



**CAVANAUGH**

*Solutions through integrity and partnership*

CAVANAUGH & ASSOCIATES, P.A.

# Town of Surf City

## Sidewalk Infrastructure Expansion

Pender County, North Carolina

Project No.: 041.08.012



Prepared by:  
William G. Simmons, Jr., PE

Cavanaugh & Associates, P.A.

December 2008

# TOWN OF SURF CITY SIDEWALK INFRASTRUCTURE EXPANSION

PREPARED FOR:

**Town of Surf City**

DECEMBER 2008

**REVERSED**



PREPARED BY:



**CAVANAUGH**

*Solutions through integrity and partnership*

**CAVANAUGH & ASSOCIATES #: 041.08.012**

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# TOWN OF SURF CITY SIDEWALK INFRASTRUCTURE EXPANSION DECEMBER 2008

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Town of Surf City  
Sidewalk Infrastructure Expansion  
December 2008

## Executive Summary

The objective of this Sidewalk Infrastructure Expansion is to assess the existing sidewalk infrastructure on the Island portion of the Town of Surf City and to provide an estimate of the sidewalk needed that will safely grant access to pedestrian travel to each street on the Island within the Town's bounds. An inventory of the current sidewalk infrastructure was taken as part of the Parking and Transportation Master Plan performed by Cavanaugh and Associates during the summer of 2008. The results of this report showed that the Town currently has a "patchwork" system of sidewalks in which small fragments are scattered around the Island with few being in long, continuous segments. With the expansion of the sidewalk infrastructure The Town of Surf City will be facilitating the healthy and sustainable growth for both its current and future residents. The estimates in this report reflect proposed sidewalk that has been designed with respect to existing sidewalk fragments and existing hard surfaces such as asphalt and concrete.

### Section 1-Phases of Expansion

In order to fully expand the sidewalk infrastructure to the entire island, 75,801.8 Linear Feet of sidewalk must be added at a total cost of \$1,008,164.07. This project has been broken into seven (7) phases in order to more easily fund and expand the infrastructure. Each phase description can be seen below.

#### I. Phase 1

##### a. Roland Avenue

The location of this part of Phase 1 is found on Roland Avenue just as you arrive on the island off of the bridge. These sections of sidewalk run parallel with Roland Avenue from the bridge to the intersection of New River Drive North/South and Roland Avenue.

##### b. South Shore Drive

The second part of Phase 1 runs parallel with South Shore Drive falling on the Intracoastal Waterway (ICW) side of South Shore. This sidewalk runs from the south side of High Point Avenue to the intersection of South Shore Drive and South Topsail Drive.

The total Linear Footage of the sidewalks is 7,002.3 feet with a cost of \$93,130.32. (Table 2)

#### II. Phase 2 – Central Business District

The Central Business District (CBD) is defined as being from the east side of High Point Avenue to the west side of New Berrn Avenue, inclusive, and from the ocean side of South/North Shore Drives to the ICW side of New River Drive North/South, inclusive. Within the CBD, each block is "wrapped" with sidewalk as opposed to having only one side of the street lined with

sidewalk. The total Linear Footage of the sidewalks is 14,818.53 feet with a cost of \$197,086.45. (Table 3)

### III. Phase 3-New Bern Avenue North to Shell Drive

Phase 3 culminates all streets from north of New Bern Avenue to the south side of Shell Drive. Within this phase, sidewalk that runs along side of New River Drive North, North Topsail Drive, and North Shore Drive is only designated to travel down one side of its adjoining road. The crossing streets have sidewalk running on each side of the street. Because sidewalk segment 17 spans several phases it has been included only in Phase 4 totals. The total Linear Footage of the sidewalks is 13,784.4 feet with a cost of \$183,333.52. (Table 4)

### IV. Phase 4-Shell Drive North to Jones Avenue

Phase 4 culminates all streets from north of Shell Drive to the south side of Jones Avenue. Within this phase sidewalk that runs along side of New River Drive North, North Topsail Drive, and North Shore Drive is only designated to travel down one side of its adjoining road. The crossing streets have sidewalk running on each side of the street. Because sidewalk segment 17 spans several phases, it has been excluded from this phase's estimates and included in Phase 4 totals. The total Linear Footage of the sidewalks is 6,076.2 feet with a cost of \$80,813.46. (Table 5)

### V. Phase 5-Jones Avenue North to Broadway Street

Phase 5 culminates all streets from north of Jones Avenue to the south side of Broadway Street. Within this phase sidewalk that runs along side of New River Drive North, North Topsail Drive, and North Shore Drive is only designated to travel down one side of its adjoining road. The crossing streets have sidewalk running on each side of the street. Because sidewalk segment 17 spans several phases, it has been excluded from this phase's estimates and included in Phase 4 totals. The total Linear Footage of the sidewalks is 8,876.0 feet with a cost of \$118,050.8. (Table 6)

### VI. Phase 6-Broadway Street North to 9<sup>th</sup> Street

Phase 6 culminates all streets from north of Broadway Street to the south side of 9<sup>th</sup> Street. Within this phase sidewalk that runs along side of New River Drive North and North Shore Drive is only designated to travel down one side of its adjoining road. The crossing streets have sidewalk running on each side of the street. The total Linear Footage of the sidewalks is 14,655.1 feet with a cost of \$194,912.83. (Table 7)

### VII. Phase 7-High Point Avenue South to Merge of South Shore and South Topsail

Phase 7 culminates all streets from High Point Avenue south to the intersection of South Shore Drive and South Topsail Drive excluding that sidewalk which is proposed in Phase 1. Within this phase sidewalk that runs along side of South Topsail Drive and South Shore Drive is only designated to travel down one side of its adjoining road. The crossing streets have

sidewalk running on each side of the street. The total Linear Footage of the sidewalks is 10,589.3 feet with a cost of \$140,837.69. (Table 8)

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Town of Surf City  
Sidewalk Infrastructure Expansion  
December 2008

# Appendices

## I. Phase Maps

Map 1a-Roland Avenue

Map 1b- South Shore Drive

Map 1c- South Shore Drive

Map 2-Central Business District

Map 3-New Bern Avenue North to Shell Drive

Map 4-Shell Drive North to Jones Avenue

Map 5-Jones Avenue North to Broadway Street

Map 6-Broadway Street North to 9<sup>th</sup> Street

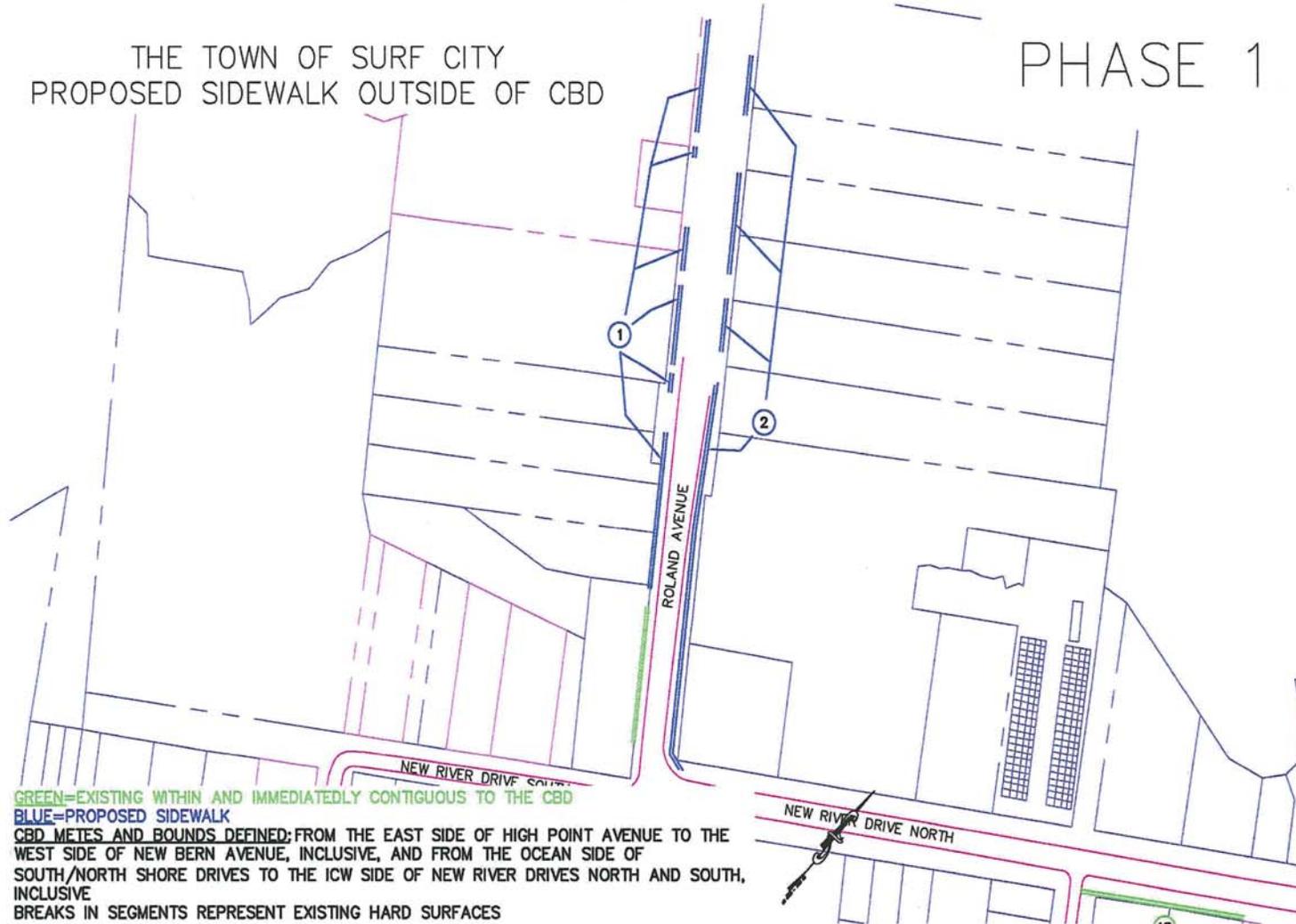
Map 7a-High Point Avenue to Merge of South Shore and Topsail Drives

Map 7b-High Point Avenue to Merge of South Shore and Topsail Drives

Map 1a-Roland Avenue

THE TOWN OF SURF CITY  
PROPOSED SIDEWALK OUTSIDE OF CBD

PHASE 1

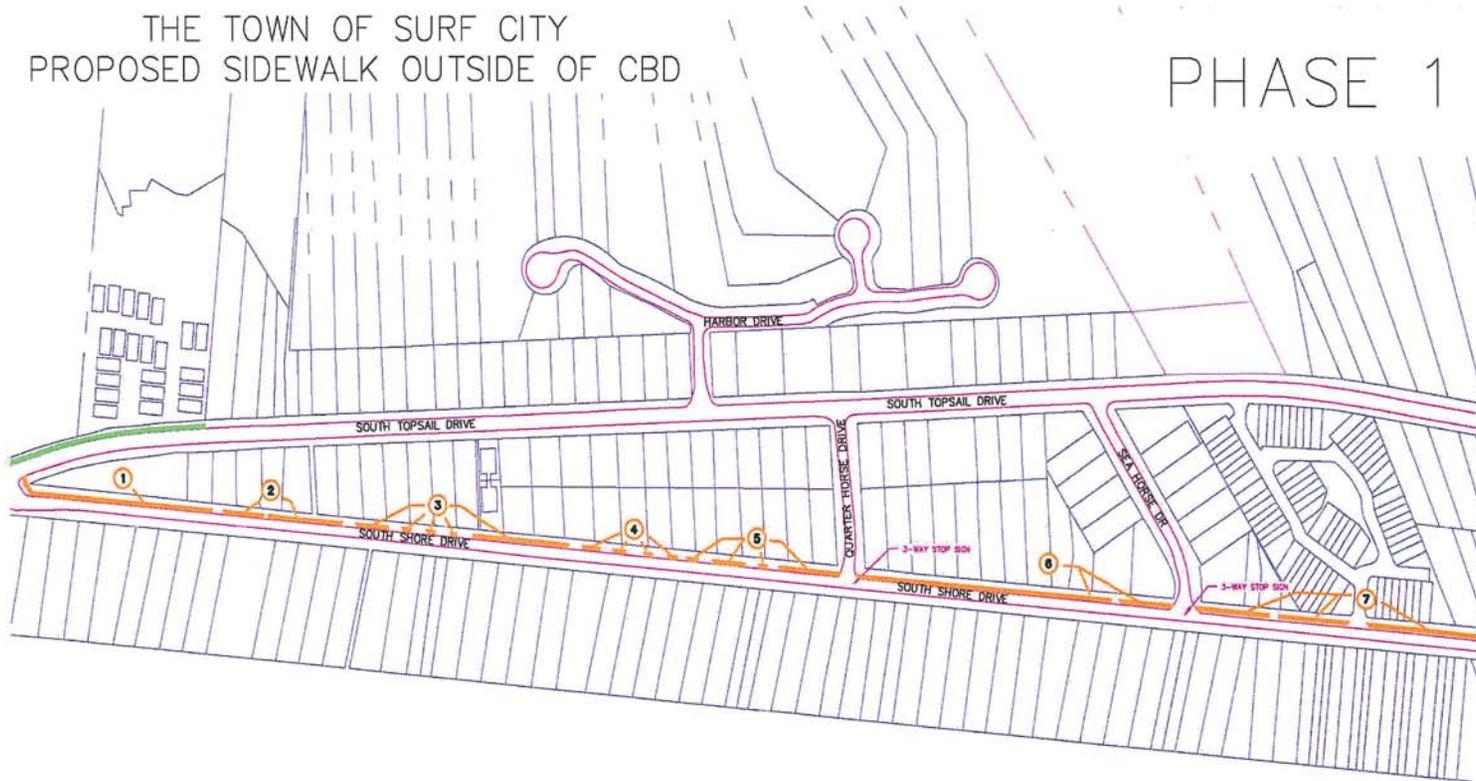


GREEN=EXISTING WITHIN AND IMMEDIATELY CONTIGUOUS TO THE CBD  
 BLUE=PROPOSED SIDEWALK  
 CBD METES AND BOUNDS DEFINED: FROM THE EAST SIDE OF HIGH POINT AVENUE TO THE WEST SIDE OF NEW BERN AVENUE, INCLUSIVE, AND FROM THE OCEAN SIDE OF SOUTH/NORTH SHORE DRIVES TO THE ICW SIDE OF NEW RIVER DRIVES NORTH AND SOUTH, INCLUSIVE  
 BREAKS IN SEGMENTS REPRESENT EXISTING HARD SURFACES

Map 1b- South Shore Drive

THE TOWN OF SURF CITY  
PROPOSED SIDEWALK OUTSIDE OF CBD

PHASE 1



GREEN=EXISTING SIDEWALK

ORANGE=PROPOSED SIDEWALK OUTSIDE OF THE CBD

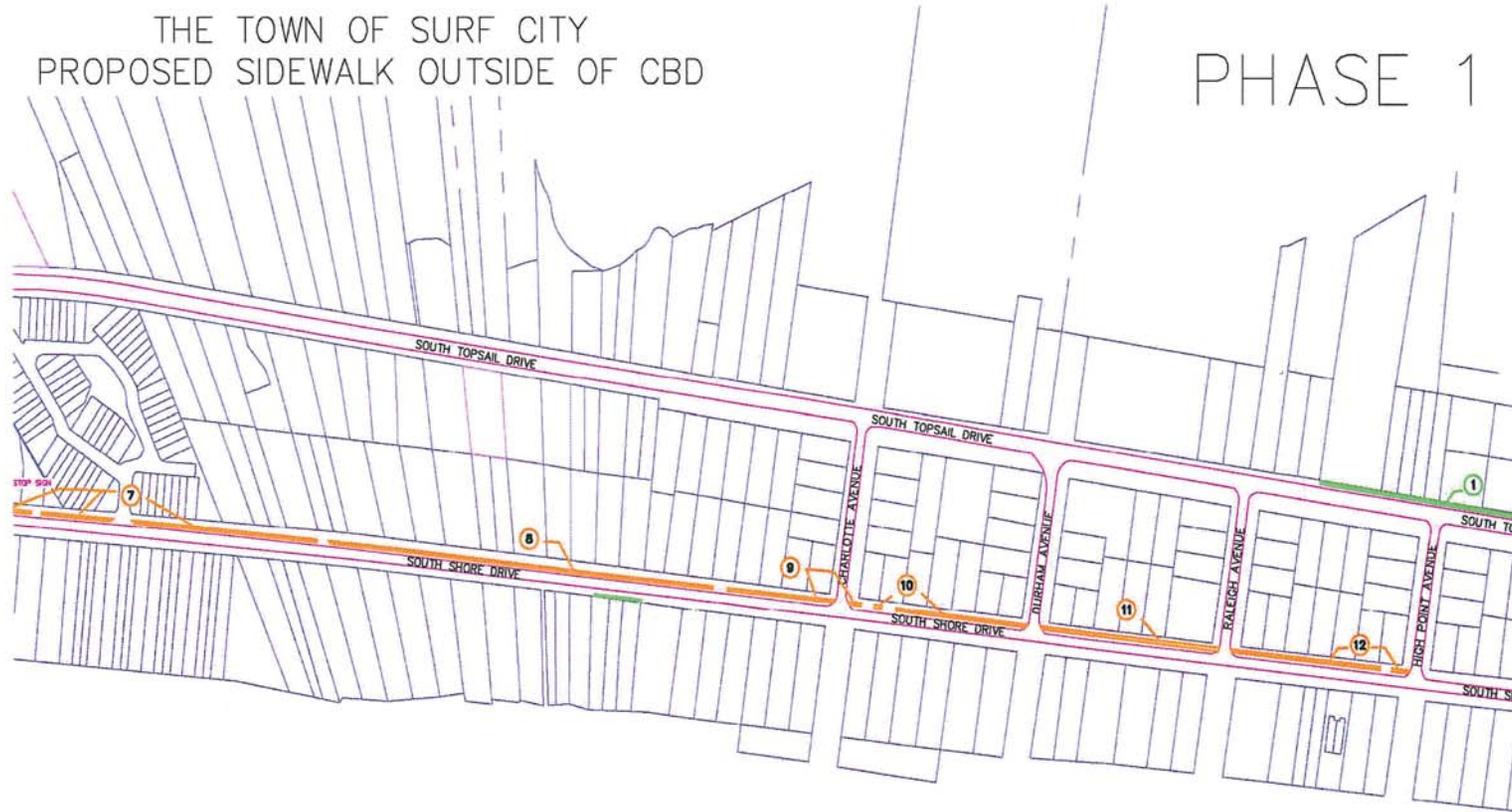
**CBD METES AND BOUNDS DEFINED:** FROM THE EAST SIDE OF HIGH POINT AVENUE TO THE WEST SIDE OF NEW BERN AVENUE, INCLUSIVE, AND FROM THE OCEAN SIDE OF SOUTH/NORTH SHORE DRIVES TO THE ICW SIDE OF NEW RIVER DRIVES NORTH AND SOUTH, INCLUSIVE

BREAKS IN SEGMENTS REPRESENT HARD SURFACES.

Map 1c- South Shore Drive

THE TOWN OF SURF CITY  
PROPOSED SIDEWALK OUTSIDE OF CBD

PHASE 1



GREEN=EXISTING SIDEWALK

ORANGE=PROPOSED SIDEWALK OUTSIDE OF THE CBD

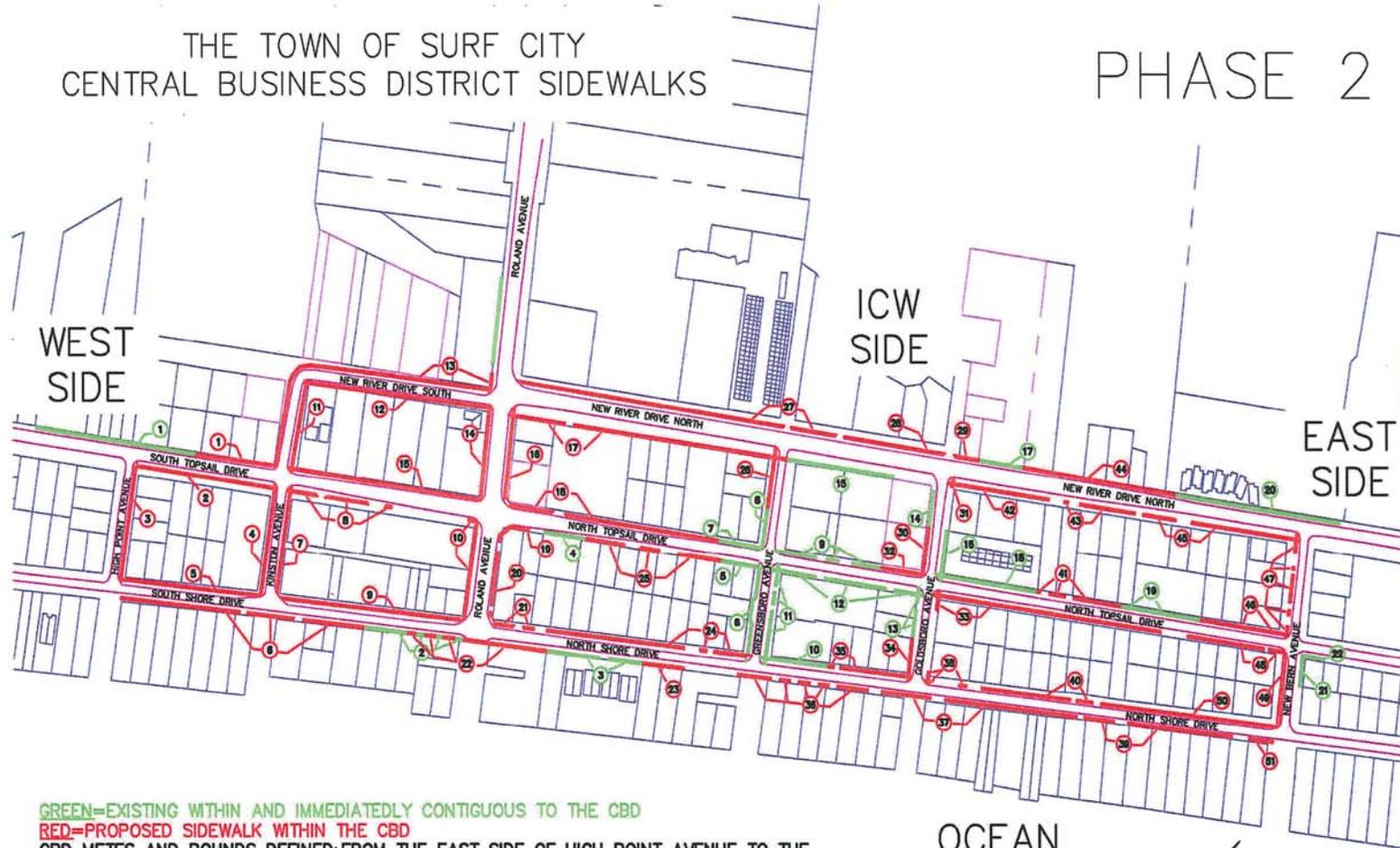
**CBD METES AND BOUNDS DEFINED:** FROM THE EAST SIDE OF HIGH POINT AVENUE TO THE WEST SIDE OF NEW BERN AVENUE, INCLUSIVE, AND FROM THE OCEAN SIDE OF SOUTH/NORTH SHORE DRIVES TO THE ICW SIDE OF NEW RIVER DRIVES NORTH AND SOUTH, INCLUSIVE

BREAKS IN SEGMENTS REPRESENT HARD SURFACES.

Map 2-Central Business District

THE TOWN OF SURF CITY  
CENTRAL BUSINESS DISTRICT SIDEWALKS

PHASE 2

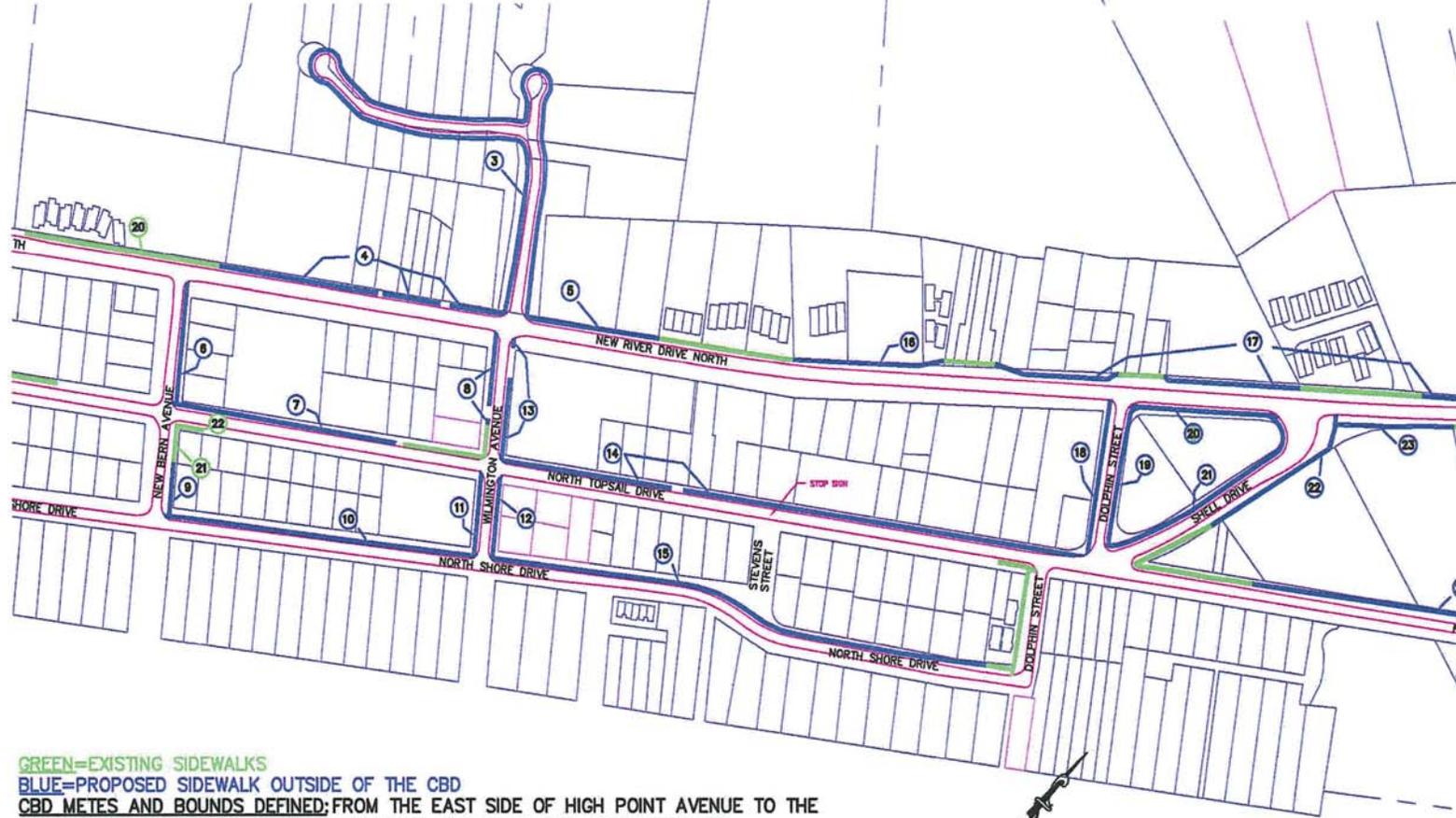


GREEN=EXISTING WITHIN AND IMMEDIATELY CONTIGUOUS TO THE CBD  
 RED=PROPOSED SIDEWALK WITHIN THE CBD  
 CBD METES AND BOUNDS DEFINED: FROM THE EAST SIDE OF HIGH POINT AVENUE TO THE WEST SIDE OF NEW BERN AVENUE, INCLUSIVE, AND FROM THE OCEAN SIDE OF SOUTH/NORTH SHORE DRIVES TO THE ICW SIDE OF NEW RIVER DRIVES NORTH AND SOUTH, INCLUSIVE  
 BREAKS IN SEGMENTS REPRESENT HARD SURFACES.

Map 3-New Bern Avenue North to Shell Drive

THE TOWN OF SURF CITY  
PROPOSED SIDEWALK OUTSIDE OF CBD

PHASE 3

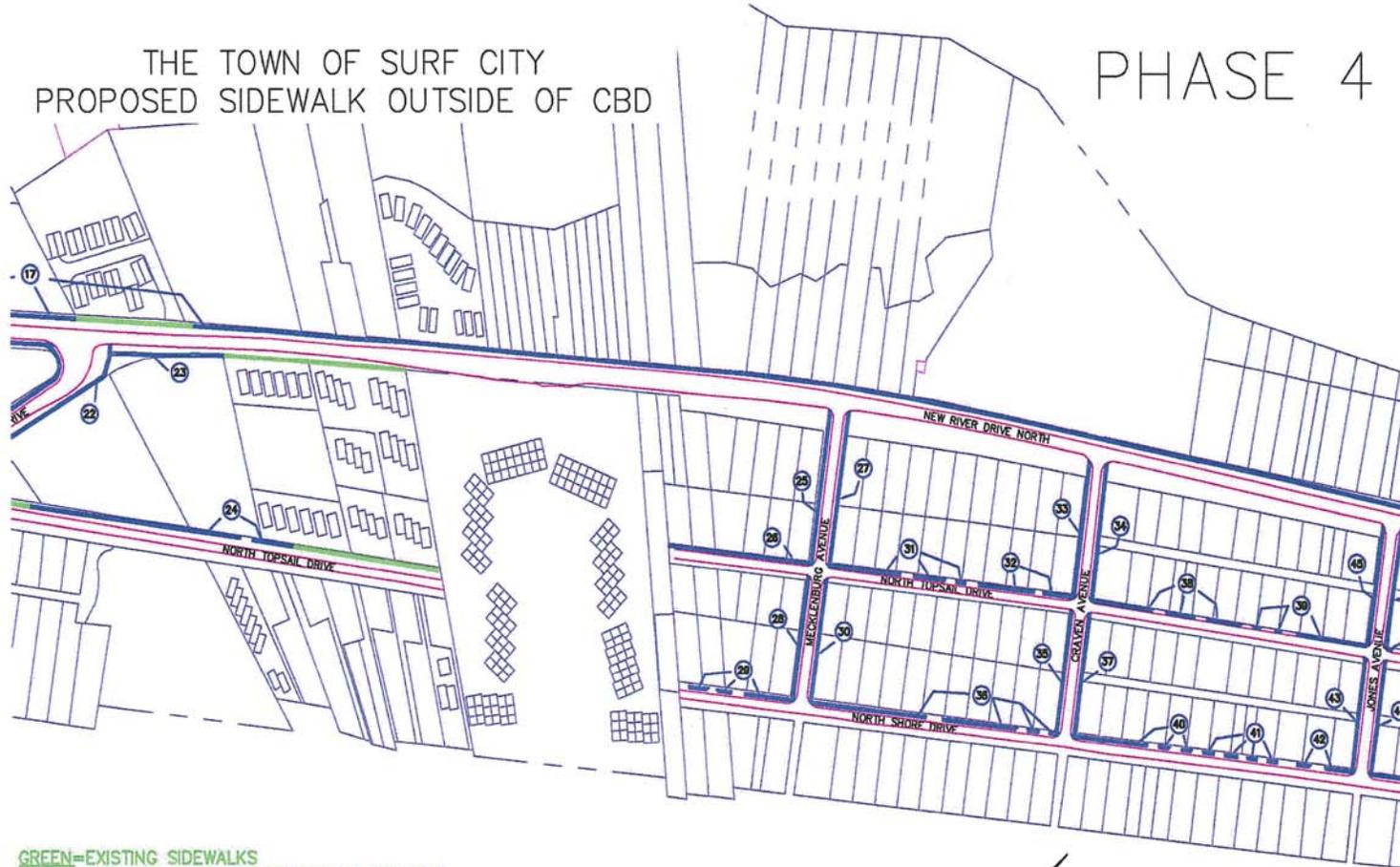


GREEN=EXISTING SIDEWALKS  
 BLUE=PROPOSED SIDEWALK OUTSIDE OF THE CBD  
 CBD METES AND BOUNDS DEFINED; FROM THE EAST SIDE OF HIGH POINT AVENUE TO THE WEST SIDE OF NEW BERN AVENUE, INCLUSIVE, AND FROM THE OCEAN SIDE OF SOUTH/NORTH SHORE DRIVES TO THE ICW SIDE OF NEW RIVER DRIVES NORTH AND SOUTH, INCLUSIVE  
 BREAKS IN SEGMENTS REPRESENT EXISTING HARD SURFACES

Map 4-Shell Drive North to Jones Avenue

THE TOWN OF SURF CITY  
PROPOSED SIDEWALK OUTSIDE OF CBD

PHASE 4

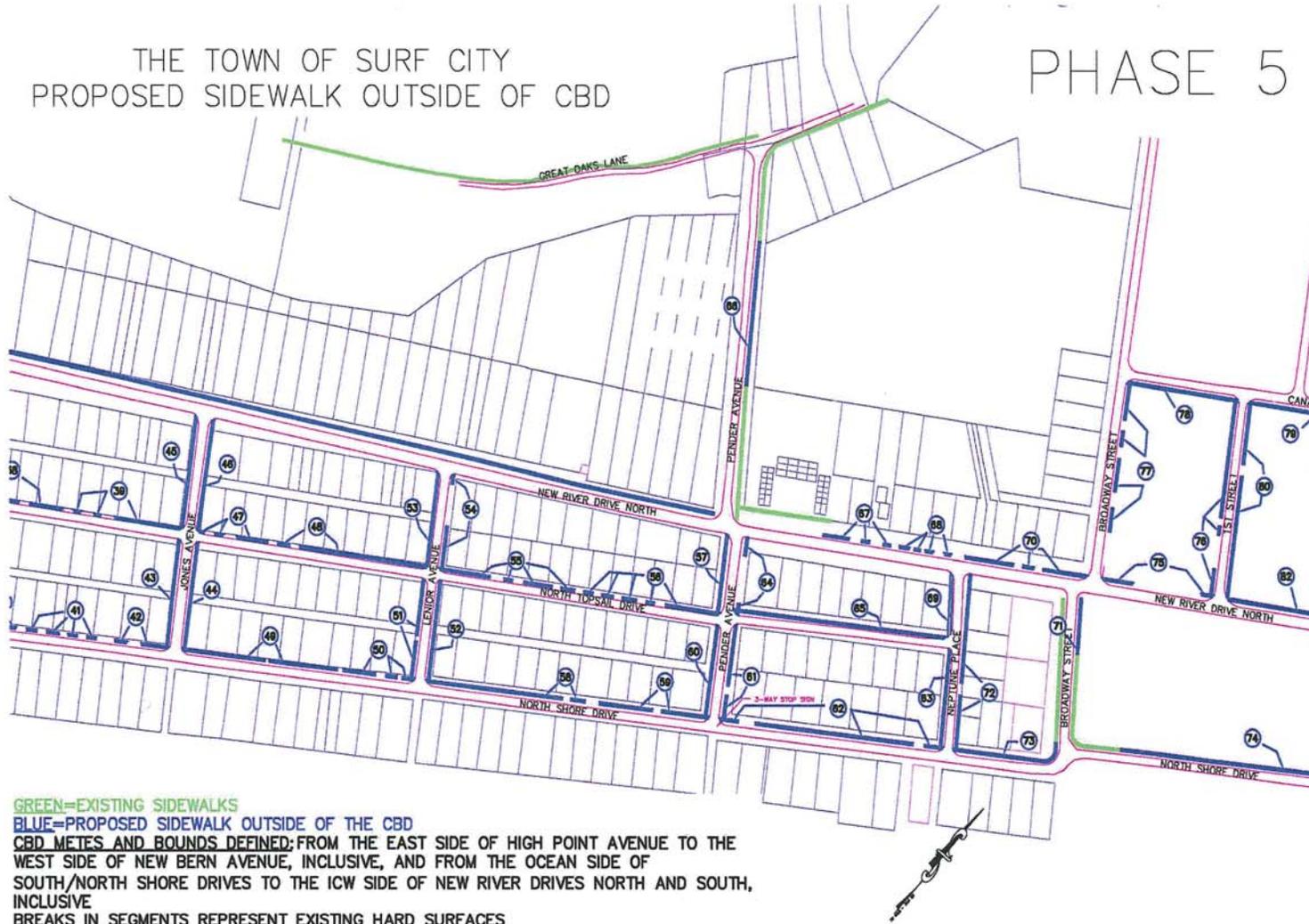


GREEN=EXISTING SIDEWALKS  
 BLUE=PROPOSED SIDEWALK OUTSIDE OF THE CBD  
 CBD METES AND BOUNDS DEFINED: FROM THE EAST SIDE OF HIGH POINT AVENUE TO THE WEST SIDE OF NEW BERN AVENUE, INCLUSIVE, AND FROM THE OCEAN SIDE OF SOUTH/NORTH SHORE DRIVES TO THE ICW SIDE OF NEW RIVER DRIVES NORTH AND SOUTH, INCLUSIVE  
 BREAKS IN SEGMENTS REPRESENT EXISTING HARD SURFACES

Map 5-Jones Avenue North to Broadway Street

THE TOWN OF SURF CITY  
PROPOSED SIDEWALK OUTSIDE OF CBD

PHASE 5

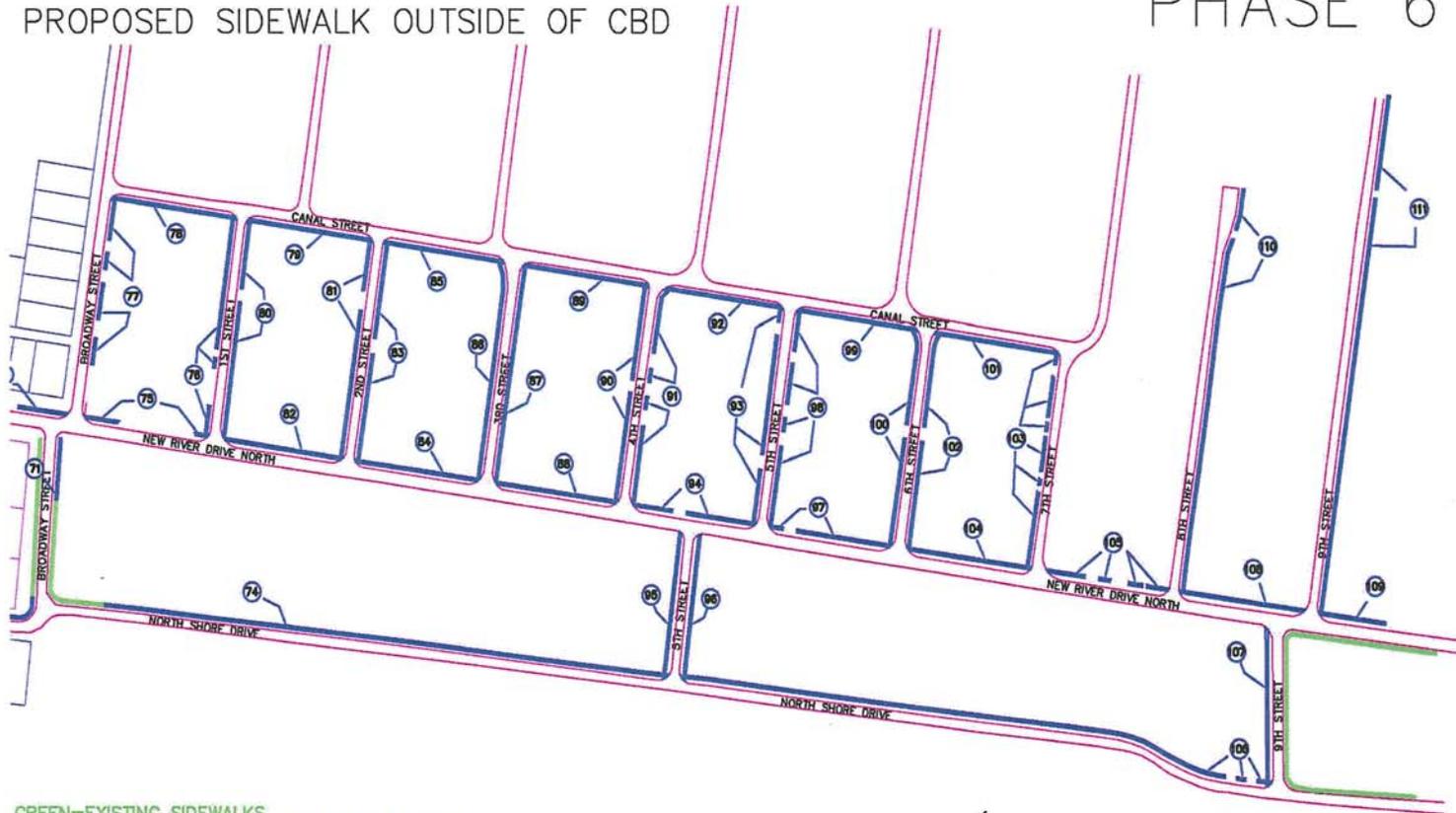


GREEN=EXISTING SIDEWALKS  
 BLUE=PROPOSED SIDEWALK OUTSIDE OF THE CBD  
 CBD METES AND BOUNDS DEFINED: FROM THE EAST SIDE OF HIGH POINT AVENUE TO THE WEST SIDE OF NEW BERN AVENUE, INCLUSIVE, AND FROM THE OCEAN SIDE OF SOUTH/NORTH SHORE DRIVES TO THE ICW SIDE OF NEW RIVER DRIVES NORTH AND SOUTH, INCLUSIVE  
 BREAKS IN SEGMENTS REPRESENT EXISTING HARD SURFACES

Map 6-Broadway Street North to 9<sup>th</sup> Street

THE TOWN OF SURF CITY  
PROPOSED SIDEWALK OUTSIDE OF CBD

PHASE 6



GREEN=EXISTING SIDEWALKS

BLUE=PROPOSED SIDEWALK OUTSIDE OF THE CBD

CBD METES AND BOUNDS DEFINED: FROM THE EAST SIDE OF HIGH POINT AVENUE TO THE WEST SIDE OF NEW BERN AVENUE, INCLUSIVE, AND FROM THE OCEAN SIDE OF SOUTH/NORTH SHORE DRIVES TO THE ICW SIDE OF NEW RIVER DRIVES NORTH AND SOUTH, INCLUSIVE

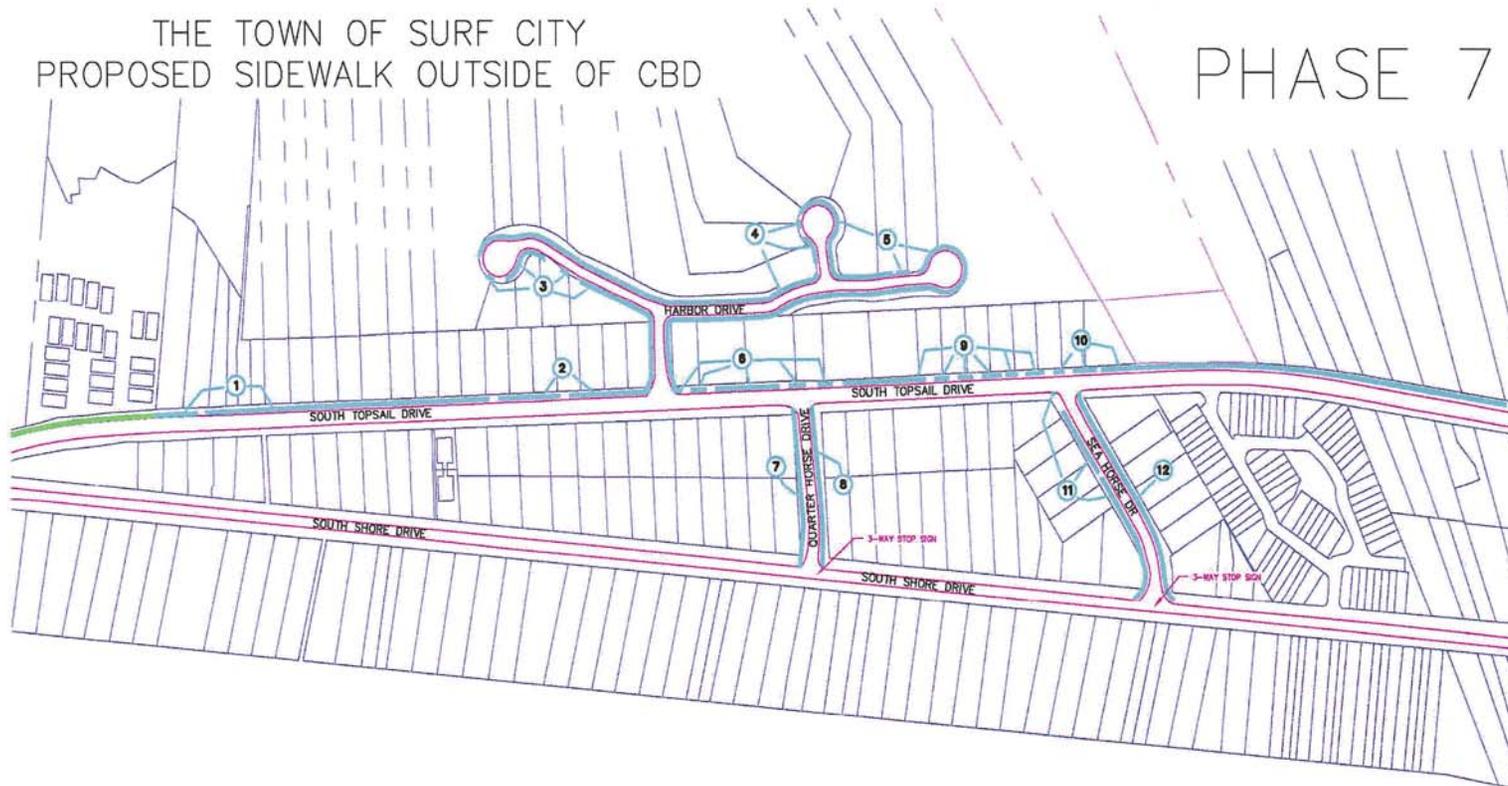
BREAKS IN SEGMENTS REPRESENT EXISTING HARD SURFACES



Map 7a-High Point Avenue to Merge of South Shore and Topsail Drives

THE TOWN OF SURF CITY  
PROPOSED SIDEWALK OUTSIDE OF CBD

PHASE 7



GREEN=EXISTING SIDEWALKS

CYAN=PROPOSED SIDEWALK OUTSIDE OF THE CBD

CBD METES AND BOUNDS DEFINED; FROM THE EAST SIDE OF HIGH POINT AVENUE TO THE WEST SIDE OF NEW BERN AVENUE, INCLUSIVE, AND FROM THE OCEAN SIDE OF SOUTH/NORTH SHORE DRIVES TO THE ICW SIDE OF NEW RIVER DRIVES NORTH AND SOUTH, INCLUSIVE

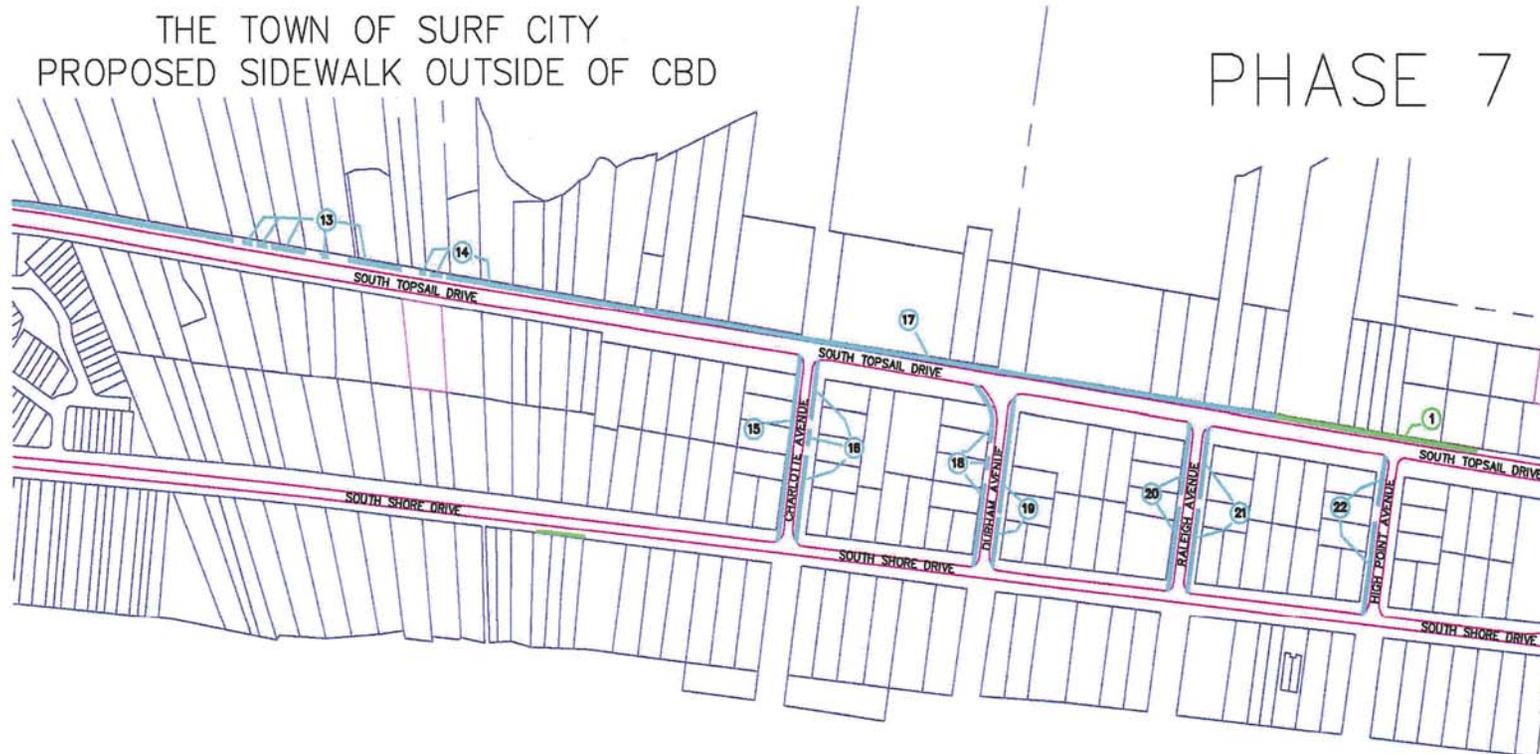
BREAKS IN SEGMENTS REPRESENTS EXISTING HARD SURFACES



Map 7b-High Point Avenue to Merge of South Shore and Topsail Drives

THE TOWN OF SURF CITY  
PROPOSED SIDEWALK OUTSIDE OF CBD

PHASE 7



GREEN=EXISTING SIDEWALKS  
 CYAN=PROPOSED SIDEWALK OUTSIDE OF THE CBD  
 CBD METES AND BOUNDS DEFINED: FROM THE EAST SIDE OF HIGH POINT AVENUE TO THE WEST SIDE OF NEW BERN AVENUE, INCLUSIVE, AND FROM THE OCEAN SIDE OF SOUTH/NORTH SHORE DRIVES TO THE ICW SIDE OF NEW RIVER DRIVES NORTH AND SOUTH, INCLUSIVE  
 BREAKS IN SEGMENTS REPRESENTS EXISTING HARD SURFACES



# Appendices

## II. Phase Tables

Table 1-Existing Sidewalk Within The Central Business District

Table 2-Roland Avenue and South Shore Drive

Table 3-Central Business District

Table 4-New Bern Avenue North to Shell Drive

Table 5-Shell Drive North to Jones Avenue

Table 6-Jones Avenue North to Broadway Street

Table 7-Broadway Street North to 9<sup>th</sup> Street

Table 8-High Point Avenue to Merge of South Shore and Topsail Drives

Table 1-Existing Sidewalk With-in the Central Business District

<b>CENTRAL BUSINESS DISTRICT** EXISTING SIDEWALKS</b>		
<b>Sidewalk</b>	<b>Linear Footage*</b>	<b>Runs Parallel With:</b>
1	417.5***	South Topsail Drive
2	188.3	South Shore Drive
3	230.6	North Shore Drive
4	110.0	North Topsail Drive
5	114.0	North Topsail Drive
6	240.9	Greensboro Avenue
7	112.9	North Topsail Drive
8	94.4	Greensboro Avenue
9	212.4	North Topsail Drive
10	177.2	North Shore Drive
11	212.1	Greensboro Avenue
12	347.5	North Topsail Drive
13	102.8	Goldsboro Avenue
14	87.7	Goldsboro Avenue
15	277.5	North New River Drive/HWY 210
16	102.2	Goldsboro Avenue
17	118.0	North New River Drive/HWY 210
18	265.8	North Topsail Drive
19	205.6	North Topsail Drive
20	429.9***	North New River Drive/HWY 210
21	71.2***	New Bern Avenue
22	55.0***	North Topsail Drive
<b>Total LF:</b>		<b>4173.5</b>

\* All Distances are Approximate.

\*\* CENTRAL BUSINESS DISTRICT (CBD) DEFINED: From the East side of High Point Avenue to the West side of New Bern Avenue, inclusive AND from the ocean side of South/North Shore Drives to the ICW side of New River Drives North and South, inclusive

\*\*\* Footage includes sidewalks immediately contiguous to the CBD.

Table 2-Roland Avenue and South Shore Drive

Phase 1									
Sidewalk	Linear Footage*	Runs Parallel With:	Unit	Unit Cost	Ext'd	Contingency	OH & Profit	Total Cost	
1	633.6	Roland Avenue	LF	9.5	\$ 6,018.73	\$ 902.81	\$ 1,504.68	\$ 8,426.22	
2	922.2	Roland Avenue	LF	9.5	\$ 8,761.28	\$ 1,314.19	\$ 2,190.32	\$ 12,265.79	
1	421.2	South Shore Drive	LF	9.5	\$ 4,001.31	\$ 600.20	\$ 1,000.33	\$ 5,601.83	
2	1027.0	South Shore Drive	LF	9.5	\$ 9,756.03	\$ 1,463.40	\$ 2,439.01	\$ 13,658.44	
3	320.5	South Shore Drive	LF	9.5	\$ 3,044.37	\$ 456.66	\$ 761.09	\$ 4,262.12	
4	99.3	South Shore Drive	LF	9.5	\$ 943.26	\$ 141.49	\$ 235.81	\$ 1,320.56	
5	123.4	South Shore Drive	LF	9.5	\$ 1,171.92	\$ 175.79	\$ 292.98	\$ 1,640.69	
6	662.8	South Shore Drive	LF	9.5	\$ 6,296.51	\$ 944.48	\$ 1,574.13	\$ 8,815.11	
7	701.5	South Shore Drive	LF	9.5	\$ 6,664.35	\$ 999.65	\$ 1,666.09	\$ 9,330.08	
8	810.1	South Shore Drive	LF	9.5	\$ 7,695.86	\$ 1,154.38	\$ 1,923.96	\$ 10,774.20	
9	255.9	South Shore Drive	LF	9.5	\$ 2,431.15	\$ 364.67	\$ 607.79	\$ 3,403.60	
10	293.2	South Shore Drive	LF	9.5	\$ 2,785.31	\$ 417.80	\$ 696.33	\$ 3,899.43	
11	377.1	South Shore Drive	LF	9.5	\$ 3,582.64	\$ 537.40	\$ 895.66	\$ 5,015.70	
12	354.6	South Shore Drive	LF	9.5	\$ 3,368.99	\$ 505.35	\$ 842.25	\$ 4,716.58	
<b>Total LF:</b>	<b>7002.3</b>							<b>\$ 93,130.32</b>	

Table 2-Roland Avenue and South Shore Drive

Phase 1									
Sidewalk	Linear Footage*	Runs Parallel With:	Unit	Unit Cost	Ext'd	Contingency	OH & Profit	Total Cost	
1	633.6	Roland Avenue	LF	9.5	\$ 6,018.73	\$ 902.81	\$ 1,504.68	\$ 8,426.22	
2	922.2	Roland Avenue	LF	9.5	\$ 8,761.28	\$ 1,314.19	\$ 2,190.32	\$ 12,265.79	
1	421.2	South Shore Drive	LF	9.5	\$ 4,001.31	\$ 600.20	\$ 1,000.33	\$ 5,601.83	
2	1027.0	South Shore Drive	LF	9.5	\$ 9,756.03	\$ 1,463.40	\$ 2,439.01	\$ 13,658.44	
3	320.5	South Shore Drive	LF	9.5	\$ 3,044.37	\$ 456.66	\$ 761.09	\$ 4,262.12	
4	99.3	South Shore Drive	LF	9.5	\$ 943.26	\$ 141.49	\$ 235.81	\$ 1,320.56	
5	123.4	South Shore Drive	LF	9.5	\$ 1,171.92	\$ 175.79	\$ 292.98	\$ 1,640.69	
6	662.8	South Shore Drive	LF	9.5	\$ 6,296.51	\$ 944.48	\$ 1,574.13	\$ 8,815.11	
7	701.5	South Shore Drive	LF	9.5	\$ 6,664.35	\$ 999.65	\$ 1,666.09	\$ 9,330.08	
8	810.1	South Shore Drive	LF	9.5	\$ 7,695.86	\$ 1,154.38	\$ 1,923.96	\$ 10,774.20	
9	255.9	South Shore Drive	LF	9.5	\$ 2,431.15	\$ 364.67	\$ 607.79	\$ 3,403.60	
10	293.2	South Shore Drive	LF	9.5	\$ 2,785.31	\$ 417.80	\$ 696.33	\$ 3,899.43	
11	377.1	South Shore Drive	LF	9.5	\$ 3,582.64	\$ 537.40	\$ 895.66	\$ 5,015.70	
12	354.6	South Shore Drive	LF	9.5	\$ 3,368.99	\$ 505.35	\$ 842.25	\$ 4,716.58	
<b>Total LF:</b>	<b>7002.3</b>							<b>\$ 93,130.32</b>	

Table 3-Central Business District

Phase 2									
Sidewalk	Linear Footage*	Runs Parallel With:	Unit	Unit Cost	Ext'd	Contingency	OH & Profit	Total Cost	
1	211.8	South Topsail Drive	LF	9.5	\$ 2,012.10	\$ 301.82	\$ 503.03	\$ 2,816.94	
2	376.4	South Topsail Drive	LF	9.5	\$ 3,575.80	\$ 536.37	\$ 893.95	\$ 5,006.12	
3	292.7	High Point Avenue	LF	9.5	\$ 2,780.65	\$ 417.10	\$ 695.16	\$ 3,892.91	
4	270.9	Kinston Avenue	LF	9.5	\$ 2,573.55	\$ 386.03	\$ 643.39	\$ 3,602.97	
5	375.7	South Shore Drive	LF	9.5	\$ 3,569.15	\$ 535.37	\$ 892.29	\$ 4,996.81	
6	585.4	South Shore Drive	LF	9.5	\$ 5,561.30	\$ 834.20	\$ 1,390.33	\$ 7,785.82	
7	258.8	Kinston Avenue	LF	9.5	\$ 2,458.60	\$ 368.79	\$ 614.65	\$ 3,442.04	
8	212.7	South Topsail Drive	LF	9.5	\$ 2,020.65	\$ 303.10	\$ 505.16	\$ 2,828.91	
9	481.2	South Shore Drive	LF	9.5	\$ 4,571.40	\$ 685.71	\$ 1,142.85	\$ 6,399.96	
10	262.1	Roland Avenue	LF	9.5	\$ 2,489.95	\$ 373.49	\$ 622.49	\$ 3,485.93	
11	224.1	Kinston Avenue	LF	9.5	\$ 2,128.95	\$ 319.34	\$ 532.24	\$ 2,980.53	
12	492.9	New River Drive South	LF	9.5	\$ 4,682.55	\$ 702.38	\$ 1,170.64	\$ 6,555.57	
13	802.8	New River Drive South/ Kinston Avenue	LF	9.5	\$ 7,626.60	\$ 1,143.99	\$ 1,906.65	\$ 10,677.24	
14	229.9	Roland Avenue	LF	9.5	\$ 2,184.05	\$ 327.61	\$ 546.01	\$ 3,057.67	
15	507.2	South Topsail Drive	LF	9.5	\$ 4,818.40	\$ 722.76	\$ 1,204.60	\$ 6,745.76	
16	239.2	Roland Avenue	LF	9.5	\$ 2,272.40	\$ 340.86	\$ 568.10	\$ 3,181.36	
17	699.4	New River Drive North	LF	9.5	\$ 6,644.30	\$ 996.65	\$ 1,661.08	\$ 9,302.02	
18	510.6	North Topsail Drive	LF	9.5	\$ 4,850.70	\$ 727.61	\$ 1,212.68	\$ 6,790.98	
19	93.4	North Topsail Drive	LF	9.5	\$ 887.49	\$ 133.12	\$ 221.87	\$ 1,242.49	
20	128.6	Roland Avenue	LF	9.5	\$ 1,222.08	\$ 183.31	\$ 305.52	\$ 1,710.91	
21	80.3	North Shore Drive	LF	9.5	\$ 762.85	\$ 114.43	\$ 190.71	\$ 1,067.99	
22	286.4	North/South Shore Drive	LF	9.5	\$ 2,720.80	\$ 408.12	\$ 680.20	\$ 3,809.12	
23	105.5	North Shore Drive	LF	9.5	\$ 1,002.25	\$ 150.34	\$ 250.56	\$ 1,403.15	
24	470.9	North Shore Drive	LF	9.5	\$ 4,473.55	\$ 671.03	\$ 1,118.39	\$ 6,262.97	
25	261.5	North Topsail Drive	LF	9.5	\$ 2,484.25	\$ 372.64	\$ 621.06	\$ 3,477.95	
26	145.7	Greensboro Avenue	LF	9.5	\$ 1,384.15	\$ 207.62	\$ 346.04	\$ 1,937.81	
27	812.7	New River Drive North	LF	9.5	\$ 7,720.65	\$ 1,158.10	\$ 1,930.16	\$ 10,808.91	
28	26.2	New River Drive North	LF	9.5	\$ 249.19	\$ 37.38	\$ 62.30	\$ 348.86	

<b>29</b>	64.4	New River Drive North	LF	9.5	\$ 611.52	\$ 91.73	\$ 152.88	\$ 856.12
<b>30</b>	118.1	Goldsboro Avenue	LF	9.5	\$ 1,121.95	\$ 168.29	\$ 280.49	\$ 1,570.73
<b>31</b>	24.5	Goldsboro Avenue	LF	9.5	\$ 232.47	\$ 34.87	\$ 58.12	\$ 325.45
<b>32</b>	115.1	North Topsail Drive	LF	9.5	\$ 1,093.45	\$ 164.02	\$ 273.36	\$ 1,530.83
<b>33</b>	644.5	North Topsail Drive	LF	9.5	\$ 6,122.75	\$ 918.41	\$ 1,530.69	\$ 8,571.85
<b>34</b>	103.9	Goldsboro Avenue	LF	9.5	\$ 987.05	\$ 148.06	\$ 246.76	\$ 1,381.87
<b>35</b>	202.0	North Shore Drive	LF	9.5	\$ 1,919.00	\$ 287.85	\$ 479.75	\$ 2,686.60
<b>36</b>	248.4	North Shore Drive	LF	9.5	\$ 2,359.80	\$ 353.97	\$ 589.95	\$ 3,303.72
<b>37</b>	469.3	North Shore Drive	LF	9.5	\$ 4,458.35	\$ 668.75	\$ 1,114.59	\$ 6,241.69
<b>38</b>	77.1	North Shore Drive	LF	9.5	\$ 732.45	\$ 109.87	\$ 183.11	\$ 1,025.43
<b>39</b>	347.2	North Shore Drive	LF	9.5	\$ 3,298.40	\$ 494.76	\$ 824.60	\$ 4,617.76
<b>40</b>	270.8	North Shore Drive	LF	9.5	\$ 2,572.60	\$ 385.89	\$ 643.15	\$ 3,601.64
<b>41</b>	170.3	North Topsail Drive	LF	9.5	\$ 1,617.85	\$ 242.68	\$ 404.46	\$ 2,264.99
<b>42</b>	263.5	New River Drive North	LF	9.5	\$ 2,503.25	\$ 375.49	\$ 625.81	\$ 3,504.55
<b>43</b>	153.4	New River Drive North	LF	9.5	\$ 1,457.30	\$ 218.60	\$ 364.33	\$ 2,040.22
<b>44</b>	394.7	New River Drive North	LF	9.5	\$ 3,749.65	\$ 562.45	\$ 937.41	\$ 5,249.51
<b>45</b>	366.2	New River Drive North	LF	9.5	\$ 3,478.90	\$ 521.84	\$ 869.73	\$ 4,870.46
<b>46</b>	227.1	New River Drive North	LF	9.5	\$ 2,157.45	\$ 323.62	\$ 539.36	\$ 3,020.43
<b>47</b>	155.6	North Topsail Drive	LF	9.5	\$ 1,478.20	\$ 221.73	\$ 369.55	\$ 2,069.48
<b>48</b>	246.3	New Bern Avenue	LF	9.5	\$ 2,339.85	\$ 350.98	\$ 584.96	\$ 3,275.79
<b>49</b>	186.6	New Bern Avenue	LF	9.5	\$ 1,772.70	\$ 265.91	\$ 443.18	\$ 2,481.78
<b>50</b>	461.7	North Shore Drive	LF	9.5	\$ 4,386.15	\$ 657.92	\$ 1,096.54	\$ 6,140.61
<b>51</b>	62.8	North Shore Drive	LF	9.5	\$ 596.60	\$ 89.49	\$ 149.15	\$ 835.24
<b>Total LF:</b>	<b>14,818.53</b>						<b>\$</b>	<b>197,086.45</b>

Table 4-New Bern Avenue North to Shell Drive

Phase 3								
Sidewalk	Linear Footage*	Runs Parallel With:	Unit	Unit Cost	Ext'd	Contingency	OH & Profit	Total Cost
3	2032.9	Wilmington Avenue	LF	9.5	\$ 19,312.55	\$ 2,896.88	\$ 4,828.14	\$ 27,037.57
4	593.1	New River Drive North	LF	9.5	\$ 5,634.45	\$ 845.17	\$ 1,408.61	\$ 7,888.23
5	293.2	New River Drive North	LF	9.5	\$ 2,785.40	\$ 417.81	\$ 696.35	\$ 3,899.56
6	237.7	New Bern Avenue	LF	9.5	\$ 2,258.15	\$ 338.72	\$ 564.54	\$ 3,161.41
7	493.0	North Topsail Drive	LF	9.5	\$ 4,683.50	\$ 702.53	\$ 1,170.88	\$ 6,556.90
8	152.0	Wilmington Avenue	LF	9.5	\$ 1,444.00	\$ 216.60	\$ 361.00	\$ 2,021.60
9	101.0	New Bern Avenue	LF	9.5	\$ 959.50	\$ 143.93	\$ 239.88	\$ 1,343.30
10	687.8	North Shore Drive	LF	9.5	\$ 6,534.10	\$ 980.12	\$ 1,633.53	\$ 9,147.74
11	162.8	Wilmington Avenue	LF	9.5	\$ 1,546.60	\$ 231.99	\$ 386.65	\$ 2,165.24
12	159.2	Wilmington Avenue	LF	9.5	\$ 1,512.40	\$ 226.86	\$ 378.10	\$ 2,117.36
13	175.6	Wilmington Avenue	LF	9.5	\$ 1,668.20	\$ 250.23	\$ 417.05	\$ 2,335.48
14	1256.0	North Topsail Drive	LF	9.5	\$ 11,932.00	\$ 1,789.80	\$ 2,983.00	\$ 16,704.80
15	1108.4	North Shore Drive	LF	9.5	\$ 10,529.80	\$ 1,579.47	\$ 2,632.45	\$ 14,741.72
16	325.5	New River Drive North	LF	9.5	\$ 3,092.25	\$ 463.84	\$ 773.06	\$ 4,329.15
17	4583.5	New River Drive North	LF	9.5	\$ 43,543.25	\$ 6,531.49	\$ 10,885.81	\$ 60,960.55
18	305.6	Dolphin Street	LF	9.5	\$ 2,903.20	\$ 435.48	\$ 725.80	\$ 4,064.48
19	283.2	Dolphin Street	LF	9.5	\$ 2,690.40	\$ 403.56	\$ 672.60	\$ 3,766.56
20	327.4	New River Drive North	LF	9.5	\$ 3,110.30	\$ 466.55	\$ 777.58	\$ 4,354.42
21	506.5	Shell Drive	LF	9.5	\$ 4,811.75	\$ 721.76	\$ 1,202.94	\$ 6,736.45
<b>Total LF:</b>	<b>13,784.40</b>							<b>\$ 183,332.52</b>

Table 5-Shell Drive North to Jones Avenue

Phase 4									
Sidewalk	Linear Footage*	Runs Parallel With:	Unit	Unit Cost	Ext'd	Contingency	OH & Profit	Total Cost	
22	367.6	Shell Drive	LF	9.5	\$ 3,492.20	\$ 523.83	\$ 873.05	\$ 4,889.08	
23	255.0	New River Drive North	LF	9.5	\$ 2,422.50	\$ 363.38	\$ 605.63	\$ 3,391.50	
24	571.3	North Topsail Drive	LF	9.5	\$ 5,427.35	\$ 814.10	\$ 1,356.84	\$ 7,598.29	
25	314.0	Mecklenburg Avenue	LF	9.5	\$ 2,983.00	\$ 447.45	\$ 745.75	\$ 4,176.20	
26	329.9	North Topsail Drive	LF	9.5	\$ 3,134.05	\$ 470.11	\$ 783.51	\$ 4,387.67	
27	316.2	Mecklenburg Avenue	LF	9.5	\$ 3,003.90	\$ 450.59	\$ 750.98	\$ 4,205.46	
28	257.4	Mecklenburg Avenue	LF	9.5	\$ 2,445.30	\$ 366.80	\$ 611.33	\$ 3,423.42	
29	193.4	North Shore Drive	LF	9.5	\$ 1,837.30	\$ 275.60	\$ 459.33	\$ 2,572.22	
30	265.5	Mecklenburg Avenue	LF	9.5	\$ 2,522.25	\$ 378.34	\$ 630.56	\$ 3,531.15	
31	262.3	North Topsail Drive	LF	9.5	\$ 2,491.85	\$ 373.78	\$ 622.96	\$ 3,488.59	
32	202.7	North Topsail Drive	LF	9.5	\$ 1,925.65	\$ 288.85	\$ 481.41	\$ 2,695.91	
33	281.5	Craven Avenue	LF	9.5	\$ 2,674.25	\$ 401.14	\$ 668.56	\$ 3,743.95	
34	281.2	Craven Avenue	LF	9.5	\$ 2,671.40	\$ 400.71	\$ 667.85	\$ 3,739.96	
35	256.4	Craven Avenue	LF	9.5	\$ 2,435.80	\$ 365.37	\$ 608.95	\$ 3,410.12	
36	255.4	North Shore Drive	LF	9.5	\$ 2,426.30	\$ 363.95	\$ 606.58	\$ 3,396.82	
37	255.4	Craven Avenue	LF	9.5	\$ 2,426.30	\$ 363.95	\$ 606.58	\$ 3,396.82	
38	296.6	North Topsail Drive	LF	9.5	\$ 2,817.70	\$ 422.66	\$ 704.43	\$ 3,944.78	
39	205.7	North Topsail Drive	LF	9.5	\$ 1,954.15	\$ 293.12	\$ 488.54	\$ 2,735.81	
40	223.9	North Shore Drive	LF	9.5	\$ 2,127.05	\$ 319.06	\$ 531.76	\$ 2,977.87	
41	98.9	North Shore Drive	LF	9.5	\$ 939.55	\$ 140.93	\$ 234.89	\$ 1,315.37	
42	100.7	North Shore Drive	LF	9.5	\$ 956.65	\$ 143.50	\$ 239.16	\$ 1,339.31	
43	236.6	Jones Avenue	LF	9.5	\$ 2,247.70	\$ 337.16	\$ 561.93	\$ 3,146.78	
45	248.6	Jones Avenue	LF	9.5	\$ 2,361.70	\$ 354.26	\$ 590.43	\$ 3,306.38	
<b>Total LF:</b>	<b>6,076.20</b>							<b>\$ 80,813.46</b>	

Table 6-Jones Avenue North to Broadway Street

Phase 5								
Sidewalk	Linear Footage*	Runs Parallel With:	Unit	Unit Cost	Ext'd	Contingency	OH & Profit	Total Cost
44	235.7	Jones Avenue	LF	9.5	\$ 2,239.15	\$ 335.87	\$ 559.79	\$ 3,134.81
46	2476.3	Jones Avenue	LF	9.5	\$ 23,524.85	\$ 3,528.73	\$ 5,881.21	\$ 32,934.79
47	119.2	North Topsail Drive	LF	9.5	\$ 1,132.40	\$ 169.86	\$ 283.10	\$ 1,585.36
48	342.1	North Topsail Drive	LF	9.5	\$ 3,249.95	\$ 487.49	\$ 812.49	\$ 4,549.93
49	367.8	North Shore Drive	LF	9.5	\$ 3,494.10	\$ 524.12	\$ 873.53	\$ 4,891.74
50	136.2	North Shore Drive	LF	9.5	\$ 1,293.90	\$ 194.09	\$ 323.48	\$ 1,811.46
51	205.0	Lenior Avenue	LF	9.5	\$ 1,947.50	\$ 292.13	\$ 486.88	\$ 2,726.50
52	219.3	Lenior Avenue	LF	9.5	\$ 2,083.35	\$ 312.50	\$ 520.84	\$ 2,916.69
53	208.4	Lenior Avenue	LF	9.5	\$ 1,979.80	\$ 296.97	\$ 494.95	\$ 2,771.72
54	115.5	Lenior Avenue	LF	9.5	\$ 1,097.25	\$ 164.59	\$ 274.31	\$ 1,536.15
55	246.5	North Topsail Drive	LF	9.5	\$ 2,341.75	\$ 351.26	\$ 585.44	\$ 3,278.45
56	236.6	North Topsail Drive	LF	9.5	\$ 2,247.70	\$ 337.16	\$ 561.93	\$ 3,146.78
57	174.0	Pender Avenue	LF	9.5	\$ 1,653.00	\$ 247.95	\$ 413.25	\$ 2,314.20
58	366.1	North Shore Drive	LF	9.5	\$ 3,477.95	\$ 521.69	\$ 869.49	\$ 4,869.13
59	244.0	North Shore Drive	LF	9.5	\$ 2,318.00	\$ 347.70	\$ 579.50	\$ 3,245.20
60	199.7	Pender Avenue	LF	9.5	\$ 1,897.15	\$ 284.57	\$ 474.29	\$ 2,656.01
61	185.8	Pender Avenue	LF	9.5	\$ 1,765.10	\$ 264.77	\$ 441.28	\$ 2,471.14
62	475.3	North Shore Drive	LF	9.5	\$ 4,515.35	\$ 677.30	\$ 1,128.84	\$ 6,321.49
63	213.3	Neptune Place	LF	9.5	\$ 2,026.35	\$ 303.95	\$ 506.59	\$ 2,836.89
64	66.8	Pender Avenue	LF	9.5	\$ 634.60	\$ 95.19	\$ 158.65	\$ 888.44
65	520.5	North Topsail Drive	LF	9.5	\$ 4,944.75	\$ 741.71	\$ 1,236.19	\$ 6,922.65
66	314.5	Pender Avenue	LF	9.5	\$ 2,987.75	\$ 448.16	\$ 746.94	\$ 4,182.85
67	100.1	New River Drive North	LF	9.5	\$ 950.95	\$ 142.64	\$ 237.74	\$ 1,331.33
68	78.5	New River Drive North	LF	9.5	\$ 745.75	\$ 111.86	\$ 186.44	\$ 1,044.05
69	140.4	Neptune Place	LF	9.5	\$ 1,333.80	\$ 200.07	\$ 333.45	\$ 1,867.32
70	252.9	New River Drive North	LF	9.5	\$ 2,402.55	\$ 360.38	\$ 600.64	\$ 3,363.57
72	354.4	Neptune Place	LF	9.5	\$ 3,366.80	\$ 505.02	\$ 841.70	\$ 4,713.52
73	281.1	North Shore Drive	LF	9.5	\$ 2,670.45	\$ 400.57	\$ 667.61	\$ 3,738.63
<b>Total LF:</b>	<b>8,876.00</b>							<b>\$ 118,050.80</b>

Table 7-Broadway Street North to 9<sup>th</sup> Street

Phase 6									
Sidewalk	Linear Footage*	Runs Parallel With:	Unit	Unit Cost	Ext'd	Contingency	OH & Profit	Total Cost	
71	122.1	Broadway Street	LF	9.5	\$ 1,159.95	\$ 173.99	\$ 289.99	\$	\$ 1,623.93
74	1227.7	North Shore Drive	LF	9.5	\$ 11,663.15	\$ 1,749.47	\$ 2,915.79	\$	\$ 16,328.41
75	109.3	New River Drive North	LF	9.5	\$ 1,038.35	\$ 155.75	\$ 259.59	\$	\$ 1,453.69
76	333.5	1st Street	LF	9.5	\$ 3,168.25	\$ 475.24	\$ 792.06	\$	\$ 4,435.55
77	237.1	Broadway Street	LF	9.5	\$ 2,252.45	\$ 337.87	\$ 563.11	\$	\$ 3,153.43
78	273.8	Canal Street	LF	9.5	\$ 2,601.10	\$ 390.17	\$ 650.28	\$	\$ 3,641.54
79	274.6	Canal Street	LF	9.5	\$ 2,608.70	\$ 391.31	\$ 652.18	\$	\$ 3,652.18
80	402.9	1st Street	LF	9.5	\$ 3,827.55	\$ 574.13	\$ 956.89	\$	\$ 5,358.57
81	390.9	2nd Street	LF	9.5	\$ 3,713.55	\$ 557.03	\$ 928.39	\$	\$ 5,198.97
82	261.8	New River Drive North	LF	9.5	\$ 2,487.10	\$ 373.07	\$ 621.78	\$	\$ 3,481.94
83	398.6	2nd Street	LF	9.5	\$ 3,786.70	\$ 568.01	\$ 946.68	\$	\$ 5,301.38
84	272.8	New River Drive North	LF	9.5	\$ 2,591.60	\$ 388.74	\$ 647.90	\$	\$ 3,628.24
85	264.9	Canal Street	LF	9.5	\$ 2,516.55	\$ 377.48	\$ 629.14	\$	\$ 3,523.17
86	429.9	3rd Street	LF	9.5	\$ 4,084.05	\$ 612.61	\$ 1,021.01	\$	\$ 5,717.67
87	429.2	3rd Street	LF	9.5	\$ 4,077.40	\$ 611.61	\$ 1,019.35	\$	\$ 5,708.36
88	269.3	New River Drive North	LF	9.5	\$ 2,558.35	\$ 383.75	\$ 639.59	\$	\$ 3,581.69
89	275.9	Canal Street	LF	9.5	\$ 2,621.05	\$ 393.16	\$ 655.26	\$	\$ 3,669.47
90	401.7	4th Street	LF	9.5	\$ 3,816.15	\$ 572.42	\$ 954.04	\$	\$ 5,342.61
91	336.4	4th Street	LF	9.5	\$ 3,195.80	\$ 479.37	\$ 798.95	\$	\$ 4,474.12
92	260.2	Canal Street	LF	9.5	\$ 2,471.90	\$ 370.79	\$ 617.98	\$	\$ 3,460.66
93	371.7	5th Street	LF	9.5	\$ 3,531.15	\$ 529.67	\$ 882.79	\$	\$ 4,943.61
94	239.3	New River Drive North	LF	9.5	\$ 2,273.35	\$ 341.00	\$ 568.34	\$	\$ 3,182.69
95	292.9	5th Street	LF	9.5	\$ 2,782.55	\$ 417.38	\$ 695.64	\$	\$ 3,895.57
96	290.0	5th Street	LF	9.5	\$ 2,755.00	\$ 413.25	\$ 688.75	\$	\$ 3,857.00
97	238.9	New River Drive North	LF	9.5	\$ 2,269.55	\$ 340.43	\$ 567.39	\$	\$ 3,177.37
98	343.8	5th Street	LF	9.5	\$ 3,266.10	\$ 489.92	\$ 816.53	\$	\$ 4,572.54
99	264.9	Canal Street	LF	9.5	\$ 2,516.55	\$ 377.48	\$ 629.14	\$	\$ 3,523.17
100	398.2	6th Street	LF	9.5	\$ 3,782.90	\$ 567.44	\$ 945.73	\$	\$ 5,296.06

<b>101</b>	273.4	Canal Street	LF	9.5	\$ 2,597.30	\$ 389.60	\$ 649.33	\$ 3,636.22
<b>102</b>	395.3	6th Street	LF	9.5	\$ 3,755.35	\$ 563.30	\$ 938.84	\$ 5,257.49
<b>103</b>	336.0	7th Street	LF	9.5	\$ 3,192.00	\$ 478.80	\$ 798.00	\$ 4,468.80
<b>104</b>	272.3	New River Drive North	LF	9.5	\$ 2,586.85	\$ 388.03	\$ 646.71	\$ 3,621.59
<b>105</b>	187.9	New River Drive North	LF	9.5	\$ 1,785.05	\$ 267.76	\$ 446.26	\$ 2,499.07
<b>106</b>	1248.6	North Shore Drive	LF	9.5	\$ 11,861.70	\$ 1,779.26	\$ 2,965.43	\$ 16,606.38
<b>107</b>	311.6	9th Street	LF	9.5	\$ 2,960.20	\$ 444.03	\$ 740.05	\$ 4,144.28
<b>108</b>	275.8	New River Drive North	LF	9.5	\$ 2,620.10	\$ 393.02	\$ 655.03	\$ 3,668.14
<b>109</b>	147.1	New River Drive North	LF	9.5	\$ 1,397.45	\$ 209.62	\$ 349.36	\$ 1,956.43
<b>110</b>	784.8	8th Street	LF	9.5	\$ 7,455.60	\$ 1,118.34	\$ 1,863.90	\$ 10,437.84
<b>111</b>	1010.0	9th Street	LF	9.5	\$ 9,595.00	\$ 1,439.25	\$ 2,398.75	\$ 13,433.00
<b>Total LF:</b>	<b>14,655.10</b>							<b>\$ 194,912.83</b>

Table 8-High Point Avenue South to Merge of South Shore and Topsail Drives

Phase 7									
Sidewalk	Linear Footage*	Runs Parallel With:	Unit	Unit Cost	Ext'd	Contingency	OH & Profit	Total Cost	
1	682.9	South Topsail Drive	LF	9.5	\$ 6,487.55	\$ 973.13	\$ 1,621.89	\$ 9,082.57	
2	295.6	South Topsail Drive	LF	9.5	\$ 2,808.20	\$ 421.23	\$ 702.05	\$ 3,931.48	
3	447.2	Harbor Drive	LF	9.5	\$ 4,248.40	\$ 637.26	\$ 1,062.10	\$ 5,947.76	
4	843.3	Harbor Drive	LF	9.5	\$ 8,011.35	\$ 1,201.70	\$ 2,002.84	\$ 11,215.89	
5	1274.5	Harbor Drive	LF	9.5	\$ 12,107.75	\$ 1,816.16	\$ 3,026.94	\$ 16,950.85	
6	240.5	South Topsail Drive	LF	9.5	\$ 2,284.75	\$ 342.71	\$ 571.19	\$ 3,198.65	
7	305.5	Quarter Horse Drive	LF	9.5	\$ 2,902.25	\$ 435.34	\$ 725.56	\$ 4,063.15	
8	307.7	Quarter Horse Drive	LF	9.5	\$ 2,923.15	\$ 438.47	\$ 730.79	\$ 4,092.41	
9	322.6	South Topsail Drive	LF	9.5	\$ 3,064.70	\$ 459.71	\$ 766.18	\$ 4,290.58	
10	919.6	South Topsail Drive	LF	9.5	\$ 8,736.20	\$ 1,310.43	\$ 2,184.05	\$ 12,230.68	
11	457.0	Sea Horse Drive	LF	9.5	\$ 4,341.50	\$ 651.23	\$ 1,085.38	\$ 6,078.10	
12	428.1	Sea Horse Drive	LF	9.5	\$ 4,066.95	\$ 610.04	\$ 1,016.74	\$ 5,693.73	
13	228.9	South Topsail Drive	LF	9.5	\$ 2,174.55	\$ 326.18	\$ 543.64	\$ 3,044.37	
14	432.9	South Topsail Drive	LF	9.5	\$ 4,112.55	\$ 616.88	\$ 1,028.14	\$ 5,757.57	
15	350.0	Charlotte Avenue	LF	9.5	\$ 3,325.00	\$ 498.75	\$ 831.25	\$ 4,655.00	
16	299.7	Charlotte Avenue	LF	9.5	\$ 2,847.15	\$ 427.07	\$ 711.79	\$ 3,986.01	
17	1313.4	South Topsail Drive	LF	9.5	\$ 12,477.30	\$ 1,871.60	\$ 3,119.33	\$ 17,468.22	
18	290.2	Durham Avenue	LF	9.5	\$ 2,756.90	\$ 413.54	\$ 689.23	\$ 3,859.66	
19	311.4	Durham Avenue	LF	9.5	\$ 2,958.30	\$ 443.75	\$ 739.58	\$ 4,141.62	
20	287.8	Raleigh Avenue	LF	9.5	\$ 2,734.10	\$ 410.12	\$ 683.53	\$ 3,827.74	
21	287.9	Raleigh Avenue	LF	9.5	\$ 2,735.05	\$ 410.26	\$ 683.76	\$ 3,829.07	
22	262.6	High Point Avenue	LF	9.5	\$ 2,494.70	\$ 374.21	\$ 623.68	\$ 3,492.58	
<b>Total LF:</b>	<b>10,589.30</b>							<b>\$ 140,837.69</b>	

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Town of Surf City  
Sidewalk Infrastructure Expansion  
December 2008