



City of Arlington  
Transportation Benefit District  
Proposed 2015 Pavement Preservation Workplan

Prepared By: City of Arlington Public Works  
Date Prepared: Oct 28, 2014

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Public Works has prepared the following proposed Pavement Preservation Workplan for 2015. This work plan has been developed in accordance with the City of Arlington Pavement Management Program (PMP) and with the goals and objectives set forth by the TBD Board of Directors. At the end of this Workplan is a summary of the pavement preservation work completed as part of the 2014 Workplan.

### **2015 WORK PLAN**

The 2015 Workplan includes preservation of approximately 40 road segments by various preservation technologies, each appropriate for the road classification and Average Daily Traffic (ADT). In addition, the 2015 Workplan includes preservation of approximately 30 road segments that were scheduled for preservation in 2014 but not completed due to weather.

- **Pavement Preservation Technologies** – The following pavement preservation technologies are proposed for the 2015 Workplan:
  - **Slurry Seal** – A slurry seal coating consists of asphalt emulsion, sand and rock that is mixed together on-site in a slurry seal application vehicle and applied to the road surface as a thick mixture. The mixture is spread across the road section by a spreader-bar connected to the slurry seal application vehicle; the final application thickness is set by the selected grade of aggregate. Prior to application, the contractor will pre-clean the street, perform full depth asphalt repair where needed, and seal open cracks. After application the slurry seal must dry for 3-4 hours before a road surface can be reopened to traffic. Slurry seal is a cost effective maintenance treatment that can be applied with nominal impact to residents and provides a new wearing course. Slurry seal is weather dependent – roads must be dry and is cannot be applied in the rain; drying time (or set time) will be influenced by weather and temperature.
  - **Asphalt Overlay** – An asphalt overlay is a structural treatment technology that provides a new wearing surface to an existing road. This preservation process entails first preparing the road surface by repairing road sections that are structurally deficient or not acceptable for this preservation treatment (alligator cracking, pot-holes, etc). The road is then cleaned and swept, an asphalt emulsion (tack coat) is placed and immediately following a 1.5” thick layer of Hot Mixed Asphalt (HMA) is installed and compacted. Asphalt overlay is well suited for roads that do not have curb & gutter. If a road does have curb & gutters, a taper grind will be made parallel to the gutters prior to application of the HMA overlay. Installation of an asphalt overlay using a taper grind will cause an increase in the roadway crown (cross slope).

- **Cape Seal** – A Cape Seal is a term used for preserving a road surface by bonding a new wearing course to the road surface, in the 2015 Workplan a 3/8” Cape Seal is proposed. This road preservation treatment is a non-structural treatment. This process entails first preparing the road surface by sealing cracks and patching asphalt sections that are structurally deficient or not acceptable for this preservation treatment (rutting, alligator cracking, pot-holes, etc). The road is then cleaned and swept followed by an application of an asphalt emulsion onto which small angular rocks (chips) are placed and thoroughly compacted into the emulsion. The “Chips” consist of rocks that less than 3/8” in size (able to pass a 3/8” sieve) with a minor blending of some rocks of smaller size. After the chips have been compacted into the emulsion, a top coat of asphalt emulsion is placed on the chips to seal them to the road surface. The treatment provides a new wearing surface with greater traction, provides protection from Ultra Violet (UV) degradation, and provides protection from freeze-thaw cycles.
  
- **Preparation of Bid Documents** – All bid documents, specifications and drawings will be prepared in house; no consultant will be needed. The 2015 Workplan will include multiple bids and contracts, work will be bid and managed in the following contractual segments:
  - Geotechnical Inspection/testing
  - Asphalt Overlay
  - Striping
  - Cape Seal
  - Slurry Seal
  - Crack Seal/Misc. Repairs
  
- **Geotechnical Testing & Inspection** – Work includes testing existing roads for structural subgrade strength, assessing settlement issues on three other road segments, and perform material testing on pavement preservation material.
  
- **Pavement Preservation Road Sections** – The following is a summary of the road section scheduled for preservation under the 2015 Workplan, please see attached maps for road locations and referenced road segments:
 

<u>Roadway Project ID:</u>	2015-01
<u>Roadway name(s):</u>	Smokey Point Blvd (188 <sup>th</sup> St to SR-530)
<u>Arlington Area:</u>	West Arlington area ( <i>see drawing 1 of 7</i> )
<u>Proposed Work Type:</u>	Cape Seal
<u>Comments:</u>	This project is partially funded (86.5%) by a pavement preservation grant from the PSRC.

Roadway Project ID: 2015-02  
Roadway name(s): 188<sup>th</sup> St & 47<sup>th</sup> Ave (Smokey Point Blvd to Cemetery Rd)  
Arlington Area: West Arlington area (*see drawing 2 of 7*)  
Proposed Work Type: Cape Seal  
Comments: These segments were selected because 188<sup>th</sup> is an arterial road that can realize a cost benefit from the contractor mobilized for the Smokey Pint Blvd cape seal project.

Roadway Project ID: 2015-03  
Roadway name(s): 177<sup>th</sup> PI NE, 178<sup>th</sup> PI NE, and 179<sup>th</sup> PI NE  
Arlington Area: West Arlington area (*see drawing 3 of 7*)  
Proposed Work Type: Slurry Seal – Grade II  
Comments: Project scheduled for 2014 but not completed. Crack seal and pavement patching completed, slurry seal only.

Roadway Project ID: 2015-04  
Roadway name(s): 179<sup>th</sup> St, 31<sup>st</sup> Dr, 33<sup>rd</sup> Ave, 176<sup>th</sup> Pl, and 177<sup>th</sup> Pl  
Arlington Area: West Arlington area (*see drawing 4 of 7*)  
Proposed Work Type: Slurry Seal – Grade II  
Comments: Project scheduled for 2014 but not completed. Crack seal and pavement patching completed, slurry seal only.

Roadway Project ID: 2015-05  
Roadway name(s): 177<sup>th</sup> Pl and Totem Park Lane  
Arlington Area: West Arlington area (*see drawing 5 of 7*)  
Proposed Work Type: Asphalt Overlay  
Comments: New project for residential West Arlington, contiguous with projects 2015-03 and 2015-04.

Roadway Project ID: 2015-06  
Roadway name(s): 174<sup>th</sup> Pl and 175<sup>th</sup> Pl  
Arlington Area: West Arlington area (*see drawing 3 of 7*)  
Proposed Work Type: Slurry Seal – Grade II  
Comments: New project for residential West Arlington, contiguous with projects 2015-03 and 2015-04.

Roadway Project ID: 2015-07  
Roadway name(s): Jensen/Marion/Joann Area  
Arlington Area: Old Town District (*see drawing 6 of 7*)  
Proposed Work Type: Asphalt Overlay with taper grind  
Comments: This project will be a joint utility and road preservation project. The Water Utility is replacing approximately 2,600 LF of water main and we will overlay the roads after the water main is installed.

Roadway Project ID: 2015-08  
Roadway name(s): Misc Crack Seal & Pavement Repair  
Arlington Area: Old Town District (*see drawing 7 of 7*)  
Proposed Work Type: Slurry Seal – Grade II  
Comments: N/A

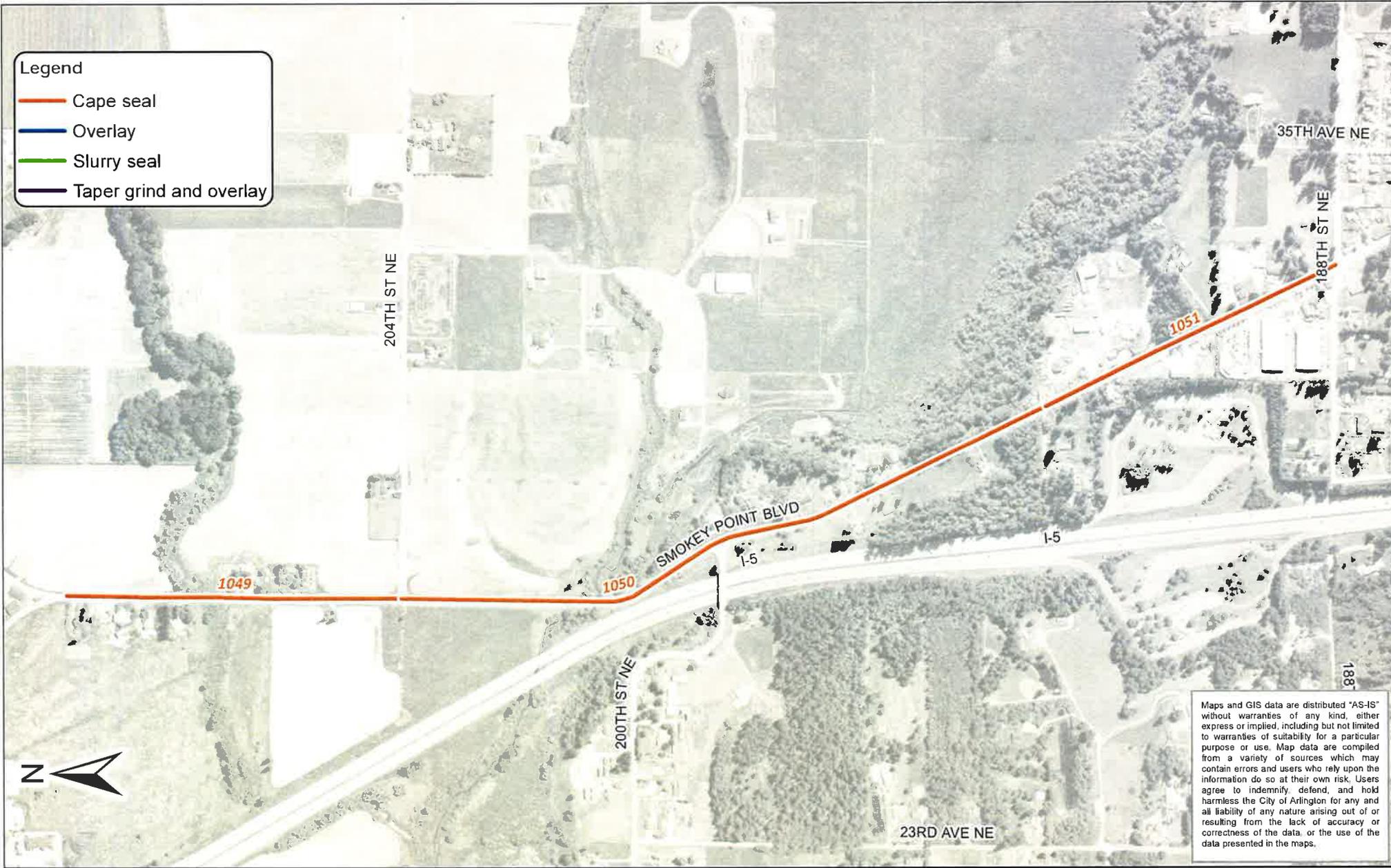
Roadway Project ID: 2015-09  
Roadway name(s): Striping & Crosswalks  
Arlington Area: *various areas*  
Proposed Work Type: Install striping and crosswalk thermoplastic after road preservation work is complete  
Comments: N/A

- **2015 Work Plan Preliminary Funding & Cost Estimate** - Preliminary funding cost estimates for the proposed 2015 Workplan are summarized below; a detailed estimate of the road segment preservation work is included at the end of this document.

Source	Amount	Comment
PSRC Grant	\$ 134,965	Grant from PSRC for SPB Cape Seal
Water Utility	\$ 65,000	Water utility contribution for pavement repair
TBD Funds-2015	\$ 793,589	TBD Funds
TOTAL	\$ 993,554	

<b>Task Item</b>	<b>Estimate</b>
Engineering/Bid Docs	\$ -----
Geotech/Testing	\$ 18,250
Cape Seal Work	\$ 320,067
Slurry Seal Work	\$ 149,914
Overlay/Repair Work	\$ 402,275
Striping/Crosswalks	\$ 26,760
ADA Ramps	\$ 47,350
Contingency (3%)	\$ 28,938
<b>TOTAL</b>	\$ 993,554

- Legend**
- Cape seal
  - Overlay
  - Slurry seal
  - Taper grind and overlay



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SEG_ID	NAME	START	END	PCI	WIDTH	LEN	SQ YDS
1049	SMOKEY POINT BLVD	SMOKEY POINT BLVD	204TH ST NE	78	22	1,903	4,653
1050	SMOKEY POINT BLVD	204TH ST NE	193RD ST NE	81	22	3,927	9,598
1051	SMOKEY POINT BLVD	193RD ST NE	188TH ST NE	70	22	1,829	4,471
<b>Total</b>							<b>18,722</b>

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City of Arlington  
**Cape Seal Plan  
 for Smokey Point Blvd**

Sheet:	2	Scale:	1 inch = 750 feet
Date:	10/21/2014	File:	SmokeyPtBl8.5x11_14

**Legend**

- Cape seal
- Overlay
- Slurry seal
- Taper grind and overlay



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SEG ID	NAME	START	END	PCI	WIDTH	LEN	SQ YDS
1463	47TH AVE NE	191ST PL NE	188TH ST NE	79	28	1,132	3,521
1508	47TH AVE NE	196TH PL NE	195TH ST NE	80	28	358	1,114
1509	47TH AVE NE	195TH ST NE	193RD PL NE	70	28	613	1,909
1510	47TH AVE NE	193RD PL NE	191ST PL NE	70	28	652	2,028
1190	188TH ST NE	35TH AVE NE	CITY LIMITS	78	26	656	1,895
1191	188TH ST NE	SMOKEY POINT BLVD	35TH AVE NE	70	26	667	1,927
1484	188TH ST NE	43RD DR NE	46TH AVE NE	83	28	759	2,360
1511	47TH AVE NE	CEMETERY RD	196TH PL NE	85	28	766	2,384
1531	188TH ST NE	46TH AVE NE	47TH AVE NE	93	28	338	1,052
1532	188TH ST NE	42ND DR NE	43RD DR NE	65	28	394	1,226
1535	188TH ST NE	CITY LIMITS	42ND DR NE	93	28	289	898
NA	188TH ST NE	CITY LIMITS	CITY LIMITS	NA	28	1,457	4,533
<b>Total</b>							<b>24,846</b>

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City of Arlington

**Cape Seal Plan  
for 188th St and 47th Ave**

Sheet:	1	Scale:	1 inch = 667 feet
Date:	10/21/2014	File:	188th_47th.85x11_14







**Legend**

- Cape seal
- Overlay
- Slurry seal
- Taper grind and overlay

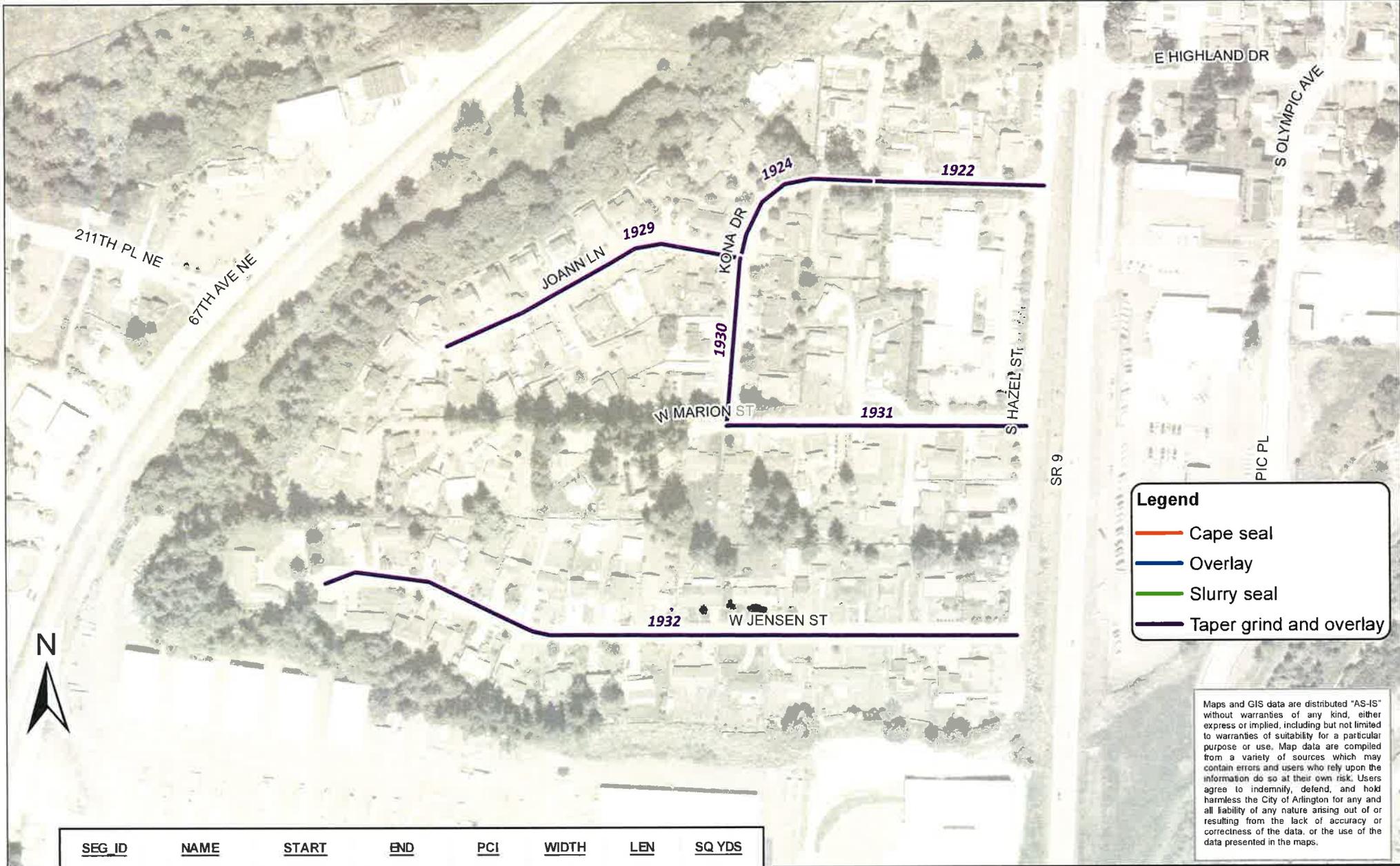
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SEG_ID	NAME	START	END	PCI	WIDTH	LEN	SQ YDS
1620	38TH DR NE	175TH PL NE	174TH PL NE	27	23	407	1,041
1605	39TH DR NE	TOTEM PARK LN	175TH PL NE	38	23	373	953
1611	177TH PL NE	36TH DR NE	38TH DR NE	36	23	631	1,614
1612	TOTEM PARK LN	39TH DR NE	TOTEM PARK LN	53	23	321	821
1613	TOTEM PARK LN	DEAD END	TOTEM PARK LN	43	23	108	277
1615	36TH DR NE	177TH PL NE	176TH ST NE	34	23	270	691
1617	38TH DR NE	177TH PL NE	176TH ST NE	33	23	284	727
1618	39TH DR NE	DEAD END	176TH PL NE	54	23	350	896
1619	TOTEM PARK LN	TOTEM PARK LN	DEAD END	41	23	101	257
1632	TOTEM PARK LN	TOTEM PARK LANE	177TH PL NE	17	23	258	660
1633	TOTEM PARK LN	TOTEM PARK LN	TOTEM PARK LN	35	23	274	701
<b>Total</b>							<b>8,636</b>

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City of Arlington  
**Overlay Plan**  
 for Roads East of Smokey Pt Blvd

Sheet:	2	Scale:	1 inch = 250 feet
Date:	10/21/2014	File:	EastSPBGrind8.5x11_14



**Legend**

- Cape seal
- Overlay
- Slurry seal
- Taper grind and overlay

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SEG ID	NAME	START	END	PCI	WIDTH	LEN	SQ YDS
1922	W FLORENCE ST	HILLCREST DR	S HAZEL ST	44	18	329	658
1924	KONA DR	JOANN LN	HILLCREST DR	58	40	334	1,486
1929	JOANN LN	DEAD END	KONA DR	57	30	607	2,025
1930	KONA DR	JOANN LN	W MARION ST	45	40	318	1,415
1931	W MARION ST	KONA DR	S HAZEL ST	65	40	569	2,531
1932	W JENSEN ST	DEAD END	S HAZEL ST	31	40	1,341	5,960
						<b>Total</b>	<b>14,074</b>

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City of Arlington

**Taper Grind & Overlay Plan  
for Jensen/Hazel Area**

Sheet:	1	Scale:	1 inch = 250 feet
Date:	10/21/2014	File:	JensenGrind8.5x11_14

**Legend**

- Cape seal
- Overlay
- Slurry seal
- Taper grind and overlay

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<u>SEG_ID</u>	<u>NAME</u>	<u>START</u>	<u>END</u>	<u>PCI</u>	<u>WIDTH</u>	<u>LEN</u>	<u>SQ YDS</u>
2030	N FRENCH AVE	E 3RD ST	E 2ND ST	55	40	437	1,943
1998	N FRENCH AVE	E 4TH ST	E 3RD ST	54	40	426	1,892
<b>Total</b>							<b>3,835</b>

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City of Arlington

**Slurry Seal Plan  
for French Ave (2 blocks)**

Sheet:	3	Scale:	1 inch = 142 feet
Date:	10/20/2014	File:	FrenchAveSlurry8.5x11_14

# Arlington 2015 Pavement Preservation Plan Budget

<b>Task Item</b>	<b>Estimate</b>
Engineering/Bid Docs	\$ -----
Geotech/Testing	\$ 18,250
Cape Seal Work	\$ 320,067
Slurry Seal Work	\$ 149,914
Overlay/Repair Work	\$ 402,275
Striping/Crosswalks	\$ 26,760
ADA Ramps	\$ 47,350
<u>Contingency (3%)</u>	<u>\$ 28,938</u>
<b>TOTAL</b>	<b>\$ 993,554</b>

<b>Source</b>	<b>Amount</b>	<b>Comment</b>
PSRC Grant	\$ 134,965	Grant from PSRC for Sm Pt Blvd Cape Seal
Water Utility	\$ 65,000	Water utility contribution for pvmnt repair
<u>TBD Funds-2015</u>	<u>\$ 793,589</u>	
<b>TOTAL</b>	<b>\$ 993,554</b>	

# Arlington 2015 Pavement Preservation Plan - Cape Seal

## CAPE SEAL PAVEMENT PRESERVATION - 3/8" CHIP WITH FOG SEAL OVER TOP

<u>ROAD INFO</u>	<b>SPB</b>	<b>180th</b>	<b>47th</b>
Preservation Type	3/8" Cape Seal	3/8" Cape Seal	3/8" Cape Seal
Area (SY)	18,722	9,358	9,842
Length (FT)		3,103	3,163
Road Segments	1049-1050-1051	1191-1190-1535 1532-1484-1531	1463-1510 1509-1511

<u>GENERAL COST</u>	<b>UNIT</b>	<b>QTY</b>	<b>\$/UNIT</b>	<b>TOTAL</b>
BOND EXTENSION	EA	1	\$ 750.00	\$ 750.00
MOB/DEMOB (8%)	EA	1	\$ 0.00	\$ 19,169.92
TRAFFIC CONTROL	LS	1	\$ 3,000.00	\$ 3,000.00
SPCC	LS	1	\$ 750.00	\$ 750.00
INLET PROTECTION	EA	67	\$ 75.00	<u>\$ 5,025.00</u>
<b>SUB-TOTAL GENERAL</b>				<b>\$ 28,694.92</b>

### ROAD PRESERVATION QUANTITIES

Cape Seal (SY)	18,722	15,716	9,130
Pavement Repair (SY) <i>by others</i>	200	200	200
Crack Seal (LF) <i>by others</i>	2,000	2,500	2,500

### UNIT COST EST

Cape Seal (\$/SY)	\$5.50	\$5.50	\$5.50
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### PRESERVATION COST

Cape Seal Contract	<b>\$102,971.00</b>	<b>\$86,438.00</b>	<b>\$50,215.00</b>
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<b>General</b>	\$28,694.92
<b>Smokey Pt Blvd</b>	\$102,971.00
<b>188th Sreet</b>	\$86,438.00
<b>47th Ave</b>	\$50,215.00
<b>Bid/Design/Test</b>	\$10,000.00
<b>Conting (15%)</b>	\$41,747.84
<b>Subtotal</b>	\$320,066.76
<b>Less PSRC Grant</b>	<u>\$134,965.00</u>
<b>TOTAL TBD Funds</b>	<b>\$185,101.76</b>

# Arlington 2015 Pavement Preservation - Slurry Seal

GENERAL CHARGES	UNIT	QTY	\$/UNIT	TOTAL	COMMENT
BOND EXTENSION	EA	1	\$ 750.00	\$ 750.00	<i>if needed</i>
MOB/DEMOB	EA	1	\$ -	\$ 8,826.72	<i>8% of construction cost</i>
TRAFFIC CONTROL	LS	1	\$ 2,500.00	\$ 2,500.00	
SPCC	LS	1	\$ 750.00	\$ 750.00	
INLET PROTECTION	EA	67	\$ 75.00	\$ 5,025.00	
<b>SUB-TOTAL GENERAL</b>				<b>\$ 17,851.72</b>	

AREA	UNIT	QTY	\$/UNIT	TOTAL	COMMENTS
<b>FRENCH AVE (left over from 2014), SEG 1998 &amp; 2030</b>					
PAVEMENT REPAIR/HAUL	SY	0	\$ 5.00	\$ -	<i>Completed in 2014</i>
APSHALT FOR REPAIR	TON	0	\$ 125.00	\$ -	<i>Completed in 2014</i>
CRACK SEAL	LF	0	\$ 3.00	\$ -	<i>Completed in 2014</i>
SLURRY SEAL	SF	3835	\$ 2.50	\$ 9,587.50	<i>from 3rd Ave to 1st Ave</i>
<b>SUBTOT FRENCH AVE</b>				<b>\$ 9,587.50</b>	

<b>178TH NEIGHBORHOOD, SEG</b>					
PAVEMENT REPAIR/HAUL	SY	0	\$ 5.00	\$ -	<i>Completed in 2014</i>
APSHALT FOR REPAIR	TON	0	\$ 125.00	\$ -	<i>Completed in 2014</i>
CRACK SEAL	LF	0	\$ 3.00	\$ -	<i>Completed in 2014</i>
SLURRY SEAL	SF	17,680	\$ 2.50	\$ 44,200.00	
<b>SUB-TOT 178TH</b>				<b>\$ 44,200.00</b>	

<b>179TH NEIGHBORHOOD, SEG</b>					
PAVEMENT REPAIR/HAUL	SY	0	\$ 5.00	\$ -	<i>Completed in 2014</i>
APSHALT FOR REPAIR	TON	0	\$ 125.00	\$ -	<i>Completed in 2014</i>
CRACK SEAL	LF	0	\$ 3.00	\$ -	<i>Completed in 2014</i>
SLURRY SEAL	SF	17,205	\$ 2.50	\$ 43,012.50	
<b>SUB-TOT 179TH</b>				<b>\$ 43,012.50</b>	

<b>176TH NEIGHBORHOOD, SEG</b>					
PAVEMENT REPAIR/HAUL	SY	0	\$ 5.00	\$ -	<i>By Other Contract</i>
APSHALT FOR REPAIR	TON	0	\$ 125.00	\$ -	<i>By Other Contract</i>
CRACK SEAL	LF	0	\$ 3.00	\$ -	<i>By Other Contract</i>
SLURRY SEAL	SF	0	\$ 2.50	\$ -	
<b>SUB-TOT 176TH</b>				<b>\$ -</b>	

<b>175TH/174TH NEIGHBORHOOD, Seg 1638, 1623, 1639, 1604, 1602, 1603, 1640, 1625, &amp; 1621</b>					
PAVEMENT REPAIR/HAUL	SY	0	\$ 5.00	\$ -	<i>By Other Contract</i>
APSHALT FOR REPAIR	TON	0	\$ 125.00	\$ -	<i>By Other Contract</i>
CRACK SEAL	LF	0	\$ 3.00	\$ -	<i>By Other Contract</i>
SLURRY SEAL	SF	6,767	\$ 2.00	\$ 13,534.00	
<b>SUB-TOT 175TH /174TH</b>				<b>\$ 13,534.00</b>	

Subtotal \$ **128,185.72**  
 Bidding/Design/testing \$ **2,500.00**  
 Conting (15%) \$ **19,227.86**

<b>GRAND TOTAL</b>	<b>\$ 149,913.58</b>
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# Arlington 2015 Pavement Preservation Plan Overlay, Crack Seal, Pre-Level

## Pricing Estimates

ITEM	UNIT	PRICE	ITEM	UNIT	PRICE
Asphalt Grind/Haul	SY	\$ 5.00	Asphalt Paving	TON	\$ 110.00
Asphalt Patch	TON	\$ 175.00	Crack Sealing	LF	\$ 2.50
Pre-level	TON	\$ 110.00	Taper Grind/Haul	SY	\$ 3.50

## Various Asphalt Repair - Asphalt Grind/pave, Crack Seal & Pre Level

LOCATION	ASPHALT GRIND/HAUL		ASPHALT PATCH		CRACK SEALING		PRE-LEVEL	
	(SY)	(\$)	(Ton)	(\$)	(LF)	(\$)	(Ton)	(\$)
176th Neighborhood	200	\$ 1,000	25	\$ 4,375	3,000	\$ 7,500	50	\$ 5,500
Smokey Point Blvd	200	\$ 1,000	25	\$ 4,375	2,000	\$ 5,000	50	\$ 5,500
188th St	200	\$ 1,000	25	\$ 4,375	2,500	\$ 6,250	50	\$ 5,500
47th Ave	200	\$ 1,000	25	\$ 4,375	2,500	\$ 6,250	50	\$ 5,500
<b>TOTAL</b>		<b>\$ 4,000</b>		<b>\$ 17,500</b>		<b>\$ 25,000</b>		<b>\$ 22,000</b>

<b>TOTAL VARIOUS ASPHALT REPAIR:      \$ 68,500</b>
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## Jensen Area - Overlay Plan: spot grinding & prelevel with 1.5" overlay

ROAD NAME	SEG ID	START	END	LEN	SQ YDS	COMMENTS
JENSEN ST	1932	S HAZEL ST	W END	1,341	5,960	taper grind both sides
W MARION ST	1931	S HAZEL ST	KONA DR	569	2,531	
FLORANCE	1922	S HAZEN	HILLCREST	369	658	
KONA	1924-1930	HILLCREST	W MARION	652	2,901	taper grind both sides
JOANN LN	1929	195TH ST NE	188th ST NE	607	2,025	taper grind both sides
		<b>Total</b>		<b>3,538</b>	<b>14,075</b>	

ITEM	QTY	UNITS	Unit Price	Total	
Crack Sealing	0	LF	\$ 2.50	\$ -	
Pvmt Repair-Grind/Haul	0	SY	\$ 5.00	\$ -	
Pvmt Repair-Asphalt Pave	0	TON	\$ 175.00	\$ -	
Taper Grind & Haul Off	4,044	SY	\$ 3.50	\$ 14,155.56	7-ft wide taper grind
Pre-level	45	TON	\$ 110.00	\$ 4,950.00	
Overlay 1.5"	14,075	SY	\$ 9.28	\$ 130,633.59	
Adjust Utilities	20	EA	\$ 600.00	\$ 12,000.00	
Traffic Control	1	LS	\$ 3,500.00	\$ 3,500.00	
		<b>Jensen Area Subtotal</b>		<b>\$ 165,239.15</b>	

<b>TOTAL JENSEN AREA:      \$      165,239.15</b>
<b>PRICE PER SY:                      \$11.74</b>

# Arlington 2015 Pavement Preservation Plan Overlay, Crack Seal, Pre-Level

**West Arlington Area - Overlay Plan: Minor spot grinding with 1.5" overlay on select road segments**

<u>ROAD NAME</u>	<u>SEG ID</u>	<u>START</u>	<u>END</u>	<u>LEN</u>	<u>SQ YDS</u>	
36TH DRIVE	1615	176TH PL	177TH PL	270	691	
177th PLACE	1611	36TH DR	38TH DR	631	1,614	
38TH DRIVE	1617	177TH PL	176TH PL	284	727	
39TH DRIVE	1618	DEAD END	176TH PL	350	896	
39TH DRIVE	1605	176TH PL	SEG 1634	450	1,150	Add 500' 2-side taper grind
TOTEM PK LANE	1612	39TH DR	SEG 1633	321	821	
TOTEM PK LANE	1633	SEG 1612	SEG 1632	274	701	
TOTEM PK LANE	1632	S HAZEN	HILLCREST	258	660	
TOTEM PK CUL DE SAC	1619	TOTEM PK	END	101	257	
TOTEM PK CUL DE SAC	1613	TOTEM PK	END	108	277	
38TH DRIVE	1620	174TH PL	175TH PL	407	1,041	
<b>Total</b>				<b>3,454</b>	<b>8,835</b>	

<u>ITEM</u>	<u>QTY</u>	<u>UNITS</u>	<u>Unit Price</u>	<u>Total</u>
Crack Sealing	0	LF	\$ 2.50	\$ -
Pvmt Repair-Grind/Haul	0	SY	\$ 5.00	\$ -
Pvmt Repair-Asphalt Pave	0	TON	\$ 175.00	\$ -
Taper Grind & Haul Off	778	SY	\$ 3.50	\$ 2,722.22
PAVE 1.5"	8,835	SY	\$ 9.28	\$ 81,999.84
Pre-level	45	TON	\$ 110.00	\$ 4,950.00
Adjust Utilities	20	EA	\$ 700.00	\$ 14,000.00
Traffic Control	1	LS	\$ 3,500.00	\$ 3,500.00
W Arlington Total				<b>\$ 107,172.07</b>

<b>TOTAL W ARLINGTON AREA:</b>	<b>\$ 107,172.07</b>
<b>PRICE PER SY:</b>	<b>\$12.13</b>

<u>Summary of Overlay &amp; Repair Program</u>	
Asphalt Repair Costs	\$ 68,500.00
Jensen Area	\$ 165,239.15
West Arlington	\$ 107,172.07
Subtotal	\$ 340,911.22
Bidding/Design/Testing	\$ 10,227.34
Contingency (15%)	\$ 51,136.68

<b>Total Overlay &amp; Repair Cost Estimate</b>	<b>\$ 402,275.23</b>
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# Arlington 2015 Pavement Preservation Plan Striping, ADA Ramps, and Misc Geotechnical Work

## PAVEMENT MARKING AND STRIPING

### STRIPING UNIT PRICE ESTIMATES

ITEM	UNIT	PRICE/UNIT	ITEM	UNIT	PRICE/UNIT
Painted Lane Line	LF	\$ 0.50	Plastic Stop Bar	LF	\$ 1.50
Painted Fog Line	LF	\$ 0.50	Plastic Crosswk (Zebra)	LF	\$ 12.50

### STRIPING WORK

STRIPING WORK	Lane Line		Fog Line		Stop Bar		Crosswalk	
	LF	\$	LF	\$	LF	\$	LF	\$
French Ave	1,200	\$ 600.00	0	\$ 0.00	0	\$ 0.00	200	\$ 2,500.00
179th Neighborhood	200	\$ 100.00	0	\$ 0.00	30	\$ 45.00	0	\$ 0.00
178th Neighborhood	1,100	\$ 550.00	2,200	\$ 1,100.00	30	\$ 45.00	0	\$ 0.00
176th/175th Nbrhd	400	\$ 200.00	0	\$ 0.00	45	\$ 67.50	0	\$ 0.00
174th Neighborhood	200	\$ 100.00	0	\$ 0.00	30	\$ 45.00	0	\$ 0.00
Smokey Point Blvd	2,400	\$ 1,200.00	4,800	\$ 2,400.00	0	\$ 0.00	0	\$ 0.00
188th St	3,500	\$ 1,750.00	7,000	\$ 3,500.00	15	\$ 22.50	0	\$ 0.00
47th Ave	3,500	\$ 1,750.00	7,000	\$ 3,500.00	15	\$ 22.50	0	\$ 0.00
Jensen/Marion/Kona	<u>2,400</u>	<u>\$ 1,200.00</u>	<u>0</u>	<u>\$ 0.00</u>	<u>48</u>	<u>\$ 72.00</u>	<u>0</u>	<u>\$ 0.00</u>
<b>TOTAL</b>	<b>14,900</b>	<b>\$ 7,450.00</b>	<b>21,000</b>	<b>\$ 10,500.00</b>	<b>213</b>	<b>\$ 319.50</b>	<b>200</b>	<b>\$ 2,500.00</b>

**SUB-TOTAL STRIPING** \$20,769.50

Bid/Design/Testing \$2,500.00

Conting (15%) \$3,490.43

**TOTAL ESTIMATE** **\$26,759.93**

## ADA Ramps

ROAD NAME	ADA Ramp - Retrofit		ADA Ramp - New		Total
	<u>Qty (EA)</u>	<u>\$/EA</u>	<u>Qty (EA)</u>	<u>\$/EA</u>	<u>\$</u>
French Ave	8	\$2,500.00	2	\$2,000.00	\$24,000.00
Jensen/Marion/Kona	6	\$2,500.00	0	\$2,000.00	<u>\$15,000.00</u>
<b>SUB-TOTAL ADA RAMPS</b>					<b>\$ 39,000.00</b>
Bid/Design/Testing					\$ 2,500.00
Conting (15%)					\$ 5,850.00
<b>TOTAL ESTIMATE</b>					<b>\$ 47,350.00</b>

## GEOTECHNICAL INVESTIGATION WORK

The below listed work will be contracted through a Consultant/Engineer for geotechnical investigation and engineering services. This work is directly related to the preservation of roadways listed in the TBD adopted Pavement Management Program. All listed work is directly related to preservation of the road segments identified in the TBD adopted pavement preservation program.

ROAD NAME/DEFICIENCY	SEGMENT ID	COST EST
211th Street Depression	xxxxx	\$ 1,500.00
Settlement at Portage Crk Culvert	1050	\$ 2,250.00
Settlement on Tviet Rd	xxxxx	<u>\$ 3,500.00</u>
<b>TOTAL</b>		<b>\$ 7,250.00</b>