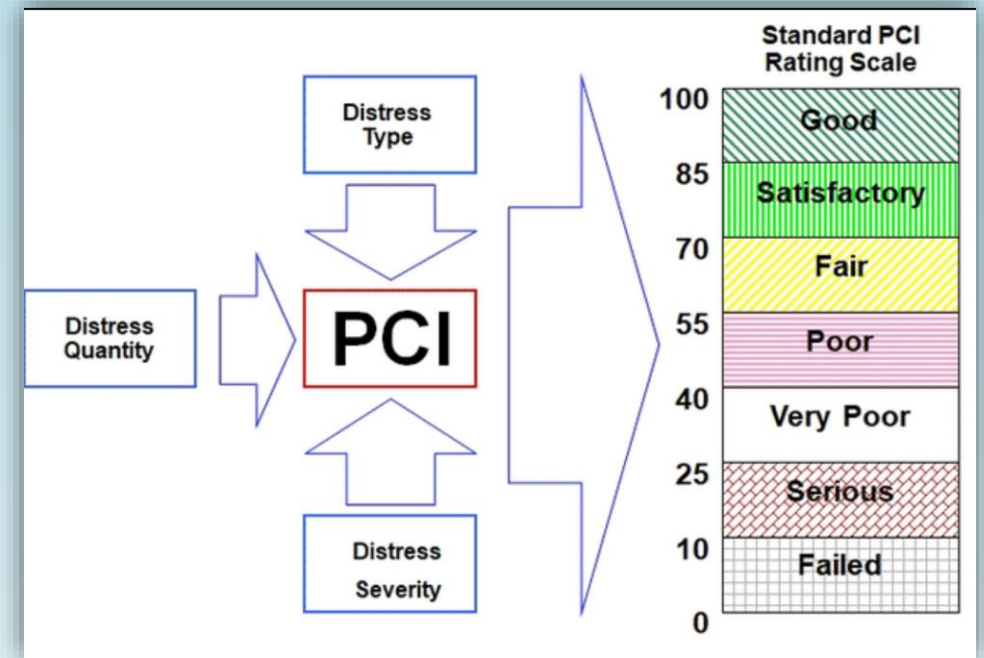




2022 Pavement Condition Survey

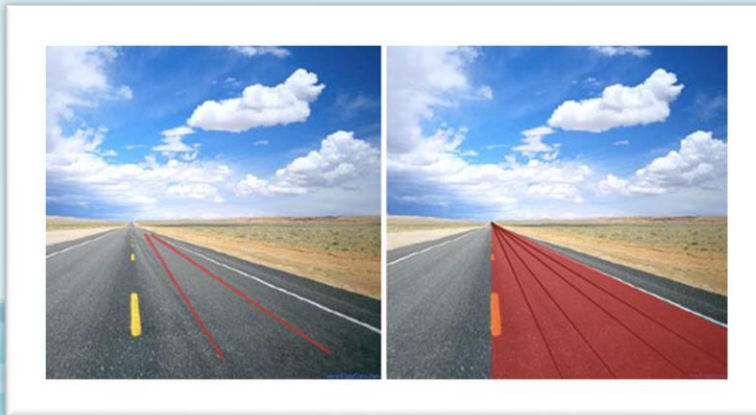
What is the PCI?

- PCI = Pavement Condition Index
- A number between 0(worst) and 100(best)
- Indicates overall condition of pavement for specific street segment
- Based on Pavement Distress Analysis: Cracking, depression, rutting, shoulder drop off, patching, severity and other ASTM D6433 standards for roadways, as well as ride quality



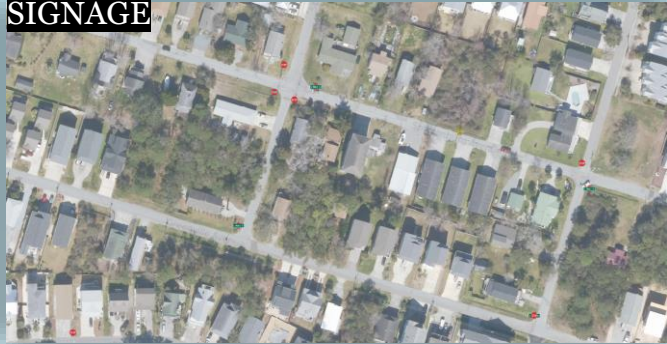
How is the information gathered?

- Services provided by Transmap
- Survey conducted via Transmap's ON-SIGHT vehicle
- Laser Crack Measurement System (LCMS) uses laser line projectors, high speed cameras, and advanced optics to create high resolution 3D profiles of road.
- Both travel lanes are driven and 100% of roadway is captured
- All information is entered into MicroPAVER to generate a PCI for each segment
- QA/QC conducted through “boots on ground” for verification of distresses and severity



GIS Data for Town Assets

SIGNAGE



Markings				
Type	Good	Fair	Poor	Count
Arrow Left	24	16	4	44
Arrow Right	23	18	6	47
Arrow Straight	65	61	16	142
Arrow Left / Right	3	0	1	4
Arrow Left / Straight	9	5	7	21
Arrow Right / Straight	15	6	0	21
Arrow Straight / Left / Right	1	1	0	2
Bike	23	21	11	55
Lane Specific	0	4	0	4
No Parking (text)	9	0	0	9
One Way (text)	7	5	4	16
Only (text)	4	2	0	6
School (text)	1	5	0	6
Speed Bump	2	8	0	10
Stop (text)	2	0	1	3
Total	188	152	50	390



WATER VALVES

Maps

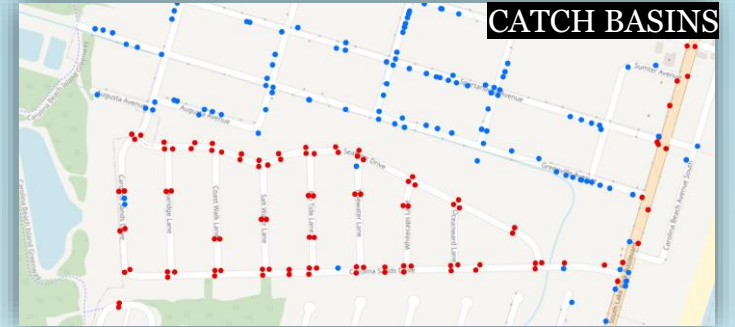
- [ADA Ramps](#)
- [Crosswalks/Markings/Striping](#)
- [Crosswalks/Markings/Striping Downtown](#)
- [Curbs](#)
- [Fire Hydrants](#)
- [Drainage Inlets](#)
- [Manholes](#)
- [Sidewalks](#)
- [Sidewalk Failures](#)
- [Signs](#)
- [Signs Zoomed](#)
- [Streetlights](#)
- [Traffic Signals](#)
- [Water Valves](#)

Shapefiles - GIS files

- [ADA Ramps](#)
- [Crosswalks](#)
- [Curbs](#)
- [Fire Hydrants](#)
- [Drainage Inlets](#)
- [Manholes](#)
- [Pavement Markings](#)
- [Sidewalks](#)
- [Sidewalk Failures](#)
- [Signs](#)
- [Streetlights](#)
- [Pavement Striping](#)
- [Traffic Signals](#)
- [Water Valves](#)

[Carolina Beach, NC Asset Geodatabase](#)

CATCH BASINS



Type	Striping			Count	Length (mi)	Length (ft)
	Good	Fair	Poor			
Double White Solid	1	0	2	3	0.1	633
Double Yellow Solid	79	52	16	147	8.5	44,779
Single White Dash	24	21	0	45	3.2	17,115
Single White Mini-Skip	61	39	7	107	1.1	5,609
Single White Solid	121	143	43	307	16.1	85,147
Single Yellow Dash	7	13	1	21	2.4	12,585
Single Yellow Mini-Skip	0	2	0	2	0.01	82
Single Yellow Solid	7	19	4	30	0.9	4,649
Single Yellow Solid/Dash	0	2	0	2	0.1	768
Stop Bar	51	54	18	123	0.4	1,890
Parking Stall	281	214	17	512	1.7	9,228
White Diagonal	110	87	0	197	0.4	1,949
Yellow Diagonal	32	17	0	49	0.1	534
Total	774	663	108	1,545	35.01	184,968



SIDEWALK FAILURES

Carolina Beach Statistics

- Centerline miles of asphalt roadway: **42.96**
- Represents an investment of roughly **\$67 Million**
- **651** Road segments equaling **531,502** square yards of asphalt
- Weighted Average PCI: **73**
- **Asset Data:**

Crosswalks: 68

Striping: 184,968 LF

Sidewalks: 77,102 LF

Signs: 2,353

Hydrants: 348

Manholes: 967

ADA Ramps: 345

Road Markings: 390

Curbing: 113,235 LF

Streetlights: 894

Catch Basins: 1,643

Water Valves in Road: 977



Town of Carolina Beach 2022 PCI Proposed Phase One Paving



Legend	
█ ARP Funded	PCI
█ State Funded	86 - 100
█ Proposed Future Paving	71 - 85
█ Private Roads	56 - 70
█ DOT Maintained Roads	41 - 55
█ Proposed Phase 1 Paving	26 - 40
□ Property Lines	17 - 25

Number of Segments to be Repaved
(Includes ARP & State Funded Repaving): 54
Total Cost of Repaving to TCB: \$725,655
Current PCI: 73
PCI after Proposed Paving: 78



2022 Priority Paving List

Series	BranchID	SectionID	From	To	Length	Section True Area	PCI	Mile	AREA (SqYds)	Wt PCI	Condition	Cost
Serious	SECONDSTS	349	SUMTER AVE	SPARTANBURG AVE	343.781509	6188.000002	21	0.06511013	687.5555558	14438.6667	Serious	\$14,438.67

Series	BranchID	SectionID	From	To	Length	Section True Area	PCI	Mile	Area (YD ²)	Wt PCI	Condition	Cost
Very Poor	ATLANTA AV	139	EIGHTH ST S	ATLANTA AVE	503.71	10,074.00	31.00	0.10	1,119	34,699	Very Poor	\$23,506.00
	ATLANTA AV	146	SIXTH ST S	SEVENTH ST S	577.8	11,556.00	34.00	0.11	1,284	43,656	Very Poor	\$26,964.00
	ATLANTA AV	469	SEVENTH ST S	EIGHTH ST S	574.19	11,484.00	37.00	0.11	1,276	47,212	Very Poor	\$26,796.00
	BEECH CT	669	EOP	BAY CT	218.52	4,807.00	37.00	0.04	534	19,762	Very Poor	\$11,216.33
	FAYETTEVIL	140	SIXTH ST S	SEVENTH ST S	575.43	11,509.00	35.00	0.11	1,279	44,757	Very Poor	\$26,854.33
	FAYETTEVIL	134	SEVENTH ST S	EIGHTH ST S	574.92	12,648.00	36.00	0.11	1,405	50,592	Very Poor	\$29,512.00
	FLORENCE AV	116	LAKE PARK BLV N	HARPER AVE	631.34	12,627.00	34.00	0.12	1,403	47,702	Very Poor	\$29,463.00
	FOURTH STS	588	BIRMINGHAM AVE	SUMTER AVE	295.63	5,321.00	40.00	0.06	591	23,649	Very Poor	\$12,415.67
	PELICAN LN	568	CAROLINA BEACH AVE N	CANAL DR	289.16	6,361.00	40.00	0.05	707	28,271	Very Poor	\$14,842.33
	RALEIGH AV	444	SIXTH ST N	SEVENTH ST N	572.2	12,016.00	40.00	0.11	1,335	53,404	Very Poor	\$28,037.33
	SAILFISH LN	390	CAROLINA BEACH AVE N	CANAL DR	292.38	6,432.00	33.00	0.06	715	23,584	Very Poor	\$15,008.00
	SAND DOLLAR	351	CAROLINA BEACH AVE N	CANAL DR	291.84	5,837.00	38.00	0.06	649	24,645	Very Poor	\$13,619.67
	SEVENTH STN	692	ALLEY	DOW RD N	494.49	9,890.00	38.00	0.09	1,099	41,758	Very Poor	\$23,076.67
	SPARTANBUR	190	CAROLINA BEACH AVE S	LAKE PARK BLV S	163.75	2,784.00	29.00	0.03	309	8,971	Very Poor	\$6,496.00
	SPARTANBUR	497	THIRD ST S	FOURTH ST S	569.93	11,399.00	40.00	0.11	1,267	50,662	Very Poor	\$26,597.67
SUMTER AV	495	LAKE PARK BLV S	SECOND ST S	320.2	5,764.00	27.00	0.06	640	17,292	Very Poor	\$13,449.33	

Series	BranchID	SectionID	From	To	Length	Section True Area	PCI	Mile	SY	Wt PCI	Condition	Cost
Poor	BAY CT	294	EOP	BEECH CT	140.24	2,664.00	41	0.03	296	12,136	Poor	\$6,216.00
	FOURTH STN	544	LUMBERTON AVE	WILSON AVE	338.91	6,100.00	42	0.06	678	28,467	Poor	\$14,233.33
	MYRTLE AV	458	HARPER AVE	CARL WINNER AVE	697.9	14,656.00	42	0.13	1,628	68,395	Poor	\$34,197.33
	BIRCH CT	297	BAY CT	EOP	187.73	3,755.00	43	0.04	417	17,941	Poor	\$8,761.67
	FOURTH STS	333	COLUMBIA AVE	BIRMINGHAM AVE	305.	5,490.00	43	0.06	610	26,230	Poor	\$12,810.00
	VIRGINIA AV	418	CANAL DR	DELAWARE AVE	640.17	16,644.00	43	0.12	1,849	79,521	Poor	\$38,836.00
	SPARTANBUR	180	FOURTH ST S	FIFTH ST S	579.83	9,857.00	44	0.11	1,095	48,190	Poor	\$22,999.67
	STARFISH LN	369	CAROLINA BEACH AVE N	CANAL DR	286.56	4,585.00	44	0.05	509	22,416	Poor	\$10,698.33
	ALABAMA AV	531	SWORDFISH LN	BONITO LN	270.92	5,418.00	45	0.05	602	27,090	Poor	\$12,642.00
	SCOTCH BONN	375	CAROLINA BEACH AVE N	CANAL DR	289.76	5,795.00	46	0.05	644	29,619	Poor	\$13,521.67
	SIXTH STS	535	COLUMBIA AVE	BIRMINGHAM AVE	302.21	6,044.00	46	0.06	672	30,892	Poor	\$14,102.67
	GOLDSBORO A	404	FERN CREEK LN	HARPER AVE	149.36	2,987.00	47	0.03	332	15,599	Poor	\$6,969.67
	RALEIGH AV	105	SEVENTH ST N	EIGHTH ST N	578.79	11,576.00	47	0.11	1,286	60,452	Poor	\$27,010.67
	SEVENTH STS	583	CHARLOTTE AVE	HAMLET AVE	300.58	6,012.00	47	0.06	668	31,396	Poor	\$14,028.00
	FOURTH STS	589	SUMTER AVE	SPARTANBURG AVE	349.25	6,287.00	49	0.07	699	34,229	Poor	\$14,669.67
	EIGHTH STS	314	CHARLOTTE AVE	HAMLET AVE	301.15	6,023.00	49	0.06	669	32,792	Poor	\$14,053.67
	SUMTER AV	10166	SEVENTH ST S	EIGHTH ST S	571.56	10,288.00	48	0.11	1,143	54,869	Poor	\$24,005.33
	SUMTER AV	168	SIXTH ST S	SEVENTH ST S	570.9	11,418.00	51	0.11	1,269	64,702	Poor	\$26,642.00
	SEVENTH STS	584	BIRMINGHAM AVE	SUMTER AVE	304.1	6,082.00	53	0.06	676	35,816	Poor	\$14,191.33
	SPARTANBUR	498	SECOND ST S	THIRD ST S	611.73	12,846.00	47	0.12	1,427	67,085	Poor	\$29,974.00
	SPARTANBUR	176	FIFTH ST S	SIXTH ST S	574.74	9,771.00	47	0.11	1,086	51,026	Poor	\$22,799.00

Highlights:

23,682 linear feet of asphalt to be paved

4.48 mile of roadway

Nearly **\$1.5 Million** to be put towards roads