



AGENDA ITEM SUMMARY

MEETING DATE: May 3, 2022

ITEM TITLE: Consideration of Contract Award for Street Improvements

ITEM SUMMARY: The Town advertised for bids to perform year one of a ten-year Street Capital Improvement on March 16. No bids were received, and the project was readvertised. A bid was received from Fred Smith Company on April 15 for \$916,000.

In addition to the milling and repaving of Soundview Trail, the project includes the repair, patching, and/or rehabilitation of the following streets:

<u>STREET NAME</u>	<u>BEGINNING STREET</u>	<u>END DESCRIPTION</u>
HICKORY TRL	NC 12	DEAD END
HILLCREST DR	SEA OATS TRL	HICKORY TRL
TRINITIE TRL	CHICHAUK TRL	EAGLES NEST LN
HILLCREST DR	HICKORY TRL	E DOGWOOD TRL
S DOGWOOD TRL	GINGUITE TRL	TEAL CT
S DOGWOOD TRL	YAUPON TRL	FAIRWAY DR
S DOGWOOD TRL	FAIRWAY DR	GINGUITE TRL
S DOGWOOD TRL	E DOGWOOD TRL	YAUPON TRL
HAPPY INDIAN LN	HIGH DUNE LOOP	DEAD END
SOUNDVIEW TRL	SEA OATS TRL	NORTH DUNE LOOP
6TH AVE	NC 12	6TH AVE
HIGH DUNE LOOP	SPINDRIFT TRL	SPINDRIFT TRL
4TH AVE	NC 12	4TH AVE
12TH AVE	NC 12	12TH AVE
6TH AVE	DEAD END	DEAD END
7TH AVE	NC 12	7TH AVE
GRAVEY POND LN	DEAD END	DEAD END
TURTLE POND CT	POTESKEET TRL	DEAD END
WOODLAND DR	E DOGWOOD TRL	N WOODLAND DR
MIZZENMAST LN	SEA OATS LN	DEAD END

Full Depth Patching (FDP) is accomplished by removing the existing pavement generally a minimum of 7 feet wide through its "full depth". Depths of 6 to 8 inches are anticipated for use in these CIP options. The existing material is removed utilizing a milling machine for expedited construction and clean "cuts". New asphalt is placed back into the excavation in compacted lifts, reconstructing the pavement. If unstable subgrade conditions are encountered, this can be mitigated by undercutting the excavation and adding additional asphalt, graded aggregate base or open graded stone, dependent on conditions and contract specifications. FDP extends the useful life of the pavement by focusing on rehabilitating isolated structural failures. This treatment is frequently utilized on areas of fatigue cracking and

potholes but may also be effective on rutting and isolated cracking or high intensity transverse cracking. FDP is not intended to rebuild the entire roadway and alternative methods of rehabilitation or reconstruction should be considered once FDP quantities exceed 25 – 50% of the roadway. Mill patching involves a milling machine and milling out 2-2.5 inches of asphalt and replacing it or saw cutting the same area and removing the asphalt with a back hoe to replace it. Surface Patching includes shallower (surface) patching when distresses are present and are located primarily in the near surface (2 inches) of the pavement.

STAFF RECOMMENDATION: Attached you will find the Engineers “Bid Review & Recommendation Letter” for the project. The bid falls within the budgeted amount for street improvements in this year’s budget. Staff recommends award of the bid.

REQUESTED ACTION: A motion to authorize the Town Manager to enter a contract with Fred Smith Company to perform street pavement improvements in an amount not to exceed \$1,053,400, which includes a 15% contingency.

ATTACHMENTS: Memorandum from SEPI Engineering (Bid Review @ Recommendation Letter)
 Spreadsheet of street segments receiving work
 Project Maps



Date: April 28, 2022

Memorandum To: Cliff Ogburn, Town Manager
Town of Southern Shores

From: Chris Corriher, P. E.
Project Manager

SUBJECT: Bid Review & Recommendation Letter for Project 22PAVE

Dear Mr. Ogburn,

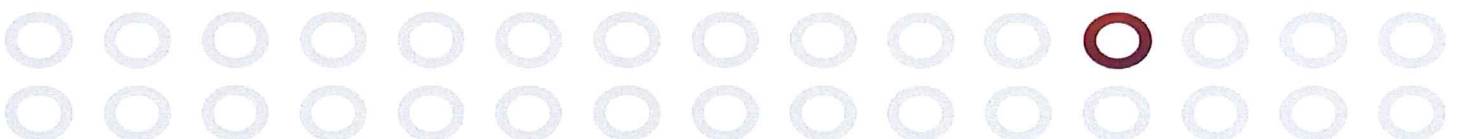
Please find attached a Bid Tabulation for **Project 22PAVE** that was advertised on March 31, 2022 with bids opened on April 15, 2022 at 10:00 a. m. SEPI have reviewed the bid(s) received. We are recommending award of the bid received for the following reasons:

1. The bid received was 8.46% above the Engineer's estimate.
2. When considering recent asphalt price volatility, the amount bid appears to be in line with current market trends.
3. We have investigated and concluded that further revision to the contract such as extension of the contract time or advertising the project later in the year may have negligible if not adverse impact on the bid results due to asphalt price uncertainty.

Although we are recommending award of the contract, SEPI does offer the following options for your information and consideration if needed:

1. Option 1 – Readvertise project with modifications
 - a. Extend contract time from six (6) months to a minimum of one (1) year
 - b. Immediately readvertise project, but extend completion date to June 30, 2023.
2. Option 2 – Separate the patching & paving line items and procure as follows
 - a. Advertise a contract with patching line items only
 - b. Advertise a contract with milling and resurfacing line items only
3. Option 3 – Pursue a collaboration with NCDOT to accomplish work
 - a. Work with NCDOT to secure a supplemental agreement with NCDOT to perform work as a part of their recently awarded contract(s) in your region. This can be all line items or just the mill and overlay line items
 - b. NCDOT, typically has on-call patching contracts. If more desirable, patching line items may be best achieved under this type contracting mechanism.

Please contact me at your convenience if you have questions regarding our award recommendation or to discuss any of the options.



BID TABULATION

PROJECT NUMBER:	22PAVE
COUNTY:	DARE
DESCRIPTION:	STREET IMPROVEMENT PROJECT
DATE OF ADVERTISEMENT:	March 31, 2022
BID OPENING:	April 15, 2022 AT 10:00 a. m.

				Engineer's Estimate		Fred Smith	
Item #	Item	Qty	Unit	Unit Cost	Line Item Total	Unit Cost	Line Item Total
1	Mobilization	1	LS	\$75,000.00	\$75,000.00	\$67,500.00	\$67,500.00
2	Lump Sum Traffic Control**	1	LS	\$100,000.00	\$100,000.00	\$64,525.00	\$64,525.00
3	Undercut Excavation	50	CY	\$100.00	\$5,000.00	\$125.00	\$6,250.00
4	Select Granular Material	50	CY	\$125.00	\$6,250.00	\$175.00	\$8,750.00
5	Geotextile for Soil Stabilization	200	SY	\$8.00	\$1,600.00	\$10.00	\$2,000.00
6	Liquid Asphalt for Plant Mix	95	TON	\$670.00	\$63,650.00	\$675.00	\$64,125.00
7	Patching Existing Asphalt – Mill Patching with 2" – 3" I19.0B	400	TON	\$385.00	\$154,000.00	\$450.00	\$180,000.00
8	Patching Existing Asphalt – Full Depth Patching with 4"-6" B25.0C	670	TON	\$385.00	\$257,950.00	\$450.00	\$301,500.00
9	Asphalt Surface Course - I9.5B – 1.5" - 2" depth	740	TON	\$175.00	\$129,500.00	\$200.00	\$148,000.00
11	Milling Asphalt Pavement (2" to 2.5" depth)	4050	SY	\$10.00	\$40,500.00	\$14.00	\$56,700.00
12	Adjustment of Manholes	2	EA	\$350.00	\$700.00	\$175.00	\$350.00
13	Adjustment of Meter Boxes or Valve Boxes	2	EA	\$200.00	\$400.00	\$150.00	\$300.00
14	Incidental Stone Base (ABC)	100	TON	\$100.00	\$10,000.00	\$160.00	\$16,000.00
TOTAL					\$844,550.00		\$916,000.00

rev 4.26.22

Object Id	RoadName	Repair Type	Length	Width	Area SY	Full Depth Patch	Mill Patch Tons	Notes
2	12th Ave	Full depth	30	6	20.0	4.4	0	Root issue
3	12th Ave	Full depth	37	29	119.2	26.2	0	Repair intersection
4	12th Ave	Mill patch	37	20	82.2	0.0	4.5	
5	12th Ave T	Mill patch	51	2	11.3	0.0	1.6	Edge patch
6	12th Ave T	Mill patch	18	7	14.0	0.0	1.9	Across road
7	12th Ave	Full depth	12	4	5.3	1.5	0	Roots
16	Sound view	Full depth	12	3	4.0	1.1	0	Radius repair
23	Sound view	Full depth	60	30	200.0	55.0	0	Intersection repair
24	Sound view	Full depth	28	10	31.1	8.6	0	Radius repair
25	Hillcrest Dr	Full depth	25	6	16.7	4.6	0	Edge cracking
26	Hillcrest	Mill patch	20	3	6.7	0.0	1	Crack repair
27	Hillcrest	Mill patch	50	20	111.1	0.0	15.3	Patch entire road
28	Hillcrest	Mill patch	20	4	8.9	0.0	1.2	Crack repair
29	Hillcrest	Mill patch	28	6	18.7	0.0	2.6	
30	Hillcrest	Mill patch	70	8	62.2	0.0	8.6	
31	Hillcrest	Full depth	80	6	53.3	14.7	0	Edge cracking
32	Hillcrest	Full depth	100	6	66.7	18.3	0	Patch in middle road
33	Hillcrest	Full depth	100	18	200.0	55.0	0	Repair entire road
34	Hillcrest	Full depth	80	6	53.3	14.7	0	Repair road center
35	Hillcrest	Full depth	15	4	6.7	1.8	0	
36	Hillcrest	Mill patch	40	6	26.7	0.0	3.7	
37	Hillcrest	Full depth	80	6	53.3	14.7	0	Center road
38	Hillcrest	Full depth	55	6	36.7	10.1	0	Repair patch
39	Hillcrest	Full depth	60	6	40.0	11.0	0	Center road
42	Hickory	Full depth	15	12	20.0	5.5	0	Patching at intersection Hwy 12
43	Hickory	Mill patch	45	20	100.0	0.0	13.8	Patch at intersection
44	4th	Full depth	12	12	16.0	4.4	0	Patch repair in radius at T
45	4th	Full depth	15	3	5.0	1.4	0	
46	4th	Mill patch	10	3	3.3	0.0	0.5	Edge repair
47	6th Ave	Full depth	50	6	33.3	9.2	0	Repair radii at T intersection
48	6th	Mill patch	30	24	80.0	0.0	11	Near intersection
49	6th	Full depth	28	15	46.7	12.8	0	Patch at intersection, turning radii

Object Id	RoadName	Repair Type	Length	Width	Area SY	Full Depth Patch	Mill Patch Tons	Notes
50	7th	Full depth	15	30	50.0	13.8	0	Repair radii at T
51	7th	Mill patch	10	3	3.3	0.0	0.5	Edge cracking
52	7th	Mill patch	15	4	6.7	0.0	0.9	Edge cracking
53	7th	Full depth	8	4	3.6	1.0	0	Root repair
54	Woodland Trl	Mill patch	80	15	133.3	0.0	18.3	Repairs at Y intersection
55	Woodland	Full depth	20	8	17.8	4.9	0	Full depth repair at Y intersection
56	Woodland	Mill patch	30	18	60.0	0.0	8.2	
57	S Dogwood	Full depth	90	4	40.0	11.0	0	Edge cracking
58	S Dogwood	Mill patch	20	4	8.9	0.0	1.2	Edge failure
59	S Dogwood	Mill patch	18	5	10.0	0.0	1.4	Edge cracking
60	S Dogwood	Mill patch	100	6	66.7	0.0	9.2	Town marked
61	S Dogwood	Mill patch	60	3	20.0	0.0	2.8	Edge
62	S Dogwood	Mill patch	39	3	13.0	0.0	1.8	Edge
63	S Dogwood	Mill patch	120	3	40.0	0.0	5.5	Edge
64	S Dogwood	Mill patch	30	3	10.0	0.0	1.4	
65	S Dogwood	Full depth	50	18	100.0	27.5	0	Town marked
66	S Dogwood	Full depth	300	6	200.0	55.0	0	Town marked edge repair, need lateral support
67	S Dogwood	Mill patch	60	18	120.0	0.0	16.5	
68	S Dogwood	Mill patch	40	4	17.8	0.0	2.4	
69	S Dogwood	Mill patch	15	4	6.7	0.0	0.9	
70	S Dogwood	Mill patch	100	4	44.4	0.0	6.1	
71	S Dogwood	Full depth	30	4	13.3	3.7	0	
72	S Dogwood	Mill patch	30	6	20.0	0.0	2.8	
73	S Dogwood	Full depth	80	6	53.3	14.7	0	
74	S Dogwood	Full depth	10	6	6.7	1.8	0	
75	S Dogwood	Full depth	40	6	26.7	7.3	0	
76	S Dogwood	Full depth	30	4	13.3	3.7	0	
77	S Dogwood	Full depth	20	6	13.3	3.7	0	
78	S Dogwood	Full depth	40	6	26.7	7.3	0	
79	S Dogwood	Mill patch	60	6	40.0	0.0	5.5	
80	S Dogwood	Full depth	20	6	13.3	3.7	0	
81	S Dogwood	Full depth	30	6	20.0	5.5	0	

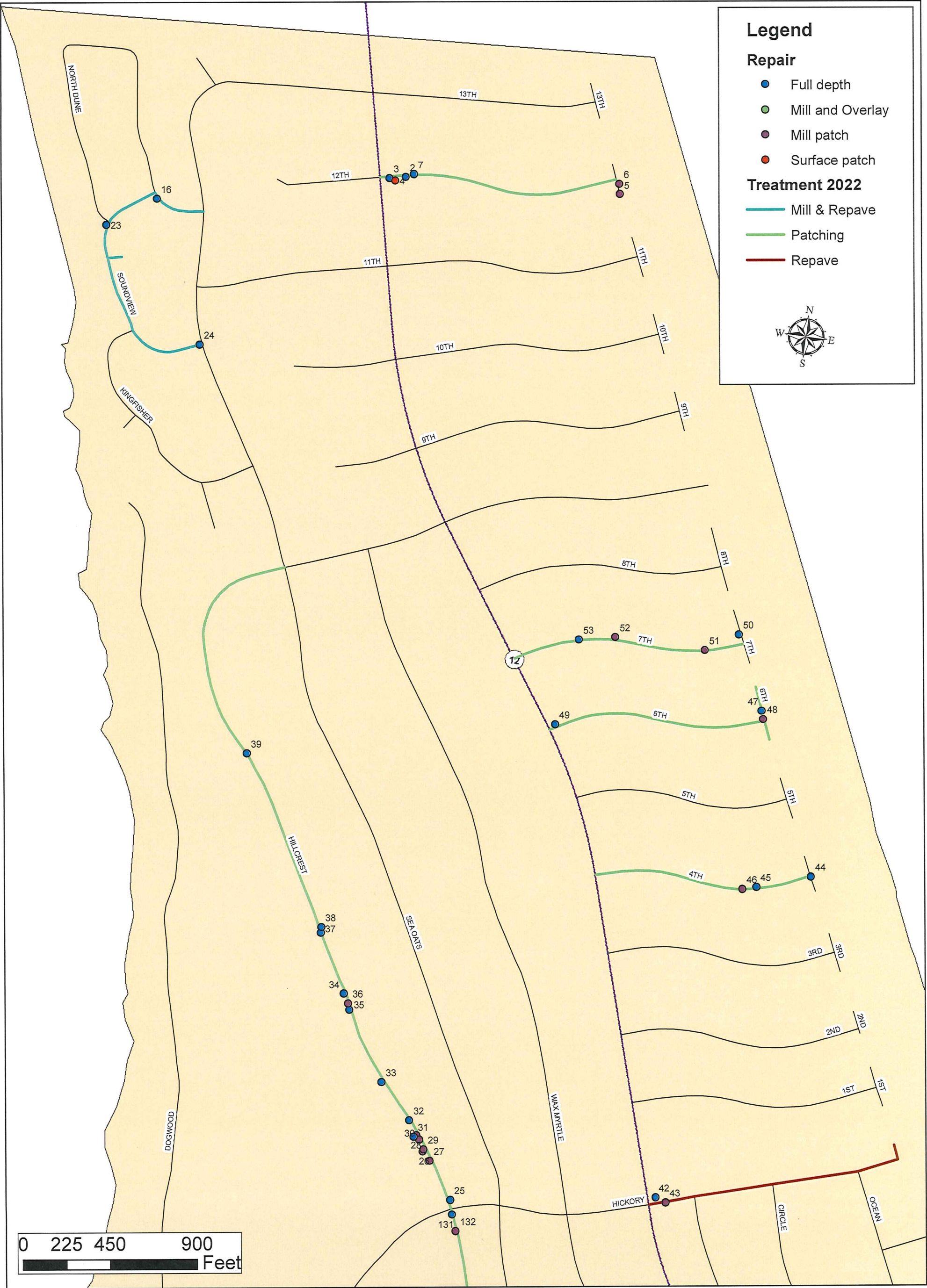
Object Id	RoadName	Repair Type	Length	Width	Area SY	Full Depth Patch	Mill Patch Tons	Notes
82	S Dogwood	Full depth	30	6	20.0	5.5	0	
83	S Dogwood	Full depth	60	6	40.0	11.0	0	
84	S Dogwood	Full depth	50	6	33.3	9.2	0	
85	S Dogwood	Full depth	50	6	33.3	9.2	0	
86	S Dogwood	Full depth	10	6	6.7	1.8	0	Root
87	S Dogwood	Mill patch	30	4	13.3	0.0	1.8	
88	S Dogwood	Mill patch	6	6	4.0	0.0	0.6	
89	S Dogwood	Mill patch	10	10	11.1	0.0	1.5	
90	S Dogwood	Mill patch	6	6	4.0	0.0	0.6	
91	S Dogwood	Full depth	6	6	4.0	1.1	0	Root
92	S Dogwood	Full depth	20	4	8.9	2.4	0	Edge
93	S Dogwood	Mill patch	30	4	13.3	0.0	1.8	
94	S Dogwood	Mill patch	30	4	13.3	0.0	1.8	Edge
95	S Dogwood	Mill patch	30	4	13.3	0.0	1.8	Edge
96	S Dogwood	Full depth	30	18	60.0	16.5	0	
97	S Dogwood	Full depth	80	6	53.3	14.7	0	
98	S Dogwood	Full depth	150	10	166.7	45.8	0	
99	S Dogwood	Overlay patch	200	20	444.4	0.0	0	Full Depth Patch, mill 2", pave back 4" @ Golf Clubhouse
100	S Dogwood	Full depth	50	4	22.2	6.1	0	
101	S Dogwood	Full depth	20	6	13.3	3.6	0	Root
102	S Dogwood	Full depth	30	4	13.3	3.6	0	Edge
104	Trinitie	Mill patch	40	24	106.7	0.0	14.7	
105	Trinitie	Mill patch	14	6	9.3	0.0	1.3	
106	Trinitie	Full depth	50	6	33.3	9.2	0	
107	Trinitie	Full depth	35	6	23.3	6.4	0	
108	Trinitie	Mill patch	6	6	4.0	0.0	0.6	
109	Happy Indian	Full depth	30	6	20.0	5.5	0	Roots
110	Happy Indian	Mill patch	30	8	26.7	0.0	3.7	
111	Happy Indian	Mill patch	40	16	71.1	0.0	9.8	
112	Happy Indian	Mill patch	30	4	13.3	0.0	1.8	Edge
113	High Dune	Mill patch	30	6	20.0	0.0	2.8	
114	High Dune	Mill patch	40	2	8.9	0.0	1.2	Edge

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Town of Southern Shores

Project # 22PAVE

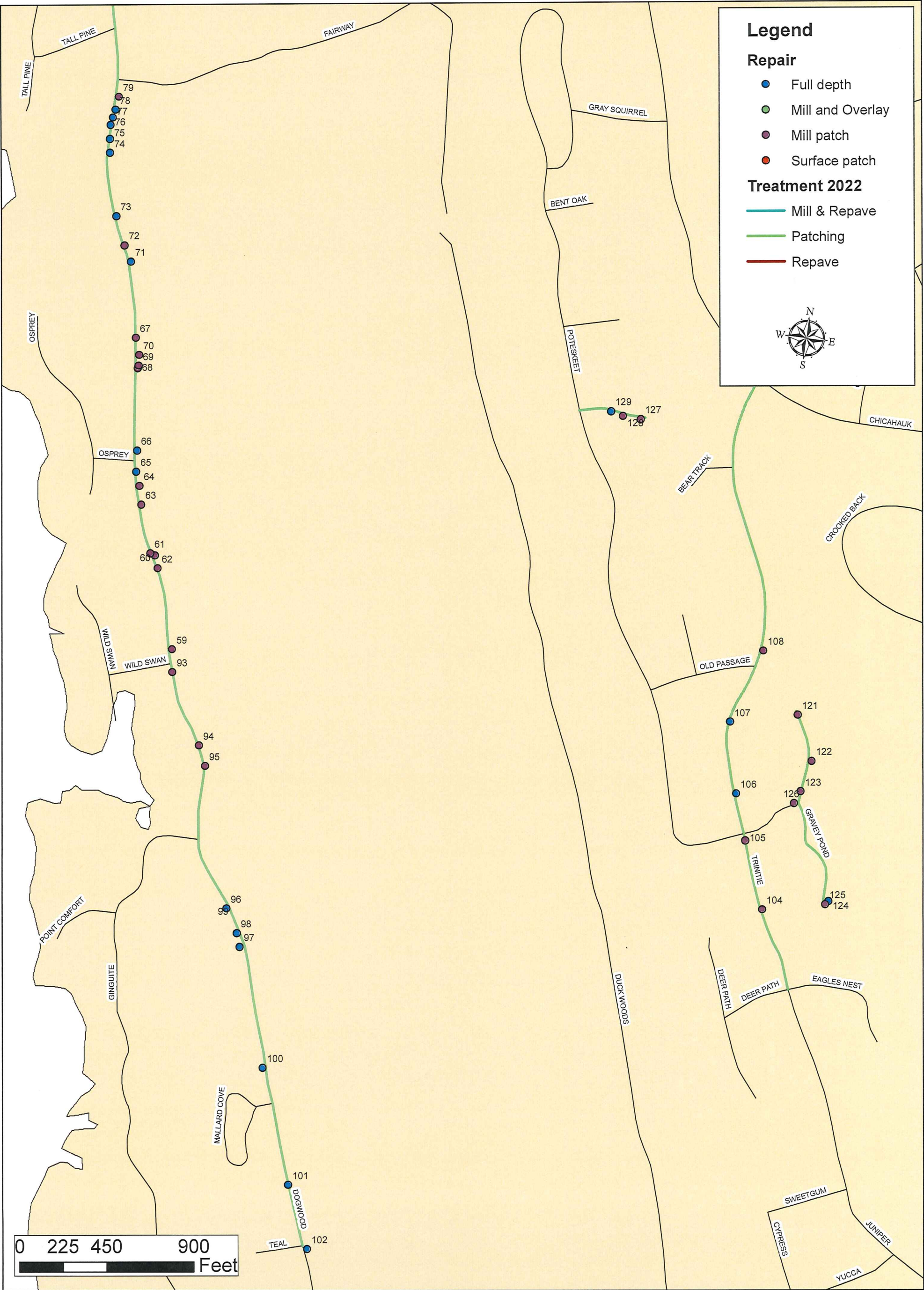
Map 1 of 4



Town of Southern Shores
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Town of Southern Shores

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