

Beach Parking and FDEP Cost-Share Eligibility in the Context of 18th St & 19th St
Revised July 15, 2020
Prepared by Steve Swann, PE

The following steps through the process of determining FDEP cost-share eligibility for beach renourishment based on availability of public parking. This analysis is focused solely on 18th St and 19th St beach accesses and does not consider other beach accesses or existing areas of ineligibility between 12th St and 16th St.

This analysis pertains to FDEP cost-share eligibility requirements only and does not address potential limitations in beach parking reduction due to ordinance(s) or comprehensive plan requirements.

- Shoreline lengths eligible for Cost-Share are quantified at the rate of 100 Units/mile or 52.8 ft/Unit
- Car Parking Space = 1 Unit = 52.8 ft/space for eligibility
- Bike Parking Space = ¼ Unit = 13.2 ft/space for eligibility, max of 16 spaces per access or 211.2 ft
- 18th St & 19th St considered Secondary Beach Accesses since there <100 Units at either access
- Maximum shoreline eligibility for secondary beach accesses is limited to 1,320 ft (25 Units) in either direction from each access (50 Units total)
- Width of Access counts towards eligibility – 18th St = 12 ft, 19th St = 40 ft
- Car & Bike Parking Spaces must be located within ¼ mile walking distance of the public beach access to count, not as the crow flies
- Eligible shoreline lengths cannot overlap

The following analysis is based on parking counts contained in the FY18/19 Duval County Shore Protection Project Application and length of shoreline eligibility overlap between 18th St and 19th St provided by FDEP:

- Information included in the FY18/19 Duval County Shore Protection Project Application:
 - 18th St = 12 ft width + 48 car spaces * 52.8 ft/space + 9 bike spaces * 13.2 ft/space = 2,665.2 ft
 - 19th St = 40 ft width + 16 car spaces * 52.8 ft/space + 7 bike spaces * 13.2 ft/space = 977.2 ft
- Length of shoreline between 19th St & 20th St = 913 ft
- Length of shoreline between 18th St & 19th St = 1,020 ft
- Length of shoreline between 18th St & Dewees = 1,578 ft
- 19th St eligibility is applied to the north of the access (see attached Sheet 7 from the 2014 Olsen Engineering Duval beach parking assessment) to the 20th St access
- 18th St eligibility is applied 1,320 ft in the southerly direction with the remainder applied in the northerly direction (see attached Sheets 7 & 8 from the 2014 Olsen Engineering Duval beach parking assessment)
- According to Andrew Briscoe, FDEP, via email (see attached), there is approximately 250 ft of excess eligible shoreline length (overlap) between the 18th St and 19th St. Overlap can be seen on attached Sheet 7
- 250 ft correlates to 4.5 Eligibility Units. Since you must round down and not up, that means without adding bike spaces up to 4 car parking spaces could be removed in aggregate from 18th St and 19th St without impacting cost-share eligibility
- Adding 7 additional bike spaces at 18th and 9 at 19th (recalling that there is a maximum of 16 at each access counted towards eligibility) results in the ability to remove a total of 8 parking spaces between the two accesses without affecting cost-share eligibility.

The following analysis is based on current 2020 parking counts:

- 2020 count by City staff of available parking spaces and bike spaces and corresponding eligibility for cost-share funding:
 - 18th St = 12 ft width + 51 car spaces * 52.8 ft/space + 7 bike spaces * 13.2 ft/space = 2,797.2 ft
 - 19th St = 40 ft width + 13 car spaces * 52.8 ft/space + 14 bike spaces * 13.2 ft/space = 911.2 ft
- All of the 20th St and 19th St eligibility is applied in the northerly direction from both accesses. There is an eligible shoreline length gap of 1.8 ft between 19th St and 20th St (913 ft – 911.2 ft)
- 1,320 ft of eligible shoreline at 18th St is needed in the southerly direction (see note on Waters Park below)
- 12 ft of eligible shoreline length at 18th St is applied to the width of the access
- 1,020 ft of eligible shoreline length is needed between 18th St and 19th St (distance between the two accesses at the ROW line)
- Total eligible shoreline needed at the 18th St access is 1,320 ft + 12 ft + 1,020 ft = 2,352 ft
- 2,352 ft equates to 44.7 Units (2,352 / 52.6)
- There are currently 51 car parking spaces at 18th St (51 Units)
- The addition of 9 bike spaces to the existing 7 at 18th St provides a total of 4 additional Units (13.2 ft* 16 bike spaces / 52.8 ft/Unit)
- The addition of 2 bike spaces to the existing 14 at 19th St provides an additional 0.5 Units (13.2 ft * 2 bike spaces / 52.9 ft/Unit). 1 bike space is needed to close the gap in eligible shoreline length between 19th St and 20th St, leaving 1 bike space or 0.25 Units that can be applied to 18th St
- Total car spaces required for full-cost share eligibility at 18th St with the addition of new bike spaces is 40.45 (44.7 Units – 4.25 Units). Since you must round up and not down the result is the minimum number of car parking spaces at 18th St for full cost-share eligibility is 41

Summary

- Utilizing FDEP provided overlap in eligibility and the 2014 parking count for cars and bikes, a total of 8 car parking spaces could be eliminated from 18th St without jeopardizing cost-share eligibility with additional bike racks added
- Utilizing 2020 parking counts for cars and bikes a total of 10 car parking spaces could be eliminated from 18th St without jeopardizing cost-share eligibility if additional bike racks are added
- Note that there are gaps in eligibility between 12th St and 16th St. Recently created parking at Waters Park needs to be applied to this area to maximize cost-share eligibility and close these gaps
- The 2014 beach parking analysis should be updated to reflect current conditions and assure that all gaps in cost-share eligibility within the City limits can be eliminated.
- This analysis should be reviewed by Olsen & Associates to verify accuracy prior to any actions being taken

From: Briscoe, Andrew [mailto:Andrew.Briscoe@dep.state.fl.us]
Sent: Monday, June 15, 2020 5:58 PM
To: Swann, Steve
Subject: RE: FW: Atlantic Beach Public Beach Parking

Steve,

I've communicated with Kevin Bodge from Olsen Associates and he provided the updated parking maps for the Duval County Shore Protection Project that show the required parking spaces/eligibility units within the 19th Street and 18th Street area in Atlantic Beach. We're still working a bit to determine what options may be available and to get a definitive number on the amount of public access required at the 18th Street and 19th Street accesses within Atlantic Beach, but preliminarily it definitely looks like there's potential to remove a few eligibility units at 18th Street if needed.

The proposed project that received funding under DEP Agreement 19DU1 showed 17.75 parking spaces/eligibility units at 19th Street and 50.25 parking spaces/eligibility units at 18th Street. The eligibility on these applications is sometimes subject to revisions or verifications, which as you can see is sometimes difficult to nail down exact numbers with an application up to a year before funding is made available. The eligibility of these two public access points creates a small overlap of approximately 250 feet. This means that just over 4.5 units of eligibility could potentially be removed from either 18th or 19th Street without having any impact on the eligibility of the project. Obviously, removing 4.5 parking spaces would be impossible, so removing 5+ parking spaces would require mitigation in the form of adding bike racks within the access area.

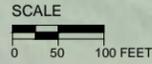
Unfortunately, I cannot say definitively what the City of Atlantic Beach *must* or *should* do in determining what space(s) are able to be removed from an area, if any. I highly recommend working with the project's local sponsor the City of Jacksonville, Kevin Bodge from Olsen Associates, and any local residents/local organizations concerned about the public to come up with a solution that is agreeable with all parties. What I can say for sure is that the previous eligibility listed in the 15DU1 Agreement was outdated and incorrect, and that there absolutely must be some public access at both 18th Street and 19th Street to maintain the current state cost-share percentages on the Duval County Shore Protection Project. Currently it appears that approximately 4.5 eligibility units could be removed at 18th Street without impacting the project eligibility and state cost-share, but that any final decisions are up to the project's local sponsor and the City of Atlantic Beach. This would still require that 45.75 eligibility units remain at 18th Street, at a minimum.

I do sincerely apologize for the misinformation regarding the necessary eligibility on the Duval County Shore Protection Project. The eligibility calculated for the 15DU1 Agreement was absolutely incorrect, and the Department not correcting it in the past has made this situation more complicated.

I will keep you updated as more things are determined on our end, and of course, if you have any further questions or need any clarification on anything, please do not hesitate to reach out.

Have a great evening!
Andrew

MATCH LINE



MATCH LINE

NOTES:
 PHOTO DATE:
 USGS DECEMBER 2012

LEGEND:



R038 =FDEP MONUMENT



=PUBLIC RESTROOM FACILITIES



=PUBLIC PARKING SPACES
 TOTAL SPACES(NUMBER OF WHICH ARE HANDICAP)
 17(1h) = 17 TOTAL SPACES, 1 IS HANDICAP



=PUBLIC BICYCLE SPACES



=DIRECTION TO WHICH SPACE IS ALLOCATED



=TOTAL PARKING SPACES AT PUBLIC ACCESS



=PUBLIC BEACH ACCESS

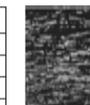


=ELIGIBLE FOR STATE COST-SHARE*



=INELIGIBLE FOR STATE COST-SHARE*
 *PER 62B-36.007 FAC

REVISIONS				
LTR	DESCRIPTION	BY	DATE	APPRVD

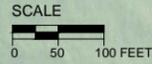


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 COA No. 3491

DUVAL COUNTY SHORE PROTECTION PROGRAM	
ATLANTIC BEACH A2	
DRAWN BY: EB	DATE: 06/10/14
CHECKED BY: KB	DATE: 06/10/14
REVISED BY:	DATE:

SHEET
7
 OF 18

MATCH LINE



MATCH LINE

NOTES:
PHOTO DATE:
USGS DECEMBER 2012

LEGEND:

- R038 = FDEP MONUMENT
- = PUBLIC RESTROOM FACILITIES
- 17(1h) = PUBLIC PARKING SPACES
TOTAL SPACES (NUMBER OF WHICH ARE HANDICAP)
17(1h) = 17 TOTAL SPACES, 1 IS HANDICAP
- 5 bikes = PUBLIC BICYCLE SPACES
- = DIRECTION TO WHICH SPACE IS ALLOCATED
- 7 = TOTAL PARKING SPACES AT PUBLIC ACCESS
- = PUBLIC BEACH ACCESS
- = ELIGIBLE FOR STATE COST-SHARE*
- = INELIGIBLE FOR STATE COST-SHARE*
*PER 62B-36.007 FAC

REVISIONS				
LTR	DESCRIPTION	BY	DATE	APPRVD



DUVAL COUNTY
SHORE PROTECTION PROGRAM
ATLANTIC BEACH A3

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SHEET
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OF 18