



Road Maintenance and Improvements Plan

City of Diamondhead

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PROJECT OVERVIEW



Pavement management is about expanding the toolbox that public entities use to maintain, preserve and repair their streets.

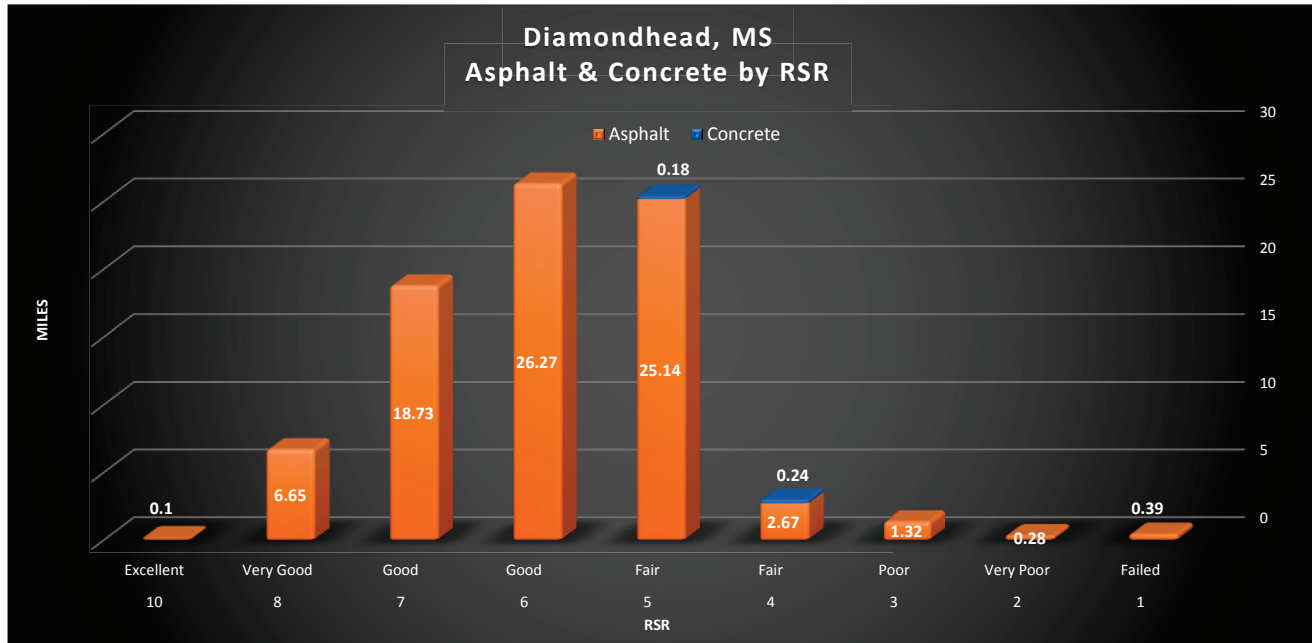
This Road Maintenance and Improvements Plan (MIP) was developed to assist Cities and Counties to better understand their road network as a whole, in order to be proactive versus reactive. The approach and methodologies allow for an efficient evaluation of the scope of the road network's condition and what it will take to keep these roads in good condition.

The report is separated into three main sections to help disseminate the information collected. Section 1 describes the program methodologies and concepts used in the inventory, budget forecasting, and prioritization. Next, is a review and description of the treatment and repair costs by treatment type. Finally, planning level budget scenarios are provided

that indicate the size of the total problem and the estimated degradation that the different rating levels can experience per year. These three main sections are then supported with appendix information consisting of treatment descriptions, rating scale used, priority lists by rating and the network mapping of the rating.

The key to a successful program is the education of decision makers and department personnel, as well as the general public, about the different treatment options and what they mean. The biggest hurdle many will have, initially, is understanding why some roads get treatment when others do not. The reality is that in a pavement management program, the goal is to touch every road with a treatment to prolong its useful life. In the program, it is important for the public to understand the end goals so that they can accept the realities of maintaining and preserving a road network.

METHODOLOGY



A “pavement could last indefinitely without deterioration in the structural elements provided it is not overlooked and the appropriate maintenance is carried out.” Ferne 2006

Program Background

The City of Diamondhead contracted with the Southern Mississippi Planning and Development District (SMPDD), in partnership with Civil-Link, to develop a Roadway MIP with the goal of prioritizing improvements to help repair and maintain its roadway network. This comprehensive study was undertaken by establishing a complete roadway condition inventory and then using that inventory to produce the list of prioritized improvements. Meetings with City personnel have resulted in the selection of the treatment options that are most appropriate and acceptable for the City. Estimated costs were used for these treatments to approximate the total budgetary cost of treating the City’s infrastructure. Road maintenance and improvements are expensive and roads constantly degrade, so analysis was conducted to develop the most appropriate budget to both maintain and improve the system over a multi-year period. This planning effort combines local knowledge with current best practices, research, and technologies involving road maintenance and preservation to provide the City with a tool to help implement a successful MIP.

This report is a planning tool intended to aid the City in the implementation of a pavement management program by establishing suggested repairs and

estimated costs throughout the City. The overall objective is to equip the City with the information it needs to maintain, preserve and improve its road infrastructure in the most cost-effective way into the future. The MIP suggests spending money across all repair categories every year. On a broad scale, it is recommended that the City apply some type of maintenance or repair activity to every road in the city, over the period indicated, to at least maintain the existing conditional ratings and then add to that budgetary cost. The goal is to bring every road in the City to a level where preventative maintenance will keep the roads from degenerating into a poor condition. Keeping roads in a good condition helps minimize repair costs, keeps the ride quality high, and helps lower overall maintenance costs.

Inventory Methodology

Civil-Link evaluated the condition of all the streets across the City using a rating system published by the University of Wisconsin, the PASER rating system, to assign a Road Surface Rating (RSR) to the roads based on their current condition. This rating system categorizes the road condition from 1-10 based on surface distresses and road distortions, with 1 being the worst and 10 being brand new construction. The type of distress, severity of the distress and the

frequency of the distress are all considered in the rating of each segment of road. The surveyors slowly drove along the roads and electronically rated the segment of road they are evaluating. The rating data was joined with the road center-line data in a GIS system. The raw data was reviewed and assigned average conditions to segments of road by city blocks, or longer sections, in the same condition. This gives a current snapshot of the condition of every road across the City. This allows the City to receive recommended general treatments and estimated costs per category.

Budget Forecasting

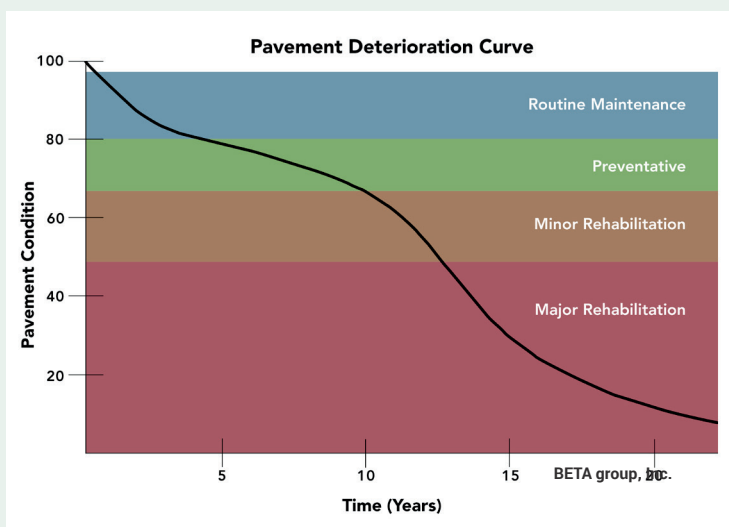
SMPDD and Civil-Link met with the City and discussed treatment options that would be most appropriate to use throughout the City. An estimate of the approximate cost per treatment type was developed by combining industry average costs with costs local to Mississippi. These treatment costs, together with the rating and other road information collected, were used to estimate a cost per road segment. The system costs were then separated by RSR to determine the total cost to treat every road at one time. This would be a best-case scenario where every road would immediately be brought up to a good condition where a yearly budget could be established to maintain those roads at that good condition. Using this as a starting point, it was then estimated how many roads will degrade, or 'slide,' into the next lowest category each year. These numbers were used to find an approximate cost-per-year needed to help offset or delay that yearly slide. These estimates are for general construction costs only and do not include costs relating to agency funding, specific project design and construction administration costs, or costs related to utility modifications.

Functional Classes

Class	Avg. Daily Traffic	Example Road
Minor Arterial	8,000 - 16,000	Gex Dr
Major Collector	5,000 - 8,000	Diamondhead Dr
Local Collector	1,500 - 2,500	Analii St
Local	300 - 1,500	Subdivision Streets
LO/DE/CS	1 - 300	Dead End / Cul De Sac

Prioritization Methodology

The priority listing is provided as a tool to aid the City in choosing projects that best align with their goals. Using ADT (functional classification), treatment cost, treatment life extension, and RSR rating, a cost-benefit-factor (CBF) was assigned to each roadway segment (asphalt only). The functional classification system is a method of grouping roadways into categories based on traffic volume, speed, roadway access, and other characteristics. Both the Mississippi Department of Transportation's functional classification assignments for the City of Diamondhead's roadways and the traffic counts provided by Gulf Regional Planning Commission were used to group the City's streets into seven functional classifications. The impact of functional classification on the CBF is that streets with higher traffic volumes will always have more benefit to the City than a local cu de sac that services a few homes. This weighting should be taken into account when deciding and prioritizing repairs.



“A successful and efficient pavement preservation program will have the support and cooperation of upper management as well as a comprehensive education effort aimed at the customer....

1. Establish program guidelines
2. Determine maintenance needs
3. Provide framework for treatment selection
4. Develop analysis procedures to determine the most effective treatment
5. Include a feedback mechanism to determine program effectiveness

- *Selecting a Preventative Maintenance Treatment for Flexible Pavements*, Foundation for Pavement Preservation, D.C., 2000

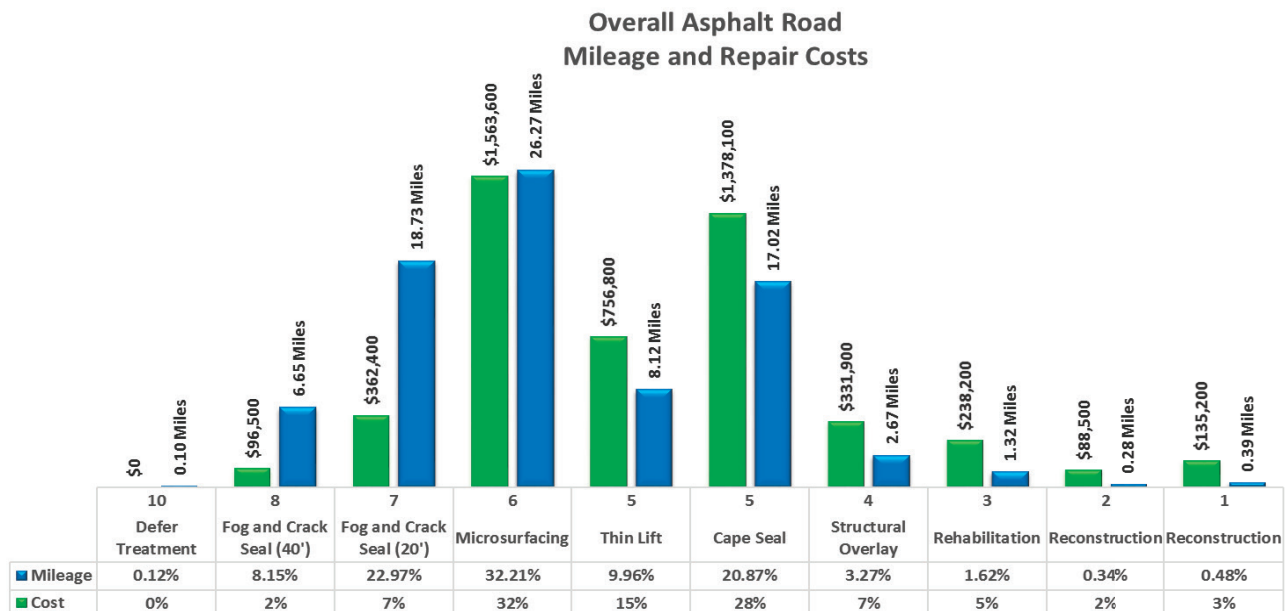
TREATMENTS & ESTIMATED COSTS

Asphalt Roads

Estimated Treatment Cost Per Mile - Asphalt Roads

Recommended Treatments	RSR	Estimated Cost per Mile
Defer	10-9 - Excellent	\$0
Crack Seal & Fog	8 - Very Good	\$14,600
Crack Seal & Fog	7 - Good	\$19,400
Crack Seal & Micro	6 - Good	\$59,600
Cape Seal	5 - Fair	\$81,000
Thin Lift	5 - Fair	\$93,200
Structural Overlay	4 - Fair	\$124,400
Rehabilitation	3 - Poor	\$180,500
Reconstruction	2 - Very Poor	\$316,100
Reconstruction	1 - Failed	\$346,700

Average treatment costs are estimated using the following variables, as appropriate: milling, striping, patching/ prep work, estimated road width and lane count, and estimated treatment cost. These are estimated costs based on the typical conditions associated with the overall rating of the roadway. These costs do not include possible subsidiary work for drainage related to curb and gutters, inlets, or piping and it also does not account for outside agency funding or project specific design and construction administration services. Actual work costs will need to be determined on a project-by-project basis.



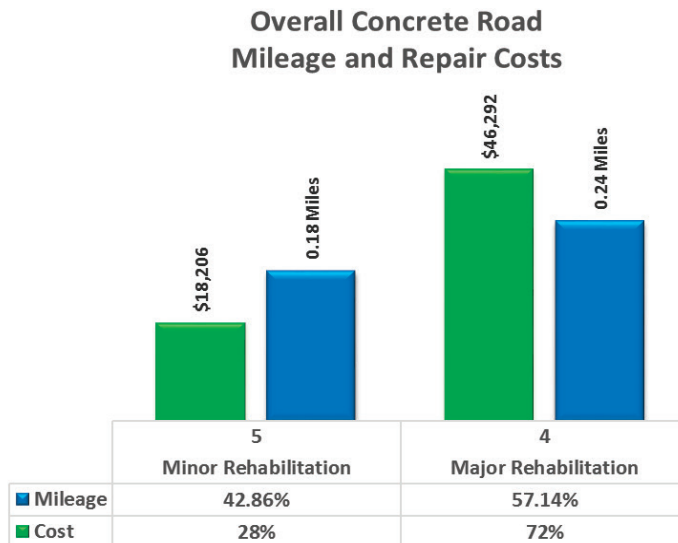
TREATMENTS & ESTIMATED COSTS

Concrete Roads

Estimated Treatment Cost Per Mile - Concrete Roads

Recommended Treatments	RSR	Estimated Cost per Mile
Minor Rehabilitation	5 - Fair	\$102,000
Major Rehabilitation	4 - Fair	\$193,000

Costs were estimated using general maintenance and repair costs per rating. Appendix B contains rehabilitation types, capabilities and functions to help determine the appropriate treatments, as-needed. These are estimated costs based on the typical conditions associated with the overall rating of the roadway. These costs do not include possible subsidiary work for drainage related to curb and gutters, inlets, or piping and it also does not account for outside agency funding or project specific design and construction administration services. Actual work costs will need to be determined on a project-by-project basis.



SYSTEM BUDGET SCENARIOS

Project selection and program implementation will be specific to the City. There are many ways to attack the current problem and it will be up to City leaders to choose the best path forward. Regardless of initial steps, whether the City fixes all of the worst roads first or starts into a yearly strategy to apply money across all categories, the end goal is to bring the road network up to a level where routine maintenance and preservation activities are the main treatments needed. The City has 81.9 miles of road with 81.5 asphalt miles and 0.4 concrete miles.

Getting to the point of routine maintenance can be a slow process. During that time, the road network is constantly changing and in five to ten years, the road network will be much different than it is today. This plan can significantly improve the overall road conditions across the entire city. However, the road system is always aging and is exposed to traffic and weather. The main unknown that we contend with is the rate of degradation over time. We do not know when traffic patterns will change, when severe freeze-thaw cycles will occur, how old the current asphalt is, or when it will degrade into a different treatment option. We have made assumptions from industry averages to help us plan, but actual changes over time will vary. We are using a snapshot of the current conditions and do not know the road age or the road deterioration rates. It is recommended to re-evaluate the system every three years to five years to adjust for changes in the system and to establish a road network history.

PROJECT SELECTION - ASPHALT ROADS

Based on current industry standards, the City should typically try to treat the 81.5 miles of asphalt roads between five to ten years. Based on our findings, in order to maintain the network's current level of condition (to offset estimated yearly condition slide or degradation) the amount in each category in the table below relating to the maintaining cost should be budgeted. In order to improve the network's level of condition, the amounts in each category should be exceeded.

Estimated Yearly Maintenance Costs by Road Surface Rating - Asphalt Roads

RSR	Total Mile-age	Current Total Estimated Costs	Estimated Yearly Mileage Slide	Estimated Yearly Maintaining Cost
10 - Excellent	0.10		0.0	\$0
8 - Very Good	6.65	\$96,500	0.8	\$12,200
7 - Good	18.73	\$362,400	2.7	\$52,000
6 - Good	26.27	\$1,563,600	3.8	\$223,700
5 - Fair	25.14	\$2,134,900	4.2	\$356,200
4 - Fair	2.67	\$331,900	0.4	\$55,400
3 - Poor	1.32	\$238,200	0.2	\$39,800
2 - Very Poor	0.28	\$88,500	0.0	\$7,400
1 - Failed	0.39	\$135,200	0.0	\$11,300
Totals	81.55	\$4,951,200	12.2	\$758,000

PROJECT SELECTION - CONCRETE ROADS

Concrete pavement preservation (CPP) techniques provide cost-effective methods to correct problems and rehabilitate concrete pavements. These methods can extend the service life of the roadway considerably. Like asphalt preservation, CPP techniques should be used on structurally sound pavements at the right time to help minimize and manage repair costs. Overall, by the time a concrete roadway reaches an RSR of 6 or below, it should be inspected yearly to help determine the treatments that are suitable for correcting apparent distresses. There are several techniques that can help preserve concrete roads and these are mainly focused on correcting slab stabilization problems, faulting and load issues, and profile problems. Crack sealing and resealing, as well as partial and full-depth patching, are other methods that should be performed both routine and as-needed maintenance. This is the window of opportunity for the City to get in front of problems and become proactive in preventing larger issues from developing. In Appendix B we have included treatment descriptions and distress charts to help guide the City in future project selection for CPP and rehabilitation efforts.

Estimated Yearly Maintenance Costs by Road Surface Rating - Concrete Roads

RSR	Total Mileage	Current Total Estimated Costs	Estimated Yearly Mileage Slide	Estimated Yearly Maintaining Costs
5 - Fair	0.18	\$18,300	0.03	\$2,601
4 - Fair	0.24	\$46,300	0.03	\$6,613
Totals	0.42	\$64,600	0.1	\$9,214

* Estimated yearly slide and maintaining costs are controlled by the estimated yearly slide for asphalt roads.

Appendix A - PASER Rating Scales

Asphalt PASER Rating Scale

Concrete PASER Rating Scale

Asphalt PASER Rating Scale

<i>Surface rating</i>	<i>Visible distress*</i>	<i>General condition/ treatment measures</i>
10 Excellent	None.	New construction.
9 Excellent	None.	Recent overlay. Like new.
8 Very Good	No longitudinal cracks except reflection of paving joints. Occasional transverse cracks, widely spaced (40' or greater). All cracks sealed or tight (open less than 1/4").	Recent sealcoat or new cold mix. Little or no maintenance required.
7 Good	Very slight or no raveling, surface shows some traffic wear. Longitudinal cracks (open 1/4") due to reflection or paving joints. Transverse cracks (open 1/4") spaced 10' or more apart, little or slight crack raveling. No patching or very few patches in excellent condition.	First signs of aging. Maintain with routine crack filling.
6 Good	Slight raveling (loss of fines) and traffic wear. Longitudinal cracks (open 1/4"-1/2"), some spaced less than 10'. First sign of block cracking. Slight to moderate flushing or polishing. Occasional patching in good condition.	Shows signs of aging. Sound structural condition. Could extend life with sealcoat.
5 Fair	Moderate to severe raveling (loss of fine and coarse aggregate). Longitudinal and transverse cracks (open 1/2") show first signs of slight raveling and secondary cracks. First signs of longitudinal cracks near pavement edge. Block cracking up to 50% of surface. Extensive to severe flushing or polishing. Some patching or edge wedging in good condition.	Surface aging. Sound structural condition. Needs sealcoat or thin non-structural overlay (less than 2")
4 Fair	Severe surface raveling. Multiple longitudinal and transverse cracking with slight raveling. Longitudinal cracking in wheel path. Block cracking (over 50% of surface). Patching in fair condition. Slight rutting or distortions (1/2" deep or less).	Significant aging and first signs of need for strengthening. Would benefit from a structural overlay (2" or more).
3 Poor	Closely spaced longitudinal and transverse cracks often showing raveling and crack erosion. Severe block cracking. Some alligator cracking (less than 25% of surface). Patches in fair to poor condition. Moderate rutting or distortion (1" or 2" deep). Occasional potholes.	Needs patching and repair prior to major overlay. Milling and removal of deterioration extends the life of overlay.
2 Very Poor	Alligator cracking (over 25% of surface). Severe distortions (over 2" deep). Extensive patching in poor condition. Potholes.	Severe deterioration. Needs reconstruction with extensive base repair. Pulverization of old pavement is effective.
1 Failed	Severe distress with extensive loss of surface integrity.	Failed. Needs total reconstruction.

Concrete PASER Rating Scale

Surface rating	Visible distress*	General condition/ treatment measures
10 Excellent	None.	New pavement. No maintenance required.
9 Excellent	Traffic wear in wheelpath. Slight map cracking or pop-outs.	Recent concrete overlay or joint rehabilitation. Like new condition. No maintenance required.
8 Very Good	Pop-outs, map cracking, or minor surface defects. Slight surface scaling. Partial loss of joint sealant. Isolated meander cracks, tight or well sealed. Isolated cracks at manholes, tight or well sealed.	More surface wear or slight defects. Little or no maintenance required.
7 Good	More extensive surface scaling. Some open joints. Isolated transverse or longitudinal cracks, tight or well sealed. Some manhole displacement and cracking. First utility patch, in good condition. First noticeable settlement or heave area.	First sign of transverse cracks (all tight); first utility patch. More extensive surface scaling. Seal open joints and other routine maintenance.
6 Good	Moderate scaling in several locations. A few isolated surface spalls. Shallow reinforcement causing cracks. Several corner cracks, tight or well sealed. Open (1/4" wide) longitudinal or transverse joints and more frequent transverse cracks (some open 1/4").	First signs of shallow reinforcement or corner cracking. Needs general joint and crack sealing. Scaled areas could be overlaid.
5 Fair	Moderate to severe polishing or scaling over 25% of the surface. High reinforcing steel causing surface spalling. Some joints and cracks have begun spalling. First signs of joint or crack faulting (1/4"). Multiple corner cracks with broken pieces. Moderate settlement or frost heave areas. Patching showing distress.	First signs of joint or crack spalling or faulting. Grind to repair surface defects. Some partial depth patching or joint repairs needed.
4 Fair	Severe polishing, scaling, map cracking, or spalling over 50% of the area. Joints and cracks show moderate to severe spalling. Pumping and faulting of joints (1/2") with fair ride. Several slabs have multiple transverse or meander cracks with moderate spalling. Spalled area broken into several pieces. Corner cracks with missing pieces or patches. Pavement blowups.	Needs some full depth repairs, grinding, and/or asphalt overlay to correct surface defects.
3 Poor	Most joints and cracks are open, with multiple parallel cracks, severe spalling, or faulting. D-cracking is evident. Severe faulting (1") giving poor ride. Extensive patching in fair to poor condition. Many transverse and meander cracks, open and severely spalled.	Needs extensive full depth patching plus some full slab replacement.
2 Very Poor	Extensive slab cracking, severely spalled and patched. Joints failed. Patching in very poor condition. Severe and extensive settlements or frost heaves.	Recycle and/or rebuild pavement.
1 Failed	Restricted speed. Extensive potholes. Almost total loss of pavement integrity.	Total reconstruction.

Appendix B - Treatment Descriptions

ASPHALT

- Crack Sealing
- Fog Sealing
- Microsurfacing
- Cape Sealing
- Thin Lift / Overlay
- Mill & Fill
- Rehabilitation & Reconstruction

CONCRETE

- Treatment Types
- Treatment Capabilities and Functions

CRACK SEALING RATINGS 5-8

STANDALONE OR COMBINATION TREATMENT

Roads that are crack sealed last longer than those that are not.
- Pavement Preservation Crack Sealing/Filling

Crack sealing is one of the most cost-effective methods of preventing subsurface damage due to water infiltration. The procedure consists of cleaning or routing the cracks and then applying a sealant using a wand. Crack sealing/filling reduces water from entering the pavement and lessens future deterioration by keeping debris out of the crack. If properly designed and installed, the expected life of this procedure is typically 3 to 7 years. This process should be performed on pavements that are in good condition with low to moderate cracking. The best candidates are newer roads that are just beginning to crack. Roads with severe cracking and sub-surface problems are not good candidates for this treatment.

A good rule of thumb is to consider crack sealing within three to five years following a new construction, a slurry/microsurfacing treatment or a resurfacing.

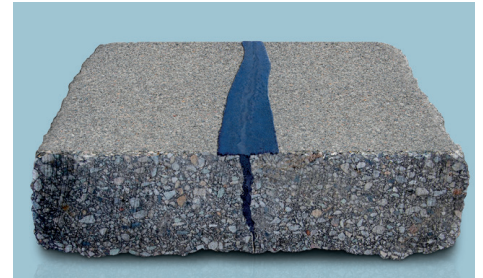
The most cost-effective method of ensuring optimum performance is by constructing a sound joint seal system that will last. Timing and ambient temperature are important aspects of crack sealing. Spring and fall typically have the best temperatures for crack sealing, as working cracks are in the middle of their 'working range.' Winters and summers have more extreme temperatures and the cracks will expand or compress depending on the temperature.

Many years of research have confirmed that crack treatments are the most cost-effective method of pavement preservation. Other methods of preservation are effective, but only one is the most cost-effective, "crack sealing." Many studies have shown that for every \$1.00 spent on crack sealing, \$4.00 or more is saved in rehabilitation cost. Other methods used for pavement preservation are effective and needed in many situations, but are more costly than crack sealing.

- CrafcO Crack Sealing Guidelines



Cracks should be sealed as soon as they are observed.



The goal is to prevent moisture from entering the pavement structure.

Crack Sealing is a Low Cost Treatment Applicable to Roads Rated 8-5

Average Cost: \$1 - \$2.00 / Linear Foot
Life Expectancy: 3 - 7 Years+
Cure Time: Minutes

- * Closes or Seals Cracks
- * Decreases Water Infiltration

FOG SEALING RATINGS 7-8

STANDALONE OR COMBINATION TREATMENT

Fog seals are a method of adding asphalt to an existing pavement surface to improve sealing or waterproofing, prevent further stone loss by holding aggregate in place, or simply improve the surface appearance. - Fog Seal Guidelines, California DOT, 2003

Fog seals are the cheapest method of protecting the entire road surface at once. A thin blanket of asphalt emulsion is sprayed over the surface of the road. Fog seals cost between 10-20k/mile. They are a quick way to protect the road from the deteriorating effects of the sun. Fog seals are thick enough to seal off small, hairline cracks (1/8 inch). The roadway surface is typically in a very good condition when using a fog seal. However, it can be applied on surfaces that fall below the normal conditions, if the overall goal is to protect large portions of asphalt surface at a low price-point. Cracking larger than 1/8 inch should be treated with a crack sealing prior to fog sealing.

Fog sealing will lower friction ratings of the roadway, so it should be used with caution on very smooth roadways. Fog sealing has a short life expectancy and is primarily a means to rejuvenate asphalt and help slow the aging process. It is a way to help improve sealing and waterproofing, help prevent raveling by helping to lock stone in place and can improve surface appearance.

The Asphalt Emulsion Manufacturers Association (AEMA) defines a fog seal as “a light spray application of dilute asphalt emulsion used primarily to seal an existing asphalt surface to reduce raveling and enrich dry and weathered surfaces.”

Fog seals will also improve the waterproofing of the surface and reduce its aging susceptibility by lowering permeability to water and air.



Fog sealing should be placed on roads in good overall condition

Fog sealing is a first-line of defense that helps get ahead of the negative effects of weathering and deterioration that occur to asphalt over time. Do not apply rejuvenating fog seals to newly laid asphalt, since the minerals and emulsion are still present and the rejuvenator will not be absorbed by the asphalt.

Fog Sealing is a Low-Cost Application suitable for One to Five Year Old Asphalt

Average Cost: \$.50 / Square Yard
Life Expectancy: 2 - 4 Years
Cure Time: 2.5 Hours

- * Decreases Permeability
- * Closes or Seals Cracks
- * Reduces Shrinkage
- * Slows Pitting / Raveling
- * Reduces Oxidation



SLURRY SEAL / MICROSURFACING RATINGS 5-10

STANDALONE OR COMBINATION TREATMENT

Slurry sealing and microsurfacing can be used as a blanket covering on roadways to improve skid-resistance, prevent oxidation, raveling and reduce surface permeability.

Slurry sealing is a preservation method that blends together a small aggregate (rock), asphalt emulsion, mineral filler and water to form a cold mix. The mixture is then spread uniformly across the road surface by a paver. It takes about two hours to cure before traffic can be let back on it. It typically has a black, paved appearance that will fade over time to the color of the rock used. It is considered a step above a fog seal, due to the properties of the mixture. It is thin, about 3/8" thick, but the aggregate, asphalt and mineral fillers make a very protective coating on the surface of the roadway.

Microsurfacing is a similar process with the addition of a polymer to strengthen the mix, making it tougher to traffic, and speeding up the time it takes to cure. Microsurfacing can also help fill ruts, where slurry cannot, due to the addition of the polymer which helps rocks stack on top of each other. Microsurfacing also cures quicker than slurry sealing. We often recommend it over slurry sealing because it provides additional strength for a minimal cost increase.

Slurry and microsurfacing treatments have been used on pavements as young as two or three months old. They are very effective treatments in preventing oxidation, weathering and raveling of the asphalt. These treatments should be considered a primary player in a maintenance program.

Some entities and organizations have taken the approach of immediately applying a slurry treatment or microsurface on roads as young as 2 months old. This immediately provides the asphalt with protection from oxidation, raveling and weathering.



Typically, the applications are thin enough that milling is not required, and utilities such as valve boxes and manhole covers do not need to be raised. Over time, multiple treatments can build up and create a thicker surface layer that may interfere with utilities. If needed, the layers of microsurfacing can be milled away to restore the road surface to its original surface height.

Slurry seal is a treatment method aimed at protecting and prolonging the wearing surface of asphalt

Average Cost: \$2.20 - \$3.00 / Sq Yard
Life Expectancy: 6 - 8 Years
Cure Time: 2.5 Hours

- * Decreases Permeability
- * Closes or Seals Cracks
- * Reduces Shrinkage
- * Slows Pitting / Raveling
- * Reduces Oxidation
- * Provides New, Thin Wearing Surface



THIN LIFT / OVERLAY RATINGS 3-8

STANDALONE OR COMBINATION TREATMENT

Thin asphalt overlays are designed to provide a smooth surface on pavements with low to medium levels of surface distresses.

Thin lift overlays are asphalt overlays that are 1.5 inches or less in thickness. They are classified as a preservation technique. They are not classified as a treatment that gives structure to the roadway. Thin lifts as a preservation treatment typically solve the same issues that slurry sealing and microsurfacing solve. On their own, they do not solve major cracking problems. Cracks wider than 1/4" will either not be bridged or will reappear over a couple of years. Thin lifts can help treat rutting less than 1/2" deep.

Thin lifts can be used as a standalone treatment, or a combination treatment on top of a chip or a scrub seal. Thin lifts require no cure time, so they can be opened to traffic immediately after they are laid. Thin lifts also provide a lower tire-pavement noise than slurry or microsurfacing, meaning the riding surface is quieter. The thickness of the asphalt being laid allows surface imperfections to be smoothed out, which can substantially increase ride quality of the road. Also, where lots of cracking and asphalt loss has occurred, thin lifts may be combined with milling to remove the existing asphalt and create a smooth surface for the new overlay to adhere to.

Thin lift overlays can be used on roadways where quick turn-around is needed, since they can be opened to traffic immediately.

There are a few potential drawbacks of using a thin lift over a microsurfacing or slurry treatment. Thin lifts cost more than other comparable options, so less roads can be treated. Also, they do not provide as much friction rating as microsurfacing. A higher friction rating means more stopping power for vehicles which is especially important in wet-weather conditions. Another potential drawback is that thin-lifts can substantially raise the road surface, potentially requiring milling to match the gutter or the raising of valve boxes and manholes to match the surface.

Thin lifts are a good product. In practice, many typical City and County overlays are thin lifts and are often the only treatment option used. However, they are often used in ignorance of the real problems facing the roadway, mainly surface cracking. Most people look at a fresh asphalt overlay and note all of the cracks that were sealed off. In reality, cracks reappear at a rate of about 1" per year; many will show back up within a few years. If substantial surface cracking is present, milling is first required to remove the old asphalt and provide a smooth surface to lay the new asphalt on. Also, where curb and gutter is present, edge milling is needed to match the new surface to the gutter height. Over time, the edges will stay the same height as the gutter, but the center of the road will build up from repeated lifts and become rounded. Full milling is eventually required to establish a reduced slope. If edge milling is not used to match the gutter pan, then the asphalt is usually laid on top of the concrete gutter to the face of the curb. Over time, the gutter disappears as more and more asphalt overlays are applied, and drainage problems can occur. Full milling is eventually required to expose the gutter pan and re-establish the original road surface height.



A thin lift is a preservation option that is particularly suited to high-volume roadways

Average Cost: \$4.00 - \$7.00 / Sq Yard
Life Expectancy: 10 - 12 Years
Open to Traffic: Immediately

- * Closes or Seals Cracks
- * Improves Rideability
- * New, Thick Wearing Surface

CAPE SEAL RATINGS 4-6

COMBINATION TREATMENT

Cape seals are a combination of two treatments. The first treatment addresses extensive cracking, while the second treatment provides a smooth riding surface.

Cape seals are our recommended treatment for addressing roads in urban areas with moderate to extensive cracking, but that have not yet experienced large-scale structural problems. Cape seals are actually two separate treatments combined to produce a product that the general public will easily accept. We recommend cape seals be a combination of a scrub seal and a smoother surface treatment such as a slurry, microsurfacing or thin lift overlay. The scrub seal helps to address cracking, while the second treatment goes on top of the scrub to provide a smoother finished surface.

Scrub seals are preservation treatments that are designed to get emulsion deep into cracks. The treatment is applied by spraying an emulsion on the road and scrubbing it into the cracks by then dragging a stiff broom over the emulsion. The broom works to force the emulsion into cracks. The emulsion used has a rejuvenator in it to help soften stiff asphalt and hydrate it, providing it with life extension by adjusting the properties of the asphalt mixture. The emulsion is flexible, so that as cracks expand and contract, due to temperature fluctuations, the emulsion can move with it. After the emulsion is 'scrubbed' into the cracks, a light application of small rock aggregate is applied across the surface and rolled into the emulsion. Over a week or two, traffic will help to seat the rock into place and will also work to dislodge any rock that cannot be seated for some reason.

For a week or two, before the final treatment is applied, the surface of the road will be a rock aggregate. It is recommended that an effort is made to educate the public on the process that is taking place, and that the final surface will restore the roadway to its smooth texture and appearance. This will help reduce complaints and calls from citizens about the quality of their roadway.



A cape seal is a very effective way to treat cracking at a much lower price point than if the road had been milled and overlaid.

When implementing a cape seal, there is a 1-2 week delay between treatments. This delay allows time for the scrub seal to fully cure and for traffic to work on the rocks by either pushing them into place or dislodging them if there is not room for them. Before the final treatment is applied, the road surface is swept clean of all rock and debris. The final layer is then applied, and the general public will typically not be able to distinguish the final product from any other road in the city.

A cape seal is a preservation option that helps treat roads that are beginning to experience moderate to extensive cracking.

Average Cost: \$4.00 - \$7.00 / Sq Yard
Life Expectancy: 5-8 Years
Open to Traffic: 2 Hour Cure per treatment; 1-2 Week Delay between treatments

- * Decreases Permeability
- * Closes or Seals Cracks
- * Reduces Shrinkage
- * Slows Pitting / Raveling
- * Reduces Oxidation

'MILL AND FILL' RATINGS 3-5

STANDALONE STRUCTURAL TREATMENT

Milling and overlaying a road is an expensive treatment option to fix extensive cracking, repair a substantial loss of asphalt, or address structural needs.

A mill and overlay treatment is typically required when there is significant subgrade deficiencies, or when the road surface is too deteriorated from potholes and cracks. In these cases, the old asphalt layer, and sometimes part of the base material, needs to be removed. Milling allows the contractor to remove the old, damaged layers to a customized depth and provides a smooth working area for the new overlay to adhere to. At this point, the new asphalt is laid in the same manner as a typical overlay. The need for milling and overlay is a result of excessive deterioration of the asphalt surface and subsurface. This is the last step before rehabilitation and a total rebuild is required.

The process of milling and overlaying a street is fairly quick and straightforward. Depending on the length of the road, both operations may be performed on the same day, if not the next day. The final result will be a very smooth asphalt surface that has good rideability. Ideally, the surface would be treated with a fog seal in 2-3 years, followed by a microsurfacing a few years after that to protect the asphalt from oxidation, raveling and weathering.

Milling and overlaying is considered a structural treatment, and is typical of a roadway that has been allowed to degrade to the end of its lifespan. Roads can be intercepted before

The mill and fill option is one of the most costly options available for treating roads. And, as with the thin lift overlay, it has typically been one of the go-to options for municipalities and counties. If left alone, all asphalts will break down over time and will degrade to a point where a treatment such as this is required. However, using preservation treatments before a pavement deteriorates to this condition is a proactive way to help avoid these expensive treatments and repairs. The growth of the pavement preservation industry is a direct reflection of the need that entities have for lower-cost treatments. Most entities cannot afford to mill and overlay a significant portion of their roadway each year, which means that their entire roadway network is degrading faster than they can repair it. Overall, allowing roads to get to this point in their lifecycle is not a sustainable option for the long-term future health of the road network.



The old asphalt is passed through the milling machine and fed into a dump truck.



The milled surface is rough, but driveable, and is ready to be overlaid.

A mill and overlay is a technique to address extensive cracking and structural issues.

Average Cost: \$12.00 / Sq Yard
Life Expectancy: 15-20 Years
Open to Traffic: Immediately

- * Removes Old Surface Layer
- * Improves Rideability
- * New, Thick Wearing Surface

REHABILITATION / RECONSTRUCTION RATINGS 1-3

STANDALONE STRUCTURAL TREATMENT

Rehabilitation and reconstruction activities are the end of the line for a roadway's useful lifecycle. At this point, ride quality is severely degraded and repair costs skyrocket.

Rehabilitation and reconstruction activities are needed where roadways are experiencing severe pavement distresses and subgrade issues. There are several means and methods to performing these operations. Sometimes extensive patching can be used to address the subgrade issues. This is equivalent to a remove-and-replace option. However, other times a full depth reclamation is more cost effective. Full depth reclamation is the process of completely grinding, pulverizing and mixing the existing roadway material and the subgrade with cement and water, compacting it and establishing a new base layer for an asphalt or concrete surface to be applied on top of.

Roadways requiring this level of treatment are typically in very poor condition. Complaints along these routes can become very high due to a dramatic decrease in ride quality. Age-related problems and water infiltration typically can cause degradation and problems across the entire roadway. Once the subgrade is compromised there is little that a surface treatment can do to treat the underlying issues. Water will remain in the subgrade, even if the surface defects are fixed, and traffic loads, especially during wet-weather, accelerate problems such as rutting, mass cracking, potholes and other deformities.

Rehabilitation and reclamation levels are the last stop for a roadway's life, and are the most expensive treatments to apply. Fixing roads in this condition requires working deep into the subgrade to repair issues. Typically, the deeper the treatment option the more costly it becomes. In some cases, the roadway must be recycled at a depth of 1 or 2 feet to mix with good material.



The final product of a good rehabilitation or reclamation job is a roadway in very good condition. It is like-new, with a new subgrade and a new surface layer. These treatments eliminate ruts, potholes and other surface and subsurface problems, as well as completely rebuilding the structural capacity of the roadway. However, it is a costly expense and it is a treatment option that is not sustainable because of the cost required.

Rehabilitation and reconstruction methods are required when subsurface problems are great.

Average Cost: \$17.00 / Sq Yard
Life Expectancy: 15-20 Years
Open to Traffic: Immediately

- * Corrects Structural Deficiencies
- * Rebuilds Subsurface
- * Improves Rideability
- * New, Thick Wearing Surface



CONCRETE PAVEMENT PRESERVATION TREATMENT TYPES

Treatment Type	Treatment Description
Slab Stabilization	Filling of voids beneath concrete slabs by injecting cement grout, polyurethane, or other suitable materials through drilled holes in the concrete located over the void areas
Slab Jacking	Raising of settled concrete slabs to their original elevation by pressure injecting cement grout or polyurethane materials through drilled holes at carefully patterned locations
Partial-Depth Repair	Removal of small, shallow (top one-third of the slab) areas of deteriorated concrete and subsequent replacement with a cementitious or polymeric repair material
Full-Depth Repair	Cast-in-place or precast concrete repairs that extend through the full thickness of the existing slab, requiring full-depth removal and replacement of full or partial lane-width areas
Retrofitted Edgedrains	Cutting of a trench along the pavement edge and placement of a longitudinal edgedrain system (pipe or geocomposite drain, geotextile lining, bedding, and backfill material) in the trench, along with transverse outlets and headwalls
Dowel Bar Retrofit	Placement of dowel bars across joints or cracks in an existing concrete pavement to restore load transfer
Cross Stitching	Placement of deformed tiebars into holes drilled at an angle through cracks (or, in some cases, joints) in an existing concrete pavement
Diamond Grinding	Removal of a thin layer of concrete (typically 0.12 to 0.25 inches) from the pavement surface, using special equipment fitted with a series of closely spaced, diamond saw blades
Diamond Grooving	Cutting of narrow, discrete grooves into the pavement surface, either in the longitudinal direction (i.e., in the direction of traffic) or the transverse direction (i.e., perpendicular to the direction of traffic)
Joint Resealing	Removal of existing deteriorated transverse and/or longitudinal joint sealant (if present), refacing and pressure cleaning the joint sidewalls, and installing new material (liquid sealant and backer rod or preformed compression seal)
Crack Sealing	Sawing, power cleaning, and sealing cracks (typically transverse, longitudinal, and corner-break cracks wider than 0.125 inch) in concrete pavement using high-quality sealant materials
Concrete Overlay	Placement of a thin concrete layer (typically 3 to 4 inches thick) to a milled or prepared surface

* Concrete Pavement Preservation Guide, 2nd edition

CONCRETE PRESERVATION TREATMENT CAPABILITIES AND FUNCTIONS

Treatment	Prevention/Delay				Restoration/Improvement			
	Seal/ Waterproof Pavement/ Minimize Pumping	Fill Voids and Restore Support	Remove Moisture Beneath Structure	Prevent Intrusion of Incompressible Materials	Remove/ Control Faulting	Improve Texture for Friction	Improve Profile (Lateral Surface Drainage and Ride)	Improve Texture for Noise
Slab Stabilization		✓			✓			
Slab Jacking		✓					✓	
Partial-Depth Repair	✓			✓			✓	
Full-Depth Repair	✓	✓		✓	✓		✓	
Retrofitted Edgedrains			✓		✓			
Dowel Bar Retrofit					✓		✓	
Cross Stitching					✓		✓	
Diamond Grinding					✓	✓	✓	✓
Diamond Grooving						✓		
Joint Resealing	✓			✓				
Crack Sealing	✓			✓				
Thin Concrete Overlay						✓	✓	✓

* Concrete Pavement Preservation Guide, 2nd edition

Appendix C - Prioritized Listings

Asphalt

Overall Summary by Repair	C.1-1
Overall Detail by Repair & CBF	C.1-2
Overall Sorted Alphabetically	C.1-16
Ward Summary by Repair	C.1-35
Ward Detail by Repair & CBF	C.1-37

Concrete

Ward Summary by Repair	C.2-1
Ward Detail by Repair	C.2-2

City of Diamondhead, Mississippi

Asphalt Roads: Overall Summary by Repair Method

Repair	Length (Miles)	Square Yards	RSR	Repair Est.
Reconstruction	0.39	4,606	1	\$135,137
Reconstruction	0.28	3,134	2	\$88,421
Rehabilitation	1.32	15,112	3	\$238,136
Structural Overlay	2.67	29,467	4	\$331,807
Cape Seal	17.02	182,362	5	\$1,378,096
Thin Lift	8.12	75,225	5	\$756,741
Microsurfacing	26.27	270,347	6	\$1,563,532
Fog and Crack Seal (20')	18.73	195,831	7	\$362,316
Fog and Crack Seal (40')	6.65	71,752	8	\$96,438
Defer Treatment	0.10	1,129	10	\$0
Totals	81.54	848,966		\$4,950,624

City of Diamonhead, Mississippi

Asphalt Roads: Overall Detail by Repair Method and CBF

Roadway Name	Length (Miles)	Square Yards	RSR	Class	CBF	Repair Est.
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Reconstruction

Noma Dr	0.32	3,730	1	LO/DE/CS	0.0000	\$109,437
Olu Dr	0.07	876	1	LO/DE/CS	0.0000	\$25,700
<u>Totals</u>	<u>0.39</u>	<u>4,606</u>	<u>1</u>			<u>\$135,137</u>

Reconstruction

Mele Pl	0.03	323	2	LO/DE/CS	1.5949	\$9,124
Noma Pl	0.06	577	2	LO/DE/CS	1.5949	\$16,288
Akoko St	0.05	543	2	LO/DE/CS	1.5949	\$15,319
Olu Pl	0.11	1,261	2	LO/DE/CS	1.5949	\$35,584
Leisure Time Ln	0.04	429	2	LO/DE/CS	1.5949	\$12,106
<u>Totals</u>	<u>0.28</u>	<u>3,134</u>	<u>2</u>			<u>\$88,421</u>

Rehabilitation

Gex Dr	0.09	1,041	3	Major Collector	40.2961	\$16,141
Golf Club Drive	0.24	2,772	3	Major Collector	37.0701	\$46,742
Ahui St	0.07	768	3	Local	4.0297	\$11,909
Bayou Dr	0.05	509	3	Local	4.0295	\$7,897
Kepuhi Ct	0.05	501	3	LO/DE/CS	1.6119	\$7,764
Kaiki Ct	0.04	468	3	LO/DE/CS	1.6119	\$7,251
Leisure Time Ln	0.05	543	3	LO/DE/CS	1.6119	\$8,421
Park Ten Dr	0.22	2,538	3	LO/DE/CS	1.6119	\$39,367
Noma Dr	0.39	4,536	3	LO/DE/CS	1.6119	\$70,351
Gex Rd	0.06	646	3	LO/DE/CS	1.6118	\$10,019
Kalo Ct	0.07	791	3	LO/DE/CS	1.6118	\$12,274
<u>Totals</u>	<u>1.32</u>	<u>15,112</u>	<u>3</u>			<u>\$238,136</u>

Structural Overlay

Diamondhead Dr E	0.06	506	4	Major Collector	34.7541	\$5,458
Diamondhead Dr E	0.03	201	4	Major Collector	34.7440	\$2,169

Roadway Name	Length (Miles)	Square Yards	RSR	Class	CBF	Repair Est.
Diamondhead Dr E	0.87	10,242	4	Major Collector	30.8870	\$124,343
Kome Dr	0.05	561	4	Local	3.4754	\$6,048
Amoka Dr	0.07	642	4	Local	3.4754	\$6,923
Ieke Dr	0.06	521	4	Local	3.4753	\$5,617
Kipapa Way	0.18	2,103	4	Local	3.4751	\$22,693
Bambo St	0.21	2,491	4	Local	3.4751	\$26,877
Ana Hulu St	0.13	1,494	4	Local	3.4751	\$16,126
Banyan Pl	0.04	520	4	Local	3.4749	\$5,611
Alu Ct	0.05	500	4	LO/DE/CS	1.3901	\$5,393
Ahia Ct	0.11	1,039	4	LO/DE/CS	1.3901	\$11,206
Pono Pl	0.11	1,008	4	LO/DE/CS	1.3901	\$10,880
Banian Pl	0.18	2,138	4	LO/DE/CS	1.3901	\$23,066
Hau St	0.15	1,707	4	LO/DE/CS	1.3900	\$18,419
Noma Pl	0.08	757	4	LO/DE/CS	1.3900	\$8,172
Luakini Pl	0.13	1,478	4	LO/DE/CS	1.3900	\$15,953
Amoka Ct	0.07	637	4	LO/DE/CS	1.3900	\$6,879
Akaka Ct	0.10	924	4	LO/DE/CS	1.3900	\$9,974
Totals	2.67	29,467	4			\$331,807

Cape Seal

Kapalama Dr	0.42	4,888	5	Major Collector	28.2676	\$43,233
Kome Dr	0.03	355	5	Local	3.3363	\$2,660
Lola Way	0.05	516	5	Local	3.3363	\$3,864
Country Club Cir	0.06	890	5	Local	3.3362	\$6,667
Maui St	0.07	827	5	Local	3.3362	\$6,196
Koloa St	0.11	1,269	5	Local	3.3361	\$9,507
Hilo Way	0.24	1,834	5	Local	3.3361	\$13,744
Pokai Way	0.10	1,106	5	Local	3.3361	\$8,289
Kaleki Way	0.28	2,584	5	Local	3.3361	\$19,361
Maui Cir	0.28	3,310	5	Local	3.3361	\$24,805
Harbor Cir	0.23	2,703	5	Local	3.3361	\$20,255
Oaks Blvd	0.06	584	5	Local	3.3361	\$4,380
Apelehama Rd	0.32	3,385	5	Local	3.3360	\$25,367
Ieke Cir	0.19	1,824	5	Local	3.3360	\$13,668
Kiko St	0.25	2,611	5	Local	3.3360	\$19,563

Roadway Name	Length (Miles)	Square Yards	RSR	Class	CBF	Repair Est.
Kaiki Dr	0.19	2,200	5	Local	3.3360	\$16,486
Kaimu St	0.14	1,640	5	Local	3.3360	\$12,290
Kahana St	0.25	2,912	5	Local	3.3360	\$21,820
Kalae St	0.25	2,963	5	Local	3.3360	\$22,208
Ieke Dr	0.37	3,445	5	Local	3.3360	\$25,814
Bayou Cir	0.21	1,938	5	Local	3.3360	\$14,522
Lola Dr	0.44	4,086	5	Local	3.3360	\$30,622
Ana Hulu St	0.27	3,125	5	Local	3.3360	\$23,417
Aila St	0.38	4,400	5	Local	3.3360	\$32,976
Hamakua St	0.15	1,796	5	Local	3.3360	\$13,456
Fairway Dr	0.29	3,092	5	Local	3.3360	\$23,172
Ala Moana St	0.44	5,165	5	Local	3.3360	\$38,710
Anela Dr	0.42	3,944	5	Local	3.3360	\$29,558
Kolo Way	0.34	3,149	5	Local	3.3360	\$23,602
Linohau Way	0.36	3,840	5	Local	3.3360	\$28,775
Ahoni St	0.27	3,202	5	Local	3.3360	\$23,999
Akikai Dr	0.25	2,930	5	Local	3.3360	\$21,959
Op Ia Way	0.41	3,853	5	Local	3.3360	\$28,877
Diamondhead Dr S	0.37	3,218	5	Local	3.3359	\$24,118
Bayou Dr	0.36	3,351	5	Local	3.3359	\$25,112
Hilo St	0.22	1,700	5	Local	3.3359	\$12,738
Laa Ia Way	0.05	511	5	Local	3.3358	\$3,830
Anela Ct	0.06	546	5	Local	3.3358	\$4,092
Ahi St	0.06	539	5	Local	3.3357	\$4,039
Noma Dr	0.31	3,253	5	Local	2.7797	\$29,258
N Fairway Dr	0.02	198	5	LO/DE/CS	1.3348	\$1,485
Rabbit Run	0.03	291	5	LO/DE/CS	1.3346	\$2,182
Lae Ct	0.04	379	5	LO/DE/CS	1.3346	\$2,843
Pokai St	0.04	471	5	LO/DE/CS	1.3346	\$3,529
Kaena Ct	0.03	369	5	LO/DE/CS	1.3345	\$2,765
Pelican Cove	0.07	787	5	LO/DE/CS	1.3345	\$5,900
Ala Moana Ct	0.06	711	5	LO/DE/CS	1.3345	\$5,331
Camp Site Rd	0.04	338	5	LO/DE/CS	1.3345	\$2,530
Pokai Ct	0.03	341	5	LO/DE/CS	1.3345	\$2,555
Hanauma Ct	0.06	656	5	LO/DE/CS	1.3345	\$4,915

Roadway Name	Length (Miles)	Square Yards	RSR	Class	CBF	Repair Est.
Hale Ct	0.08	882	5	LO/DE/CS	1.3345	\$6,606
Kimo Ct	0.05	509	5	LO/DE/CS	1.3345	\$3,816
Awini St	0.06	678	5	LO/DE/CS	1.3345	\$5,079
Awini Ct	0.06	673	5	LO/DE/CS	1.3345	\$5,046
Fox Trot	0.04	399	5	LO/DE/CS	1.3345	\$2,991
Anoai Ct	0.04	505	5	LO/DE/CS	1.3345	\$3,783
Aulena Ct	0.05	562	5	LO/DE/CS	1.3345	\$4,210
Amoka Pl	0.10	902	5	LO/DE/CS	1.3345	\$6,760
Kaena Pl	0.14	1,503	5	LO/DE/CS	1.3345	\$11,263
Loulu Pl	0.15	1,776	5	LO/DE/CS	1.3344	\$13,308
Iolani Ct	0.10	1,097	5	LO/DE/CS	1.3344	\$8,217
Hoaka Ln	0.05	518	5	LO/DE/CS	1.3344	\$3,884
Banyan Pl	0.06	738	5	LO/DE/CS	1.3344	\$5,533
Koko Pl	0.14	1,599	5	LO/DE/CS	1.3344	\$11,986
Malino Pl	0.09	1,090	5	LO/DE/CS	1.3344	\$8,167
Lumahai Pl	0.13	1,475	5	LO/DE/CS	1.3344	\$11,057
Loa Ct	0.06	672	5	LO/DE/CS	1.3344	\$5,037
Laie Ct	0.12	1,372	5	LO/DE/CS	1.3344	\$10,282
Apaki Pl	0.18	2,136	5	LO/DE/CS	1.3344	\$16,010
Haleiwa Pl	0.20	1,916	5	LO/DE/CS	1.3344	\$14,359
Pine Ridge Blvd	0.17	1,972	5	LO/DE/CS	1.3344	\$14,781
Hilo Pl	0.14	1,623	5	LO/DE/CS	1.3344	\$12,164
Hana Pl	0.18	2,123	5	LO/DE/CS	1.3344	\$15,906
Pine Ridge Ct	0.04	426	5	LO/DE/CS	1.3344	\$3,195
Oliwa Pl	0.09	916	5	LO/DE/CS	1.3344	\$6,868
Apona St	0.23	2,693	5	LO/DE/CS	1.3344	\$20,178
Bayou Ct	0.04	401	5	LO/DE/CS	1.3344	\$3,004
Muolea Ct	0.11	1,238	5	LO/DE/CS	1.3344	\$9,277
Mohonua Pl	0.10	930	5	LO/DE/CS	1.3344	\$6,973
Maui Ct	0.06	692	5	LO/DE/CS	1.3344	\$5,189
Holly Corner	0.03	302	5	LO/DE/CS	1.3344	\$2,260
Iona St	0.07	720	5	LO/DE/CS	1.3344	\$5,399
Hilo Ct	0.06	695	5	LO/DE/CS	1.3344	\$5,209
Devils Elbow	0.22	2,557	5	LO/DE/CS	1.3344	\$19,159
Kalipekona Way	0.11	1,035	5	LO/DE/CS	1.3344	\$7,757
Malahini Pl	0.07	704	5	LO/DE/CS	1.3344	\$5,275

Roadway Name	Length (Miles)	Square Yards	RSR	Class	CBF	Repair Est.
Indian Hill Dr	0.06	1,021	5	LO/DE/CS	1.3344	\$7,650
Maui Pl	0.19	2,254	5	LO/DE/CS	1.3344	\$16,894
Op la Ct	0.08	750	5	LO/DE/CS	1.3344	\$5,621
Honomu Pl	0.14	1,660	5	LO/DE/CS	1.3344	\$12,440
Ala Moana St	0.06	707	5	LO/DE/CS	1.3344	\$5,295
Hanauma Pl	0.04	466	5	LO/DE/CS	1.3344	\$3,491
Maui St	0.05	622	5	LO/DE/CS	1.3344	\$4,658
Oahu St	0.21	2,479	5	LO/DE/CS	1.3344	\$18,580
Apuwai Pl	0.14	1,613	5	LO/DE/CS	1.3344	\$12,087
Anela Pl	0.15	1,383	5	LO/DE/CS	1.3344	\$10,367
Mahalo Hui Dr	0.07	755	5	LO/DE/CS	1.3344	\$5,660
Kalalau St	0.16	1,921	5	LO/DE/CS	1.3344	\$14,396
Leisure Time Dr	0.25	2,918	5	LO/DE/CS	1.3344	\$21,866
Hapuna Pl	0.09	1,083	5	LO/DE/CS	1.3344	\$8,118
Loa Pl	0.13	1,503	5	LO/DE/CS	1.3344	\$11,267
Koko St	0.09	1,080	5	LO/DE/CS	1.3344	\$8,094
Quail Creek Dr	0.04	333	5	LO/DE/CS	1.3344	\$2,495
Hanauma St	0.16	1,687	5	LO/DE/CS	1.3344	\$12,645
Paani Ct	0.14	1,608	5	LO/DE/CS	1.3344	\$12,054
Koula Pl	0.08	806	5	LO/DE/CS	1.3343	\$6,043
Diamondhead Dr E	0.04	451	5	LO/DE/CS	1.3343	\$3,382
Timber Park	0.04	369	5	LO/DE/CS	1.3343	\$2,766
Pahoa Ct	0.09	1,028	5	LO/DE/CS	1.3343	\$7,705
Alakoko Ct	0.08	872	5	LO/DE/CS	1.3343	\$6,538
Turnberry Ct	0.04	438	5	LO/DE/CS	1.3343	\$3,282
Anuaea St	0.06	738	5	LO/DE/CS	1.3343	\$5,529
Woodcock Cir	0.03	295	5	LO/DE/CS	1.3343	\$2,213
Honomu Ct	0.06	723	5	LO/DE/CS	1.3343	\$5,421
Lanai Ct	0.06	724	5	LO/DE/CS	1.3343	\$5,428
Cypress Knee Dr	0.03	280	5	LO/DE/CS	1.3343	\$2,096
Kui Pl	0.03	309	5	LO/DE/CS	1.3343	\$2,313
Leke Pl	0.04	395	5	LO/DE/CS	1.3343	\$2,964
Anela St	0.08	722	5	LO/DE/CS	1.3343	\$5,411
Heleiwa Ct	0.06	525	5	LO/DE/CS	1.3343	\$3,937
Pono St	0.07	668	5	LO/DE/CS	1.3343	\$5,007

Roadway Name	Length (Miles)	Square Yards	RSR	Class	CBF	Repair Est.
Hamakua Ct	0.04	472	5	LO/DE/CS	1.3343	\$3,535
Kaena St	0.06	610	5	LO/DE/CS	1.3343	\$4,574
Kalae Ct	0.02	273	5	LO/DE/CS	1.3343	\$2,046
Apona Ct	0.04	502	5	LO/DE/CS	1.3342	\$3,763
Pecan Ridge	0.03	270	5	LO/DE/CS	1.3342	\$2,021
Dogwood Cir	0.04	392	5	LO/DE/CS	1.3342	\$2,938
Stag Ct	0.03	253	5	LO/DE/CS	1.3342	\$1,893
Possum Way	0.04	344	5	LO/DE/CS	1.3342	\$2,581
Totals	17.02	182,362	5			\$1,378,096

Thin Lift

W Aloha Dr	0.10	2,554	5	Minor Arterial	61.4996	\$26,993
Kalani Dr	0.03	684	5	Minor Arterial	61.4979	\$7,230
Kalani Dr	0.25	2,937	5	Minor Arterial	58.9896	\$32,364
Diamondhead Dr E	0.04	249	5	Major Collector	25.8589	\$2,409
Diamondhead Dr E	4.86	38,473	5	Major Collector	25.8558	\$371,995
Golf Club Dr	0.14	1,515	5	Major Collector	25.8558	\$14,653
Diamondhead Dr W	0.33	2,600	5	Major Collector	25.8557	\$25,142
Gex Dr	0.46	5,385	5	Major Collector	25.8557	\$52,067
Diamondhead Dr N	0.19	1,529	5	Major Collector	25.8555	\$14,781
Golf Club Dr	1.31	15,357	5	Major Collector	22.6881	\$169,224
Diamondhead Dr E	0.11	1,314	5	Major Collector	22.6874	\$14,474
Airport Dr	0.30	2,628	5	Local	2.5856	\$25,409
Totals	8.12	75,225	5			\$756,741

Microsurfacing

W Aloha Dr	0.07	1,895	6	Minor Arterial	57.6932	\$12,457
Gex Dr	0.36	4,200	6	Minor Arterial	53.9970	\$29,494
Diamondhead Cir	0.06	759	6	Major Collector	25.7134	\$4,305
Diamondhead Dr N	0.10	768	6	Major Collector	25.7124	\$4,357
Diamondhead Dr N	0.22	1,708	6	Major Collector	25.7123	\$9,685
Diamondhead Dr E	0.28	3,328	6	Major Collector	25.7115	\$18,876
Diamondhead Dr E	0.36	2,846	6	Major Collector	25.7113	\$16,142
Diamondhead Dr W	2.12	16,777	6	Major Collector	25.7110	\$95,162
Diamondhead Dr E	0.14	1,518	6	Major Collector	25.7106	\$8,609

Roadway Name	Length (Miles)	Square Yards	RSR	Class	CBF	Repair Est.
Kapalama Dr	0.07	776	6	Major Collector	20.7682	\$5,451
Analii St	0.35	3,299	6	Local Collector	10.2847	\$18,710
Harbor Cir	0.05	537	6	Local	2.5714	\$3,043
Manoo St	0.06	663	6	Local	2.5714	\$3,759
Whispering Branch Way	0.04	393	6	Local	2.5714	\$2,227
Analii St	0.06	547	6	Local	2.5714	\$3,105
Kiko St	0.12	1,311	6	Local	2.5713	\$7,434
Kolo Way	0.13	1,264	6	Local	2.5712	\$7,171
Anela St	0.06	522	6	Local	2.5712	\$2,958
Lanai Vlg	0.22	2,594	6	Local	2.5712	\$14,712
Akoko St	0.12	1,400	6	Local	2.5712	\$7,942
Laa la Way	0.28	2,613	6	Local	2.5712	\$14,818
Pokai St	0.29	3,405	6	Local	2.5712	\$19,315
Wilderness Run	0.10	921	6	Local	2.5712	\$5,226
Oaks Blvd	0.47	4,405	6	Local	2.5711	\$24,983
Iona St	0.24	2,538	6	Local	2.5711	\$14,397
Koula Dr	0.31	3,300	6	Local	2.5711	\$18,719
Koloa St	0.24	2,795	6	Local	2.5711	\$15,854
Fairway Dr	0.12	1,306	6	Local	2.5711	\$7,409
Pokai Way	0.39	4,247	6	Local	2.5711	\$24,089
Airport Dr	1.06	9,367	6	Local	2.5711	\$53,131
Ahekolo Cir	0.38	4,028	6	Local	2.5711	\$22,848
Luawai Way	0.33	3,521	6	Local	2.5711	\$19,971
Turnberry Dr	0.84	9,847	6	Local	2.5711	\$55,850
Op la Way	0.45	4,207	6	Local	2.5711	\$23,860
Cherryhill Dr	0.30	3,553	6	Local	2.5711	\$20,154
Highpoint Dr	0.74	8,678	6	Local	2.5711	\$49,223
Hilo Way	2.03	15,488	6	Local	2.5711	\$87,851
Bayou Dr	0.64	5,970	6	Local	2.5711	\$33,864
Maili Way	0.31	3,627	6	Local	2.5711	\$20,570
Apelehama Rd	0.23	2,448	6	Local	2.5711	\$13,888
Kaiki Dr	0.36	4,195	6	Local	2.5711	\$23,795
Ahui St	0.13	1,328	6	Local	2.5711	\$7,532
Airport Cir	0.29	2,548	6	Local	2.5711	\$14,451
Ahihi St	0.21	2,200	6	Local	2.5711	\$12,478

Roadway Name	Length (Miles)	Square Yards	RSR	Class	CBF	Repair Est.
Kahana St	0.34	3,959	6	Local	2.5711	\$22,454
Alkii Way	0.40	4,635	6	Local	2.5711	\$26,290
Makiki Dr	0.29	2,769	6	Local	2.5711	\$15,705
Kipapa Way	0.30	3,479	6	Local	2.5710	\$19,736
Ala Moana St	0.10	1,192	6	Local	2.5710	\$6,762
Country Club Cir	0.16	2,320	6	Local	2.5710	\$13,159
Malie Pl	0.09	1,039	6	Local	2.5710	\$5,896
Haina St E	0.10	1,145	6	Local	2.5710	\$6,493
Hoaka Ln	0.05	578	6	Local	2.5709	\$3,277
Hamakua St	0.07	826	6	Local	2.5709	\$4,686
Akaka St	0.06	527	6	Local	2.5708	\$2,989
Aloha Cir	0.04	491	6	Local	2.0769	\$3,449
Lanai St	0.17	1,990	6	Local	2.0768	\$13,975
Mahalo Hui Dr	0.41	4,832	6	Local	2.0768	\$33,928
Alakoko Dr	0.32	3,720	6	Local	2.0768	\$26,120
Kapalama Dr	0.20	2,353	6	Local	2.0768	\$16,524
Mahalohui Dr	0.14	1,652	6	Local	2.0768	\$11,604
Noma Dr	0.06	618	6	Local	2.0332	\$4,432
Iona Ct	0.02	190	6	LO/DE/CS	1.0288	\$1,078
Anela Ct	0.03	302	6	LO/DE/CS	1.0287	\$1,713
Malino Way	0.05	537	6	LO/DE/CS	1.0286	\$3,048
Huko Ct	0.05	544	6	LO/DE/CS	1.0286	\$3,084
Halawa Ct	0.04	491	6	LO/DE/CS	1.0286	\$2,784
Kunia Ct	0.04	458	6	LO/DE/CS	1.0286	\$2,600
Puako Ct	0.05	617	6	LO/DE/CS	1.0286	\$3,499
Kalikimaka Pl	0.07	651	6	LO/DE/CS	1.0286	\$3,691
Facilities Maint Dr	0.05	541	6	LO/DE/CS	1.0285	\$3,070
Apaki Pl	0.07	780	6	LO/DE/CS	1.0285	\$4,424
Haiku Ct	0.09	1,016	6	LO/DE/CS	1.0285	\$5,763
Olu Dr	0.07	772	6	LO/DE/CS	1.0285	\$4,380
Kale St	0.10	937	6	LO/DE/CS	1.0285	\$5,315
Maili Ct	0.07	813	6	LO/DE/CS	1.0285	\$4,613
Apelehama Pl	0.09	995	6	LO/DE/CS	1.0285	\$5,641
Kimo Ct	0.12	1,138	6	LO/DE/CS	1.0285	\$6,453
Hanalei Pl	0.10	1,160	6	LO/DE/CS	1.0285	\$6,581
Ahuli Pl	0.07	688	6	LO/DE/CS	1.0285	\$3,902

Roadway Name	Length (Miles)	Square Yards	RSR	Class	CBF	Repair Est.
Kaimu St	0.04	424	6	LO/DE/CS	1.0285	\$2,405
Kaluaopalena Pl	0.08	770	6	LO/DE/CS	1.0285	\$4,368
Mohonua Pl	0.15	1,376	6	LO/DE/CS	1.0285	\$7,805
Lono Pl	0.13	1,180	6	LO/DE/CS	1.0285	\$6,695
Auiki Pl	0.09	1,065	6	LO/DE/CS	1.0285	\$6,043
Apelehama Cir	0.11	1,116	6	LO/DE/CS	1.0285	\$6,330
Akamu Ct	0.06	672	6	LO/DE/CS	1.0285	\$3,813
Alii Pl	0.08	851	6	LO/DE/CS	1.0285	\$4,829
Kipona Ct	0.08	706	6	LO/DE/CS	1.0285	\$4,007
Cherryhill Dr	0.07	787	6	LO/DE/CS	1.0285	\$4,463
Aupuni Pl	0.12	1,377	6	LO/DE/CS	1.0285	\$7,811
Auahi Pl	0.06	668	6	LO/DE/CS	1.0285	\$3,789
Turnberry Way	0.14	1,636	6	LO/DE/CS	1.0285	\$9,278
Harbor Ct	0.05	594	6	LO/DE/CS	1.0285	\$3,367
Kanoa Way	0.16	1,856	6	LO/DE/CS	1.0285	\$10,526
Op la Pl	0.08	705	6	LO/DE/CS	1.0285	\$3,999
Construction Rd	0.15	1,759	6	LO/DE/CS	1.0285	\$9,978
Kimo Pl	0.10	932	6	LO/DE/CS	1.0285	\$5,284
Lakeside Villa	0.13	1,477	6	LO/DE/CS	1.0285	\$8,380
Oakmont Way	0.10	1,211	6	LO/DE/CS	1.0285	\$6,867
Puna Pl	0.08	952	6	LO/DE/CS	1.0285	\$5,402
Apuwai Pl	0.11	1,279	6	LO/DE/CS	1.0285	\$7,255
Coelho Way	0.45	5,251	6	LO/DE/CS	1.0285	\$29,781
Aulena Pl	0.17	2,042	6	LO/DE/CS	1.0285	\$11,583
Enos St	0.06	733	6	LO/DE/CS	1.0284	\$4,160
Ewa Ct	0.10	1,115	6	LO/DE/CS	1.0284	\$6,325
Maili Pl	0.08	956	6	LO/DE/CS	1.0284	\$5,424
Kaiki Cir	0.04	470	6	LO/DE/CS	1.0284	\$2,665
Tahiti Cir	0.05	515	6	LO/DE/CS	1.0284	\$2,921
Bayou Pl	0.13	1,251	6	LO/DE/CS	1.0284	\$7,096
Kipapa Ct	0.06	670	6	LO/DE/CS	1.0284	\$3,798
Highpoint Dr	0.23	2,677	6	LO/DE/CS	1.0284	\$15,186
Oahu Ct	0.16	1,880	6	LO/DE/CS	1.0284	\$10,664
Whispering Branch Way	0.13	1,227	6	LO/DE/CS	1.0284	\$6,961
Puna St	0.04	504	6	LO/DE/CS	1.0284	\$2,856

Roadway Name	Length (Miles)	Square Yards	RSR	Class	CBF	Repair Est.
Kawananakoa Pl	0.09	843	6	LO/DE/CS	1.0284	\$4,779
Kamehameha Pl	0.11	1,020	6	LO/DE/CS	1.0284	\$5,785
Ahuawa Pl	0.21	2,252	6	LO/DE/CS	1.0284	\$12,775
Laala Pl	0.13	1,224	6	LO/DE/CS	1.0284	\$6,941
Alewa Pl	0.10	1,081	6	LO/DE/CS	1.0284	\$6,134
Ahiahia Pl	0.06	638	6	LO/DE/CS	1.0284	\$3,621
Kale Pl	0.11	1,069	6	LO/DE/CS	1.0284	\$6,063
Laa la Pl	0.09	824	6	LO/DE/CS	1.0284	\$4,675
Awini St	0.16	1,846	6	LO/DE/CS	1.0284	\$10,471
Hapuna Pl	0.08	951	6	LO/DE/CS	1.0284	\$5,397
Honalo Pl	0.09	1,109	6	LO/DE/CS	1.0284	\$6,293
Poni Pl	0.10	944	6	LO/DE/CS	1.0284	\$5,353
Mauna Loa Pl	0.11	1,154	6	LO/DE/CS	1.0284	\$6,548
Noma Pl	0.05	497	6	LO/DE/CS	1.0284	\$2,817
Live Oak Ct	0.05	514	6	LO/DE/CS	1.0284	\$2,914
Mauna Loa Ct	0.10	1,069	6	LO/DE/CS	1.0284	\$6,066
Puna Ct	0.09	1,053	6	LO/DE/CS	1.0284	\$5,971
Hapuna St	0.06	655	6	LO/DE/CS	1.0283	\$3,714
Kome Pl	0.07	708	6	LO/DE/CS	1.0283	\$4,017
Kalipekona Ct	0.08	704	6	LO/DE/CS	1.0283	\$3,995
Alkii Ct	0.04	429	6	LO/DE/CS	1.0283	\$2,432
Lakeview Ct	0.06	686	6	LO/DE/CS	1.0283	\$3,891
Lae Pl	0.07	657	6	LO/DE/CS	1.0283	\$3,729
Polo Ct	0.03	339	6	LO/DE/CS	1.0282	\$1,922
Kolo Ct	0.03	323	6	LO/DE/CS	1.0282	\$1,831
Alkii Pl	0.03	324	6	LO/DE/CS	1.0282	\$1,837
Aloha Cir	0.03	349	6	LO/DE/CS	0.8306	\$2,454
Totals	<u>26.27</u>	<u>270,347</u>	<u>6</u>			<u>\$1,563,532</u>

Fog and Crack Seal (20')

Gex Dr	0.04	1,579	7	Minor Arterial	53.5751	\$4,105
Gex Dr	0.30	3,528	7	Major Collector	31.5145	\$5,997
Diamondhead Dr W	1.09	8,633	7	Major Collector	31.5136	\$14,675
Diamondhead Dr N	2.46	19,472	7	Major Collector	31.5133	\$33,101
Ahui St	0.15	1,634	7	Major Collector	31.5083	\$2,778

Roadway Name	Length (Miles)	Square Yards	RSR	Class	CBF	Repair Est.
Diamondhead Cir	0.14	1,638	7	Major Collector	31.5077	\$2,785
Diamondhead Dr E	0.52	6,151	7	Major Collector	25.5252	\$12,909
Golf Club Dr	0.28	3,307	7	Major Collector	17.5634	\$10,086
Yacht Club Dr	0.31	2,732	7	Local Collector	12.6060	\$4,644
Airport Dr	0.05	427	7	Local	3.1533	\$726
Yacht Club Cir	0.13	1,181	7	Local	3.1520	\$2,008
Anoai Way	0.18	2,128	7	Local	3.1516	\$3,618
Vaught Cir	0.22	2,593	7	Local	3.1516	\$4,407
Make Way	0.26	3,109	7	Local	3.1515	\$5,285
Country Club Cir	0.14	2,030	7	Local	3.1515	\$3,451
Makiki Dr	0.21	2,018	7	Local	3.1515	\$3,430
Limu Way	0.42	4,472	7	Local	3.1514	\$7,602
Mauna Loa Dr	0.24	2,495	7	Local	3.1514	\$4,241
Apua St	0.20	2,118	7	Local	3.1513	\$3,601
Koloa St	0.25	2,947	7	Local	3.1513	\$5,010
Alakoko Dr	0.38	3,962	7	Local	3.1513	\$6,735
Lilinoe Way	0.49	5,189	7	Local	3.1512	\$8,822
Laa la Way	0.15	1,398	7	Local	3.1512	\$2,376
Manoo St	0.17	1,956	7	Local	3.1512	\$3,326
Analii St	0.29	2,681	7	Local	3.1512	\$4,558
Ahekolo Cir	0.34	3,568	7	Local	3.1511	\$6,066
Koloa St	0.27	2,888	7	Local	3.1511	\$4,910
Lanai Vlg	0.28	3,249	7	Local	3.1511	\$5,523
Noma Dr	0.34	4,039	7	Local	3.1511	\$6,867
Lola Dr	0.14	1,356	7	Local	3.1510	\$2,306
Amoka Dr	0.13	1,178	7	Local	3.1510	\$2,003
Linohau Way	0.20	2,067	7	Local	3.1509	\$3,515
Kini St	0.16	1,712	7	Local	3.1509	\$2,911
Ahi Dr	0.20	1,904	7	Local	3.1508	\$3,237
Kino St	0.15	1,533	7	Local	3.1508	\$2,606
Oio Pl	0.06	710	7	Local	3.1503	\$1,207
Lilinoe Pl	0.05	579	7	Local	3.1502	\$985
Kapalama Dr	0.65	7,575	7	Local	1.7565	\$23,104
Lanai St	0.04	433	7	Local	1.7563	\$1,320
Hilo St	0.17	1,946	7	Local	1.7563	\$5,935
Shepherd Sq	0.15	1,703	7	Local	1.7563	\$5,195

Roadway Name	Length (Miles)	Square Yards	RSR	Class	CBF	Repair Est.
Noma Dr	0.23	2,438	7	Local	1.6741	\$7,801
Pueo Ct	0.04	385	7	LO/DE/CS	1.2612	\$654
Manoo Ct	0.05	539	7	LO/DE/CS	1.2611	\$916
Lola Ct	0.04	375	7	LO/DE/CS	1.2609	\$638
Aumoae Ct	0.08	900	7	LO/DE/CS	1.2608	\$1,529
Ahi Ct	0.10	983	7	LO/DE/CS	1.2608	\$1,671
Kanoa Way	0.09	1,048	7	LO/DE/CS	1.2608	\$1,781
Lilinoe Pl	0.07	705	7	LO/DE/CS	1.2607	\$1,199
Alii Pl	0.13	1,365	7	LO/DE/CS	1.2607	\$2,321
Kaleki Pl	0.06	572	7	LO/DE/CS	1.2607	\$973
Manoo Pl	0.14	1,645	7	LO/DE/CS	1.2607	\$2,796
Kino Pl	0.13	1,356	7	LO/DE/CS	1.2606	\$2,305
Lanai Pl	0.09	1,065	7	LO/DE/CS	1.2606	\$1,811
Iki Pl	0.12	1,361	7	LO/DE/CS	1.2606	\$2,314
Kono Pl	0.08	781	7	LO/DE/CS	1.2606	\$1,327
Maunalani Pl	0.25	2,300	7	LO/DE/CS	1.2606	\$3,910
Poki Pl	0.16	1,919	7	LO/DE/CS	1.2606	\$3,262
Mamalu Pl	0.09	999	7	LO/DE/CS	1.2606	\$1,698
Puna Pl	0.05	636	7	LO/DE/CS	1.2606	\$1,081
Pinehurst Ct	0.04	429	7	LO/DE/CS	1.2605	\$729
Crooked Stick Dr	0.33	3,866	7	LO/DE/CS	1.2605	\$6,572
Apelehama Ct	0.07	770	7	LO/DE/CS	1.2605	\$1,309
Makiki Ct	0.05	469	7	LO/DE/CS	1.2605	\$797
Puunani Pl	0.14	1,655	7	LO/DE/CS	1.2605	\$2,814
Kalaepohuku Dr	0.54	6,301	7	LO/DE/CS	1.2605	\$10,712
Mapunapuna Dr	0.15	1,737	7	LO/DE/CS	1.2604	\$2,953
Hanakealoha Pl	0.15	1,769	7	LO/DE/CS	1.2604	\$3,008
Kaumakapili St	0.37	4,373	7	LO/DE/CS	1.2604	\$7,434
Kaimuki Ct	0.15	1,784	7	LO/DE/CS	1.2604	\$3,033
Kini Pl	0.08	887	7	LO/DE/CS	1.2604	\$1,508
Gex Rd	0.13	1,563	7	LO/DE/CS	1.2604	\$2,657
Laa la Ct	0.11	1,010	7	LO/DE/CS	1.2603	\$1,718
Haena Ct	0.07	759	7	LO/DE/CS	1.2603	\$1,291
Shepherd Sq	0.17	2,041	7	LO/DE/CS	1.2603	\$3,471
Luawai Pl	0.17	1,796	7	LO/DE/CS	1.2603	\$3,053

Roadway Name	Length (Miles)	Square Yards	RSR	Class	CBF	Repair Est.
Limu Pl	0.12	1,218	7	LO/DE/CS	1.2603	\$2,071
Augusta Way	0.12	1,416	7	LO/DE/CS	1.2603	\$2,408
Kapalama Dr	0.17	1,173	7	LO/DE/CS	1.2603	\$1,995
Koloa Ct	0.09	984	7	LO/DE/CS	1.2603	\$1,673
Anahola Ct	0.06	732	7	LO/DE/CS	1.2603	\$1,245
Ahuli Pl	0.13	1,365	7	LO/DE/CS	1.2603	\$2,321
Lualini Pl	0.14	1,508	7	LO/DE/CS	1.2603	\$2,564
Kaleki Ct	0.05	480	7	LO/DE/CS	1.2602	\$817
Apua Ct	0.04	402	7	LO/DE/CS	1.2602	\$684
Troon Ct	0.04	455	7	LO/DE/CS	1.2602	\$774
Kaimuki St	0.06	680	7	LO/DE/CS	1.2602	\$1,157
Ahiahia Pl	0.06	655	7	LO/DE/CS	1.2602	\$1,114
Hawi Ct	0.05	535	7	LO/DE/CS	1.2602	\$910
Oio Pl	0.08	974	7	LO/DE/CS	1.2601	\$1,656
Doral Ct	0.03	322	7	LO/DE/CS	1.2600	\$548
Kalae Ct	0.04	413	7	LO/DE/CS	1.2599	\$702
St Andrews Ct	0.03	309	7	LO/DE/CS	1.2598	\$525
Alakoko Dr	0.04	507	7	LO/DE/CS	1.2598	\$862
Alewa Pl	0.05	478	7	LO/DE/CS	1.2598	\$813
Lamaloa Ct	0.04	468	7	LO/DE/CS	1.2597	\$796
Kini Ct	0.04	417	7	LO/DE/CS	1.2597	\$709
Spyglass Ct	0.03	339	7	LO/DE/CS	1.2597	\$577
Lilinoe Ct	0.03	366	7	LO/DE/CS	1.2596	\$622
Live Oak Dr	0.07	1,233	7	LO/DE/CS	0.7026	\$3,761
Totals	18.73	195,831	7			\$362,316

Fog and Crack Seal (40')

Diamondhead Dr E	0.93	7,374	8	Major Collector	37.5017	\$9,217
Diamondhead Dr E	0.03	400	8	Local Collector	7.2124	\$1,039
Kome Dr	0.43	4,540	8	Local	3.7503	\$5,675
Kahala Dr	0.39	3,679	8	Local	3.7503	\$4,598
Kalipekona Way	0.37	4,354	8	Local	3.7501	\$5,442
Alawai Ave	0.30	3,560	8	Local	3.7501	\$4,450
Mauna Loa Dr	0.32	3,342	8	Local	3.7500	\$4,178
Manini Way	0.38	4,498	8	Local	3.7499	\$5,623

Roadway Name	Length (Miles)	Square Yards	RSR	Class	CBF	Repair Est.
Moanalua Way	0.52	6,109	8	Local	3.7499	\$7,636
Amoka Dr	0.30	2,862	8	Local	3.7498	\$3,578
Kalae St	0.15	1,736	8	Local	3.7498	\$2,170
Hanalei Cir	0.35	4,134	8	Local	3.7498	\$5,168
Ahi Dr	0.17	1,634	8	Local	3.7495	\$2,043
Koloa St	0.06	697	8	Local	3.7487	\$872
Veterans Dr	0.15	2,334	8	Local	2.0485	\$5,340
Hilo St	0.24	2,803	8	Local	1.8029	\$7,289
Mauna Pl	0.05	492	8	LO/DE/CS	1.5011	\$614
Ewa Pl	0.13	1,487	8	LO/DE/CS	1.5003	\$1,859
Laie St	0.21	2,427	8	LO/DE/CS	1.5002	\$3,033
Laie Pl	0.15	1,732	8	LO/DE/CS	1.5001	\$2,165
Kailua Pl	0.23	2,697	8	LO/DE/CS	1.5001	\$3,371
Ewa St	0.09	999	8	LO/DE/CS	1.5001	\$1,249
Mamalu Pl	0.05	558	8	LO/DE/CS	1.5000	\$698
Crooked Stick Dr	0.11	1,259	8	LO/DE/CS	1.5000	\$1,574
Anela St	0.02	197	8	LO/DE/CS	1.4999	\$246
Anahola Pl	0.23	2,699	8	LO/DE/CS	1.4999	\$3,374
Hana Ct	0.06	717	8	LO/DE/CS	1.4997	\$897
Alakoko Pl	0.09	986	8	LO/DE/CS	1.4996	\$1,233
Aukai Pl	0.06	714	8	LO/DE/CS	1.4993	\$893
Kome Ct	0.04	434	8	LO/DE/CS	1.4988	\$543
Maunalani Pl	0.03	296	8	LO/DE/CS	1.4982	\$371
<u>Totals</u>	<u>6.65</u>	<u>71,752</u>	<u>8</u>			<u>\$96,438</u>

Defer Treatment

Hamakua St	0.10	1,129	10	Local	0.0000	\$0
<u>Totals</u>	<u>0.10</u>	<u>1,129</u>	<u>10</u>			<u>\$0</u>
Grand Totals	81.54	848,966				\$4,950,624

City of Diamondhead, Mississippi

Asphalt Roads: Overall Sorted Alphabetically

Roadway Name	Classification	Repair	Length (Miles)	Square Yards	RSR	CBF	Repair Est.
Ahekolo Cir	Local	Microsurfacing	0.38	4,028	6	2.5711	\$22,848
Ahekolo Cir	Local	Fog and Crack Seal (20')	0.34	3,568	7	3.1511	\$6,066
Ahi Ct	LO/DE/CS	Fog and Crack Seal (20')	0.10	983	7	1.2608	\$1,671
Ahi Dr	Local	Fog and Crack Seal (20')	0.20	1,904	7	3.1508	\$3,237
Ahi Dr	Local	Fog and Crack Seal (40')	0.17	1,634	8	3.7495	\$2,043
Ahi St	Local	Cape Seal	0.06	539	5	3.3357	\$4,039
Ahia Ct	LO/DE/CS	Structural Overlay	0.11	1,039	4	1.3901	\$11,206
Ahihi PI	LO/DE/CS	Microsurfacing	0.06	638	6	1.0284	\$3,621
Ahihi PI	LO/DE/CS	Fog and Crack Seal (20')	0.06	655	7	1.2602	\$1,114
Ahihi St	Local	Microsurfacing	0.21	2,200	6	2.5711	\$12,478
Ahoni St	Local	Cape Seal	0.27	3,202	5	3.3360	\$23,999
Ahuawa PI	LO/DE/CS	Microsurfacing	0.21	2,252	6	1.0284	\$12,775
Ahui St	Local	Rehabilitation	0.07	768	3	4.0297	\$11,909
Ahui St	Local	Microsurfacing	0.13	1,328	6	2.5711	\$7,532
Ahui St	Major Collector	Fog and Crack Seal (20')	0.15	1,634	7	31.5083	\$2,778
Ahuli PI	LO/DE/CS	Microsurfacing	0.07	688	6	1.0285	\$3,902
Ahuli PI	LO/DE/CS	Fog and Crack Seal (20')	0.13	1,365	7	1.2603	\$2,321
Aila St	Local	Cape Seal	0.38	4,400	5	3.3360	\$32,976
Airport Cir	Local	Microsurfacing	0.29	2,548	6	2.5711	\$14,451
Airport Dr	Local	Thin Lift	0.30	2,628	5	2.5856	\$25,409
Airport Dr	Local	Microsurfacing	1.06	9,367	6	2.5711	\$53,131
Airport Dr	Local	Fog and Crack Seal (20')	0.05	427	7	3.1533	\$726

Roadway Name	Classification	Repair	Length (Miles)	Square Yards	RSR	CBF	Repair Est.
Akaka Ct	LO/DE/CS	Structural Overlay	0.10	924	4	1.3900	\$9,974
Akaka St	Local	Microsurfacing	0.06	527	6	2.5708	\$2,989
Akamu Ct	LO/DE/CS	Microsurfacing	0.06	672	6	1.0285	\$3,813
Akikai Dr	Local	Cape Seal	0.25	2,930	5	3.3360	\$21,959
Akoko St	LO/DE/CS	Reconstruction	0.05	543	2	1.5949	\$15,319
Akoko St	Local	Microsurfacing	0.12	1,400	6	2.5712	\$7,942
Ala Moana Ct	LO/DE/CS	Cape Seal	0.06	711	5	1.3345	\$5,331
Ala Moana St	Local	Cape Seal	0.44	5,165	5	3.3360	\$38,710
Ala Moana St	LO/DE/CS	Cape Seal	0.06	707	5	1.3344	\$5,295
Ala Moana St	Local	Microsurfacing	0.10	1,192	6	2.5710	\$6,762
Alakoko Ct	LO/DE/CS	Cape Seal	0.08	872	5	1.3343	\$6,538
Alakoko Dr	Local	Microsurfacing	0.32	3,720	6	2.0768	\$26,120
Alakoko Dr	Local	Fog and Crack Seal (20')	0.38	3,962	7	3.1513	\$6,735
Alakoko Dr	LO/DE/CS	Fog and Crack Seal (20')	0.04	507	7	1.2598	\$862
Alakoko PI	LO/DE/CS	Fog and Crack Seal (40')	0.09	986	8	1.4996	\$1,233
Alawai Ave	Local	Fog and Crack Seal (40')	0.30	3,560	8	3.7501	\$4,450
Alewa PI	LO/DE/CS	Microsurfacing	0.10	1,081	6	1.0284	\$6,134
Alewa PI	LO/DE/CS	Fog and Crack Seal (20')	0.05	478	7	1.2598	\$813
Alii PI	LO/DE/CS	Microsurfacing	0.08	851	6	1.0285	\$4,829
Alii PI	LO/DE/CS	Fog and Crack Seal (20')	0.13	1,365	7	1.2607	\$2,321
Alkii Ct	LO/DE/CS	Microsurfacing	0.04	429	6	1.0283	\$2,432
Alkii PI	LO/DE/CS	Microsurfacing	0.03	324	6	1.0282	\$1,837
Alkii Way	Local	Microsurfacing	0.40	4,635	6	2.5711	\$26,290
Aloha Cir	Local	Microsurfacing	0.04	491	6	2.0769	\$3,449
Aloha Cir	LO/DE/CS	Microsurfacing	0.03	349	6	0.8306	\$2,454

Roadway Name	Classification	Repair	Length (Miles)	Square Yards	RSR	CBF	Repair Est.
Alu Ct	LO/DE/CS	Structural Overlay	0.05	500	4	1.3901	\$5,393
Amoka Ct	LO/DE/CS	Structural Overlay	0.07	637	4	1.3900	\$6,879
Amoka Dr	Local	Structural Overlay	0.07	642	4	3.4754	\$6,923
Amoka Dr	Local	Fog and Crack Seal (20')	0.13	1,178	7	3.1510	\$2,003
Amoka Dr	Local	Fog and Crack Seal (40')	0.30	2,862	8	3.7498	\$3,578
Amoka PI	LO/DE/CS	Cape Seal	0.10	902	5	1.3345	\$6,760
Ana Hulu St	Local	Structural Overlay	0.13	1,494	4	3.4751	\$16,126
Ana Hulu St	Local	Cape Seal	0.27	3,125	5	3.3360	\$23,417
Anahola Ct	LO/DE/CS	Fog and Crack Seal (20')	0.06	732	7	1.2603	\$1,245
Anahola PI	LO/DE/CS	Fog and Crack Seal (40')	0.23	2,699	8	1.4999	\$3,374
Analii St	Local Collector	Microsurfacing	0.35	3,299	6	10.2847	\$18,710
Analii St	Local	Microsurfacing	0.06	547	6	2.5714	\$3,105
Analii St	Local	Fog and Crack Seal (20')	0.29	2,681	7	3.1512	\$4,558
Anela Ct	Local	Cape Seal	0.06	546	5	3.3358	\$4,092
Anela Ct	LO/DE/CS	Microsurfacing	0.03	302	6	1.0287	\$1,713
Anela Dr	Local	Cape Seal	0.42	3,944	5	3.3360	\$29,558
Anela PI	LO/DE/CS	Cape Seal	0.15	1,383	5	1.3344	\$10,367
Anela St	LO/DE/CS	Cape Seal	0.08	722	5	1.3343	\$5,411
Anela St	Local	Microsurfacing	0.06	522	6	2.5712	\$2,958
Anela St	LO/DE/CS	Fog and Crack Seal (40')	0.02	197	8	1.4999	\$246
Anoai Ct	LO/DE/CS	Cape Seal	0.04	505	5	1.3345	\$3,783
Anoai Way	Local	Fog and Crack Seal (20')	0.18	2,128	7	3.1516	\$3,618
Anuaea St	LO/DE/CS	Cape Seal	0.06	738	5	1.3343	\$5,529
Apaki PI	LO/DE/CS	Cape Seal	0.18	2,136	5	1.3344	\$16,010
Apaki PI	LO/DE/CS	Microsurfacing	0.07	780	6	1.0285	\$4,424

Roadway Name	Classification	Repair	Length (Miles)	Square Yards	RSR	CBF	Repair Est.
Apelehama Cir	LO/DE/CS	Microsurfacing	0.11	1,116	6	1.0285	\$6,330
Apelehama Ct	LO/DE/CS	Fog and Crack Seal (20')	0.07	770	7	1.2605	\$1,309
Apelehama PI	LO/DE/CS	Microsurfacing	0.09	995	6	1.0285	\$5,641
Apelehama Rd	Local	Cape Seal	0.32	3,385	5	3.3360	\$25,367
Apelehama Rd	Local	Microsurfacing	0.23	2,448	6	2.5711	\$13,888
Apona Ct	LO/DE/CS	Cape Seal	0.04	502	5	1.3342	\$3,763
Apona St	LO/DE/CS	Cape Seal	0.23	2,693	5	1.3344	\$20,178
Apua Ct	LO/DE/CS	Fog and Crack Seal (20')	0.04	402	7	1.2602	\$684
Apua St	Local	Fog and Crack Seal (20')	0.20	2,118	7	3.1513	\$3,601
Apuwai PI	LO/DE/CS	Cape Seal	0.14	1,613	5	1.3344	\$12,087
Apuwai PI	LO/DE/CS	Microsurfacing	0.11	1,279	6	1.0285	\$7,255
Auahi PI	LO/DE/CS	Microsurfacing	0.06	668	6	1.0285	\$3,789
Augusta Way	LO/DE/CS	Fog and Crack Seal (20')	0.12	1,416	7	1.2603	\$2,408
Auiki PI	LO/DE/CS	Microsurfacing	0.09	1,065	6	1.0285	\$6,043
Aukai PI	LO/DE/CS	Fog and Crack Seal (40')	0.06	714	8	1.4993	\$893
Aulena Ct	LO/DE/CS	Cape Seal	0.05	562	5	1.3345	\$4,210
Aulena PI	LO/DE/CS	Microsurfacing	0.17	2,042	6	1.0285	\$11,583
Aumoe Ct	LO/DE/CS	Fog and Crack Seal (20')	0.08	900	7	1.2608	\$1,529
Aupuni PI	LO/DE/CS	Microsurfacing	0.12	1,377	6	1.0285	\$7,811
Awini Ct	LO/DE/CS	Cape Seal	0.06	673	5	1.3345	\$5,046
Awini St	LO/DE/CS	Cape Seal	0.06	678	5	1.3345	\$5,079
Awini St	LO/DE/CS	Microsurfacing	0.16	1,846	6	1.0284	\$10,471
Bambo St	Local	Structural Overlay	0.21	2,491	4	3.4751	\$26,877
Banian PI	LO/DE/CS	Structural Overlay	0.18	2,138	4	1.3901	\$23,066
Banyan PI	Local	Structural Overlay	0.04	520	4	3.4749	\$5,611

Roadway Name	Classification	Repair	Length (Miles)	Square Yards	RSR	CBF	Repair Est.
Banyan Pl	LO/DE/CS	Cape Seal	0.06	738	5	1.3344	\$5,533
Bayou Cir	Local	Cape Seal	0.21	1,938	5	3.3360	\$14,522
Bayou Ct	LO/DE/CS	Cape Seal	0.04	401	5	1.3344	\$3,004
Bayou Dr	Local	Rehabilitation	0.05	509	3	4.0295	\$7,897
Bayou Dr	Local	Cape Seal	0.36	3,351	5	3.3359	\$25,112
Bayou Dr	Local	Microsurfacing	0.64	5,970	6	2.5711	\$33,864
Bayou Pl	LO/DE/CS	Microsurfacing	0.13	1,251	6	1.0284	\$7,096
Camp Site Rd	LO/DE/CS	Cape Seal	0.04	338	5	1.3345	\$2,530
Cherryhill Dr	Local	Microsurfacing	0.30	3,553	6	2.5711	\$20,154
Cherryhill Dr	LO/DE/CS	Microsurfacing	0.07	787	6	1.0285	\$4,463
Coelho Way	LO/DE/CS	Microsurfacing	0.45	5,251	6	1.0285	\$29,781
Construction Rd	LO/DE/CS	Microsurfacing	0.15	1,759	6	1.0285	\$9,978
Country Club Cir	Local	Cape Seal	0.06	890	5	3.3362	\$6,667
Country Club Cir	Local	Microsurfacing	0.16	2,320	6	2.5710	\$13,159
Country Club Cir	Local	Fog and Crack Seal (20')	0.14	2,030	7	3.1515	\$3,451
Crooked Stick Dr	LO/DE/CS	Fog and Crack Seal (20')	0.33	3,866	7	1.2605	\$6,572
Crooked Stick Dr	LO/DE/CS	Fog and Crack Seal (40')	0.11	1,259	8	1.5000	\$1,574
Cypress Knee Dr	LO/DE/CS	Cape Seal	0.03	280	5	1.3343	\$2,096
Devils Elbow	LO/DE/CS	Cape Seal	0.22	2,557	5	1.3344	\$19,159
Diamondhead Cir	Major Collector	Microsurfacing	0.06	759	6	25.7134	\$4,305
Diamondhead Cir	Major Collector	Fog and Crack Seal (20')	0.14	1,638	7	31.5077	\$2,785
Diamondhead Dr E	Major Collector	Structural Overlay	0.06	506	4	34.7541	\$5,458
Diamondhead Dr E	Major Collector	Structural Overlay	0.03	201	4	34.7440	\$2,169
Diamondhead Dr E	Major Collector	Structural Overlay	0.87	10,242	4	30.8870	\$124,343
Diamondhead Dr E	Major Collector	Thin Lift	0.04	249	5	25.8589	\$2,409

Roadway Name	Classification	Repair	Length (Miles)	Square Yards	RSR	CBF	Repair Est.
Diamondhead Dr E	Major Collector	Thin Lift	4.86	38,473	5	25.8558	\$371,995
Diamondhead Dr E	Major Collector	Thin Lift	0.11	1,314	5	22.6874	\$14,474
Diamondhead Dr E	LO/DE/CS	Cape Seal	0.04	451	5	1.3343	\$3,382
Diamondhead Dr E	Major Collector	Microsurfacing	0.28	3,328	6	25.7115	\$18,876
Diamondhead Dr E	Major Collector	Microsurfacing	0.36	2,846	6	25.7113	\$16,142
Diamondhead Dr E	Major Collector	Microsurfacing	0.14	1,518	6	25.7106	\$8,609
Diamondhead Dr E	Major Collector	Fog and Crack Seal (20')	0.52	6,151	7	25.5252	\$12,909
Diamondhead Dr E	Major Collector	Fog and Crack Seal (40')	0.93	7,374	8	37.5017	\$9,217
Diamondhead Dr E	Local Collector	Fog and Crack Seal (40')	0.03	400	8	7.2124	\$1,039
Diamondhead Dr N	Major Collector	Thin Lift	0.19	1,529	5	25.8555	\$14,781
Diamondhead Dr N	Major Collector	Microsurfacing	0.10	768	6	25.7124	\$4,357
Diamondhead Dr N	Major Collector	Microsurfacing	0.22	1,708	6	25.7123	\$9,685
Diamondhead Dr N	Major Collector	Fog and Crack Seal (20')	2.46	19,472	7	31.5133	\$33,101
Diamondhead Dr S	Local	Cape Seal	0.37	3,218	5	3.3359	\$24,118
Diamondhead Dr W	Major Collector	Thin Lift	0.33	2,600	5	25.8557	\$25,142
Diamondhead Dr W	Major Collector	Microsurfacing	2.12	16,777	6	25.7110	\$95,162
Diamondhead Dr W	Major Collector	Fog and Crack Seal (20')	1.09	8,633	7	31.5136	\$14,675
Dogwood Cir	LO/DE/CS	Cape Seal	0.04	392	5	1.3342	\$2,938
Doral Ct	LO/DE/CS	Fog and Crack Seal (20')	0.03	322	7	1.2600	\$548
Enos St	LO/DE/CS	Microsurfacing	0.06	733	6	1.0284	\$4,160
Ewa Ct	LO/DE/CS	Microsurfacing	0.10	1,115	6	1.0284	\$6,325
Ewa Pl	LO/DE/CS	Fog and Crack Seal (40')	0.13	1,487	8	1.5003	\$1,859
Ewa St	LO/DE/CS	Fog and Crack Seal (40')	0.09	999	8	1.5001	\$1,249
Facilities Maint Dr	LO/DE/CS	Microsurfacing	0.05	541	6	1.0285	\$3,070
Fairway Dr	Local	Cape Seal	0.29	3,092	5	3.3360	\$23,172

Roadway Name	Classification	Repair	Length (Miles)	Square Yards	RSR	CBF	Repair Est.
Fairway Dr	Local	Microsurfacing	0.12	1,306	6	2.5711	\$7,409
Fox Trot	LO/DE/CS	Cape Seal	0.04	399	5	1.3345	\$2,991
Gex Dr	Major Collector	Rehabilitation	0.09	1,041	3	40.2961	\$16,141
Gex Dr	Major Collector	Thin Lift	0.46	5,385	5	25.8557	\$52,067
Gex Dr	Minor Arterial	Microsurfacing	0.36	4,200	6	53.9970	\$29,494
Gex Dr	Minor Arterial	Fog and Crack Seal (20')	0.04	1,579	7	53.5751	\$4,105
Gex Dr	Major Collector	Fog and Crack Seal (20')	0.30	3,528	7	31.5145	\$5,997
Gex Rd	LO/DE/CS	Rehabilitation	0.06	646	3	1.6118	\$10,019
Gex Rd	LO/DE/CS	Fog and Crack Seal (20')	0.13	1,563	7	1.2604	\$2,657
Golf Club Dr	Major Collector	Thin Lift	0.14	1,515	5	25.8558	\$14,653
Golf Club Dr	Major Collector	Thin Lift	1.31	15,357	5	22.6881	\$169,224
Golf Club Dr	Major Collector	Fog and Crack Seal (20')	0.28	3,307	7	17.5634	\$10,086
Golf Club Drive	Major Collector	Rehabilitation	0.24	2,772	3	37.0701	\$46,742
Haena Ct	LO/DE/CS	Fog and Crack Seal (20')	0.07	759	7	1.2603	\$1,291
Haiku Ct	LO/DE/CS	Microsurfacing	0.09	1,016	6	1.0285	\$5,763
Haina St E	Local	Microsurfacing	0.10	1,145	6	2.5710	\$6,493
Halawa Ct	LO/DE/CS	Microsurfacing	0.04	491	6	1.0286	\$2,784
Hale Ct	LO/DE/CS	Cape Seal	0.08	882	5	1.3345	\$6,606
Haleiwa Pl	LO/DE/CS	Cape Seal	0.20	1,916	5	1.3344	\$14,359
Hamakua Ct	LO/DE/CS	Cape Seal	0.04	472	5	1.3343	\$3,535
Hamakua St	Local	Cape Seal	0.15	1,796	5	3.3360	\$13,456
Hamakua St	Local	Microsurfacing	0.07	826	6	2.5709	\$4,686
Hamakua St	Local	Defer Treatment	0.10	1,129	10	0.0000	\$0
Hana Ct	LO/DE/CS	Fog and Crack Seal (40')	0.06	717	8	1.4997	\$897
Hana Pl	LO/DE/CS	Cape Seal	0.18	2,123	5	1.3344	\$15,906

Roadway Name	Classification	Repair	Length (Miles)	Square Yards	RSR	CBF	Repair Est.
Hanakealoha PI	LO/DE/CS	Fog and Crack Seal (20')	0.15	1,769	7	1.2604	\$3,008
Hanalei Cir	Local	Fog and Crack Seal (40')	0.35	4,134	8	3.7498	\$5,168
Hanalei PI	LO/DE/CS	Microsurfacing	0.10	1,160	6	1.0285	\$6,581
Hanauma Ct	LO/DE/CS	Cape Seal	0.06	656	5	1.3345	\$4,915
Hanauma PI	LO/DE/CS	Cape Seal	0.04	466	5	1.3344	\$3,491
Hanauma St	LO/DE/CS	Cape Seal	0.16	1,687	5	1.3344	\$12,645
Hapuna PI	LO/DE/CS	Cape Seal	0.09	1,083	5	1.3344	\$8,118
Hapuna PI	LO/DE/CS	Microsurfacing	0.08	951	6	1.0284	\$5,397
Hapuna St	LO/DE/CS	Microsurfacing	0.06	655	6	1.0283	\$3,714
Harbor Cir	Local	Cape Seal	0.23	2,703	5	3.3361	\$20,255
Harbor Cir	Local	Microsurfacing	0.05	537	6	2.5714	\$3,043
Harbor Ct	LO/DE/CS	Microsurfacing	0.05	594	6	1.0285	\$3,367
Hau St	LO/DE/CS	Structural Overlay	0.15	1,707	4	1.3900	\$18,419
Hawi Ct	LO/DE/CS	Fog and Crack Seal (20')	0.05	535	7	1.2602	\$910
Helewa Ct	LO/DE/CS	Cape Seal	0.06	525	5	1.3343	\$3,937
Highpoint Dr	Local	Microsurfacing	0.74	8,678	6	2.5711	\$49,223
Highpoint Dr	LO/DE/CS	Microsurfacing	0.23	2,677	6	1.0284	\$15,186
Hilo Ct	LO/DE/CS	Cape Seal	0.06	695	5	1.3344	\$5,209
Hilo PI	LO/DE/CS	Cape Seal	0.14	1,623	5	1.3344	\$12,164
Hilo St	Local	Cape Seal	0.22	1,700	5	3.3359	\$12,738
Hilo St	Local	Fog and Crack Seal (20')	0.17	1,946	7	1.7563	\$5,935
Hilo St	Local	Fog and Crack Seal (40')	0.24	2,803	8	1.8029	\$7,289
Hilo Way	Local	Cape Seal	0.24	1,834	5	3.3361	\$13,744
Hilo Way	Local	Microsurfacing	2.03	15,488	6	2.5711	\$87,851
Hoaka Ln	LO/DE/CS	Cape Seal	0.05	518	5	1.3344	\$3,884

Roadway Name	Classification	Repair	Length (Miles)	Square Yards	RSR	CBF	Repair Est.
Hoaka Ln	Local	Microsurfacing	0.05	578	6	2.5709	\$3,277
Holly Corner	LO/DE/CS	Cape Seal	0.03	302	5	1.3344	\$2,260
Honalo Pl	LO/DE/CS	Microsurfacing	0.09	1,109	6	1.0284	\$6,293
Honoum Ct	LO/DE/CS	Cape Seal	0.06	723	5	1.3343	\$5,421
Honomu Pl	LO/DE/CS	Cape Seal	0.14	1,660	5	1.3344	\$12,440
Huko Ct	LO/DE/CS	Microsurfacing	0.05	544	6	1.0286	\$3,084
Ieke Cir	Local	Cape Seal	0.19	1,824	5	3.3360	\$13,668
Ieke Dr	Local	Structural Overlay	0.06	521	4	3.4753	\$5,617
Ieke Dr	Local	Cape Seal	0.37	3,445	5	3.3360	\$25,814
Iki Pl	LO/DE/CS	Fog and Crack Seal (20')	0.12	1,361	7	1.2606	\$2,314
Indian Hill Dr	LO/DE/CS	Cape Seal	0.06	1,021	5	1.3344	\$7,650
Iolani Ct	LO/DE/CS	Cape Seal	0.10	1,097	5	1.3344	\$8,217
Iona Ct	LO/DE/CS	Microsurfacing	0.02	190	6	1.0288	\$1,078
Iona St	LO/DE/CS	Cape Seal	0.07	720	5	1.3344	\$5,399
Iona St	Local	Microsurfacing	0.24	2,538	6	2.5711	\$14,397
Kaena Ct	LO/DE/CS	Cape Seal	0.03	369	5	1.3345	\$2,765
Kaena Pl	LO/DE/CS	Cape Seal	0.14	1,503	5	1.3345	\$11,263
Kaena St	LO/DE/CS	Cape Seal	0.06	610	5	1.3343	\$4,574
Kahala Dr	Local	Fog and Crack Seal (40')	0.39	3,679	8	3.7503	\$4,598
Kahana St	Local	Cape Seal	0.25	2,912	5	3.3360	\$21,820
Kahana St	Local	Microsurfacing	0.34	3,959	6	2.5711	\$22,454
Kaiki Cir	LO/DE/CS	Microsurfacing	0.04	470	6	1.0284	\$2,665
Kaiki Ct	LO/DE/CS	Rehabilitation	0.04	468	3	1.6119	\$7,251
Kaiki Dr	Local	Cape Seal	0.19	2,200	5	3.3360	\$16,486
Kaiki Dr	Local	Microsurfacing	0.36	4,195	6	2.5711	\$23,795

Roadway Name	Classification	Repair	Length (Miles)	Square Yards	RSR	CBF	Repair Est.
Kailua Pl	LO/DE/CS	Fog and Crack Seal (40')	0.23	2,697	8	1.5001	\$3,371
Kaimu St	Local	Cape Seal	0.14	1,640	5	3.3360	\$12,290
Kaimu St	LO/DE/CS	Microsurfacing	0.04	424	6	1.0285	\$2,405
Kaimuki Ct	LO/DE/CS	Fog and Crack Seal (20')	0.15	1,784	7	1.2604	\$3,033
Kaimuki St	LO/DE/CS	Fog and Crack Seal (20')	0.06	680	7	1.2602	\$1,157
Kalae Ct	LO/DE/CS	Cape Seal	0.02	273	5	1.3343	\$2,046
Kalae Ct	LO/DE/CS	Fog and Crack Seal (20')	0.04	413	7	1.2599	\$702
Kalae St	Local	Cape Seal	0.25	2,963	5	3.3360	\$22,208
Kalae St	Local	Fog and Crack Seal (40')	0.15	1,736	8	3.7498	\$2,170
Kalaepohuku Dr	LO/DE/CS	Fog and Crack Seal (20')	0.54	6,301	7	1.2605	\$10,712
Kalalau St	LO/DE/CS	Cape Seal	0.16	1,921	5	1.3344	\$14,396
Kalani Dr	Minor Arterial	Thin Lift	0.03	684	5	61.4979	\$7,230
Kalani Dr	Minor Arterial	Thin Lift	0.25	2,937	5	58.9896	\$32,364
Kale Pl	LO/DE/CS	Microsurfacing	0.11	1,069	6	1.0284	\$6,063
Kale St	LO/DE/CS	Microsurfacing	0.10	937	6	1.0285	\$5,315
Kaleki Ct	LO/DE/CS	Fog and Crack Seal (20')	0.05	480	7	1.2602	\$817
Kaleki Pl	LO/DE/CS	Fog and Crack Seal (20')	0.06	572	7	1.2607	\$973
Kaleki Way	Local	Cape Seal	0.28	2,584	5	3.3361	\$19,361
Kalimimaka Pl	LO/DE/CS	Microsurfacing	0.07	651	6	1.0286	\$3,691
Kalipekone Ct	LO/DE/CS	Microsurfacing	0.08	704	6	1.0283	\$3,995
Kalipekone Way	LO/DE/CS	Cape Seal	0.11	1,035	5	1.3344	\$7,757
Kalipekone Way	Local	Fog and Crack Seal (40')	0.37	4,354	8	3.7501	\$5,442
Kalo Ct	LO/DE/CS	Rehabilitation	0.07	791	3	1.6118	\$12,274
Kaluopalena Pl	LO/DE/CS	Microsurfacing	0.08	770	6	1.0285	\$4,368
Kamehameha Pl	LO/DE/CS	Microsurfacing	0.11	1,020	6	1.0284	\$5,785

Roadway Name	Classification	Repair	Length (Miles)	Square Yards	RSR	CBF	Repair Est.
Kanoa Way	LO/DE/CS	Microsurfacing	0.16	1,856	6	1.0285	\$10,526
Kanoa Way	LO/DE/CS	Fog and Crack Seal (20')	0.09	1,048	7	1.2608	\$1,781
Kapalama Dr	Major Collector	Cape Seal	0.42	4,888	5	28.2676	\$43,233
Kapalama Dr	Major Collector	Microsurfacing	0.07	776	6	20.7682	\$5,451
Kapalama Dr	Local	Microsurfacing	0.20	2,353	6	2.0768	\$16,524
Kapalama Dr	Local	Fog and Crack Seal (20')	0.65	7,575	7	1.7565	\$23,104
Kapalama Dr	LO/DE/CS	Fog and Crack Seal (20')	0.17	1,173	7	1.2603	\$1,995
Kaumakapili St	LO/DE/CS	Fog and Crack Seal (20')	0.37	4,373	7	1.2604	\$7,434
Kawananakoa Pl	LO/DE/CS	Microsurfacing	0.09	843	6	1.0284	\$4,779
Kepuhi Ct	LO/DE/CS	Rehabilitation	0.05	501	3	1.6119	\$7,764
Kiko St	Local	Cape Seal	0.25	2,611	5	3.3360	\$19,563
Kiko St	Local	Microsurfacing	0.12	1,311	6	2.5713	\$7,434
Kimo Ct	LO/DE/CS	Cape Seal	0.05	509	5	1.3345	\$3,816
Kimo Ct	LO/DE/CS	Microsurfacing	0.12	1,138	6	1.0285	\$6,453
Kimo Pl	LO/DE/CS	Microsurfacing	0.10	932	6	1.0285	\$5,284
Kini Ct	LO/DE/CS	Fog and Crack Seal (20')	0.04	417	7	1.2597	\$709
Kini Pl	LO/DE/CS	Fog and Crack Seal (20')	0.08	887	7	1.2604	\$1,508
Kini St	Local	Fog and Crack Seal (20')	0.16	1,712	7	3.1509	\$2,911
Kino Pl	LO/DE/CS	Fog and Crack Seal (20')	0.13	1,356	7	1.2606	\$2,305
Kino St	Local	Fog and Crack Seal (20')	0.15	1,533	7	3.1508	\$2,606
Kipapa Ct	LO/DE/CS	Microsurfacing	0.06	670	6	1.0284	\$3,798
Kipapa Way	Local	Structural Overlay	0.18	2,103	4	3.4751	\$22,693
Kipapa Way	Local	Microsurfacing	0.30	3,479	6	2.5710	\$19,736
Kipona Ct	LO/DE/CS	Microsurfacing	0.08	706	6	1.0285	\$4,007
Koko Pl	LO/DE/CS	Cape Seal	0.14	1,599	5	1.3344	\$11,986

Roadway Name	Classification	Repair	Length (Miles)	Square Yards	RSR	CBF	Repair Est.
Koko St	LO/DE/CS	Cape Seal	0.09	1,080	5	1.3344	\$8,094
Kolo Ct	LO/DE/CS	Microsurfacing	0.03	323	6	1.0282	\$1,831
Kolo Way	Local	Cape Seal	0.34	3,149	5	3.3360	\$23,602
Kolo Way	Local	Microsurfacing	0.13	1,264	6	2.5712	\$7,171
Koloa Ct	LO/DE/CS	Fog and Crack Seal (20')	0.09	984	7	1.2603	\$1,673
Koloa St	Local	Cape Seal	0.11	1,269	5	3.3361	\$9,507
Koloa St	Local	Microsurfacing	0.24	2,795	6	2.5711	\$15,854
Koloa St	Local	Fog and Crack Seal (20')	0.25	2,947	7	3.1513	\$5,010
Koloa St	Local	Fog and Crack Seal (20')	0.27	2,888	7	3.1511	\$4,910
Koloa St	Local	Fog and Crack Seal (40')	0.06	697	8	3.7487	\$872
Kome Ct	LO/DE/CS	Fog and Crack Seal (40')	0.04	434	8	1.4988	\$543
Kome Dr	Local	Structural Overlay	0.05	561	4	3.4754	\$6,048
Kome Dr	Local	Cape Seal	0.03	355	5	3.3363	\$2,660
Kome Dr	Local	Fog and Crack Seal (40')	0.43	4,540	8	3.7503	\$5,675
Kome Pl	LO/DE/CS	Microsurfacing	0.07	708	6	1.0283	\$4,017
Kono Pl	LO/DE/CS	Fog and Crack Seal (20')	0.08	781	7	1.2606	\$1,327
Koula Dr	Local	Microsurfacing	0.31	3,300	6	2.5711	\$18,719
Koula Pl	LO/DE/CS	Cape Seal	0.08	806	5	1.3343	\$6,043
Kui Pl	LO/DE/CS	Cape Seal	0.03	309	5	1.3343	\$2,313
Kunia Ct	LO/DE/CS	Microsurfacing	0.04	458	6	1.0286	\$2,600
Laa la Ct	LO/DE/CS	Fog and Crack Seal (20')	0.11	1,010	7	1.2603	\$1,718
Laa la Pl	LO/DE/CS	Microsurfacing	0.09	824	6	1.0284	\$4,675
Laa la Way	Local	Cape Seal	0.05	511	5	3.3358	\$3,830
Laa la Way	Local	Microsurfacing	0.28	2,613	6	2.5712	\$14,818
Laa la Way	Local	Fog and Crack Seal (20')	0.15	1,398	7	3.1512	\$2,376

Roadway Name	Classification	Repair	Length (Miles)	Square Yards	RSR	CBF	Repair Est.
Laala PI	LO/DE/CS	Microsurfacing	0.13	1,224	6	1.0284	\$6,941
Lae Ct	LO/DE/CS	Cape Seal	0.04	379	5	1.3346	\$2,843
Lae PI	LO/DE/CS	Microsurfacing	0.07	657	6	1.0283	\$3,729
Laie Ct	LO/DE/CS	Cape Seal	0.12	1,372	5	1.3344	\$10,282
Laie PI	LO/DE/CS	Fog and Crack Seal (40')	0.15	1,732	8	1.5001	\$2,165
Laie St	LO/DE/CS	Fog and Crack Seal (40')	0.21	2,427	8	1.5002	\$3,033
Lakeside Villa	LO/DE/CS	Microsurfacing	0.13	1,477	6	1.0285	\$8,380
Lakeview Ct	LO/DE/CS	Microsurfacing	0.06	686	6	1.0283	\$3,891
Lamaloa Ct	LO/DE/CS	Fog and Crack Seal (20')	0.04	468	7	1.2597	\$796
Lanai Ct	LO/DE/CS	Cape Seal	0.06	724	5	1.3343	\$5,428
Lanai PI	LO/DE/CS	Fog and Crack Seal (20')	0.09	1,065	7	1.2606	\$1,811
Lanai St	Local	Microsurfacing	0.17	1,990	6	2.0768	\$13,975
Lanai St	Local	Fog and Crack Seal (20')	0.04	433	7	1.7563	\$1,320
Lanai Vlg	Local	Microsurfacing	0.22	2,594	6	2.5712	\$14,712
Lanai Vlg	Local	Fog and Crack Seal (20')	0.28	3,249	7	3.1511	\$5,523
Leisure Time Dr	LO/DE/CS	Cape Seal	0.25	2,918	5	1.3344	\$21,866
Leisure Time Ln	LO/DE/CS	Reconstruction	0.04	429	2	1.5949	\$12,106
Leisure Time Ln	LO/DE/CS	Rehabilitation	0.05	543	3	1.6119	\$8,421
Leke PI	LO/DE/CS	Cape Seal	0.04	395	5	1.3343	\$2,964
Lilinoe Ct	LO/DE/CS	Fog and Crack Seal (20')	0.03	366	7	1.2596	\$622
Lilinoe PI	Local	Fog and Crack Seal (20')	0.05	579	7	3.1502	\$985
Lilinoe PI	LO/DE/CS	Fog and Crack Seal (20')	0.07	705	7	1.2607	\$1,199
Lilinoe Way	Local	Fog and Crack Seal (20')	0.49	5,189	7	3.1512	\$8,822
Limu PI	LO/DE/CS	Fog and Crack Seal (20')	0.12	1,218	7	1.2603	\$2,071
Limu Way	Local	Fog and Crack Seal (20')	0.42	4,472	7	3.1514	\$7,602

Roadway Name	Classification	Repair	Length (Miles)	Square Yards	RSR	CBF	Repair Est.
Linhau Way	Local	Cape Seal	0.36	3,840	5	3.3360	\$28,775
Linhau Way	Local	Fog and Crack Seal (20')	0.20	2,067	7	3.1509	\$3,515
Live Oak Ct	LO/DE/CS	Microsurfacing	0.05	514	6	1.0284	\$2,914
Live Oak Dr	LO/DE/CS	Fog and Crack Seal (20')	0.07	1,233	7	0.7026	\$3,761
Loa Ct	LO/DE/CS	Cape Seal	0.06	672	5	1.3344	\$5,037
Loa Pl	LO/DE/CS	Cape Seal	0.13	1,503	5	1.3344	\$11,267
Lola Ct	LO/DE/CS	Fog and Crack Seal (20')	0.04	375	7	1.2609	\$638
Lola Dr	Local	Cape Seal	0.44	4,086	5	3.3360	\$30,622
Lola Dr	Local	Fog and Crack Seal (20')	0.14	1,356	7	3.1510	\$2,306
Lola Way	Local	Cape Seal	0.05	516	5	3.3363	\$3,864
Lono Pl	LO/DE/CS	Microsurfacing	0.13	1,180	6	1.0285	\$6,695
Loulu Pl	LO/DE/CS	Cape Seal	0.15	1,776	5	1.3344	\$13,308
Luakini Pl	LO/DE/CS	Structural Overlay	0.13	1,478	4	1.3900	\$15,953
Lualini Pl	LO/DE/CS	Fog and Crack Seal (20')	0.14	1,508	7	1.2603	\$2,564
Luawai Pl	LO/DE/CS	Fog and Crack Seal (20')	0.17	1,796	7	1.2603	\$3,053
Luawai Way	Local	Microsurfacing	0.33	3,521	6	2.5711	\$19,971
Lumahai Pl	LO/DE/CS	Cape Seal	0.13	1,475	5	1.3344	\$11,057
Mahalo Hui Dr	LO/DE/CS	Cape Seal	0.07	755	5	1.3344	\$5,660
Mahalo Hui Dr	Local	Microsurfacing	0.41	4,832	6	2.0768	\$33,928
Mahalohui Dr	Local	Microsurfacing	0.14	1,652	6	2.0768	\$11,604
Maii Ct	LO/DE/CS	Microsurfacing	0.07	813	6	1.0285	\$4,613
Maii Pl	LO/DE/CS	Microsurfacing	0.08	956	6	1.0284	\$5,424
Maii Way	Local	Microsurfacing	0.31	3,627	6	2.5711	\$20,570
Make Way	Local	Fog and Crack Seal (20')	0.26	3,109	7	3.1515	\$5,285
Makiki Ct	LO/DE/CS	Fog and Crack Seal (20')	0.05	469	7	1.2605	\$797

Roadway Name	Classification	Repair	Length (Miles)	Square Yards	RSR	CBF	Repair Est.
Makiki Dr	Local	Microsurfacing	0.29	2,769	6	2.5711	\$15,705
Makiki Dr	Local	Fog and Crack Seal (20')	0.21	2,018	7	3.1515	\$3,430
Malahini PI	LO/DE/CS	Cape Seal	0.07	704	5	1.3344	\$5,275
Malie PI	Local	Microsurfacing	0.09	1,039	6	2.5710	\$5,896
Malino PI	LO/DE/CS	Cape Seal	0.09	1,090	5	1.3344	\$8,167
Malino Way	LO/DE/CS	Microsurfacing	0.05	537	6	1.0286	\$3,048
Mamalu PI	LO/DE/CS	Fog and Crack Seal (20')	0.09	999	7	1.2606	\$1,698
Mamalu PI	LO/DE/CS	Fog and Crack Seal (40')	0.05	558	8	1.5000	\$698
Manini Way	Local	Fog and Crack Seal (40')	0.38	4,498	8	3.7499	\$5,623
Manoo Ct	LO/DE/CS	Fog and Crack Seal (20')	0.05	539	7	1.2611	\$916
Manoo PI	LO/DE/CS	Fog and Crack Seal (20')	0.14	1,645	7	1.2607	\$2,796
Manoo St	Local	Microsurfacing	0.06	663	6	2.5714	\$3,759
Manoo St	Local	Fog and Crack Seal (20')	0.17	1,956	7	3.1512	\$3,326
Mapunapuna Dr	LO/DE/CS	Fog and Crack Seal (20')	0.15	1,737	7	1.2604	\$2,953
Maui Cir	Local	Cape Seal	0.28	3,310	5	3.3361	\$24,805
Maui Ct	LO/DE/CS	Cape Seal	0.06	692	5	1.3344	\$5,189
Maui PI	LO/DE/CS	Cape Seal	0.19	2,254	5	1.3344	\$16,894
Maui St	Local	Cape Seal	0.07	827	5	3.3362	\$6,196
Maui St	LO/DE/CS	Cape Seal	0.05	622	5	1.3344	\$4,658
Mauna Loa Ct	LO/DE/CS	Microsurfacing	0.10	1,069	6	1.0284	\$6,066
Mauna Loa Dr	Local	Fog and Crack Seal (20')	0.24	2,495	7	3.1514	\$4,241
Mauna Loa Dr	Local	Fog and Crack Seal (40')	0.32	3,342	8	3.7500	\$4,178
Mauna Loa PI	LO/DE/CS	Microsurfacing	0.11	1,154	6	1.0284	\$6,548
Mauna PI	LO/DE/CS	Fog and Crack Seal (40')	0.05	492	8	1.5011	\$614
Maunalani PI	LO/DE/CS	Fog and Crack Seal (20')	0.25	2,300	7	1.2606	\$3,910

Roadway Name	Classification	Repair	Length (Miles)	Square Yards	RSR	CBF	Repair Est.
Maunalani PI	LO/DE/CS	Fog and Crack Seal (40')	0.03	296	8	1.4982	\$371
Mele PI	LO/DE/CS	Reconstruction	0.03	323	2	1.5949	\$9,124
Moanalua Way	Local	Fog and Crack Seal (40')	0.52	6,109	8	3.7499	\$7,636
Mohonua PI	LO/DE/CS	Cape Seal	0.10	930	5	1.3344	\$6,973
Mohonua PI	LO/DE/CS	Microsurfacing	0.15	1,376	6	1.0285	\$7,805
Muolea Ct	LO/DE/CS	Cape Seal	0.11	1,238	5	1.3344	\$9,277
N Fairway Dr	LO/DE/CS	Cape Seal	0.02	198	5	1.3348	\$1,485
Noma Dr	LO/DE/CS	Reconstruction	0.32	3,730	1	0.0000	\$109,437
Noma Dr	LO/DE/CS	Rehabilitation	0.39	4,536	3	1.6119	\$70,351
Noma Dr	Local	Cape Seal	0.31	3,253	5	2.7797	\$29,258
Noma Dr	Local	Microsurfacing	0.06	618	6	2.0332	\$4,432
Noma Dr	Local	Fog and Crack Seal (20')	0.34	4,039	7	3.1511	\$6,867
Noma Dr	Local	Fog and Crack Seal (20')	0.23	2,438	7	1.6741	\$7,801
Noma PI	LO/DE/CS	Reconstruction	0.06	577	2	1.5949	\$16,288
Noma PI	LO/DE/CS	Structural Overlay	0.08	757	4	1.3900	\$8,172
Noma PI	LO/DE/CS	Microsurfacing	0.05	497	6	1.0284	\$2,817
Oahu Ct	LO/DE/CS	Microsurfacing	0.16	1,880	6	1.0284	\$10,664
Oahu St	LO/DE/CS	Cape Seal	0.21	2,479	5	1.3344	\$18,580
Oakmont Way	LO/DE/CS	Microsurfacing	0.10	1,211	6	1.0285	\$6,867
Oaks Blvd	Local	Cape Seal	0.06	584	5	3.3361	\$4,380
Oaks Blvd	Local	Microsurfacing	0.47	4,405	6	2.5711	\$24,983
Oio PI	Local	Fog and Crack Seal (20')	0.06	710	7	3.1503	\$1,207
Oio PI	LO/DE/CS	Fog and Crack Seal (20')	0.08	974	7	1.2601	\$1,656
Oliwa PI	LO/DE/CS	Cape Seal	0.09	916	5	1.3344	\$6,868
Olu Dr	LO/DE/CS	Reconstruction	0.07	876	1	0.0000	\$25,700

Roadway Name	Classification	Repair	Length (Miles)	Square Yards	RSR	CBF	Repair Est.
Olu Dr	LO/DE/CS	Microsurfacing	0.07	772	6	1.0285	\$4,380
Olu Pl	LO/DE/CS	Reconstruction	0.11	1,261	2	1.5949	\$35,584
Op Ia Ct	LO/DE/CS	Cape Seal	0.08	750	5	1.3344	\$5,621
Op Ia Pl	LO/DE/CS	Microsurfacing	0.08	705	6	1.0285	\$3,999
Op Ia Way	Local	Cape Seal	0.41	3,853	5	3.3360	\$28,877
Op Ia Way	Local	Microsurfacing	0.45	4,207	6	2.5711	\$23,860
Paani Ct	LO/DE/CS	Cape Seal	0.14	1,608	5	1.3344	\$12,054
Pahoa Ct	LO/DE/CS	Cape Seal	0.09	1,028	5	1.3343	\$7,705
Park Ten Dr	LO/DE/CS	Rehabilitation	0.22	2,538	3	1.6119	\$39,367
Pecan Ridge	LO/DE/CS	Cape Seal	0.03	270	5	1.3342	\$2,021
Pelican Cove	LO/DE/CS	Cape Seal	0.07	787	5	1.3345	\$5,900
Pine Ridge Blvd	LO/DE/CS	Cape Seal	0.17	1,972	5	1.3344	\$14,781
Pine Ridge Ct	LO/DE/CS	Cape Seal	0.04	426	5	1.3344	\$3,195
Pinehurst Ct	LO/DE/CS	Fog and Crack Seal (20')	0.04	429	7	1.2605	\$729
Pokai Ct	LO/DE/CS	Cape Seal	0.03	341	5	1.3345	\$2,555
Pokai St	LO/DE/CS	Cape Seal	0.04	471	5	1.3346	\$3,529
Pokai St	Local	Microsurfacing	0.29	3,405	6	2.5712	\$19,315
Pokai Way	Local	Cape Seal	0.10	1,106	5	3.3361	\$8,289
Pokai Way	Local	Microsurfacing	0.39	4,247	6	2.5711	\$24,089
Poki Pl	LO/DE/CS	Fog and Crack Seal (20')	0.16	1,919	7	1.2606	\$3,262
Polo Ct	LO/DE/CS	Microsurfacing	0.03	339	6	1.0282	\$1,922
Poni Pl	LO/DE/CS	Microsurfacing	0.10	944	6	1.0284	\$5,353
Pono Pl	LO/DE/CS	Structural Overlay	0.11	1,008	4	1.3901	\$10,880
Pono St	LO/DE/CS	Cape Seal	0.07	668	5	1.3343	\$5,007
Possum Way	LO/DE/CS	Cape Seal	0.04	344	5	1.3342	\$2,581

Roadway Name	Classification	Repair	Length (Miles)	Square Yards	RSR	CBF	Repair Est.
Puako Ct	LO/DE/CS	Microsurfacing	0.05	617	6	1.0286	\$3,499
Pueo Ct	LO/DE/CS	Fog and Crack Seal (20')	0.04	385	7	1.2612	\$654
Puna Ct	LO/DE/CS	Microsurfacing	0.09	1,053	6	1.0284	\$5,971
Puna Pl	LO/DE/CS	Microsurfacing	0.08	952	6	1.0285	\$5,402
Puna Pl	LO/DE/CS	Fog and Crack Seal (20')	0.05	636	7	1.2606	\$1,081
Puna St	LO/DE/CS	Microsurfacing	0.04	504	6	1.0284	\$2,856
Puunani Pl	LO/DE/CS	Fog and Crack Seal (20')	0.14	1,655	7	1.2605	\$2,814
Quail Creek Dr	LO/DE/CS	Cape Seal	0.04	333	5	1.3344	\$2,495
Rabbit Run	LO/DE/CS	Cape Seal	0.03	291	5	1.3346	\$2,182
Shepherd Sq	Local	Fog and Crack Seal (20')	0.15	1,703	7	1.7563	\$5,195
Shepherd Sq	LO/DE/CS	Fog and Crack Seal (20')	0.17	2,041	7	1.2603	\$3,471
Spyglass Ct	LO/DE/CS	Fog and Crack Seal (20')	0.03	339	7	1.2597	\$577
St Andrews Ct	LO/DE/CS	Fog and Crack Seal (20')	0.03	309	7	1.2598	\$525
Stag Ct	LO/DE/CS	Cape Seal	0.03	253	5	1.3342	\$1,893
Tahiti Cir	LO/DE/CS	Microsurfacing	0.05	515	6	1.0284	\$2,921
Timber Park	LO/DE/CS	Cape Seal	0.04	369	5	1.3343	\$2,766
Troon Ct	LO/DE/CS	Fog and Crack Seal (20')	0.04	455	7	1.2602	\$774
Turnberry Ct	LO/DE/CS	Cape Seal	0.04	438	5	1.3343	\$3,282
Turnberry Dr	Local	Microsurfacing	0.84	9,847	6	2.5711	\$55,850
Turnberry Way	LO/DE/CS	Microsurfacing	0.14	1,636	6	1.0285	\$9,278
Vaught Cir	Local	Fog and Crack Seal (20')	0.22	2,593	7	3.1516	\$4,407
Veterans Dr	Local	Fog and Crack Seal (40')	0.15	2,334	8	2.0485	\$5,340
W Aloha Dr	Minor Arterial	Thin Lift	0.10	2,554	5	61.4996	\$26,993
W Aloha Dr	Minor Arterial	Microsurfacing	0.07	1,895	6	57.6932	\$12,457
Whispering Branch Way	Local	Microsurfacing	0.04	393	6	2.5714	\$2,227

Roadway Name	Classification	Repair	Length (Miles)	Square Yards	RSR	CBF	Repair Est.
Whispering Branch Way	LO/DE/CS	Microsurfacing	0.13	1,227	6	1.0284	\$6,961
Wilderness Run	Local	Microsurfacing	0.10	921	6	2.5712	\$5,226
Woodcock Cir	LO/DE/CS	Cape Seal	0.03	295	5	1.3343	\$2,213
Yacht Club Cir	Local	Fog and Crack Seal (20')	0.13	1,181	7	3.1520	\$2,008
Yacht Club Dr	Local Collector	Fog and Crack Seal (20')	0.31	2,732	7	12.6060	\$4,644
Grand Totals			81.54	848,966			\$4,950,624

City of Diamondhead, Mississippi

Asphalt Roads: Ward Summary by Repair Method

Repair	Length (Miles)	Square Yards	RSR	Repair Est.
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Ward 1

Reconstruction	0.32	3,730	1	\$109,437
Reconstruction	0.10	1,006	2	\$28,394
Rehabilitation	0.76	8,772	3	\$136,055
Structural Overlay	1.08	11,176	4	\$120,598
Cape Seal	5.42	52,744	5	\$395,269
Microsurfacing	0.31	3,253	5	\$29,258
Microsurfacing	4.53	42,651	6	\$242,841
Fog and Crack Seal (20')	4.71	43,673	7	\$83,177
Fog and Crack Seal (40')	0.90	8,472	8	\$10,590
Ward 1 Totals	18.14	175,477		\$1,155,619

Ward 2

Rehabilitation	0.05	501	3	\$7,764
Structural Overlay	0.13	1,494	4	\$16,126
Cape Seal	3.64	41,775	5	\$319,660
Thin Lift	0.88	8,295	5	\$85,825
Microsurfacing	7.52	78,167	6	\$447,591
Fog and Crack Seal (20')	5.74	59,627	7	\$107,986
Fog and Crack Seal (40')	0.31	3,692	8	\$4,616
Defer Treatment	0.10	1,129	10	\$0
Ward 2 Totals	18.37	194,679		\$989,568

Ward 3

Reconstruction	0.07	876	1	\$25,700
Reconstruction	0.18	2,128	2	\$60,027
Rehabilitation	0.51	5,840	3	\$94,317
Structural Overlay	1.22	14,188	4	\$166,932
Cape Seal	4.53	49,837	5	\$373,480
Thin Lift	2.58	26,022	5	\$260,263
Microsurfacing	8.86	96,174	6	\$567,783
Fog and Crack Seal (20')	6.58	72,249	7	\$130,126
Fog and Crack Seal (40')	1.47	16,679	8	\$23,271
Ward 3 Totals	26.01	283,992		\$1,701,899

Ward 4

Structural Overlay	0.24	2,609	4	\$28,151
Cape Seal	3.11	34,752	5	\$260,429

City of Diamondhead, Mississippi

Asphalt Roads: Ward Summary by Repair Method

Repair	Length (Miles)	Square Yards	RSR	Repair Est.
Thin Lift	4.66	40,908	5	\$410,653
Microsurfacing	5.36	53,355	6	\$305,317
Fog and Crack Seal (20')	1.70	20,283	7	\$41,027
Fog and Crack Seal (40')	3.96	42,910	8	\$57,961
Ward 4 Totals	19.03	194,817		\$1,103,538

City of Diamonhead, Mississippi

Roads: Grouped By Ward

Roadway Name	RSR	Length (Miles)	Square Yards	Class	Repair Est.
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Ward 1

Reconstruction

Noma Dr	1	0.32	3,730	LO/DE/CS	\$109,437
<u>Totals</u>	<u>1</u>	<u>0.32</u>	<u>3,730</u>		<u>\$109,437</u>

Reconstruction

Leisure Time Ln	2	0.04	429	LO/DE/CS	\$12,106
Noma Pl	2	0.06	577	LO/DE/CS	\$16,288
<u>Totals</u>	<u>2</u>	<u>0.10</u>	<u>1,006</u>		<u>\$28,394</u>

Rehabilitation

Bayou Dr	3	0.05	509	Local	\$7,897
Gex Rd	3	0.06	646	LO/DE/CS	\$10,019
Leisure Time Ln	3	0.05	543	LO/DE/CS	\$8,421
Noma Dr	3	0.39	4,536	LO/DE/CS	\$70,351
Park Ten Dr	3	0.22	2,538	LO/DE/CS	\$39,367
<u>Totals</u>	<u>3</u>	<u>0.76</u>	<u>8,772</u>		<u>\$136,055</u>

Structural Overlay

Ahia Ct	4	0.11	1,039	LO/DE/CS	\$11,206
Akaka Ct	4	0.10	924	LO/DE/CS	\$9,974
Alu Ct	4	0.05	500	LO/DE/CS	\$5,393
Amoka Ct	4	0.07	637	LO/DE/CS	\$6,879
Amoka Dr	4	0.07	642	Local	\$6,923
Bambo St	4	0.21	2,491	Local	\$26,877
Banian Pl	4	0.18	2,138	LO/DE/CS	\$23,066
Banyan Pl	4	0.04	520	Local	\$5,611
Ieke Dr	4	0.06	521	Local	\$5,617
Noma Pl	4	0.08	757	LO/DE/CS	\$8,172
Pono Pl	4	0.11	1,008	LO/DE/CS	\$10,880

Roadway Name	RSR	Length (Miles)	Square Yards	Class	Repair Est.
<u>Totals</u>	<u>4</u>	<u>1.08</u>	<u>11,176</u>		<u>\$120,598</u>

Cape Seal

Ahi St	5	0.06	539	Local	\$4,039
Akikai Dr	5	0.25	2,930	Local	\$21,959
Amoka Pl	5	0.10	902	LO/DE/CS	\$6,760
Anela Ct	5	0.06	546	Local	\$4,092
Anela Dr	5	0.42	3,944	Local	\$29,558
Anela Pl	5	0.15	1,383	LO/DE/CS	\$10,367
Banyan Pl	5	0.06	738	LO/DE/CS	\$5,533
Bayou Cir	5	0.21	1,938	Local	\$14,522
Bayou Ct	5	0.04	401	LO/DE/CS	\$3,004
Bayou Dr	5	0.36	3,351	Local	\$25,112
Camp Site Rd	5	0.04	338	LO/DE/CS	\$2,530
Cypress Knee Dr	5	0.03	280	LO/DE/CS	\$2,096
Devils Elbow	5	0.22	2,557	LO/DE/CS	\$19,159
Dogwood Cir	5	0.04	392	LO/DE/CS	\$2,938
Fox Trot	5	0.04	399	LO/DE/CS	\$2,991
Haleiwa Pl	5	0.20	1,916	LO/DE/CS	\$14,359
Heleiwa Ct	5	0.06	525	LO/DE/CS	\$3,937
Holly Corner	5	0.03	302	LO/DE/CS	\$2,260
Ieke Cir	5	0.19	1,824	Local	\$13,668
Ieke Dr	5	0.37	3,445	Local	\$25,814
Kaleki Way	5	0.28	2,584	Local	\$19,361
Kimo Ct	5	0.05	509	LO/DE/CS	\$3,816
Kolo Way	5	0.34	3,149	Local	\$23,602
Kui Pl	5	0.03	309	LO/DE/CS	\$2,313
Lae Ct	5	0.04	379	LO/DE/CS	\$2,843
Leisure Time Dr	5	0.25	2,918	LO/DE/CS	\$21,866
Lola Dr	5	0.44	4,086	Local	\$30,622
Lola Way	5	0.05	516	Local	\$3,864
Malahini Pl	5	0.07	704	LO/DE/CS	\$5,275
Mohonua Pl	5	0.10	930	LO/DE/CS	\$6,973
Noma Dr	5	0.31	3,253	Local	\$29,258
Oaks Blvd	5	0.06	584	Local	\$4,380

Roadway Name	RSR	Length (Miles)	Square Yards	Class	Repair Est.
Op la Ct	5	0.08	750	LO/DE/CS	\$5,621
Op la Way	5	0.41	3,853	Local	\$28,877
Pecan Ridge	5	0.03	270	LO/DE/CS	\$2,021
Pono St	5	0.07	668	LO/DE/CS	\$5,007
Possum Way	5	0.04	344	LO/DE/CS	\$2,581
Quail Creek Dr	5	0.04	333	LO/DE/CS	\$2,495
Rabbit Run	5	0.03	291	LO/DE/CS	\$2,182
Stag Ct	5	0.03	253	LO/DE/CS	\$1,893
Timber Park	5	0.04	369	LO/DE/CS	\$2,766
Woodcock Cir	5	0.03	295	LO/DE/CS	\$2,213
Totals	5	5.73	55,997		\$424,527

Microsurfacing

Akaka St	6	0.06	527	Local	\$2,989
Analii St	6	0.06	547	Local	\$3,105
Anela Ct	6	0.03	302	LO/DE/CS	\$1,713
Anela St	6	0.06	522	Local	\$2,958
Bayou Dr	6	0.64	5,970	Local	\$33,864
Bayou Pl	6	0.13	1,251	LO/DE/CS	\$7,096
Construction Rd	6	0.15	1,759	LO/DE/CS	\$9,978
Diamondhead Dr N	6	0.22	1,708	Major Collector	\$9,685
Kale Pl	6	0.11	1,069	LO/DE/CS	\$6,063
Kale St	6	0.10	937	LO/DE/CS	\$5,315
Kalikimaka Pl	6	0.07	651	LO/DE/CS	\$3,691
Kaluaopalena Pl	6	0.08	770	LO/DE/CS	\$4,368
Kamehameha Pl	6	0.11	1,020	LO/DE/CS	\$5,785
Kawananakoa Pl	6	0.09	843	LO/DE/CS	\$4,779
Kimo Ct	6	0.12	1,138	LO/DE/CS	\$6,453
Kimo Pl	6	0.10	932	LO/DE/CS	\$5,284
Kipona Ct	6	0.08	706	LO/DE/CS	\$4,007
Kolo Ct	6	0.03	323	LO/DE/CS	\$1,831
Kolo Way	6	0.13	1,264	Local	\$7,171
Lae Pl	6	0.07	657	LO/DE/CS	\$3,729
Live Oak Ct	6	0.05	514	LO/DE/CS	\$2,914
Lono Pl	6	0.13	1,180	LO/DE/CS	\$6,695
Makiki Dr	6	0.29	2,769	Local	\$15,705

Roadway Name	RSR	Length (Miles)	Square Yards	Class	Repair Est.
Mohonua Pl	6	0.15	1,376	LO/DE/CS	\$7,805
Noma Dr	6	0.06	618	Local	\$4,432
Noma Pl	6	0.05	497	LO/DE/CS	\$2,817
Oaks Blvd	6	0.47	4,405	Local	\$24,983
Op la Pl	6	0.08	705	LO/DE/CS	\$3,999
Op la Way	6	0.45	4,207	Local	\$23,860
Poni Pl	6	0.10	944	LO/DE/CS	\$5,353
Whispering Branch Way 6		0.13	1,227	LO/DE/CS	\$6,961
Whispering Branch Way 6		0.04	393	Local	\$2,227
Wilderness Run	6	0.10	921	Local	\$5,226
<u>Totals</u>	<u>6</u>	<u>4.53</u>	<u>42,651</u>		<u>\$242,841</u>

Fog and Crack Seal (20')

Ahi Ct	7	0.10	983	LO/DE/CS	\$1,671
Ahi Dr	7	0.20	1,904	Local	\$3,237
Amoka Dr	7	0.13	1,178	Local	\$2,003
Analii St	7	0.29	2,681	Local	\$4,558
Diamondhead Dr N	7	1.82	14,443	Major Collector	\$24,553
Gex Rd	7	0.13	1,563	LO/DE/CS	\$2,657
Kaleki Ct	7	0.05	480	LO/DE/CS	\$817
Kaleki Pl	7	0.06	572	LO/DE/CS	\$973
Kapalama Dr	7	0.17	1,173	LO/DE/CS	\$1,995
Kapalama Dr	7	0.23	2,675	Local	\$8,158
Kono Pl	7	0.08	781	LO/DE/CS	\$1,327
Laa la Ct	7	0.11	1,010	LO/DE/CS	\$1,718
Live Oak Dr	7	0.07	1,233	LO/DE/CS	\$3,761
Lola Ct	7	0.04	375	LO/DE/CS	\$638
Lola Dr	7	0.14	1,356	Local	\$2,306
Makiki Ct	7	0.05	469	LO/DE/CS	\$797
Makiki Dr	7	0.21	2,018	Local	\$3,430
Maunalani Pl	7	0.25	2,300	LO/DE/CS	\$3,910
Noma Dr	7	0.58	6,477	Local	\$14,668
<u>Totals</u>	<u>7</u>	<u>4.71</u>	<u>43,673</u>		<u>\$83,177</u>

Fog and Crack Seal (40')

Roadway Name	RSR	Length (Miles)	Square Yards	Class	Repair Est.
Ahi Dr	8	0.17	1,634	Local	\$2,043
Amoka Dr	8	0.30	2,862	Local	\$3,578
Kahala Dr	8	0.39	3,679	Local	\$4,598
Maunalani Pl	8	0.03	296	LO/DE/CS	\$371
<u>Totals</u>	<u>8</u>	<u>0.90</u>	<u>8,472</u>		<u>\$10,590</u>
<u>Ward 1 Totals</u>	5	18.14	175,477		\$1,155,619

Roadway Name	RSR	Length (Miles)	Square Yards	Class	Repair Est.
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Ward 2

Rehabilitation

Kepuhi Ct	3	0.05	501	LO/DE/CS	\$7,764
Totals	3	0.05	501		\$7,764

Structural Overlay

Ana Hulu St	4	0.13	1,494	Local	\$16,126
Totals	4	0.13	1,494		\$16,126

Cape Seal

Ala Moana Ct	5	0.06	711	LO/DE/CS	\$5,331
Ala Moana St	5	0.06	707	LO/DE/CS	\$5,295
Ala Moana St	5	0.44	5,165	Local	\$38,710
Ana Hulu St	5	0.27	3,125	Local	\$23,417
Hamakua Ct	5	0.04	472	LO/DE/CS	\$3,535
Hamakua St	5	0.15	1,796	Local	\$13,456
Honomu Ct	5	0.06	723	LO/DE/CS	\$5,421
Honomu Pl	5	0.14	1,660	LO/DE/CS	\$12,440
Kaena Ct	5	0.03	369	LO/DE/CS	\$2,765
Kaena Pl	5	0.14	1,503	LO/DE/CS	\$11,263
Kaena St	5	0.06	610	LO/DE/CS	\$4,574
Kahana St	5	0.25	2,912	Local	\$21,820
Kaimu St	5	0.11	1,257	Local	\$9,421
Kalae Ct	5	0.02	273	LO/DE/CS	\$2,046
Kalae St	5	0.25	2,963	Local	\$22,208
Kapalama Dr	5	0.42	4,888	Major Collector	\$43,233
Koloa St	5	0.11	1,269	Local	\$9,507
Laa la Way	5	0.05	511	Local	\$3,830
Linhau Way	5	0.36	3,840	Local	\$28,775
Muolea Ct	5	0.11	1,238	LO/DE/CS	\$9,277
Pahoa Ct	5	0.09	1,028	LO/DE/CS	\$7,705
Pine Ridge Blvd	5	0.17	1,972	LO/DE/CS	\$14,781
Pine Ridge Ct	5	0.04	426	LO/DE/CS	\$3,195

Roadway Name	RSR	Length (Miles)	Square Yards	Class	Repair Est.
Pokai Ct	5	0.03	341	LO/DE/CS	\$2,555
Pokai St	5	0.04	471	LO/DE/CS	\$3,529
Pokai Way	5	0.10	1,106	Local	\$8,289
Turnberry Ct	5	0.04	438	LO/DE/CS	\$3,282
Totals	5	3.64	41,775		\$319,660

Thin Lift

Diamondhead Dr N	5	0.19	1,529	Major Collector	\$14,781
Diamondhead Dr W	5	0.33	2,600	Major Collector	\$25,142
Golf Club Dr	5	0.36	4,166	Major Collector	\$45,902
Totals	5	0.88	8,295		\$85,825

Microsurfacing

Ala Moana St	6	0.10	1,192	Local	\$6,762
Cherryhill Dr	6	0.07	787	LO/DE/CS	\$4,463
Cherryhill Dr	6	0.30	3,553	Local	\$20,154
Diamondhead Dr W	6	2.12	16,777	Major Collector	\$95,162
Facilities Maint Dr	6	0.05	541	LO/DE/CS	\$3,070
Haiku Ct	6	0.09	1,016	LO/DE/CS	\$5,763
Halawa Ct	6	0.04	491	LO/DE/CS	\$2,784
Hamakua St	6	0.07	826	Local	\$4,686
Highpoint Dr	6	0.23	2,677	LO/DE/CS	\$15,186
Highpoint Dr	6	0.74	8,678	Local	\$49,223
Honalo Pl	6	0.09	1,109	LO/DE/CS	\$6,293
Kahana St	6	0.34	3,959	Local	\$22,454
Kapalama Dr	6	0.20	2,353	Local	\$16,524
Kapalama Dr	6	0.07	776	Major Collector	\$5,451
Koloa St	6	0.24	2,795	Local	\$15,854
Kunia Ct	6	0.04	458	LO/DE/CS	\$2,600
Laa la Pl	6	0.09	824	LO/DE/CS	\$4,675
Laa la Way	6	0.28	2,613	Local	\$14,818
Laala Pl	6	0.13	1,224	LO/DE/CS	\$6,941
Luawai Way	6	0.33	3,521	Local	\$19,971
Maili Way	6	0.06	694	Local	\$3,937
Oakmont Way	6	0.10	1,211	LO/DE/CS	\$6,867

Roadway Name	RSR	Length (Miles)	Square Yards	Class	Repair Est.
Pokai St	6	0.29	3,405	Local	\$19,315
Pokai Way	6	0.39	4,247	Local	\$24,089
Polo Ct	6	0.03	339	LO/DE/CS	\$1,922
Puako Ct	6	0.05	617	LO/DE/CS	\$3,499
Turnberry Dr	6	0.84	9,847	Local	\$55,850
Turnberry Way	6	0.14	1,636	LO/DE/CS	\$9,278
Totals	6	7.52	78,167		\$447,591

Fog and Crack Seal (20')

Apua Ct	7	0.04	402	LO/DE/CS	\$684
Apua St	7	0.20	2,118	Local	\$3,601
Augusta Way	7	0.12	1,416	LO/DE/CS	\$2,408
Crooked Stick Dr	7	0.33	3,866	LO/DE/CS	\$6,572
Diamondhead Dr W	7	1.01	8,023	Major Collector	\$13,638
Doral Ct	7	0.03	322	LO/DE/CS	\$548
Haena Ct	7	0.07	759	LO/DE/CS	\$1,291
Hawi Ct	7	0.05	535	LO/DE/CS	\$910
Kaimuki Ct	7	0.15	1,784	LO/DE/CS	\$3,033
Kaimuki St	7	0.06	680	LO/DE/CS	\$1,157
Kalae Ct	7	0.04	413	LO/DE/CS	\$702
Kapalama Dr	7	0.42	4,900	Local	\$14,946
Kini Ct	7	0.04	417	LO/DE/CS	\$709
Kini Pl	7	0.08	887	LO/DE/CS	\$1,508
Kini St	7	0.16	1,712	Local	\$2,911
Kino Pl	7	0.13	1,356	LO/DE/CS	\$2,305
Kino St	7	0.15	1,533	Local	\$2,606
Koloa Ct	7	0.09	984	LO/DE/CS	\$1,673
Koloa St	7	0.52	5,835	Local	\$9,920
Laa la Way	7	0.15	1,398	Local	\$2,376
Lamaloe Ct	7	0.04	468	LO/DE/CS	\$796
Lilinoe Ct	7	0.03	366	LO/DE/CS	\$622
Lilinoe Pl	7	0.07	705	LO/DE/CS	\$1,199
Lilinoe Pl	7	0.05	579	Local	\$985
Lilinoe Way	7	0.49	5,189	Local	\$8,822
Limu Pl	7	0.12	1,218	LO/DE/CS	\$2,071
Limu Way	7	0.42	4,472	Local	\$7,602

Roadway Name	RSR	Length (Miles)	Square Yards	Class	Repair Est.
Linoahu Way	7	0.20	2,067	Local	\$3,515
Lualini Pl	7	0.14	1,508	LO/DE/CS	\$2,564
Luawai Pl	7	0.17	1,796	LO/DE/CS	\$3,053
Pinehurst Ct	7	0.04	429	LO/DE/CS	\$729
Pueo Ct	7	0.04	385	LO/DE/CS	\$654
Spyglass Ct	7	0.03	339	LO/DE/CS	\$577
St Andrews Ct	7	0.03	309	LO/DE/CS	\$525
Troon Ct	7	0.04	455	LO/DE/CS	\$774
<u>Totals</u>	<u>7</u>	<u>5.74</u>	<u>59,627</u>		<u>\$107,986</u>

Fog and Crack Seal (40')

Crooked Stick Dr	8	0.11	1,259	LO/DE/CS	\$1,574
Kalae St	8	0.15	1,736	Local	\$2,170
Koloa St	8	0.06	697	Local	\$872
<u>Totals</u>	<u>8</u>	<u>0.31</u>	<u>3,692</u>		<u>\$4,616</u>

Defer Treatment

Hamakua St	10	0.10	1,129	Local	\$0
<u>Totals</u>	<u>10</u>	<u>0.10</u>	<u>1,129</u>		<u>\$0</u>
<u>Ward 2 Totals</u>	<u>6</u>	<u>18.37</u>	<u>194,679</u>		<u>\$989,568</u>

Roadway Name	RSR	Length (Miles)	Square Yards	Class	Repair Est.
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Ward 3

Reconstruction

Olu Dr	1	0.07	876	LO/DE/CS	\$25,700
<u>Totals</u>	<u>1</u>	<u>0.07</u>	<u>876</u>		<u>\$25,700</u>

Reconstruction

Akoko St	2	0.05	543	LO/DE/CS	\$15,319
Mele Pl	2	0.03	323	LO/DE/CS	\$9,124
Olu Pl	2	0.11	1,261	LO/DE/CS	\$35,584
<u>Totals</u>	<u>2</u>	<u>0.18</u>	<u>2,128</u>		<u>\$60,027</u>

Rehabilitation

Ahui St	3	0.07	768	Local	\$11,909
Gex Dr	3	0.09	1,041	Major Collector	\$16,141
Golf Club Drive	3	0.24	2,772	Major Collector	\$46,742
Kaiki Ct	3	0.04	468	LO/DE/CS	\$7,251
Kalo Ct	3	0.07	791	LO/DE/CS	\$12,274
<u>Totals</u>	<u>3</u>	<u>0.51</u>	<u>5,840</u>		<u>\$94,317</u>

Structural Overlay

Diamondhead Dr E	4	0.90	10,443	Major Collector	\$126,512
Hau St	4	0.15	1,707	LO/DE/CS	\$18,419
Kome Dr	4	0.05	561	Local	\$6,048
Luakini Pl	4	0.13	1,478	LO/DE/CS	\$15,953
<u>Totals</u>	<u>4</u>	<u>1.22</u>	<u>14,188</u>		<u>\$166,932</u>

Cape Seal

Ahoni St	5	0.27	3,202	Local	\$23,999
Aila St	5	0.38	4,400	Local	\$32,976
Alakoko Ct	5	0.08	872	LO/DE/CS	\$6,538
Anela St	5	0.08	722	LO/DE/CS	\$5,411
Anoai Ct	5	0.04	505	LO/DE/CS	\$3,783

Roadway Name	RSR	Length (Miles)	Square Yards	Class	Repair Est.
Anuaea St	5	0.06	738	LO/DE/CS	\$5,529
Apelehama Rd	5	0.32	3,385	Local	\$25,367
Apona Ct	5	0.04	502	LO/DE/CS	\$3,763
Apona St	5	0.23	2,693	LO/DE/CS	\$20,178
Apuwai Pl	5	0.14	1,613	LO/DE/CS	\$12,087
Aulena Ct	5	0.05	562	LO/DE/CS	\$4,210
Diamondhead Dr E	5	0.04	451	LO/DE/CS	\$3,382
Diamondhead Dr S	5	0.37	3,218	Local	\$24,118
Fairway Dr	5	0.29	3,092	Local	\$23,172
Hale Ct	5	0.08	882	LO/DE/CS	\$6,606
Hanauma Ct	5	0.06	656	LO/DE/CS	\$4,915
Hanauma Pl	5	0.04	466	LO/DE/CS	\$3,491
Hanauma St	5	0.16	1,687	LO/DE/CS	\$12,645
Harbor Cir	5	0.23	2,703	Local	\$20,255
Hoaka Ln	5	0.05	518	LO/DE/CS	\$3,884
Indian Hill Dr	5	0.06	1,021	LO/DE/CS	\$7,650
Iolani Ct	5	0.10	1,097	LO/DE/CS	\$8,217
Iona St	5	0.07	720	LO/DE/CS	\$5,399
Kaiki Dr	5	0.19	2,200	Local	\$16,486
Kalipekona Way	5	0.11	1,035	LO/DE/CS	\$7,757
Kiko St	5	0.25	2,611	Local	\$19,563
Kome Dr	5	0.03	355	Local	\$2,660
Koula Pl	5	0.08	806	LO/DE/CS	\$6,043
Leke Pl	5	0.04	395	LO/DE/CS	\$2,964
Loulu Pl	5	0.15	1,776	LO/DE/CS	\$13,308
Lumahai Pl	5	0.13	1,475	LO/DE/CS	\$11,057
Mahalo Hui Dr	5	0.07	755	LO/DE/CS	\$5,660
N Fairway Dr	5	0.02	198	LO/DE/CS	\$1,485
Oliwa Pl	5	0.09	916	LO/DE/CS	\$6,868
Paani Ct	5	0.14	1,608	LO/DE/CS	\$12,054
Totals	5	4.53	49,837		\$373,480

Thin Lift

Airport Dr	5	0.30	2,628	Local	\$25,409
Diamondhead Dr E	5	1.45	11,834	Major Collector	\$116,200

Roadway Name	RSR	Length (Miles)	Square Yards	Class	Repair Est.
Gex Dr	5	0.46	5,385	Major Collector	\$52,067
Kalani Dr	5	0.28	3,621	Minor Arterial	\$39,594
W Aloha Dr	5	0.10	2,554	Minor Arterial	\$26,993
Totals	5	2.58	26,022		\$260,263

Microsurfacing

Ahekolo Cir	6	0.38	4,028	Local	\$22,848
Ahiahi Pl	6	0.06	638	LO/DE/CS	\$3,621
Ahihi St	6	0.21	2,200	Local	\$12,478
Ahuawa Pl	6	0.21	2,252	LO/DE/CS	\$12,775
Ahui St	6	0.13	1,328	Local	\$7,532
Ahuli Pl	6	0.07	688	LO/DE/CS	\$3,902
Airport Cir	6	0.29	2,548	Local	\$14,451
Airport Dr	6	1.06	9,367	Local	\$53,131
Akamu Ct	6	0.06	672	LO/DE/CS	\$3,813
Akoko St	6	0.12	1,400	Local	\$7,942
Alakoko Dr	6	0.32	3,720	Local	\$26,120
Alewa Pl	6	0.10	1,081	LO/DE/CS	\$6,134
Alii Pl	6	0.08	851	LO/DE/CS	\$4,829
Alkii Ct	6	0.04	429	LO/DE/CS	\$2,432
Alkii Pl	6	0.03	324	LO/DE/CS	\$1,837
Alkii Way	6	0.40	4,635	Local	\$26,290
Aloha Cir	6	0.03	349	LO/DE/CS	\$2,454
Aloha Cir	6	0.04	491	Local	\$3,449
Analii St	6	0.35	3,299	Local Collector	\$18,710
Apelehama Cir	6	0.11	1,116	LO/DE/CS	\$6,330
Apelehama Pl	6	0.09	995	LO/DE/CS	\$5,641
Apelehama Rd	6	0.23	2,448	Local	\$13,888
Apuwai Pl	6	0.11	1,279	LO/DE/CS	\$7,255
Auiki Pl	6	0.09	1,065	LO/DE/CS	\$6,043
Aupuni Pl	6	0.12	1,377	LO/DE/CS	\$7,811
Coelho Way	6	0.45	5,251	LO/DE/CS	\$29,781
Diamondhead Cir	6	0.06	759	Major Collector	\$4,305
Diamondhead Dr E	6	0.28	3,328	Major Collector	\$18,876
Diamondhead Dr N	6	0.10	768	Major Collector	\$4,357
Enos St	6	0.06	733	LO/DE/CS	\$4,160

Roadway Name	RSR	Length (Miles)	Square Yards	Class	Repair Est.
Fairway Dr	6	0.12	1,306	Local	\$7,409
Gex Dr	6	0.36	4,200	Minor Arterial	\$29,494
Haina St E	6	0.10	1,145	Local	\$6,493
Harbor Cir	6	0.05	537	Local	\$3,043
Harbor Ct	6	0.05	594	LO/DE/CS	\$3,367
Hoaka Ln	6	0.05	578	Local	\$3,277
Huko Ct	6	0.05	544	LO/DE/CS	\$3,084
Iona Ct	6	0.02	190	LO/DE/CS	\$1,078
Iona St	6	0.24	2,538	Local	\$14,397
Kaiki Cir	6	0.04	470	LO/DE/CS	\$2,665
Kaiki Dr	6	0.36	4,195	Local	\$23,795
Kalipekona Ct	6	0.08	704	LO/DE/CS	\$3,995
Kanoa Way	6	0.16	1,856	LO/DE/CS	\$10,526
Kiko St	6	0.12	1,311	Local	\$7,434
Kome Pl	6	0.07	708	LO/DE/CS	\$4,017
Koula Dr	6	0.31	3,300	Local	\$18,719
Lakeview Ct	6	0.06	686	LO/DE/CS	\$3,891
Mahalo Hui Dr	6	0.41	4,832	Local	\$33,928
Mahalohui Dr	6	0.14	1,652	Local	\$11,604
Mauna Loa Ct	6	0.10	1,069	LO/DE/CS	\$6,066
Mauna Loa Pl	6	0.11	1,154	LO/DE/CS	\$6,548
Olu Dr	6	0.07	772	LO/DE/CS	\$4,380
Tahiti Cir	6	0.05	515	LO/DE/CS	\$2,921
W Aloha Dr	6	0.07	1,895	Minor Arterial	\$12,457
Totals	6	8.86	96,174		\$567,783

Fog and Crack Seal (20')

Ahekolo Cir	7	0.34	3,568	Local	\$6,066
Ahiahia Pl	7	0.06	655	LO/DE/CS	\$1,114
Ahui St	7	0.15	1,634	Major Collector	\$2,778
Ahuli Pl	7	0.13	1,365	LO/DE/CS	\$2,321
Airport Dr	7	0.05	427	Local	\$726
Alakoko Dr	7	0.04	507	LO/DE/CS	\$862
Alakoko Dr	7	0.38	3,962	Local	\$6,735
Alewa Pl	7	0.05	478	LO/DE/CS	\$813

Roadway Name	RSR	Length (Miles)	Square Yards	Class	Repair Est.
Alii Pl	7	0.13	1,365	LO/DE/CS	\$2,321
Anoai Way	7	0.18	2,128	Local	\$3,618
Apelehama Ct	7	0.07	770	LO/DE/CS	\$1,309
Diamondhead Cir	7	0.14	1,638	Major Collector	\$2,785
Diamondhead Dr E	7	0.52	6,151	Major Collector	\$12,909
Diamondhead Dr N	7	0.63	5,029	Major Collector	\$8,548
Diamondhead Dr W	7	0.08	610	Major Collector	\$1,037
Gex Dr	7	0.30	3,528	Major Collector	\$5,997
Gex Dr	7	0.04	1,579	Minor Arterial	\$4,105
Golf Club Dr	7	0.07	837	Major Collector	\$2,553
Hanakealoha Pl	7	0.15	1,769	LO/DE/CS	\$3,008
Iki Pl	7	0.12	1,361	LO/DE/CS	\$2,314
Kalaepohuku Dr	7	0.54	6,301	LO/DE/CS	\$10,712
Kanoa Way	7	0.09	1,048	LO/DE/CS	\$1,781
Kaumakapili St	7	0.37	4,373	LO/DE/CS	\$7,434
Make Way	7	0.26	3,109	Local	\$5,285
Mapunapuna Dr	7	0.15	1,737	LO/DE/CS	\$2,953
Mauna Loa Dr	7	0.24	2,495	Local	\$4,241
Poki Pl	7	0.16	1,919	LO/DE/CS	\$3,262
Puunani Pl	7	0.14	1,655	LO/DE/CS	\$2,814
Shepherd Sq	7	0.17	2,041	LO/DE/CS	\$3,471
Shepherd Sq	7	0.15	1,703	Local	\$5,195
Vaught Cir	7	0.22	2,593	Local	\$4,407
Yacht Club Cir	7	0.13	1,181	Local	\$2,008
Yacht Club Dr	7	0.31	2,732	Local Collector	\$4,644
Totals	7	6.58	72,249		\$130,126

Fog and Crack Seal (40')

Alakoko Pl	8	0.09	986	LO/DE/CS	\$1,233
Anela St	8	0.02	197	LO/DE/CS	\$246
Kalipekona Way	8	0.37	4,354	Local	\$5,442
Kome Ct	8	0.04	434	LO/DE/CS	\$543
Kome Dr	8	0.43	4,540	Local	\$5,675
Mauna Loa Dr	8	0.32	3,342	Local	\$4,178
Mauna Pl	8	0.05	492	LO/DE/CS	\$614
Veterans Dr	8	0.15	2,334	Local	\$5,340

Roadway Name	RSR	Length (Miles)	Square Yards	Class	Repair Est.
<u>Totals</u>	<u>8</u>	<u>1.47</u>	<u>16,679</u>		<u>\$23,271</u>
<u>Ward 3 Totals</u>	6	26.01	283,992		\$1,701,899

Roadway Name	RSR	Length (Miles)	Square Yards	Class	Repair Est.
Ward 4					
Structural Overlay					
Diamondhead Dr E	4	0.06	506	Major Collector	\$5,458
Kipapa Way	4	0.18	2,103	Local	\$22,693
<u>Totals</u>	<u>4</u>	<u>0.24</u>	<u>2,609</u>		<u>\$28,151</u>
Cape Seal					
Apaki Pl	5	0.18	2,136	LO/DE/CS	\$16,010
Awini Ct	5	0.06	673	LO/DE/CS	\$5,046
Awini St	5	0.06	678	LO/DE/CS	\$5,079
Country Club Cir	5	0.06	890	Local	\$6,667
Hana Pl	5	0.18	2,123	LO/DE/CS	\$15,906
Hapuna Pl	5	0.09	1,083	LO/DE/CS	\$8,118
Hilo Ct	5	0.06	695	LO/DE/CS	\$5,209
Hilo Pl	5	0.14	1,623	LO/DE/CS	\$12,164
Hilo St	5	0.22	1,700	Local	\$12,738
Hilo Way	5	0.24	1,834	Local	\$13,744
Kaimu St	5	0.03	383	Local	\$2,869
Kalalau St	5	0.16	1,921	LO/DE/CS	\$14,396
Koko Pl	5	0.14	1,599	LO/DE/CS	\$11,986
Koko St	5	0.09	1,080	LO/DE/CS	\$8,094
Laie Ct	5	0.12	1,372	LO/DE/CS	\$10,282
Lanai Ct	5	0.06	724	LO/DE/CS	\$5,428
Loa Ct	5	0.06	672	LO/DE/CS	\$5,037
Loa Pl	5	0.13	1,503	LO/DE/CS	\$11,267
Malino Pl	5	0.09	1,090	LO/DE/CS	\$8,167
Maui Cir	5	0.28	3,310	Local	\$24,805
Maui Ct	5	0.06	692	LO/DE/CS	\$5,189
Maui Pl	5	0.19	2,254	LO/DE/CS	\$16,894
Maui St	5	0.05	622	LO/DE/CS	\$4,658
Maui St	5	0.07	827	Local	\$6,196
Oahu St	5	0.21	2,479	LO/DE/CS	\$18,580
Pelican Cove	5	0.07	787	LO/DE/CS	\$5,900
<u>Totals</u>	<u>5</u>	<u>3.11</u>	<u>34,752</u>		<u>\$260,429</u>

Roadway Name	RSR	Length (Miles)	Square Yards	Class	Repair Est.
Thin Lift					
Diamondhead Dr E	5	3.56	28,201	Major Collector	\$272,678
Golf Club Dr	5	1.10	12,707	Major Collector	\$137,975
<u>Totals</u>	<u>5</u>	<u>4.66</u>	<u>40,908</u>		<u>\$410,653</u>

Microsurfacing					
Apaki Pl	6	0.07	780	LO/DE/CS	\$4,424
Auahi Pl	6	0.06	668	LO/DE/CS	\$3,789
Aulena Pl	6	0.17	2,042	LO/DE/CS	\$11,583
Awini St	6	0.16	1,846	LO/DE/CS	\$10,471
Country Club Cir	6	0.16	2,320	Local	\$13,159
Diamondhead Dr E	6	0.50	4,364	Major Collector	\$24,751
Ewa Ct	6	0.10	1,115	LO/DE/CS	\$6,325
Hanalei Pl	6	0.10	1,160	LO/DE/CS	\$6,581
Hapuna Pl	6	0.08	951	LO/DE/CS	\$5,397
Hapuna St	6	0.06	655	LO/DE/CS	\$3,714
Hilo Way	6	2.03	15,488	Local	\$87,851
Kaimu St	6	0.04	424	LO/DE/CS	\$2,405
Kipapa Ct	6	0.06	670	LO/DE/CS	\$3,798
Kipapa Way	6	0.30	3,479	Local	\$19,736
Lakeside Villa	6	0.13	1,477	LO/DE/CS	\$8,380
Lanai St	6	0.17	1,990	Local	\$13,975
Lanai Vlg	6	0.22	2,594	Local	\$14,712
Maili Ct	6	0.07	813	LO/DE/CS	\$4,613
Maili Pl	6	0.08	956	LO/DE/CS	\$5,424
Maili Way	6	0.25	2,933	Local	\$16,633
Malie Pl	6	0.09	1,039	Local	\$5,896
Malino Way	6	0.05	537	LO/DE/CS	\$3,048
Manoo St	6	0.06	663	Local	\$3,759
Oahu Ct	6	0.16	1,880	LO/DE/CS	\$10,664
Puna Ct	6	0.09	1,053	LO/DE/CS	\$5,971
Puna Pl	6	0.08	952	LO/DE/CS	\$5,402
Puna St	6	0.04	504	LO/DE/CS	\$2,856
<u>Totals</u>	<u>6</u>	<u>5.36</u>	<u>53,355</u>		<u>\$305,317</u>

Roadway Name	RSR	Length (Miles)	Square Yards	Class	Repair Est.
Fog and Crack Seal (20')					
Anahola Ct	7	0.06	732	LO/DE/CS	\$1,245
Aumoae Ct	7	0.08	900	LO/DE/CS	\$1,529
Country Club Cir	7	0.14	2,030	Local	\$3,451
Golf Club Dr	7	0.21	2,470	Major Collector	\$7,533
Hilo St	7	0.17	1,946	Local	\$5,935
Lanai Pl	7	0.09	1,065	LO/DE/CS	\$1,811
Lanai St	7	0.04	433	Local	\$1,320
Lanai Vlg	7	0.28	3,249	Local	\$5,523
Mamalu Pl	7	0.09	999	LO/DE/CS	\$1,698
Manoo Ct	7	0.05	539	LO/DE/CS	\$916
Manoo Pl	7	0.14	1,645	LO/DE/CS	\$2,796
Manoo St	7	0.17	1,956	Local	\$3,326
Oio Pl	7	0.08	974	LO/DE/CS	\$1,656
Oio Pl	7	0.06	710	Local	\$1,207
Puna Pl	7	0.05	636	LO/DE/CS	\$1,081
Totals	7	1.70	20,283		\$41,027

Fog and Crack Seal (40')					
Alawai Ave	8	0.30	3,560	Local	\$4,450
Anahola Pl	8	0.23	2,699	LO/DE/CS	\$3,374
Aukai Pl	8	0.06	714	LO/DE/CS	\$893
Diamondhead Dr E	8	0.03	400	Local Collector	\$1,039
Diamondhead Dr E	8	0.93	7,374	Major Collector	\$9,217
Ewa Pl	8	0.13	1,487	LO/DE/CS	\$1,859
Ewa St	8	0.09	999	LO/DE/CS	\$1,249
Hana Ct	8	0.06	717	LO/DE/CS	\$897
Hanalei Cir	8	0.35	4,134	Local	\$5,168
Hilo St	8	0.24	2,803	Local	\$7,289
Kailua Pl	8	0.23	2,697	LO/DE/CS	\$3,371
Laie Pl	8	0.15	1,732	LO/DE/CS	\$2,165
Laie St	8	0.21	2,427	LO/DE/CS	\$3,033
Mamalu Pl	8	0.05	558	LO/DE/CS	\$698
Manini Way	8	0.38	4,498	Local	\$5,623

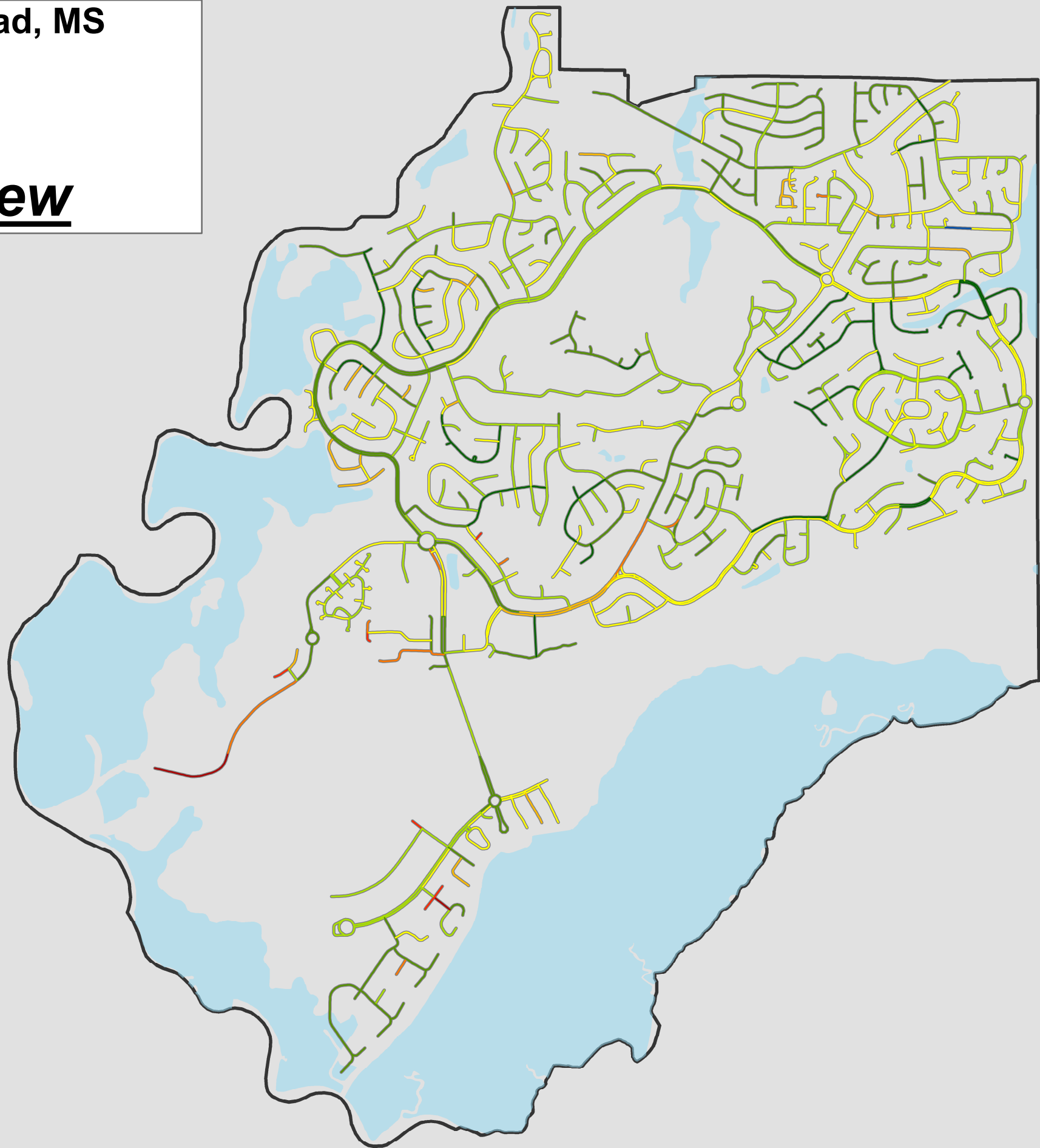
Roadway Name	RSR	Length (Miles)	Square Yards	Class	Repair Est.
Moanalua Way	8	0.52	6,109	Local	\$7,636
<u>Totals</u>	<u>8</u>	<u>3.96</u>	<u>42,910</u>		<u>\$57,961</u>
<u>Ward 4 Totals</u>	6	19.03	194,817		\$1,103,538

Appendix D - System Rating Maps

Overall System Ratings
Ward Ratings

City of Diamondhead, MS
Road Surface Ratings

Overall View

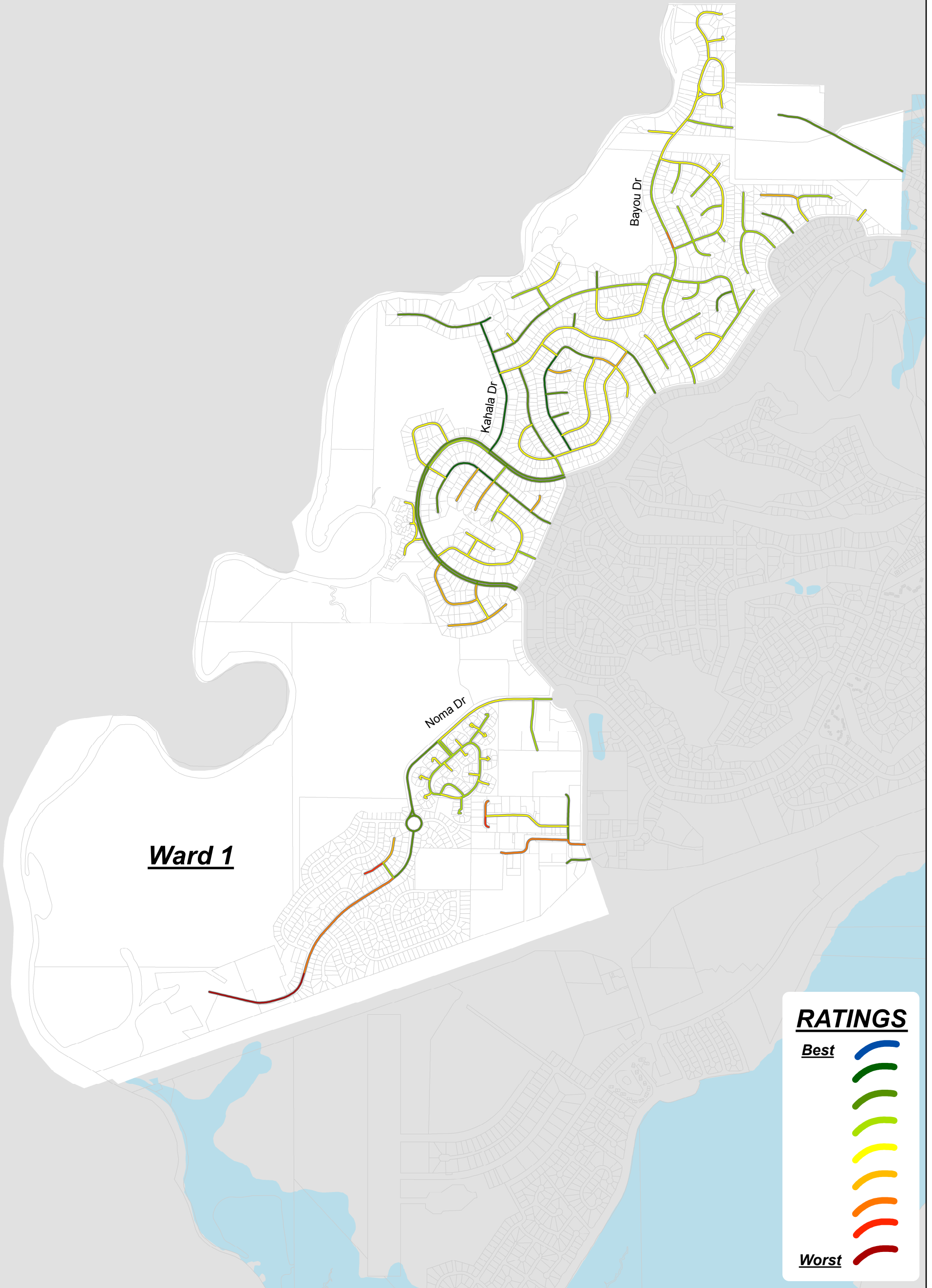


City of Diamondhead, MS
Road Surface Ratings

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Ward 1



Ward 1

RATINGS

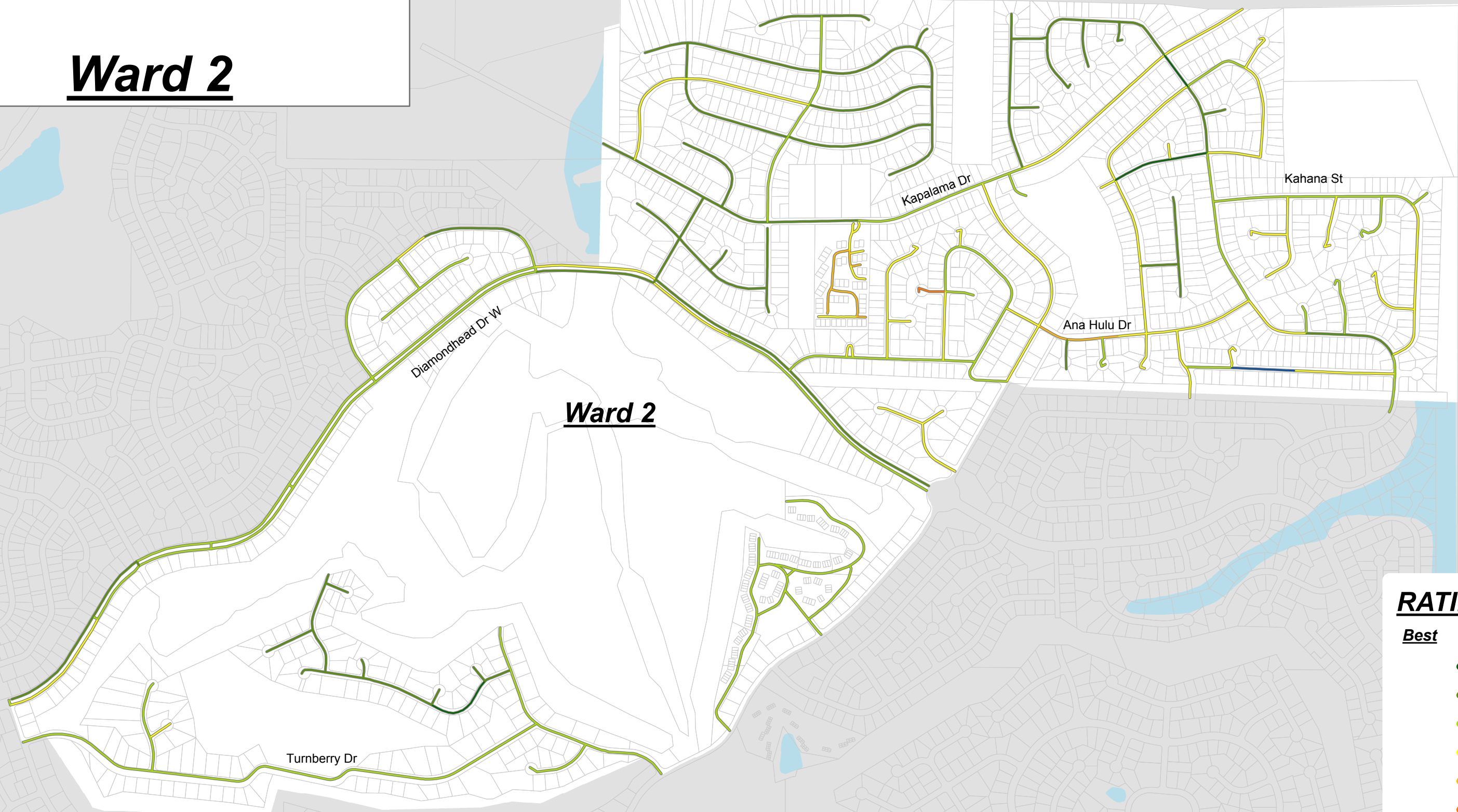


City of Diamondhead, MS
Road Surface Ratings



Ward 2

Ward 2



RATINGS

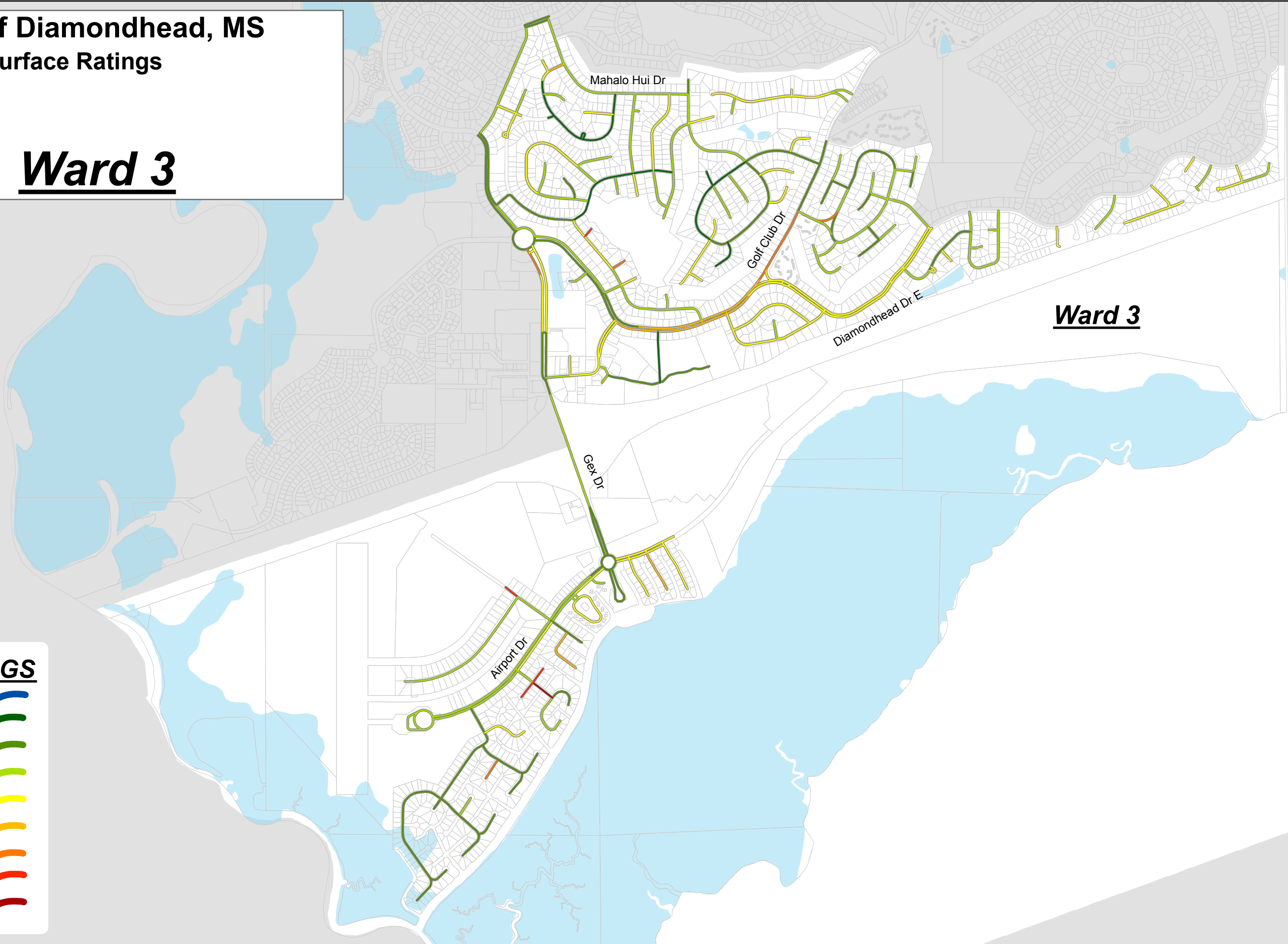


City of Diamondhead, MS
Road Surface Ratings



Ward 3

Ward 3



City of Diamondhead, MS
Road Surface Ratings



Ward 4

Ward 4

RATINGS

Best



Worst

