S 132nd St	Collector	25	388	54	1,132	62	49	60 58	Mod	Fair	28	10 57
1520	133rd St	34th Ave S	35th Ave S	Local	22	309	38	793	45	30	60 40	Mod	Poor	41	14 39
1642	133rd St	35th Ave S	EAST END	Local	22 34	262 488	32 92	672	52 82	46 74	60 50 60 80	Mod Mod	Marginal		16 49 4 79
1851 1555	133rd St 133rd St	East Marginal Way S Macadam Rd S	Macadam Rd S 44th Ave S	Minor Arterial Minor Arterial	34 34	488 334	63	1,936 1,325	93	74 79	60 88		V Good Excellent		4 79

Street Inve	•	n Summary - Sorted by Street Nan	ne						Cond	ditio	n Summa	ry			
Easy Stree	et Analysis					£)		2)	dex (SDI)	RI)	l) dex (PCI)			oad Assoc Distress Deducts (LADD)	Deducts (NLAD) CI (CPCI)
GISID	On Street	From Street	To Street	FunCL	Pavement Width (ft)	Pavement Length (ft)	Add Area (yd2)	Pavement Area (yd2)	Surface Distress Index (SDI)	Roughness Index (RI)	Structural Index (SI) Pavement Cndtn Index (PCI)	Strength Rating	Condition Rating	Load Assoc Distre	Non-Load Distress Deducts (NLAD) Current Segment PCI (CPCI)
1862	133rd St	44th Ave S	S 134th Pl	Minor Arterial	34	481	91	1,908	80	62	60 74	Mod	V Good	14	5 74
1919	133rd St	S 134th PI	SR 599 Ramp	Minor Arterial	35	388	75	1,584	68	88		Weak	V Good	25	7 74
1921	133rd St	SR 599 Ramp	SR 599	Minor Arterial	45	22	6	116	85	98	60 89	Mod	Excellent		3 89
1926	133rd St	SR 599	Interurban Ave S	Minor Arterial	35	210	41	858	67	61	60 65	Mod	Good	24	9 65
1858	133rd St	56th Ave S S 133rd St	57th Ave S 47th Ave S	Local	27 26	259 977	39 141	816 2,964	95 74	84	60 91 60 68	Mod Mod	Excellent	1 16	4 91 9 67
1829 1638	134th PI 134th PI	47th Ave S	48th Ave S	Local Local	26 26	215	31	2,964 652	81	55 62	60 68 60 74	Mod	Good V Good		2 74
1703	135th St	Military Rd S	32nd Ave S	Local	26	835	121	2,533	57	50	60 55	Mod	Fair		12 54
1702	135th St	32nd Ave S	34th Ave S	Local	27	637	96	2,007	80	61	60 74	Mod	V Good	14	6 73
1701	135th St	34th Ave S	35th Ave S	Local	27	320	48	1,008	69	55	60 65	Mod	Good	23	8 64
1214	135th St	35th Ave S	37th Ave S	Local	27	309	46	973	77	57	60 71	Mod	V Good	15	7 70
1899	136th St	32nd Ave S	34th Ave S	Local	27	670	101	2,111	72	50	60 65	Mod	Good	22	6 65
1676	136th St	WEST END	45th PI S	Local	28	410	64	1,339	94	82	60 90	Mod	Excellent		3 89
1900	136th St	Macadam Rd S	48th PI S	Local	28	302	47	987	74	52	60 66	Mod	Good	20	6 66 5 81
2084 2083	136th St 136th St	WEST END 52nd PI S	52nd PI S 52nd Ave S	Local Local	28 28	80 284	12 44	261 928	88 87	69 68	60 81 60 80	Mod Mod	V Good V Good	8 1	5 81 3 80
1898	137th Pl	43rd PI S	NORTH END	Local	28	136	21	444	65	41	60 57	Mod	Fair	27	8 57
1896	137th Pl	S 137th PI	S 137th PI	Local	26	188	27	570	83	64	60 76	Mod	V Good	12	5 76
1634	137th St	32nd Ave S	34th Ave S	Local	26	767	111	2,327	78	63	60 73	Mod	V Good	17	5 73
1830	137th St	34th Ave S	35th Ave S	Local	26	206	30	625	76	56	60 70	Mod	Good	18	6 69
1145	137th St	35th Ave S	37th Ave S	Local	26	300	43	910	70	60	60 67	Mod	Good	22	8 66
1139	137th St	40th Ave S	43rd PI S	Local	26	150	22	455	63	38	60 55	Mod	Fair	30	6 54
1171	137th St	43rd PI S	43rd PI S	Local	25	285	40	831	69	52	60 64	Mod	Good	24	7 63
1835	137th St	43rd PI S	44th Ave S	Local	25	420	58	1,225	85	67	60 79	Mod	V Good	12	3 79
1850 1173	137th St 137th St	44th Ave S 45th Ave S	45th Ave S 45th PI S	Local Local	25 25	387 248	54 34	1,129 723	88 86	69 67	60 82 60 79	Mod Mod	V Good V Good	9 10	3 81 4 79
1849	137th St	45th PI S	Macadam Rd S	Local	25	163	23	475	86	68	60 80	Mod	V Good	6	8 80
1854	137th St	52nd Ave S	52nd PI S	Local	27	208	31	655	44	49	60 46	Mod	Marginal		16 45
1847	137th St	52nd PI S	53rd Ave S	Local	27	127	19	400	52	38	60 48	Mod	Marginal		10 47
1636	137th St	53rd Ave S	53rd Ave S	Local	27	152	23	479	65	38	60 56	Mod	Fair	19	16 56
1637	137th St	53rd Ave S	56th Ave S	Local	27	224	34	706	39	34	60 37	Mod	Poor		18 37
1958	138th St	37th Ave S	38th Ave S	Local	27	340	51	1,071	82	64	60 76	Mod	V Good	12	6 76
1959	138th St	Macadam Rd S	NE END	Local	27	268	40	844	56	45	60 53	Mod	Fair		11 52
2085 1121	138th St 139th St	51st Ave S Tukwila Intl Blvd	51st Ave S 41st Ave S	Local Local	27 24	114 382	17 51	359 1,070	84 69	65 45	60 77 60 61	Mod Mod	V Good Good	13 23	3 77 7 61
1121	139th St	41st Ave S	42nd Ave S	Local	24	348	46	974	83	64	60 77	Mod	V Good	23 12	5 76
1125	139th St	42nd Ave S	44th Ave S	Local	24	620	83	1,736	64	48	60 59	Mod	Fair	28	7 58
1126	139th St	WEST END	45th Ave S	Local	24	113	15	316	85	67	60 79	Mod	V Good	10	5 79
1123	139th St	45th Ave S	EAST END	Local	24	295	39	826	77	57	60 70	Mod	V Good	19	4 70
1128	139th St	51st Ave S	53rd Ave S	Local	26	546	79	1,656	76	55	60 69	Mod	Good	20	4 68
1127	139th St	53rd Ave S	55th Ave S	Local	26	374	54	1,134	50	39	60 46	Mod	Marginal		7 45
1122	139th St	56th Ave S	56th PI S	Local	26	183	26	555	50	24	80 41	Strng	Marginal		21 41
1600	140th St	Military Rd S	33rd Ave S	Local	26	358	52	1,086	60	48	60 56	Mod	Fair		11 55
1602	140th St	33rd Ave S	33rd PI S	Local	26	426	62	1,292	71	57	60 66	Mod	Good	21	8 66
1485	140th St	33rd PI S	35th Ave S	Local	27 27	537	81 9	1,692	66	49	60 60	Mod	Good		12 60
1483	140th St	35th Ave S	34th Ave S	Local	21	59	9	186	58	49	60 55	Mod	Fair	30	12 54

eet inver	et Inventory and Condition Summary - Sorted by Street Name							1	Conc	intior	Summa	ary			
Casy Street	: Analysis	±			avement Width (ft)	Pavement Length (ft)	yd2)	avement Area (yd2)	Surface Distress Index (SDI)	koughness Index (RI)	Structural Index (SI) Pavement Cndtn Index (PCI)	ating	Condition Rating	oad Assoc Distress Deducts (LADD)	Non-Load Distress Deducts (NLAD)
0	Street	om Street	o Street	7.	ment \	ment l	۵dd Area (yd2)	ment /	ace Dis	yhness	tural I	Strength Rating	dition P	Asso	Load I
GISID	s uo	From	S OL	FunCL	Pave	Pave	Add	Pave	Surfa	Roug	Struc	Stre	Conc	Load	Non
601	140th St	34th Ave S	37th Ave S	Local	27	369	55	1,162	33	39	60 35	Mod	Poor	51	16 3
604	140th St	37th Ave S	38th Ave S	Local	27	307	46	967	45	42	60 44	Mod	Marginal	35	13 4
484	140th St	38th Ave S	Tukwila Intl Blvd	Local	27	336	50	1,058	47	32	60 42	Mod	Marginal	41	12 4
603	140th St	Tukwila Intl Blvd	42nd Ave S	Local	26	646	93	1,960	78	59	60 72		V Good		5 7
486	140th St	42nd Ave S	43rd Ave S	Local	26	326	47	989	54	61	60 57	Mod	Fair	36	10 5
599	140th St	43rd Ave S	44th Ave S	Local	26	329	48	998	74	60	60 69	Mod	Good	22	5 6
605	140th St	44th Ave S	45th Ave S	Local	26	364	53	1,104	67	49	60 61	Mod	Good	29	4 6
547	140th St	45th Ave S	EAST END	Local	26	568	82	1,723	91	75	60 86		Excellent		0 8
598 482	140th St	53rd Ave S Interurban Ave S	55th Ave S NE END	Local	24 24	540 207	72 28	1,512 580	79 65	59 38	60 72 60 56	Mod Mod	V Good Fair	16 24	6 7
402 588	140th St 141st St	33rd PI S	34th PI S	Local Local	24	178	24	498	86	67	60 80	Mod	V Good	10	4 7
589	141st St	37th Ave S	Tukwila Intl Blvd	Local	24	690	92	1,932	49	43	60 47	Mod	Marginal		
587	141st St	Tukwila Intl Blvd	42nd Ave S	Local	24	589	79	1,649	53	43	60 49	Mod	Marginal		15 4
591	141st St	56th Ave S	56th PI S	Local	24	239	32	669	36	39	80 37	Strng	Poor	37	18 3
590	141st St	56th PI S	57th Ave S	Local	25	167	23	487	51	45	60 49		Marginal		
089	142nd Pl	Military Rd S	EAST END	Local	25	208	29	607	80	61	60 73	Mod	V Good	14	7 7
090	142nd Pl	S 142nd PI	S 142nd Pl	Local	25	146	20	426	88	69	60 81	Mod	V Good	4	9 8
279	142nd Pl	35th Ave S	37th Ave S	Local	25	436	61	1,272	66	40	60 57	Mod	Fair	26	8 5
742	142nd St	37th Ave S	Tukwila Intl Blvd	Local	25	700	97	2,042	55	48	60 53	Mod	Fair		
743	142nd St	42nd Ave S	43rd Ave S	Local	26	318	46	965	68	44	60 60	Mod	Good	25	7 5
739	142nd St	WEST END	52nd Ave S	Local	26	85	12	258	83	64	60 77	Mod	V Good	6	11 7
744	142nd St	52nd Ave S	53rd Ave S	Local	26	272	39	825	79	60	60 73	Mod	V Good	15	6 7
737	142nd St	57th Ave S	59th Ave S	Local	26	426	62	1,292	57	31	60 49	Mod	Marginal	31	12 4
353	143rd Pl	Interurban Ave S	EAST END	Local	26	839	121	2,545	88	69	60 81	Mod	V Good	10	3 8
138	143rd St	Interurban Ave S	EAST END	Local	26	1,107	160	3,358	60	50	60 57	Mod	Fair	26	9 5
677	144th St	Military Rd S	34th Ave S	Collector	30	319	53	1,117	61	60	60 61	Mod	Good	30	9 6
)16	144th St	34th Ave S	34th Ln S	Collector	30	289	48	1,012	74	80	30 76	Weak		20	6 7
)15	144th St	34th Ln S	37th Ave S	Collector	30	495	83	1,733	58	75	30 64			33	9 (
187	144th St	37th Ave S	Tukwila Intl Blvd	Collector	30	540	90	1,890	59	61	60 60	Mod	Fair	31	10 5
678	144th St	Tukwila Intl Blvd	41st Ave S	Collector	30	392	65	1,372	69	44	60 61	Mod	Good	24	7 6
191	144th St	41st Ave S	42nd Ave S	Collector	30	390	65	1,365	82	63	60 76	Mod	V Good	14	4 7
)74	144th St	42nd Ave S	44th Ln S	Collector	29	777	125	2,629	53	74	60 60	Mod	Fair	35	11 !
073	144th St	44th Ln S	46th Ave S	Collector	29	545	88 105	1,844	47 47	64	60 53	Mod	Fair		17 !
194 190	144th St 144th St	46th Ave S 48th Ave S	48th Ave S Macadam Rd S	Collector	29 29	653 654	105 105	2,209 2,213	47 52	75 58	30 57 60 54	Weak Mod	Fair Fair	41 37	12 5
190 079	144th St 144th St	48th Ave S Macadam Rd S	Macadam Rd S I-5 Fwy	Collector Collector	29 29	187	30	633	52 79	60	60 73	Mod	V Good	37 16	
079 076	144th St	I-5 Fwy	53rd Ave S	Collector	29	254	41	859	58	54	60 56	Mod	Fair	30	12 5
189	144th St	53rd Ave S	Macadam Rd S	Collector	31	106	18	383	100	90	60 97	Mod	Excellent		0 9
245	144th St	Macadam Rd S	54th PI S	Collector	31	343	59	1,241	59	59	60 59	Mod	Fair	27	14 5
243 244	144th St	54th PI S	55th Ave S	Collector	31	129	22	467	57	57	60 57	Mod	Fair		16 5
579	144th St	55th Ave S	56th Ave S	Collector	31	421	73	1,523	61	53	60 58	Mod	Fair	26	13 5
192	144th St	56th Ave S	57th Ave S	Collector	31	425	73	1,537	82	63	60 76	Mod	V Good	9	8 7
193	144th St	57th Ave S	58th Ave S	Collector	31	427	74	1,544	54	34	60 47	Mod	Marginal		15 4
	144th St	58th Ave S	59th Ave S	Local	27	420	63	1,323	60	41	60 54	Mod	Fair	29	11 5
243											- -				
243 188	144th St	59th Ave S	EAST END	Local	27	218	33	687	63	38	60 55	Mod	Fair	25	11 5

Street Inventory and Condition Summary - Sorted by Street Name								Cond	ditior	Summ	ary				
Tasy Stree	et Analysis				(tt)	:h (ft)		(yd2)	s Index (SDI)	»x (RI)	(SI) Index (PCI)		5	oad Assoc Distress Deducts (LADD)	Distress Deducts (NLAD)
GISID	On Street	From Street	To Street	FunCL	Pavement Width (ft)	Pavement Length (ft)	Add Area (yd2)	Pavement Area (yd2)	Surface Distress Index	Roughness Index (RI)	Structural Index (SI) Pavement Cndtn Index (PCI)	Strength Rating	Condition Rating	Load Assoc Dis	Non-Load Distress Deducts Current Segment PCI (CPCI)
1509	145th St	48th PI S	EAST END	Local	27	231	35	728	96	86	60 92	Mod	Excellent	3	1 92
1367	145th St	S 145th St	DS@63E S 145th St	Local	27	63	9	198	93	79	60 88	Mod	Excellent	1	6 88
1361	145th St	DS@63E S 145th St	S 145th St	Local	27	95	14	299	80	61	80 74	Strng	V Good	0	20 73
1805	146th St	Military Rd S	35th Ave S	Local	25	435	60	1,269	75	56	60 69	Mod	Good	20	5 68
1804	146th St	35th Ave S	Tukwila Intl Blvd	Local	25	681	95	1,986	65	55	60 62	Mod	Good		8 61
1942	146th St	Tukwila Intl Blvd	41st Ave S	Local	25	659	92	1,922	49	48	60 49	Mod	Marginal		14 48
1801	146th St	41st Ave S	42nd Ave S	Local	25	347	48	1,012	56	48	60 54	Mod	Fair		13 53
1806 1803	146th St 146th St	42nd Ave S 46th Ave S	46th Ave S 48th PI S	Local Local	25 25	1,318 793	183 110	3,844 2,313	74 54	71 56	30 73 60 55	Weak Mod	V Good Fair	23 37	3 73 9 54
1802	146th St	48th PI S	EAST END	Local	26	316	46	959	75	54	60 68	Mod	Good	21	5 67
1758	147th St	56th Ave S	57th Ave S	Local	26	377	54	1,144	91	73	60 85	Mod	Excellent		4 85
1251	147th St	57th Ave S	58th Ave S	Local	26	427	62	1,295	85	67	60 79	Mod	V Good	13	2 79
1252	147th St	58th Ave S	59th Aly S	Collector	35	205	40	837	83	65	60 77	Mod	V Good	14	3 77
1756	147th St	59th Aly S	59th Ave S	Collector	35	99	19	404	88	69	60 82	Mod	V Good	9	2 82
1759	147th St	59th Ave S	59th Ave S	Collector	35	131	25	535	66	39	60 57	Mod	Fair		11 56
1757	147th St	Interurban Ave S	EAST END	Local	32	120	21	448	70	47	60 62	Mod	Good	22	8 62
1578	148th St	Military Rd S	Tukwila Intl Blvd	Local	32	817	145	3,050	68	54	60 63	Mod	Good	25	6 63
1272 1273	148th St 148th St	Tukwila Intl Blvd 42nd Ave S	42nd Ave S 46th Ave S	Local Local	32 32	1,233 1,314	219 234	4,603 4,906	62 67	55 62	60 60 60 65	Mod Mod	Good Good	30 24	8 59 4 65
2071	148th St	46th Ave S	46th Ln S	Local	32	255	45	952	67	60	60 65	Mod	Good		10 64
2070	148th St	46th Ln S	46th Ln S	Local	32	153	27	571	98	89	60 95	Mod	Excellent		0 95
1271	148th St	46th Ln S	EAST END	Local	32	218	39	814	88	69	60 82	Mod	V Good	4	8 82
1335	149th St	WEST END	57th Ave S	Local	32	656	117	2,449	81	62	60 75	Mod	V Good	14	5 74
1506	149th St	59th Ave S	62nd Ave S	Local	32	674	120	2,516	79	60	60 72	Mod	V Good	17	5 72
1345	149th St	DS@480E NW END	Interurban Ave S	Local	32	537	95	2,005	51	46	60 49	Mod	Marginal	35	10 49
1501	150th PI	WEST END	57th Ave S	Local	32	767	136	2,863	83	65	60 77	Mod	V Good	13	4 77
1369	150th St	Tukwila Intl Blvd	38th Ave S	Local	32	530	94	1,979	90	70	60 83	Mod	V Good	10	0 83
1374	150th St	38th Ave S	41st PI S	Local	32	688 242	122	2,569 903	93 73	81	60 89	Mod	Excellent		3 89 6 65
1376 1350	150th St 150th St	41st PI S 42nd Ave S	42nd Ave S 43rd PI S	Local Local	32 32	527	43 94	1,967	73 69	51 50	60 65 60 63	Mod Mod	Good Good	22 22	6 65 9 62
1349	150th St	43rd AVE 3	46th Ave S	Local	32	788	140	2,942	73	59	60 69	Mod	Good	21	5 68
1358	150th St	46th Ave S	EAST END	Local	32	898	160	3,353	56	35	60 49	Mod	Marginal		13 94
1354	150th St	Macadam Rd S	EAST END	Local	32	767	136	2,863	76	56	60 69	Mod	Good	18	6 69
1662	151st PI	EAST END	EAST END	Local	32	183	33	683	58	29	60 48	Mod	Marginal	28	14 47
1607	151st PI	WEST END	63rd PI S	Local	32	98	17	366	63	48	60 58	Mod	Fair	26	11 57
1546	151st PI	63rd PI S	EAST END	Local	32	161	29	601	68	58	60 65	Mod	Good		13 64
1606	151st PI	EAST END	EAST END	Local	32	182	32	679	81	62	60 74		V Good		10 74
1544	151st St	S 151st St	DS@90E S 151st St	Local	32	90	16	336	92	77	60 87	Mod	Excellent		5 87
1299	151st St	DS@90E S 151st St	S 151st St	Local	32	44	8	164	75 70	54	80 68	Strng	Good		19 68
1543 1542	151st St 151st St	WEST END 51st Ave S	42nd Ave S 52nd Ave S	Local Local	32 32	220 375	39 67	821 1,400	78 72	58 49	60 71 60 64	Mod Mod	V Good Good	16 24	6 71 5 64
1298	151st St	62nd Ave S	63rd PI S	Collector	32 35	310	60	1,266	65	68	60 66	Mod	Good		11 65
1300	151st St	63rd PI S	65th Ave S	Collector	35	332	65	1,356	68	65	60 67	Mod	Good		14 66
1995	152nd PI	57th Ave S	EAST END	Local	26	458	66	1,389	54	27	60 45	Mod	Marginal		10 44
1718	152nd St	International Blvd	37th PI S	Local	26	717	104	2,175	45	48	60 47	Mod	Marginal		13 46
1719	152nd St	37th PI S	40th Ave S	Local	26	656	95	1,990	55	56	60 55	Mod	Fair		7 55

•	ntory and Conditior	Summary - Sorted by Street Nan	пе						Cond	ditior	Summa	ary			
Easy Stree	et Analysis								(las)		(PCI)			educts (LADD)	Distress Deducts (NLAD)
GISID	On Street	From Street	To Street	FunCL	Pavement Width (ft)	Pavement Length (ft)	Add Area (yd2)	Pavement Area (yd2)	Surface Distress Index (SDI)	Roughness Index (RI)	Structural Index (SI) Pavement Cndtn Index (PCI)	Strength Rating	Condition Rating	Load Assoc Distress Deducts (LADD)	Non-Load Distress Deducts Current Segment PCI (CPCI)
1108	152nd St	40th Ave S	42nd Ave S	Local	25	315	44	919	44	29	60 39	Mod	Poor	43	13 38
1720	152nd St	WEST END	51st Ave S	Local	25	271	38	790	72	50	60 65	Mod	Good	22	6 64
1717	152nd St	Macadam Rd S	57th Ave S	Local	26	895	129	2,715	78	61	60 72	Mod	V Good	19	3 72
1716	152nd St	57th Ave S	EAST END	Local	26	537	78	1,629	70	47	60 63	Mod	Good	18	6 62
1584	153rd St	62nd Ave S	64th Ave S	Local	26	590	85	1,790	77	57	60 70	Mod	Good	11	13 69
1585	153rd St	64th Ave S	65th Ave S	Local	26	410	59	1,244	88	69	60 82	Mod	V Good	3	9 81
1661	153rd St	65th Ave S	EAST END	Local	27	659	99	2,076	69	44	60 60	Mod	Good	24	7 60
2023 2022	156th St 156th St	44th Ave S 44th PI S	44th PI S 47th Ave S	Local Local	27 25	407 415	61 58	1,282 1,210	88 89	69 70	60 82 60 83	Mod Mod	V Good V Good	9 8	3 81 4 82
1197	156th St	I-405 Ramp	Nelsen Pl	Local	26	431	62	1,307	51	61	60 55	Mod	Fair	33	16 54
1852	158th St	S 160th St	Military Rd S	Local	27	135	20	425	65	45	60 59	Mod	Fair	25	10 58
1526	158th St	Military Rd S	38th PI S	Local	27	870	131	2,741	73	61	60 69	Mod	Good	21	6 69
1649	158th St	38th PI S	38th PI S	Local	28	38	6	124	98	89	60 95	Mod	Excellent		2 95
1650	158th St	38th PI S	39th PI S	Local	25	100	14	292	98	89	60 95	Mod	Excellent	t 0	3 94
1522	158th St	39th PI S	40th PI S	Local	25	277	38	808	68	55	60 64	Mod	Good		11 94
1646	158th St	40th PI S	40th Ln S	Local	27	184	28	580	60	45	60 55	Mod	Fair	23	17 94
1556	158th St	40th Ln S	42nd Ave S	Local	26	350	51	1,062	51	44	60 49	Mod	Marginal		14 94
1525	158th St	42nd Ave S	44th Ave S	Local	25	740	103	2,158	93	80	60 89	Mod	Excellent		3 88
1527	158th St	44th Ave S	47th Ave S	Local	25	856	119 100	2,497	88 74	69 53	60 81	Mod Mod	V Good		4 81
1807 1907	159th St 160th St	51st Ave S 42nd Ave S	53rd Ave S 43rd Ave S	Local Collector	25 29	721 348	56	2,103 1,177	63	49	60 67 60 58	Mod	Good Fair		11 66 12 58
1476	160th St	43rd Ave S	46th Ave S	Collector	29	1,029	166	3,481	63	57	60 61	Mod	Good		12 60
1469	160th St	46th Ave S	47th Ave S	Collector	29	302	49	1,022	61	45	60 56	Mod	Fair		10 55
1908	160th St	47th Ave S	48th Ave S	Collector	28	300	47	980	67	41	60 58	Mod	Fair		10 58
1468	160th St	48th Ave S	51st Ave S	Collector	28	689	107	2,251	63	45	60 57	Mod	Fair	25	12 56
1909	160th St	51st Ave S	Slade Way	Collector	28	802	125	2,620	63	59	60 62	Mod	Good	27	10 61
1545	161st St	S 161st St	DS@78W S 161st St	Local	24	78	10	218	48	32	60 43	Mod	Marginal		10 42
1797	161st St	DS@78W S 161st St	S 161st St	Local	24	79	11	221	76	56	60 69	Mod	Good	23	1 69
1798	161st St	WEST END	51st Ave S	Local	24	364	49	1,019	69	45	60 61	Mod	Good		10 60
1220 1219	162nd St 162nd St	46th Ave S 48th Ave S	EAST END EAST END	Local	24 25	125 301	17 42	350 878	60 51	28 37	60 50 60 46	Mod Mod	Marginal		13 49 10 45
1264	163rd Pl	45th Ave S	45th PI S	Local Local	25	142	20	414	70	47	60 63	Mod	Marginal Good		10 43
1262	163rd PI	45th PI S	46th Ave S	Local	25	140	19	408	63	34	60 54	Mod	Fair	28	9 53
1263	163rd PI	51st Ave S	EAST END	Local	26	483	70	1,465	58	42	60 53	Mod	Fair		12 52
1261	163rd PI	S 163rd PI	S 163rd Pl	Local	26	139	20	422	57	45	60 53	Mod	Fair		20 52
1490	164th St	42nd Ave S	47th Ave S	Collector	31	1,551	267	5,609	53	62	60 56	Mod	Fair	36	8 55
1404	164th St	47th Ave S	47th PI S	Collector	31	121	21	438	67	64	60 66	Mod	Good	24	9 66
1489	164th St	47th PI S	48th PI S	Collector	31	389	67	1,407	75	69	60 73	Mod	V Good	21	4 72
1493	164th St	48th PI S	49th Ave S	Collector	32	202	36	754	56	67	30 60	Weak	Fair	38	6 59
1491	164th St	49th Ave S	51st Ave S	Collector	32	379	67	1,415	66	40	60 58	Mod	Fair	26	7 57
1492	164th St	51st Ave S	52nd Ave S	Local	25	545	76	1,590	59	42	60 53	Mod	Fair		16 53
1989	164th St	52nd Ave S	EAST END	Local	25	277	38	808	59 74	58 57	60 59	Mod	Fair	27	13 58
2155 1215	166th St 166th St	S 166th St CITY LIMIT	51st Ave S 53rd Ave S	Collector Local	35 25	152 190	30 26	621 554	74 66	57 53	60 68 60 62	Mod Mod	Good Good	22 25	5 68 9 61
1565	166th St	53rd Ave S	54th Ave S	Local	26	270	39	819	55	49	60 53	Mod	Fair		14 52
1910	168th St	WEST END	Southcenter Pkwy	Local	27	276	41	869	69	45	60 61	Mod	Good		11 60

Street Inve	entory and Condition	Summary - Sorted by Street No	ame					i	Cond	dition	Summ	ary			
Easy Stree	et Analysis Ou	From Street	To Street	FunCL	Pavement Width (ft)	Pavement Length (ft)	Add Area (yd2)	Pavement Area (yd2)	Surface Distress Index (SDI)	Roughness Index (RI)	Structural Index (SI) Pavement Cndtn Index (PCI)	Strength Rating	Condition Rating	Load Assoc Distress Deducts (LADD)	Non-Load Distress Deducts (NLAD) Current Segment PCI (CPCI)
1003	168th St	Southcenter Pkwy	DS@359E Southcenter Pkwy	Local	25	359	50	1,047	70	46	60 62		Good		10 61
1100	180th St 180th St	Southcenter Pkwy Andover Park W	Andover Park W Andover Park E	Minor Arterial Minor Arterial	45 45	1,434 918	359 230	7,529 4.820	67 51	66 62	60 67		Good Fair	24 36	9 66
1723 1223	180th St	Andover Park V	Sperry Dr	Minor Arterial	45 45	881	220	4,625	ار 47	64	30 52			36 44	9 52
1223	180th St	Sperry Dr	West Valley Hwy	Minor Arterial	45	528	132	2,772	41	56	30 46				9 45
1101	180th St	West Valley Hwy	S 180th St	Principal Arterial		1,234	309	6,479	52	58	60 54		Fair	39	6 54
1465	184th Pl	54th PI S	Southcenter Pkwy	Minor Arterial	45	2,072	518	10,878	75	68	60 73		V Good	18	6 73
1888	200th St	Orillia Rd S	46th Ave S	Principal Arterial		247	77	1,614	99	90	60 96		Excellent		0 95
1097	200th St	46th Ave S	Southcenter Pkwy	Principal Arterial		1,315	409	8,591	100	90	60 97		Excellent	0	0 96
1454	200th St	Southcenter Pkwy	CITY LIMIT	Principal Arterial		1,439	448	9,401	37	71	60 48	Mod	Marginal	38	25 48
1120	204th St	Orillia Rd S	Frager Rd	Local	25	3,339	464	9,739	45	56	60 48	Mod	Marginal	39	15 48
1957	27th Ave S	S 102nd St	SOUTH END	Local	24	1,756	234	4,917	83	74	60 80	Mod	V Good	13	4 79
1787	32nd Ave S	S 130th St	S 133rd St	Local	19	763	81	1,691	49	51	60 50	Mod	Fair	36	15 49
2013	32nd Ave S	S 133rd St	S 133rd Ln	Local	19	306	32	678	86	67	60 80		V Good	12	2 79
2011	32nd Ave S	S 133rd Ln	S 135th St	Local	19	345	36	765	63	52	60 60		Fair	28	8 59
1792	32nd Ave S	S 135th St	S 136th St	Local	20	319	35	744	75	55	60 68		Good	19	6 68
1786	32nd Ave S	S 136th St	S 137th St	Local	19	274	29	607	75	69	30 73			22	2 73
1791	32nd Ave S	S 137th St	SOUTH END	Local	20	135	15	315	94	82	60 90		Excellent		6 89
1446	33rd Ave S	S 130th St	S 132nd St	Local	19	755	80	1,674	79	60	60 73		V Good	17	4 72 3 82
1447 1474	33rd Ave S 33rd PI S	S 140th St S 140th St	34th PI S S 141st St	Local	19 20	993 358	105 40	2,201 835	89 78	69 59	60 72		V Good V Good	8 18	3 82 4 71
1582	33rd PI S	NW END	S 130th St	Local Local	20	326	36	761	60	28	60 49		Marginal		7 48
1463	33rd PI S	33rd PI S	33rd PI S	Local	19	130	14	288	65	38	60 56		Fair	27	8 56
1207	34th Ave S	S 126th St	SOUTH END	Local	24	628	84	1,758	75	54	60 68		Good	16	6 67
1208	34th Ave S	S 130th St	S 132nd St	Local	25	693	96	2,021	75	54	60 68		Good	17	8 67
1211	34th Ave S	S 132nd St	S 133rd St	Local	25	285	40	831	77	76	30 77			19	4 77
1206	34th Ave S	S 133rd St	S 135th St	Local	30	664	111	2,324	73	55	60 67	Mod	Good	20	7 66
1210	34th Ave S	S 135th St	S 136th St	Local	28	327	51	1,068	75	65	60 72	Mod	V Good	20	5 72
1203	34th Ave S	S 136th St	S 137th St	Local	28	286	44	934	82	64	60 76	Mod	V Good	15	4 75
1212	34th Ave S	S 137th St	S 140th St	Local	28	1,067	166	3,486	79	60	60 73		V Good	16	5 72
1204	34th Ave S	33rd Ave S	S 144th St	Local	29	511	82	1,729	89	70	60 82		V Good	11	0 82
1205	34th Ave S	S 144th St	Military Rd S	Local	22	582	71	1,494	85	67	60 79		V Good	11	4 79
1209	34th PI S	S 141st St	33rd Ave S	Local	25	478	66	1,394	88	69	60 82		V Good	7	5 81
1732	35th Ave S	S 124th St	S 126th St	Local	21	869	101	2,129	65	43	60 58		Fair	22	13 57
1733 1099	35th Ave S 35th Ave S	S 126th St S 128th St	S 128th St S 130th St	Local	22 21	423 636	52 74	1,086 1,558	54 52	46 33	60 52		Fair	29	13 51
2004	35th Ave S	S 130th St	Tukwila Intl Blvd	Local Local	22	310	74 38	796	58	29	60 46		Marginal Marginal	34 31	11 45
1730	35th Ave S	S 132nd St	S 133rd St	Local	32	441	78	1,646	78	58	60 71		V Good	13	9 71
1236	35th Ave S	S 133rd St	S 135td St	Local	32	663	118	2,475	57	52	60 55		Fair	28	15 5 4
1234	35th Ave S	S 135th St	S 137th St	Local	28	592	92	1,934	79	60	60 73		V Good	17	3 73
1235	35th Ave S	S 140th St	S 142nd Pl	Local	29	833	134	2,818	57	46	60 53		Fair	32	11 53
1233	35th Ave S	S 146th St	SOUTH END	Local	30	294	49	1,029	71	47	60 63		Good	21	8 62
1741	35th Ln S	S 130th St	S 132nd St	Local	19	483	51	1,071	51	36	60 46		Marginal		15 45
1107	37th Ave S	S 126th St	S 128th St	Local	19	434	46	962	84	65	60 78	Mod	V Good	11	5 77
1064	37th Ave S	S 128th St	S 130th St	Local	22	621	76	1,594	47	41	60 45	Mod	Marginal	37	16 44
1065	37th Ave S	S 130th St	S 132nd St	Local	30	418	70	1,463	55	69	60 60	Mod	Good	34	10 59

Street Inve	entory and Conditi	on Summary - Sorted by Street Nar	ne						Con	ditio	Summ	ary			
Easy Stre	et Analysis								(SDI)	•	ex (PCI)			Deducts (LADD)	Distress Deducts (NLAD)
GISID	On Street	From Street	To Street	FunCL	Pavement Width (ft)	Pavement Length (ft)	Add Area (yd2)	Pavement Area (yd2)	Surface Distress Index	Roughness Index (RI)	Structural Index (SI) Pavement Cndtn Index (PCI)	Strength Rating	Condition Rating	Load Assoc Distress Deducts (LADD)	Non-Load Distress Deducts Current Segment PCI (CPCI)
1072	37th Ave S	S 132nd St	SOUTH END	Local	30	347	58	1,215	83	64	60 76	Mod	V Good	13	4 76
2008	37th Ave S	Tukwila Intl Blvd	S 135th St	Local	25	652	91	1,902	53	44	60 50	Mod	Marginal		11 49
1071	37th Ave S	S 135th St	S 137th St	Local	32	590	105	2,203	61	67	30 63	Weak		32	7 63
1066	37th Ave S	S 137th St	S 138th St	Local	32	321	57	1,198	60	56	60 59	Mod	Fair	31	8 58
1068	37th Ave S	S 138th St	S 140th St	Local	32	721	128	2,692	62	71	60 65	Mod	Good	29	8 65
1067	37th Ave S	S 140th St	S 141st St	Local	32	230	41	859	41	47	60 43	Mod	Marginal		15 43
1063	37th Ave S	S 141st St	S 142nd St	Local	24	461	61	1,291	42	65	60 50	Mod	Fair		14 49
1069	37th Ave S	S 142nd St	S 142nd PI	Local	26	156	23	473	56	80	30 64	Weak			12 63
1070	37th Ave S	S 142nd Pl	S 144th St	Local	26	502	73	1,523	51	64	60 56	Mod	Fair		12 55
1308 1309	38th Ave S 38th Ave S	S 130th St S 138th St	SOUTH END S 140th St	Local Local	22 30	603 632	74 105	1,548 2,212	72 70	56 58	60 67 60 66	Mod Mod	Good Good	18 26	10 66 4 65
2094	38th Ln S	S 130th St	SOUTH END	Local	24	169	23	473	78	59	60 72	Mod	V Good		9 71
1006	38th Ln S	38th Ln S	38th Ln S	Local	19	162	17	359	98	89	60 95	Mod	Excellent		2 95
1918	38th PI S	NORTH END	S 132nd PI	Local	20	163	18	380	51	39	60 47	Mod	Marginal		11 46
1970	39th Ave S	S 116th St	S 117th St	Local	22	294	36	755	68	62	60 66	Mod	Good	27	4 66
1842	40th Ave S	S 114th St	S 115th St	Local	19	310	33	687	48	26	60 41	Mod	Marginal	36	16 40
1169	40th Ave S	NORTH END	S 116th Pl	Local	20	243	27	567	95	84	60 91	Mod	Excellent		3 91
1831	40th Ave S	S 116th Pl	S 117th St	Local	24	202	27	566	95	84	60 91	Mod	Excellent		2 91
1156	40th Ave S	S 117th St	S 117th PI	Local	25	181	25	528	96	87	60 93	Mod	Excellent		3 93
1855 1861	40th Ave S 40th Ave S	S 117th PI Interurban PI S	Interurban PI S Interurban Ave S	Local Local	24 25	480 109	64 15	1,344 318	97 75	88 55	60 94 60 68	Mod Mod	Excellent Good	22	3 93 3 68
1143	40th Ave S	S 126th St	S 128th St	Local	25	317	44	925	66	39	60 57	Mod	Fair		12 56
1825	40th Ave S	East Marginal Way S	S 132nd Pl	Collector	26	881	127	2,672	51	59	60 54	Mod	Fair		15 53
2096	40th Ave S	S 132nd PI	42nd Ave S	Collector	27	1,544	232	4,864	61	73	60 65	Mod	Good		10 65
1379	40th Ave S	S 152nd St	Southcenter Blvd	Local	24	632	84	1,770	54	31	80 46	Strng	Marginal		13 45
1256	40th Ave S	Southcenter Blvd	S 154th Ln	Local	25	142	20	414	76	55	60 69	Mod	Good	18	7 68
1254	40th Ave S	S 154th Ln	DS@337S S 154th Ln	Local	25	337	47	983	88	69	60 82	Mod	V Good	11	2 81
1953	40th PI S	NORTH END	S 119th St	Local	25	262	36	764	77	57	60 70	Mod	V Good		6 70
1178	41st Ave S	S 113th St	S 114th St	Local	26	240	35	728	78	59	60 72	Mod	V Good	14	8 72
1180	41st Ave S 41st Ave S	S 130th St	S 131st PI	Local	25 24	421 588	58 78	1,228 1,646	76 85	55 66	60 69 60 78	Mod Mod	Good	20 11	4 68 4 78
1181 1517	42nd Ave S	NORTH END S 115th St	S 139th St S 116th St	Local Collector	34	152	78 29	603	59	55	60 58	Mod	V Good Fair		11 57
1521	42nd Ave S	S 116th St	Pedestrian Bridge S 119th St Access	Collector	35	1,145	223	4,675	73	78	30 75				4 74
1557	42nd Ave S	Pedestrian Bridge S 119th St Access	S 122nd St	Collector	25	987	137	2,879	81	83	60 82	Mod	V Good	15	4 81
1195	42nd Ave S	S 122nd St	S 124th St	Collector	25	713	99	2,080	74	72	60 73	Mod	V Good	22	4 73
1647	42nd Ave S	S 124th St	Macadam Rd S	Collector	28	1,063	165	3,472	63	56	60 61	Mod	Good	29	8 60
1179	42nd Ave S	S 126th St	SE END	Local	25	164	23	478	91	73	60 85	Mod	V Good	7	2 84
1516	42nd Ave S	40th Ave S	S 139th St	Collector	25	794	110	2,316	59	71	60 63	Mod	Good	30	11 63
1196	42nd Ave S	S 139th St	S 140th St	Collector	26	281	41	852	89	70	60 83	Mod	V Good	8	3 83
1519	42nd Ave S	S 140th St	S 140th St	Collector	28	38	6	124	94	82	60 90	Mod	Excellent		6 90
1388	42nd Ave S	S 140th St	S 141st St	Collector	30	318	53	1,113	78	61	60 72	Mod	V Good		4 72
1530	42nd Ave S	S 141st St	S 142nd St	Collector	30 31	362	60 111	1,267 2,336	84	65 64	60 78	Mod Mod	V Good		3 78 6 70
1663 1515	42nd Ave S 42nd Ave S	S 142nd St S 144th St	S 144th St S 146th St	Collector Collector	31 31	646 666	111 115	2,336	73 55	64	60 70 60 59	Mod	V Good Fair		6 70 13 59
1163	42nd Ave S	S 144th St	S 148th St	Collector	32	661	118	2,468	55	73	60 61	Mod	Good		14 61
1389	42nd Ave S	S 148th St	S 150th St	Collector	28	661	103	2,159	55	74	30 62				11 61

Street Inve	entory and Condition	Summary - Sorted by Street Nar	ne						Cond	dition	Summ	ary			
Easy Street	et Analysis								(spi)		(PCI)			Distress Deducts (LADD)	Deducts (NLAD) CI (CPCI)
GISID	On Street	From Street	To Street	FuncL	Pavement Width (ft)	Pavement Length (ft)	Add Area (yd2)	Pavement Area (yd2)	Surface Distress Index	Roughness Index (RI)	Structural Index (SI) Pavement Cndtn Index (PCI)	Strength Rating	Condition Rating	Load Assoc Distress Do	Non-Load Distress Deducts Current Segment PCI (CPCI)
1523	42nd Ave S	S 150th St	S 151st St	Collector	29	305	49	1,032	59	65	60 61	Mod	Good	30	11 60
1859	42nd Ave S	S 151st St	S 152nd St	Collector	28	362	56	1,183	54	75	60 61	Mod	Good		
1860	42nd Ave S	S 152nd St	Southcenter Blvd	Collector	29	349	56	1,181	52	57	60 53	Mod	Fair	34	15 53
1648	42nd Ave S	Southcenter Blvd	S 158th St	Collector	28	1,648	256	5,383	75	69	60 73		V Good		5 73
1639	42nd Ave S	S 158th St	S 160th St	Collector	29	654	105	2,213	87	68	60 81	Mod	V Good		4 81
1964	43rd Ave S	S 122nd St	S 124th St	Local	25	713	99	2,080	73	56	60 67	Mod	Good	23	
1962 1963	43rd Ave S 43rd Ave S	Macadam Rd S S 140th St	SOUTH END S 142nd St	Local Local	26 27	814 671	118 101	2,469 2,114	50 73	46 51	60 49 60 65	Mod Mod	Marginal Good	1 37 20	13 48 7 65
1961	43rd Ave S	NORTH END	S 160th St	Local	29	352	57	1,191	80	61	60 74		V Good		
1748	43rd PI S	S 116th St	44th Ave S	Local	30	340	57	1,190	86	67	60 80		V Good		
1972	43rd PI S	S 137th St	S 137th PI	Local	23	375	48	1,006	72	50	60 65		Good	22	
1796	44th Ave S	43rd PI S	S 118th St	Local	19	535	56	1,186	68	77	30 71	Weak	V Good	25	7 70
1793	44th Ave S	S 118th St	S 122nd St	Local	20	1,407	156	3,283	71	70	30 71	Weak	V Good	24	5 71
1789	44th Ave S	S 122nd St	S 124th St	Local	23	710	91	1,905	84	66	60 78		V Good		
1795	44th Ave S	S 131st PI	S 133rd St	Local	23	293	37	786	75	54	60 68		Good	17	
1788	44th Ave S	S 137th St	S 139th St	Local	19	641	68	1,421	64	42	60 56		Fair		10 56
1790 2021	44th Ave S 44th Ave S	S 140th St S 156th St	S 142nd St S 158th St	Local Local	19 19	650 475	69 50	1,441 1,053	53 94	45 84	60 50 60 91	Mod Mod	Fair Excellent		11 50 3 90
1260	44th PI S	S 118th St	46th Ave S	Local	19	705	74	1,563	92	76	60 86		Excellent		1 86
1266	44th PI S	46th Ave S	S 122nd St	Local	19	1,145	121	2,538	86	67	60 80	Mod	V Good		1 79
1897	45th Ave S	S 122nd St	S 124th St	Local	26	711	103	2,157	77	57	60 70	Mod	V Good		2 70
1399	45th Ave S	S 137th St	S 139th St	Local	26	766	111	2,324	70	47	60 62	Mod	Good	25	5 62
1247	45th Ave S	S 139th St	S 140th St	Local	23	209	27	561	79	60	60 73		V Good	16	
1913	45th Ave S	NORTH END	S 163rd PI	Local	23	434	55	1,165	62	40			Fair	30	9 54
1230	45th PI S	S 136th St	S 137th St	Local	24	277	37	776	94	82	60 90	Mod	Excellent		5 90
1232	45th PI S	S 163rd PI	SOUTH END	Local	25	150	21	438	64 95	49	60 59	Mod Mod	Fair		16 59 5 91
1217 1231	45th PI S 45th PI S	45th PI S DS@65S 45th PI S	DS@65S 45th PI S 45th PI S	Local Local	26 25	65 60	9 8	197 175	95 88	84 69	60 91 60 82		Excellent V Good		5 91 7 82
1275	46th Ave S	44th PI S	S 122nd St	Local	21	870	102	2,132	94	83	60 90		Excellent		2 90
1783	46th Ave S	S 122nd St	S 124th St	Local	23	712	91	1,911	75	55	60 69	Mod	Good	20	5 68
1274	46th Ave S	S 124th St	S 125th St	Local	24	176	23	493	88	69	60 81	Mod	V Good		2 81
1781	46th Ave S	S 144th St	S 146th St	Local	20	666	74	1,554	55	51	60 54	Mod	Fair	33	12 53
1782	46th Ave S	S 146th St	S 148th St	Local	20	659	73	1,538	49	49	60 49	Mod	Marginal		16 48
1277	46th Ave S	S 148th St	SOUTH END	Local	19	220	23	488	58	30	60 48		Marginal		6 48
1276	46th Ave S	NORTH END	S 150th St	Local	19	304	32	674	85	66	60 79	Mod	V Good	9	6 78
1836	46th Ave S	S 160th St	S 162nd St	Local	21	603	70	1,477 385	60 72	45	60 55		Fair		11 54 9 65
1914 1828	46th Ave S 47th Ave S	S 163rd PI CITY LIMIT	S 162nd St S 104th PI	Local Local	25 21	132 229	18 27	561	52	50 51	60 65 60 52		Good Fair	18 35	
1385	47th Ave S	S 104th Pl	S 104th Pt S 107th St	Local	22	744	91	1,910	43	52	60 46		Marginal		
1832	47th Ave S	S Ryan Way	S 109th St	Local	22	642	78	1,648	73	51	60 66		Good	21	7 65
1856	47th Ave S	S 122nd St	S 124th St	Local	21	713	83	1,747	81	62			V Good		3 74
1383	47th Ave S	NE END	S 134th Pl	Local	25	292	41	852	54	25	60 45	Mod	Marginal		14 44
1142	47th Ave S	S 156th St	S 158th St	Local	26	510	74	1,547	91	74	60 85	Mod	Excellent		3 85
1840	47th Ave S	S 158th St	SOUTH END	Local	24	579	77	1,621	96	86	60 92		Excellent		3 92
1846	47th Ave S	S 160th St	S 162nd St	Local	25	608	84	1,773	66	39	60 57		Fair		
1451	48th Ave S	S 122nd St	S 124th St	Local	19	714	75	1,583	89	70	60 83	Mod	V Good	8	3 82

•	entory and Conditi	ion Summary - Sorted by Street Name							Cond	ditior	Summa	ary			
Easy Street	et Analysis								(IDS)		(PCI)			educts (LADD)	ducts (NLAD) CPCI)
GISID	On Street	From Street	To Street	FunCL	Pavement Width (ft)	Pavement Length (ft)	Add Area (yd2)	Pavement Area (yd2)	Surface Distress Index	Roughness Index (RI)	Structural Index (SI) Pavement Cndtn Index (PCI)	Strength Rating	Condition Rating	Load Assoc Distress Deducts (LADD)	Non-Load Distress Deducts (NLAD) Current Segment PCI (CPCI)
1110	48th Ave S	NE END	Interurban Ave S	Local	25	2,049	285	5,976	84	68	60 78	Mod	V Good	12	5 78
1109	48th Ave S	NE END	S 134th PI	Local	23	118	15	317	96	86	60 92	Mod	Excellent		3 92
1111	48th Ave S	S 134th PI	48th PI S	Local	19	222	23	492	87	68	60 81	Mod	V Good	8	5 80
1449	48th Ave S	48th PI S	Macadam Rd S	Local	19	437	46	969	76	56	60 70	Mod	Good	18	5 69
1452	48th Ave S	S 160th St	S 162nd St	Local	19	601	63	1,332	57	39	60 51	Mod	Fair		13 50
1448	48th Ave S	S 162nd St	SOUTH END	Local	19	165	17	366	51	42	60 48	Mod	Marginal		11 48
1051	48th PI S	48th Ave S S 146th St	S 136th St	Local	19	291	31	645 532	78 98	59 89	60 72 60 95	Mod Mod	V Good Excellent	19 : 0	3 71 2 94
1048 1047	48th PI S 48th PI S	S 145th St	S 145th St NW END	Local Local	19 24	240 191	25 25	535	69	45	60 61	Mod	Good	26	2 94 5 61
1047	48th PI S	DS@85N 48th PI S	48th PI S	Local	24	89	12	249	59	33	60 50	Mod	Fair		13 49
1050	48th PI S	48th PI S	DS@85N 48th PI S	Local	25	85	12	248	97	88	60 94	Mod	Excellent		3 93
1699	49th Ave S	S 107th St	S 114th St	Local	25	2,254	313	6,574	88	70	60 82	Mod	V Good	9	3 82
1667	49th Ave S	S 122nd St	S 124th St	Local	26	714	103	2,166	86	67	60 80	Mod	V Good	10	4 80
1666	49th Ave S	NORTH END	S 164th St	Local	27	405	61	1,276	57	30	60 48	Mod	Marginal	30	14 47
1808	50th Ave S	NORTH END	S 112th St	Local	19	273	29	605	74	54	60 68	Mod	Good	21	5 67
1809	50th Ave S	51st PI S	S 122nd Ln	Local	20	499	55	1,164	86	67	60 79	Mod	V Good	12	3 79
1386	50th PI S	S 124th St	S 125th St	Collector	35	257	50	1,049	49	53	60 50	Mod	Fair		20 49
1146 1950	50th PI S 51st Ave S	S 125th St NORTH END	S 130th PI S 138th St	Collector	35 22	977 722	190 88	3,989 1,853	45 84	71 65	60 54 60 78	Mod Mod	Fair V Good	40 11	15 53 5 77
1199	51st Ave S	S 138th St	S 139th St	Local Local	20	338	38	789	52	35	60 46	Mod	Marginal		13 46
1200	51st Ave S	S 139th St	SOUTH END	Local	21	487	57	1,193	73	53	60 66	Mod	Good	20	7 66
1044	51st Ave S	S 144th St	S 151st St	Collector	35	2,319	451	9,469	48	63	60 53	Mod	Fair		11 52
1951	51st Ave S	S 151st St	S 152nd St	Collector	35	329	64	1,343	57	64	60 59	Mod	Fair		11 59
1952	51st Ave S	S 152nd St	Southcenter Blvd	Collector	34	569	107	2,257	63	78	30 68	Weak	Good	28	9 68
1653	51st Ave S	Southcenter Blvd	SR 518 Ramp	Minor Arterial	30	291	49	1,019	52	66	60 56	Mod	Fair	28	20 56
2058	51st Ave S	SR 518 Ramp	I-5 Ramp	Minor Arterial	30	279	47	977	47	67	60 54	Mod	Fair		15 53
2051	51st Ave S	SR 518	SR 518 Ramp	Minor Arterial	30	192	32	672	62	57	60 60	Mod	Good		12 60
1046	51st Ave S	NORTH END	S 159th St	Local	25	424	59	1,237	57	33	60 49	Mod	Marginal		15 49
1045 1949	51st Ave S 51st Ave S	S 160th St S 161st St	S 161st St S 163rd PI	Collector Collector	35 35	284 702	55 137	1,160 2.867	61 69	46 83	60 56 30 74	Mod Weak	Fair V Good	29 22	10 56 9 73
1201	51st Ave S	S 163rd PI	S 164th St	Collector	35	200	39	817	65	66	60 66	Mod	Good		12 65
1202	51st Ave S	S 164th St	S 166th St	Collector	35	621	121	2,536	70	75	60 72	Mod	V Good	23	7 71
1700	51st PI S	S 122nd St	50th Ave S	Local	20	199	22	464	99	90	60 96	Mod	Excellent		1 95
1670	51st PI S	50th Ave S	S 122nd Ln	Local	20	586	65	1,367	82	63	60 76	Mod	V Good	15	4 75
2099	51st PI S	S 122nd Ln	S 124th St	Local	20	128	14	299	80	61	60 74	Mod	V Good	18	2 73
1060	51st PI S	S 124th St	SE END	Local	20	815	91	1,902	72	54	60 66	Mod	Good	24	4 65
1326	52nd Ave S	Interurban Ave S	53rd Ave S	Local	20	288	32	672	86	68	60 80	Mod	V Good	8	5 80
1324	52nd Ave S	53rd Ave S	S 136th St	Local	22	268	33	688	63	56	60 60	Mod	Good		15 60
1331 1328	52nd Ave S 52nd Ave S	S 136th St S 137th St	S 137th St S 138th St	Local Local	22 22	294 261	36 32	755 670	54 25	53 34	60 54 60 28	Mod Mod	Fair Poor		13 53 19 28
1325	52nd Ave S	NORTH END	S 142nd St	Local	22	269	33	690	75	54	60 68	Mod	Good		11 68
1330	52nd Ave S	S 142nd St	SOUTH END	Local	22	333	41	855	89	70	60 83	Mod	V Good	10	1 82
1327	52nd Ave S	S 151st St	Southcenter Blvd	Local	21	914	107	2,239	81	62	60 75	Mod	V Good	15	4 74
1329	52nd Ave S	NORTH END	S 164th St	Local	21	173	20	424	78	58	60 71	Mod	V Good	14	8 71
1594	52nd PI S	52nd Ave S	S 137th St	Local	21	261	30	639	55	51	60 54	Mod	Fair	32	13 53
1115	53rd Ave S	52nd Ave S	S 136th St	Local	21	274	32	671	74	53	60 67	Mod	Good	15	11 67

	eet Inventory and Condition Summary - Sorted by Street Name							Cond	ditior	Summa	ary				
Easy Stre	eet Analysis								(SDI)		(PCI)			educts (LADD)	Deducts (NLAD) CI (CPCI)
GISID	On Street	From Street	To Street	FunCL	Pavement Width (ft)	Pavement Length (ft)	Add Area (yd2)	Pavement Area (yd2)	Surface Distress Index	Roughness Index (RI)	Structural Index (SI) Pavement Cndtn Index (PCI)	Strength Rating	Condition Rating	Load Assoc Distress Deducts (LADD)	Non-Load Distress Deducts Current Segment PCI (CPCI)
1889	53rd Ave S	S 136th St	S 137th St	Local	21	213	25	522	63	33	60 53	Mod	Fair	25	12 52
1117	53rd Ave S	S 137th St	S 139th St	Collector	35	484	94	1,976	100	90	60 97	Mod	Excellen		0 96
1890	53rd Ave S	S 139th St	S 140th St	Collector	35	303	59	1,237	100	90	60 97	Mod	Excellen	t 0	0 96
1174	53rd Ave S	S 140th St	S 142nd St	Collector	34	621	117	2,463	99	90	60 96	Mod	Excellen	t 1	0 95
1891	53rd Ave S	S 142nd St	S 144th St	Collector	33	787	144	3,030	83	64	60 77	Mod	V Good	11	6 76
2163	53rd Ave S	Southcenter Blvd	DS@355S Southcenter Blvd	Local	22	355	43	911	74	52	60 66	Mod	Good	17	9 66
1112	53rd Ave S	Klickitat Dr	S 159th St	Collector	27	519	78	1,635	64	59	60 62	Mod	Good		11 62
1114	53rd Ave S	S 159th St	S 160th St	Collector	28	552	86	1,803	67	57	60 64	Mod	Good	21	12 63
1116 1113	53rd Ave S 53rd Ave S	S 166th St S 170th St	S 170th St S 172nd Ln	Local	22 22	1,112 863	136 105	2,854 2,215	62 70	58 57	60 61 60 66	Mod Mod	Good Good	29 21	9 60
1736	53rd PI S	Slade Way	53rd PI S SPUR	Local Local	22	410	50	1,052	66	53	60 62	Mod	Good	23	10 61
1684	53rd PI S	53rd PI S SPUR	53rd PLS SPUR	Local	36	48	10	202	51	61	60 54	Mod	Fair		18 54
1683	53rd PI S	53rd PI S SPUR	SW END	Local	21	168	20	412	77	58	60 71	Mod	V Good	18	5 70
1250	53rd PI S	53rd PI S	53rd PI S	Local	21	151	18	370	71	48	60 63	Mod	Good	20	9 63
1971	53rd PI S SPUR	53rd PI S	53rd PI S	Local	21	176	21	431	63	42	60 56	Mod	Fair		11 56
1487	54th Ave S	Slade Way	S 166th St	Local	22	965	118	2,477	48	47	60 47	Mod	Marginal	36	16 94
1475	55th Ave S	S 140th St	S 144th St	Local	20	1,418	158	3,309	48	45	60 47	Mod	Marginal	34	18 46
1407	56th Ave S	S 130th PI	S 133rd St	Local	20	784	87	1,829	83	64	60 77	Mod	V Good	11	6 76
1409	56th Ave S	S 133rd St	Interurban Ave S	Local	20	1,195	133	2,788	71	55	60 65	Mod	Good	22	8 65
1408	56th Ave S	S 137th St	56th PI S	Local	20	761	85	1,776	52	61	60 55	Mod	Fair		13 54
1411	56th Ave S	S 139th St	S 141st St	Local	20	712	79	1,661	56	43	60 52	Mod	Fair	28	16 51
1410	56th Ave S	S 141st St	S 144th St	Local	21	1,048	122	2,568	62	51	60 59	Mod	Fair	27	10 58
1406	56th Ave S	S 144th St	S 147th St	Local	21	1,016	119	2,489	73	62	60 69	Mod	Good	18	9 69
1992	56th PI S 57th Ave S	56th Ave S S 130th PI	S 141st St Pamela Dr	Local Local	21 21	768 378	90 44	1,882 926	64 91	52 72	60 61 60 84	Mod Mod	Good V Good	26 7	10 60 2 84
1569 1570	57th Ave S	Pamela Dr	S 133rd St	Local	21	335	39	821	81	62	60 75	Mod	V Good	15	4 74
2162	57th Ave S	SW END	Interurban Ave S	Local	22	199	24	511	60	27	60 49	Mod	Marginal		9 48
1568	57th Ave S	S 141st St	S 142nd St	Local	22	319	39	819	53	52	60 53	Mod	Fair		12 52
1402	57th Ave S	S 142nd St	S 144th St	Local	22	668	82	1,715	62	51	60 58	Mod	Fair	28	11 57
1403	57th Ave S	S 144th St	S 147th St	Local	23	975	125	2,616	37	47	60 40	Mod	Marginal	40	16 40
1572	57th Ave S	S 147th St	S 149th St	Local	23	518	66	1,390	88	69	60 81	Mod	V Good	9	4 81
1567	57th Ave S	S 149th St	S 150th PI	Local	23	533	68	1,430	82	63	60 76	Mod	V Good	14	4 75
1566	57th Ave S	S 150th PI	SOUTH END	Local	23	232	30	623	63	44	60 57	Mod	Fair	28	9 56
1571	57th Ave S	S 152nd St	S 152nd PI	Local	23	320	41	859	51	33	60 45	Mod	Marginal		17 4 4
1226	58th Ave S	Interurban Ave S	59th Ave S	Collector	35	577	112	2,356	66	43	60 58	Mod	Fair		10 57
1227	58th Ave S	59th Ave S	S 144th St	Collector	35	668	130	2,728	56	64	60 59	Mod	Fair		11 58
1224	58th Ave S	S 144th St	S 147th St	Collector	35	975	190 124	3,981 2,597	64 87	68 68	60 66 60 80	Mod Mod	Good V Good	25 11	11 65 2 80
1225 1362	58th Ave S 59th Aly S	S 147th St S 147th St	SOUTH END SOUTH END	Local Local	20 19	1,113 643	68	2,597 1,425	87 64	36	60 55	Mod	v Good Fair	29	7 54
1738	59th Ave S	S 147th St S 142nd St	S 144th St	Local	20	928	103	2,165	63	48	60 58	Mod	Fair		10 57
1644	59th Ave S	S 144th St	S 147th St	Local	21	997	116	2,443	62	39	60 54	Mod	Fair		12 53
1824	59th Ave S	S 147th St	S 149th St	Local	22	611	75	1,568	73	57	60 68	Mod	Good	20	7 67
1969	61st Ave S	Southcenter Blvd	Tukwila Pkwy	Minor Arterial	40	587	130	2,739	45	59	30 50	Weak		46	10 49
1095	62nd Ave S	59th Ave S	S 149th St	Collector	33	816	150	3,142	59	71	60 63	Mod	Good		16 62
1093	62nd Ave S	S 149th St	S 149th PI	Collector	35	278	54	1,135	67	67	60 68	Mod	Good		11 67
1094	62nd Ave S	S 149th Pl	S 151st St	Collector	34	416	79	1,650	68	69	60 68	Mod	Good	22	11 68

Street Inv	et Inventory and Condition Summary - Sorted by Street Name							Con	ditior	Summ	ary				
Easy Str	neet Analysis					t)		(2	dex (SDI)	31)) dex (PCI)			oad Assoc Distress Deducts (LADD)	Deducts (NLAD) CI (CPCI)
GISID	On Street	From Street	To Street	FunCL	Pavement Width (ft)	Pavement Length (ft)	Add Area (yd2)	Pavement Area (yd2)	Surface Distress Index (SDI)	Roughness Index (RI)	Structural Index (SI) Pavement Cndtn Index (PCI)	Strength Rating	Condition Rating	Load Assoc Distres	Non-Load Distress Deducts Current Segment PCI (CPCI)
1004	62nd Ave S	S 151st St	DS@131S S 151st St	Local	20	131	15	306	25	24	60 25	Mod	V Poor	51	23 24
1096	62nd Ave S	S 153rd St	Sunwood Blvd	Local	20	158	18	369	83	64	60 76		V Good		11 76
1091	62nd Ave S	Sunwood Blvd	Southcenter Blvd	Local	20	750	83	1,750	68	49	60 6 1		Good		11 61
1558	63rd PI S	S 151st St	S 151st PI	Local	22	174	21	447	74	52	60 67		Good	16	10 66
1216	64th Ave S	S 153rd St	SOUTH END	Local	22	321	39	824	84	65	60 78	Mod	V Good	10	6 77
1041	65th Ave S	S 151st St	S 153rd St	Collector	35	916	178	3,740	78	74	60 77	Mod	V Good	13	9 76
1198	65th Ave S	S 153rd St	S 153rd St	Collector	34	128	24	508	80	71	60 77		V Good	12	8 77
1040	65th Ave S	S 153rd St	Southcenter Blvd	Collector	35	951	185	3,883	57	56	60 5 7		Fair		11 56
1955	66th Ave S	Southcenter Blvd	I-405 Ramp	Minor Arterial	35	246	48	1,005	66	40	60 58		Fair	24	10 57
1640	Airport Way S	Boeing Access Rd	Airport Way S	Minor Arterial	32	625	111	2,333	42	68	60 5 1		Fair		20 50
1514	Airport Way S	CITY LIMIT	Boeing Access Rd	Minor Arterial	30 30	1,068	178	3,738	46 78	69	60 54		Fair	37	17 53
1709 1712	Andover Park E Andover Park E	Tukwila Pkwy Evans Black Dr	Evans Black Dr Baker Blvd	Minor Arterial Minor Arterial	30	782 465	130 78	2,737 1,628	88	59 76	60 7 1		V Good V Good	18 10	4 71 2 84
1712	Andover Park E	Baker Blvd	Strander Blvd	Minor Arterial	30	876	146	3,066	74	64	60 71		V Good	19	6 70
1710	Andover Park E	Strander Blvd	Treck Dr	Minor Arterial	30	715	119	2,503	72	60	60 68		Good	18	7 67
1711	Andover Park E	Treck Dr	Minkler Blvd	Minor Arterial	32	1,934	344	7,220	64	77	60 69		Good	25	11 68
1714	Andover Park E	Minkler Blvd	Costco Dr	Minor Arterial	32	1,473	262	5,499	63	80	60 69		Good		12 69
1713	Andover Park E	Costco Dr	S 180th St	Minor Arterial	32	1,022	182	3,815	70	66	60 69		Good		12 68
2062	Andover Park W	Tukwila Pkwy	Southcenter Mall	Minor Arterial	32	327	58	1,221	66	61	60 65	Mod	Good	26	8 64
1984	Andover Park W	Southcenter Mall	Baker Blvd	Minor Arterial	32	843	150	3,147	63	71	60 66	Mod	Good	27	10 65
1902	Andover Park W	Baker Blvd	Strander Blvd	Minor Arterial	32	871	155	3,252	83	64	60 77		V Good	6	11 76
1901	Andover Park W	Strander Blvd	Corporate Dr N	Minor Arterial	33	1,852	340	7,130	61	62	60 62		Good	28	11 61
1240	Andover Park W	Corporate Dr N	Corporate Dr S	Minor Arterial	33	518	95	1,994	61	63	60 62		Good		12 61
1983	Andover Park W	Corporate Dr S	Minkler Blvd	Minor Arterial	33	235	43	905	61	48	60 5 7		Fair		14 56
1979	Andover Park W	Minkler Blvd	Minkler Blvd	Minor Arterial	33	51	9	196	65	41	60 57		Fair		15 56
1980	Andover Park W Andover Park W	Minkler Blvd Upland Dr	Upland Dr	Minor Arterial	33 35	421 756	77 147	1,621 3,087	64 61	58 73	60 62		Good Good	25 23	11 61 16 65
1237 1982	Andover Park W	Midland Dr	Midland Dr Triland Dr	Collector Minor Arterial	30	845	141	2,958	80	79	30 79			16	4 79
1238	Andover Park W	Triland Dr	S 180th St	Minor Arterial	30	620	103	2,170	66	64	60 66		Good	23	11 65
1694	B Line	Southcenter Pkwy	C Line	Local	20	271	30	632	63	40	60 55		Fair	32	5 54
1042	Baker Blvd	Andover Park W	Andover Park E	Local	20	1,080	120	2,520	42	66	60 50		Marginal		17 49
1102	Baker Blvd	Andover Park E	Christensen Rd	Local	20	343	38	800	47	45	60 47	Mod	Marginal		12 46
1632	Beacon Ave S	S Ryan Way	S 107th St	Local	22	943	115	2,420	57	52	60 55	Mod	Fair	32	10 54
1838	Beacon Ave S	S 107th St	S 109th St	Local	22	711	87	1,825	100	90	60 97	Mod	Excellent	t 0	0 96
1751	Boeing Access Rd	East Marginal Way S	Boeing Access Rd	Principal Arterial		592	145	3,039	67	64	60 66		Good	25	8 65
1752	Boeing Access Rd	East Marginal Way S	DS@220E East Marginal Way S	Principal Arterial		220	54	1,129	32	56	30 40			58	10 39
1753	Boeing Access Rd	DS@220E East Marginal Way S	Airport Way S	Principal Arterial		113	28	580	44	60	60 49		Marginal		18 49
1977	Boeing Access Rd	Airport Way S	Airport Way S	Principal Arterial		330	81	1,694	38	71	60 49		Marginal		20 48
1976	Boeing Access Rd	East Marginal Way S	East Marginal Way S	Principal Arterial		176	43	903	82	63	60 76		V Good		4 75
1749 1978	Boeing Access Rd	Airport Way S	Airport Way S	Principal Arterial		224 377	55 92	1,150 1,935	48 45	73 75	60 57		Fair Fair	36 40	16 56 14 54
1754	Boeing Access Rd Boeing Access Rd	Airport Way S I-5 Ramp	Airport Way S Airport Way S	Principal Arterial Principal Arterial		168	92 41	862	45 57	75 59	60 58		Fair	27	14 54
1754	Boeing Access Rd	I-5 Ramp	I-5 Ramp	Principal Arterial		371	91	1,904	42	65	60 50		Fair		17 49
1755	Boeing Access Rd	I-5 Ramp	Martin L King Jr Ramp	Principal Arterial		395	92	1,936	40	76	60 52		Fair		24 52
1975	Boeing Access Rd	Martin L King Jr Ramp	Martin L King Jr Way S	Principal Arterial		292	71	1,499	33	43	60 36		Poor		18 35
1772	C Line	UnNamed-01534	Southcenter Pkwy	Local	20	730	81	1,703	63	59	60 62		Good		11 61

Street In	ventory and Condition	Summary - Sorted by Street Nan	ne						Cond	ditior	Summ	ary			
Easy Str	neet Analysis				(ft)	(#)		yd2)	Index (SDI)	k (RI)	(SI) Index (PCI)			oad Assoc Distress Deducts (LADD)	ad Distress Deducts (NLAD) Segment PCI (CPCI)
GISID	On Street	From Street	To Street	FunCL	Pavement Width (ft)	Pavement Length (ft)	Add Area (yd2)	Pavement Area (yd2)	Surface Distress Index (SDI)	Roughness Index (RI)	Structural Index (SI) Pavement Cndtn Index (PCI)	Strength Rating	Condition Rating	Load Assoc Dist	Non-Load Distress Current Segment P
1698	Cascade Ave S	Riverside Dr	Todd Blvd	Local	20	864	96	2,016	66	60	60 64	Mod	Good	21	12 64
1697	Cascade Ave S	Todd Blvd	S Glacier St	Local	20	738	82	1,722	76	73	60 75	Mod	V Good	14	9 75
1734	Christensen Rd	NORTH END	Baker Blvd	Local	20	1,253	139	2,924	49	61	60 53		Fair	35	17 52
1175	Christensen Rd	Baker Blvd	Christensen Rd	Local	19	249	26	552	60	45	60 55	Mod	Fair	31	8 55
1395	Christensen Rd	Christensen Rd	Christensen Rd	Local	19	82	9	182	90	70	60 83	Mod	V Good	4	6 83
1177	Christensen Rd	Christensen Rd	Christensen Rd	Local	19	82	9	182	87	68	60 80	Mod	V Good	9	4 80
1176	Christensen Rd	Strander Blvd	Christensen Rd	Local	19	802	85	1,778	56	34	60 49	Mod	Marginal		12 48
1150	Corporate Dr N	WEST END	Andover Park W	Local	19	424	45 22	940	86 84	67 65	60 80 60 78		V Good V Good	9	5 79 3 77
1149 1577	Corporate Dr N Corporate Dr S	Corporate Dr N Corporate Dr S	Corporate Dr N Corporate Dr S	Local Local	19 20	206 203	23	457 474	69	46	60 62	Mod	Good	13 16	3 77 15 61
1249	Corporate Dr S	WEST END	Andover Park W	Local	20	427	47	996	79	59	60 72		V Good	10	11 72
1001	Costco Dr	Andover Park E	DS@280E Andover Park E	Local	20	280	31	653	61	43	60 55	Mod	Fair		11 55
1162	East Marginal Way S	CITY LIMIT	S 81st PI	Principal Arterial		723	177	3,711	56	75		Weak			10 61
1428	East Marginal Way S	S 81st PI	S 87th PI	Principal Arterial		2,601	636	13,352	64	78	60 69	Mod	Good	24	11 68
1997	East Marginal Way S	S 87th PI	S 90th St	Principal Arterial	44	524	128	2,690	70	79	30 73	Weak	V Good	23	6 73
1157	East Marginal Way S	S 90th St	S 94th PI	Principal Arterial		1,667	407	8,557	64	76	30 68			29	7 67
1531	East Marginal Way S	S 94th PI	S 96th PI	Principal Arterial		718	176	3,686	69	72	60 70	Mod	V Good	23	8 69
1882	East Marginal Way S	S 96th Pl	S Norfolk St	Principal Arterial		1,742	426	8,942	44	72	60 54	Mod	Fair		15 53
1528 1874	East Marginal Way S East Marginal Way S	S Norfolk St S 102nd St	S 102nd St S 104th St	Principal Arterial Principal Arterial		386 587	94 143	1,981 3,013	52 54	81 83	60 62 30 64		Good Good	31 33	18 61 13 63
1165	East Marginal Way S	S 104th St	DS@507S S 104th St	Principal Arterial		507	124	2,603	55	74	60 61	Mod	Good	32	13 61
1881	East Marginal Way S	DS@507S S 104th St	Boeing Access Rd	Principal Arterial		314	77	1,612	63	80	30 69			27	10 69
1864	East Marginal Way S	East Marginal Way S	Tukwila Intl Blvd	Local	19	747	79	1,656	54	76	30 61			36	10 61
1877	East Marginal Way S	Boeing Access Rd	Tukwila Intl Blvd	Principal Arterial	43	242	58	1,214	57	76	30 63	Weak	Good	35	8 63
1009	East Marginal Way S	Tukwila Intl Blvd	Tukwila Intl Blvd	Principal Arterial	44	82	20	421	62	65	60 63	Mod	Good	30	8 63
1423	East Marginal Way S	Tukwila Intl Blvd	Boeing Access Rd	Principal Arterial		52	13	267	93	79	60 88	Mod	Excellent		2 88
1008	East Marginal Way S	Boeing Access Rd	Tukwila Intl Blvd	Minor Arterial	30	197	33	690	66	53	60 61	Mod	Good	30	4 61
1883	East Marginal Way S	Tukwila Intl Blvd	Boeing Access Rd	Local	30	309	52	1,082	53	48	60 52	Mod	Fair		14 51
1010 1427	East Marginal Way S East Marginal Way S	Tukwila Intl Blvd S 112th St	S 112th St S 115th St	Minor Arterial Minor Arterial	30 30	1,358 713	226 119	4,753 2,496	44 45	64 70	60 50 60 53		Fair Fair	43 38	14 50 17 53
1869	East Marginal Way S	S 115th St	S 116th St	Minor Arterial	30	671	112	2,490	43	69	60 52		Fair		17 51
1687	East Marginal Way S	S 116th St	Interurban Ave S	Minor Arterial	30	392	65	1,372	38	69	60 49	Mod	Marginal		13 48
2092	East Marginal Way S	Interurban Ave S	SR 599	Minor Arterial	30	312	52	1,092	53	30	60 45	Mod	Marginal		11 45
2086	East Marginal Way S	SR 599	S 120th PI	Minor Arterial	30	603	101	2,111	70	62	60 67	Mod	Good	22	8 67
1391	East Marginal Way S	S 120th PI	S 124th St	Minor Arterial	30	1,254	209	4,389	68	79	30 71			26	6 71
1875	East Marginal Way S	S 124th St	S 126th St	Minor Arterial	30	899	150	3,147	70	76	60 72		V Good	22	8 72
1160	East Marginal Way S	S 126th St	S 128th St	Minor Arterial	30	353	59	1,236	55	72	60 60	Mod	Good	29	16 60
1868	East Marginal Way S	S 128th St	S 128th St	Minor Arterial	30	170	28	595	49	64	60 54	Mod	Fair		20 54
1866 1158	East Marginal Way S East Marginal Way S	S 128th St S 130th St	S 130th St 40th Ave S	Minor Arterial Minor Arterial	30 30	519 113	87 19	1,817 396	56 57	60 48	60 58	Mod Mod	Fair Fair	30 29	14 57 14 54
1426	East Marginal Way S	40th Ave S	S 133rd St	Minor Arterial	30	893	149	3,126	56	56	60 56	Mod	Fair		13 56
1508	Evans Black Dr	WEST END	Andover Park E	Local	30	567	95	1,985	88	69	60 81	Mod	V Good	9	4 81
1954	Fort Dent Way	Interurban Ave S	Starfire Way	Local	29	688	111	2,328	71	54	60 65	Mod	Good	22	7 65
1510	Fun Center Way	Interurban Ave S	DS@447E Interurban Ave S	Local	22	447	55	1,147	80	61	60 73		V Good	14	6 73
1364	Fun Center Way	DS@447E Interurban Ave S	SW Grady Way	Local	20	112	12	261	55	34	60 48	Mod	Marginal	30	15 48
1696	Gateway Dr	Interurban Ave S	S 133rd St	Local	21	2,527	295	6,191	74	71	60 73	Mod	V Good	19	6 73

Street Inv	eet Inventory and Condition Summary - Sorted by Street Name							Con	ditior	Summ	ary				
T asy Str	eet Analysis				iidth (ft)	ength (ft)	d2)	rea (yd2)	ress Index (SDI)	Index (RI)	tructural Index (SI) avement Cndtn Index (PCI)	ting	ating	oad Assoc Distress Deducts (LADD)	ad Distress Deducts (NLAD) Segment PCI (CPCI)
GISID	On Street	From Street	To Street	Funct	Pavement Width (ft)	Pavement Length (ft)	Add Area (yd2)	Pavement Area (yd2)	Surface Distress Index	Roughness Index (RI)	Structural Index (SI) Pavement Cndtn Ind	Strength Rating	Condition Rating	Load Assoc	Non-Load Distress Current Segment Po
														_	
1494 1405	Glacier St Glacier St	WEST END Olympic Ave S	Olympic Ave S Cascade Ave S	Local Local	27 26	250 609	38 88	788 1,847	88 79	69 77	60 8 1		V Good V Good	8 14	4 81 6 78
1551	Grady Way	Interurban Ave S	Interurban Ave S	Local	27	154	23	485	47	57	60 51		Fair	38	15 50
1346	Grady Way	Interurban Ave S	Fun Center Way	Minor Arterial	45	117	29	614	55	59	60 56		Fair		11 56
1002	Industry Dr	Andover Park E	DS@355E Andover Park E	Local	22	355	43	911	68	65	60 6 7		Good		12 67
1994	Interurban Ave S	East Marginal Way S	40th Ave S	Minor Arterial	30	1,013	169	3,546	47	78	30 57		Fair	38	15 57
1159	Interurban Ave S	40th Ave S	Macadam Rd S	Minor Arterial	30	2,868	478	10,038	45	84	60 58	Mod	Fair	36	19 57
1998	Interurban Ave S	Macadam Rd S	Gateway Dr	Minor Arterial	30	997	166	3,490	47	66	60 53	Mod	Fair	36	17 52
1218	Interurban Ave S	Gateway Dr	SR 599 Ramp	Minor Arterial	30	500	83	1,750	59	80	60 66	Mod	Good	27	14 65
1164	Interurban Ave S	SR 599 Ramp	S 133rd St	Minor Arterial	30	284	47	994	68	69	60 69		Good		11 68
1879	Interurban Ave S	S 133rd St	SR 599 Ramp	Minor Arterial	30	276	46	966	60	67	60 63		Good	27	11 62
1161	Interurban Ave S	SR 599 Ramp	48th Ave S	Minor Arterial	30	767	128	2,685	66	71	60 68		Good		11 67
1559	Interurban Ave S	48th Ave S	I-5 Ramp	Principal Arterial		127	39	815	61	36	60 53		Fair		15 52
1873	Interurban Ave S	I-5 Ramp	I-5 Ramp	Principal Arterial		573	175	3,677	52	59	60 54		Fair	35	13 54
1878	Interurban Ave S	I-5 Ramp	56th Ave S	Principal Arterial		607	185	3,895	55	65	60 58		Fair		15 57
1871 1880	Interurban Ave S Interurban Ave S	56th Ave S S 140th St	S 140th St 58th Ave S	Principal Arterial Principal Arterial		2,142 829	655 253	13,745 5,319	42 49	72 63	30 52		Fair Fair	47 36	11 51 15 53
1167	Interurban Ave S	58th Ave S	S 143rd St	Principal Arterial		615	191	4,018	49	59	60 53		Fair		17 52
1011	Interurban Ave S	S 143rd St	S 143rd Pl	Principal Arterial		339	105	2,215	63	71	60 66		Good	27	11 65
1424	Interurban Ave S	S 143rd Pl	S 144th St	Principal Arterial		344	107	2,247	91	90	60 90		Excellent		4 90
1870	Interurban Ave S	S 144th St	S 147th St	Principal Arterial		916	285	5,985	82	79	60 81		V Good	14	5 80
1865	Interurban Ave S	S 147th St	S 149th St	Principal Arterial		604	188	3,946	79	67	60 75		V Good	16	6 74
1999	Interurban Ave S	S 149th St	I-405 Ramp	Principal Arterial		1,953	608	12,760	70	71	60 7 1	Mod	V Good	22	7 70
1392	Interurban Ave S	I-405 Ramp	DS@490E I-405 Ramp	Principal Arterial	56	490	152	3,201	47	51	60 48	Mod	Marginal	44	9 47
1867	Interurban Ave S	DS@490E I-405 Ramp	Fun Center Way	Principal Arterial	56	125	39	817	64	58	60 62	Mod	Good	28	8 61
1996	Interurban Ave S	Interurban Ave S	Southcenter Blvd	Local	22	387	47	993	57	58	60 5 7		Fair		11 57
1562	Interurban Ave S	Fun Center Way	SW Grady Way	Principal Arterial		231	71	1,482	56	50	60 5 4		Fair	32	12 53
1872	Interurban Ave S	SW Grady Way	West Valley Hwy	Principal Arterial		141	43	905	43	60	60 48		Marginal		19 48
1876	Interurban Ave S	West Valley Hwy	SW Grady Way	Local	22	164	20	421	50	39	60 46		Marginal		18 46
1839 1397	Interurban PI S Klickitat Dr	40th Ave S 51st Ave S	SE END 53rd Ave S	Local Minor Arterial	22 30	478 877	58 146	1,227 3,070	81 71	62 71	60 75		V Good V Good	15 25	4 74 4 70
1248	Klickitat Dr	53rd Ave S	I-5 Ramp	Minor Arterial	30	1,089	182	3,812	55	83	30 65			34	11 64
1398	Klickitat Dr	I-5 Ramp	Southcenter Pkwy	Minor Arterial	30	1,052	175	3,682	54	63	60 57		Fair	30	14 56
1375	Longacres Way	West Valley Hwy	Nelsen PI	Local	22	400	49	1,027	85	66	60 78		V Good	9	6 78
1948	Macadam Rd S	Interurban Ave S	SR 599	Collector	35	123	24	502	48	28	60 41		Marginal		17 41
1316	Macadam Rd S	SR 599	SR 599	Collector	35	104	20	425	74	63	60 70		V Good	19	7 70
1947	Macadam Rd S	SR 599	S 128th St	Collector	35	192	37	784	75	55	60 68	Mod	Good	20	5 68
1312	Macadam Rd S	S 128th St	S 130th St	Collector	35	271	53	1,107	87	68	60 8 1	Mod	V Good	8	4 80
1495	Macadam Rd S	S 130th St	S 131st PI	Collector	35	531	103	2,168	79	71	60 76		V Good	17	5 76
1314	Macadam Rd S	S 131st PI	S 133rd St	Collector	35	534	104	2,181	73	63	60 70		Good	22	5 69
1946	Macadam Rd S	S 133rd St	43rd Ave S	Collector	35	338	66	1,380	69	63	60 67		Good	24	7 67
1317	Macadam Rd S	43rd Ave S	S 136th St	Collector	35	1,710	333	6,983	45	59	60 50		Marginal		18 49
1944	Macadam Rd S	S 136th St	S 137th St	Collector	34	308	58	1,222	47	56	60 50		Marginal		15 49
1315	Macadam Rd S	S 137th St	S 138th St	Collector	34	783	148	3,106	48	58	60 5 1		Fair		15 51
1945	Macadam Rd S	S 138th St	S 144th St	Collector	34	1,997	377	7,921	49	64	60 5 4		Fair		14 53
1098	Macadam Rd S	S 144th St	S 149th Ln	Collector	34	1,662	314	6,593	61	69	3U 6 4	Weak	Good	32	7 63

Street Inventory and Condition Summary - Sorted by Street Name										Condition Summary								
Tasy S	ns treet Analysis					•		(ex (SDI)	(r	ex (PCI)			s Deducts (LADD)	Deducts (NLAD) CI (CPCI)			
GISID	On Street	From Street	To Street	FunCL	Pavement Width (ft)	Pavement Length (ft)	Add Area (yd2)	Pavement Area (yd2)	Surface Distress Index (SDI)	Roughness Index (RI)	Structural Index (SI) Pavement Cndtn Index (PCI)	Strength Rating	Condition Rating	Load Assoc Distress Deducts (LADD)	Non-Load Distress Deducts Current Segment PCI (CPCI)			
2064	Macadam Rd S	S 149th Ln	S 150th St	Collector	34	195	37	774	62	61	60 62	2 Mod	Good	29	9 61			
1943	Macadam Rd S	S 150th St	S 152nd St	Collector	34	867	164	3,439	44	65	60 5 1		Fair		21 51			
1313	Macadam Rd S	S 152nd St	Southcenter Blvd	Collector	34	1,451	274	5,756	54	73	60 60		Good	27	19 59			
1318	Martin L King Jr Way S	CITY LIMIT	S 104th PI	Principal Arterial		114	35	745	75	72	60 74		V Good	14	10 74			
1812	Martin L King Jr Way S	Boeing Access Rd	I-5 Ramp	Principal Arterial	56	163	51	1,065	60	54	60 58	8 Mod	Fair	28	12 57			
1319	Martin L King Jr Way S	I-5 Ramp	I-5 Ramp	Principal Arterial	56	1,943	604	12,694	47	77	30 5 7	7 Weak	Fair	38	15 56			
1813	Martin L King Jr Way S	I-5 Ramp	I-5 Ramp	Principal Arterial		586	182	3,829	52	87		l Weak		35	13 64			
1148	Martin L King Jr Way S	I-5 Ramp	CITY LIMIT	Principal Arterial		1,935	602	12,642	53	87		Weak			15 64			
1593	Midland Dr	WEST END	Andover Park W	Local	22	900	110	2,310	39	50	60 43		Marginal		18 42			
1614	Military Rd S	S 158th St	EAST END	Local	25	187	26	545	68	46	60 61		Good	17	4 60			
1355	Minkler Blvd	Southcenter Pkwy	Bauch Dr	Collector	35	1,314	256	5,366	58	62	60 60		Fair	30	9 59			
2019 1365	Minkler Blvd Minkler Blvd	Bauch Dr Andover Park W	Andover Park W Andover Park E	Collector Collector	35 33	672 903	131 166	2,744 3,477	65 67	66 59	60 65		Good	24 21	11 65 12 64			
1355	Minkler Blvd	Andover Park W Andover Park E	Industry Dr	Local	33 22	903 585	72	1,502	30	45	60 35		Good Poor	51	12 04			
1372	Minkler Blvd	Industry Dr	EAST END	Local	23	598	76	1,605	51	52	60 52		Fair	31	17 51			
1378	Nelsen Pl	S 156th St	Longacres Way	Local	24	571	76	1,599	60	37	60 52		Fair	34	6 52			
1707	Norfolk St	East Marginal Way S	CITY LIMIT	Local	25	737	102	2,150	56	71	60 6 1		Good	33	11 60			
1834	Olympic Ave S	Riverside Dr	Todd Blvd	Local	25	865	120	2,523	75	72	60 74		V Good	16	9 74			
1633	Olympic Ave S	Todd Blvd	S Glacier St	Local	22	853	104	2,189	70	70	60 70) Mod	V Good	17	13 69			
1371	Orillia Rd S	S 188th St	S 200th St	Principal Arterial	56	3,525	1,097	23,030	36	79	30 50) Weak	Fair	46	16 49			
1645	Orillia Rd S	S 200th St	S 204th St	Principal Arterial	56	1,602	498	10,466	52	80	60 6 1	l Mod	Good	31	13 61			
1823	Pamela Dr	57th Ave S	NE END	Local	19	405	43	898	89	69	60 82	2 Mod	V Good	8	4 82			
1664	Pamela Dr	Pamela Dr	Pamela Dr	Local	19	178	19	395	90	70	60 83	8 Mod	V Good	4	6 83			
1213	Riverside Dr	Olympic Ave S	Cascade Ave S	Local	19	480	51	1,064	73	87	30 78				7 78			
1420	Ryan St	Beacon Ave S	51st Ave S	Minor Arterial	45	349	87	1,832	46	57	60 50		Marginal		20 49			
1827	Ryan Way	Martin L King Jr Way S	47th Ave S	Minor Arterial	45	978	245	5,135	40	60	60 47		Marginal		19 46			
1377	Ryan Way	47th Ave S	S 107th St	Minor Arterial	45	227	57	1,192	43	64	60 50		Marginal		21 49			
1826	Ryan Way	S 107th St	Beacon Ave S	Minor Arterial	45	1,126	282	5,912	36	67	60 46		Marginal		21 46			
1622 1621	Slade Way Slade Way	S 160th St 53rd PI S	53rd PI S 54th Ave S	Local Local	26 25	837 314	121 44	2,539 916	62 48	58 40	60 6 1		Good Marginal	23 35	15 60 17 45			
1818	Southcenter Blvd	International Blvd	38th Ln S	Minor Arterial	45	838	210	4,400	66	61	60 6 4		Good	27	7 64			
1342	Southcenter Blvd	38th Ln S	40th Ave S	Minor Arterial	42	432	101	2.117	53	63	60 56		Fair	30	6 56			
1413	Southcenter Blvd	40th Ave S	40th Ave S	Minor Arterial	42	145	34	711	62	60	60 6 1		Good	31	8 60			
1168	Southcenter Blvd	40th Ave S	42nd Ave S	Minor Arterial	44	566	138	2,905	56	60	60 57		Fair	37	7 57			
1340	Southcenter Blvd	42nd Ave S	51st Ave S	Minor Arterial	44	2,694	659	13,829	74	73	60 74	l Mod	V Good	21	6 73			
2025	Southcenter Blvd	51st Ave S	52nd Ave S	Minor Arterial	45	371	93	1,948	80	78	60 80) Mod	V Good	14	6 79			
1337	Southcenter Blvd	52nd Ave S	53rd Ave S	Minor Arterial	45	301	75	1,580	75	74	60 75	5 Mod	V Good	18	6 75			
2043	Southcenter Blvd	53rd Ave S	I-5 Ramp	Minor Arterial	45	171	43	898	59	54	60 57		Fair	30	12 56			
2042	Southcenter Blvd	I-5 Ramp	I-5 Fwy	Minor Arterial	45	69	17	362	89	82	60 87		Excellent		2 86			
2041	Southcenter Blvd	I-5 Fwy	I-5 Fwy	Minor Arterial	56	38	12	248	83	100			Excellent		6 88			
2039	Southcenter Blvd	I-5 Fwy	I-5 Fwy	Minor Arterial	41	99	23	474	69	81	60 73		V Good		10 73			
2037	Southcenter Blvd	I-5 Fwy	I-5 Ramp	Minor Arterial	41	68	15	325	64	84	30 71			26	9 70			
2035	Southcenter Blvd	I-5 Ramp	I-5 Fwy	Minor Arterial	41	76	17	364	98	89	60 95		Excellent		2 95			
2031	Southcenter Blvd	I-5 Ramp	I-405 Ramp	Minor Arterial	40	362	80	1,689	52	76	30 60		Fair	37	11 59			
1348 1347	Southcenter Blvd Southcenter Blvd	I-405 Ramp	I-405 Ramp	Principal Arterial		452 398	113 100	2,373	57 84	76 72		Weak Mod	Good V Good	33 12	10 63 4 80			
1347	Southcenter biva	I-405 Ramp	DS@398E I-405 Ramp	Principal Arterial	40	390	100	2,090	04	12	60 80	iviod	v G000	12	4 50			

Street Inventory and Condition Summary - Sorted by Street Name												Condition Summary						
Easy S	ns. treet Analysis					a		0	lex (SDI)	(I)	dex (PCI)			s Deducts (LADD)	Deducts (NLAD) CI (CPCI)			
GISID	On Street	From Street	To Street	FunCL	Pavement Width (ft)	Pavement Length (ft)	Add Area (yd2)	Pavement Area (yd2)	Surface Distress Index	Roughness Index (RI)	Structural Index (SI) Pavement Cndtn Index (PCI)	Strength Rating	Condition Rating		Non-Load Distress Deducts Current Segment PCI (CPCI)			
1821	Southcenter Blvd	DS@398E I-405 Ramp	61st Ave S	Principal Arterial	44	779	190	3,999	87	79	60 84	Mod	V Good	9	5 84			
1416	Southcenter Blvd	61st Ave S	62nd Ave S	Principal Arterial		469	115	2,408	86	68	60 80		V Good	9	4 80			
1820	Southcenter Blvd	62nd Ave S	65th Ave S	Principal Arterial		1,142	279	5,862	82	78	60 81		V Good	14	4 80			
1629	Southcenter Blvd	65th Ave S	66th Ave S	Principal Arterial		587	143	3,013	79	60	60 73		V Good	16	5 72			
1686	Southcenter Blvd	66th Ave S	I-405 Ramp	Local	25	649	90	1,893	79	63	60 74	Mod	V Good	15	6 73			
1415	Southcenter Blvd	I-405 Ramp	I-405 Ramp	Local	26	60	9	182	81	82	60 82	Mod	V Good	15	4 81			
1554	Southcenter Blvd	I-405 Ramp	Interurban Ave S	Local	27	77	12	243	91	85	60 89		Excellent		9 89			
1507	Southcenter Blvd	Interurban Ave S	Interurban Ave S	Local	25	261	36	761	69	53	60 64		Good	24	7 63			
1769	Southcenter Pkwy	Southcenter Mall	I-5 Ramp	Minor Arterial	45	622	156	3,266	77	78	30 77			19	4 77			
1767	Southcenter Pkwy	I-5 Ramp	I-5 Ramp	Minor Arterial	45	162	41	851	76	59	60 70		V Good	20	4 70			
1770	Southcenter Pkwy	I-5 Ramp	Klickitat Dr	Minor Arterial	45	383	96	2,011	98	89	60 95		Excellent		1 95			
1768 1776	Southcenter Pkwy	Klickitat Dr	I-5 Ramp Strander Blvd	Minor Arterial	45 45	361 218	90 55	1,895 1,145	72 62	80 66	30 74 60 64		V Good Good	25 29	4 74 9 63			
1776	Southcenter Pkwy Southcenter Pkwy	I-5 Ramp Strander Blvd	Strander Blvd S 168th St	Minor Arterial Minor Arterial	45 45	1,313	328	6,893	60	62	60 61	Mod	Good		13 60			
1773	Southcenter Pkwy	S 168th St	Wig Blvd	Minor Arterial	45	666	167	3,497	62	73	60 66		Good		16 65			
1691	Southcenter Pkwy	Wig Blvd	Minkler Blvd	Minor Arterial	45	599	150	3,145	59	64	60 61	Mod	Good		13 60			
2063	Southcenter Pkwy	Minkler Blvd	S 180th St	Minor Arterial	45	2,716	679	14,259	77	73	60 76		V Good	19	4 76			
1467	Southcenter Pkwy	S 180th St	A Line	Minor Arterial	45	900	225	4,725	83	78	60 81		V Good	14	3 81			
1472	Southcenter Pkwy	A Line	Segale Park C Dr	Minor Arterial	45	613	153	3,218	83	93	60 86		Excellent	12	5 86			
1693	Southcenter Pkwy	Segale Park C Dr	B Line	Minor Arterial	45	977	244	5,129	86	89	60 87	Mod	Excellent	12	2 87			
1695	Southcenter Pkwy	B Line	C Line	Minor Arterial	45	650	163	3,413	87	91	60 88	Mod	Excellent	11	2 88			
1764	Southcenter Pkwy	C Line	S 19000 Block	Minor Arterial	45	770	193	4,043	89	91	60 89	Mod	Excellent	9	3 89			
1773	Southcenter Pkwy	S 19000 Block	S 19400 Block	Minor Arterial	45	1,030	258	5,408	86	90	60 88	Mod	Excellent	12	2 87			
1778	Southcenter Pkwy	S 19400 Block	UnNamed-01543	Minor Arterial	45	1,150	288	6,038	87	88	60 87		Excellent		2 87			
1343	Southcenter Pkwy	UnNamed-01543	UnNamed-01545	Minor Arterial	45	540	135	2,835	96	91	60 94		Excellent		1 93			
1352	Southcenter Pkwy	UnNamed-01545	S 200th St	Minor Arterial	45	752	188	3,948	78	73	30 76			19	3 76			
1705	Starfire Way	DS@1178E Starfire Way	Fort Dent Way	Local	27	1,353	203	4,262	91	73	60 85		V Good	5	4 85			
1303	Strander Blvd	Southcenter Pkwy	61st PI S	Minor Arterial	47	1,350	353	7,403	55	58	60 56		Fair	37	8 56			
1307 1305	Strander Blvd Strander Blvd	61st PI S Andover Park W	Andover Park W Andover Park E	Minor Arterial Minor Arterial	47 48	662 1,077	173 287	3,630 6,031	53 60	62 61	30 56 60 60		Fair Good	43 30	4 55 11 59			
1306	Strander Blvd	Andover Park E	Christensen Rd	Minor Arterial	48	771	206	4,318	59	60	60 60		Fair		10 59			
1304	Strander Blvd	Christensen Rd	West Valley Hwy	Minor Arterial	48	847	226	4,743	71	49	60 64		Good		12 63			
1302	Strander Blvd	West Valley Hwy	EAST END	Local	26	239	35	725	34	28	60 32		Poor		14 31			
1290	Todd Blvd	Olympic Ave S	Cascade Ave S	Local	32	642	114	2,397	61	64	60 62	Mod	Good	32	8 61			
1291	Todd Blvd	Cascade Ave S	West Valley Hwy S	Local	25	353	49	1,030	63	67	60 64	Mod	Good		10 64			
1384	Treck Dr	WEST END	Andover Park E	Local	25	543	75	1,584	56	61	60 58	Mod	Fair	30	14 57			
1845	Treck Dr	Treck Dr	Treck Dr	Local	27	204	31	643	75	54	60 68	Mod	Good	15	10 67			
1129	Triland Dr	WEST END	Andover Park W	Local	27	1,174	176	3,698	48	45	60 47		Marginal		12 46			
1104	Tukwila International Blvd	SR 99 Ramp	Tukwila Intl Blvd	Principal Arterial		2,111	657	13,792	77	86	30 80			20	3 79			
2002	Tukwila International Blvd	Tukwila Intl Blvd	S 132nd St	Principal Arterial		302	94	1,973	88	90	60 89		Excellent		2 89			
2124	Tukwila Intl Blvd	DS@91S East Marginal Way S	DS@509S East Marginal Way S	Principal Arterial		418	130	2,731	55	69	30 60			36	8 59			
1082	· · · · · · · · · · · · · · · · · · ·		Local	25	436	61	1,272	49	77	30 58				11 57				
1083	Tukwila Intl Blvd	DS@509S East Marginal Way S	Tukwila Intl Blvd	Principal Arterial		146	45	954	63	80	30 69			30	6 68			
1084	Tukwila Intl Blvd DS@193S East Marginal Way S Tukwila Intl Blvd		Local	32	209	37	780	56 44	58	60 57		Fair		12 56				
1075 1081	Tukwila Intl Blvd Tukwila Intl Blvd	DS@608S East Marginal Way S Tukwila Intl Blvd	S 112th St East Marginal Way S	Principal Arterial Principal Arterial		1,027 144	251 45	5,272 941	44 79	75 60	60 54 60 73		Fair V Good	36 17	20 54 4 72			

•	entory and Condition	Summary - Sorted by Street N	ame					_	Cond	ditior	n Sur	mma	ıry			
Tasy Stra	eet Analysis	From Street	To Street	Funct	Pavement Width (ft)	Pavement Length (ft)	Add Area (yd2)	Pavement Area (yd2)	Surface Distress Index (SDI)	Roughness Index (RI)	Structural Index (SI)	Pavement Cndtn Index (PCI)	Strength Rating	Condition Rating	Load Assoc Distress Deducts (LADD)	Non-Load Distress Deducts (NLAD) Current Segment PCI (CPCI)
1074	Tukwila Intl Blvd	East Marginal Way S	DS@193S East Marginal Way S	Local	22	193	24	495	73	53	60	66	Mod	Good		7 66
1073	Tukwila Intl Blvd	S 112th St	SR 99 Ramp	Principal Arterial		1,193	371	7,794	45	70	60	54	Mod	Fair		16 53
1079	Tukwila Intl Blvd	SR 99 Ramp	SR 599 Ramp	Principal Arterial		107	33	699	64	61	60		Mod	Good		12 62
1078	Tukwila Intl Blvd	SR 599 Ramp	SR 99 Ramp	Principal Arterial		196	61	1,281	52	76	60		Mod	Good		13 60
1077	Tukwila Intl Blvd	SR 99 Ramp	SR 99	Principal Arterial		230	72	1,503	45	63	60	51	Mod	Fair		14 50
1076	Tukwila Intl Blvd	SR 99	SR 599	Principal Arterial		192	60	1,254	63	85	30		Weak			10 70
1715	Tukwila Intl Blvd	SR 599	S 116th Way	Principal Arterial		121	38	791	53	41	60	49	Mod	Marginal		15 49
1080	Tukwila Intl Blvd	S 116th Way	SR 99	Principal Arterial		634	197	4,142	59	70	30		Weak	Good		8 62
1429	Tukwila Intl Blvd	SR 99	SR 99 Ramp	Principal Arterial		1,468	457	9,591	58	94	30		Weak			13 69
2003	Tukwila Intl Blvd	S 130th St	35th Ave S	Principal Arterial		346	108	2,261	71	71	60	71	Mod	V Good		6 71
2010	Tukwila Intl Blvd	S 132nd St	37th Ave S	Principal Arterial		604	188	3,946	83	78	60		Mod	V Good		3 81
2009	Tukwila Intl Blvd	37th Ave S	S 139th St	Principal Arterial		2,015	627	13,165	82	86	60	83	Mod	V Good		3 83
1438	Tukwila Intl Blvd	S 139th St	S 140th St	Principal Arterial		340	106	2,221	62	81	30		Weak	Good		10 68
1887	Tukwila Intl Blvd	S 140th St	S 141st St	Principal Arterial		238	74	1,555	57	78	30		Weak	Good		11 63
1105	Tukwila Intl Blvd	S 141st St	S 141st St	Principal Arterial	56	127	40	830	64	79	60		Mod	Good		11 69
1672	Tukwila Intl Blvd	S 141st St	S 142nd St	Principal Arterial	56	344	107	2,247	68	87	30	74	Weak		25	7 74
1886	Tukwila Intl Blvd	S 142nd St	S 144th St	Principal Arterial	56	679	211	4,436	65	73	30		Weak	Good		4 67
1885	Tukwila Intl Blvd	S 144th St	S 146th St	Principal Arterial		699	217	4,567	48	75	30		Weak	Fair		5 56
1884	Tukwila Intl Blvd	S 146th St	S 148th St	Principal Arterial		699	217	4,567	61	72	60		Mod	Good		9 64
1439	Tukwila Intl Blvd	S 148th St	S 150th St	Principal Arterial	56	700	218	4,573	55	79	30	63	Weak	Good	33	12 62
1437	Tukwila Intl Blvd	S 150th St	S 152nd St	Principal Arterial	56	704	219	4,599	35	68	30		Weak	Marginal		10 45
1054	Tukwila Pkwy	Southcenter Mall	61st Ave S	Minor Arterial	70	1,193	464	9,743	85	83	60		Mod	V Good	12	3 84
1055	Tukwila Pkwy	61st Ave S	I-405 Ramp	Minor Arterial	65	506	183	3,837	78	74	60	77	Mod	V Good	17	5 76
1056	Tukwila Pkwy	I-405 Ramp	Andover Park W	Minor Arterial	66	574	210	4,420	83	76			Mod	V Good		3 81
1053	Tukwila Pkwy	Andover Park W	Andover Park E	Minor Arterial	68	1,088	411	8,631	86	72	60	81	Mod	V Good	11	3 81
2133	Tukwila Pkwy	Andover Park E	I-405 Ramp	Minor Arterial	67	458	170	3,580	87	68	60	80	Mod	V Good	8	5 80
1746	Upland Dr	WEST END	Andover Park W	Local	20	919	102	2,144	77	61	60	72	Mod	V Good	18	5 71
1394	Wallace St	NW END	CITY LIMIT	Local	26	328	47	995	65	37	60	55	Mod	Fair	21	15 55
1518	West Marginal PI S	CITY LIMIT	S 102nd St	Local	21	2,203	257	5,397	26	65	60	39	Mod	Poor	55	16 38
1292	West Valley Hwy	Interurban Ave S	I-405 Ramp	Principal Arterial	55	556	170	3,568	71	81	30	74	Weak		22	7 74
1295	West Valley Hwy	I-405 Ramp	Longacres Way	Principal Arterial	56	594	185	3,881	86	76	60	83	Mod	V Good	10	4 83
1550	West Valley Hwy	Longacres Way	Strander Blvd	Principal Arterial	56	1,529	476	9,989	79	79	30			V Good	19	3 78
1293	West Valley Hwy	Strander Blvd	S 180th St	Principal Arterial	58	5,933	1,912	40,147	67	85	30	73	Weak	V Good	30	3 72
1294	294 West Valley Hwy S 180th St Todd Blvd		Principal Arterial	60	2,082	694	14,574	67	80	30	71	Weak	V Good	30	3 70	
1498	West Valley Hwy S	Todd Blvd	CITY LIMIT	Principal Arterial	59	975	320	6,711	62	73	30	66	Weak	Good	30	8 65
1665	Wig Blvd	Southcenter Pkwy	Bauch Dr	Local	22	1,325	162	3,401	74	55	60	68	Mod	Good	21	5 67



•	Tukwila, WA nventory and Five Year	Rehabilitation Plan By Segmen	ıt	\$10	50k/Year Rehabilita	tion Plan		rent PCI Date:	7/16/2020 1/1/2021		
Easy S	treet Analysis	From Street	To Street	Year of First Rehab	Segment Rehab Results Rehab Activity Code	Rehab Activity	Avg Unit Rate (\$/yd2)	Segment Pavement Cost (\$)	Segment Total Cost (\$)	Whole Project Cost (\$)	5 Year Post Rehab PCI
1001	Costco Dr	Andover Park E	DS@280E Andover Park E	1	Selected Yr 1 50	FWM + Thick Overlay (> 2.0 - 3.0)	39.50	25,794	25,794	148,521	90
1593	Midland Dr	WEST END	Andover Park W	1	Selected Yr 1 50	FWM + Thick Overlay (> 2.0 - 3.0)	39.50	91,245	91,245	237,316	90
1357	Minkler Blvd	Andover Park E	Industry Dr	1	Selected Yr 1 50	FWM + Thick Overlay (> 2.0 - 3.0)	39.50	59,329	59,329	148,521	90
1372	Minkler Blvd	Industry Dr	EAST END	1	Selected Yr 1 50	FWM + Thick Overlay (> 2.0 - 3.0)	39.50	63,398	63,398	148,521	90
1601	140th St	34th Ave S	37th Ave S	1	Selected Yr 1 50	FWM + Thick Overlay (> 2.0 - 3.0)	39.50	45,899	45,899	202,201	90
1604	140th St	37th Ave S	38th Ave S	1	Selected Yr 1 50	FWM + Thick Overlay (> 2.0 - 3.0)	39.50	38,197	38,197	202,201	90
1484	140th St	38th Ave S	Tukwila Intl Blvd	1	Selected Yr 1 50	FWM + Thick Overlay (> 2.0 - 3.0)	39.50	41,791	41,791	202,201	90
1589	141st St	37th Ave S	Tukwila Intl Blvd	1	Selected Yr 1 50	FWM + Thick Overlay (> 2.0 - 3.0)	39.50	76,314	76,314	202,201	90
1677	144th St	Military Rd S	34th Ave S	1	Selected Yr 1 30	Edge Mill + Thin Overlay (1.5 - 2.0)	23.25	25,970	25,970	133,734	87
2016	144th St	34th Ave S	34th Ln S	1	Selected Yr 1 30	Edge Mill + Thin Overlay (1.5 - 2.0)	23.25	23,529	23,529	133,734	87
2015	144th St	34th Ln S	37th Ave S	1	Selected Yr 1 30	Edge Mill + Thin Overlay (1.5 - 2.0)	23.25	40,292	40,292	133,734	87
1187	144th St	37th Ave S	Tukwila Intl Blvd	1	Selected Yr 1 30	Edge Mill + Thin Overlay (1.5 - 2.0)	23.25	43,943	43,943	133,734	87
1775	Southcenter Pkwy	Strander Blvd	S 168th St	1	Selected Yr 1 30	Edge Mill + Thin Overlay (1.5 - 2.0)	24.00	165,432	165,432	324,840	87
1774	Southcenter Pkwy	S 168th St	Wig Blvd	1	Selected Yr 1 30	Edge Mill + Thin Overlay (1.5 - 2.0)	24.00	83,928	83,928	324,840	87
1691	Southcenter Pkwy	Wig Blvd	Minkler Blvd	1	Selected Yr 1 30	Edge Mill + Thin Overlay (1.5 - 2.0)	24.00	75,480	75,480	324,840	87
1129	Triland Dr	WEST END	Andover Park W	1	Selected Yr 1 50	FWM + Thick Overlay (> 2.0 - 3.0)	39.50	146,071	146,071	237,316	90
1454	200th St	Southcenter Pkwy	CITY LIMIT	2	Selected Yr 2 50	FWM + Thick Overlay (> 2.0 - 3.0)	45.50	427,746	427,746	427,746	90
1420	Ryan St	Beacon Ave S	51st Ave S	2	Selected Yr 2 50	FWM + Thick Overlay (> 2.0 - 3.0)	43.50	79,692	79,692	336,864	91
1827	Ryan Way	Martin L King Jr Way S	47th Ave S	2	Selected Yr 2 50	FWM + Thick Overlay (> 2.0 - 3.0)	43.50	223,373	223,373	275,225	91
1377	Ryan Way	47th Ave S	S 107th St	2	Selected Yr 2 50	FWM + Thick Overlay (> 2.0 - 3.0)	43.50	51,852	51,852	275,225	91
1826	Ryan Way	S 107th St	Beacon Ave S	2	Selected Yr 2 50	FWM + Thick Overlay (> 2.0 - 3.0)	43.50	257,172	257,172	336,864	91
1978	Boeing Access Rd	Airport Way S	Airport Way S	3	Selected Yr 3 50	FWM + Thick Overlay (> 2.0 - 3.0)	45.50	88,043	88,043	370,189	92
1754	Boeing Access Rd	I-5 Ramp	Airport Way S	3	Selected Yr 3 50	FWM + Thick Overlay (> 2.0 - 3.0)	45.50	39,221	39,221	370,189	92
1750	Boeing Access Rd	I-5 Ramp	I-5 Ramp	3	Selected Yr 3 50	FWM + Thick Overlay (> 2.0 - 3.0)	45.50	86,632	86,632	370,189	92
1755	Boeing Access Rd	I-5 Ramp	Martin L King Jr Ramp	3	Selected Yr 3 50	FWM + Thick Overlay (> 2.0 - 3.0)	45.50	88,088	88,088	370,189	92
1975	Boeing Access Rd	Martin L King Jr Ramp	Martin L King Jr Way S	3	Selected Yr 3 50	FWM + Thick Overlay (> 2.0 - 3.0)	45.50	68,205	68,205	370,189	92
1871	Interurban Ave S	56th Ave S	S 140th St	3	Selected Yr 3 53	FWM + Thick Overlay (> 2.0 - 3.0) + Strctrl Ptch	48.00	659,760	659,760	659,760	92
1353	143rd Pl	Interurban Ave S	EAST END	3	Selected Yr 3 23	MicroSurface / Chip Seal + Strctrl Ptch	7.75	19,724	19,724	19,724	86
1790	44th Ave S	S 140th St	S 142nd St	4	Selected Yr 4 50	FWM + Thick Overlay (> 2.0 - 3.0)	39.50	56,920	56,920	122,056	94
1969	61st Ave S	Southcenter Blvd	Tukwila Pkwy	4	Selected Yr 4 53	FWM + Thick Overlay (> 2.0 - 3.0) + Strctrl Ptch	45.50	124,625	124,625	198,290	94
1955	66th Ave S	Southcenter Blvd	I-405 Ramp	4	Selected Yr 4 53	FWM + Thick Overlay (> 2.0 - 3.0) + Strctrl Ptch	45.50	45,728	45,728	198,290	94
1880	Interurban Ave S	S 140th St	58th Ave S	4	Selected Yr 4 50	FWM + Thick Overlay (> 2.0 - 3.0)	45.50	242,015	242,015	424,834	94
1167	Interurban Ave S	58th Ave S	S 143rd St	4	Selected Yr 4 50	FWM + Thick Overlay (> 2.0 - 3.0)	45.50	182,819	182,819	424,834	94
1392	Interurban Ave S	I-405 Ramp	DS@490E I-405 Ramp	4	Selected Yr 4 50	FWM + Thick Overlay (> 2.0 - 3.0)	45.50	145,646	145,646	291,429	94
1867	Interurban Ave S	DS@490E I-405 Ramp	Fun Center Way	4	Selected Yr 4 50	FWM + Thick Overlay (> 2.0 - 3.0)	45.50	37,174	37,174	291,429	94
1562	Interurban Ave S	Fun Center Way	SW Grady Way	4	Selected Yr 4 50	FWM + Thick Overlay (> 2.0 - 3.0)	45.50	67,431	67,431	291,429	94
1872	Interurban Ave S	SW Grady Way	West Valley Hwy	4	Selected Yr 4 50	FWM + Thick Overlay (> 2.0 - 3.0)	45.50	41,178	41,178	291,429	94
1587	141st St	Tukwila Intl Blvd	42nd Ave S	4	Selected Yr 4 50	FWM + Thick Overlay (> 2.0 - 3.0)	39.50	65,136	65,136	122,056	94

Fun Center Way

1346

Grady Way

Interurban Ave S

4 Selected Yr 4 53 FWM + Thick Overlay (> 2.0 - 3.0) + Strctrl Ptch

45.50

27,937

27,937

198,290 94

City of Tukwila, WA

Street I	Street Inventory and Five Year Rehabilitation Plan By Segment				50k/Year Rehabilitation	Plan		Analys	sis Start Date:	1/1/2021	
Easy S	Street Analysis	from Street	ro Street	ear of First Rehab	begment Rehab Results Rehab Activity Code	tehab Activity	۷۷g Unit Rate (\$/yd2)	Segment Pavement Cost (\$)	Segment Total Cost (\$)	Nhole Project Cost (\$)	i Year Post Rehab PCI
1882	East Marginal Way S	S 96th PI	S Norfolk St	5	Selected Yr 5 50	FWM + Thick Overlay (> 2.0 - 3.0)	45.50	406,861	406,861	406,861	96
1008	East Marginal Way S	Boeing Access Rd	Tukwila Intl Blvd	5	Selected Yr 5 50	FWM + Thick Overlay (> 2.0 - 3.0)	43.50	30,015	30,015	345,347	96
1010	East Marginal Way S	Tukwila Intl Blvd	S 112th St	5	Selected Yr 5 50	FWM + Thick Overlay (> 2.0 - 3.0)	43.50	206,756	206,756	345,347	96
1427	East Marginal Way S	S 112th St	S 115th St	5	Selected Yr 5 50	FWM + Thick Overlay (> 2.0 - 3.0)	43.50	108,576	108,576	345,347	96
1101	180th St	West Valley Hwy	S 180th St	5	Selected Yr 5 50	FWM + Thick Overlay (> 2.0 - 3.0)	45.50	294,795	294,795	294,795	96



City of Tukwila, WA Street Inventory and Five Year Rehabilitation Plan By Year					50k/Year Rehabilitat	tion Plan		rrent PCI Date:	7/16/2020 1/1/2021		
Easy Str	eet Analysis	*		st Rehab	int Rehab Results Activity Code	Activity	tvg Unit Rate (\$/yd2)	Pavement Cost	Segment Total Cost (\$)	Project Cost (\$)	t Rehab PCI
GISID	On Street	From Street	To Street	Year of First	Segment R	Rehab Act	Avg Unit R	Segment P	Segment T	Whole Pro	5 Year Post
1001	Costco Dr	Andover Park E	DS@280E Andover Park E	1	Selected Yr 1 50	FWM + Thick Overlay (> 2.0 - 3.0)	39.50	25,794	25,794	148,521	90
1357	Minkler Blvd	Andover Park E	Industry Dr	1	Selected Yr 1 50	FWM + Thick Overlay (> 2.0 - 3.0)	39.50	59,329	59,329	148,521	90
1372	Minkler Blvd	Industry Dr	EAST END	1	Selected Yr 1 50	FWM + Thick Overlay (> 2.0 - 3.0)	39.50	63,398	63,398	148,521	90
1601	140th St	34th Ave S	37th Ave S	1	Selected Yr 1 50	FWM + Thick Overlay (> 2.0 - 3.0)	39.50	45,899	45,899	202,201	90
1604	140th St	37th Ave S	38th Ave S	1	Selected Yr 1 50	FWM + Thick Overlay (> 2.0 - 3.0)	39.50	38,197	38,197	202,201	90
1484	140th St	38th Ave S	Tukwila Intl Blvd	1	Selected Yr 1 50	FWM + Thick Overlay (> 2.0 - 3.0)	39.50	41,791	41,791	202,201	90
1589	141st St	37th Ave S	Tukwila Intl Blvd	1	Selected Yr 1 50	FWM + Thick Overlay (> 2.0 - 3.0)	39.50	76,314	76,314	202,201	90
1677	144th St	Military Rd S	34th Ave S	1	Selected Yr 1 30	Edge Mill + Thin Overlay (1.5 - 2.0)	23.25	25,970	25,970	133,734	87
2016	144th St	34th Ave S	34th Ln S	1	Selected Yr 1 30	Edge Mill + Thin Overlay (1.5 - 2.0)	23.25	23,529	23,529	133,734	87
2015	144th St	34th Ln S	37th Ave S	1	Selected Yr 1 30	Edge Mill + Thin Overlay (1.5 - 2.0)	23.25	40,292	40,292	133,734	87
1187	144th St	37th Ave S	Tukwila Intl Blvd	1	Selected Yr 1 30	Edge Mill + Thin Overlay (1.5 - 2.0)	23.25	43,943	43,943	133,734	87
1775	Southcenter Pkwy	Strander Blvd	S 168th St	1	Selected Yr 1 30	Edge Mill + Thin Overlay (1.5 - 2.0)	24.00	165,432	165,432	324,840	87
1774	Southcenter Pkwy	S 168th St	Wig Blvd	1	Selected Yr 1 30	Edge Mill + Thin Overlay (1.5 - 2.0)	24.00	83,928	83,928	324,840	87
1691	Southcenter Pkwy	Wig Blvd	Minkler Blvd	1	Selected Yr 1 30	Edge Mill + Thin Overlay (1.5 - 2.0)	24.00	75,480	75,480	324,840	87
1593	Midland Dr	WEST END	Andover Park W	1	Selected Yr 1 50	FWM + Thick Overlay (> 2.0 - 3.0)	39.50	91,245	91,245	237,316	90
1129	Triland Dr	WEST END	Andover Park W	1	Selected Yr 1 50	FWM + Thick Overlay (> 2.0 - 3.0)	39.50	146,071	146,071	237,316	90
1454	200th St	Southcenter Pkwy	CITY LIMIT	2	Selected Yr 2 50	FWM + Thick Overlay (> 2.0 - 3.0)	45.50	427,746	427,746	427,746	90
1827	Ryan Way	Martin L King Jr Way S	47th Ave S	2	Selected Yr 2 50	FWM + Thick Overlay (> 2.0 - 3.0)	43.50	223,373	223,373	275,225	91
1377	Ryan Way	47th Ave S	S 107th St	2	Selected Yr 2 50	FWM + Thick Overlay (> 2.0 - 3.0)	43.50	51,852	51,852	275,225	91
1420	Ryan St	Beacon Ave S	51st Ave S	2	Selected Yr 2 50	FWM + Thick Overlay (> 2.0 - 3.0)	43.50	79,692	79,692	336,864	91
1826	Ryan Way	S 107th St	Beacon Ave S	2	Selected Yr 2 50	FWM + Thick Overlay (> 2.0 - 3.0)	43.50	257,172	257,172	336,864	91
1978	Boeing Access Rd	Airport Way S	Airport Way S	3	Selected Yr 3 50	FWM + Thick Overlay (> 2.0 - 3.0)	45.50	88,043	88,043	370,189	92
1754	Boeing Access Rd	I-5 Ramp	Airport Way S	3	Selected Yr 3 50	FWM + Thick Overlay (> 2.0 - 3.0)	45.50	39,221	39,221	370,189	92
1750	Boeing Access Rd	I-5 Ramp	I-5 Ramp	3	Selected Yr 3 50	FWM + Thick Overlay (> 2.0 - 3.0)	45.50	86,632	86,632	370,189	92
1755	Boeing Access Rd	I-5 Ramp	Martin L King Jr Ramp	3	Selected Yr 3 50	FWM + Thick Overlay (> 2.0 - 3.0)	45.50	88,088	88,088	370,189	92
1975	Boeing Access Rd	Martin L King Jr Ramp	Martin L King Jr Way S	3	Selected Yr 3 50	FWM + Thick Overlay (> 2.0 - 3.0)	45.50	68,205	68,205	370,189	92
1871	Interurban Ave S	56th Ave S	S 140th St	3	Selected Yr 3 53	FWM + Thick Overlay (> 2.0 - 3.0) + Strctrl Ptch	48.00	659,760	659,760	659,760	92
1353	143rd PI	Interurban Ave S	EAST END	3	Selected Yr 3 23	MicroSurface / Chip Seal + Strctrl Ptch	7.75	19,724	19,724	19,724	86
1969	61st Ave S	Southcenter Blvd	Tukwila Pkwy	4	Selected Yr 4 53	FWM + Thick Overlay (> 2.0 - 3.0) + Strctrl Ptch	45.50	124,625	124,625	198,290	94
1955	66th Ave S	Southcenter Blvd	I-405 Ramp	4	Selected Yr 4 53	FWM + Thick Overlay (> 2.0 - 3.0) + Strctrl Ptch	45.50	45,728	45,728	198,290	94
1346	Grady Way	Interurban Ave S	Fun Center Way	4	Selected Yr 4 53	FWM + Thick Overlay (> 2.0 - 3.0) + Strctrl Ptch	45.50	27,937	27,937	198,290	94
1880	Interurban Ave S	S 140th St	58th Ave S	4	Selected Yr 4 50	FWM + Thick Overlay (> 2.0 - 3.0)	45.50	242,015	242,015	424,834	94
1167	Interurban Ave S	58th Ave S	S 143rd St	4	Selected Yr 4 50	FWM + Thick Overlay (> 2.0 - 3.0)	45.50	182,819	182,819	424,834	94
1392	Interurban Ave S	I-405 Ramp	DS@490E I-405 Ramp	4	Selected Yr 4 50	FWM + Thick Overlay (> 2.0 - 3.0)	45.50	145,646	145,646	291,429	94
1867	Interurban Ave S	DS@490E I-405 Ramp	Fun Center Way	4	Selected Yr 4 50	FWM + Thick Overlay (> 2.0 - 3.0)	45.50	37,174	37,174	291,429	94
1562	Interurban Ave S	Fun Center Way	SW Grady Way	4	Selected Yr 4 50	FWM + Thick Overlay (> 2.0 - 3.0)	45.50	67,431	67,431	291,429	94
1872	Interurban Ave S	SW Grady Way	West Valley Hwy	4	Selected Yr 4 50	FWM + Thick Overlay (> 2.0 - 3.0)	45.50	41,178	41,178	291,429	94
1587	141st St	Tukwila Intl Blvd	42nd Ave S	4	Selected Yr 4 50	FWM + Thick Overlay (> 2.0 - 3.0)	39.50	65,136	65,136	122,056	94
1790	44th Ave S	S 140th St	S 142nd St	4	Selected Yr 4 50	FWM + Thick Overlay (> 2.0 - 3.0)	39.50	56,920	56,920	122,056	94
1882	East Marginal Way S	S 96th Pl	S Norfolk St	5	Selected Yr 5 50	FWM + Thick Overlay (> 2.0 - 3.0)	45.50	406,861	406,861	406,861	96
1008 1010	East Marginal Way S	Boeing Access Rd Tukwila Intl Blvd	Tukwila Intl Blvd	5 5	Selected Yr 5 50 Selected Yr 5 50	FWM + Thick Overlay (> 2.0 - 3.0)	43.50	30,015	30,015	345,347	96 96
1010 1427	East Marginal Way S	S 112th St	S 112th St S 115th St		Selected Yr 5 50 Selected Yr 5 50	FWM + Thick Overlay (> 2.0 - 3.0)	43.50 43.50	206,756	206,756	345,347	96 96
1427	East Marginal Way S			5		FWM + Thick Overlay (> 2.0 - 3.0)		108,576	108,576	345,347	96 96
1101	180th St	West Valley Hwy	S 180th St	э	Selected Yr 5 50	FWM + Thick Overlay (> 2.0 - 3.0)	45.50	294,795	294,795	294,795	90

