

# CITY OF CASTLE HILLS CAPITAL IMPROVEMENT PLAN

FY 2022-2025



*Corey S. Benavidez*

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## **1 EXECUTIVE SUMMARY**

RPS was authorized by the City of Castle Hills (City) to update the Capital Improvement Plan (CIP) to present at the December council meeting. RPS submitted the (CIP) in 2018 to the city and now needs updating based on the past 3 years of roadway improvements and the needed future improvements.

The purpose of the CIP is to provide the City with a 5-year street only improvement plan based on existing pavement condition information provided by the City. Streets within the City were analyzed by others and were assessed an overall condition index (OCI) rating. The OCI rating will serve as the basis for pavement related decisions and will allow the City to build an annual pavement maintenance and capital improvement projects plan. The CIP plan will utilize the provided information to develop an evaluation matrix and provide recommendations for maintenance and rehabilitation on City streets. This CIP plan will not incorporate any drainage related improvements. The plan will include an inventory, evaluation, and maintenance/CIP recommendation for approximately 27 miles of asphalt roadways.

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## 2 PAVEMENT RATING

The City of Castle Hills conducted a pavement condition survey in 2014 using a vehicular scanner on all City streets. The pavement condition survey, completed by others, utilized a mobile scanner to detect and incorporate pavement distresses such as alligator cracking, depressions, and potholes to develop an overall condition index for each individual street segment. The data is currently managed by the City using Cartograph, a pavement management software, to monitor and update all street conditions and associated OCI values to include all street and drainage improvements made through 2018. The OCI rating for each street segment varies between zero and one hundred, with zero representing the poorest possible pavement, and one hundred representing the best possible pavement. The American Society for Testing & Materials (ASTM) has adopted this rating criteria as one of the standards for determining the pavement condition of a roadway. There is a total of 213 different street segments which were ranked and organized based on OCI ranges with a corresponding condition type as summarized below.

2018 Report		
OCI	Condition Type	Percent of City Streets
≤ 50	Poor	23.80%
70 - 51	Fair	33.60%
84 - 71	Satisfactory	20.60%
≥ 85	Good	22.00%

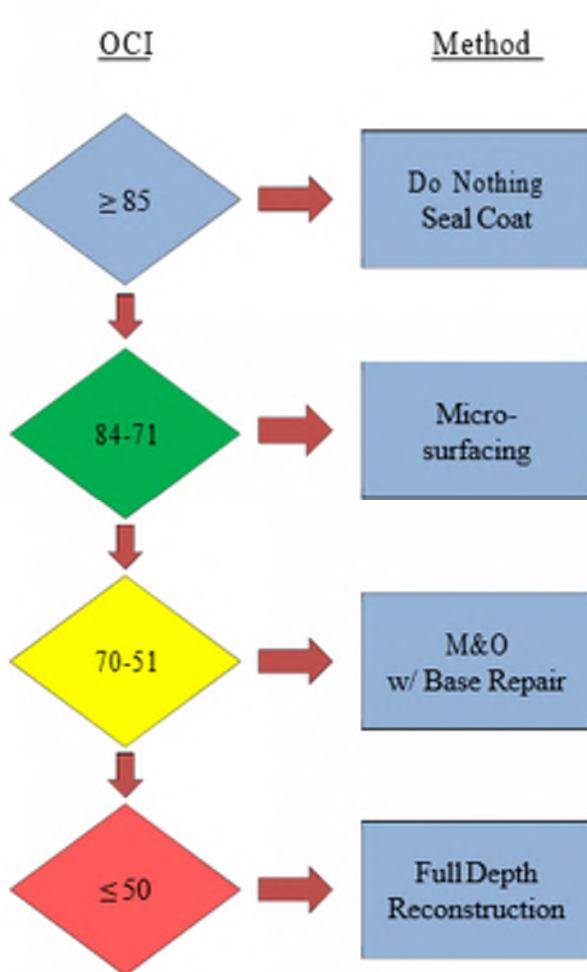
The updated OCI scores based on completed streets from 2018-2021 are summarized in the table below and listed in **Appendix A.1** and **A.2**. Comparing the 2018 pavement conditions and the 2021 pavement conditions you can see progress with an percentage increase in streets with scores above 71 and a significant decrease in the percentage of streets with a condition index of below 50.

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2021 Report		
OCI	Condition Type	Percent of City Streets
≤ 50	Poor	9.00%
70 - 51	Fair	21.00%
84 - 71	Satisfactory	7.00%
≥ 85	Good	63.00%

### 3 REPAIR/REHABILITATION MATRIX

Based on the OCI rating, a decision matrix was prepared in 2018 to determine what type of repair and/or rehabilitation method would be most effective in improving the roadway to a “good” condition type, or OCI rating of >84 if possible. For the 2018-2021 CIP the City utilized a combination of crack sealing, micro-surfacing, mill and overlay with base repairs and full depth reconstruction to maintain the roadway network. The specific activities to perform depend on the OCI rating and general pavement distresses as indicated in the following matrix. The City will continue to implement this matrix to address the next 5-year plan.



#### 3.1 Seal Coat

This repair method is the application of a diluted slow-setting asphalt emulsion to the surface of an existing asphalt pavement surface. This method is an early preventative maintenance technique used to restore flexibility to an existing asphalt surface prolong the life of a better conditioned roadway.

#### 3.2 Micro-surfacing

Micro-surfacing is a mixture of aggregate, asphalt emulsion, cement, and water spread over the entire roadway surface. In this method, the slurry seal is applied and adhered to the existing pavement surface. Slurry seals typically address minor longitudinal/transverse cracking, weathering, loss of friction, moisture infiltration and roughness.

#### 3.3 Mill and Overlay

This method consists of removing 1-2 inches of the existing top layer of asphalt and replacing with a new asphalt layer on top of the existing pavement base. The process of overlaying usually includes cleaning, and application of a tack coat, followed by a leveling course.

## 4 FULL DEPTH RECONSTRUCTION

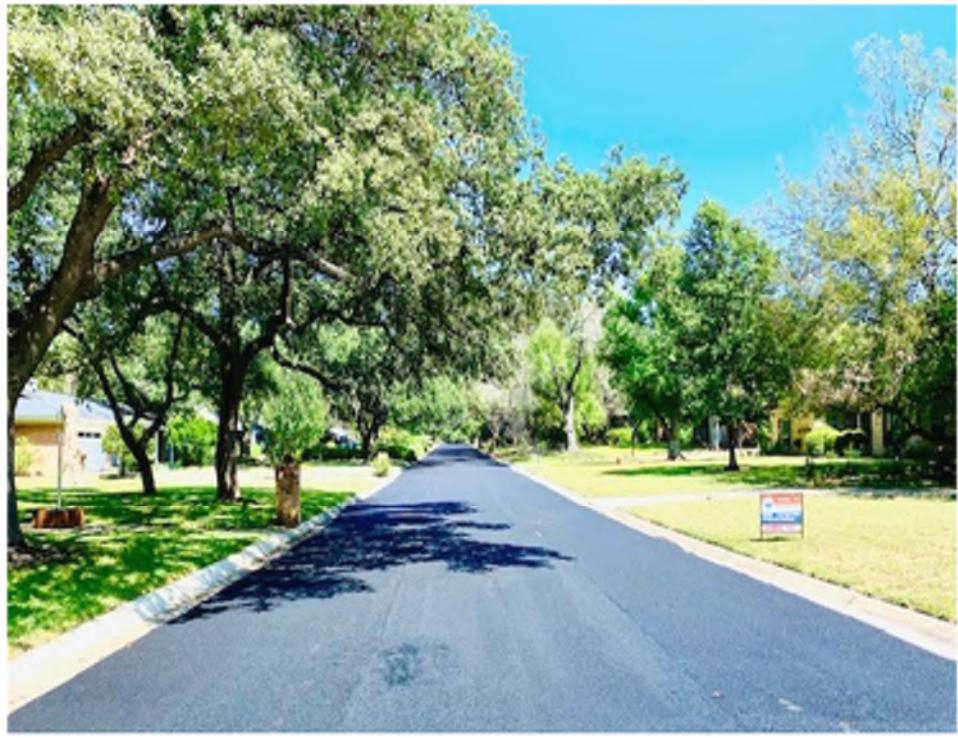
Full Depth Reconstruction is the replacement of the entire existing pavement structure by the placement of the equivalent or increased pavement structure. Reconstruction is appropriate when a pavement has structurally failed and can no longer support the traffic demand. Reconstruction increases the structural capacity of the pavement to a level that is required for long term performance.

Accepted industry standards and empirical data suggest a pavement life increase after each treatment activity is applied. The following treatment methods are estimated as follows:

Activity	Increase In Pavement Life
Seal Coat	4 Years
Micro-surfacing	5 Years
Mill and Overlay	8 Years
Full Depth Reconstruction	25 Years



**2021 Street Improvement Project (Lemonwood Dr. & Honeysuckle Ln)**



***2021 Microsurfacing Project (Tamworth Dr.)***

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## 5 COST BASIS

The cost estimates were updated from the 2018 costs based on recent City of Castle Hills bid quotes and the City of San Antonio (CoSA) standard unit pricing. TxDOT twelve month moving average unit bid price and bids received by surrounding municipalities were also used for items not bid on with recent City of Castle Hills projects. There was an increase in cost from the 2018 report due to review of the latest bid quotes.

Methods and Cost Break-downs per Method		
Method	*Cost	Units
Seal Coat	\$0.39	Sq Ft
Micro-surfacing	\$0.54	Sq Ft
Mill and Overlay	\$7.41	Sq Ft
Full Depth Reconstruction	\$11.37	Sq Ft

\*Cost breakdowns can be found in Appendix C

The basis of estimate for seal coat cost was formulated using a contractor's seal coat bid provided by the City. The bid estimate is priced for HA5 High Density Mineral Bond seal coat and is inclusive of traffic control and mobilization.

Micro-surfacing cost basis was based off contractor bids from projects completed within the past 3 years for the City of Castle Hills. The micro-surfacing bid item assumes 30 lbs. of aggregate per square yard. Bid items for mobilization, insurance and bond and preparation of right-of-way were determined using percentage values from CoSA standard unit bid prices.

The basis of estimate for mill and overlay was determined from CoSA standard unit bid prices and contractor bids from previous City of Castle Hills projects and nearby COSA projects. The total unit cost for mill and overlay is inclusive of mobilization, insurance and bond, and preparing right-of-way. Also included in this price is payment for removal, installation of new curb, 30% base repair, and 20% level up throughout the limits of mill and overlay.

Full depth reconstruction was determined utilizing the same pavement design for Banyan Dr. The pavement structure called for 6-inch lime treated subgrade, 6-inch flexible base, and 4-inch HMAC pavement TY D. The unit price for reconstruction

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includes replacement of curb and driveways. The driveway quantity was assumed and based on 4 driveway replacements every 100 feet.

Based on the pavement condition rating system established and the updated OCI scores based on streets completed from 2018-2021, The City of Castle Hills will require a Capital Improvement Plan (full depth reconstruction) for approximately 15% (3.31 miles) of the roadway network. The remainder of the roadway network will require a maintenance plan consisting of different types of surface treatments. The total cost required to provide maintenance and reconstruction of all streets is compared to from the 2018 cost vs the 2021 cost:

2018 Cost Breakdown			
Plan	Method	Percent of Total Cost	Cost
Maintenance	Seal Coat	1.60%	\$336,364
Maintenance	Micro-surfacing	2.00%	\$433,594
Maintenance	Mill and Overlay	47.80%	\$10,365,755
CIP	Reconstruction	48.60%	\$10,516,331
15% Contingency			\$3,247,806
Total Roadway Improvement Cost (15%)			\$24,899,850

2022 Cost Breakdown			
Plan	Method	Percent of Total Cost	Cost
Maintenance	Seal Coat	1.40%	\$175,057
Maintenance	Micro-surfacing	1.21%	\$152,083
Maintenance	Mill and Overlay	64.99%	\$8,142,029
CIP	Reconstruction	32.40%	\$4,058,519
15% Contingency			\$1,879,153
Total Roadway Improvement Cost (15%)			\$14,406,841

The City of Castle Hills 5-year projected budget for streets and maintenance through year 2025 is approximately \$3,252,185 based on information provided by City Staff. These available funds consist of the following:

**2022 Street Improvement Projects Phase II - \$1,900,000.00**

**2022 Street Maintenance – \$351,018.00**

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## **2023-2035 Street Improvement Projects - \$4,393,336.84**

The difference between the total 5-year cost for roadway/maintenance and available funds yields a shortfall of approximately \$10,504,585.89 needed to fully complete the roadway improvement plan. As a result, recommendations for the 5-year CIP plan will focus on streets that are considered high priority and will work within the limitations of the annual budget.

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## 6 RECOMMENDATIONS

The approach to the updated 5-year CIP plan will focus on maintaining better conditioned streets in conjunction with other repair methods. The most cost-effective way to extend a streets' service life is to perform minor maintenance, typically surface treatments, before the pavement reaches a critical deterioration point. Given the budgetary constraints, the proposed 5-year CIP plan is intended to become a living document that can be updated to interchange proposed street improvements based on priority. The 2021 updates represent the recommendations consistent with the 2018 report which categorize roadways with similar OCI ratings and evaluating adjacent streets with slightly different OCI ratings to determine logical groupings. The recommendations for the updated 5-year CIP are based on pavement condition ratings and budget provided by the City of Castle Hills. The pavement rating for each roadway segment have not been field verified. All recommendations are contingent upon the Engineer's site visit to confirm existing pavement conditions and recommended actions. The 5-year CIP plan is summarized as follows. A detailed breakdown for each CIP can be found in **Appendix A.5**.

### 6.1 Street Improvement Plan - Phase 1 (2018-2021)

The budget for Phase 1 provided allowance for maintenance and roadway for the capital improvement projects that included seal coats, mircosurfacing, and reconstruction. See the table below for completed projects for Phase 1 of the CIP.

Plan	Method	Roadway Segment	Cost
Maintenance	Seal Coat	Various	\$586,886.81
Maintenance	Micro-Surface	Various	\$417,465.00
Maintenance	Mill and Overlay	Various	\$537,263.00
CIP	Reconstruction	Various	\$5,578,755.60
Total Cost (Phase 1)			\$7,120,370.41

### 6.2 Street Improvement Plan - Phase 2 (2022-2025)

The projected annual budget for years 2022 through 2025 will consist of \$1,900,000 which will include reconstruction and street maintenance based on bids from proposed projects. The recommendations for years 2023 to 2025 are based on logical

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grouping and budgetary constraints. It is intended for these recommendations to be updated and recalibrated to account for changes in priority for street improvements or increase in budget.

***Year 1 (2022) cost: \$2,251,018.00***

***Year 2-5 (2023-2025) cost: \$250,000 per year (750,000 Total)***

The total cost for the updated CIP plan is \$3,001,018.00. The breakdown of each CIP plan year can be found in **Appendix A.5**.

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- A.1      Pavement Condition Inventory (Streets - Alphabetical)**
  - A.2      Pavement Condition Inventory (OCI – Lowest to Highest)**
  - A.3      Cost Basis**
  - A.4      Roadway Condition Assessment Maps**
  - A.5      Recommendations**

## Appendix A.1

## Pavement Condition Inventory

## (Streets - Alphabetical)

Segment ID	Street Name	Street Ahead	Street Back	Pavement Type	Length	Width	Area (ft <sup>2</sup> )	Estimated OCI
SEG_000048	ADOBE DR	ROUNDUP DR	WEST AVE	Asphalt	1008.97 ft	30.00 ft	30269.19	95
SEG_000376	AMERSON LN	BLUET LN	JACKSON-KELLER RD	Asphalt	683.02 ft	30.00 ft	20490.62	61.75
SEG_000149	ANTLER DR	WOTTLIN RD	FLINTSTONE ST	Asphalt	412.50 ft	30.00 ft	12374.85	88
SEG_000150	ANTLER DR	HONEYSUCKLE LN	ATWATER DR	Asphalt	223.75 ft	30.00 ft	6712.51	88
SEG_000148	ANTLER DR	FLINTSTONE ST	JACKSON-KELLER RD	Asphalt	711.82 ft	30.00 ft	21354.55	88
SEG_000291	ANTLER DR	ATWATER DR	WOTTLIN RD	Asphalt	238.58 ft	30.00 ft	7157.34	88
SEG_000151	ANTLER DR	BUCKAROO DR	HONEYSUCKLE LN	Asphalt	901.77 ft	30.00 ft	27053.05	88
SEG_000222	ANTLER DR	BLANCO RD	BUCKAROO DR	Asphalt	1007.25 ft	30.00 ft	30217.62	100
SEG_000293	ATWATER DR	BUCKAROO DR	ANTLER DR	Asphalt	1317.36 ft	30.00 ft	39520.91	100
SEG_000223	ATWATER DR	BLANCO RD	BUCKAROO DR	Asphalt	1010.27 ft	30.00 ft	30308	64.66
SEG_000057	BANYAN DR	CAROLWOOD DR	GARDENVIEW DR	Asphalt	437.74 ft	30.00 ft	13132.31	100
SEG_000058	BANYAN DR	GLENTOWER DR	GARDENVIEW DR	Asphalt	393.81 ft	30.00 ft	11814.29	94
SEG_000060	BANYAN DR	NORTHCREST DR	BRIARCLIFF DR	Asphalt	395.10 ft	30.00 ft	11853.09	44.08
SEG_000051	BANYAN DR	BRIARCLIFF DR	TAMWORTH DR	Asphalt	392.52 ft	30.00 ft	11775.5	55.63
SEG_000059	BANYAN DR	TAMWORTH DR	GLENTOWER DR	Asphalt	400.87 ft	30.00 ft	12025.98	94
SEG_000056	BANYAN DR	PRINZ DR	CAROLWOOD DR	Asphalt	429.34 ft	30.00 ft	12880.18	83.64
SEG_000246	BILTMORE ST	END OF PAVEMENT	NW MILITARY HWY	Asphalt	497.75 ft	28.00 ft	13936.88	38.68
SEG_000215	BLUET LN	CUL DE SAC	AMERSON LN	Asphalt	258.49 ft	30.00 ft	7754.81	100
SEG_000289	BLUET LN	SHALIMAR DR	SHALIMAR DR	Asphalt	120.19 ft	30.00 ft	3605.71	100
SEG_000214	BLUET LN	AMERSON LN	SHALIMAR DR	Asphalt	125.63 ft	30.00 ft	3769.04	100
SEG_000213	BLUET LN	GLADIOLA LN	TRAVERTINE LN	Asphalt	1243.65 ft	30.00 ft	37309.62	38.55
SEG_000288	BLUET LN	SHALIMAR DR	TRAVERTINE LN	Asphalt	339.30 ft	30.00 ft	10179.05	100
SEG_000245	BRIARCLIFF DR	LOCKHILL-SELMA RD	BANYAN DR	Asphalt	1141.49 ft	30.00 ft	34244.83	47.18
SEG_000071	BRIARCLIFF DR	BANYAN DR	NW MILITARY HWY	Asphalt	860.61 ft	30.00 ft	25818.32	63.07
SEG_000225	BUCKAROO DR	ANTLER DR	ATWATER DR	Asphalt	384.25 ft	30.00 ft	11527.59	64.66
SEG_000224	BUCKAROO DR	ATWATER DR	HERWECK DR	Asphalt	381.00 ft	30.00 ft	11430.02	76.47
SEG_000152	BUCKAROO DR	END OF PAVEMENT	ANTLER DR	Asphalt	186.25 ft	30.00 ft	5587.54	81.65
SEG_000043	CALADIUM DR	E CASTLE LN	PERSIMMON DR	Asphalt	848.54 ft	30.00 ft	25456.26	100
SEG_000038	CALADIUM DR	NW MILITARY HWY	E CASTLE LN	Asphalt	515.69	30.00 ft	15470.77	100
SEG_000088	CALADIUM DR	PERSIMMON DR	KRAMERIA DR	Asphalt	902.12 ft	30.00 ft	27063.62	100
SEG_000062	CAROLWOOD DR	BANYAN DR	BANYAN DR	Asphalt	245.40 ft	30.00 ft	7362.09	100
SEG_000081	CAROLWOOD DR	BANYAN DR	NW MILITARY HWY	Asphalt	449.40 ft	30.00 ft	13481.92	55.97
SEG_000061	CAROLWOOD DR	LOCKHILL-SELMA RD	BANYAN DR	Asphalt	1319.87 ft	30.00 ft	39596.09	75.18

## Appendix A.1

## Pavement Condition Inventory

## (Streets - Alphabetical)

Segment ID	Street Name	Street Ahead	Street Back	Pavement Type	Length	Width	Area (ft <sup>2</sup> )	Estimated OCI
SEG_000209	CAS HILLS DR	LOU JON CIR	WICKFORD WAY	Asphalt	1206.26 ft	30.00 ft	36187.65	100
SEG_000211	CAS HILLS DR	BLANCO RD	VILLA ANN ST	Asphalt	231.03 ft	30.00 ft	6931.05	100
SEG_000210	CAS HILLS DR	VILLA ANN ST	WICKFORD WAY	Asphalt	454.24 ft	30.00 ft	13627.32	100
SEG_000075	CASTLE GARDENS DR	MARTHA GLYNN CT	WEST AVE	Asphalt	187.79 ft	30.00 ft	5633.75	100
SEG_000042	CASTLE GARDENS DR	MARTHA GLYNN CT	LA RUE ANN	Asphalt	446.50 ft	30.00 ft	13395.14	100
SEG_000049	CASTLE GARDENS DR	ELIZABETH ANN	LA RUE ANN	Asphalt	293.74 ft	30.00 ft	8812.23	100
SEG_000179	CASTLE LN E	ZORNIA DR	S MANTON LN	Asphalt	778.30 ft	30.00 ft	23349.14	88
SEG_000180	CASTLE LN E	CALADIUM DR	ZORNIA DR	Asphalt	576.15 ft	30.00 ft	17284.37	88
SEG_000270	CASTLE LN E	S MANTON LN	WEST AVE	Asphalt	1180.71 ft	30.00 ft	35421.21	88
SEG_000178	CASTLE LN W	WEST AVE	S WINSTON LN	Asphalt	1513.05 ft	30.00 ft	45391.57	88
SEG_000046	CASTLEOAKS DR	ROUNDUP DR	WEST AVE	Asphalt	428.48 ft	30.00 ft	12854.41	55.09
SEG_000238	CHATTINGTON CT	OAK ROYAL DR	SQUIRES ROW	Asphalt	1346.02 ft	30.00 ft	40380.48	87
SEG_000285	CHATTINGTON CT	CUL DE SAC	OAK ROYAL DR	Asphalt	764.27 ft	30.00 ft	22928.15	87
SEG_000276	COBBLESTONE CT	LOCHAVEN LN	SQUIRES ROW	Asphalt	825.92 ft	30.00 ft	24777.52	87
SEG_000067	COTILLION DR	SHALIMAR DR	JACKSON-KELLER RD	Asphalt	152.71 ft	30.00 ft	4581.18	42.64
SEG_000068	COTILLION DR	WOTTLIN RD	SHALIMAR DR	Asphalt	1050.10 ft	30.00 ft	31503.03	45.48
SEG_000208	DANDELION LN	TRAVERTINE LN	PHLOX LN	Asphalt	400.87 ft	30.00 ft	12026.14	27.89
SEG_000207	DANDELION LN	PHILOX LN	GLADIOLA LN	Asphalt	574.88 ft	30.00 ft	17246.29	54.85
SEG_000247	DANI LN	WEST AVE	CUL DE SAC	Asphalt	407.99 ft	30.00 ft	12239.82	100
SEG_000143	DANUBE DR	PARADE DR	JACKSON-KELLER RD	Asphalt	1512.61 ft	30.00 ft	45378.42	87
SEG_000144	DANUBE DR	RIVIERA DR	PARADE DR	Asphalt	471.80 ft	30.00 ft	14154.13	87
SEG_000145	DANUBE DR	HERWECK DR	RIVIERA DR	Asphalt	469.01 ft	30.00 ft	14070.29	87
SEG_000078	DOGWOOD LN	LOCKHILL-SELMA RD	NW MILITARY HWY	Asphalt	1783.75 ft	30.00 ft	53512.47	100
SEG_000054	ELIZABETH ANN CT	CASTLE GARDENS DR	CUL DE SAC	Asphalt	170.25 ft	30.00 ft	5107.4	100
SEG_000055	ELIZABETH ANN CT	CUL DE SAC	CASTLE GARDENS DR	Asphalt	108.77 ft	30.00 ft	3263.06	100
SEG_000155	FLINTSTONE CT	CUL DE SAC	FLINTSTONE ST	Asphalt	138.89 ft	30.00 ft	4166.6	100
SEG_000154	FLINTSTONE CT	FLINTSTONE ST	CUL DE SAC	Asphalt	140.69 ft	30.00 ft	4220.67	100
SEG_000153	FLINTSTONE ST	FLINTSTONE CT	ANTLER DR	Asphalt	395.34 ft	30.00 ft	11860.3	100
SEG_000360	FOX HALL CV	FOX HALL LN	FOX HALL LN	Asphalt	689.81 ft	30.00 ft	20694.27	95
SEG_000243	FOX HALL LN	FOX HALL CV	FOX HALL CV	Asphalt	266.70 ft	30.00 ft	8000.91	100
SEG_000255	FOX HALL LN	S WINSTON LN	HIBISCUS LN	Asphalt	1017.88 ft	30.00 ft	30536.28	73.33
SEG_000241	FOX HALL LN	S WINSTON LN	CUL DE SAC	Asphalt	307.53 ft	30.00 ft	9225.95	76.36
SEG_000244	FOX HALL LN	WEST AVE	FOX HALL CV	Asphalt	782.38 ft	30.00 ft	23471.48	78.98

## Appendix A.1

## Pavement Condition Inventory

## (Streets - Alphabetical)

Segment ID	Street Name	Street Ahead	Street Back	Pavement Type	Length	Width	Area (ft <sup>2</sup> )	Estimated OCI
SEG_000242	FOX HALL LN	HIBISCUS LN	FOX HALL CV	Asphalt	1536.66 ft	30.00 ft	46099.89	81.89
SEG_000082	GARDENVIEW DR	BANYAN DR	NW MILITARY HWY	Asphalt	322.13 ft	30.00 ft	9663.8	69
SEG_000123	GARDENVIEW DR	LOCKHILL-SELMA RD	BANYAN DR	Asphalt	1776.95 ft	30.00 ft	53308.41	68.2
SEG_000307	GARDENVIEW DR S	NW MILITARY HWY	ROLETO DR	Asphalt	951.26 ft	30.00 ft	28537.83	100
SEG_000136	GLADIOLA LN	PHLOX LN	JACKSON-KELLER RD	Asphalt	286.14 ft	30.00 ft	8584.1	87
SEG_000137	GLADIOLA LN	DANDELION LN	PHLOX LN	Asphalt	439.74 ft	30.00 ft	13192.2	87
SEG_000138	GLADIOLA LN	BLUET LN	DANDELION LN	Asphalt	200.78 ft	30.00 ft	6023.29	87
SEG_000156	GLADIOLA LN	TOWNE VUE DR	TRILLIUM LN	Asphalt	419.78 ft	30.00 ft	12593.34	87
SEG_000229	GLADIOLA LN	TRILLIUM LN	BLUET LN	Asphalt	387.10 ft	30.00 ft	11613.1	87
SEG_000275	GLADIOLA LN	NW LOOP 410 ACCESS RD	TOWNE VUE DR	Asphalt	227.37 ft	30.00 ft	6821.16	87
SEG_000093	GLENTOWER DR	LOCKHILL-SELMA RD	BANYAN DR	Asphalt	1776.41 ft	30.00 ft	53292.18	99.46
SEG_000124	GLENTOWER DR	BANYAN DR	NW MILITARY HWY	Asphalt	352.57 ft	30.00 ft	10577.03	99.46
SEG_000249	HALBART DR	NORTHCREST DR	NORTHCRESET DR	Asphalt	1503.32 ft	30.00 ft	45099.65	88
SEG_000221	HERWECK DR	BUCKAROO DR	DANUBE DR	Asphalt	561.03 ft	30.00 ft	16830.96	95
SEG_000220	HERWECK DR	WAYDELE CIR	JACKSON-KELLER RD	Asphalt	675.47 ft	30.00 ft	20264.21	77.63
SEG_000147	HERWECK DR	BLANCO RD	BUCKAROO DR	Asphalt	1012.00 ft	30.00 ft	30360.12	96.5
SEG_000294	HERWECK DR	DANUBE DR	WAYDELE CIR	Asphalt	473.54 ft	30.00 ft	14206.33	48.25
SEG_000256	HIBISCUS LN	FOX HALL LN	END OF PAVEMENT	Asphalt	870.82 ft	30.00 ft	26124.49	88.05
SEG_000181	HIBISCUS LN	WEST AVE	FOXHALL LN	Asphalt	885.84 ft	30.00 ft	26575.23	90.48
SEG_000292	HONEYSUCKLE LN	ALLEY	ANTLER DR	Asphalt	352.75 ft	30.00 ft	10582.41	87
SEG_000326	HONEYSUCKLE LN	LEMONWOOD DR	NW LOOP 410 ACCESS RD	Asphalt	775.92 ft	30.00 ft	23277.57	100
SEG_000226	HONEYSUCKLE LN	LOU JON CIR	TOWNE VUE DR	Asphalt	442.59 ft	30.00 ft	13277.6	87
SEG_000227	HONEYSUCKLE LN	TOWNE VUE DR	TOWNE VUE CIR	Asphalt	675.05 ft	30.00 ft	20251.42	87
SEG_000228	HONEYSUCKLE LN	TOWNE VUE CIR	SIR ARTHUR CT	Asphalt	793.92 ft	30.00 ft	23817.48	87
SEG_000327	HONEYSUCKLE LN	NW LOOP 410 ACCESS RD	SIR ARTHUR CT	Asphalt	1313.23 ft	30.00 ft	39396.9	87
SEG_000230	IRONGATE RD	CUL DE SAC	SIR ARTHUR CT	Asphalt	432.82 ft	30.00 ft	12984.54	95
SEG_000160	IRONGATE RD	SIR ARTHUR CT	WICKFORD WAY	Asphalt	376.31 ft	30.00 ft	11289.2	95
SEG_000273	IVYWOOD CIR	NW LOOP 410 ACCESS RD	NW LOOP 410 ACCESS RD	Asphalt	706.48 ft	30.00 ft	21194.29	72.07
SEG_000087	KRAMERIA DR	ZORNIA DR	CALADIUM DR	Asphalt	563.35 ft	30.00 ft	16900.38	88
SEG_000122	KRAMERIA DR	ZORNIA DR	WEST AVE	Asphalt	742.59 ft	30.00 ft	22277.55	88
SEG_000262	KRAMERIA DR	LEMONWOOD DR	CALADIUM DR	Asphalt	643.70 ft	30.00 ft	19311	88
SEG_000053	LA RUE ANN CT	CASTLE GARDENS DR	CUL DE SAC	Asphalt	163.41 ft	30.00 ft	4902.16	100
SEG_000052	LA RUE ANN CT	CUL DE SAC	CASTLE GARDENS DR	Asphalt	118.58 ft	30.00 ft	3557.41	100
SEG_000263	LEMONWOOD DR	HONEYSUCKLE LN	KRAMERIA DR	Asphalt	341.56 ft	30.00 ft	10246.76	100

## Appendix A.1

## Pavement Condition Inventory

## (Streets - Alphabetical)

Segment ID	Street Name	Street Ahead	Street Back	Pavement Type	Length	Width	Area (ft <sup>2</sup> )	Estimated OCI
SEG_000039	LEMONWOOD DR	NW MILITARY HWY	ROLETO DR	Asphalt	872.34	30.00 ft	26170.21	49.75
SEG_000257	LEMONWOOD DR	PERSIMMON DR	HONEYSUCKLE LN	Asphalt	560.65 ft	30.00 ft	16819.49	100
SEG_000258	LEMONWOOD DR	ROLETO DR	PERSIMMON DR	Asphalt	314.44 ft	30.00 ft	9433.18	100
SEG_000271	LEMONWOOD DR	ROLETO DR	ROLETO DR	Asphalt	129.73 ft	30.00 ft	3891.79	100
SEG_000172	LOCHAVEN LN	CUL DE SAC	WICKFORD WAY	Asphalt	560.98 ft	30.00 ft	16829.43	87
SEG_000234	LOCHAVEN LN	COBBLESTONE CT	SQUIRES ROW	Asphalt	503.11 ft	30.00 ft	15093.33	87
SEG_000171	LOCHAVEN LN	WICKFORD WAY	COBBLESTONE CT	Asphalt	562.51 ft	30.00 ft	16875.21	87
SEG_000212	LOU JON CIR	CAS HILLS DR	HONEYSUCKLE LN	Asphalt	266.42 ft	30.00 ft	7992.69	95
SEG_000129	LOU JON CIR	WICKFORD WAY	CAS HILLS DR	Asphalt	1305.05 ft	30.00 ft	39151.59	100
SEG_000372	LOU JON CIR	LOU JON CIR	CAS HILLS DR	Asphalt	719.35 ft	30.00 ft	21580.5	100
SEG_000394	LUNDBLADE LN	LUNDBLADE LN	LUNDBLADE LN	Asphalt	899.53 ft	30.00 ft	26986	41.74
SEG_000077	MANTON LN N	LOCKHILL-SELMA RD	NW MILITARY HWY	Asphalt	1376.67 ft	30.00 ft	41300.24	61.04
SEG_000199	MANTON LN S	NW MILITARY HWY	E CASTLE LN	Asphalt	638.38 ft	30.00 ft	19151.43	59.18
SEG_000261	MANTON LN S	WISTERIA DR	MIMOSA DR	Asphalt	428.25 ft	30.00 ft	12847.43	60.68
SEG_000118	MANTON LN S	E CASTLE LN	WISTERIA DR	Asphalt	726.42 ft	30.00 ft	21792.7	66.46
SEG_000076	MARTHA GLYNN CT	CASTLE GARDENS DR	CUL DE SAC	Asphalt	100.36 ft	30.00 ft	3010.91	100
SEG_000121	MIMOSA DR	S MANTON LN	ZORNIA DR	Asphalt	795.02 ft	30.00 ft	23850.71	89
SEG_000280	MIMOSA DR	MIMOSA DR	WEST AVE	Asphalt	470.16 ft	30.00 ft	14104.85	89
SEG_000265	MOSS DR	LOCKHILL-SELMA RD	NW MILITARY HWY	Asphalt	1652.90 ft	30.00 ft	49586.92	69.27
SEG_000072	NORTHCREST DR	HALBART DR	NW MILITARY HWY	Asphalt	375.93 ft	30.00 ft	11277.99	68.5
SEG_000073	NORTHCREST DR	BANYAN DR	HALBART DR	Asphalt	292.87 ft	30.00 ft	8786.1	88
SEG_000074	NORTHCREST DR	HALBART DR	BANYAN DR	Asphalt	616.01 ft	30.00 ft	18480.23	88
SEG_000248	NORTHCREST DR	LOCKHILL-SELMA RD	HALBART DR	Asphalt	517.70 ft	30.00 ft	15531.11	88
SEG_000278	OAK ROYAL DR	SIR ARTHUR CT	WICKFORD WAY	Asphalt	384.22 ft	30.00 ft	11526.48	87
SEG_000284	OAK ROYAL DR	SHEFFIELD PL	SIR ARTHUR CT	Asphalt	423.18 ft	30.00 ft	12695.3	87
SEG_000175	OAK ROYAL DR	CHATTINGTON CT	SHEFFIELD PL	Asphalt	384.63 ft	30.00 ft	11538.87	87
SEG_000176	OAK ROYAL DR	NW LOOP 410 ACCESS RD	CHATTINGTON CT	Asphalt	249.46 ft	30.00 ft	7483.82	87
SEG_000146	PARADE DR	BLANCO RD	DANUBE DR	Asphalt	1016.76 ft	30.00 ft	30502.84	46.92
SEG_000095	PEG SUE CT	LOCKHILL-SELMA RD	CUL DE SAC	Asphalt	132.13 ft	30.00 ft	3963.78	46.56
SEG_000385	PERSIMMON DR	LEMONWOOD DR	CALADIUM DR	Asphalt	640.59 ft	30.00 ft	19217.71	32.39
SEG_000125	PHLOX LN	DANDELION LN	GLADIOLA LN	Asphalt	404.19 ft	30.00 ft	12125.62	46.85
SEG_000079	PRINZ DR	BANYAN DR	NW MILITARY HWY	Asphalt	770.10 ft	30.00 ft	23102.95	100
SEG_000080	PRINZ DR	LOCKHILL-SELMA RD	BANYAN DR	Asphalt	1142.77 ft	30.00 ft	34283.25	100
SEG_000047	RANCHLAND DR	ROUNDUP DR	WEST AVE	Asphalt	685.69 ft	30.00 ft	20570.81	59.81
SEG_000218	RIVIERA DR	BLANCO RD	DANUBE DR	Asphalt	1296.26 ft	30.00 ft	38887.74	100

## Appendix A.1

## Pavement Condition Inventory

## (Streets - Alphabetical)

Segment ID	Street Name	Street Ahead	Street Back	Pavement Type	Length	Width	Area (ft <sup>2</sup> )	Estimated OCI
SEG_000041	ROLETO DR	S GARDENVIEW DR	NW LOOP 410 ACCESS RD	Asphalt	601.17 ft	30.00 ft	18035.15	39.02
SEG_000272	ROLETO DR	NW MILITARY HWY	LEMONWOOD DR	Asphalt	1169.84 ft	30.00 ft	35095.1	100
SEG_000040	ROLETO DR	LEMONWOOD DR	S GARDENVIEW DR	Asphalt	480.19 ft	30.00 ft	14405.71	42.29
SEG_000279	ROUNDUP DR	END OF PAVEMENT	ADOBE DR	Asphalt	233.14 ft	30.00 ft	6994.09	100
SEG_000045	ROUNDUP DR	RANCHLAND DR	ADOBE DR	Asphalt	460.24 ft	30.00 ft	13807.34	51.36
SEG_000287	ROUNDUP DR	RANCHLAND DR	CASTLEOAKS DR	Asphalt	459.36 ft	30.00 ft	13780.7	89.59
SEG_000044	ROUNDUP DR	WEST AVE	CASTLEOAKS DR	Asphalt	557.57 ft	30.00 ft	16727.07	90.19
SEG_000290	SHALIMAR DR	BLUET LN	COTILLION DR	Asphalt	2225.78 ft	30.00 ft	66773.48	35.39
SEG_000216	SHALIMAR DR	BLUET LN	JACKSON-KELLER RD	Asphalt	625.67 ft	30.00 ft	18770.04	100
SEG_000286	SHEFFIELD PL	CUL DE SAC	OAK ROYAL DR	Asphalt	1026.94 ft	30.00 ft	30808.25	89
SEG_000237	SHEFFIELD PL	OAK ROYAL DR	SQUIRES ROW	Asphalt	1036.93 ft	30.00 ft	31107.95	89
SEG_000158	SIR ARTHUR CT	SQUIRES ROW	HONEYSUCKLE LN	Asphalt	414.58 ft	30.00 ft	12437.42	51.5
SEG_000159	SIR ARTHUR CT	IRONGATE RD	OAK ROYAL DR	Asphalt	873.82 ft	30.00 ft	26214.59	89
SEG_000277	SIR ARTHUR CT	OAK ROYAL DR	SQUIRES ROW	Asphalt	805.80 ft	30.00 ft	24173.87	89
SEG_000231	SQUIRES ROW	SIR ARTHUR CT	SHEFFIELD PL	Asphalt	360.50 ft	30.00 ft	14420.13	89
SEG_000131	SQUIRES ROW	CHATTINGTON CT	SHEFFIELD PL	Asphalt	419.31 ft	30.00 ft	16772.37	89
SEG_000298	SQUIRES ROW	SIR ARTHUR CT	WICKFORD WAY	Asphalt	490.62 ft	30.00 ft	19624.7	89
SEG_000130	SQUIRES ROW	NW LOOP 410 ACCESS RD	CHATTINGTON CT	Asphalt	398.23 ft	30.00 ft	15929.3	89
SEG_000233	SQUIRES ROW	LOCHAVEN LN	COBBLESTONE CT	Asphalt	515.22 ft	30.00 ft	20608.9	89
SEG_000232	SQUIRES ROW	COBBLESTONE CT	WICKFORD WAY	Asphalt	477.41 ft	30.00 ft	19096.45	89
SEG_000264	SUNFLOWER LN	LOCKHILL-SELMA RD	NW MILITARY HWY	Asphalt	1507.49 ft	30.00 ft	45224.57	65.78
SEG_000070	TAMWORTH DR	BANYAN DR	BANYAN DR	Asphalt	639.32 ft	30.00 ft	19179.56	100
SEG_000094	TAMWORTH DR	BANYAN DR	NW MILITARY HWY	Asphalt	317.65 ft	30.00 ft	9529.59	100
SEG_000268	TAMWORTH DR	LOCKHILL-SELMA RD	BANYAN DR	Asphalt	1136.83 ft	30.00 ft	34104.94	100
SEG_000128	THAMES DR	BLANCO RD	LUNDBLADE LN	Asphalt	374.72 ft	30.00 ft	11241.7	61.71
SEG_000134	TOWNE VUE ST	HONEYSUCKLE LN	TOWNE VUE DR	Asphalt	406.61 ft	30.00 ft	12198.2	65.86
SEG_000274	TOWNE VUE DR	TOWNE VUE ST	WOTTLIN RD	Asphalt	674.52 ft	30.00 ft	20235.7	61.83
SEG_000133	TOWNE VUE DR	TRAVERTINE LN	TOWNE VUE ST	Asphalt	481.41 ft	30.00 ft	14442.16	61.96
SEG_000132	TOWNE VUE DR	HONEYSUCKLE LN	WOTTLIN RD	Asphalt	308.67 ft	30.00 ft	9260.15	69.53
SEG_000259	TOWNE VUE DR	TRAVERTINE LN	GLADIOLA LN	Asphalt	1898.79 ft	30.00 ft	56963.8	70.11
SEG_000260	TRAVERTINE LN	DANDELION LN	JACKSON-KELLER RD	Asphalt	489.03 ft	30.00 ft	14671.04	100
SEG_000157	TRAVERTINE LN	BLUET LN	DANDELION LN	Asphalt	345.55 ft	30.00 ft	10366.45	100
SEG_000203	TRAVERTINE LN	TWINLEAF LN	TRILLIUM LN	Asphalt	343.63 ft	30.00 ft	10308.94	100
SEG_000204	TRAVERTINE LN	TRILLIUM LN	BLUET LN	Asphalt	349.81 ft	30.00 ft	10494.39	100
SEG_000206	TRAVERTINE LN	TOWNE VUE DR	TWINLEAF LN	Asphalt	346.45 ft	30.00 ft	10393.64	55.57

Segment ID	Street Name	Street Ahead	Street Back	Pavement Type	Length	Width	Area (ft <sup>2</sup> )	Estimated OCI
SEG_000126	TRILLIUM LN	GLADIOLA LN	TRAVERTINE LN	Asphalt	1419.16 ft	30.00 ft	42574.81	100
SEG_000283	VILLA ANN ST	CUL DE SAC	CAS HILLS DR	Asphalt	452.97 ft	30.00 ft	13588.95	68.5
SEG_000253	VUEWOOD ST	WEST AVE	CUL DE SAC	Asphalt	263.28 ft	30.00 ft	7898.25	100
SEG_000219	WAYDELE CIR	CUL DE SAC	HERWECK DR	Asphalt	556.42 ft	30.00 ft	16692.52	100
SEG_000025	WEST AVE	NW LOOP 410 ACCESS RD	JACKSON-KELLER RD	Asphalt	687.51	70.00 ft	48125.86	95
SEG_000140	WEST AVE	CASTLEOAKS DR	RANCHLAND DR	Asphalt	585.50 ft	70.00 ft	40985.03	51.53
SEG_000361	WEST AVE	NW LOOP 410 ACCESS RD	NW LOOP 410 ACCESS RD	Asphalt	266.50 ft	70.00 ft	18655.12	56.74
SEG_000028	WEST AVE	ADOBE DR	NW LOOP 410 ACCESS RD	Asphalt	412.01	70.00 ft	28840.54	57.18
SEG_000197	WEST AVE	RANCHLAND DR	ADOBE DR	Asphalt	563.25 ft	70.00 ft	39427.49	59.82
SEG_000090	WEST AVE	FOX HALL LN	ROUNDUP DR	Asphalt	207.00 ft	70.00 ft	14490.26	62.28
SEG_000141	WEST AVE	ROUNDUP DR	CASTLEOAKS DR	Asphalt	593.00 ft	70.00 ft	41510.01	62.34
SEG_000250	WEST AVE	WISTERIA DR	MIMOSA DR	Asphalt	499.01 ft	70.00 ft	34930.35	63.85
SEG_000254	WEST AVE	KRAMERIA DR	FOX HALL LN	Asphalt	348.76 ft	70.00 ft	24412.95	65.07
SEG_000091	WEST AVE	HIBISCUS LN	WISTERIA DR	Asphalt	531.19 ft	70.00 ft	37183.29	65.23
SEG_000251	WEST AVE	MIMOSA DR	KRAMERIA DR	Asphalt	533.03 ft	70.00 ft	37312.28	65.67
SEG_000092	WEST AVE	W CASTLE LN	HIBISCUS LN	Asphalt	685.69 ft	70.00 ft	47998.35	65.82
SEG_000142	WEST AVE	NW MILITARY HWY	DANI LN	Asphalt	528.47 ft	70.00 ft	36993.03	66.65
SEG_000269	WEST AVE	DANI LN	W CASTLE LN	Asphalt	414.63 ft	70.00 ft	29023.92	66.84
SEG_000169	WEST AVE	CASTLE GARDENS DR	NW MILITARY HWY	Asphalt	517.19 ft	70.00 ft	36203.02	74.03
SEG_000217	WEST AVE	LOCKHILL-SELMA RD	SLIMP	Asphalt	397.77 ft	70.00 ft	27844.18	79.14
SEG_000170	WEST AVE	SLIMP	CASTLE GARDENS DR	Asphalt	145.45 ft	70.00 ft	10181.63	82.12
SEG_000236	WICKFORD WAY	OAK ROYAL DR	SQUIRES ROW	Asphalt	524.02 ft	30.00 ft	20960.63	95.65
SEG_000235	WICKFORD WAY	IRONGATE RD	OAK ROYAL DR	Asphalt	582.47 ft	30.00 ft	23298.6	95.65
SEG_000174	WICKFORD WAY	LOCHAVEN LN	IRONGATE RD	Asphalt	413.32 ft	30.00 ft	16532.98	95.65
SEG_000173	WICKFORD WAY	LOCHAVEN LN	LOU JON CIR	Asphalt	480.80 ft	30.00 ft	19231.86	95.65
SEG_000182	WINSTON LN N	LOCKHILL-SELMA RD	NW MILITARY HWY	Asphalt	664.83 ft	30.00 ft	19944.97	52.5
SEG_000239	WINSTON LN S	NW MILITARY HWY	W CASTLE LN	Asphalt	1358.30 ft	30.00 ft	40748.95	27.38
SEG_000240	WINSTON LN S	W CASTLE LN	FOX HALL LN	Asphalt	985.13 ft	30.00 ft	29553.87	56.37
SEG_000120	WISTERIA DR	S MANTON LN	ZORNIA DR	Asphalt	821.88 ft	30.00 ft	24656.27	63.17
SEG_000119	WISTERIA DR	S MANTON LN	WEST AVE	Asphalt	928.70 ft	30.00 ft	27860.95	67.86
SEG_000089	WOTTLIN RD	TOWNE VUE DR	COTILLION DR	Asphalt	414.08 ft	30.00 ft	12422.4	31.16
SEG_000069	WOTTLIN RD	ANTLER DR	COTILLION DR	Asphalt	234.90 ft	30.00 ft	7047.03	33.42
SEG_000203	ZORNIA DR	MIMOSA DR	KRAMERIA DR	Asphalt	483.00 ft	30.00 ft	14490	85.9
SEG_000201	ZORNIA DR	E CASTLE LN	WISTERIA DR	Asphalt	483.00 ft	30.00 ft	14490	85.9
SEG_000200	ZORNIA DR	NW MILITARY HWY	E CASTLE LN	Asphalt	415.18 ft	30.00 ft	12455.34	87.5

## Appendix A.1

## Pavement Condition Inventory

## (Streets - Alphabetical)

Segment ID	Street Name	Street Ahead	Street Back	Pavement Type	Length	Width	Area (ft <sup>2</sup> )	Estimated OCI
SEG_000202	ZORNIA DR	WISTERIA DR	MIMOSA DR	Asphalt	415.18 ft	30.00 ft	12455.34	87.5
SEG_000127	TWINLEAF LN	GLADIOLA LN	TRAVERTEINE LN	Asphalt	1592.91 ft	30.00 ft	47787.3	88

## Appendix A.2

## Pavement Condition Inventory

(Streets - PCI - Low to High)

Segment ID	Street Name	Street Ahead	Street Back	Pavement Type	Length	Width	Area (ft <sup>2</sup> )	Estimated OCI
SEG_000239	WINSTON LN S	NW MILITARY HWY	W CASTLE LN	Asphalt	1358.30 ft	30.00 ft	40748.95	27.38
SEG_000208	DANDELION LN	TRAVERTINE LN	PHLOX LN	Asphalt	400.87 ft	30.00 ft	12026.14	27.89
SEG_000089	WOTTLIN RD	TOWNE VUE DR	COTILLION DR	Asphalt	414.08 ft	30.00 ft	12422.4	31.16
SEG_000385	PERSIMMON DR	LEMONWOOD DR	CALADIUM DR	Asphalt	640.59 ft	30.00 ft	19217.71	32.39
SEG_000069	WOTTLIN RD	ANTLER DR	COTILLION DR	Asphalt	234.90 ft	30.00 ft	7047.03	33.42
SEG_000290	SHALIMAR DR	BLUET LN	COTILLION DR	Asphalt	2225.78 ft	30.00 ft	66773.48	35.39
SEG_000213	BLUET LN	GLADIOLA LN	TRAVERTINE LN	Asphalt	1243.65 ft	30.00 ft	37309.62	38.55
SEG_000246	BILTMORE ST	END OF PAVEMENT	NW MILITARY HWY	Asphalt	497.75 ft	28.00 ft	13936.88	38.68
SEG_000041	ROLETO DR	S GARDENVIEW DR	NW LOOP 410 ACCESS RD	Asphalt	601.17 ft	30.00 ft	18035.15	39.02
SEG_000394	LUNDBLADE LN	LUNDBLADE LN	LUNDBLADE LN	Asphalt	899.53 ft	30.00 ft	26986	41.74
SEG_000040	ROLETO DR	LEMONWOOD DR	S GARDENVIEW DR	Asphalt	480.19 ft	30.00 ft	14405.71	42.29
SEG_000067	COTILLION DR	SHALIMAR DR	JACKSON-KELLER RD	Asphalt	152.71 ft	30.00 ft	4581.18	42.64
SEG_000060	BANYAN DR	NORTHCREST DR	BRIARCLIFF DR	Asphalt	395.10 ft	30.00 ft	11853.09	44.08
SEG_000068	COTILLION DR	WOTTLIN RD	SHALIMAR DR	Asphalt	1050.10 ft	30.00 ft	31503.03	45.48
SEG_000095	PEG SUE CT	LOCKHILL-SELMA RD	CUL DE SAC	Asphalt	132.13 ft	30.00 ft	3963.78	46.56
SEG_000125	PHLOX LN	DANDELION LN	GLADIOLA LN	Asphalt	404.19 ft	30.00 ft	12125.62	46.85
SEG_000146	PARADE DR	BLANCO RD	DANUBE DR	Asphalt	1016.76 ft	30.00 ft	30502.84	46.92
SEG_000245	BRIARCLIFF DR	LOCKHILL-SELMA RD	BANYAN DR	Asphalt	1141.49 ft	30.00 ft	34244.83	47.18
SEG_000294	HERWECK DR	DANUBE DR	WAYDELE CIR	Asphalt	473.54 ft	30.00 ft	14206.33	48.25
SEG_000039	LEMONWOOD DR	NW MILITARY HWY	ROLETO DR	Asphalt	872.34	30.00 ft	26170.21	49.75
SEG_000045	ROUNDUP DR	RANCHLAND DR	ADOBE DR	Asphalt	460.24 ft	30.00 ft	13807.34	51.36
SEG_000158	SIR ARTHUR CT	SQUIRES ROW	HONEYSUCKLE LN	Asphalt	414.58 ft	30.00 ft	12437.42	51.5
SEG_000140	WEST AVE	CASTLEOAKS DR	RANCHLAND DR	Asphalt	585.50 ft	70.00 ft	40985.03	51.53
SEG_000182	WINSTON LN N	LOCKHILL-SELMA RD	NW MILITARY HWY	Asphalt	664.83 ft	30.00 ft	19944.97	52.5
SEG_000207	DANDELION LN	PHLOX LN	GLADIOLA LN	Asphalt	574.88 ft	30.00 ft	17246.29	54.85
SEG_000046	CASTLEOAKS DR	ROUNDUP DR	WEST AVE	Asphalt	428.48 ft	30.00 ft	12854.41	55.09
SEG_000206	TRAVERTINE LN	TOWNE VUE DR	TWINLEAF LN	Asphalt	346.45 ft	30.00 ft	10393.64	55.57
SEG_000051	BANYAN DR	BRIARCLIFF DR	TAMWORTH DR	Asphalt	392.52 ft	30.00 ft	11775.5	55.63
SEG_000081	CAROLWOOD DR	BANYAN DR	NW MILITARY HWY	Asphalt	449.40 ft	30.00 ft	13481.92	55.97
SEG_000240	WINSTON LN S	W CASTLE LN	FOX HALL LN	Asphalt	985.13 ft	30.00 ft	29553.87	56.37
SEG_000361	WEST AVE	NW LOOP 410 ACCESS RD	NW LOOP 410 ACCESS RD	Asphalt	266.50 ft	70.00 ft	18655.12	56.74
SEG_000028	WEST AVE	ADOBE DR	NW LOOP 410 ACCESS RD	Asphalt	412.01	70.00 ft	28840.54	57.18
SEG_000199	MANTON LN S	NW MILITARY HWY	E CASTLE LN	Asphalt	638.38 ft	30.00 ft	19151.43	59.18

## Appendix A.2

## Pavement Condition Inventory

(Streets - PCI - Low to High)

Segment ID	Street Name	Street Ahead	Street Back	Pavement Type	Length	Width	Area (ft <sup>2</sup> )	Estimated OCI
SEG_000047	RANCHLAND DR	ROUNDUP DR	WEST AVE	Asphalt	685.69 ft	30.00 ft	20570.81	59.81
SEG_000197	WEST AVE	RANCHLAND DR	ADOBE DR	Asphalt	563.25 ft	70.00 ft	39427.49	59.82
SEG_000261	MANTON LN S	WISTERIA DR	MIMOSA DR	Asphalt	428.25 ft	30.00 ft	12847.43	60.68
SEG_000077	MANTON LN N	LOCKHILL-SELMA RD	NW MILITARY HWY	Asphalt	1376.67 ft	30.00 ft	41300.24	61.04
SEG_000128	THAMES DR	BLANCO RD	LUNDBLADE LN	Asphalt	374.72 ft	30.00 ft	11241.7	61.71
SEG_000376	AMERSON LN	BLUET LN	JACKSON-KELLER RD	Asphalt	683.02 ft	30.00 ft	20490.62	61.75
SEG_000274	TOWNE VUE DR	TOWNE VUE ST	WOTTLIN RD	Asphalt	674.52 ft	30.00 ft	20235.7	61.83
SEG_000133	TOWNE VUE DR	TRAVERTINE LN	TOWNE VUE ST	Asphalt	481.41 ft	30.00 ft	14442.16	61.96
SEG_000090	WEST AVE	FOX HALL LN	ROUNDUP DR	Asphalt	207.00 ft	70.00 ft	14490.26	62.28
SEG_000141	WEST AVE	ROUNDUP DR	CASTLEOAKS DR	Asphalt	593.00 ft	70.00 ft	41510.01	62.34
SEG_000071	BRIARCLIFF DR	BANYAN DR	NW MILITARY HWY	Asphalt	860.61 ft	30.00 ft	25818.32	63.07
SEG_000120	WISTERIA DR	S MANTON LN	ZORNIA DR	Asphalt	821.88 ft	30.00 ft	24656.27	63.17
SEG_000250	WEST AVE	WISTERIA DR	MIMOSA DR	Asphalt	499.01 ft	70.00 ft	34930.35	63.85
SEG_000223	ATWATER DR	BLANCO RD	BUCKAROO DR	Asphalt	1010.27 ft	30.00 ft	30308	64.66
SEG_000225	BUCKAROO DR	ANTLER DR	ATWATER DR	Asphalt	384.25 ft	30.00 ft	11527.59	64.66
SEG_000254	WEST AVE	KRAMERIA DR	FOX HALL LN	Asphalt	348.76 ft	70.00 ft	24412.95	65.07
SEG_000091	WEST AVE	HIBISCUS LN	WISTERIA DR	Asphalt	531.19 ft	70.00 ft	37183.29	65.23
SEG_000251	WEST AVE	MIMOSA DR	KRAMERIA DR	Asphalt	533.03 ft	70.00 ft	37312.28	65.67
SEG_000264	SUNFLOWER LN	LOCKHILL-SELMA RD	NW MILITARY HWY	Asphalt	1507.49 ft	30.00 ft	45224.57	65.78
SEG_000092	WEST AVE	W CASTLE LN	HIBISCUS LN	Asphalt	685.69 ft	70.00 ft	47998.35	65.82
SEG_000134	TOWNE VUE ST	HONEYSUCKLE LN	TOWNE VUE DR	Asphalt	406.61 ft	30.00 ft	12198.2	65.86
SEG_000118	MANTON LN S	E CASTLE LN	WISTERIA DR	Asphalt	726.42 ft	30.00 ft	21792.7	66.46
SEG_000142	WEST AVE	NW MILITARY HWY	DANI LN	Asphalt	528.47 ft	70.00 ft	36993.03	66.65
SEG_000269	WEST AVE	DANI LN	W CASTLE LN	Asphalt	414.63 ft	70.00 ft	29023.92	66.84
SEG_000119	WISTERIA DR	S MANTON LN	WEST AVE	Asphalt	928.70 ft	30.00 ft	27860.95	67.86
SEG_000123	GARDENVIEW DR	LOCKHILL-SELMA RD	BANYAN DR	Asphalt	1776.95 ft	30.00 ft	53308.41	68.2
SEG_000072	NORTHCREST DR	HALBART DR	NW MILITARY HWY	Asphalt	375.93 ft	30.00 ft	11277.99	68.5
SEG_000283	VILLA ANN ST	CUL DE SAC	CAS HILLS DR	Asphalt	452.97 ft	30.00 ft	13588.95	68.5
SEG_000082	GARDENVIEW DR	BANYAN DR	NW MILITARY HWY	Asphalt	322.13 ft	30.00 ft	9663.8	69
SEG_000265	MOSS DR	LOCKHILL-SELMA RD	NW MILITARY HWY	Asphalt	1652.90 ft	30.00 ft	49586.92	69.27
SEG_000132	TOWNE VUE DR	HONEYSUCKLE LN	WOTTLIN RD	Asphalt	308.67 ft	30.00 ft	9260.15	69.53
SEG_000259	TOWNE VUE DR	TRAVERTINE LN	GLADIOLA LN	Asphalt	1898.79 ft	30.00 ft	56963.8	70.11
SEG_000273	IVYWOOD CIR	NW LOOP 410 ACCESS RD	NW LOOP 410 ACCESS RD	Asphalt	706.48 ft	30.00 ft	21194.29	72.07

## Appendix A.2

## Pavement Condition Inventory

(Streets - PCI - Low to High)

Segment ID	Street Name	Street Ahead	Street Back	Pavement Type	Length	Width	Area (ft <sup>2</sup> )	Estimated OCI
SEG_000255	FOX HALL LN	S WINSTON LN	HIBISCUS LN	Asphalt	1017.88 ft	30.00 ft	30536.28	73.33
SEG_000169	WEST AVE	CASTLE GARDENS DR	NW MILITARY HWY	Asphalt	517.19 ft	70.00 ft	36203.02	74.03
SEG_000061	CAROLWOOD DR	LOCKHILL-SELMA RD	BANYAN DR	Asphalt	1319.87 ft	30.00 ft	39596.09	75.18
SEG_000241	FOX HALL LN	S WINSTON LN	CUL DE SAC	Asphalt	307.53 ft	30.00 ft	9225.95	76.36
SEG_000224	BUCKAROO DR	ATWATER DR	HERWECK DR	Asphalt	381.00 ft	30.00 ft	11430.02	76.47
SEG_000220	HERWECK DR	WAYDELE CIR	JACKSON-KELLER RD	Asphalt	675.47 ft	30.00 ft	20264.21	77.63
SEG_000244	FOX HALL LN	WEST AVE	FOX HALL CV	Asphalt	782.38 ft	30.00 ft	23471.48	78.98
SEG_000217	WEST AVE	LOCKHILL-SELMA RD	SLIMP	Asphalt	397.77 ft	70.00 ft	27844.18	79.14
SEG_000152	BUCKAROO DR	END OF PAVEMENT	ANTLER DR	Asphalt	186.25 ft	30.00 ft	5587.54	81.65
SEG_000242	FOX HALL LN	HIBISCUS LN	FOX HALL CV	Asphalt	1536.66 ft	30.00 ft	46099.89	81.89
SEG_000170	WEST AVE	SLIMP	CASTLE GARDENS DR	Asphalt	145.45 ft	70.00 ft	10181.63	82.12
SEG_000056	BANYAN DR	PRINZ DR	CAROLWOOD DR	Asphalt	429.34 ft	30.00 ft	12880.18	83.64
SEG_000203	ZORNIA DR	MIMOSA DR	KRAMERIA DR	Asphalt	483.00 ft	30.00 ft	14490	85.9
SEG_000201	ZORNIA DR	E CASTLE LN	WISTERIA DR	Asphalt	483.00 ft	30.00 ft	14490	85.9
SEG_000238	CHATTINGTON CT	OAK ROYAL DR	SQUIRES ROW	Asphalt	1346.02 ft	30.00 ft	40380.48	87
SEG_000285	CHATTINGTON CT	CUL DE SAC	OAK ROYAL DR	Asphalt	764.27 ft	30.00 ft	22928.15	87
SEG_000276	COBBLESTONE CT	LOCHAVEN LN	SQUIRES ROW	Asphalt	825.92 ft	30.00 ft	24777.52	87
SEG_000143	DANUBE DR	PARADE DR	JACKSON-KELLER RD	Asphalt	1512.61 ft	30.00 ft	45378.42	87
SEG_000144	DANUBE DR	RIVIERA DR	PARADE DR	Asphalt	471.80 ft	30.00 ft	14154.13	87
SEG_000145	DANUBE DR	HERWECK DR	RIVIERA DR	Asphalt	469.01 ft	30.00 ft	14070.29	87
SEG_000136	GLADIOLA LN	PHLOX LN	JACKSON-KELLER RD	Asphalt	286.14 ft	30.00 ft	8584.1	87
SEG_000137	GLADIOLA LN	DANDELION LN	PHLOX LN	Asphalt	439.74 ft	30.00 ft	13192.2	87
SEG_000138	GLADIOLA LN	BLUET LN	DANDELION LN	Asphalt	200.78 ft	30.00 ft	6023.29	87
SEG_000156	GLADIOLA LN	TOWNE VUE DR	TRILLIUM LN	Asphalt	419.78 ft	30.00 ft	12593.34	87
SEG_000229	GLADIOLA LN	TRILLIUM LN	BLUET LN	Asphalt	387.10 ft	30.00 ft	11613.1	87
SEG_000275	GLADIOLA LN	NW LOOP 410 ACCESS RD	TOWNE VUE DR	Asphalt	227.37 ft	30.00 ft	6821.16	87
SEG_000292	HONEYSUCKLE LN	ALLEY	ANTLER DR	Asphalt	352.75 ft	30.00 ft	10582.41	87
SEG_000226	HONEYSUCKLE LN	LOU JON CIR	TOWNE VUE DR	Asphalt	442.59 ft	30.00 ft	13277.6	87
SEG_000227	HONEYSUCKLE LN	TOWNE VUE DR	TOWNE VUE CIR	Asphalt	675.05 ft	30.00 ft	20251.42	87
SEG_000228	HONEYSUCKLE LN	TOWNE VUE CIR	SIR ARTHUR CT	Asphalt	793.92 ft	30.00 ft	23817.48	87
SEG_000327	HONEYSUCKLE LN	NW LOOP 410 ACCESS RD	SIR ARTHUR CT	Asphalt	1313.23 ft	30.00 ft	39396.9	87
SEG_000172	LOCHAVEN LN	CUL DE SAC	WICKFORD WAY	Asphalt	560.98 ft	30.00 ft	16829.43	87
SEG_000234	LOCHAVEN LN	COBBLESTONE CT	SQUIRES ROW	Asphalt	503.11 ft	30.00 ft	15093.33	87
SEG_000171	LOCHAVEN LN	WICKFORD WAY	COBBLESTONE CT	Asphalt	562.51 ft	30.00 ft	16875.21	87

Segment ID	Street Name	Street Ahead	Street Back	Pavement Type	Length	Width	Area (ft <sup>2</sup> )	Estimated OCI
SEG_000278	OAK ROYAL DR	SIR ARTHUR CT	WICKFORD WAY	Asphalt	384.22 ft	30.00 ft	11526.48	87
SEG_000284	OAK ROYAL DR	SHEFFIELD PL	SIR ARTHUR CT	Asphalt	423.18 ft	30.00 ft	12695.3	87
SEG_000175	OAK ROYAL DR	CHATTINGTON CT	SHEFFIELD PL	Asphalt	384.63 ft	30.00 ft	11538.87	87
SEG_000176	OAK ROYAL DR	NW LOOP 410 ACCESS RD	CHATTINGTON CT	Asphalt	249.46 ft	30.00 ft	7483.82	87
SEG_000200	ZORNIA DR	NW MILITARY HWY	E CASTLE LN	Asphalt	415.18 ft	30.00 ft	12455.34	87.5
SEG_000202	ZORNIA DR	WISTERIA DR	MIMOSA DR	Asphalt	415.18 ft	30.00 ft	12455.34	87.5
SEG_000149	ANTLER DR	WOTTLIN RD	FLINTSTONE ST	Asphalt	412.50 ft	30.00 ft	12374.85	88
SEG_000150	ANTLER DR	HONEYSUCKLE LN	ATWATER DR	Asphalt	223.75 ft	30.00 ft	6712.51	88
SEG_000148	ANTLER DR	FLINTSTONE ST	JACKSON-KELLER RD	Asphalt	711.82 ft	30.00 ft	21354.55	88
SEG_000291	ANTLER DR	ATWATER DR	WOTTLIN RD	Asphalt	238.58 ft	30.00 ft	7157.34	88
SEG_000151	ANTLER DR	BUCKAROO DR	HONEYSUCKLE LN	Asphalt	901.77 ft	30.00 ft	27053.05	88
SEG_000179	CASTLE LN E	ZORNIA DR	S MANTON LN	Asphalt	778.30 ft	30.00 ft	23349.14	88
SEG_000180	CASTLE LN E	CALADIUM DR	ZORNIA DR	Asphalt	576.15 ft	30.00 ft	17284.37	88
SEG_000270	CASTLE LN E	S MANTON LN	WEST AVE	Asphalt	1180.71 ft	30.00 ft	35421.21	88
SEG_000178	CASTLE LN W	WEST AVE	S WINSTON LN	Asphalt	1513.05 ft	30.00 ft	45391.57	88
SEG_000249	HALBART DR	NORTHCREST DR	NORTHCRESET DR	Asphalt	1503.32 ft	30.00 ft	45099.65	88
SEG_000087	KRAMERIA DR	ZORNIA DR	CALADIUM DR	Asphalt	563.35 ft	30.00 ft	16900.38	88
SEG_000122	KRAMERIA DR	ZORNIA DR	WEST AVE	Asphalt	742.59 ft	30.00 ft	22277.55	88
SEG_000262	KRAMERIA DR	LEMONWOOD DR	CALADIUM DR	Asphalt	643.70 ft	30.00 ft	19311	88
SEG_000073	NORTHCREST DR	BANYAN DR	HALBART DR	Asphalt	292.87 ft	30.00 ft	8786.1	88
SEG_000074	NORTHCREST DR	HALBART DR	BANYAN DR	Asphalt	616.01 ft	30.00 ft	18480.23	88
SEG_000248	NORTHCREST DR	LOCKHILL-SELMA RD	HALBART DR	Asphalt	517.70 ft	30.00 ft	15531.11	88
SEG_000127	TWINLEAF LN	GLADIOLA LN	TRAVERTINE LN	Asphalt	1592.91 ft	30.00 ft	47787.3	88
SEG_000256	HIBISCUS LN	FOX HALL LN	END OF PAVEMENT	Asphalt	870.82 ft	30.00 ft	26124.49	88.05
SEG_000121	MIMOSA DR	S MANTON LN	ZORNIA DR	Asphalt	795.02 ft	30.00 ft	23850.71	89
SEG_000280	MIMOSA DR	MIMOSA DR	WEST AVE	Asphalt	470.16 ft	30.00 ft	14104.85	89
SEG_000286	SHEFFIELD PL	CUL DE SAC	OAK ROYAL DR	Asphalt	1026.94 ft	30.00 ft	30808.25	89
SEG_000237	SHEFFIELD PL	OAK ROYAL DR	SQUIRES ROW	Asphalt	1036.93 ft	30.00 ft	31107.95	89
SEG_000159	SIR ARTHUR CT	IRONGATE RD	OAK ROYAL DR	Asphalt	873.82 ft	30.00 ft	26214.59	89
SEG_000277	SIR ARTHUR CT	OAK ROYAL DR	SQUIRES ROW	Asphalt	805.80 ft	30.00 ft	24173.87	89
SEG_000231	SQUIRES ROW	SIR ARTHUR CT	SHEFFIELD PL	Asphalt	360.50 ft	30.00 ft	14420.13	89
SEG_000131	SQUIRES ROW	CHATTINGTON CT	SHEFFIELD PL	Asphalt	419.31 ft	30.00 ft	16772.37	89
SEG_000298	SQUIRES ROW	SIR ARTHUR CT	WICKFORD WAY	Asphalt	490.62 ft	30.00 ft	19624.7	89
SEG_000130	SQUIRES ROW	NW LOOP 410 ACCESS RD	CHATTINGTON CT	Asphalt	398.23 ft	30.00 ft	15929.3	89
SEG_000233	SQUIRES ROW	LOCHAVEN LN	COBBLESTONE CT	Asphalt	515.22 ft	30.00 ft	20608.9	89

Segment ID	Street Name	Street Ahead	Street Back	Pavement Type	Length	Width	Area (ft <sup>2</sup> )	Estimated OCI
SEG_000232	SQUIRES ROW	COBBLESTONE CT	WICKFORD WAY	Asphalt	477.41 ft	30.00 ft	19096.45	89
SEG_000287	ROUNDUP DR	RANCHLAND DR	CASTLEOAKS DR	Asphalt	459.36 ft	30.00 ft	13780.7	89.59
SEG_000044	ROUNDUP DR	WEST AVE	CASTLEOAKS DR	Asphalt	557.57 ft	30.00 ft	16727.07	90.19
SEG_000181	HIBISCUS LN	WEST AVE	FOXHALL LN	Asphalt	885.84 ft	30.00 ft	26575.23	90.48
SEG_000058	BANYAN DR	GLENTOWER DR	GARDENVIEW DR	Asphalt	393.81 ft	30.00 ft	11814.29	94
SEG_000059	BANYAN DR	TAMWORTH DR	GLENTOWER DR	Asphalt	400.87 ft	30.00 ft	12025.98	94
SEG_000048	ADOBE DR	ROUNDUP DR	WEST AVE	Asphalt	1008.97 ft	30.00 ft	30269.19	95
SEG_000360	FOX HALL CV	FOX HALL LN	FOX HALL LN	Asphalt	689.81 ft	30.00 ft	20694.27	95
SEG_000221	HERWECK DR	BUCKAROO DR	DANUBE DR	Asphalt	561.03 ft	30.00 ft	16830.96	95
SEG_000230	IRONGATE RD	CUL DE SAC	SIR ARTHUR CT	Asphalt	432.82 ft	30.00 ft	12984.54	95
SEG_000160	IRONGATE RD	SIR ARTHUR CT	WICKFORD WAY	Asphalt	376.31 ft	30.00 ft	11289.2	95
SEG_000212	LOU JON CIR	CAS HILLS DR	HONEYSUCKLE LN	Asphalt	266.42 ft	30.00 ft	7992.69	95
SEG_000025	WEST AVE	NW LOOP 410 ACCESS RD	JACKSON-KELLER RD	Asphalt	687.51	70.00 ft	48125.86	95
SEG_000236	WICKFORD WAY	OAK ROYAL DR	SQUIRES ROW	Asphalt	524.02 ft	30.00 ft	20960.63	95.65
SEG_000235	WICKFORD WAY	IRONGATE RD	OAK ROYAL DR	Asphalt	582.47 ft	30.00 ft	23298.6	95.65
SEG_000174	WICKFORD WAY	LOCHAVEN LN	IRONGATE RD	Asphalt	413.32 ft	30.00 ft	16532.98	95.65
SEG_000173	WICKFORD WAY	LOCHAVEN LN	LOU JON CIR	Asphalt	480.80 ft	30.00 ft	19231.86	95.65
SEG_000147	HERWECK DR	BLANCO RD	BUCKAROO DR	Asphalt	1012.00 ft	30.00 ft	30360.12	96.5
SEG_000093	GLENTOWER DR	LOCKHILL-SELMA RD	BANYAN DR	Asphalt	1776.41 ft	30.00 ft	53292.18	99.46
SEG_000124	GLENTOWER DR	BANYAN DR	NW MILITARY HWY	Asphalt	352.57 ft	30.00 ft	10577.03	99.46
SEG_000222	ANTLER DR	BLANCO RD	BUCKAROO DR	Asphalt	1007.25 ft	30.00 ft	30217.62	100
SEG_000293	ATWATER DR	BUCKAROO DR	ANTLER DR	Asphalt	1317.36 ft	30.00 ft	39520.91	100
SEG_000057	BANYAN DR	CAROLWOOD DR	GARDENVIEW DR	Asphalt	437.74 ft	30.00 ft	13132.31	100
SEG_000215	BLUET LN	CUL DE SAC	AMERSON LN	Asphalt	258.49 ft	30.00 ft	7754.81	100
SEG_000289	BLUET LN	SHALIMAR DR	SHALIMAR DR	Asphalt	120.19 ft	30.00 ft	3605.71	100
SEG_000214	BLUET LN	AMERSON LN	SHALIMAR DR	Asphalt	125.63 ft	30.00 ft	3769.04	100
SEG_000288	BLUET LN	SHALIMAR DR	TRAVERTINE LN	Asphalt	339.30 ft	30.00 ft	10179.05	100
SEG_000043	CALADIUM DR	E CASTLE LN	PERSIMMON DR	Asphalt	848.54 ft	30.00 ft	25456.26	100
SEG_000038	CALADIUM DR	NW MILITARY HWY	E CASTLE LN	Asphalt	515.69	30.00 ft	15470.77	100
SEG_000088	CALADIUM DR	PERSIMMON DR	KRAMERIA DR	Asphalt	902.12 ft	30.00 ft	27063.62	100
SEG_000062	CAROLWOOD DR	BANYAN DR	BANYAN DR	Asphalt	245.40 ft	30.00 ft	7362.09	100
SEG_000209	CAS HILLS DR	LOU JON CIR	WICKFORD WAY	Asphalt	1206.26 ft	30.00 ft	36187.65	100
SEG_000211	CAS HILLS DR	BLANCO RD	VILLA ANN ST	Asphalt	231.03 ft	30.00 ft	6931.05	100
SEG_000210	CAS HILLS DR	VILLA ANN ST	WICKFORD WAY	Asphalt	454.24 ft	30.00 ft	13627.32	100
SEG_000075	CASTLE GARDENS DR	MARTHA GLYNN CT	WEST AVE	Asphalt	187.79 ft	30.00 ft	5633.75	100

Segment ID	Street Name	Street Ahead	Street Back	Pavement Type	Length	Width	Area (ft <sup>2</sup> )	Estimated OCI
SEG_000042	CASTLE GARDENS DR	MARTHA GLYNN CT	LA RUE ANN	Asphalt	446.50 ft	30.00 ft	13395.14	100
SEG_000049	CASTLE GARDENS DR	ELIZABETH ANN	LA RUE ANN	Asphalt	293.74 ft	30.00 ft	8812.23	100
SEG_000247	DANI LN	WEST AVE	CUL DE SAC	Asphalt	407.99 ft	30.00 ft	12239.82	100
SEG_000078	DOGWOOD LN	LOCKHILL-SELMA RD	NW MILITARY HWY	Asphalt	1783.75 ft	30.00 ft	53512.47	100
SEG_000054	ELIZABETH ANN CT	CASTLE GARDENS DR	CUL DE SAC	Asphalt	170.25 ft	30.00 ft	5107.4	100
SEG_000055	ELIZABETH ANN CT	CUL DE SAC	CASTLE GARDENS DR	Asphalt	108.77 ft	30.00 ft	3263.06	100
SEG_000155	FLINTSTONE CT	CUL DE SAC	FLINTSTONE ST	Asphalt	138.89 ft	30.00 ft	4166.6	100
SEG_000154	FLINTSTONE CT	FLINTSTONE ST	CUL DE SAC	Asphalt	140.69 ft	30.00 ft	4220.67	100
SEG_000153	FLINTSTONE ST	FLINTSTONE CT	ANTLER DR	Asphalt	395.34 ft	30.00 ft	11860.3	100
SEG_000243	FOX HALL LN	FOX HALL CV	FOX HALL CV	Asphalt	266.70 ft	30.00 ft	8000.91	100
SEG_000307	GARDENVIEW DR S	NW MILITARY HWY	ROLETO DR	Asphalt	951.26 ft	30.00 ft	28537.83	100
SEG_000326	HONEYSUCKLE LN	LEMONWOOD DR	NW LOOP 410 ACCESS RD	Asphalt	775.92 ft	30.00 ft	23277.57	100
SEG_000053	LA RUE ANN CT	CASTLE GARDENS DR	CUL DE SAC	Asphalt	163.41 ft	30.00 ft	4902.16	100
SEG_000052	LA RUE ANN CT	CUL DE SAC	CASTLE GARDENS DR	Asphalt	118.58 ft	30.00 ft	3557.41	100
SEG_000263	LEMONWOOD DR	HONEYSUCKLE LN	KRAMERIA DR	Asphalt	341.56 ft	30.00 ft	10246.76	100
SEG_000257	LEMONWOOD DR	PERSIMMON DR	HONEYSUCKLE LN	Asphalt	560.65 ft	30.00 ft	16819.49	100
SEG_000258	LEMONWOOD DR	ROLETO DR	PERSIMMON DR	Asphalt	314.44 ft	30.00 ft	9433.18	100
SEG_000271	LEMONWOOD DR	ROLETO DR	ROLETO DR	Asphalt	129.73 ft	30.00 ft	3891.79	100
SEG_000129	LOU JON CIR	WICKFORD WAY	CAS HILLS DR	Asphalt	1305.05 ft	30.00 ft	39151.59	100
SEG_000372	LOU JON CIR	LOU JON CIR	CAS HILLS DR	Asphalt	719.35 ft	30.00 ft	21580.5	100
SEG_000076	MARTHA GLYNN CT	CASTLE GARDENS DR	CUL DE SAC	Asphalt	100.36 ft	30.00 ft	3010.91	100
SEG_000079	PRINZ DR	BANYAN DR	NW MILITARY HWY	Asphalt	770.10 ft	30.00 ft	23102.95	100
SEG_000080	PRINZ DR	LOCKHILL-SELMA RD	BANYAN DR	Asphalt	1142.77 ft	30.00 ft	34283.25	100
SEG_000218	RIVIERA DR	BLANCO RD	DANUBE DR	Asphalt	1296.26 ft	30.00 ft	38887.74	100
SEG_000272	ROLETO DR	NW MILITARY HWY	LEMONWOOD DR	Asphalt	1169.84 ft	30.00 ft	35095.1	100
SEG_000279	ROUNDUP DR	END OF PAVEMENT	ADOBE DR	Asphalt	233.14 ft	30.00 ft	6994.09	100
SEG_000216	SHALIMAR DR	BLUET LN	JACKSON-KELLER RD	Asphalt	625.67 ft	30.00 ft	18770.04	100
SEG_000070	TAMWORTH DR	BANYAN DR	BANYAN DR	Asphalt	639.32 ft	30.00 ft	19179.56	100
SEG_000094	TAMWORTH DR	BANYAN DR	NW MILITARY HWY	Asphalt	317.65 ft	30.00 ft	9529.59	100
SEG_000268	TAMWORTH DR	LOCKHILL-SELMA RD	BANYAN DR	Asphalt	1136.83 ft	30.00 ft	34104.94	100
SEG_000260	TRAVERTINE LN	DANDELION LN	JACKSON-KELLER RD	Asphalt	489.03 ft	30.00 ft	14671.04	100
SEG_000157	TRAVERTINE LN	BLUET LN	DANDELION LN	Asphalt	345.55 ft	30.00 ft	10366.45	100
SEG_000203	TRAVERTINE LN	TWINLEAF LN	TRILLIUM LN	Asphalt	343.63 ft	30.00 ft	10308.94	100
SEG_000204	TRAVERTINE LN	TRILLIUM LN	BLUET LN	Asphalt	349.81 ft	30.00 ft	10494.39	100
SEG_000126	TRILLIUM LN	GLADIOLA LN	TRAVERTINE LN	Asphalt	1419.16 ft	30.00 ft	42574.81	100

## Appendix A.2

## Pavement Condition Inventory


(Streets - PCI - Low to High)

Segment ID	Street Name	Street Ahead	Street Back	Pavement Type	Length	Width	Area (ft <sup>2</sup> )	Estimated OCI
SEG_000253	VUEWOOD ST	WEST AVE	CUL DE SAC	Asphalt	263.28 ft	30.00 ft	7898.25	100
SEG_000219	WAYDELE CIR	CUL DE SAC	HERWECK DR	Asphalt	556.42 ft	30.00 ft	16692.52	100

## Appendix A.3 – Cost Basis

ITEM NO.	DESCRIPTION	UNIT	QUANT	UNIT PRICE	TOTAL PRICE
<b>Seal Coat</b>					
XXX.XX	MOBILIZATION (3%)	LS	1	\$ 787.50	\$ 787.50
100.2	INSURANCE AND BOND (3%)	LS	1	\$ 787.50	\$ 787.50
XXX.XX	TRAFFIC CONTROL (2%)	LS	1	\$ 525.00	\$ 525.00
XXX.XX	SEAL COAT HA5 (HIGH DENSITY MINERAL BOND)	SY	7500	\$ 3.50	\$ 26,250.00
		SUBTOTAL			\$ 26,250.00
		TOTAL			\$ 28,350.00
				<b>PRICE per SF</b>	<b>\$ 0.39</b>
<b>Micro-surfacing</b>					
100.1	MOBILIZATION (11%)	LS	1	\$ 80,979.25	\$ 80,979.25
100.2	INSURANCE AND BOND (3%)	LS	1	\$ 22,085.25	\$ 22,085.25
101.1	PREPARING RIGHT-OF-WAY (4%)	LS	1	\$ 29,447.00	\$ 29,447.00
239.2	MICROSURFACING (30 LBS per SY)	TON	2677	\$ 275.00	\$ 736,175.00
		SUBTOTAL			\$ 736,175.00
		TOTAL			\$ 868,686.50
				<b>PRICE per SF</b>	<b>\$ 0.54</b>
<b>Mill and Overlay</b>					
100.1	MOBILIZATION (11%)	LS	1	\$ 339,003.58	\$ 339,003.58
100.2	INSURANCE AND BOND (3%)	LS	1	\$ 92,455.52	\$ 92,455.52
101.1	PREPARING RIGHT-OF-WAY (4%)	LS	1	\$ 115,983.10	\$ 115,983.10
103.1	REMOVING CONCRETE CURB	LF	27,717	\$ 3.50	\$ 97,009.50
205.4	HOT MIX ASPHALTIC PAVEMENT, TYPE D (2" COMP. DEPTH)	SY	57,170	\$ 12.50	\$ 714,625.00
205.4	HOT MIX ASPHALTIC PAVEMENT, TYPE D (LEVEL-UP)	TON	1,257	\$ 140.00	\$ 175,980.00
208.1	SALVAGING, HAULING & STOCKPILING REC ASPH PVMT	SY	57,170	\$ 9.20	\$ 525,964.00
230.1	FLEXIBLE PAVEMENT STRUCTURE REPAIR	SY	17,151	\$ 71.40	\$ 1,224,581.40
500.1	CONCRETE CURB	LF	27,717	\$ 12.40	\$ 343,690.80
		SUBTOTAL			\$ 3,081,850.70
		TOTAL			\$ 3,629,292.90
	CONTINGENCY (SWPP, TRAFFIC CONTROL, ETC.)			5%	\$ 181,464.64
				<b>PRICE per SF</b>	<b>\$ 7.41</b>
<b>Full Depth Reconstruction</b>					
100.1	MOBILIZATION (11%)	LS	1	\$ 436,123.84	\$ 436,123.84
100.2	INSURANCE AND BOND (3%)	LS	1	\$ 118,942.87	\$ 118,942.87
101.1	PREPARING RIGHT-OF-WAY (4%)	LS	1	\$ 158,590.49	\$ 158,590.49
103.1	REMOVING CONCRETE CURB	LF	31,007	\$ 3.50	\$ 108,524.50
104.1	STREET EXCAVATION	CY	22,919	\$ 23.50	\$ 538,596.50
108.1	LIME TREATED SUBGRADE (6" COMPAKTED DEPTH)	SY	57,170	\$ 6.50	\$ 371,605.00
200.1	FLEXIBLE BASE (6" COMPAKTED DEPTH)	SY	57,170	\$ 9.20	\$ 525,964.00
202.1	PRIME COAT	GAL.	11,434	\$ 6.00	\$ 68,604.00
203.1	TACK COAT	GAL	5,717	\$ 6.20	\$ 35,445.40
341.6043	HOT MIX ASPHALTIC PAVEMENT, TYPE D (4" COMP. DEPTH)	SY	57,170	\$ 15.30	\$ 874,701.00
500.1	CONCRETE CURB	LF	31,007	\$ 12.40	\$ 384,486.80
503.1	PORTLAND CEMENT CONCRETE DRIVEWAY	SY	16,259	\$ 65.00	\$ 1,056,835.00
		SUBTOTAL			\$ 3,964,762.20
		TOTAL			\$ 4,678,419.40
	CONTINGENCY (TDLR, SWPP, TRAFFIC CONTROL, ETC.)			25%	\$ 1,169,604.85
				<b>PRICE per SF</b>	<b>\$ 11.37</b>

**CITY OF CASTLE HILLS  
ROADWAY CONDITION ASSESSMENT  
JANUARY 2022**



RECOMMENDATION (FULL DEPTH)											
ID	Street	Street Ahead	Street Back	Length (ft)	Width (ft)	Area (sf)	Estimated OCI	Treatment	Cost per SF	Segement Cost	CIP Year
SEG_000069	WOTTLIN RD	ANTLER DR	COTILLION DR	234.90	30.00	7,047.00	33.42	FD	11.37	\$80,124.39	1
SEG_000290	SHALIMAR DR	BLUET LN	COTILLION DR	2,225.78	30.00	66,773.40	35.39	FD	11.37	\$759,213.56	1
SEG_000213	BLUET LN	GLADIOLA LN	TRAVERTINE LN	1,243.68	30.00	37,310.40	38.55	FD	11.37	\$424,219.25	1
SEG_000041	ROLETO DR	S GARDENVIEW DR	NW LOOP 410 ACCESS RD	601.17	30.00	18,035.10	39.02	FD	11.37	\$205,059.09	1
SEG_000245	BRIARCLIFF DR	LOCKHILL-SELMA RD	BANYAN DR	1,141.98	30.00	34,259.40	47.18	FD	11.37	\$389,529.38	1
SEG_000089	WOTTLIN RD	TOWNE VUE DR	COTILLION DR	414.08	30.00	12,422.40	31.16	FD	11.37	\$141,242.69	2
SEG_000040	ROLETO DR	LEMONWOOD DR	S GARDENVIEW DR	480.19	30.00	14,405.70	42.29	FD	11.37	\$163,792.81	2
SEG_000208	DANDELION LN	TRAVERTINE LN	PHLOX LN	400.87	30.00	12,026.10	27.89	FD	11.37	\$136,736.76	3
SEG_000385	PERSIMMON DR	LEMONWOOD DR	CALADIUM DR	640.59	30.00	19,217.70	32.39	FD	11.37	\$218,505.25	3
SEG_000246	BILTMORE ST	END OF PAVEMENT	NW MILITARY HWY	497.75	28.00	13,937.00	38.68	FD	11.37	\$158,463.69	3
SEG_000394	LUNDBLADE LN	LUNDBLADE LN	LUNDBLADE LN	899.53	30.00	26,985.90	41.74	FD	11.37	\$306,829.68	3
SEG_000067	COTILLION DR	SHALIMAR DR	JACKSON-KELLER RD	152.71	30.00	4,581.30	42.64	FD	11.37	\$52,089.38	3
SEG_000060	BANYAN DR	NORTHCREST DR	BRIARCLIFF DR	395.10	30.00	11,853.00	44.08	FD	11.37	\$134,768.61	3
SEG_000068	COTILLION DR	WOTTLIN RD	SHALIMAR DR	1,050.10	30.00	31,503.00	45.48	FD	11.37	\$358,189.11	3
SEG_000095	PEG SUE CT	LOCKHILL-SELMA RD	CUL DE SAC	132.13	30.00	3,963.90	46.56	FD	11.37	\$45,069.54	3
SEG_000125	PHLOX LN	DANDELION LN	GLADIOLA LN	404.19	30.00	12,125.70	46.85	FD	11.37	\$137,869.21	3
SEG_000146	PARADE DR	BLANCO RD	DANUBE DR	1,016.76	30.00	30,502.80	46.92	FD	11.37	\$346,816.84	3
										\$4,058,519.23	
										\$1,653,086.57	
										\$2,405,432.65	

RECOMMENDATION (MILL & OVERLAY)											
ID	Street	Street Ahead	Street Back	Length (ft)	Width (ft)	Area (sf)	Estimated OCI	Treatment	Cost per SF	Segment Cost	CIP Year
SEG_000077	MANTON LN N	LOCKHILL-SELMA RD	NW MILITARY HWY	1,376.67	30.00	41,300.10	61.04	Mill & Overlay	\$7.41	\$306,033.74	1
SEG_000223	ATWATER DR	BLANCO RD	BUCKAROO DR	1,010.27	30.00	30,308.10	64.66	Mill & Overlay	\$7.41	\$224,583.02	1
SEG_000264	SUNFLOWER LN	LOCKHILL-SELMA RD	NW MILITARY HWY	1,507.49	30.00	45,224.70	65.78	Mill & Overlay	\$7.41	\$335,115.03	1
SEG_000093	GLENTOWER DR	LOCKHILL-SELMA RD	BANYAN DR	1,776.41	30.00	53,292.30	99.46	Mill & Overlay	\$7.41	\$394,895.94	1
SEG_000123	GARDENVIEW DR	LOCKHILL-SELMA RD	BANYAN DR	1,776.95	30.00	53,308.50	91.02	Mill & Overlay	\$7.41	\$395,015.99	1
SEG_000239	WINSTON LN S	NW MILITARY HWY	W CASTLE LN	1,358.30	30.00	40,749.00	27.38	Mill & Overlay	\$7.41	\$301,950.09	1
SEG_000158	SIR ARTHUR CT	SQUIRES ROW	HONEYSUCKLE LN	414.58	30.00	12,437.40	50.26	Mill & Overlay	\$7.41	\$92,161.13	2
SEG_000045	ROUNDUP DR	RANCHLAND DR	ADOBE DR	460.24	30.00	13,807.20	51.36	Mill & Overlay	\$7.41	\$102,311.35	2
SEG_000140	WEST AVE	CASTLEOAKS DR	RANCHLAND DR	585.50	30.00	17,565.00	51.53	Mill & Overlay	\$7.41	\$130,156.65	2
SEG_000207	DANDELION LN	PHLOX LN	GLADIOLA LN	574.88	30.00	17,246.40	54.85	Mill & Overlay	\$7.41	\$127,795.82	2
SEG_000046	CASTLEOAKS DR	ROUNDUP DR	WEST AVE	428.48	30.00	12,854.40	55.09	Mill & Overlay	\$7.41	\$95,251.10	2
SEG_000206	TRAVERTINE LN	TOWNE VUE DR	TWINLEAF LN	346.45	30.00	10,393.50	55.57	Mill & Overlay	\$7.41	\$77,015.84	2
SEG_000051	BANYAN DR	BRIARCLIFF DR	TAMWORTH DR	392.52	30.00	11,775.60	55.63	Mill & Overlay	\$7.41	\$87,257.20	2
SEG_000081	CAROLWOOD DR	BANYAN DR	NW MILITARY HWY	449.40	30.00	13,482.00	55.97	Mill & Overlay	\$7.41	\$99,901.62	2
SEG_000240	WINSTON LN S	W CASTLE LN	FOX HALL LN	985.13	30.00	29,553.90	56.37	Mill & Overlay	\$7.41	\$218,994.40	2
SEG_000182	WINSTON LN N	LOCKHILL-SELMA RD	NW MILITARY HWY	664.83	30.00	19,944.90	45.62	Mill & Overlay	\$7.41	\$147,791.71	2
SEG_000028	WEST AVE	ADOBE DR	NW LOOP 410 ACCESS RD	412.01	30.00	12,360.30	57.18	Mill & Overlay	\$7.41	\$91,589.82	2
SEG_000199	MANTON LN S	NW MILITARY HWY	E CASTLE LN	638.38	30.00	19,151.40	59.18	Mill & Overlay	\$7.41	\$141,911.87	2
SEG_000230	IRONGATE RD	SIR ARTHUR CT	SIR ARTHUR CT	150.00	30.00	4,500.00	59.33	Mill & Overlay	\$7.41	\$33,345.00	2
SEG_000225	BUCKAROO DR	ANTLER DR	ATWATER DR	384.25	30.00	11,527.50	64.66	Mill & Overlay	\$7.41	\$85,418.78	2
SEG_000254	WEST AVE	KRAMERIA DR	FOX HALL LN	348.76	70.00	24,413.20	65.07	Mill & Overlay	\$7.41	\$180,901.81	2
SEG_000091	WEST AVE	HIBISCUS LN	WISTERIA DR	531.19	70.00	37,183.30	65.23	Mill & Overlay	\$7.41	\$275,528.25	2
SEG_000251	WEST AVE	MIMOSA DR	KRAMERIA DR	533.03	70.00	37,312.10	65.67	Mill & Overlay	\$7.41	\$276,482.66	2
SEG_000092	WEST AVE	W CASTLE LN	HIBISCUS LN	685.69	70.00	47,998.30	65.82	Mill & Overlay	\$7.41	\$355,667.40	2
SEG_000134	TOWNE VUE ST	HONEYSUCKLE LN	TOWNE VUE DR	406.61	30.00	12,198.30	65.86	Mill & Overlay	\$7.41	\$90,389.40	2
SEG_000118	MANTON LN S	E CASTLE LN	WISTERIA DR	726.42	30.00	21,792.60	66.46	Mill & Overlay	\$7.41	\$161,483.17	2
SEG_000142	WEST AVE	NW MILITARY HWY	DANI LN	528.47	70.00	36,992.90	66.65	Mill & Overlay	\$7.41	\$274,117.39	2
SEG_000265	MOSS DR	LOCKHILL-SELMA RD	NW MILITARY HWY	1,652.90	30.00	49,587.00	69.27	Mill & Overlay	\$7.41	\$367,439.67	2
SEG_000047	RANCHLAND DR	ROUNDUP DR	WEST AVE	685.69	30.00	20,570.70	59.81	Mill & Overlay	\$7.41	\$152,428.89	3
SEG_000197	WEST AVE	RANCHLAND DR	ADOBE DR	563.25	30.00	16,897.50	59.82	Mill & Overlay	\$7.41	\$125,210.48	3
										TOTAL	\$8,142,028.71
											\$1,957,593.81
											\$6,184,434.91



RECOMMENDATION (SEAL COAT)											
ID	Street	Street Ahead	Street Back	Length (ft)	Width (ft)	Area (sf)	Estimated OCI	Treatment	Cost per SF	Segment Cost	CIP Year
SEG_000238	CHATTINGTON CT	OAK ROYAL DR	SQUIRES ROW	1,346.02	30.00	40,380.60	87	Seal Coat	0.39	\$15,748.43	1
SEG_000285	CHATTINGTON CT	CUL DE SAC	OAK ROYAL DR	764.27	30.00	22,928.10	87	Seal Coat	0.39	\$8,941.96	1
SEG_000276	COBBLESTONE CT	LOCHAVEN LN	SQUIRES ROW	825.92	30.00	24,777.60	87	Seal Coat	0.39	\$9,663.26	1
SEG_000143	DANUBE DR	PARADE DR	JACKSON-KELLER RD	1,512.61	30.00	45,378.30	87	Seal Coat	0.39	\$17,697.54	1
SEG_000144	DANUBE DR	RIVIERA DR	PARADE DR	471.80	30.00	14,154.00	87	Seal Coat	0.39	\$5,520.06	1
SEG_000145	DANUBE DR	HERWECK DR	RIVIERA DR	469.01	30.00	14,070.30	87	Seal Coat	0.39	\$5,487.42	1
SEG_000136	GLADIOLA LN	PHLOX LN	JACKSON-KELLER RD	286.14	30.00	8,584.20	87	Seal Coat	0.39	\$3,347.84	1
SEG_000137	GLADIOLA LN	DANDELION LN	PHLOX LN	439.74	30.00	13,192.20	87	Seal Coat	0.39	\$5,144.96	1
SEG_000138	GLADIOLA LN	BLUET LN	DANDELION LN	200.78	30.00	6,023.40	87	Seal Coat	0.39	\$2,349.13	1
SEG_000156	GLADIOLA LN	TOWNE VUE DR	TRILLIUM LN	419.78	30.00	12,593.40	87	Seal Coat	0.39	\$4,911.43	1
SEG_000229	GLADIOLA LN	TRILLIUM LN	BLUET LN	387.10	30.00	11,613.00	87	Seal Coat	0.39	\$4,529.07	1
SEG_000275	GLADIOLA LN	NW LOOP 410 ACCESS RD	TOWNE VUE DR	227.37	30.00	6,821.10	87	Seal Coat	0.39	\$2,660.23	1
SEG_000292	HONEYSUCKLE LN	ALLEY	ANTLER DR	352.75	30.00	10,582.50	87	Seal Coat	0.39	\$4,127.18	1
SEG_000226	HONEYSUCKLE LN	LOU JON CIR	TOWNE VUE DR	442.59	30.00	13,277.70	87	Seal Coat	0.39	\$5,178.30	1
SEG_000227	HONEYSUCKLE LN	TOWNE VUE DR	TOWNE VUE ST	675.05	30.00	20,251.50	87	Seal Coat	0.39	\$7,898.09	1
SEG_000228	HONEYSUCKLE LN	TOWNE VUE ST	SIR ARTHUR CT	793.92	30.00	23,817.60	87	Seal Coat	0.39	\$9,288.86	1
SEG_000327	HONEYSUCKLE LN	NW LOOP 410 ACCESS RD	SIR ARTHUR CT	1,313.23	30.00	39,396.90	87	Seal Coat	0.39	\$15,364.79	1
SEG_000172	LOCHAVEN LN	CUL DE SAC	WICKFORD WAY	560.98	30.00	16,829.40	87	Seal Coat	0.39	\$6,563.47	1
SEG_000234	LOCHAVEN LN	COBBLESTONE CT	SQUIRES ROW	503.11	30.00	15,093.30	87	Seal Coat	0.39	\$5,886.39	1
SEG_000171	LOCHAVEN LN	WICKFORD WAY	COBBLESTONE CT	562.51	30.00	16,875.30	87	Seal Coat	0.39	\$6,581.37	1
SEG_000278	OAK ROYAL DR	SIR ARTHUR CT	WICKFORD WAY	384.22	30.00	11,526.60	87	Seal Coat	0.39	\$4,495.37	1
SEG_000284	OAK ROYAL DR	SHEFFIELD PL	SIR ARTHUR CT	423.18	30.00	12,695.40	87	Seal Coat	0.39	\$4,951.21	1
SEG_000175	OAK ROYAL DR	CHATTINGTON CT	SHEFFIELD PL	384.63	30.00	11,538.90	87	Seal Coat	0.39	\$4,500.17	1
SEG_000176	OAK ROYAL DR	NW LOOP 410 ACCESS RD	CHATTINGTON CT	249.46	30.00	7,483.80	87	Seal Coat	0.39	\$2,918.68	1
SEG_000203	ZORNIA DR	MIMOSA DR	KRAMERIA DR	483.00	30.00	14,490.00	85.9	Seal Coat	0.39	\$5,651.10	1
SEG_000201	ZORNIA DR	E CASTLE LN	WISTERIA DR	483.00	30.00	14,490.00	85.9	Seal Coat	0.39	\$5,651.10	1
										\$175,057.39	