

MANAGED PARKING PROGRAM

STATUS MEETING

ISLE OF PALMS

NO

TIME

AUGUST 21, 2014

Agenda

Review of Work Scope **2**On-Street Parking Review **3** On-Street Parking Verification **4** Traffic/Parking Data Collection & Study 5 Managed Parking Program Implementation 6 Next Steps



1 Review of Work Scope





Review of Work Scope

| ΤΑSΚ | CONTRACT DATES | Status |
|---|--|----------|
| 1) On-Street Parking Review | November 1, 2013 to December 31, 2013 | Complete |
| 2) On-Street Parking Verification | January 1, 2014 to February 28, 2014 | Complete |
| 3) Parking Permit Program Implementation Plan | January 1, 2014 to December 31, 2014 | Ongoing |







Tasks

- Determine roadways where on-street parking can be accommodated with a four-foot buffer
- Charleston County GIS files
- Sight Distance Review at Intersections

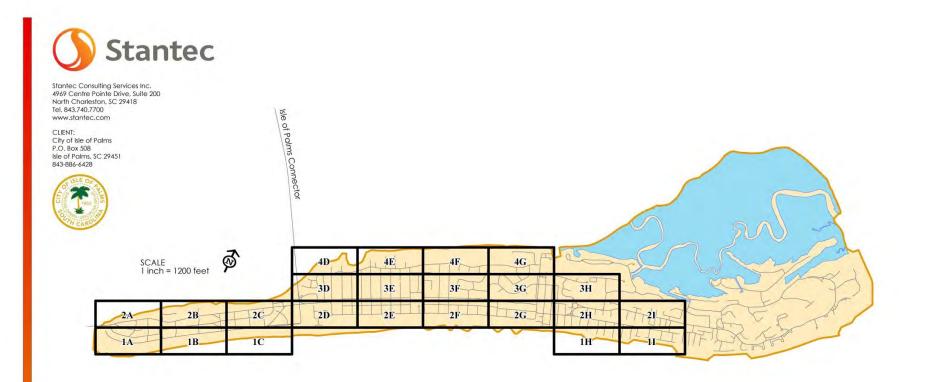
Deliverable

• GIS Map Book



| Area | AVAILABLE CLEARANCE | BUFFER TO PAVEMENT | Parking Stall | BUFFER TO PROPERTY LINE |
|--------|---------------------------------------|--|------------------|----------------------------|
| GREEN | 16 feet + | 4 feet | 8 feet | 4 feet + |
| BLUE | 14-16 feet | 4 feet | 8 feet | 2-4 feet |
| ORANGE | 8-14 feet | 0-4 feet | 8 feet | 0-2 feet |
| Red | <8 feet | Too narrow, on-Street parking cannot be accommodated | | |
| BLACK | Clear Zones, Fire Hydrants, Sidewalks | | | |





ON STREET PARKING REVIEW

ISLE OF PALMS, SC

DATE: MARCH 31, 2014

PROJECT NO: 171001448











1A





| AREA | AVAILABLE CLEARANCE | Total Length | TOTAL PARKING SPACES |
|--------|------------------------|--------------|-------------------------|
| GREEN | 16 feet + | 29.7 miles | 3,480 |
| BLUE | 14-16 feet | 3.1 miles | 360 |
| ORANGE | 8-14 feet | 6.0 miles | 700 |
| RED | <8 feet | 5.2 miles | 610 |
| BLACK | | 9.2 miles | |



On-Street Parking Conclusions

Summary

- The 4' off-the-road buffer does not reduce onstreet parking supply
- Not a Managed Parking Solution
- Abundant On-Street Parking Potential
- Does not consider obstructions
- Exceeds Beach Management Plan requirements



3 On-Street Parking Verification





On-Street Parking Verification

Tasks

- Field Review of obstructions blocking potential
 parking areas
- Determine difficulty in removing potential
 obstructions
- Determine actual available on-street parking areas

Deliverable

Field Review Summary & Obstruction Map





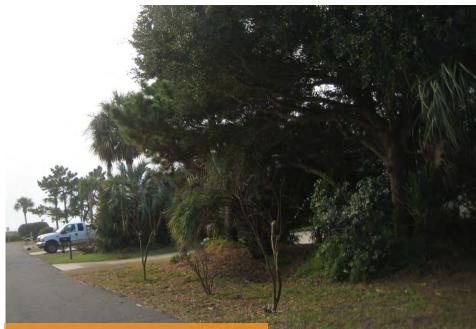




Charleston Boulevard







43rd Avenue

On-Street Parking Verification

Summary

- 625 existing parcels (32%) have obstructions in the ROW
- Difficulty of Removal
 - HIGH: 27% of obstructions
 - MEDIUM: 34% of obstructions
 - Low: 39% of obstructions
- Obstructions result in overall reduction of potential parking areas by 59%



On-Street Parking Verification

| Area | AVAILABLE CLEARANCE | Total Length | Total Parking Spaces | Obstructed Parking Spaces | UNOBSTRUCTED PARKING SPACES |
|--------|------------------------|-----------------|-------------------------|------------------------------|--------------------------------|
| GREEN | 16 feet + | 29.7 miles | 3,480 | 2,050 | 1,430 |
| BLUE | 14-16 feet | 3.1 miles | 360 | 210 | 150 |
| ORANGE | 8-14 feet | 6.0 miles | 700 | 410 | 290 |
| RED | <8 feet | 5.2 miles | 610 | 360 | 250 |
| BLACK | | 9.2 miles | | | |



On-Street Parking Conclusions

Summary

- Significant Amount of Obstructions Existing
- Considering obstructions, the 4' off-the-road buffer does not reduce on-street parking supply
- Not a Managed Parking Solution



4 Traffic/Parking Data Collection & Study





Traffic/Parking Data Collection & Study

Tasks

- Analysis of Historical and Current Traffic Count Data
- Parking Accumulation Study
 - Memorial Day weekend
 - Parking Counts via aerial surveys



Traffic/Parking Data Collection & Study

Deliverable

Traffic Analysis & Parking Accumulation Study



Data Collection

Sources

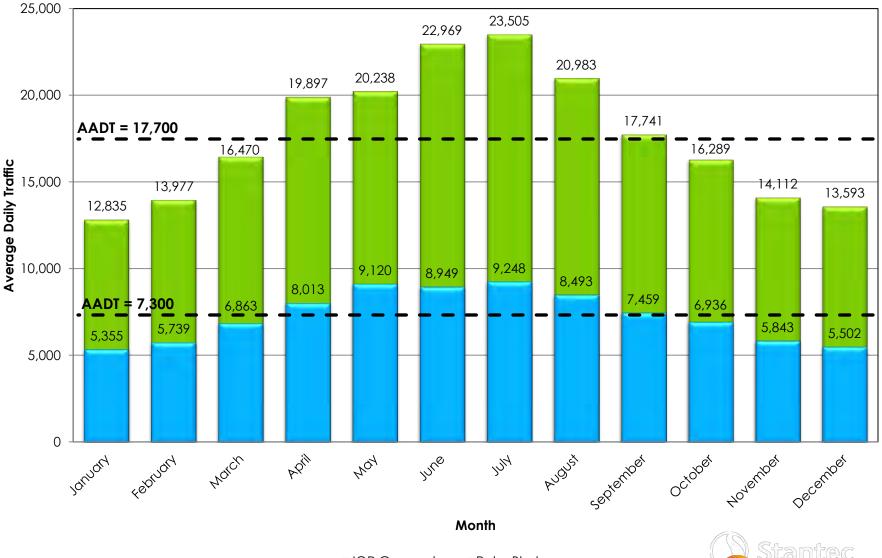
- IOP Permanent Count Stations
- SCDOT Permanent Count Station
- Memorial Day week and weekend counts

Traffic Counts

- Bi-directional Tube Counts at 7 locations:
 - IOP Connector, Palm Boulevard (4 locations), 21st Avenue, and 41st Avenue
 - 7 days of data
- Turning Movement Count at IOP Connector & Palm Boulevard intersection (9 hours)



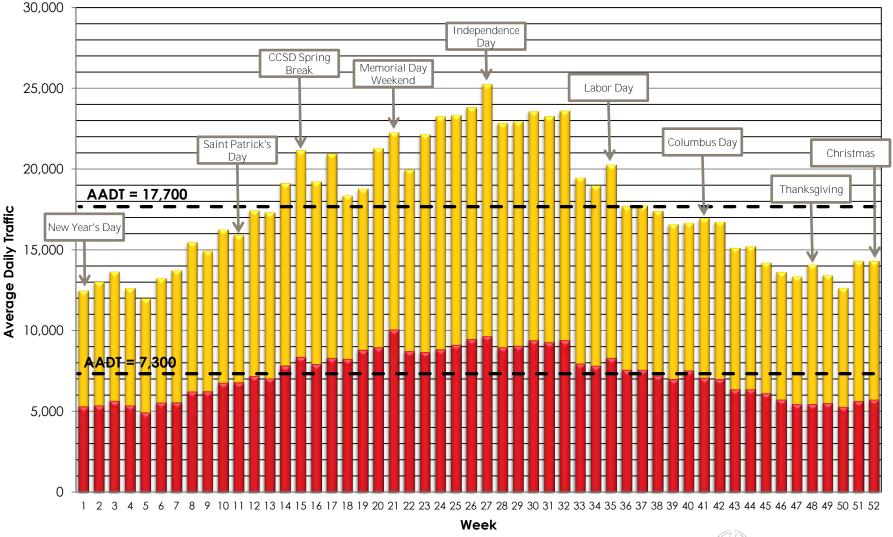
Average Monthly Traffic (IOP Conn. & Palm Bl.)



Source: Isle of Palms

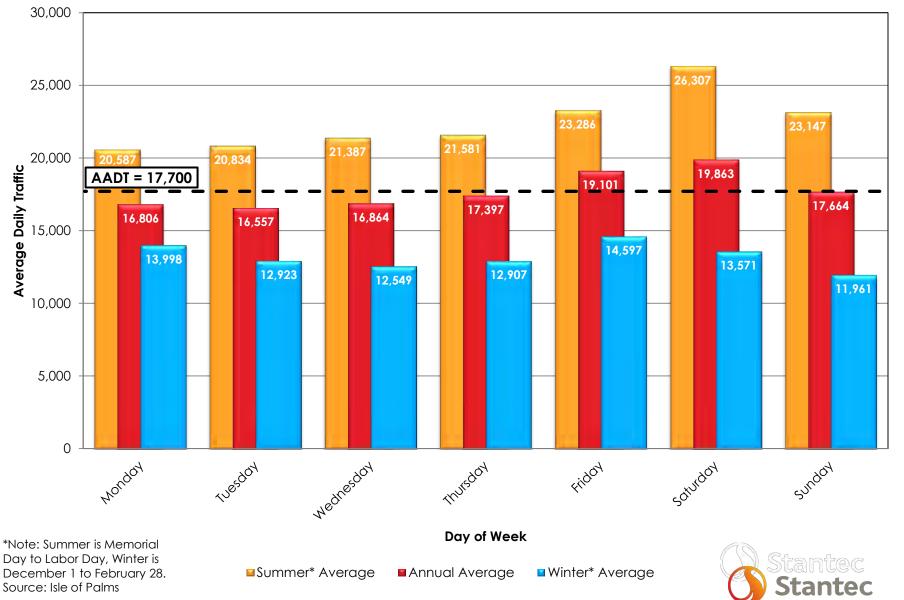
■ IOP Connector ■ Palm Blvd

Average Weekly Traffic (IOP Conn. & Palm Bl.)

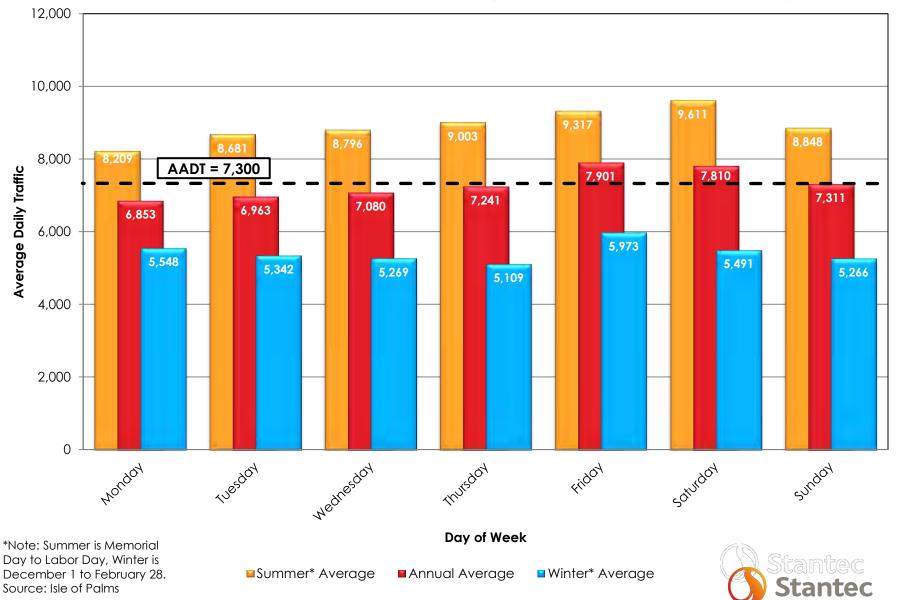


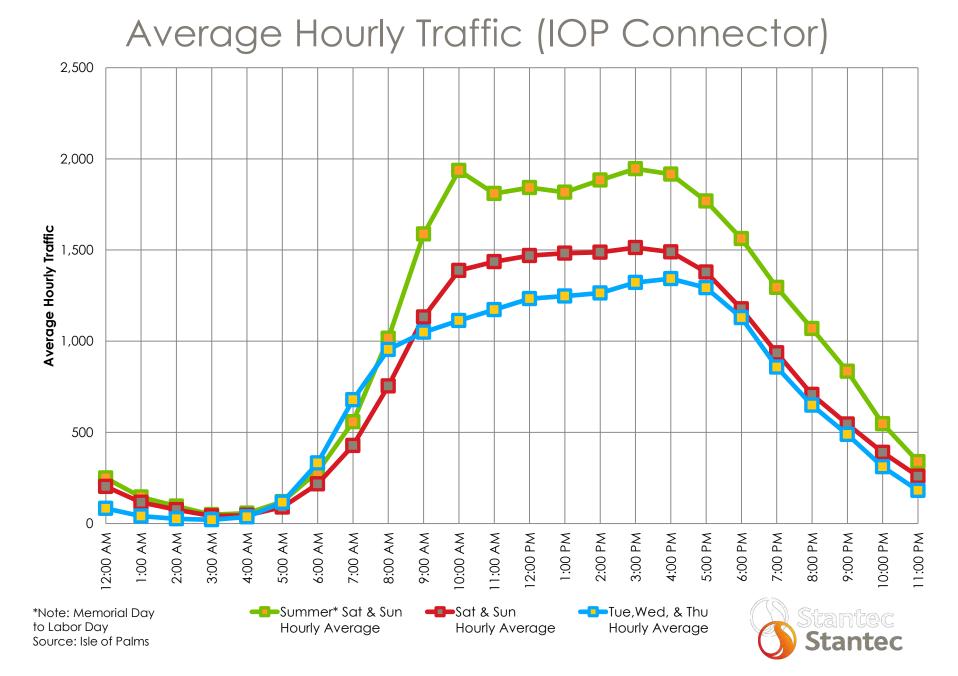


Average Daily Traffic (IOP Connector)

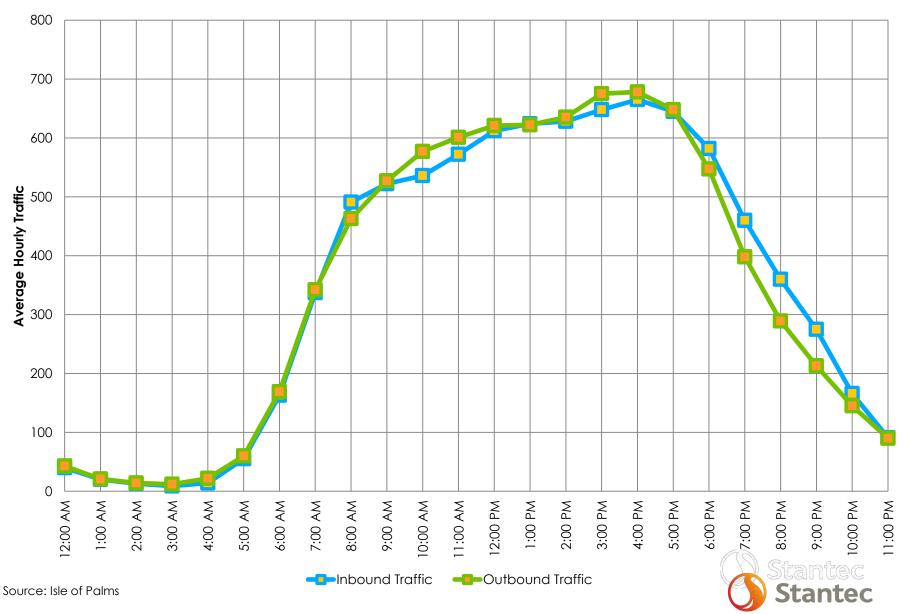


Average Daily Traffic (Palm Boulevard)

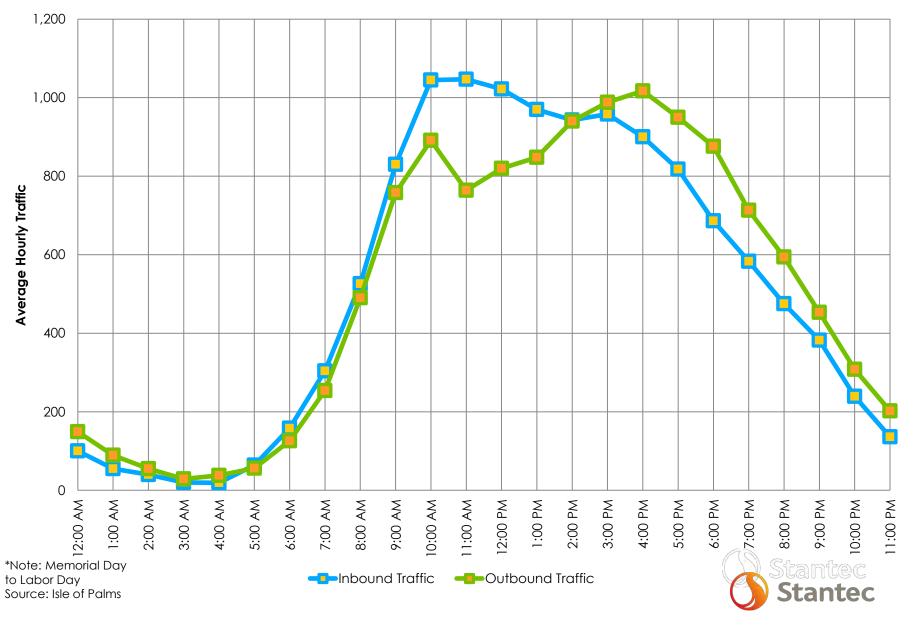




Directional Hourly Traffic (IOP Connector)



Directional Hourly Traffic (IOP Connector) - Summer



Permanent Count Station Data

Summary

 On the IOP Connector – IOP Permanent Count Station & SCDOT Permanent Count Station is Nearly Identical

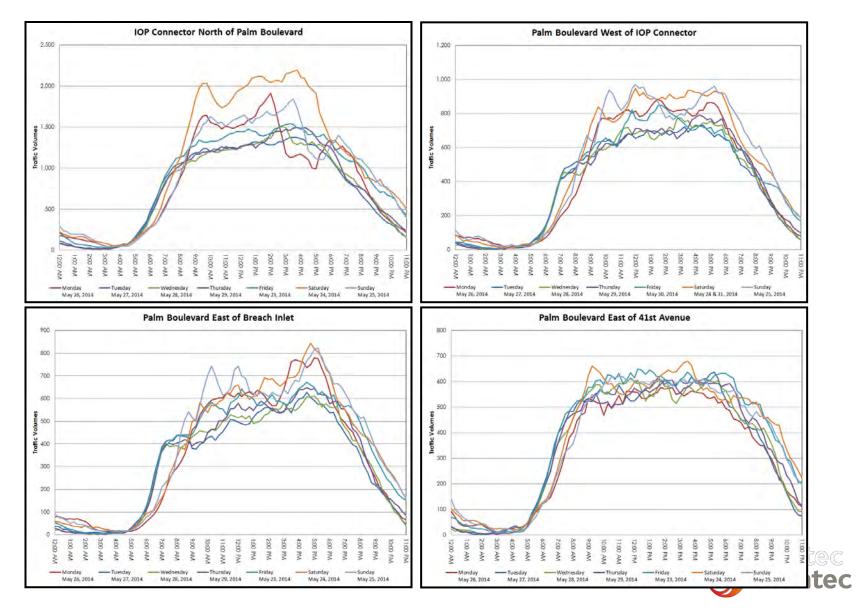


Traffic Count Locations

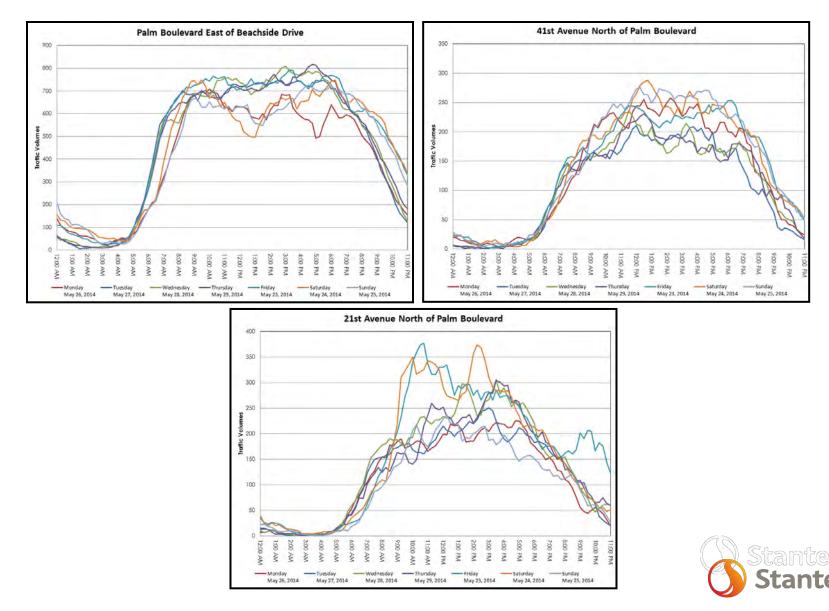
Saturday, May 24, 2014 (Memorial Day Weekend)



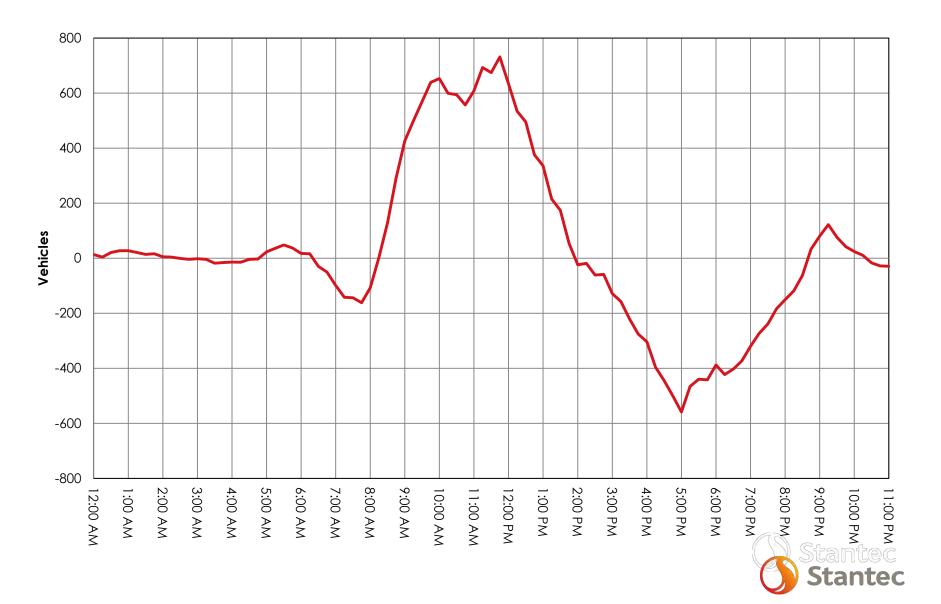
Average Hourly Traffic Summary



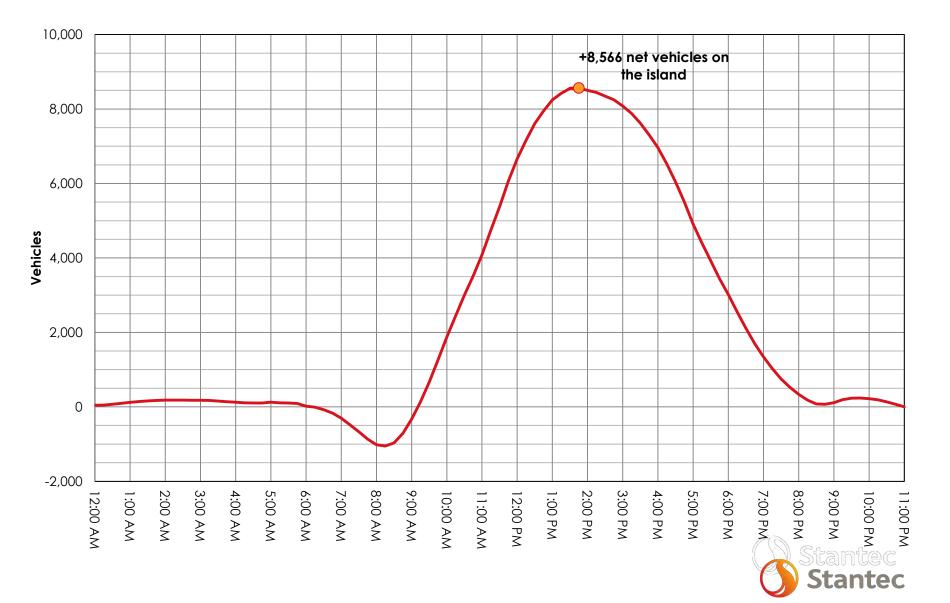
Average Hourly Traffic Summary



Inbound vs. Outbound Traffic Trend – Saturday



Inbound vs. Outbound Cumulative Traffic – Saturday



Parking Data

Summary

- Aerial Photographs
 - 9:00 AM to 6:00 PM
 - Every 30 minutes
- Focused on beach parking



















10:30 AM









11:30 AM



















































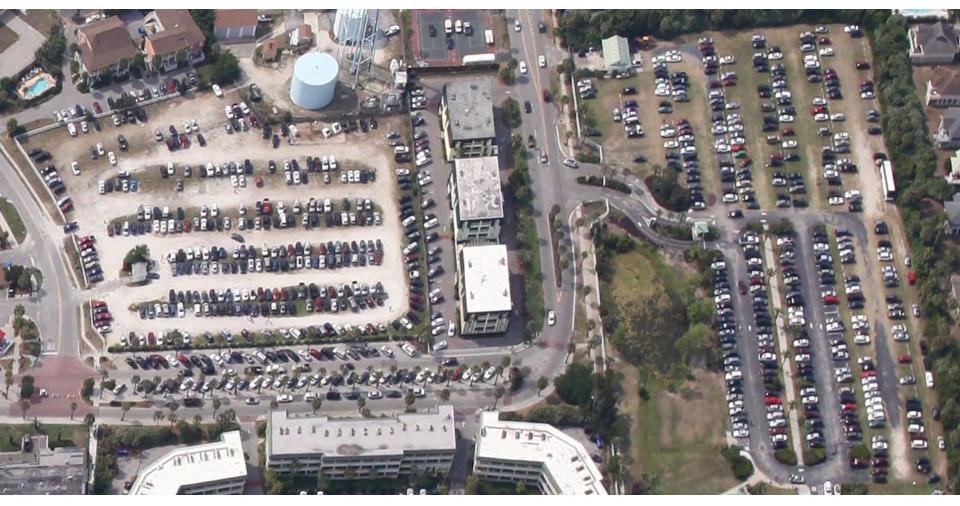
































Parking Data Summary

Summary

- On-street parking accumulation by block
- Lot Parking accumulation: City, County, Private
- Every 30 minutes





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 PREPARED BY:

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 Stantec Consulting Services Inc.

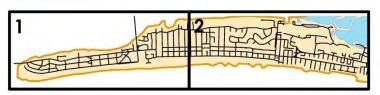
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 4969 Centre Pointe Drive, Suite 200

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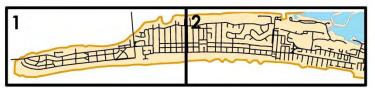
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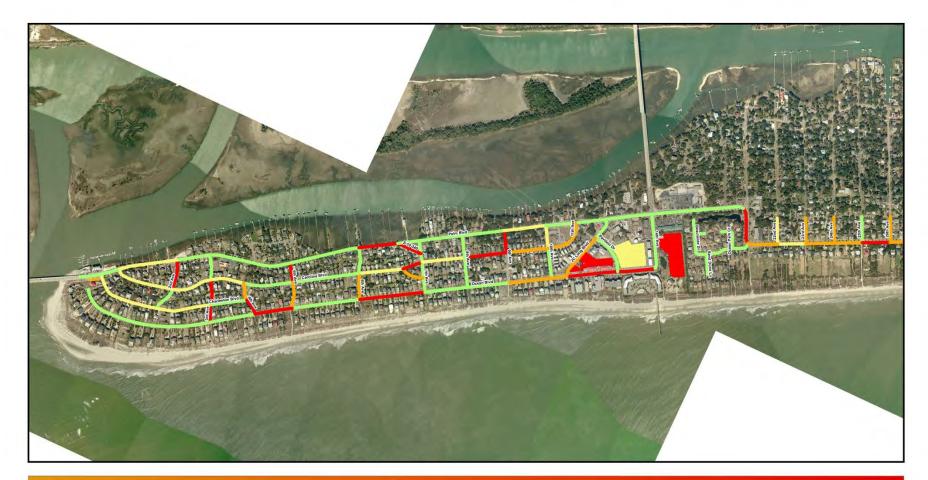
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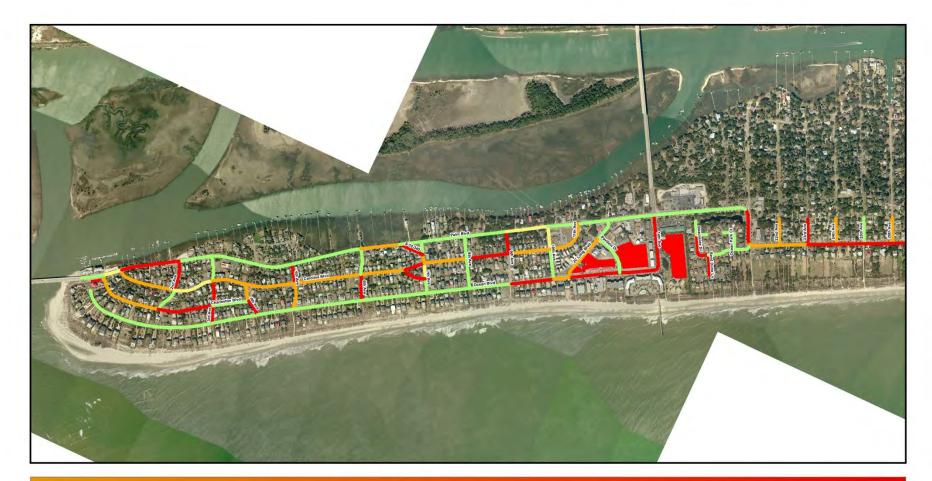
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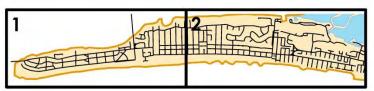
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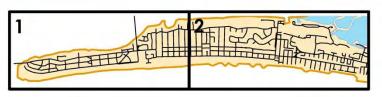
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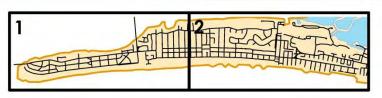
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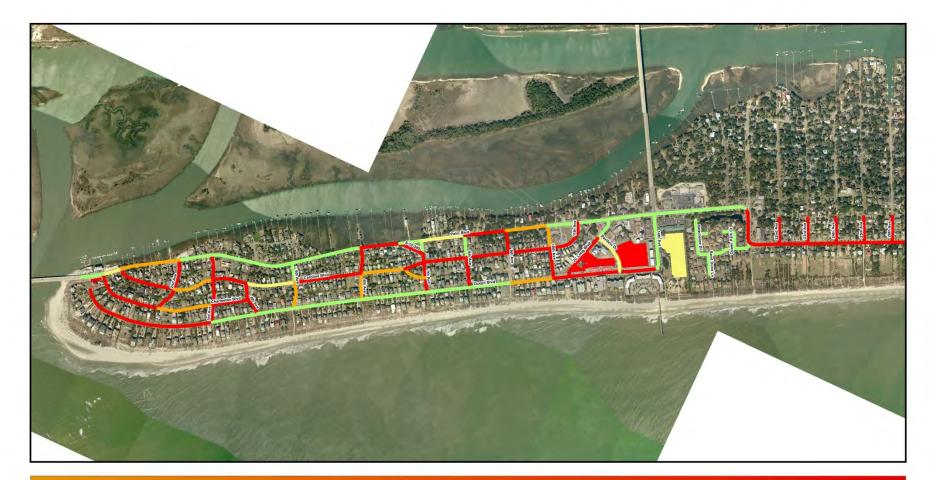
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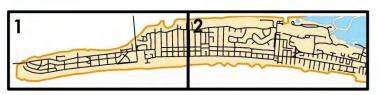
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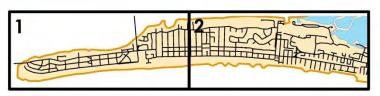
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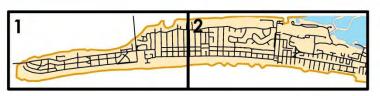
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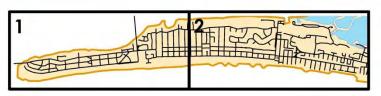
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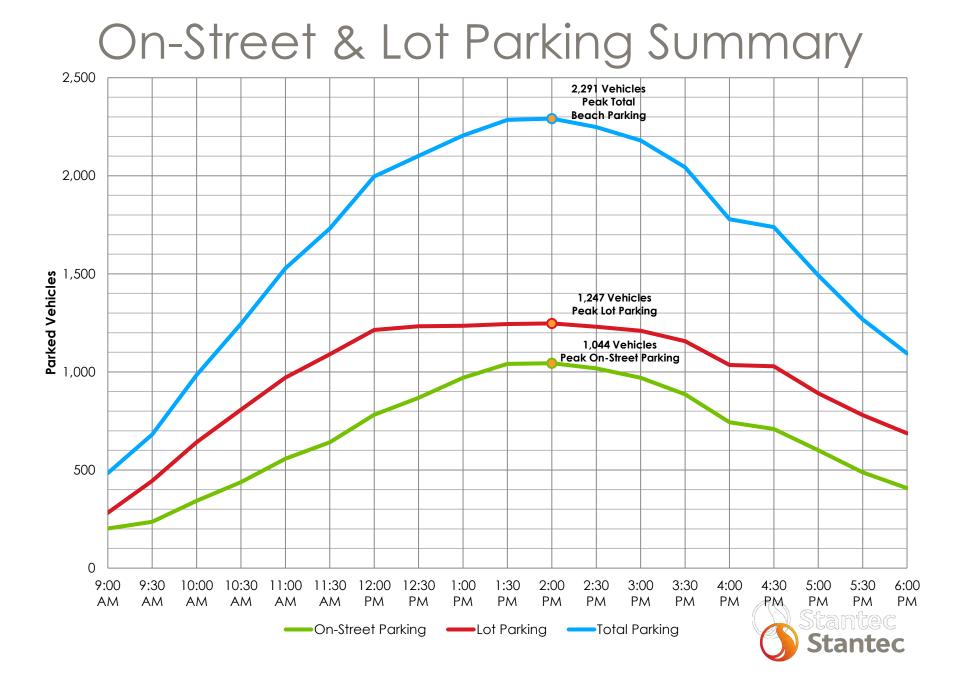
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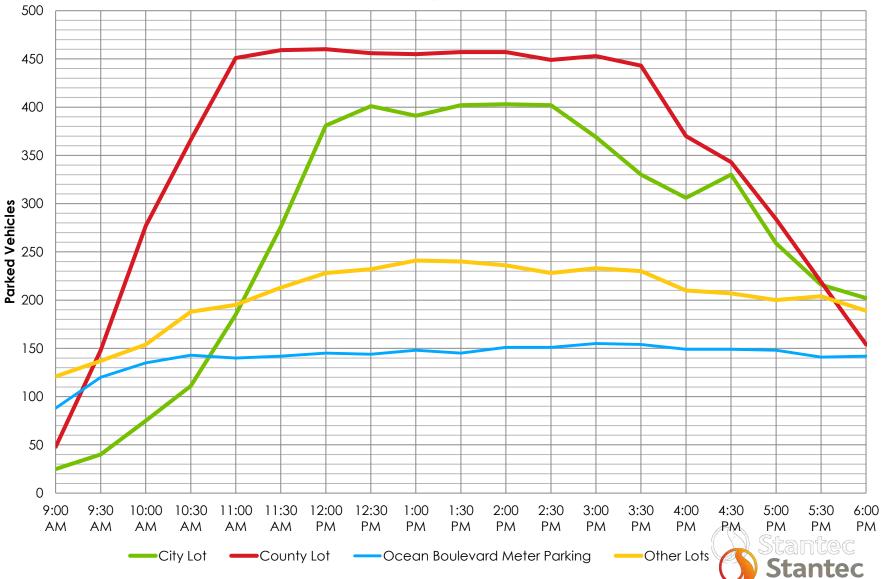








Lot Parking Summary



Marina Parking

Field Observations

- Lots Filled, Vehicles & Trailers
- On-Street Parking along 41st Avenue past Frank Sottile Lane
- On-Street Parking along Waterway Boulevard past Duck Lane









Marina Parking

Summary

| Area | Cars | TRAILERS |
|-------------------------------|------|----------|
| Marina Lots | 218 | 84 |
| Along 41 st Avenue | 28 | 10 |
| Along Waterway Boulevard | 40 | 8 |
| Totals | 286 | 102 |



Traffic/Parking Data Collection & Study

Conclusions

- Congestion for Peak **45** Days of the Year
- Peak 8,566 vehicles arriving onto the island
- 1,247 lot parking
- 1,044 on-street parking

Estimate of Traffic Destinations

- ~25% to/from the beach
- ~25% to/from Wild Dunes
- ~20% to/from Marina & Homes in NE part of island
- ~15% to/from Homes on west part of island
- ~15% to/from Homes on SE part of island



Estimate of Traffic Destinations



5 Managed Parking Program Implementation





Tasks

- Managed Parking Program Implementation
- Conceptual Cost Analysis
 - Cost neutral not an SCDOT requirement
- Public Information Plan

Deliverables

- Parking Permit Implementation Plan
- Conceptual Cost Analysis
- Public Information Plan



Benefits

- Able to Manage (cap) Number of Permits Sold
- Congestion Pricing ability to vary prices

Suggested Parameters

- May 15th through September 15th
- 8:00 AM to 6:00 PM
- Only where parking is not otherwise restricted



Parking Permit Sales

- On-line: Website and "App"
- Public Safety Building during normal business hours

Types of Permits

- Annual
- Weekly
- Daily



License Plate is the parking credential

Enforcement

- License plate camera & recognition software
- Handheld devices
- Ticketing & follow-up



Compliance with Beach Management Plan

- 6 spaces per Public Access Point within 1/8 mile
 - 33 existing Access Points not covered by the County Park = 198 parking spaces required
- 150 spaces per Regional Access Public Park within 1 mile
 - Also Encompasses 23 Public Access Points
- 348 Total Parking Spaces required



Managed Parking Program

Preliminary Expense Calculation

| ΤΑSΚ | RESPONSIBLE | POTENTIAL COST* | | |
|---------------------------------------|--------------------------|---------------------------------------|--|--|
| Public Education/Awareness Campaign | City Staff | \$10,000 | | |
| Software/Website/App/Web Hosting | Contractor | \$30,000 or per transaction charge | | |
| In-person Sales at City Hall | City Staff | \$0? | | |
| New Signing | Contractor | \$20,000 | | |
| Parking Enforcement Staff & Equipment | City Staff or Contractor | \$80,000 | | |
| Parking Adjudication | City Staff or Contractor | \$30,000 or x% per ticket charge | | |
| Preliminary Expense T | \$110,000 to 170,000 | | | |

Stantec Stantec

*Note: Expense are preliminary, subject to change as program is finalized.

Managed Parking Program

Preliminary Revenue Calculation

| CATEGORY | Assumptions | Potential Revenue* | | |
|---------------|---|--------------------|--|--|
| Annual Permit | Average 200 sold per year at \$100/each | \$20,000 | | |
| Weekly Permit | Average 20 sold per week for 18 weeks at \$20/each | \$7,200 | | |
| Daily Permit | Average 200 sold per day for 120 days at \$6/each | \$144,000 | | |
| Parking Fines | 20 per day for 120 days at \$25/each | \$60,000 | | |
| Preliminar | \$231,200 | | | |

*Note: Revenues are preliminary, subject to change as program is finalized.



Managed Parking Program Summary

Conclusions

- Managed Parking Program is Cost Feasible
 - High likelihood to be Cost Positive
- Able to Manage (cap) Number of Permits Sold
- Able to implement Congestion Pricing
- Public Education Process will be important









Next Steps

NEED DIRECTION FOR 2015 BEACH SEASON!

| 2014 | | | 2015 | | | | | | |
|-------------------------|---|--|---------------------|--|---|-----------------------------|---|-------|-------------------|
| August | September | October | November | December | January | February | March | April | May |
| Meet with Vendors | Finalize Managed Parking Program Plan | Release RFP/Bid for Vendor(s) & Equipment | Select Vendor(s) | Vendor Develops Program (website, app, etc.) & Test Functionality | | Open Ticket Sales | Staffing Hires, Purchase New Equipment, & New Signing Installation | | Program Begins |
| | | | | | Initiate Public Education Campaign | Continuing Public Education | | | |



