Perdido Key Beach Mouse Habitat Assessment

State Road 292 Perdido Key Drive Shared-use Path from Alabama State Line to West State Park Boundary

FPID: 438908-2

Escambia County, Florida

Prepared by:

HDR Engineering, Inc.

Prepared for:
Florida Department of Transportation
District 3

Habitat Assessment Summary

FDOT proposes the construction of a 1.964 mile eight-foot-wide shared-use path along the north side of SR 292 Perdido Key Dr. from the Alabama State Line to W State Park Entrance (see **Figure 1. Project Vicinity Map**). The project will have direct impacts to designated critical habitat for the federally-endangered Perdido Key Beach Mouse (*Peromyscus polionotus trissyllepsis*). Detailed project impact and enhancement/restoration maps are provided in **Appendix A**. The project will impact 0.7482 acres of critical habitat. The project will include enhancement/restoration of all critical habitat in the right-of-way that the path goes through. The total enhancement/restoration area is 1.8766 acres

Through coordination with Escambia County and U.S. Fish and Wildlife Service the FDOT developed a habitat assessment methodology to analyze impacts to critical habitat. The procedure also analyzes the potential benefits of restoration/enhancement of critical habitat. There are 32 critical habitat areas that will be crossed by the path. The 32 sites are separated by items such as driveways or other elements of non-critical habitat. All 32 sites were given an existing habitat assessment score. The sites were then scored as either having an impact or enhancement/restoration to occur. The enhancement/restoration is to occur via beach raking to provide appropriate substrate and planting of native beach plants. All scoring sheets are provided below.

The habitat assessment scoring resulted in a Functional Loss of 0.4864 from the impacts to the 0.7482 acres. The Functional Gain is 0.4389 based on the enhancement/restoration of the 1.8766 acres of critical habitat area within the right-of-way along the path. This leaves an additional Functional Loss of 0.0475 to be offset.

To offset the additional area FDOT proposes to complete enhancement/restoration of 0.1488 acres of right-of-way designated as critical habitat on the south side of SR 292 located directly north of a beach front parcel owned by Escambia County designated as Mitigation Only Site, maps are provided in **Appendix B**. With the enhancement/restoration of the Mitigation Only Site the project will have a total functional gain of 0.0120.

Figure 1. Project Vicinity Map

Critical Habitat Site 1

Perdido Key Beach Mouse Habitat Assessment

Site/Project Name: SR 292 Multi-use Path FPID: 438908-2	**Application Number:**	**Assessment Area Name/Number:** Site 1
Impact or Mitigation: Impacts = 0.0054 Acres	**Assessment conducted by:** Josey Walker, HDR	**Assessment date:** October 30, 2018

	Optimal (10)	Moderate (7)	Minimal (4)	Insufficient (0)	Existing	Impact/Mitigation
Location and landscape support:	Unobstructed primary, secondary, or shrub dunes with high maximum elevations that provide food resources, protection, and burrow sites.	Primary, secondary, or shrub dunes within close proximity to roads, buildings, or parking areas interrupting continuity on one side of the assessed site.	Primary, secondary, or shrub dunes within close proximity and level to roads, buildings, or parking areas interrupt continuity on both sides of the assessed site.	Uninhabitable level ground within close proximity and level to roads, buildings, or parking areas interrupt continuity on either side of the assessed site.	4	0
Substrate:	Greater than 70% of substrate consisting of natural sand/soils.	30-70% of substrate consisting of natural sand/soils.	<30 % of substrate consisting of natural sands/soils. Site primarily uninhabitable due to compact soils or heavy debris.	Site consists of an impervious surface such as a driveway or sidewalk or area completely sodded.	4	0
Vegetation	Sparse vegetation cover consisting of primarily sea oats (*Panicum repens*), beach grass (*Panicum amarumus*) and other native dune plant species.	Mix of native and introduced vegetation.	Primarily non-native plant species or lacking vegetation.	Lack of vegetation to provide resources and protection for colonization.	4	0

Impact	
Functional Loss = sum of above scores/30	**0.4000**
Functional Loss x acres of impact	**0.0022**

Mitigation	
Functional Gain = sum of mitigation - existing scores/30	
Functional Gain x acres of mitigation	

Perdido Key Beach Mouse Habitat Assessment

Site/Project Name: SR 292 Multi-use Path FPID: 438908-2	**Application Number:**	**Assessment Area Name/Number:** Site 1
Impact or Mitigation: Mitigation = 0.0049 Acres	**Assessment conducted by:** Josey Walker, HDR	**Assessment date:** October 30, 2018

	Optimal (10)	Moderate (7)	Minimal (4)	Insufficient (0)	Existing	Impact/Mitigation
Location and landscape support:	Unobstructed primary, secondary, or shrub dunes with high maximum elevations that provide food resources, protection, and burrow sites.	Primary, secondary, or shrub dunes within close proximity to roads, buildings, or parking areas interrupting continuity on one side of the assessed site.	Primary, secondary, or shrub dunes within close proximity and level to roads, buildings, or parking areas interrupt continuity on both sides of the assessed site.	Uninhabitable level ground within close proximity and level to roads, buildings, or parking areas interrupt continuity on either side of the assessed site.	4	4
Substrate:	Greater than 70% of substrate consisting of natural sand/soils.	30-70% of substrate consisting of natural sand/soils.	<30 % of substrate consisting of natural sands/soils. Site primarily uninhabitable due to compact soils or heavy debris.	Site consists of an impervious surface such as a driveway or sidewalk or area completely sodded.	4	10
Vegetation:	Sparse vegetation cover consisting of primarily sea oats (*Panicum repens*), beach grass (*Panicum amarumus*) and other native dune plant species.	Mix of native and introduced vegetation.	Primarily non-native plant species or lacking vegetation.	Lack of vegetation to provide resources and protection for colonization.	4	10

Impact	
Functional Loss = sum of above scores/30	
Functional Loss x acres of impact	

Mitigation	
Functional Gain = sum of mitigation - existing scores/30	**0.4000**
Functional Gain x acres of mitigation	**0.0020**

Critical Habitat Site 2

Perdido Key Beach Mouse Habitat Assessment

Site/Project Name: SR 292 Multi-use Path FPID: 438908-2	**Application Number:**	**Assessment Area Name/Number:** Site 2
Impact or Mitigation: Impacts = 0.0008 Acres	**Assessment conducted by:** Josey Walker, HDR	**Assessment date:** October 30, 2018

	Optimal (10)	Moderate (7)	Minimal (4)	Insufficient (0)	Existing	Impact/Mitigation
Location and landscape support:	Unobstructed primary, secondary, or shrub dunes with high maximum elevations that provide food resources, protection, and burrow sites.	Primary, secondary, or shrub dunes within close proximity to roads, buildings, or parking areas interrupting continuity on one side of the assessed site.	Primary, secondary, or shrub dunes within close proximity and level to roads, buildings, or parking areas interrupt continuity on both sides of the assessed site.	Uninhabitable level ground within close proximity and level to roads, buildings, or parking areas interrupt continuity on either side of the assessed site.	4	0
Substrate:	Greater than 70% of substrate consisting of natural sand/soils.	30-70% of substrate consisting of natural sand/soils.	<30 % of substrate consisting of natural sands/soils. Site primarily uninhabitable due to compact soils or heavy debris.	Site consists of an impervious surface such as a driveway or sidewalk or area completely sodded.	4	0
Vegetation:	Sparse vegetation cover consisting of primarily sea oats (*Panicum repens*), beach grass (*Panicum amarumus*) and other native dune plant species.	Mix of native and introduced vegetation.	Primarily non-native plant species or lacking vegetation.	Lack of vegetation to provide resources and protection for colonization.	4	0

Impact	
Functional Loss = sum of above scores/30	**0.4000**
Functional Loss x acres of impact	**0.0003**

Mitigation	
Functional Gain = sum of mitigation - existing scores/30	
Functional Gain x acres of mitigation	

Perdido Key Beach Mouse Habitat Assessment

Site/Project Name: SR 292 Multi-use Path FPID: 438908-2	**Application Number:**	**Assessment Area Name/Number:** Site 2
Impact or Mitigation: Mitigation = 0.0031 Acres	**Assessment conducted by:** Josey Walker, HDR	**Assessment date:** October 30, 2018

	Optimal (10)	Moderate (7)	Minimal (4)	Insufficient (0)	Existing	Impact/Mitigation
Location and landscape support:	Unobstructed primary, secondary, or shrub dunes with high maximum elevations that provide food resources, protection, and burrow sites.	Primary, secondary, or shrub dunes within close proximity to roads, buildings, or parking areas interrupting continuity on one side of the assessed site.	Primary, secondary, or shrub dunes within close proximity and level to roads, buildings, or parking areas interrupt continuity on both sides of the assessed site.	Uninhabitable level ground within close proximity and level to roads, buildings, or parking areas interrupt continuity on either side of the assessed site.	4	4
Substrate:	Greater than 70% of substrate consisting of natural sand/soils.	30-70% of substrate consisting of natural sand/soils.	<30 % of substrate consisting of natural sands/soils. Site primarily uninhabitable due to compact soils or heavy debris.	Site consists of an impervious surface such as a driveway or sidewalk or area completely sodded.	4	10
Vegetation:	Sparse vegetation cover consisting of primarily sea oats (*Panicum repens*), beach grass (*Panicum amarumus*) and other native dune plant species.	Mix of native and introduced vegetation.	Primarily non-native plant species or lacking vegetation.	Lack of vegetation to provide resources and protection for colonization.	4	10

Impact	
Functional Loss = sum of above scores/30	
Functional Loss x acres of impact	

Mitigation	
Functional Gain = sum of mitigation - existing scores/30	**0.4000**
Functional Gain x acres of mitigation	**0.0012**

Critical Habitat Site 3

Perdido Key Beach Mouse Habitat Assessment

Site/Project Name: SR 292 Multi-use Path FPID: 438908-2	**Application Number:**	**Assessment Area Name/Number:** Site 3
Impact or Mitigation: Impacts = 0.0061 Acres	**Assessment conducted by:** Josey Walker, HDR	**Assessment date:** October 30, 2018

	Optimal (10)	Moderate (7)	Minimal (4)	Insufficient (0)	Existing	Impact/Mitigation
Location and landscape support:	Unobstructed primary, secondary, or shrub dunes with high maximum elevations that provide food resources, protection, and burrow sites.	Primary, secondary, or shrub dunes within close proximity to roads, buildings, or parking areas interrupting continuity on one side of the assessed site.	Primary, secondary, or shrub dunes within close proximity and level to roads, buildings, or parking areas interrupt continuity on both sides of the assessed site.	Uninhabitable level ground within close proximity and level to roads, buildings, or parking areas interrupt continuity on either side of the assessed site.	4	0
Substrate:	Greater than 70% of substrate consisting of natural sand/soils.	30-70% of substrate consisting of natural sand/soils.	<30 % of substrate consisting of natural sands/soils. Site primarily uninhabitable due to compact soils or heavy debris.	Site consists of an impervious surface such as a driveway or sidewalk or area completely sodded.	4	0
Vegetation:	Sparse vegetation cover consisting of primarily sea oats (*Panicum repens*), beach grass (*Panicum amarumus*) and other native dune plant species.	Mix of native and introduced vegetation.	Primarily non-native plant species or lacking vegetation.	Lack of vegetation to provide resources and protection for colonization.	4	0

Impact	
Functional Loss = sum of above scores/30	**0.4000**
Functional Loss x acres of impact	**0.0024**

Mitigation	
Functional Gain = sum of mitigation - existing scores/30	
Functional Gain x acres of mitigation	

Perdido Key Beach Mouse Habitat Assessment

Site/Project Name: SR 292 Multi-use Path FPID: 438908-2	**Application Number:**	**Assessment Area Name/Number:** Site 3
Impact or Mitigation: Mitigation = 0.0026 Acres	**Assessment conducted by:** Josey Walker, HDR	**Assessment date:** October 30, 2018

	Optimal (10)	Moderate (7)	Minimal (4)	Insufficient (0)	Existing	Impact/Mitigation
Location and landscape support:	Unobstructed primary, secondary, or shrub dunes with high maximum elevations that provide food resources, protection, and burrow sites.	Primary, secondary, or shrub dunes within close proximity to roads, buildings, or parking areas interrupting continuity on one side of the assessed site.	Primary, secondary, or shrub dunes within close proximity and level to roads, buildings, or parking areas interrupt continuity on both sides of the assessed site.	Uninhabitable level ground within close proximity and level to roads, buildings, or parking areas interrupt continuity on either side of the assessed site.	4	4
Substrate:	Greater than 70% of substrate consisting of natural sand/soils.	30-70% of substrate consisting of natural sand/soils.	<30 % of substrate consisting of natural sands/soils. Site primarily uninhabitable due to compact soils or heavy debris.	Site consists of an impervious surface such as a driveway or sidewalk or area completely sodded.	4	10
Vegetation:	Sparse vegetation cover consisting of primarily sea oats (*Panicum repens*), beach grass (*Panicum amarumus*) and other native dune plant species.	Mix of native and introduced vegetation.	Primarily non-native plant species or lacking vegetation.	Lack of vegetation to provide resources and protection for colonization.	4	10

Impact	
Functional Loss = sum of above scores/30	
Functional Loss x acres of impact	

Mitigation	
Functional Gain = sum of mitigation - existing scores/30	**0.4000**
Functional Gain x acres of mitigation	**0.0010**

Critical Habitat Site 4

Perdido Key Beach Mouse Habitat Assessment

Site/Project Name: SR 292 Multi-use Path FPID: 438908-2	**Application Number:**	**Assessment Area Name/Number:** Site 4
Impact or Mitigation: Impacts = 0.0077 Acres	**Assessment conducted by:** Josey Walker, HDR	**Assessment date:** October 30, 2018

	Optimal (10)	Moderate (7)	Minimal (4)	Insufficient (0)	Existing	Impact/Mitigation
Location and landscape support:	Unobstructed primary, secondary, or shrub dunes with high maximum elevations that provide food resources, protection, and burrow sites.	Primary, secondary, or shrub dunes within close proximity to roads, buildings, or parking areas interrupting continuity on one side of the assessed site.	Primary, secondary, or shrub dunes within close proximity and level to roads, buildings, or parking areas interrupt continuity on both sides of the assessed site.	Uninhabitable level ground within close proximity and level to roads, buildings, or parking areas interrupt continuity on either side of the assessed site.	4	0
Substrate:	Greater than 70% of substrate consisting of natural sand/soils.	30-70% of substrate consisting of natural sand/soils.	<30 % of substrate consisting of natural sands/soils. Site primarily uninhabitable due to compact soils or heavy debris.	Site consists of an impervious surface such as a driveway or sidewalk or area completely sodded.	4	0
Vegetation:	Sparse vegetation cover consisting of primarily sea oats (*Panicum repens*), beach grass (*Panicum amarumus*) and other native dune plant species.	Mix of native and introduced vegetation.	Primarily non-native plant species or lacking vegetation.	Lack of vegetation to provide resources and protection for colonization.	4	0

Impact	
Functional Loss = sum of above scores/30	**0.4000**
Functional Loss x acres of impact	**0.0031**

Mitigation	
Functional Gain = sum of mitigation - existing scores/30	
Functional Gain x acres of mitigation	

Perdido Key Beach Mouse Habitat Assessment

Site/Project Name: SR 292 Multi-use Path FPID: 438908-2	**Application Number:**	**Assessment Area Name/Number:** Site 4
Impact or Mitigation: Mitigation = 0.0117 Acres	**Assessment conducted by:** Josey Walker, HDR	**Assessment date:** October 30, 2018

	Optimal (10)	Moderate (7)	Minimal (4)	Insufficient (0)	Existing	Impact/Mitigation
Location and landscape support:	Unobstructed primary, secondary, or shrub dunes with high maximum elevations that provide food resources, protection, and burrow sites.	Primary, secondary, or shrub dunes within close proximity to roads, buildings, or parking areas interrupting continuity on one side of the assessed site.	Primary, secondary, or shrub dunes within close proximity and level to roads, buildings, or parking areas interrupt continuity on both sides of the assessed site.	Uninhabitable level ground within close proximity and level to roads, buildings, or parking areas interrupt continuity on either side of the assessed site.	4	4
Substrate:	Greater than 70% of substrate consisting of natural sand/soils.	30-70% of substrate consisting of natural sand/soils.	<30 % of substrate consisting of natural sands/soils. Site primarily uninhabitable due to compact soils or heavy debris.	Site consists of an impervious surface such as a driveway or sidewalk or area completely sodded.	4	10
Vegetation:	Sparse vegetation cover consisting of primarily sea oats (*Panicum repens*), beach grass (*Panicum amarumus*) and other native dune plant species.	Mix of native and introduced vegetation.	Primarily non-native plant species or lacking vegetation.	Lack of vegetation to provide resources and protection for colonization.	4	10

Impact	
Functional Loss = sum of above scores/30	
Functional Loss x acres of impact	

Mitigation	
Functional Gain = sum of mitigation - existing scores/30	**0.4000**
Functional Gain x acres of mitigation	**0.0047**

Critical Habitat Site 5

Perdido Key Beach Mouse Habitat Assessment

Site/Project Name: SR 292 Multi-use Path FPID: 438908-2	**Application Number:**	**Assessment Area Name/Number:** Site 5
Impact or Mitigation: Impacts = 0.0095 Acres	**Assessment conducted by:** Josey Walker, HDR	**Assessment date:** October 30, 2018

	Optimal (10)	Moderate (7)	Minimal (4)	Insufficient (0)	Existing	Impact/Mitigation
Location and landscape support:	Unobstructed primary, secondary, or shrub dunes with high maximum elevations that provide food resources, protection, and burrow sites.	Primary, secondary, or shrub dunes within close proximity to roads, buildings, or parking areas interrupting continuity on one side of the assessed site.	Primary, secondary, or shrub dunes within close proximity and level to roads, buildings, or parking areas interrupt continuity on both sides of the assessed site.	Uninhabitable level ground within close proximity and level to roads, buildings, or parking areas interrupt continuity on either side of the assessed site.	4	0
Substrate:	Greater than 70% of substrate consisting of natural sand/soils.	30-70% of substrate consisting of natural sand/soils.	<30 % of substrate consisting of natural sands/soils. Site primarily uninhabitable due to compact soils or heavy debris.	Site consists of an impervious surface such as a driveway or sidewalk or area completely sodded.	7	0
Vegetation:	Sparse vegetation cover consisting of primarily sea oats (*Panicum repens*), beach grass (*Panicum amarumus*) and other native dune plant species.	Mix of native and introduced vegetation.	Primarily non-native plant species or lacking vegetation.	Lack of vegetation to provide resources and protection for colonization.	7	0

Impact	
Functional Loss = sum of above scores/30	**0.6000**
Functional Loss x acres of impact	**0.0057**

Mitigation	
Functional Gain = sum of mitigation - existing scores/30	
Functional Gain x acres of mitigation	

Perdido Key Beach Mouse Habitat Assessment

Site/Project Name: SR 292 Multi-use Path FPID: 438908-2	**Application Number:**	**Assessment Area Name/Number:** Site 5
Impact or Mitigation: Mitigation = 0.0184 Acres	**Assessment conducted by:** Josey Walker, HDR	**Assessment date:** October 30, 2018

	Optimal (10)	Moderate (7)	Minimal (4)	Insufficient (0)	Existing	Impact/Mitigation
Location and landscape support:	Unobstructed primary, secondary, or shrub dunes with high maximum elevations that provide food resources, protection, and burrow sites.	Primary, secondary, or shrub dunes within close proximity to roads, buildings, or parking areas interrupting continuity on one side of the assessed site.	Primary, secondary, or shrub dunes within close proximity and level to roads, buildings, or parking areas interrupt continuity on both sides of the assessed site.	Uninhabitable level ground within close proximity and level to roads, buildings, or parking areas interrupt continuity on either side of the assessed site.	4	4
Substrate:	Greater than 70% of substrate consisting of natural sand/soils.	30-70% of substrate consisting of natural sand/soils.	<30 % of substrate consisting of natural sands/soils. Site primarily uninhabitable due to compact soils or heavy debris.	Site consists of an impervious surface such as a driveway or sidewalk or area completely sodded.	7	10
Vegetation:	Sparse vegetation cover consisting of primarily sea oats (*Panicum repens*), beach grass (*Panicum amarumus*) and other native dune plant species.	Mix of native and introduced vegetation.	Primarily non-native plant species or lacking vegetation.	Lack of vegetation to provide resources and protection for colonization.	7	10

Impact	
Functional Loss = sum of above scores/30	
Functional Loss x acres of impact	

Mitigation	
Functional Gain = sum of mitigation - existing scores/30	**0.2000**
Functional Gain x acres of mitigation	**0.0037**

Critical Habitat Site 6

Perdido Key Beach Mouse Habitat Assessment

Site/Project Name: SR 292 Multi-use Path FPID: 438908-2	**Application Number:**	**Assessment Area Name/Number:** Site 6
Impact or Mitigation: Impacts = 0.0014 Acres	**Assessment conducted by:** Josey Walker, HDR	**Assessment date:** October 30, 2018

	Optimal (10)	Moderate (7)	Minimal (4)	Insufficient (0)	Existing	Impact/Mitigation
Location and landscape support:	Unobstructed primary, secondary, or shrub dunes with high maximum elevations that provide food resources, protection, and burrow sites.	Primary, secondary, or shrub dunes within close proximity to roads, buildings, or parking areas interrupting continuity on one side of the assessed site.	Primary, secondary, or shrub dunes within close proximity and level to roads, buildings, or parking areas interrupt continuity on both sides of the assessed site.	Uninhabitable level ground within close proximity and level to roads, buildings, or parking areas interrupt continuity on either side of the assessed site.	4	0
Substrate:	Greater than 70% of substrate consisting of natural sand/soils.	30-70% of substrate consisting of natural sand/soils.	<30 % of substrate consisting of natural sands/soils. Site primarily uninhabitable due to compact soils or heavy debris.	Site consists of an impervious surface such as a driveway or sidewalk or area completely sodded.	4	0
Vegetation:	Sparse vegetation cover consisting of primarily sea oats (*Panicum repens*), beach grass (*Panicum amarumus*) and other native dune plant species.	Mix of native and introduced vegetation.	Primarily non-native plant species or lacking vegetation.	Lack of vegetation to provide resources and protection for colonization.	4	0

Impact	
Functional Loss = sum of above scores/30	**0.4000**
Functional Loss x acres of impact	**0.0006**

Mitigation	
Functional Gain = sum of mitigation - existing scores/30	
Functional Gain x acres of mitigation	

Perdido Key Beach Mouse Habitat Assessment

Site/Project Name: SR 292 Multi-use Path FPID: 438908-2	**Application Number:**	**Assessment Area Name/Number:** Site 6
Impact or Mitigation: Mitigation = 0.0048 Acres	**Assessment conducted by:** Josey Walker, HDR	**Assessment date:** October 30, 2018

	Optimal (10)	Moderate (7)	Minimal (4)	Insufficient (0)	Existing	Impact/Mitigation
Location and landscape support:	Unobstructed primary, secondary, or shrub dunes with high maximum elevations that provide food resources, protection, and burrow sites.	Primary, secondary, or shrub dunes within close proximity to roads, buildings, or parking areas interrupting continuity on one side of the assessed site.	Primary, secondary, or shrub dunes within close proximity and level to roads, buildings, or parking areas interrupt continuity on both sides of the assessed site.	Uninhabitable level ground within close proximity and level to roads, buildings, or parking areas interrupt continuity on either side of the assessed site.	4	4
Substrate:	Greater than 70% of substrate consisting of natural sand/soils.	30-70% of substrate consisting of natural sand/soils.	<30 % of substrate consisting of natural sands/soils. Site primarily uninhabitable due to compact soils or heavy debris.	Site consists of an impervious surface such as a driveway or sidewalk or area completely sodded.	4	10
Vegetation:	Sparse vegetation cover consisting of primarily sea oats (*Panicum repens*), beach grass (*Panicum amarumus*) and other native dune plant species.	Mix of native and introduced vegetation.	Primarily non-native plant species or lacking vegetation.	Lack of vegetation to provide resources and protection for colonization.	4	10

Impact	
Functional Loss = sum of above scores/30	
Functional Loss x acres of impact	

Mitigation	
Functional Gain = sum of mitigation - existing scores/30	**0.4000**
Functional Gain x acres of mitigation	**0.0019**

Critical Habitat Site 7

Perdido Key Beach Mouse Habitat Assessment

Site/Project Name: SR 292 Multi-use Path FPID: 438908-2	**Application Number:**	**Assessment Area Name/Number:** Site 7
Impact or Mitigation: Impacts = 0.0500 Acres	**Assessment conducted by:** Josey Walker, HDR	**Assessment date:** October 30, 2018

	Optimal (10)	Moderate (7)	Minimal (4)	Insufficient (0)	Existing	Impact/Mitigation
Location and landscape support:	Unobstructed primary, secondary, or shrub dunes with high maximum elevations that provide food resources, protection, and burrow sites.	Primary, secondary, or shrub dunes within close proximity to roads, buildings, or parking areas interrupting continuity on one side of the assessed site.	Primary, secondary, or shrub dunes within close proximity and level to roads, buildings, or parking areas interrupt continuity on both sides of the assessed site.	Uninhabitable level ground within close proximity and level to roads, buildings, or parking areas interrupt continuity on either side of the assessed site.	7	0
Substrate:	Greater than 70% of substrate consisting of natural sand/soils.	30-70% of substrate consisting of natural sand/soils.	<30 % of substrate consisting of natural sands/soils. Site primarily uninhabitable due to compact soils or heavy debris.	Site consists of an impervious surface such as a driveway or sidewalk or area completely sodded.	7	0
Vegetation:	Sparse vegetation cover consisting of primarily sea oats (*Panicum repens*), beach grass (*Panicum amarumus*) and other native dune plant species.	Mix of native and introduced vegetation.	Primarily non-native plant species or lacking vegetation.	Lack of vegetation to provide resources and protection for colonization.	7	0

Impact	
Functional Loss = sum of above scores/30	**0.7000**
Functional Loss x acres of impact	**0.0350**

Mitigation	
Functional Gain = sum of mitigation - existing scores/30	
Functional Gain x acres of mitigation	

Perdido Key Beach Mouse Habitat Assessment

Site/Project Name: SR 292 Multi-use Path FPID: 438908-2	**Application Number:**	**Assessment Area Name/Number:** Site 7
Impact or Mitigation: Mitigation = 0.1407 Acres	**Assessment conducted by:** Josey Walker, HDR	**Assessment date:** October 30, 2018

	Optimal (10)	Moderate (7)	Minimal (4)	Insufficient (0)	Existing	Impact/Mitigation
Location and landscape support:	Unobstructed primary, secondary, or shrub dunes with high maximum elevations that provide food resources, protection, and burrow sites.	Primary, secondary, or shrub dunes within close proximity to roads, buildings, or parking areas interrupting continuity on one side of the assessed site.	Primary, secondary, or shrub dunes within close proximity and level to roads, buildings, or parking areas interrupt continuity on both sides of the assessed site.	Uninhabitable level ground within close proximity and level to roads, buildings, or parking areas interrupt continuity on either side of the assessed site.	7	7
Substrate:	Greater than 70% of substrate consisting of natural sand/soils.	30-70% of substrate consisting of natural sand/soils.	<30 % of substrate consisting of natural sands/soils. Site primarily uninhabitable due to compact soils or heavy debris.	Site consists of an impervious surface such as a driveway or sidewalk or area completely sodded.	7	10
Vegetation:	Sparse vegetation cover consisting of primarily sea oats (*Panicum repens*), beach grass (*Panicum amarumus*) and other native dune plant species.	Mix of native and introduced vegetation.	Primarily non-native plant species or lacking vegetation.	Lack of vegetation to provide resources and protection for colonization.	7	10

Impact	
Functional Loss = sum of above scores/30	
Functional Loss x acres of impact	

Mitigation	
Functional Gain = sum of mitigation - existing scores/30	**0.2000**
Functional Gain x acres of mitigation	**0.0281**

Critical Habitat Site 8

Perdido Key Beach Mouse Habitat Assessment

Site/Project Name: SR 292 Multi-use Path FPID: 438908-2	**Application Number:**	**Assessment Area Name/Number:** Site 8
Impact or Mitigation: Impacts = 0.0129 Acres	**Assessment conducted by:** Josey Walker, HDR	**Assessment date:** October 30, 2018

	Optimal (10)	Moderate (7)	Minimal (4)	Insufficient (0)	Existing	Impact/Mitigation
Location and landscape support:	Unobstructed primary, secondary, or shrub dunes with high maximum elevations that provide food resources, protection, and burrow sites.	Primary, secondary, or shrub dunes within close proximity to roads, buildings, or parking areas interrupting continuity on one side of the assessed site.	Primary, secondary, or shrub dunes within close proximity and level to roads, buildings, or parking areas interrupt continuity on both sides of the assessed site.	Uninhabitable level ground within close proximity and level to roads, buildings, or parking areas interrupt continuity on either side of the assessed site.	7	0
Substrate:	Greater than 70% of substrate consisting of natural sand/soils.	30-70% of substrate consisting of natural sand/soils.	<30 % of substrate consisting of natural sands/soils. Site primarily uninhabitable due to compact soils or heavy debris.	Site consists of an impervious surface such as a driveway or sidewalk or area completely sodded.	4	0
Vegetation:	Sparse vegetation cover consisting of primarily sea oats (*Panicum repens*), beach grass (*Panicum amarumus*) and other native dune plant species.	Mix of native and introduced vegetation.	Primarily non-native plant species or lacking vegetation.	Lack of vegetation to provide resources and protection for colonization.	4	0

Impact	
Functional Loss = sum of above scores/30	**0.5000**
Functional Loss x acres of impact	**0.0065**

Mitigation	
Functional Gain = sum of mitigation - existing scores/30	
Functional Gain x acres of mitigation	

Perdido Key Beach Mouse Habitat Assessment

Site/Project Name: SR 292 Multi-use Path FPID: 438908-2	**Application Number:**	**Assessment Area Name/Number:** Site 8
Impact or Mitigation: Mitigation = 0.0366 Acres	**Assessment conducted by:** Josey Walker, HDR	**Assessment date:** October 30, 2018

	Optimal (10)	Moderate (7)	Minimal (4)	Insufficient (0)	Existing	Impact/Mitigation
Location and landscape support:	Unobstructed primary, secondary, or shrub dunes with high maximum elevations that provide food resources, protection, and burrow sites.	Primary, secondary, or shrub dunes within close proximity to roads, buildings, or parking areas interrupting continuity on one side of the assessed site.	Primary, secondary, or shrub dunes within close proximity and level to roads, buildings, or parking areas interrupt continuity on both sides of the assessed site.	Uninhabitable level ground within close proximity and level to roads, buildings, or parking areas interrupt continuity on either side of the assessed site.	7	7
Substrate:	Greater than 70% of substrate consisting of natural sand/soils.	30-70% of substrate consisting of natural sand/soils.	<30 % of substrate consisting of natural sands/soils. Site primarily uninhabitable due to compact soils or heavy debris.	Site consists of an impervious surface such as a driveway or sidewalk or area completely sodded.	4	10
Vegetation:	Sparse vegetation cover consisting of primarily sea oats (*Panicum repens*), beach grass (*Panicum amarumus*) and other native dune plant species.	Mix of native and introduced vegetation.	Primarily non-native plant species or lacking vegetation.	Lack of vegetation to provide resources and protection for colonization.	4	10

Impact	
Functional Loss = sum of above scores/30	
Functional Loss x acres of impact	

Mitigation	
Functional Gain = sum of mitigation - existing scores/30	**0.4000**
Functional Gain x acres of mitigation	**0.0146**

Critical Habitat Site 9

Perdido Key Beach Mouse Habitat Assessment

Site/Project Name: SR 292 Multi-use Path FPID: 438908-2	**Application Number:**	**Assessment Area Name/Number:** Site 9
Impact or Mitigation: Impacts = 0.0163 Acres	**Assessment conducted by:** Josey Walker, HDR	**Assessment date:** October 30, 2018

	Optimal (10)	Moderate (7)	Minimal (4)	Insufficient (0)	Existing	Impact/Mitigation
Location and landscape support:	Unobstructed primary, secondary, or shrub dunes with high maximum elevations that provide food resources, protection, and burrow sites.	Primary, secondary, or shrub dunes within close proximity to roads, buildings, or parking areas interrupting continuity on one side of the assessed site.	Primary, secondary, or shrub dunes within close proximity and level to roads, buildings, or parking areas interrupt continuity on both sides of the assessed site.	Uninhabitable level ground within close proximity and level to roads, buildings, or parking areas interrupt continuity on either side of the assessed site.	4	0
Substrate:	Greater than 70% of substrate consisting of natural sand/soils.	30-70% of substrate consisting of natural sand/soils.	<30 % of substrate consisting of natural sands/soils. Site primarily uninhabitable due to compact soils or heavy debris.	Site consists of an impervious surface such as a driveway or sidewalk or area completely sodded.	4	0
Vegetation:	Sparse vegetation cover consisting of primarily sea oats (*Panicum repens*), beach grass (*Panicum amarumus*) and other native dune plant species.	Mix of native and introduced vegetation.	Primarily non-native plant species or lacking vegetation.	Lack of vegetation to provide resources and protection for colonization.	4	0

Impact	
Functional Loss = sum of above scores/30	**0.4000**
Functional Loss x acres of impact	**0.0065**

Mitigation	
Functional Gain = sum of mitigation - existing scores/30	
Functional Gain x acres of mitigation	

Perdido Key Beach Mouse Habitat Assessment

Site/Project Name: SR 292 Multi-use Path FPID: 438908-2	**Application Number:**	**Assessment Area Name/Number:** Site 9
Impact or Mitigation: Mitigation = 0.0481 Acres	**Assessment conducted by:** Josey Walker, HDR	**Assessment date:** October 30, 2018

	Optimal (10)	Moderate (7)	Minimal (4)	Insufficient (0)	Existing	Impact/Mitigation
Location and landscape support:	Unobstructed primary, secondary, or shrub dunes with high maximum elevations that provide food resources, protection, and burrow sites.	Primary, secondary, or shrub dunes within close proximity to roads, buildings, or parking areas interrupting continuity on one side of the assessed site.	Primary, secondary, or shrub dunes within close proximity and level to roads, buildings, or parking areas interrupt continuity on both sides of the assessed site.	Uninhabitable level ground within close proximity and level to roads, buildings, or parking areas interrupt continuity on either side of the assessed site.	4	4
Substrate:	Greater than 70% of substrate consisting of natural sand/soils.	30-70% of substrate consisting of natural sand/soils.	<30 % of substrate consisting of natural sands/soils. Site primarily uninhabitable due to compact soils or heavy debris.	Site consists of an impervious surface such as a driveway or sidewalk or area completely sodded.	4	10
Vegetation:	Sparse vegetation cover consisting of primarily sea oats (*Panicum repens*), beach grass (*Panicum amarumus*) and other native dune plant species.	Mix of native and introduced vegetation.	Primarily non-native plant species or lacking vegetation.	Lack of vegetation to provide resources and protection for colonization.	4	10

Impact	
Functional Loss = sum of above scores/30	
Functional Loss x acres of impact	

Mitigation	
Functional Gain = sum of mitigation - existing scores/30	**0.4000**
Functional Gain x acres of mitigation	**0.0192**

Critical Habitat Site 10

Perdido Key Beach Mouse Habitat Assessment

Site/Project Name: SR 292 Multi-use Path FPID: 438908-2	**Application Number:**	**Assessment Area Name/Number:** Site 10
Impact or Mitigation: Impacts = 0.0114 Acres	**Assessment conducted by:** Josey Walker, HDR	**Assessment date:** October 30, 2018

	Optimal (10)	Moderate (7)	Minimal (4)	Insufficient (0)	Existing	Impact/Mitigation
Location and landscape support:	Unobstructed primary, secondary, or shrub dunes with high maximum elevations that provide food resources, protection, and burrow sites.	Primary, secondary, or shrub dunes within close proximity to roads, buildings, or parking areas interrupting continuity on one side of the assessed site.	Primary, secondary, or shrub dunes within close proximity and level to roads, buildings, or parking areas interrupt continuity on both sides of the assessed site.	Uninhabitable level ground within close proximity and level to roads, buildings, or parking areas interrupt continuity on either side of the assessed site.	7	0
Substrate:	Greater than 70% of substrate consisting of natural sand/soils.	30-70% of substrate consisting of natural sand/soils.	<30 % of substrate consisting of natural sands/soils. Site primarily uninhabitable due to compact soils or heavy debris.	Site consists of an impervious surface such as a driveway or sidewalk or area completely sodded.	7	0
Vegetation	Sparse vegetation cover consisting of primarily sea oats (*Panicum repens*), beach grass (*Panicum amarumus*) and other native dune plant species.	Mix of native and introduced vegetation.	Primarily non-native plant species or lacking vegetation.	Lack of vegetation to provide resources and protection for colonization.	4	0

Impact	
Functional Loss = sum of above scores/30	**0.6000**
Functional Loss x acres of impact	**0.0068**

Mitigation	
Functional Gain = sum of mitigation - existing scores/30	
Functional Gain x acres of mitigation	

Perdido Key Beach Mouse Habitat Assessment

Site/Project Name: SR 292 Multi-use Path FPID: 438908-2	**Application Number:**	**Assessment Area Name/Number:** Site 10
Impact or Mitigation: Mitigation = 0.0346 Acres	**Assessment conducted by:** Josey Walker, HDR	**Assessment date:** October 30, 2018

	Optimal (10)	Moderate (7)	Minimal (4)	Insufficient (0)	Existing	Impact/Mitigation
Location and landscape support:	Unobstructed primary, secondary, or shrub dunes with high maximum elevations that provide food resources, protection, and burrow sites.	Primary, secondary, or shrub dunes within close proximity to roads, buildings, or parking areas interrupting continuity on one side of the assessed site.	Primary, secondary, or shrub dunes within close proximity and level to roads, buildings, or parking areas interrupt continuity on both sides of the assessed site.	Uninhabitable level ground within close proximity and level to roads, buildings, or parking areas interrupt continuity on either side of the assessed site.	7	7
Substrate:	Greater than 70% of substrate consisting of natural sand/soils.	30-70% of substrate consisting of natural sand/soils.	<30 % of substrate consisting of natural sands/soils. Site primarily uninhabitable due to compact soils or heavy debris.	Site consists of an impervious surface such as a driveway or sidewalk or area completely sodded.	7	10
Vegetation:	Sparse vegetation cover consisting of primarily sea oats (*Panicum repens*), beach grass (*Panicum amarumus*) and other native dune plant species.	Mix of native and introduced vegetation.	Primarily non-native plant species or lacking vegetation.	Lack of vegetation to provide resources and protection for colonization.	4	10

Impact	
Functional Loss = sum of above scores/30	
Functional Loss x acres of impact	

Mitigation	
Functional Gain = sum of mitigation - existing scores/30	**0.3000**
Functional Gain x acres of mitigation	**0.0104**

Critical Habitat Site 11

Perdido Key Beach Mouse Habitat Assessment

Site/Project Name: SR 292 Multi-use Path FPID: 438908-2	**Application Number:**	**Assessment Area Name/Number:** Site 11
Impact or Mitigation: Impacts = 0.0302 Acres	**Assessment conducted by:** Josey Walker, HDR	**Assessment date:** October 30, 2018

	Optimal (10)	Moderate (7)	Minimal (4)	Insufficient (0)	Existing	Impact/Mitigation
Location and landscape support:	Unobstructed primary, secondary, or shrub dunes with high maximum elevations that provide food resources, protection, and burrow sites.	Primary, secondary, or shrub dunes within close proximity to roads, buildings, or parking areas interrupting continuity on one side of the assessed site.	Primary, secondary, or shrub dunes within close proximity and level to roads, buildings, or parking areas interrupt continuity on both sides of the assessed site.	Uninhabitable level ground within close proximity and level to roads, buildings, or parking areas interrupt continuity on either side of the assessed site.	7	0
Substrate:	Greater than 70% of substrate consisting of natural sand/soils.	30-70% of substrate consisting of natural sand/soils.	<30 % of substrate consisting of natural sands/soils. Site primarily uninhabitable due to compact soils or heavy debris.	Site consists of an impervious surface such as a driveway or sidewalk or area completely sodded.	7	0
Vegetation:	Sparse vegetation cover consisting of primarily sea oats (*Panicum repens*), beach grass (*Panicum amarumus*) and other native dune plant species.	Mix of native and introduced vegetation.	Primarily non-native plant species or lacking vegetation.	Lack of vegetation to provide resources and protection for colonization.	7	0

Impact	
Functional Loss = sum of above scores/30	**0.7000**
Functional Loss x acres of impact	**0.0211**

Mitigation	
Functional Gain = sum of mitigation - existing scores/30	
Functional Gain x acres of mitigation	

Perdido Key Beach Mouse Habitat Assessment

Site/Project Name: SR 292 Multi-use Path FPID: 438908-2	**Application Number:**	**Assessment Area Name/Number:** Site 11
Impact or Mitigation: Mitigation = 0.0715 Acres	**Assessment conducted by:** Josey Walker, HDR	**Assessment date:** October 30, 2018

	Optimal (10)	Moderate (7)	Minimal (4)	Insufficient (0)	Existing	Impact/Mitigation
Location and landscape support:	Unobstructed primary, secondary, or shrub dunes with high maximum elevations that provide food resources, protection, and burrow sites.	Primary, secondary, or shrub dunes within close proximity to roads, buildings, or parking areas interrupting continuity on one side of the assessed site.	Primary, secondary, or shrub dunes within close proximity and level to roads, buildings, or parking areas interrupt continuity on both sides of the assessed site.	Uninhabitable level ground within close proximity and level to roads, buildings, or parking areas interrupt continuity on either side of the assessed site.	7	7
Substrate:	Greater than 70% of substrate consisting of natural sand/soils.	30-70% of substrate consisting of natural sand/soils.	<30 % of substrate consisting of natural sands/soils. Site primarily uninhabitable due to compact soils or heavy debris.	Site consists of an impervious surface such as a driveway or sidewalk or area completely sodded.	7	10
Vegetation:	Sparse vegetation cover consisting of primarily sea oats (*Panicum repens*), beach grass (*Panicum amarumus*) and other native dune plant species.	Mix of native and introduced vegetation.	Primarily non-native plant species or lacking vegetation.	Lack of vegetation to provide resources and protection for colonization.	7	10

Impact	
Functional Loss = sum of above scores/30	
Functional Loss x acres of impact	

Mitigation	
Functional Gain = sum of mitigation - existing scores/30	**0.2000**
Functional Gain x acres of mitigation	**0.0143**

Critical Habitat Site 12

Perdido Key Beach Mouse Habitat Assessment

Site/Project Name: SR 292 Multi-use Path FPID: 438908-2	**Application Number:**	**Assessment Area Name/Number:** Site 12
Impact or Mitigation: Impacts = 0.0214 Acres	**Assessment conducted by:** Josey Walker, HDR	**Assessment date:** October 30, 2018

	Optimal (10)	Moderate (7)	Minimal (4)	Insufficient (0)	Existing	Impact/Mitigation
Location and landscape support:	Unobstructed primary, secondary, or shrub dunes with high maximum elevations that provide food resources, protection, and burrow sites.	Primary, secondary, or shrub dunes within close proximity to roads, buildings, or parking areas interrupting continuity on one side of the assessed site.	Primary, secondary, or shrub dunes within close proximity and level to roads, buildings, or parking areas interrupt continuity on both sides of the assessed site.	Uninhabitable level ground within close proximity and level to roads, buildings, or parking areas interrupt continuity on either side of the assessed site.	4	0
Substrate:	Greater than 70% of substrate consisting of natural sand/soils.	30-70% of substrate consisting of natural sand/soils.	<30 % of substrate consisting of natural sands/soils. Site primarily uninhabitable due to compact soils or heavy debris.	Site consists of an impervious surface such as a driveway or sidewalk or area completely sodded.	7	0
Vegetation:	Sparse vegetation cover consisting of primarily sea oats (*Panicum repens*), beach grass (*Panicum amarumus*) and other native dune plant species.	Mix of native and introduced vegetation.	Primarily non-native plant species or lacking vegetation.	Lack of vegetation to provide resources and protection for colonization.	7	0

Impact	
Functional Loss = sum of above scores/30	**0.6000**
Functional Loss x acres of impact	**0.0128**

Mitigation	
Functional Gain = sum of mitigation - existing scores/30	
Functional Gain x acres of mitigation	

Perdido Key Beach Mouse Habitat Assessment

Site/Project Name: SR 292 Multi-use Path FPID: 438908-2	**Application Number:**	**Assessment Area Name/Number:** Site 12
Impact or Mitigation: Mitigation = 0.0599 Acres	**Assessment conducted by:** Josey Walker, HDR	**Assessment date:** October 30, 2018

	Optimal (10)	Moderate (7)	Minimal (4)	Insufficient (0)	Existing	Impact/Mitigation
Location and landscape support:	Unobstructed primary, secondary, or shrub dunes with high maximum elevations that provide food resources, protection, and burrow sites.	Primary, secondary, or shrub dunes within close proximity to roads, buildings, or parking areas interrupting continuity on one side of the assessed site.	Primary, secondary, or shrub dunes within close proximity and level to roads, buildings, or parking areas interrupt continuity on both sides of the assessed site.	Uninhabitable level ground within close proximity and level to roads, buildings, or parking areas interrupt continuity on either side of the assessed site.	4	4
Substrate:	Greater than 70% of substrate consisting of natural sand/soils.	30-70% of substrate consisting of natural sand/soils.	<30 % of substrate consisting of natural sands/soils. Site primarily uninhabitable due to compact soils or heavy debris.	Site consists of an impervious surface such as a driveway or sidewalk or area completely sodded.	7	10
Vegetation:	Sparse vegetation cover consisting of primarily sea oats (*Panicum repens*), beach grass (*Panicum amarumus*) and other native dune plant species.	Mix of native and introduced vegetation.	Primarily non-native plant species or lacking vegetation.	Lack of vegetation to provide resources and protection for colonization.	7	10

Impact	
Functional Loss = sum of above scores/30	
Functional Loss x acres of impact	

Mitigation	
Functional Gain = sum of mitigation - existing scores/30	**0.2000**
Functional Gain x acres of mitigation	**0.0120**

Critical Habitat Site 13

Perdido Key Beach Mouse Habitat Assessment

Site/Project Name: SR 292 Multi-use Path FPID: 438908-2	**Application Number:**	**Assessment Area Name/Number:** Site 13
Impact or Mitigation: Impacts = 0.0158 Acres	**Assessment conducted by:** Josey Walker, HDR	**Assessment date:** October 30, 2018

	Optimal (10)	Moderate (7)	Minimal (4)	Insufficient (0)	Existing	Impact/Mitigation
Location and landscape support:	Unobstructed primary, secondary, or shrub dunes with high maximum elevations that provide food resources, protection, and burrow sites.	Primary, secondary, or shrub dunes within close proximity to roads, buildings, or parking areas interrupting continuity on one side of the assessed site.	Primary, secondary, or shrub dunes within close proximity and level to roads, buildings, or parking areas interrupt continuity on both sides of the assessed site.	Uninhabitable level ground within close proximity and level to roads, buildings, or parking areas interrupt continuity on either side of the assessed site.	4	0
Substrate:	Greater than 70% of substrate consisting of natural sand/soils.	30-70% of substrate consisting of natural sand/soils.	<30 % of substrate consisting of natural sands/soils. Site primarily uninhabitable due to compact soils or heavy debris.	Site consists of an impervious surface such as a driveway or sidewalk or area completely sodded.	10	0
Vegetation:	Sparse vegetation cover consisting of primarily sea oats (*Panicum repens*), beach grass (*Panicum amarumus*) and other native dune plant species.	Mix of native and introduced vegetation.	Primarily non-native plant species or lacking vegetation.	Lack of vegetation to provide resources and protection for colonization.	10	0

Impact	
Functional Loss = sum of above scores/30	**0.8000**
Functional Loss x acres of impact	**0.0126**

Mitigation	
Functional Gain = sum of mitigation - existing scores/30	
Functional Gain x acres of mitigation	

Perdido Key Beach Mouse Habitat Assessment

Site/Project Name: SR 292 Multi-use Path FPID: 438908-2	**Application Number:**	**Assessment Area Name/Number:** Site 13
Impact or Mitigation: Mitigation = 0.0394 Acres	**Assessment conducted by:** Josey Walker, HDR	**Assessment date:** October 30, 2018

	Optimal (10)	Moderate (7)	Minimal (4)	Insufficient (0)	Existing	Impact/Mitigation
Location and landscape support:	Unobstructed primary, secondary, or shrub dunes with high maximum elevations that provide food resources, protection, and burrow sites.	Primary, secondary, or shrub dunes within close proximity to roads, buildings, or parking areas interrupting continuity on one side of the assessed site.	Primary, secondary, or shrub dunes within close proximity and level to roads, buildings, or parking areas interrupt continuity on both sides of the assessed site.	Uninhabitable level ground within close proximity and level to roads, buildings, or parking areas interrupt continuity on either side of the assessed site.	4	4
Substrate:	Greater than 70% of substrate consisting of natural sand/soils.	30-70% of substrate consisting of natural sand/soils.	<30 % of substrate consisting of natural sands/soils. Site primarily uninhabitable due to compact soils or heavy debris.	Site consists of an impervious surface such as a driveway or sidewalk or area completely sodded.	10	10
Vegetation:	Sparse vegetation cover consisting of primarily sea oats (*Panicum repens*), beach grass (*Panicum amarumus*) and other native dune plant species.	Mix of native and introduced vegetation.	Primarily non-native plant species or lacking vegetation.	Lack of vegetation to provide resources and protection for colonization.	10	10

Impact	
Functional Loss = sum of above scores/30	
Functional Loss x acres of impact	

Mitigation	
Functional Gain = sum of mitigation - existing scores/30	**0**
Functional Gain x acres of mitigation	**0**

Critical Habitat Site 14

Perdido Key Beach Mouse Habitat Assessment

Site/Project Name: SR 292 Multi-use Path FPID: 438908-2	**Application Number:**	**Assessment Area Name/Number:** Site 14
Impact or Mitigation: Impacts = 0.0148 Acres	**Assessment conducted by:** Josey Walker, HDR	**Assessment date:** October 30, 2018

	Optimal (10)	Moderate (7)	Minimal (4)	Insufficient (0)	Existing	Impact/Mitigation
Location and landscape support:	Unobstructed primary, secondary, or shrub dunes with high maximum elevations that provide food resources, protection, and burrow sites.	Primary, secondary, or shrub dunes within close proximity to roads, buildings, or parking areas interrupting continuity on one side of the assessed site.	Primary, secondary, or shrub dunes within close proximity and level to roads, buildings, or parking areas interrupt continuity on both sides of the assessed site.	Uninhabitable level ground within close proximity and level to roads, buildings, or parking areas interrupt continuity on either side of the assessed site.	4	0
Substrate:	Greater than 70% of substrate consisting of natural sand/soils.	30-70% of substrate consisting of natural sand/soils.	<30 % of substrate consisting of natural sands/soils. Site primarily uninhabitable due to compact soils or heavy debris.	Site consists of an impervious surface such as a driveway or sidewalk or area completely sodded.	4	0
Vegetation:	Sparse vegetation cover consisting of primarily sea oats (*Panicum repens*), beach grass (*Panicum amarumus*) and other native dune plant species.	Mix of native and introduced vegetation.	Primarily non-native plant species or lacking vegetation.	Lack of vegetation to provide resources and protection for colonization.	4	0

Impact	
Functional Loss = sum of above scores/30	**0.4000**
Functional Loss x acres of impact	**0.0059**

Mitigation	
Functional Gain = sum of mitigation - existing scores/30	
Functional Gain x acres of mitigation	

Perdido Key Beach Mouse Habitat Assessment

Site/Project Name: SR 292 Multi-use Path FPID: 438908-2	**Application Number:**	**Assessment Area Name/Number:** Site 14
Impact or Mitigation: Mitigation = 0.0352 Acres	**Assessment conducted by:** Josey Walker, HDR	**Assessment date:** October 30, 2018

	Optimal (10)	Moderate (7)	Minimal (4)	Insufficient (0)	Existing	Impact/Mitigation
Location and landscape support:	Unobstructed primary, secondary, or shrub dunes with high maximum elevations that provide food resources, protection, and burrow sites.	Primary, secondary, or shrub dunes within close proximity to roads, buildings, or parking areas interrupting continuity on one side of the assessed site.	Primary, secondary, or shrub dunes within close proximity and level to roads, buildings, or parking areas interrupt continuity on both sides of the assessed site.	Uninhabitable level ground within close proximity and level to roads, buildings, or parking areas interrupt continuity on either side of the assessed site.	4	4
Substrate:	Greater than 70% of substrate consisting of natural sand/soils.	30-70% of substrate consisting of natural sand/soils.	<30 % of substrate consisting of natural sands/soils. Site primarily uninhabitable due to compact soils or heavy debris.	Site consists of an impervious surface such as a driveway or sidewalk or area completely sodded.	4	10
Vegetation:	Sparse vegetation cover consisting of primarily sea oats (*Panicum repens*), beach grass (*Panicum amarumus*) and other native dune plant species.	Mix of native and introduced vegetation.	Primarily non-native plant species or lacking vegetation.	Lack of vegetation to provide resources and protection for colonization.	4	10

Impact	
Functional Loss = sum of above scores/30	
Functional Loss x acres of impact	

Mitigation	
Functional Gain = sum of mitigation - existing scores/30	**0.4000**
Functional Gain x acres of mitigation	**0.0141**

Critical Habitat Site 15

Site/Project Name: SR 292 Multi-use Path FPID: 438908-2	Application Number:	Assessment Area Name/Number: Site 15
Impact or Mitigation: Impacts = 0.0152 Acres	**Assessment conducted by:** Josey Walker, HDR	**Assessment date:** October 30, 2018

	Optimal (10)	Moderate (7)	Minimal (4)	Insufficient (0)	Existing	Impact/Mitigation
Location and landscape support:	Unobstructed primary, secondary, or shrub dunes with high maximum elevations that provide food resources, protection, and burrow sites.	Primary, secondary, or shrub dunes within close proximity to roads, buildings, or parking areas interrupting continuity on one side of the assessed site.	Primary, secondary, or shrub dunes within close proximity and level to roads, buildings, or parking areas interrupt continuity on both sides of the assessed site.	Uninhabitable level ground within close proximity and level to roads, buildings, or parking areas interrupt continuity on either side of the assessed site.	4	0
Substrate:	Greater than 70% of substrate consisting of natural sand/soils.	30-70% of substrate consisting of natural sand/soils.	<30 % of substrate consisting of natural sands/soils. Site primarily uninhabitable due to compact soils or heavy debris.	Site consists of an impervious surface such as a driveway or sidewalk or area completely sodded.	4	0
Vegetation:	Sparse vegetation cover consisting of primarily sea oats (*Panicum repens*), beach grass (*Panicum amarumus*) and other native dune plant species.	Mix of native and introduced vegetation.	Primarily non-native plant species or lacking vegetation.	Lack of vegetation to provide resources and protection for colonization.	4	0

Impact	
Functional Loss = sum of above scores/30	**0.4000**
Functional Loss x acres of impact	**0.0061**

Mitigation	
Functional Gain = sum of mitigation - existing scores/30	
Functional Gain x acres of mitigation	

Perdido Key Beach Mouse Habitat Assessment

Site/Project Name: SR 292 Multi-use Path FPID: 438908-2	**Application Number:**	**Assessment Area Name/Number:** Site 15
Impact or Mitigation: Mitigation = 0.0503 Acres	**Assessment conducted by:** Josey Walker, HDR	**Assessment date:** October 30, 2018

	Optimal (10)	Moderate (7)	Minimal (4)	Insufficient (0)	Existing	Impact/Mitigation
Location and landscape support:	Unobstructed primary, secondary, or shrub dunes with high maximum elevations that provide food resources, protection, and burrow sites.	Primary, secondary, or shrub dunes within close proximity to roads, buildings, or parking areas interrupting continuity on one side of the assessed site.	Primary, secondary, or shrub dunes within close proximity and level to roads, buildings, or parking areas interrupt continuity on both sides of the assessed site.	Uninhabitable level ground within close proximity and level to roads, buildings, or parking areas interrupt continuity on either side of the assessed site.	4	4
Substrate:	Greater than 70% of substrate consisting of natural sand/soils.	30-70% of substrate consisting of natural sand/soils.	<30 % of substrate consisting of natural sands/soils. Site primarily uninhabitable due to compact soils or heavy debris.	Site consists of an impervious surface such as a driveway or sidewalk or area completely sodded.	4	10
Vegetation:	Sparse vegetation cover consisting of primarily sea oats (*Panicum repens*), beach grass (*Panicum amarumus*) and other native dune plant species.	Mix of native and introduced vegetation.	Primarily non-native plant species or lacking vegetation.	Lack of vegetation to provide resources and protection for colonization.	4	10

Impact	
Functional Loss = sum of above scores/30	
Functional Loss x acres of impact	

Mitigation	
Functional Gain = sum of mitigation - existing scores/30	**0.4000**
Functional Gain x acres of mitigation	**0.0201**

Critical Habitat Site 16

Perdido Key Beach Mouse Habitat Assessment

Site/Project Name: SR 292 Multi-use Path FPID: 438908-2	**Application Number:**	**Assessment Area Name/Number:** Site 16
Impact or Mitigation: Impacts = 0.0765 Acres	**Assessment conducted by:** Josey Walker, HDR	**Assessment date:** October 30, 2018

	Optimal (10)	Moderate (7)	Minimal (4)	Insufficient (0)	Existing	Impact/Mitigation
Location and landscape support:	Unobstructed primary, secondary, or shrub dunes with high maximum elevations that provide food resources, protection, and burrow sites.	Primary, secondary, or shrub dunes within close proximity to roads, buildings, or parking areas interrupting continuity on one side of the assessed site.	Primary, secondary, or shrub dunes within close proximity and level to roads, buildings, or parking areas interrupt continuity on both sides of the assessed site.	Uninhabitable level ground within close proximity and level to roads, buildings, or parking areas interrupt continuity on either side of the assessed site.	7	0
Substrate:	Greater than 70% of substrate consisting of natural sand/soils.	30-70% of substrate consisting of natural sand/soils.	<30 % of substrate consisting of natural sands/soils. Site primarily uninhabitable due to compact soils or heavy debris.	Site consists of an impervious surface such as a driveway or sidewalk or area completely sodded.	7	0
Vegetation	Sparse vegetation cover consisting of primarily sea oats (*Panicum repens*), beach grass (*Panicum amarumus*) and other native dune plant species.	Mix of native and introduced vegetation.	Primarily non-native plant species or lacking vegetation.	Lack of vegetation to provide resources and protection for colonization.	7	0

Impact	
Functional Loss = sum of above scores/30	**0.7000**
Functional Loss x acres of impact	**0.0536**

Mitigation	
Functional Gain = sum of mitigation - existing scores/30	
Functional Gain x acres of mitigation	

Perdido Key Beach Mouse Habitat Assessment

Site/Project Name: SR 292 Multi-use Path FPID: 438908-2	**Application Number:**	**Assessment Area Name/Number:** Site 16
Impact or Mitigation: Mitigation = 0.1821 Acres	**Assessment conducted by:** Josey Walker, HDR	**Assessment date:** October 30, 2018

	Optimal (10)	Moderate (7)	Minimal (4)	Insufficient (0)	Existing	Impact/Mitigation
Location and landscape support:	Unobstructed primary, secondary, or shrub dunes with high maximum elevations that provide food resources, protection, and burrow sites.	Primary, secondary, or shrub dunes within close proximity to roads, buildings, or parking areas interrupting continuity on one side of the assessed site.	Primary, secondary, or shrub dunes within close proximity and level to roads, buildings, or parking areas interrupt continuity on both sides of the assessed site.	Uninhabitable level ground within close proximity and level to roads, buildings, or parking areas interrupt continuity on either side of the assessed site.	7	7
Substrate:	Greater than 70% of substrate consisting of natural sand/soils.	30-70% of substrate consisting of natural sand/soils.	<30 % of substrate consisting of natural sands/soils. Site primarily uninhabitable due to compact soils or heavy debris.	Site consists of an impervious surface such as a driveway or sidewalk or area completely sodded.	7	10
Vegetation:	Sparse vegetation cover consisting of primarily sea oats (*Panicum repens*), beach grass (Panicum amarumus) and other native dune plant species.	Mix of native and introduced vegetation.	Primarily non-native plant species or lacking vegetation.	Lack of vegetation to provide resources and protection for colonization.	7	10

Impact	
Functional Loss = sum of above scores/30	
Functional Loss x acres of impact	

Mitigation	
Functional Gain = sum of mitigation - existing scores/30	**0.2000**
Functional Gain x acres of mitigation	**0.0364**

Critical Habitat Site 17

Perdido Key Beach Mouse Habitat Assessment

Site/Project Name: SR 292 Multi-use Path FPID: 438908-2	**Application Number:**	**Assessment Area Name/Number:** Site 17
Impact or Mitigation: Impacts = 0.0022 Acres	**Assessment conducted by:** Josey Walker, HDR	**Assessment date:** October 30, 2018

	Optimal (10)	Moderate (7)	Minimal (4)	Insufficient (0)	Existing	Impact/Mitigation
Location and landscape support:	Unobstructed primary, secondary, or shrub dunes with high maximum elevations that provide food resources, protection, and burrow sites.	Primary, secondary, or shrub dunes within close proximity to roads, buildings, or parking areas interrupting continuity on one side of the assessed site.	Primary, secondary, or shrub dunes within close proximity and level to roads, buildings, or parking areas interrupt continuity on both sides of the assessed site.	Uninhabitable level ground within close proximity and level to roads, buildings, or parking areas interrupt continuity on either side of the assessed site.	4	0
Substrate:	Greater than 70% of substrate consisting of natural sand/soils.	30-70% of substrate consisting of natural sand/soils.	<30 % of substrate consisting of natural sands/soils. Site primarily uninhabitable due to compact soils or heavy debris.	Site consists of an impervious surface such as a driveway or sidewalk or area completely sodded.	4	0
Vegetation:	Sparse vegetation cover consisting of primarily sea oats (*Panicum repens*), beach grass (*Panicum amarumus*) and other native dune plant species.	Mix of native and introduced vegetation.	Primarily non-native plant species or lacking vegetation.	Lack of vegetation to provide resources and protection for colonization.	4	0

Impact	
Functional Loss = sum of above scores/30	**0.4000**
Functional Loss x acres of impact	**0.0009**

Mitigation	
Functional Gain = sum of mitigation - existing scores/30	
Functional Gain x acres of mitigation	

Perdido Key Beach Mouse Habitat Assessment

Site/Project Name: SR 292 Multi-use Path FPID: 438908-2	**Application Number:**	**Assessment Area Name/Number:** Site 17
Impact or Mitigation: Mitigation = 0.0043 Acres	**Assessment conducted by:** Josey Walker, HDR	**Assessment date:** October 30, 2018

	Optimal (10)	Moderate (7)	Minimal (4)	Insufficient (0)	Existing	Impact/Mitigation
Location and landscape support:	Unobstructed primary, secondary, or shrub dunes with high maximum elevations that provide food resources, protection, and burrow sites.	Primary, secondary, or shrub dunes within close proximity to roads, buildings, or parking areas interrupting continuity on one side of the assessed site.	Primary, secondary, or shrub dunes within close proximity and level to roads, buildings, or parking areas interrupt continuity on both sides of the assessed site.	Uninhabitable level ground within close proximity and level to roads, buildings, or parking areas interrupt continuity on either side of the assessed site.	4	4
Substrate:	Greater than 70% of substrate consisting of natural sand/soils.	30-70% of substrate consisting of natural sand/soils.	<30 % of substrate consisting of natural sands/soils. Site primarily uninhabitable due to compact soils or heavy debris.	Site consists of an impervious surface such as a driveway or sidewalk or area completely sodded.	4	10
Vegetation:	Sparse vegetation cover consisting of primarily sea oats (*Panicum repens*), beach grass (*Panicum amarumus*) and other native dune plant species.	Mix of native and introduced vegetation.	Primarily non-native plant species or lacking vegetation.	Lack of vegetation to provide resources and protection for colonization.	4	10

Impact	
Functional Loss = sum of above scores/30	
Functional Loss x acres of impact	

Mitigation	
Functional Gain = sum of mitigation - existing scores/30	**0.4000**
Functional Gain x acres of mitigation	**0.0017**

Critical Habitat Site 18

Site/Project Name: SR 292 Multi-use Path FPID: 438908-2	Application Number:	Assessment Area Name/Number: Site 18
Impact or Mitigation: Impacts = 0.0044 Acres	**Assessment conducted by:** Josey Walker, HDR	**Assessment date:** October 30, 2018

	Optimal (10)	Moderate (7)	Minimal (4)	Insufficient (0)	Existing	Impact/Mitigation
Location and landscape support:	Unobstructed primary, secondary, or shrub dunes with high maximum elevations that provide food resources, protection, and burrow sites.	Primary, secondary, or shrub dunes within close proximity to roads, buildings, or parking areas interrupting continuity on one side of the assessed site.	Primary, secondary, or shrub dunes within close proximity and level to roads, buildings, or parking areas interrupt continuity on both sides of the assessed site.	Uninhabitable level ground within close proximity and level to roads, buildings, or parking areas interrupt continuity on either side of the assessed site.	7	0
Substrate:	Greater than 70% of substrate consisting of natural sand/soils.	30-70% of substrate consisting of natural sand/soils.	<30 % of substrate consisting of natural sands/soils. Site primarily uninhabitable due to compact soils or heavy debris.	Site consists of an impervious surface such as a driveway or sidewalk or area completely sodded.	4	0
Vegetation	Sparse vegetation cover consisting of primarily sea oats (*Panicum repens*), beach grass (*Panicum amarumus*) and other native dune plant species.	Mix of native and introduced vegetation.	Primarily non-native plant species or lacking vegetation.	Lack of vegetation to provide resources and protection for colonization.	4	0

Impact	
Functional Loss = sum of above scores/30	**0.5000**
Functional Loss x acres of impact	**0.0022**

Mitigation	
Functional Gain = sum of mitigation - existing scores/30	
Functional Gain x acres of mitigation	

Perdido Key Beach Mouse Habitat Assessment

Site/Project Name: SR 292 Multi-use Path FPID: 438908-2	Application Number:	Assessment Area Name/Number: Site 18
Impact or Mitigation: Mitigation = 0.0174 Acres	**Assessment conducted by:** Josey Walker, HDR	**Assessment date:** October 30, 2018

	Optimal (10)	Moderate (7)	Minimal (4)	Insufficient (0)	Existing	Impact/Mitigation
Location and landscape support:	Unobstructed primary, secondary, or shrub dunes with high maximum elevations that provide food resources, protection, and burrow sites.	Primary, secondary, or shrub dunes within close proximity to roads, buildings, or parking areas interrupting continuity on one side of the assessed site.	Primary, secondary, or shrub dunes within close proximity and level to roads, buildings, or parking areas interrupt continuity on both sides of the assessed site.	Uninhabitable level ground within close proximity and level to roads, buildings, or parking areas interrupt continuity on either side of the assessed site.	7	7
Substrate:	Greater than 70% of substrate consisting of natural sand/soils.	30-70% of substrate consisting of natural sand/soils.	<30 % of substrate consisting of natural sands/soils. Site primarily uninhabitable due to compact soils or heavy debris.	Site consists of an impervious surface such as a driveway or sidewalk or area completely sodded.	4	10
Vegetation:	Sparse vegetation cover consisting of primarily sea oats (*Panicum repens*), beach grass (*Panicum amarumus*) and other native dune plant species.	Mix of native and introduced vegetation.	Primarily non-native plant species or lacking vegetation.	Lack of vegetation to provide resources and protection for colonization.	4	10

Impact	
Functional Loss = sum of above scores/30	
Functional Loss x acres of impact	

Mitigation	
Functional Gain = sum of mitigation - existing scores/30	**0.4000**
Functional Gain x acres of mitigation	**0.0070**

Critical Habitat Site 19

Perdido Key Beach Mouse Habitat Assessment

Site/Project Name: SR 292 Multi-use Path FPID: 438908-2	**Application Number:**	**Assessment Area Name/Number:** Site 19
Impact or Mitigation: Impacts = 0.0052 Acres	**Assessment conducted by:** Josey Walker, HDR	**Assessment date:** October 30, 2018

	Optimal (10)	Moderate (7)	Minimal (4)	Insufficient (0)	Existing	Impact/Mitigation
Location and landscape support:	Unobstructed primary, secondary, or shrub dunes with high maximum elevations that provide food resources, protection, and burrow sites.	Primary, secondary, or shrub dunes within close proximity to roads, buildings, or parking areas interrupting continuity on one side of the assessed site.	Primary, secondary, or shrub dunes within close proximity and level to roads, buildings, or parking areas interrupt continuity on both sides of the assessed site.	Uninhabitable level ground within close proximity and level to roads, buildings, or parking areas interrupt continuity on either side of the assessed site.	7	0
Substrate:	Greater than 70% of substrate consisting of natural sand/soils.	30-70% of substrate consisting of natural sand/soils.	<30 % of substrate consisting of natural sands/soils. Site primarily uninhabitable due to compact soils or heavy debris.	Site consists of an impervious surface such as a driveway or sidewalk or area completely sodded.	4	0
Vegetation:	Sparse vegetation cover consisting of primarily sea oats (*Panicum repens*), beach grass (*Panicum amarumus*) and other native dune plant species.	Mix of native and introduced vegetation.	Primarily non-native plant species or lacking vegetation.	Lack of vegetation to provide resources and protection for colonization.	4	0

Impact	
Functional Loss = sum of above scores/30	**0.5000**
Functional Loss x acres of impact	**0.0026**

Mitigation	
Functional Gain = sum of mitigation - existing scores/30	
Functional Gain x acres of mitigation	

Perdido Key Beach Mouse Habitat Assessment

Site/Project Name: SR 292 Multi-use Path FPID: 438908-2	**Application Number:**	**Assessment Area Name/Number:** Site 19
Impact or Mitigation: Mitigation = 0.0139 Acres	**Assessment conducted by:** Josey Walker, HDR	**Assessment date:** October 30, 2018

	Optimal (10)	Moderate (7)	Minimal (4)	Insufficient (0)	Existing	Impact/Mitigation
Location and landscape support:	Unobstructed primary, secondary, or shrub dunes with high maximum elevations that provide food resources, protection, and burrow sites.	Primary, secondary, or shrub dunes within close proximity to roads, buildings, or parking areas interrupting continuity on one side of the assessed site.	Primary, secondary, or shrub dunes within close proximity and level to roads, buildings, or parking areas interrupt continuity on both sides of the assessed site.	Uninhabitable level ground within close proximity and level to roads, buildings, or parking areas interrupt continuity on either side of the assessed site.	7	7
Substrate:	Greater than 70% of substrate consisting of natural sand/soils.	30-70% of substrate consisting of natural sand/soils.	<30 % of substrate consisting of natural sands/soils. Site primarily uninhabitable due to compact soils or heavy debris.	Site consists of an impervious surface such as a driveway or sidewalk or area completely sodded.	4	10
Vegetation:	Sparse vegetation cover consisting of primarily sea oats (*Panicum repens*), beach grass (*Panicum amarumus*) and other native dune plant species.	Mix of native and introduced vegetation.	Primarily non-native plant species or lacking vegetation.	Lack of vegetation to provide resources and protection for colonization.	4	10

Impact	
Functional Loss = sum of above scores/30	
Functional Loss x acres of impact	

Mitigation	
Functional Gain = sum of mitigation - existing scores/30	**0.4000**
Functional Gain x acres of mitigation	**0.0056**

Critical Habitat Site 20

Perdido Key Beach Mouse Habitat Assessment

Site/Project Name: SR 292 Multi-use Path FPID: 438908-2	**Application Number:**	**Assessment Area Name/Number:** Site 20
Impact or Mitigation: Impacts = 0.0132 Acres	**Assessment conducted by:** Josey Walker, HDR	**Assessment date:** October 30, 2018

	Optimal (10)	Moderate (7)	Minimal (4)	Insufficient (0)	Existing	Impact/Mitigation
Location and landscape support:	Unobstructed primary, secondary, or shrub dunes with high maximum elevations that provide food resources, protection, and burrow sites.	Primary, secondary, or shrub dunes within close proximity to roads, buildings, or parking areas interrupting continuity on one side of the assessed site.	Primary, secondary, or shrub dunes within close proximity and level to roads, buildings, or parking areas interrupt continuity on both sides of the assessed site.	Uninhabitable level ground within close proximity and level to roads, buildings, or parking areas interrupt continuity on either side of the assessed site.	7	0
Substrate:	Greater than 70% of substrate consisting of natural sand/soils.	30-70% of substrate consisting of natural sand/soils.	<30 % of substrate consisting of natural sands/soils. Site primarily uninhabitable due to compact soils or heavy debris.	Site consists of an impervious surface such as a driveway or sidewalk or area completely sodded.	4	0
Vegetation:	Sparse vegetation cover consisting of primarily sea oats (*Panicum repens*), beach grass (*Panicum amarumus*) and other native dune plant species.	Mix of native and introduced vegetation.	Primarily non-native plant species or lacking vegetation.	Lack of vegetation to provide resources and protection for colonization.	4	0

Impact	
Functional Loss = sum of above scores/30	**0.5000**
Functional Loss x acres of impact	**0.0066**

Mitigation	
Functional Gain = sum of mitigation - existing scores/30	
Functional Gain x acres of mitigation	

Perdido Key Beach Mouse Habitat Assessment

Site/Project Name: SR 292 Multi-use Path FPID: 438908-2	**Application Number:**	**Assessment Area Name/Number:** Site 20
Impact or Mitigation: Mitigation = 0.0248 Acres	**Assessment conducted by:** Josey Walker, HDR	**Assessment date:** October 30, 2018

	Optimal (10)	Moderate (7)	Minimal (4)	Insufficient (0)	Existing	Impact/Mitigation
Location and landscape support:	Unobstructed primary, secondary, or shrub dunes with high maximum elevations that provide food resources, protection, and burrow sites.	Primary, secondary, or shrub dunes within close proximity to roads, buildings, or parking areas interrupting continuity on one side of the assessed site.	Primary, secondary, or shrub dunes within close proximity and level to roads, buildings, or parking areas interrupt continuity on both sides of the assessed site.	Uninhabitable level ground within close proximity and level to roads, buildings, or parking areas interrupt continuity on either side of the assessed site.	7	7
Substrate:	Greater than 70% of substrate consisting of natural sand/soils.	30-70% of substrate consisting of natural sand/soils.	<30 % of substrate consisting of natural sands/soils. Site primarily uninhabitable due to compact soils or heavy debris.	Site consists of an impervious surface such as a driveway or sidewalk or area completely sodded.	4	10
Vegetation:	Sparse vegetation cover consisting of primarily sea oats (*Panicum repens*), beach grass (*Panicum amarumus*) and other native dune plant species.	Mix of native and introduced vegetation.	Primarily non-native plant species or lacking vegetation.	Lack of vegetation to provide resources and protection for colonization.	4	10

Impact	
Functional Loss = sum of above scores/30	
Functional Loss x acres of impact	

Mitigation	
Functional Gain = sum of mitigation - existing scores/30	**0.4000**
Functional Gain x acres of mitigation	**0.0099**

Critical Habitat Site 21

Perdido Key Beach Mouse Habitat Assessment

Site/Project Name: SR 292 Multi-use Path FPID: 438908-2	**Application Number:**	**Assessment Area Name/Number:** Site 21
Impact or Mitigation: Impacts = 0.0020 Acres	**Assessment conducted by:** Josey Walker, HDR	**Assessment date:** October 30, 2018

	Optimal (10)	Moderate (7)	Minimal (4)	Insufficient (0)	Existing	Impact/Mitigation
Location and landscape support:	Unobstructed primary, secondary, or shrub dunes with high maximum elevations that provide food resources, protection, and burrow sites.	Primary, secondary, or shrub dunes within close proximity to roads, buildings, or parking areas interrupting continuity on one side of the assessed site.	Primary, secondary, or shrub dunes within close proximity and level to roads, buildings, or parking areas interrupt continuity on both sides of the assessed site.	Uninhabitable level ground within close proximity and level to roads, buildings, or parking areas interrupt continuity on either side of the assessed site.	4	0
Substrate:	Greater than 70% of substrate consisting of natural sand/soils.	30-70% of substrate consisting of natural sand/soils.	<30 % of substrate consisting of natural sands/soils. Site primarily uninhabitable due to compact soils or heavy debris.	Site consists of an impervious surface such as a driveway or sidewalk or area completely sodded.	4	0
Vegetation:	Sparse vegetation cover consisting of primarily sea oats (*Panicum repens*), beach grass (*Panicum amarumus*) and other native dune plant species.	Mix of native and introduced vegetation.	Primarily non-native plant species or lacking vegetation.	Lack of vegetation to provide resources and protection for colonization.	4	0

Impact	
Functional Loss = sum of above scores/30	**0.4000**
Functional Loss x acres of impact	**0.0008**

Mitigation	
Functional Gain = sum of mitigation - existing scores/30	
Functional Gain x acres of mitigation	

Perdido Key Beach Mouse Habitat Assessment

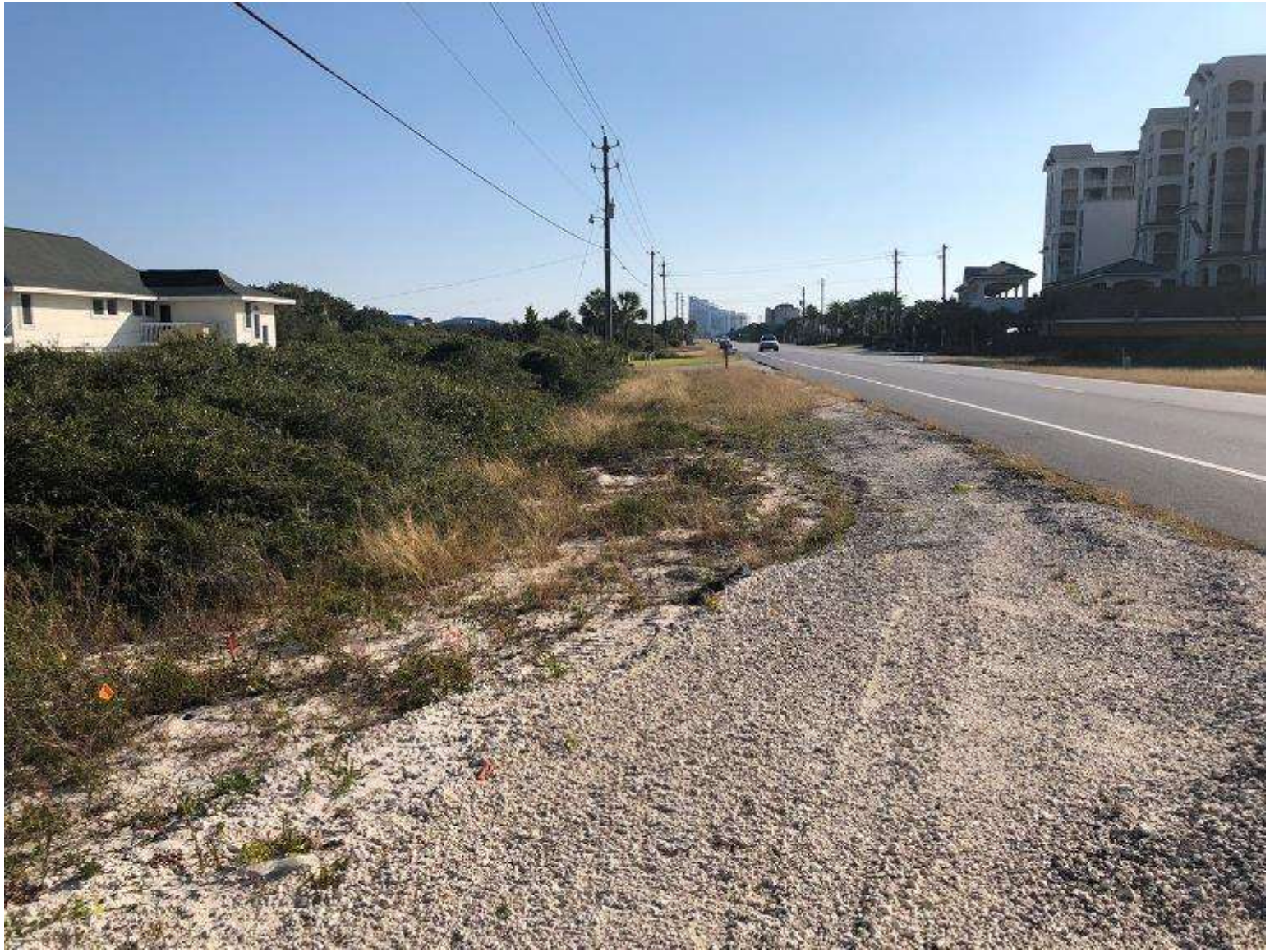
Site/Project Name: SR 292 Multi-use Path FPID: 438908-2	**Application Number:**	**Assessment Area Name/Number:** Site 21
Impact or Mitigation: Mitigation = 0.0162 Acres	**Assessment conducted by:** Josey Walker, HDR	**Assessment date:** October 30, 2018

	Optimal (10)	Moderate (7)	Minimal (4)	Insufficient (0)	Existing	Impact/Mitigation
Location and landscape support:	Unobstructed primary, secondary, or shrub dunes with high maximum elevations that provide food resources, protection, and burrow sites.	Primary, secondary, or shrub dunes within close proximity to roads, buildings, or parking areas interrupting continuity on one side of the assessed site.	Primary, secondary, or shrub dunes within close proximity and level to roads, buildings, or parking areas interrupt continuity on both sides of the assessed site.	Uninhabitable level ground within close proximity and level to roads, buildings, or parking areas interrupt continuity on either side of the assessed site.	4	4
Substrate:	Greater than 70% of substrate consisting of natural sand/soils.	30-70% of substrate consisting of natural sand/soils.	<30 % of substrate consisting of natural sands/soils. Site primarily uninhabitable due to compact soils or heavy debris.	Site consists of an impervious surface such as a driveway or sidewalk or area completely sodded.	4	10
Vegetation	Sparse vegetation cover consisting of primarily sea oats (*Panicum repens*), beach grass (*Panicum amarumus*) and other native dune plant species.	Mix of native and introduced vegetation.	Primarily non-native plant species or lacking vegetation.	Lack of vegetation to provide resources and protection for colonization.	4	10

Impact	
Functional Loss = sum of above scores/30	
Functional Loss x acres of impact	

Mitigation	
Functional Gain = sum of mitigation - existing scores/30	**0.4000**
Functional Gain x acres of mitigation	**0.0065**

Critical Habitat Site 22



Site/Project Name: SR 292 Multi-use Path FPID: 438908-2	Application Number:	Assessment Area Name/Number: Site 22
Impact or Mitigation: Impacts = 0.0367 Acres	**Assessment conducted by:** Josey Walker, HDR	**Assessment date:** October 30, 2018

	Optimal (10)	Moderate (7)	Minimal (4)	Insufficient (0)	Existing	Impact/Mitigation
Location and landscape support:	Unobstructed primary, secondary, or shrub dunes with high maximum elevations that provide food resources, protection, and burrow sites.	Primary, secondary, or shrub dunes within close proximity to roads, buildings, or parking areas interrupting continuity on one side of the assessed site.	Primary, secondary, or shrub dunes within close proximity and level to roads, buildings, or parking areas interrupt continuity on both sides of the assessed site.	Uninhabitable level ground within close proximity and level to roads, buildings, or parking areas interrupt continuity on either side of the assessed site.	7	0
Substrate:	Greater than 70% of substrate consisting of natural sand/soils.	30-70% of substrate consisting of natural sand/soils.	<30 % of substrate consisting of natural sands/soils. Site primarily uninhabitable due to compact soils or heavy debris.	Site consists of an impervious surface such as a driveway or sidewalk or area completely sodded.	4	0
Vegetation:	Sparse vegetation cover consisting of primarily sea oats (*Panicum repens*), beach grass (*Panicum amarumus*) and other native dune plant species.	Mix of native and introduced vegetation.	Primarily non-native plant species or lacking vegetation.	Lack of vegetation to provide resources and protection for colonization.	7	0

Impact	
Functional Loss = sum of above scores/30	**0.6000**
Functional Loss x acres of impact	**0.0220**

Mitigation	
Functional Gain = sum of mitigation - existing scores/30	
Functional Gain x acres of mitigation	

Perdido Key Beach Mouse Habitat Assessment

Site/Project Name: SR 292 Multi-use Path FPID: 438908-2	**Application Number:**	**Assessment Area Name/Number:** Site 22
Impact or Mitigation: Mitigation = 0.0851 Acres	**Assessment conducted by:** Josey Walker, HDR	**Assessment date:** October 30, 2018

	Optimal (10)	Moderate (7)	Minimal (4)	Insufficient (0)	Existing	Impact/Mitigation
Location and landscape support:	Unobstructed primary, secondary, or shrub dunes with high maximum elevations that provide food resources, protection, and burrow sites.	Primary, secondary, or shrub dunes within close proximity to roads, buildings, or parking areas interrupting continuity on one side of the assessed site.	Primary, secondary, or shrub dunes within close proximity and level to roads, buildings, or parking areas interrupt continuity on both sides of the assessed site.	Uninhabitable level ground within close proximity and level to roads, buildings, or parking areas interrupt continuity on either side of the assessed site.	7	7
Substrate:	Greater than 70% of substrate consisting of natural sand/soils.	30-70% of substrate consisting of natural sand/soils.	<30 % of substrate consisting of natural sands/soils. Site primarily uninhabitable due to compact soils or heavy debris.	Site consists of an impervious surface such as a driveway or sidewalk or area completely sodded.	4	10
Vegetation:	Sparse vegetation cover consisting of primarily sea oats (*Panicum repens*), beach grass (*Panicum amarumus*) and other native dune plant species.	Mix of native and introduced vegetation.	Primarily non-native plant species or lacking vegetation.	Lack of vegetation to provide resources and protection for colonization.	7	10

Impact	
Functional Loss = sum of above scores/30	
Functional Loss x acres of impact	

Mitigation	
Functional Gain = sum of mitigation - existing scores/30	**0.3000**
Functional Gain x acres of mitigation	**0.0255**

Critical Habitat Site 23

Site/Project Name: SR 292 Multi-use Path FPID: 438908-2	Application Number:	Assessment Area Name/Number: Site 23
Impact or Mitigation: Impacts = 0.0183 Acres	**Assessment conducted by:** Josey Walker, HDR	**Assessment date:** October 30, 2018

	Optimal (10)	Moderate (7)	Minimal (4)	Insufficient (0)	Existing	Impact/Mitigation
Location and landscape support:	Unobstructed primary, secondary, or shrub dunes with high maximum elevations that provide food resources, protection, and burrow sites.	Primary, secondary, or shrub dunes within close proximity to roads, buildings, or parking areas interrupting continuity on one side of the assessed site.	Primary, secondary, or shrub dunes within close proximity and level to roads, buildings, or parking areas interrupt continuity on both sides of the assessed site.	Uninhabitable level ground within close proximity and level to roads, buildings, or parking areas interrupt continuity on either side of the assessed site.	7	0
Substrate:	Greater than 70% of substrate consisting of natural sand/soils.	30-70% of substrate consisting of natural sand/soils.	<30 % of substrate consisting of natural sands/soils. Site primarily uninhabitable due to compact soils or heavy debris.	Site consists of an impervious surface such as a driveway or sidewalk or area completely sodded.	7	0
Vegetation:	Sparse vegetation cover consisting of primarily sea oats (*Panicum repens*), beach grass (*Panicum amarumus*) and other native dune plant species.	Mix of native and introduced vegetation.	Primarily non-native plant species or lacking vegetation.	Lack of vegetation to provide resources and protection for colonization.	7	0

Impact	
Functional Loss = sum of above scores/30	**0.7000**
Functional Loss x acres of impact	**0.0128**

Mitigation	
Functional Gain = sum of mitigation - existing scores/30	
Functional Gain x acres of mitigation	

Perdido Key Beach Mouse Habitat Assessment

Site/Project Name: SR 292 Multi-use Path FPID: 438908-2	Application Number:	Assessment Area Name/Number: Site 23
Impact or Mitigation: Mitigation = 0.0445 Acres	**Assessment conducted by:** Josey Walker, HDR	**Assessment date:** October 30, 2018

	Optimal (10)	Moderate (7)	Minimal (4)	Insufficient (0)	Existing	Impact/Mitigation
Location and landscape support:	Unobstructed primary, secondary, or shrub dunes with high maximum elevations that provide food resources, protection, and burrow sites.	Primary, secondary, or shrub dunes within close proximity to roads, buildings, or parking areas interrupting continuity on one side of the assessed site.	Primary, secondary, or shrub dunes within close proximity and level to roads, buildings, or parking areas interrupt continuity on both sides of the assessed site.	Uninhabitable level ground within close proximity and level to roads, buildings, or parking areas interrupt continuity on either side of the assessed site.	7	7
Substrate:	Greater than 70% of substrate consisting of natural sand/soils.	30-70% of substrate consisting of natural sand/soils.	<30 % of substrate consisting of natural sands/soils. Site primarily uninhabitable due to compact soils or heavy debris.	Site consists of an impervious surface such as a driveway or sidewalk or area completely sodded.	7	10
Vegetation:	Sparse vegetation cover consisting of primarily sea oats (*Panicum repens*), beach grass (*Panicum amarumus*) and other native dune plant species.	Mix of native and introduced vegetation.	Primarily non-native plant species or lacking vegetation.	Lack of vegetation to provide resources and protection for colonization.	7	10

Impact	
Functional Loss = sum of above scores/30	
Functional Loss x acres of impact	

Mitigation	
Functional Gain = sum of mitigation - existing scores/30	**0.2000**
Functional Gain x acres of mitigation	**0.0089**

Critical Habitat Site 24

Perdido Key Beach Mouse Habitat Assessment

Site/Project Name: SR 292 Multi-use Path FPID: 438908-2	**Application Number:**	**Assessment Area Name/Number:** Site 24
Impact or Mitigation: Impacts = 0.0373 Acres	**Assessment conducted by:** Josey Walker, HDR	**Assessment date:** October 30, 2018

	Optimal (10)	Moderate (7)	Minimal (4)	Insufficient (0)	Existing	Impact/Mitigation
Location and landscape support:	Unobstructed primary, secondary, or shrub dunes with high maximum elevations that provide food resources, protection, and burrow sites.	Primary, secondary, or shrub dunes within close proximity to roads, buildings, or parking areas interrupting continuity on one side of the assessed site.	Primary, secondary, or shrub dunes within close proximity and level to roads, buildings, or parking areas interrupt continuity on both sides of the assessed site.	Uninhabitable level ground within close proximity and level to roads, buildings, or parking areas interrupt continuity on either side of the assessed site.	7	0
Substrate:	Greater than 70% of substrate consisting of natural sand/soils.	30-70% of substrate consisting of natural sand/soils.	<30 % of substrate consisting of natural sands/soils. Site primarily uninhabitable due to compact soils or heavy debris.	Site consists of an impervious surface such as a driveway or sidewalk or area completely sodded.	7	0
Vegetation:	Sparse vegetation cover consisting of primarily sea oats (*Panicum repens*), beach grass (*Panicum amarumus*) and other native dune plant species.	Mix of native and introduced vegetation.	Primarily non-native plant species or lacking vegetation.	Lack of vegetation to provide resources and protection for colonization.	7	0

Impact	
Functional Loss = sum of above scores/30	**0.7000**
Functional Loss x acres of impact	**0.0261**

Mitigation	
Functional Gain = sum of mitigation - existing scores/30	
Functional Gain x acres of mitigation	

Perdido Key Beach Mouse Habitat Assessment

Site/Project Name: SR 292 Multi-use Path FPID: 438908-2	**Application Number:**	**Assessment Area Name/Number:** Site 24
Impact or Mitigation: Mitigation = 0.0883 Acres	**Assessment conducted by:** Josey Walker, HDR	**Assessment date:** October 30, 2018

	Optimal (10)	Moderate (7)	Minimal (4)	Insufficient (0)	Existing	Impact/Mitigation
Location and landscape support:	Unobstructed primary, secondary, or shrub dunes with high maximum elevations that provide food resources, protection, and burrow sites.	Primary, secondary, or shrub dunes within close proximity to roads, buildings, or parking areas interrupting continuity on one side of the assessed site.	Primary, secondary, or shrub dunes within close proximity and level to roads, buildings, or parking areas interrupt continuity on both sides of the assessed site.	Uninhabitable level ground within close proximity and level to roads, buildings, or parking areas interrupt continuity on either side of the assessed site.	7	7
Substrate:	Greater than 70% of substrate consisting of natural sand/soils.	30-70% of substrate consisting of natural sand/soils.	<30 % of substrate consisting of natural sands/soils. Site primarily uninhabitable due to compact soils or heavy debris.	Site consists of an impervious surface such as a driveway or sidewalk or area completely sodded.	7	10
Vegetation:	Sparse vegetation cover consisting of primarily sea oats (*Panicum repens*), beach grass (*Panicum amarumus*) and other native dune plant species.	Mix of native and introduced vegetation.	Primarily non-native plant species or lacking vegetation.	Lack of vegetation to provide resources and protection for colonization.	7	10

Impact	
Functional Loss = sum of above scores/30	
Functional Loss x acres of impact	

Mitigation	
Functional Gain = sum of mitigation - existing scores/30	**0.2000**
Functional Gain x acres of mitigation	**0.0177**

Critical Habitat Site 25

Perdido Key Beach Mouse Habitat Assessment

Site/Project Name: SR 292 Multi-use Path FPID: 438908-2	**Application Number:**	**Assessment Area Name/Number:** Site 25
Impact or Mitigation: Impacts = 0.0945 Acres	**Assessment conducted by:** Josey Walker, HDR	**Assessment date:** October 30, 2018

	Optimal (10)	Moderate (7)	Minimal (4)	Insufficient (0)	Existing	Impact/Mitigation
Location and landscape support:	Unobstructed primary, secondary, or shrub dunes with high maximum elevations that provide food resources, protection, and burrow sites.	Primary, secondary, or shrub dunes within close proximity to roads, buildings, or parking areas interrupting continuity on one side of the assessed site.	Primary, secondary, or shrub dunes within close proximity and level to roads, buildings, or parking areas interrupt continuity on both sides of the assessed site.	Uninhabitable level ground within close proximity and level to roads, buildings, or parking areas interrupt continuity on either side of the assessed site.	7	0
Substrate:	Greater than 70% of substrate consisting of natural sand/soils.	30-70% of substrate consisting of natural sand/soils.	<30 % of substrate consisting of natural sands/soils. Site primarily uninhabitable due to compact soils or heavy debris.	Site consists of an impervious surface such as a driveway or sidewalk or area completely sodded.	7	0
Vegetation:	Sparse vegetation cover consisting of primarily sea oats (*Panicum repens*), beach grass (*Panicum amarumus*) and other native dune plant species.	Mix of native and introduced vegetation.	Primarily non-native plant species or lacking vegetation.	Lack of vegetation to provide resources and protection for colonization.	7	0

Impact	
Functional Loss = sum of above scores/30	**0.7000**
Functional Loss x acres of impact	**0.0662**

Mitigation	
Functional Gain = sum of mitigation - existing scores/30	
Functional Gain x acres of mitigation	

Perdido Key Beach Mouse Habitat Assessment

Site/Project Name: SR 292 Multi-use Path FPID: 438908-2	**Application Number:**	**Assessment Area Name/Number:** Site 25
Impact or Mitigation: Mitigation = 0.2410 Acres	**Assessment conducted by:** Josey Walker, HDR	**Assessment date:** October 30, 2018

	Optimal (10)	Moderate (7)	Minimal (4)	Insufficient (0)	Existing	Impact/Mitigation
Location and landscape support:	Unobstructed primary, secondary, or shrub dunes with high maximum elevations that provide food resources, protection, and burrow sites.	Primary, secondary, or shrub dunes within close proximity to roads, buildings, or parking areas interrupting continuity on one side of the assessed site.	Primary, secondary, or shrub dunes within close proximity and level to roads, buildings, or parking areas interrupt continuity on both sides of the assessed site.	Uninhabitable level ground within close proximity and level to roads, buildings, or parking areas interrupt continuity on either side of the assessed site.	7	7
Substrate:	Greater than 70% of substrate consisting of natural sand/soils.	30-70% of substrate consisting of natural sand/soils.	<30 % of substrate consisting of natural sands/soils. Site primarily uninhabitable due to compact soils or heavy debris.	Site consists of an impervious surface such as a driveway or sidewalk or area completely sodded.	7	10
Vegetation	Sparse vegetation cover consisting of primarily sea oats (*Panicum repens*), beach grass (*Panicum amarumus*) and other native dune plant species.	Mix of native and introduced vegetation.	Primarily non-native plant species or lacking vegetation.	Lack of vegetation to provide resources and protection for colonization.	7	10

Impact	
Functional Loss = sum of above scores/30	
Functional Loss x acres of impact	

Mitigation	
Functional Gain = sum of mitigation - existing scores/30	**0.2000**
Functional Gain x acres of mitigation	**0.0482**

Critical Habitat Site 26

Perdido Key Beach Mouse Habitat Assessment

Site/Project Name: SR 292 Multi-use Path FPID: 438908-2	**Application Number:**	**Assessment Area Name/Number:** Site 26
Impact or Mitigation: Impacts = 0.0410 Acres	**Assessment conducted by:** Josey Walker, HDR	**Assessment date:** October 30, 2018

	Optimal (10)	Moderate (7)	Minimal (4)	Insufficient (0)	Existing	Impact/Mitigation
Location and landscape support:	Unobstructed primary, secondary, or shrub dunes with high maximum elevations that provide food resources, protection, and burrow sites.	Primary, secondary, or shrub dunes within close proximity to roads, buildings, or parking areas interrupting continuity on one side of the assessed site.	Primary, secondary, or shrub dunes within close proximity and level to roads, buildings, or parking areas interrupt continuity on both sides of the assessed site.	Uninhabitable level ground within close proximity and level to roads, buildings, or parking areas interrupt continuity on either side of the assessed site.	7	0
Substrate:	Greater than 70% of substrate consisting of natural sand/soils.	30-70% of substrate consisting of natural sand/soils.	<30 % of substrate consisting of natural sands/soils. Site primarily uninhabitable due to compact soils or heavy debris.	Site consists of an impervious surface such as a driveway or sidewalk or area completely sodded.	7	0
Vegetation	Sparse vegetation cover consisting of primarily sea oats (*Panicum repens*), beach grass (*Panicum amarumus*) and other native dune plant species.	Mix of native and introduced vegetation.	Primarily non-native plant species or lacking vegetation.	Lack of vegetation to provide resources and protection for colonization.	7	0

Impact	
Functional Loss = sum of above scores/30	**0.7000**
Functional Loss x acres of impact	**0.0287**

Mitigation	
Functional Gain = sum of mitigation - existing scores/30	
Functional Gain x acres of mitigation	

Perdido Key Beach Mouse Habitat Assessment

Site/Project Name: SR 292 Multi-use Path FPID: 438908-2	**Application Number:**	**Assessment Area Name/Number:** Site 26
Impact or Mitigation: Mitigation = 0.1057 Acres	**Assessment conducted by:** Josey Walker, HDR	**Assessment date:** October 30, 2018

	Optimal (10)	Moderate (7)	Minimal (4)	Insufficient (0)	Existing	Impact/Mitigation
Location and landscape support:	Unobstructed primary, secondary, or shrub dunes with high maximum elevations that provide food resources, protection, and burrow sites.	Primary, secondary, or shrub dunes within close proximity to roads, buildings, or parking areas interrupting continuity on one side of the assessed site.	Primary, secondary, or shrub dunes within close proximity and level to roads, buildings, or parking areas interrupt continuity on both sides of the assessed site.	Uninhabitable level ground within close proximity and level to roads, buildings, or parking areas interrupt continuity on either side of the assessed site.	7	7
Substrate:	Greater than 70% of substrate consisting of natural sand/soils.	30-70% of substrate consisting of natural sand/soils.	<30 % of substrate consisting of natural sands/soils. Site primarily uninhabitable due to compact soils or heavy debris.	Site consists of an impervious surface such as a driveway or sidewalk or area completely sodded.	7	10
Vegetation	Sparse vegetation cover consisting of primarily sea oats (*Panicum repens*), beach grass (*Panicum amarumus*) and other native dune plant species.	Mix of native and introduced vegetation.	Primarily non-native plant species or lacking vegetation.	Lack of vegetation to provide resources and protection for colonization.	7	10

Impact	
Functional Loss = sum of above scores/30	
Functional Loss x acres of impact	

Mitigation	
Functional Gain = sum of mitigation - existing scores/30	**0.2000**
Functional Gain x acres of mitigation	**0.0211**

Critical Habitat Site 27

Perdido Key Beach Mouse Habitat Assessment

Site/Project Name: SR 292 Multi-use Path FPID: 438908-2	**Application Number:**	**Assessment Area Name/Number:** Site 27
Impact or Mitigation: Impacts = 0.0680 Acres	**Assessment conducted by:** Josey Walker, HDR	**Assessment date:** October 30, 2018

	Optimal (10)	Moderate (7)	Minimal (4)	Insufficient (0)	Existing	Impact/Mitigation
Location and landscape support:	Unobstructed primary, secondary, or shrub dunes with high maximum elevations that provide food resources, protection, and burrow sites.	Primary, secondary, or shrub dunes within close proximity to roads, buildings, or parking areas interrupting continuity on one side of the assessed site.	Primary, secondary, or shrub dunes within close proximity and level to roads, buildings, or parking areas interrupt continuity on both sides of the assessed site.	Uninhabitable level ground within close proximity and level to roads, buildings, or parking areas interrupt continuity on either side of the assessed site.	7	0
Substrate:	Greater than 70% of substrate consisting of natural sand/soils.	30-70% of substrate consisting of natural sand/soils.	<30 % of substrate consisting of natural sands/soils. Site primarily uninhabitable due to compact soils or heavy debris.	Site consists of an impervious surface such as a driveway or sidewalk or area completely sodded.	7	0
Vegetation	Sparse vegetation cover consisting of primarily sea oats (*Panicum repens*), beach grass (*Panicum amarumus*) and other native dune plant species.	Mix of native and introduced vegetation.	Primarily non-native plant species or lacking vegetation.	Lack of vegetation to provide resources and protection for colonization.	7	0

Impact	
Functional Loss = sum of above scores/30	**0.7000**
Functional Loss x acres of impact	**0.0476**

Mitigation	
Functional Gain = sum of mitigation - existing scores/30	
Functional Gain x acres of mitigation	

Perdido Key Beach Mouse Habitat Assessment

Site/Project Name: SR 292 Multi-use Path FPID: 438908-2	**Application Number:**	**Assessment Area Name/Number:** Site 27
Impact or Mitigation: Mitigation = 0.2093 Acres	**Assessment conducted by:** Josey Walker, HDR	**Assessment date:** October 30, 2018

	Optimal (10)	Moderate (7)	Minimal (4)	Insufficient (0)	Existing	Impact/Mitigation
Location and landscape support:	Unobstructed primary, secondary, or shrub dunes with high maximum elevations that provide food resources, protection, and burrow sites.	Primary, secondary, or shrub dunes within close proximity to roads, buildings, or parking areas interrupting continuity on one side of the assessed site.	Primary, secondary, or shrub dunes within close proximity and level to roads, buildings, or parking areas interrupt continuity on both sides of the assessed site.	Uninhabitable level ground within close proximity and level to roads, buildings, or parking areas interrupt continuity on either side of the assessed site.	7	7
Substrate:	Greater than 70% of substrate consisting of natural sand/soils.	30-70% of substrate consisting of natural sand/soils.	<30 % of substrate consisting of natural sands/soils. Site primarily uninhabitable due to compact soils or heavy debris.	Site consists of an impervious surface such as a driveway or sidewalk or area completely sodded.	7	10
Vegetation:	Sparse vegetation cover consisting of primarily sea oats (*Panicum repens*), beach grass (*Panicum amarumus*) and other native dune plant species.	Mix of native and introduced vegetation.	Primarily non-native plant species or lacking vegetation.	Lack of vegetation to provide resources and protection for colonization.	7	10

Impact	
Functional Loss = sum of above scores/30	
Functional Loss x acres of impact	

Mitigation	
Functional Gain = sum of mitigation - existing scores/30	**0.2000**
Functional Gain x acres of mitigation	**0.0419**

Critical Habitat Site 28

Perdido Key Beach Mouse Habitat Assessment

Site/Project Name: SR 292 Multi-use Path FPID: 438908-2	**Application Number:**	**Assessment Area Name/Number:** Site 28
Impact or Mitigation: Impacts = 0.0219 Acres	**Assessment conducted by:** Josey Walker, HDR	**Assessment date:** October 30, 2018

	Optimal (10)	Moderate (7)	Minimal (4)	Insufficient (0)	Existing	Impact/Mitigation
Location and landscape support:	Unobstructed primary, secondary, or shrub dunes with high maximum elevations that provide food resources, protection, and burrow sites.	Primary, secondary, or shrub dunes within close proximity to roads, buildings, or parking areas interrupting continuity on one side of the assessed site.	Primary, secondary, or shrub dunes within close proximity and level to roads, buildings, or parking areas interrupt continuity on both sides of the assessed site.	Uninhabitable level ground within close proximity and level to roads, buildings, or parking areas interrupt continuity on either side of the assessed site.	7	0
Substrate:	Greater than 70% of substrate consisting of natural sand/soils.	30-70% of substrate consisting of natural sand/soils.	<30 % of substrate consisting of natural sands/soils. Site primarily uninhabitable due to compact soils or heavy debris.	Site consists of an impervious surface such as a driveway or sidewalk or area completely sodded.	7	0
Vegetation:	Sparse vegetation cover consisting of primarily sea oats (*Panicum repens*), beach grass (*Panicum amarumus*) and other native dune plant species.	Mix of native and introduced vegetation.	Primarily non-native plant species or lacking vegetation.	Lack of vegetation to provide resources and protection for colonization.	4	0

Impact	
Functional Loss = sum of above scores/30	**0.6000**
Functional Loss x acres of impact	**0.0131**

Mitigation	
Functional Gain = sum of mitigation - existing scores/30	
Functional Gain x acres of mitigation	

Perdido Key Beach Mouse Habitat Assessment

Site/Project Name: SR 292 Multi-use Path FPID: 438908-2	**Application Number:**	**Assessment Area Name/Number:** Site 28
Impact or Mitigation: Mitigation = 0.0487 Acres	**Assessment conducted by:** Josey Walker, HDR	**Assessment date:** October 30, 2018

	Optimal (10)	Moderate (7)	Minimal (4)	Insufficient (0)	Existing	Impact/Mitigation
Location and landscape support:	Unobstructed primary, secondary, or shrub dunes with high maximum elevations that provide food resources, protection, and burrow sites.	Primary, secondary, or shrub dunes within close proximity to roads, buildings, or parking areas interrupting continuity on one side of the assessed site.	Primary, secondary, or shrub dunes within close proximity and level to roads, buildings, or parking areas interrupt continuity on both sides of the assessed site.	Uninhabitable level ground within close proximity and level to roads, buildings, or parking areas interrupt continuity on either side of the assessed site.	7	7
Substrate:	Greater than 70% of substrate consisting of natural sand/soils.	30-70% of substrate consisting of natural sand/soils.	<30 % of substrate consisting of natural sands/soils. Site primarily uninhabitable due to compact soils or heavy debris.	Site consists of an impervious surface such as a driveway or sidewalk or area completely sodded.	7	10
Vegetation	Sparse vegetation cover consisting of primarily sea oats (*Panicum repens*), beach grass (*Panicum amarumus*) and other native dune plant species.	Mix of native and introduced vegetation.	Primarily non-native plant species or lacking vegetation.	Lack of vegetation to provide resources and protection for colonization.	4	10

Impact	
Functional Loss = sum of above scores/30	
Functional Loss x acres of impact	

Mitigation	
Functional Gain = sum of mitigation - existing scores/30	**0.3000**
Functional Gain x acres of mitigation	**0.0146**

Critical Habitat Site 29

Perdido Key Beach Mouse Habitat Assessment

Site/Project Name: SR 292 Multi-use Path FPID: 438908-2	**Application Number:**	**Assessment Area Name/Number:** Site 29
Impact or Mitigation: Impacts = 0.0372 Acres	**Assessment conducted by:** Josey Walker, HDR	**Assessment date:** October 30, 2018

	Optimal (10)	Moderate (7)	Minimal (4)	Insufficient (0)	Existing	Impact/Mitigation
Location and landscape support:	Unobstructed primary, secondary, or shrub dunes with high maximum elevations that provide food resources, protection, and burrow sites.	Primary, secondary, or shrub dunes within close proximity to roads, buildings, or parking areas interrupting continuity on one side of the assessed site.	Primary, secondary, or shrub dunes within close proximity and level to roads, buildings, or parking areas interrupt continuity on both sides of the assessed site.	Uninhabitable level ground within close proximity and level to roads, buildings, or parking areas interrupt continuity on either side of the assessed site.	7	0
Substrate:	Greater than 70% of substrate consisting of natural sand/soils.	30-70% of substrate consisting of natural sand/soils.	<30 % of substrate consisting of natural sands/soils. Site primarily uninhabitable due to compact soils or heavy debris.	Site consists of an impervious surface such as a driveway or sidewalk or area completely sodded.	7	0
Vegetation:	Sparse vegetation cover consisting of primarily sea oats (*Panicum repens*), beach grass (*Panicum amarumus*) and other native dune plant species.	Mix of native and introduced vegetation.	Primarily non-native plant species or lacking vegetation.	Lack of vegetation to provide resources and protection for colonization.	7	0

Impact	
Functional Loss = sum of above scores/30	**0.7000**
Functional Loss x acres of impact	**0.0260**

Mitigation	
Functional Gain = sum of mitigation - existing scores/30	
Functional Gain x acres of mitigation	

Perdido Key Beach Mouse Habitat Assessment

Site/Project Name: SR 292 Multi-use Path FPID: 438908-2	**Application Number:**	**Assessment Area Name/Number:** Site 29
Impact or Mitigation: Mitigation = 0.0902 Acres	**Assessment conducted by:** Josey Walker, HDR	**Assessment date:** October 30, 2018

	Optimal (10)	Moderate (7)	Minimal (4)	Insufficient (0)	Existing	Impact/Mitigation
Location and landscape support:	Unobstructed primary, secondary, or shrub dunes with high maximum elevations that provide food resources, protection, and burrow sites.	Primary, secondary, or shrub dunes within close proximity to roads, buildings, or parking areas interrupting continuity on one side of the assessed site.	Primary, secondary, or shrub dunes within close proximity and level to roads, buildings, or parking areas interrupt continuity on both sides of the assessed site.	Uninhabitable level ground within close proximity and level to roads, buildings, or parking areas interrupt continuity on either side of the assessed site.	7	7
Substrate:	Greater than 70% of substrate consisting of natural sand/soils.	30-70% of substrate consisting of natural sand/soils.	<30 % of substrate consisting of natural sands/soils. Site primarily uninhabitable due to compact soils or heavy debris.	Site consists of an impervious surface such as a driveway or sidewalk or area completely sodded.	7	10
Vegetation:	Sparse vegetation cover consisting of primarily sea oats (*Panicum repens*), beach grass (*Panicum amarumus*) and other native dune plant species.	Mix of native and introduced vegetation.	Primarily non-native plant species or lacking vegetation.	Lack of vegetation to provide resources and protection for colonization.	7	10

Impact	
Functional Loss = sum of above scores/30	
Functional Loss x acres of impact	

Mitigation	
Functional Gain = sum of mitigation - existing scores/30	**0.2000**
Functional Gain x acres of mitigation	**0.0180**

Critical Habitat Site 30

Perdido Key Beach Mouse Habitat Assessment

Site/Project Name: SR 292 Multi-use Path FPID: 438908-2	**Application Number:**	**Assessment Area Name/Number:** Site 30
Impact or Mitigation: Impacts = 0.0287 Acres	**Assessment conducted by:** Josey Walker, HDR	**Assessment date:** October 30, 2018

	Optimal (10)	Moderate (7)	Minimal (4)	Insufficient (0)	Existing	Impact/Mitigation
Location and landscape support:	Unobstructed primary, secondary, or shrub dunes with high maximum elevations that provide food resources, protection, and burrow sites.	Primary, secondary, or shrub dunes within close proximity to roads, buildings, or parking areas interrupting continuity on one side of the assessed site.	Primary, secondary, or shrub dunes within close proximity and level to roads, buildings, or parking areas interrupt continuity on both sides of the assessed site.	Uninhabitable level ground within close proximity and level to roads, buildings, or parking areas interrupt continuity on either side of the assessed site.	7	0
Substrate:	Greater than 70% of substrate consisting of natural sand/soils.	30-70% of substrate consisting of natural sand/soils.	<30 % of substrate consisting of natural sands/soils. Site primarily uninhabitable due to compact soils or heavy debris.	Site consists of an impervious surface such as a driveway or sidewalk or area completely sodded.	7	0
Vegetation:	Sparse vegetation cover consisting of primarily sea oats (*Panicum repens*), beach grass (*Panicum amarumus*) and other native dune plant species.	Mix of native and introduced vegetation.	Primarily non-native plant species or lacking vegetation.	Lack of vegetation to provide resources and protection for colonization.	7	0

Impact	
Functional Loss = sum of above scores/30	**0.7000**
Functional Loss x acres of impact	**0.0201**

Mitigation	
Functional Gain = sum of mitigation - existing scores/30	
Functional Gain x acres of mitigation	

Perdido Key Beach Mouse Habitat Assessment

Site/Project Name: SR 292 Multi-use Path FPID: 438908-2	**Application Number:**	**Assessment Area Name/Number:** Site 30
Impact or Mitigation: Mitigation = 0.0672 Acres	**Assessment conducted by:** Josey Walker, HDR	**Assessment date:** October 30, 2018

	Optimal (10)	Moderate (7)	Minimal (4)	Insufficient (0)	Existing	Impact/Mitigation
Location and landscape support:	Unobstructed primary, secondary, or shrub dunes with high maximum elevations that provide food resources, protection, and burrow sites.	Primary, secondary, or shrub dunes within close proximity to roads, buildings, or parking areas interrupting continuity on one side of the assessed site.	Primary, secondary, or shrub dunes within close proximity and level to roads, buildings, or parking areas interrupt continuity on both sides of the assessed site.	Uninhabitable level ground within close proximity and level to roads, buildings, or parking areas interrupt continuity on either side of the assessed site.	7	7
Substrate:	Greater than 70% of substrate consisting of natural sand/soils.	30-70% of substrate consisting of natural sand/soils.	<30 % of substrate consisting of natural sands/soils. Site primarily uninhabitable due to compact soils or heavy debris.	Site consists of an impervious surface such as a driveway or sidewalk or area completely sodded.	7	10
Vegetation:	Sparse vegetation cover consisting of primarily sea oats (*Panicum repens*), beach grass (*Panicum amarumus*) and other native dune plant species.	Mix of native and introduced vegetation.	Primarily non-native plant species or lacking vegetation.	Lack of vegetation to provide resources and protection for colonization.	7	10

Impact	
Functional Loss = sum of above scores/30	
Functional Loss x acres of impact	

Mitigation	
Functional Gain = sum of mitigation - existing scores/30	**0.2000**
Functional Gain x acres of mitigation	**0.0134**

Critical Habitat Site 31

Perdido Key Beach Mouse Habitat Assessment

Site/Project Name: SR 292 Multi-use Path FPID: 438908-2	**Application Number:**	**Assessment Area Name/Number:** Site 31
Impact or Mitigation: Impacts = 0.0143 Acres	**Assessment conducted by:** Josey Walker, HDR	**Assessment date:** October 30, 2018

	Optimal (10)	Moderate (7)	Minimal (4)	Insufficient (0)	Existing	Impact/Mitigation
Location and landscape support:	Unobstructed primary, secondary, or shrub dunes with high maximum elevations that provide food resources, protection, and burrow sites.	Primary, secondary, or shrub dunes within close proximity to roads, buildings, or parking areas interrupting continuity on one side of the assessed site.	Primary, secondary, or shrub dunes within close proximity and level to roads, buildings, or parking areas interrupt continuity on both sides of the assessed site.	Uninhabitable level ground within close proximity and level to roads, buildings, or parking areas interrupt continuity on either side of the assessed site.	7	0
Substrate:	Greater than 70% of substrate consisting of natural sand/soils.	30-70% of substrate consisting of natural sand/soils.	<30 % of substrate consisting of natural sands/soils. Site primarily uninhabitable due to compact soils or heavy debris.	Site consists of an impervious surface such as a driveway or sidewalk or area completely sodded.	7	0
Vegetation:	Sparse vegetation cover consisting of primarily sea oats (*Panicum repens*), beach grass (*Panicum amarumus*) and other native dune plant species.	Mix of native and introduced vegetation.	Primarily non-native plant species or lacking vegetation.	Lack of vegetation to provide resources and protection for colonization.	7	0

Impact	
Functional Loss = sum of above scores/30	**0.7000**
Functional Loss x acres of impact	**0.0100**

Mitigation	
Functional Gain = sum of mitigation - existing scores/30	
Functional Gain x acres of mitigation	

Perdido Key Beach Mouse Habitat Assessment

Site/Project Name: SR 292 Multi-use Path FPID: 438908-2	**Application Number:**	**Assessment Area Name/Number:** Site 31
Impact or Mitigation: Mitigation = 0.0311 Acres	**Assessment conducted by:** Josey Walker, HDR	**Assessment date:** October 30, 2018

	Optimal (10)	Moderate (7)	Minimal (4)	Insufficient (0)	Existing	Impact/Mitigation
Location and landscape support:	Unobstructed primary, secondary, or shrub dunes with high maximum elevations that provide food resources, protection, and burrow sites.	Primary, secondary, or shrub dunes within close proximity to roads, buildings, or parking areas interrupting continuity on one side of the assessed site.	Primary, secondary, or shrub dunes within close proximity and level to roads, buildings, or parking areas interrupt continuity on both sides of the assessed site.	Uninhabitable level ground within close proximity and level to roads, buildings, or parking areas interrupt continuity on either side of the assessed site.	7	7
Substrate:	Greater than 70% of substrate consisting of natural sand/soils.	30-70% of substrate consisting of natural sand/soils.	<30 % of substrate consisting of natural sands/soils. Site primarily uninhabitable due to compact soils or heavy debris.	Site consists of an impervious surface such as a driveway or sidewalk or area completely sodded.	7	10
Vegetation:	Sparse vegetation cover consisting of primarily sea oats (*Panicum repens*), beach grass (*Panicum amarumus*) and other native dune plant species.	Mix of native and introduced vegetation.	Primarily non-native plant species or lacking vegetation.	Lack of vegetation to provide resources and protection for colonization.	7	10

Impact	
Functional Loss = sum of above scores/30	
Functional Loss x acres of impact	

Mitigation	
Functional Gain = sum of mitigation - existing scores/30	**0.2000**
Functional Gain x acres of mitigation	**0.0062**

Critical Habitat Site 32

Perdido Key Beach Mouse Habitat Assessment

Site/Project Name: SR 292 Multi-use Path FPID: 438908-2	**Application Number:**	**Assessment Area Name/Number:** Site 32
Impact or Mitigation: Impacts = 0.0279 Acres	**Assessment conducted by:** Josey Walker, HDR	**Assessment date:** October 30, 2018

	Optimal (10)	Moderate (7)	Minimal (4)	Insufficient (0)	Existing	Impact/Mitigation
Location and landscape support:	Unobstructed primary, secondary, or shrub dunes with high maximum elevations that provide food resources, protection, and burrow sites.	Primary, secondary, or shrub dunes within close proximity to roads, buildings, or parking areas interrupting continuity on one side of the assessed site.	Primary, secondary, or shrub dunes within close proximity and level to roads, buildings, or parking areas interrupt continuity on both sides of the assessed site.	Uninhabitable level ground within close proximity and level to roads, buildings, or parking areas interrupt continuity on either side of the assessed site.	7	0
Substrate:	Greater than 70% of substrate consisting of natural sand/soils.	30-70% of substrate consisting of natural sand/soils.	<30 % of substrate consisting of natural sands/soils. Site primarily uninhabitable due to compact soils or heavy debris.	Site consists of an impervious surface such as a driveway or sidewalk or area completely sodded.	7	0
Vegetation:	Sparse vegetation cover consisting of primarily sea oats (*Panicum repens*), beach grass (*Panicum amarumus*) and other native dune plant species.	Mix of native and introduced vegetation.	Primarily non-native plant species or lacking vegetation.	Lack of vegetation to provide resources and protection for colonization.	7	0

Impact	
Functional Loss = sum of above scores/30	**0.7000**
Functional Loss x acres of impact	**0.0195**

Mitigation	
Functional Gain = sum of mitigation - existing scores/30	
Functional Gain x acres of mitigation	

Perdido Key Beach Mouse Habitat Assessment

Site/Project Name: SR 292 Multi-use Path FPID: 438908-2	**Application Number:**	**Assessment Area Name/Number:** Site 32
Impact or Mitigation: Mitigation = 0.0450 Acres	**Assessment conducted by:** Josey Walker, HDR	**Assessment date:** October 30, 2018

	Optimal (10)	Moderate (7)	Minimal (4)	Insufficient (0)	Existing	Impact/Mitigation
Location and landscape support:	Unobstructed primary, secondary, or shrub dunes with high maximum elevations that provide food resources, protection, and burrow sites.	Primary, secondary, or shrub dunes within close proximity to roads, buildings, or parking areas interrupting continuity on one side of the assessed site.	Primary, secondary, or shrub dunes within close proximity and level to roads, buildings, or parking areas interrupt continuity on both sides of the assessed site.	Uninhabitable level ground within close proximity and level to roads, buildings, or parking areas interrupt continuity on either side of the assessed site.	7	7
Substrate:	Greater than 70% of substrate consisting of natural sand/soils.	30-70% of substrate consisting of natural sand/soils.	<30 % of substrate consisting of natural sands/soils. Site primarily uninhabitable due to compact soils or heavy debris.	Site consists of an impervious surface such as a driveway or sidewalk or area completely sodded.	7	10
Vegetation:	Sparse vegetation cover consisting of primarily sea oats (*Panicum repens*), beach grass (*Panicum amarumus*) and other native dune plant species.	Mix of native and introduced vegetation.	Primarily non-native plant species or lacking vegetation.	Lack of vegetation to provide resources and protection for colonization.	7	10

Impact	
Functional Loss = sum of above scores/30	
Functional Loss x acres of impact	

Mitigation	
Functional Gain = sum of mitigation - existing scores/30	**0.2000**
Functional Gain x acres of mitigation	**0.0090**

Mitigation Only Site

Perdido Key Beach Mouse Habitat Assessment

Site/Project Name: SR 292 Multi-use Path FPID: 438908-2	**Application Number:**	**Assessment Area Name/Number:** Mitigation Only Site
Impact or Mitigation: Impacts = 0.1488 Acres	**Assessment conducted by:** Josey Walker, HDR	**Assessment date:** January 16, 2019

	Optimal (10)	Moderate (7)	Minimal (4)	Insufficient (0)	Existing	Impact/Mitigation
Location and landscape support:	Unobstructed primary, secondary, or shrub dunes with high maximum elevations that provide food resources, protection, and burrow sites.	Primary, secondary, or shrub dunes within close proximity to roads, buildings, or parking areas interrupting continuity on one side of the assessed site.	Primary, secondary, or shrub dunes within close proximity and level to roads, buildings, or parking areas interrupt continuity on both sides of the assessed site.	Uninhabitable level ground within close proximity and level to roads, buildings, or parking areas interrupt continuity on either side of the assessed site.	7	7
Substrate:	Greater than 70% of substrate consisting of natural sand/soils.	30-70% of substrate consisting of natural sand/soils.	<30 % of substrate consisting of natural sands/soils. Site primarily uninhabitable due to compact soils or heavy debris.	Site consists of an impervious surface such as a driveway or sidewalk or area completely sodded.	4	10
Vegetation:	Sparse vegetation cover consisting of primarily sea oats (*Panicum repens*), beach grass (*Panicum amarumus*) and other native dune plant species.	Mix of native and introduced vegetation.	Primarily non-native plant species or lacking vegetation.	Lack of vegetation to provide resources and protection for colonization.	4	10

Impact	
Functional Loss = sum of above scores/30	
Functional Loss x acres of impact	

Mitigation	
Functional Gain = sum of mitigation - existing scores/30	**0.4000**
Functional Gain x acres of mitigation	**0.0595**

PERDIDO KEY BEACH MOUSE HABITAT ASSESSMENT SUMMARY		
SITE NUMBER	**FUNCTIONAL LOSS**	**FUNCTIONAL GAIN**
Site 1 (Impacts)	0.0022	
Site 1 (Mitigation)		0.0020
Site 2 (Impacts)	0.0003	
Site 2 (Mitigation)		0.0012
Site 3 (Impacts)	0.0024	
Site 3 (Mitigation)		0.0010
Site 4 (Impacts)	0.0031	
Site 4 (Mitigation)		0.0047
Site 5 (Impacts)	0.0057	
Site 5 (Mitigation)		0.0037
Site 6 (Impacts)	0.0006	
Site 6 (Mitigation)		0.0019
Site 7 (Impacts)	0.0350	
Site 7 (Mitigation)		0.0281
Site 8 (Impacts)	0.0065	
Site 8 (Mitigation)		0.0146
Site 9 (Impacts)	0.0065	
Site 9 (Mitigation)		0.0192
Site 10 (Impacts)	0.0068	
Site 10 (Mitigation)		0.0104

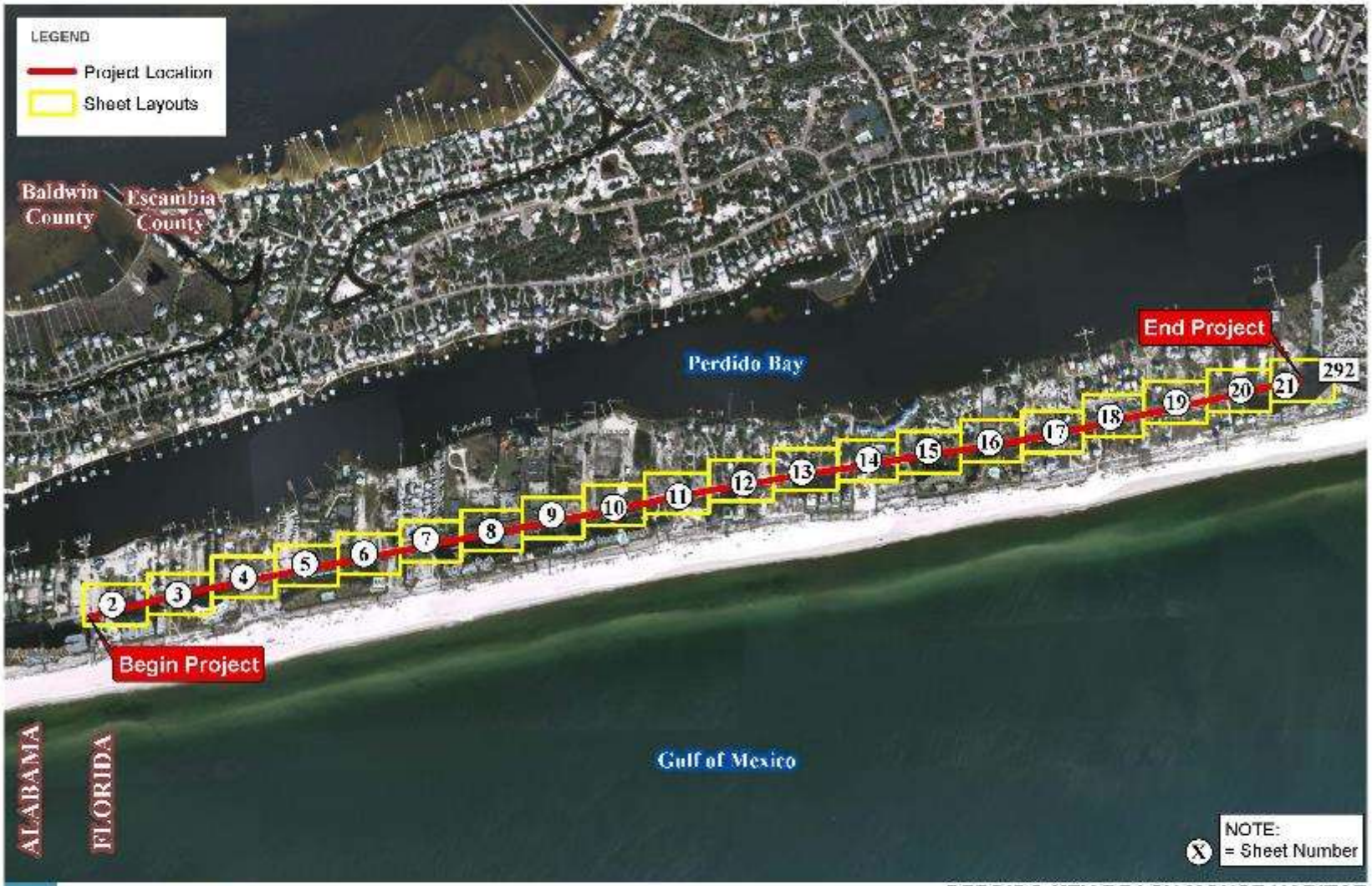
PERDIDO KEY BEACH MOUSE HABITAT ASSESSMENT SUMMARY		
SITE NUMBER	**FUNCTIONAL LOSS**	**FUNCTIONAL GAIN**
Site 11 (Impacts)	0.0211	
Site 11 (Mitigation)		0.0143
Site 12 (Impacts)	0.0128	
Site 12 (Mitigation)		0.0120
Site 13 (Impacts)	0.0126	
Site 13 (Mitigation)		0.0000
Site 14 (Impacts)	0.0059	
Site 14 (Mitigation)		0.0141
Site 15 (Impacts)	0.0061	
Site 15 (Mitigation)		0.0201
Site 16 (Impacts)	0.0536	
Site 16 (Mitigation)		0.0364
Site 17 (Impacts)	0.0009	
Site 17 (Mitigation)		0.0017
Site 18 (Impacts)	0.0022	
Site 18 (Mitigation)		0.0070
Site 19 (Impacts)	0.0026	
Site 19 (Mitigation)		0.0056
Site 20 (Impacts)	0.0066	
Site 20 (Mitigation)		0.0099

PERDIDO KEY BEACH MOUSE HABITAT ASSESSMENT SUMMARY		
SITE NUMBER	**FUNCTIONAL LOSS**	**FUNCTIONAL GAIN**
Site 21 (Impacts)	0.0008	
Site 21 (Mitigation)		0.0065
Site 22 (Impacts)	0.0220	
Site 22 (Mitigation)		0.0255
Site 23 (Impacts)	0.0128	
Site 23 (Mitigation)		0.0089
Site 24 (Impacts)	0.0261	
Site 24 (Mitigation)		0.0177
Site 25 (Impacts)	0.0662	
Site 25 (Mitigation)		0.0482
Site 26 (Impacts)	0.0287	
Site 26 (Mitigation)		0.0211
Site 27 (Impacts)	0.0476	
Site 27 (Mitigation)		0.0419
Site 28 (Impacts)	0.0131	
Site 28 (Mitigation)		0.0146
Site 29 (Impacts)	0.0260	
Site 29 (Mitigation)		0.0180
Site 30 (Impacts)	0.0201	
Site 30 (Mitigation)		0.0134

PERDIDO KEY BEACH MOUSE HABITAT ASSESSMENT SUMMARY		
SITE NUMBER	**FUNCTIONAL LOSS**	**FUNCTIONAL GAIN**
Site 31 (Impacts)	0.0100	
Site 31 (Mitigation)		0.0062
Site 32 (Impacts)	0.0195	
Site 32 (Mitigation)		0.0090
Mitigation Only Site		0.0595
Totals	**0.4864**	**0.4984**

Appendix A

Detailed Project Impact and Enhancement/Restoration Maps



FDOT

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PERDIDO KEY BEACH MOUSE HABITAT
SR 292 (PERDIDO KEY DRIVE)
FROM ALABAMA STATE LINE TO WEST STATE PARK BOUNDARY
SHEET 1 OF 21 FPID: 438908-2

FDOT

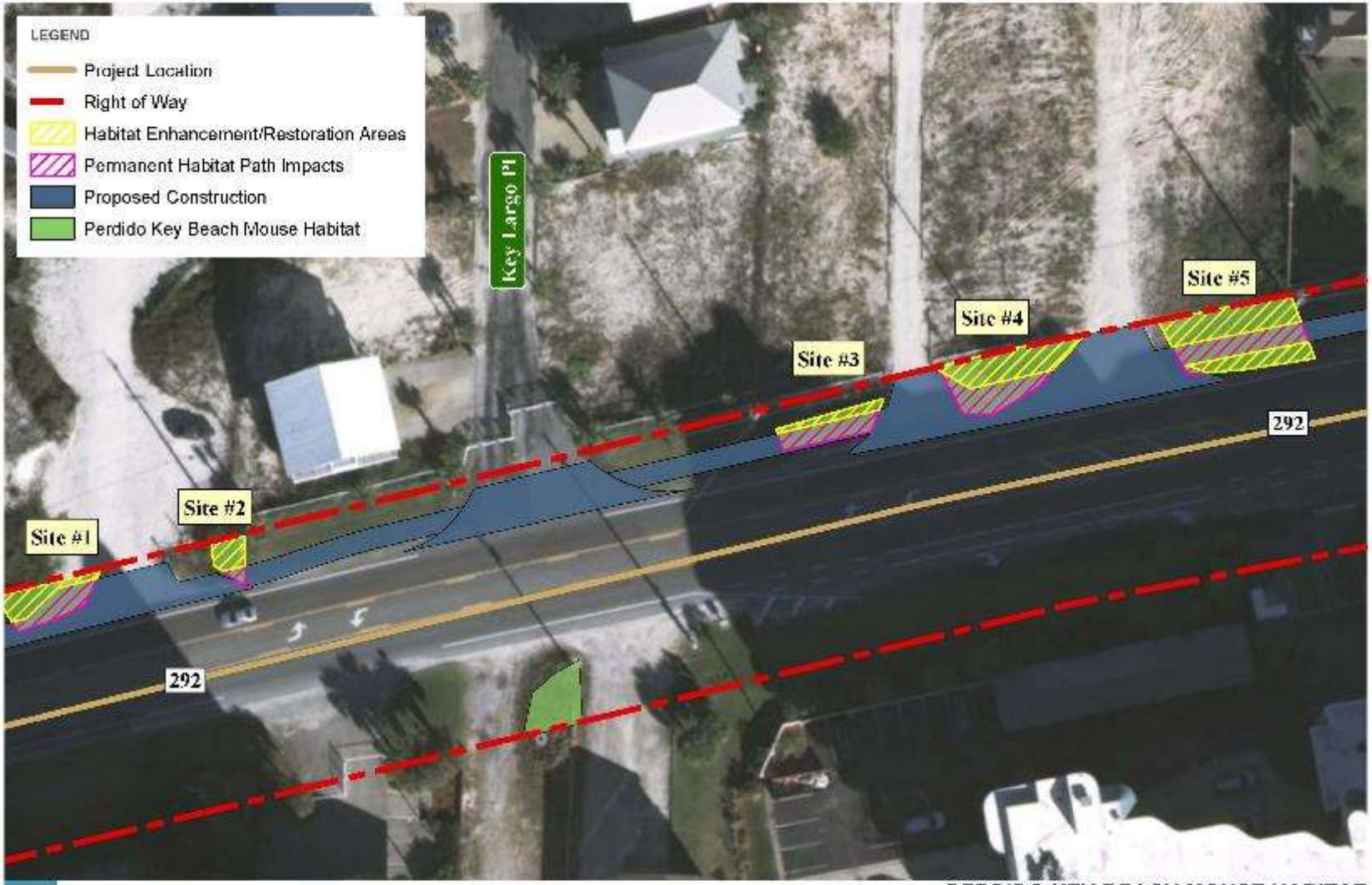
0 Feet 50

PERDIDO KEY BEACH MOUSE HABITAT

SR 292 (PERDIDO KEY DRIVE)

FROM ALABAMA STATE LINE TO WEST STATE PARK BOUNDARY

SHEET 2 OF 21 FPID: 439908-2



FDOT

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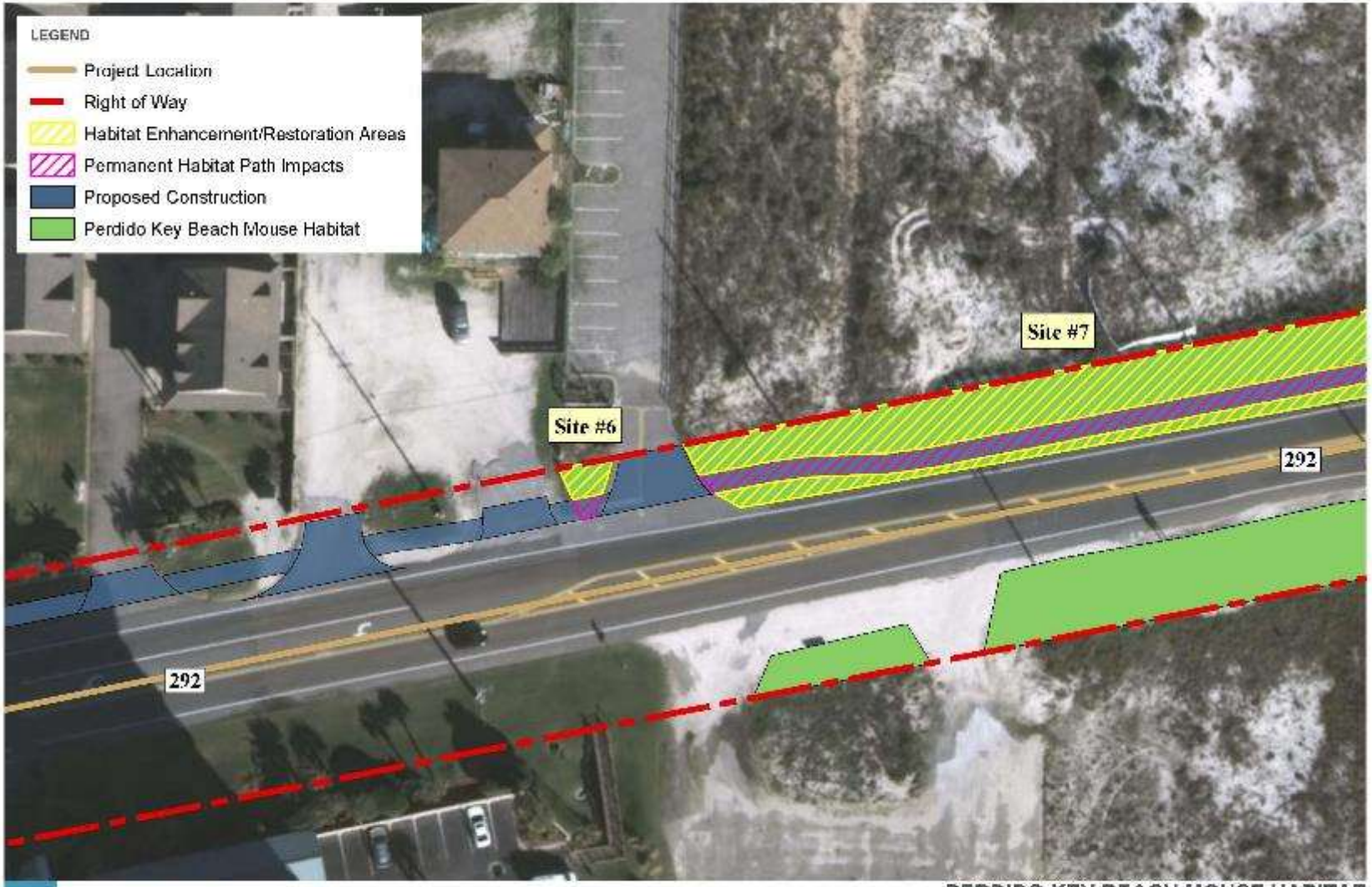
PERDIDO KEY BEACH MOUSE HABITAT
SR 292 (PERDIDO KEY DRIVE)
FROM ALABAMA STATE LINE TO WEST STATE PARK BOUNDARY
SHEET 3 OF 21 FPID: 438908-2



FDOT

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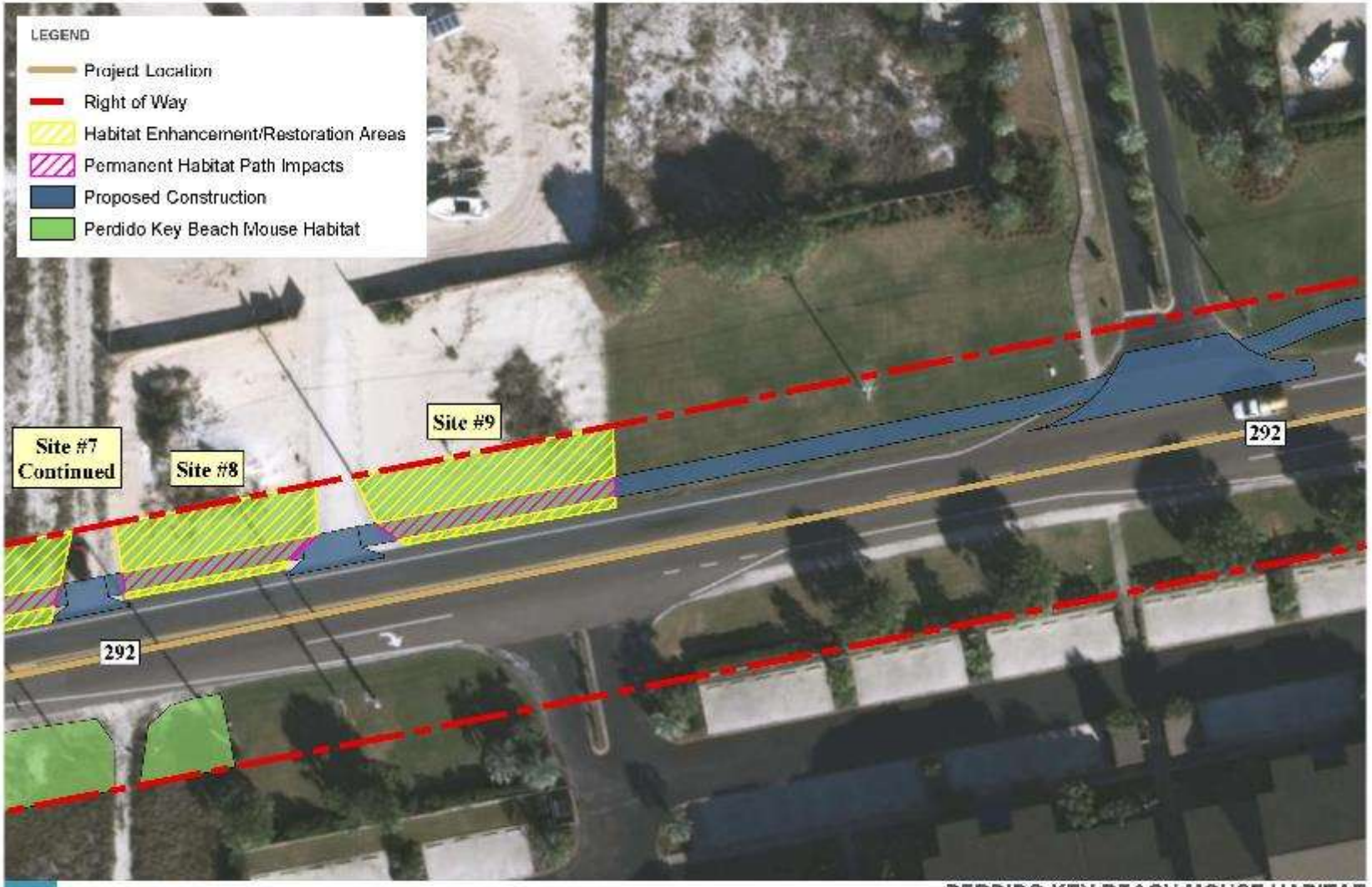
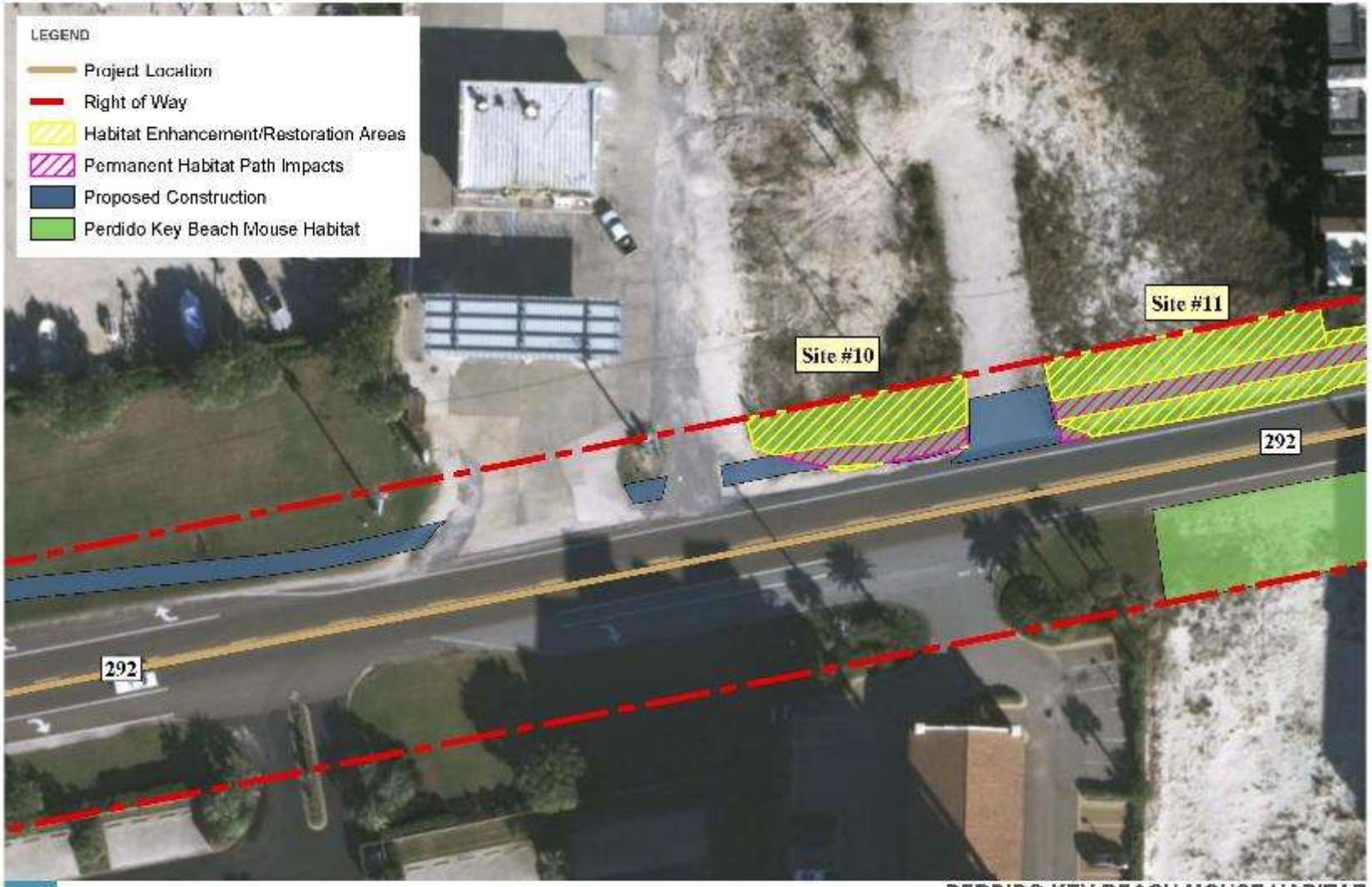
PERDIDO KEY BEACH MOUSE HABITAT
SR 292 (PERDIDO KEY DRIVE)
FROM ALABAMA STATE LINE TO WEST STATE PARK BOUNDARY
SHEET 4 OF 21 FPID: 439908-2



FDOT

0 Feet 50

PERDIDO KEY BEACH MOUSE HABITAT
SR 292 (PERDIDO KEY DRIVE)
FROM ALABAMA STATE LINE TO WEST STATE PARK BOUNDARY
SHEET 5 OF 21 FPID: 439908-2



FDOT

0 Feet 50

PERDIDO KEY BEACH MOUSE HABITAT

SR 292 (PERDIDO KEY DRIVE)

FROM ALABAMA STATE LINE TO WEST STATE PARK BOUNDARY

SHEET 6 OF 21 FPID: 438908-2

FDOT

0 Feet 50

PERDIDO KEY BEACH MOUSE HABITAT

SR 292 (PERDIDO KEY DRIVE)

FROM ALABAMA STATE LINE TO WEST STATE PARK BOUNDARY

SHEET 7 OF 21 FPID: 439908-2

FDOT

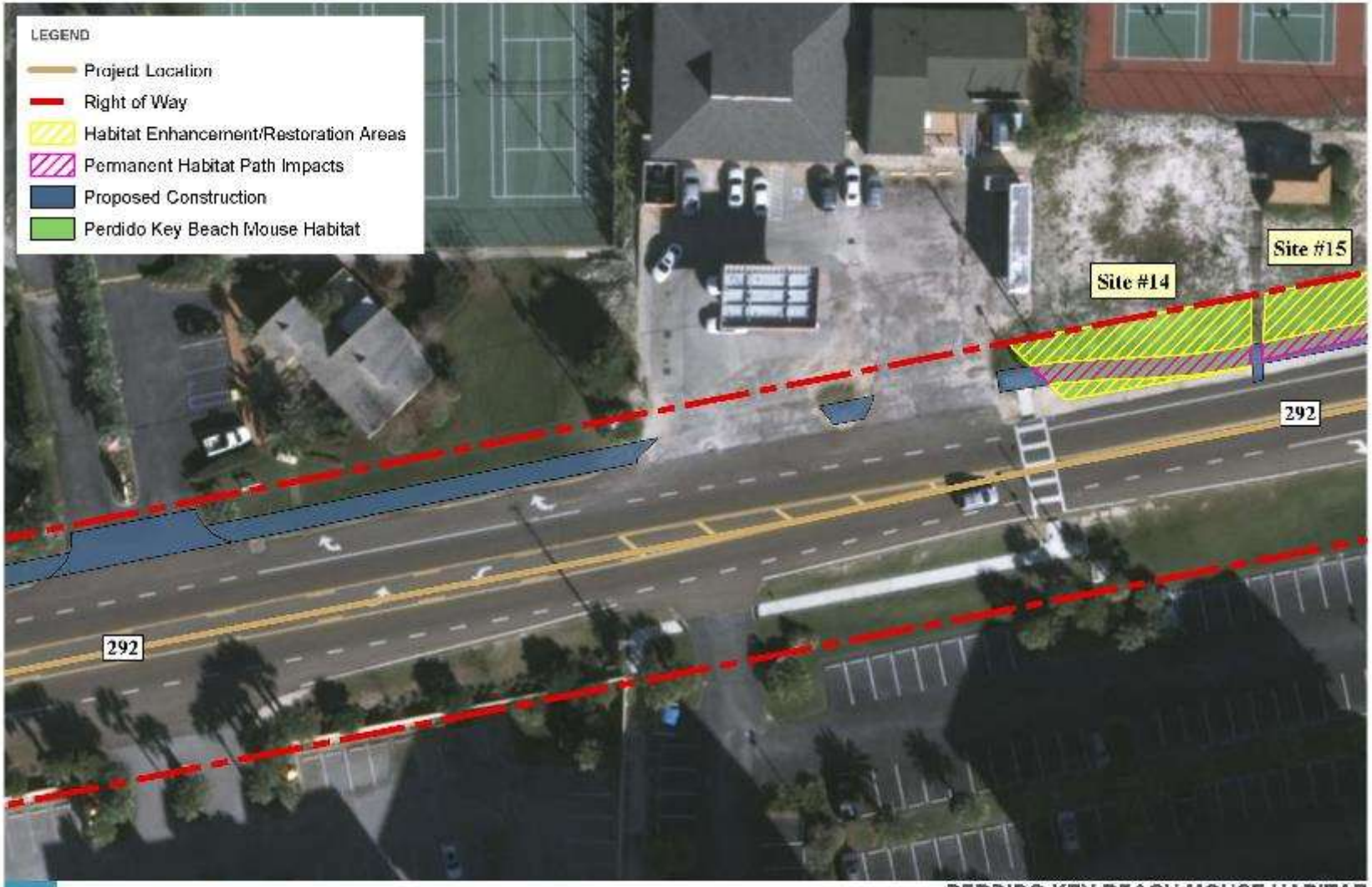
0 Feet 50

PERDIDO KEY BEACH MOUSE HABITAT

SR 292 (PERDIDO KEY DRIVE)

FROM ALABAMA STATE LINE TO WEST STATE PARK BOUNDARY

SHEET 8 OF 21 FPID: 439908-2



FDOT

0 Feet 50

PERDIDO KEY BEACH MOUSE HABITAT
SR 292 (PERDIDO KEY DRIVE)
FROM ALABAMA STATE LINE TO WEST STATE PARK BOUNDARY
SHEET 9 OF 21 FPID: 438908-2

FDOT

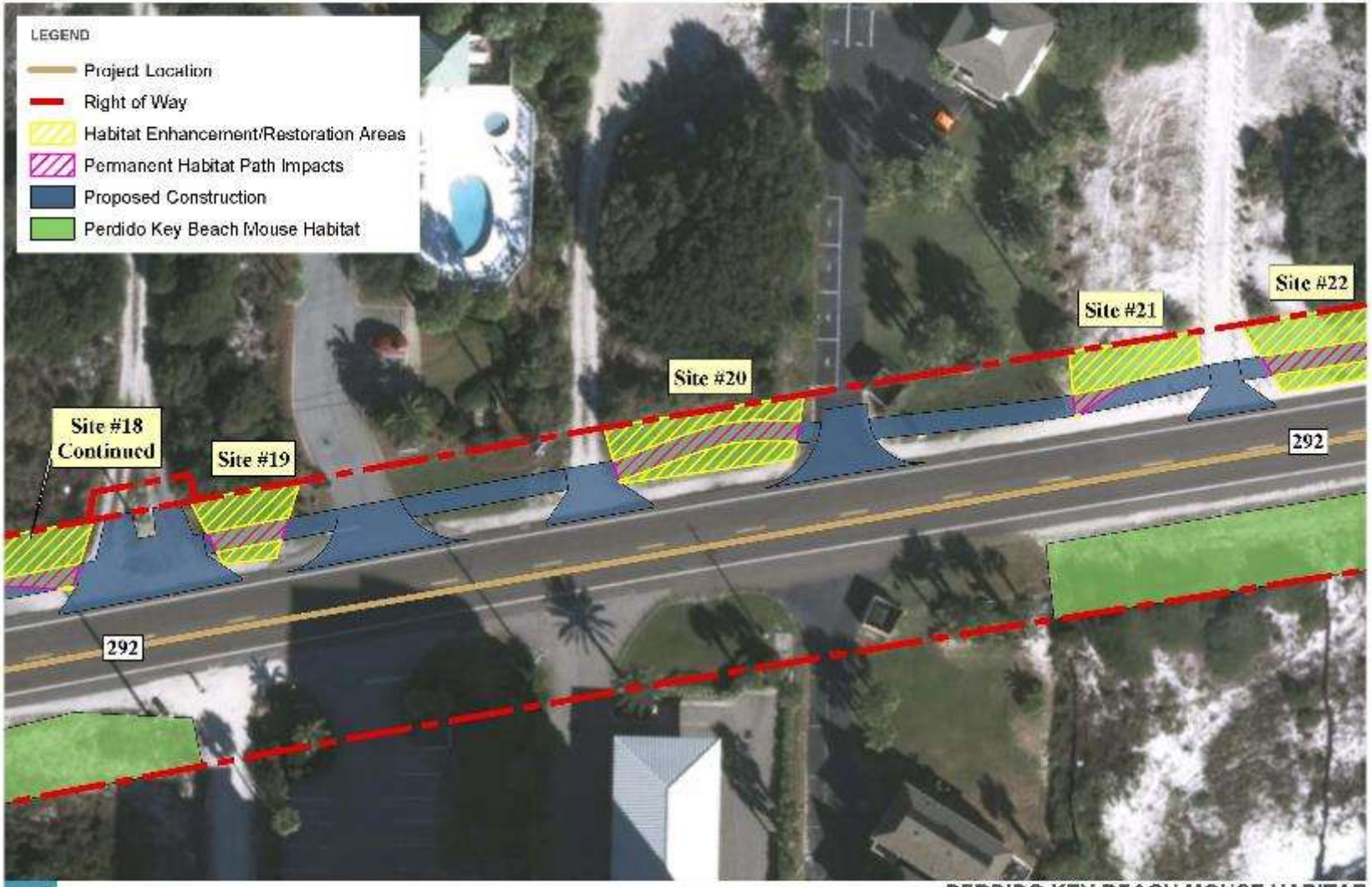
0 Feet 50

PERDIDO KEY BEACH MOUSE HABITAT
SR 292 (PERDIDO KEY DRIVE)
FROM ALABAMA STATE LINE TO WEST STATE PARK BOUNDARY
SHEET 10 OF 21 FPID: 439908-2

FDOT

0 Feet 50

PERDIDO KEY BEACH MOUSE HABITAT
SR 292 (PERDIDO KEY DRIVE)
FROM ALABAMA STATE LINE TO WEST STATE PARK BOUNDARY
SHEET 11 OF 21 FPID: 439908-2



FDOT

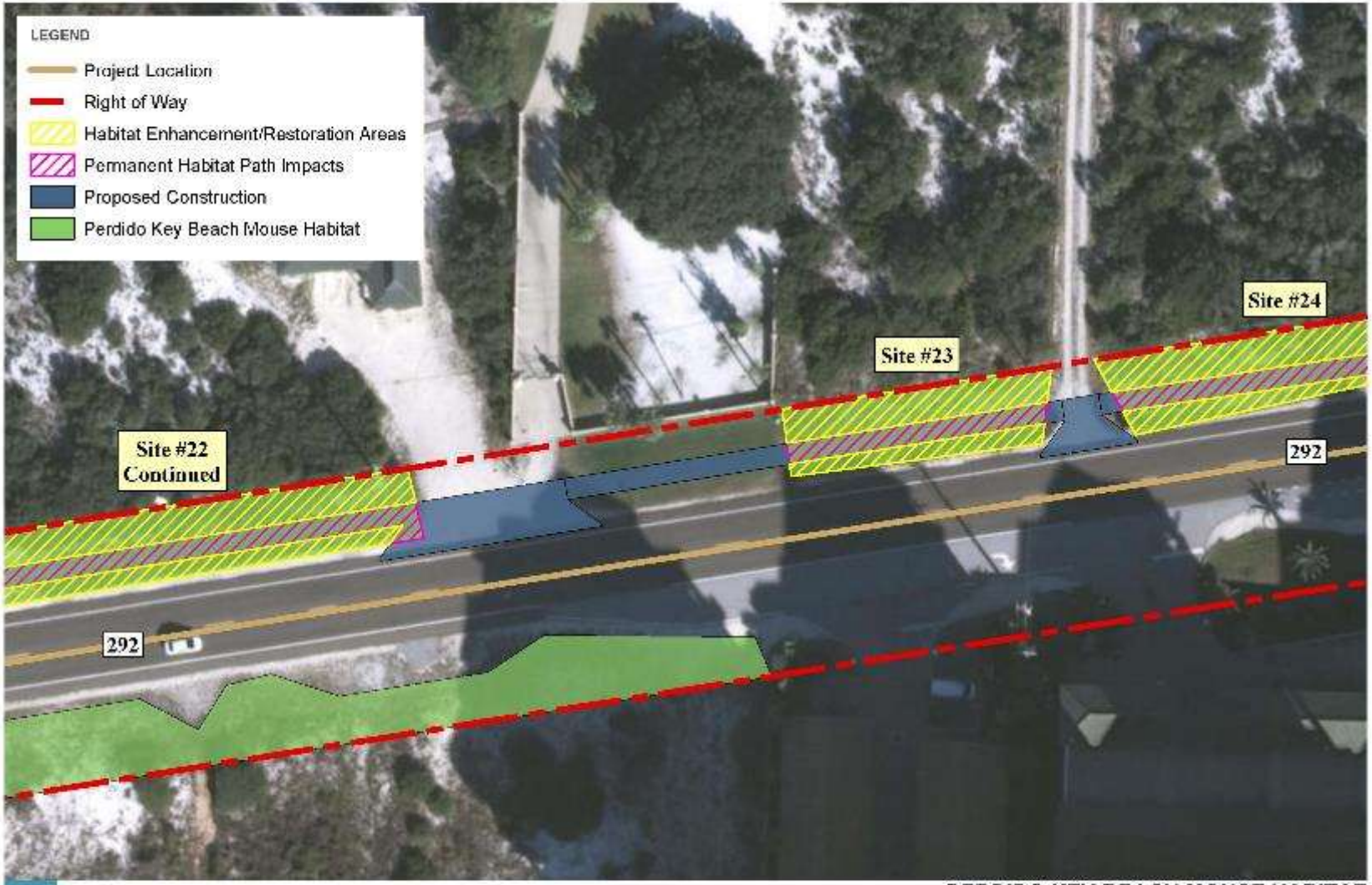
0 Feet 50

PERDIDO KEY BEACH MOUSE HABITAT

SR 292 (PERDIDO KEY DRIVE)

FROM ALABAMA STATE LINE TO WEST STATE PARK BOUNDARY

SHEET 12 OF 21 FPID: 438908-2



FDOT

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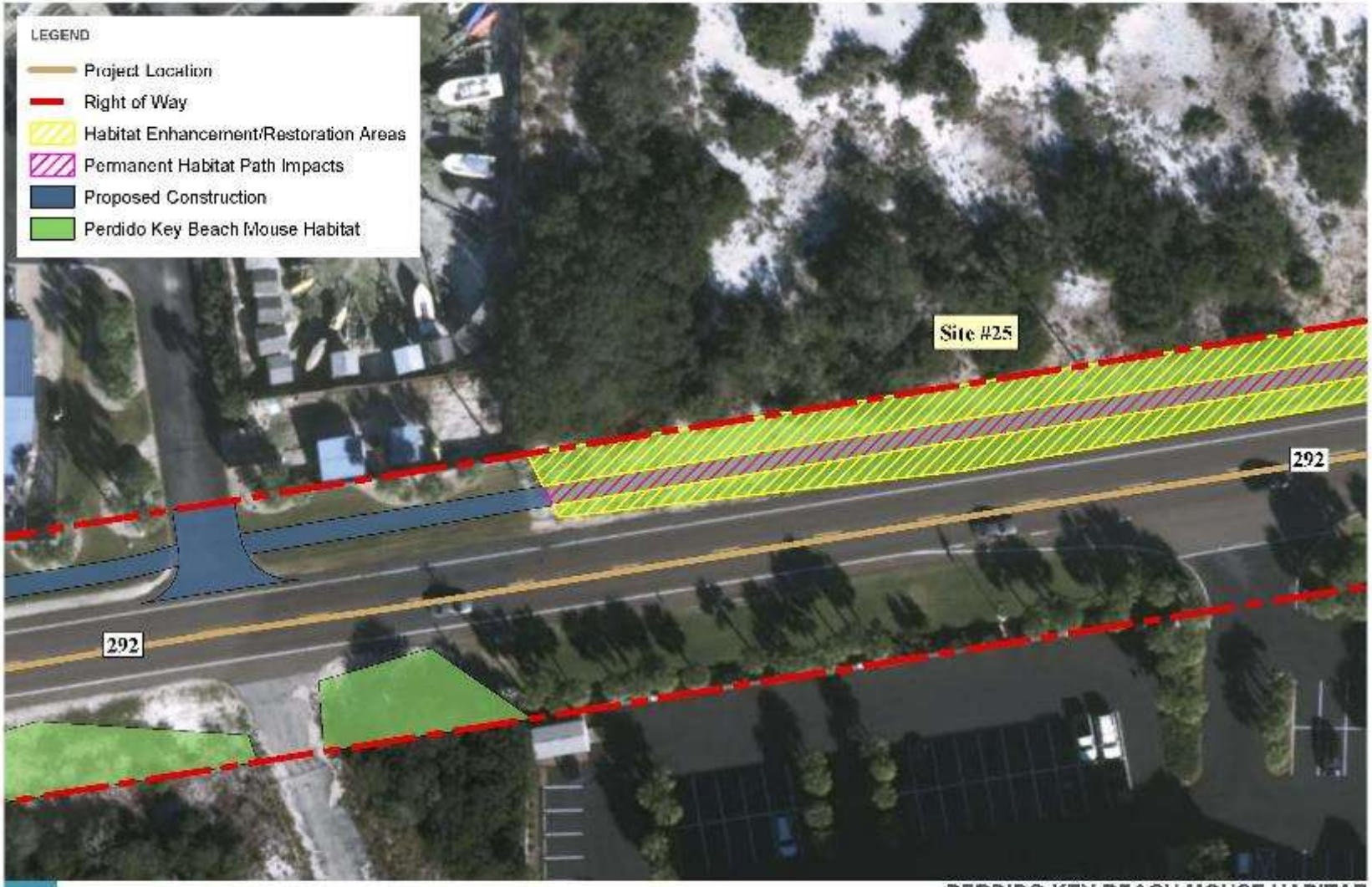
PERDIDO KEY BEACH MOUSE HABITAT
SR 292 (PERDIDO KEY DRIVE)
FROM ALABAMA STATE LINE TO WEST STATE PARK BOUNDARY
SHEET 13 OF 21 FPID: 439908-2

FDOT

0 Feet 50

PERDIDO KEY BEACH MOUSE HABITAT
SR 292 (PERDIDO KEY DRIVE)
FROM ALABAMA STATE LINE TO WEST STATE PARK BOUNDARY
SHEET 14 OF 21 FPID: 439908-2



FDOT

0 Feet 50

PERDIDO KEY BEACH MOUSE HABITAT

SR 292 (PERDIDO KEY DRIVE)

FROM ALABAMA STATE LINE TO WEST STATE PARK BOUNDARY

SHEET 16 OF 21 FPID: 439908-2

FDOT

0 Feet 50

PERDIDO KEY BEACH MOUSE HABITAT
SR 292 (PERDIDO KEY DRIVE)
FROM ALABAMA STATE LINE TO WEST STATE PARK BOUNDARY
SHEET 16 OF 21 FPID: 439908-2

FDOT

0 Feet 50

PERDIDO KEY BEACH MOUSE HABITAT
SR 292 (PERDIDO KEY DRIVE)
FROM ALABAMA STATE LINE TO WEST STATE PARK BOUNDARY
SHEET 17 OF 21 FPID: 439908-2

FDOT

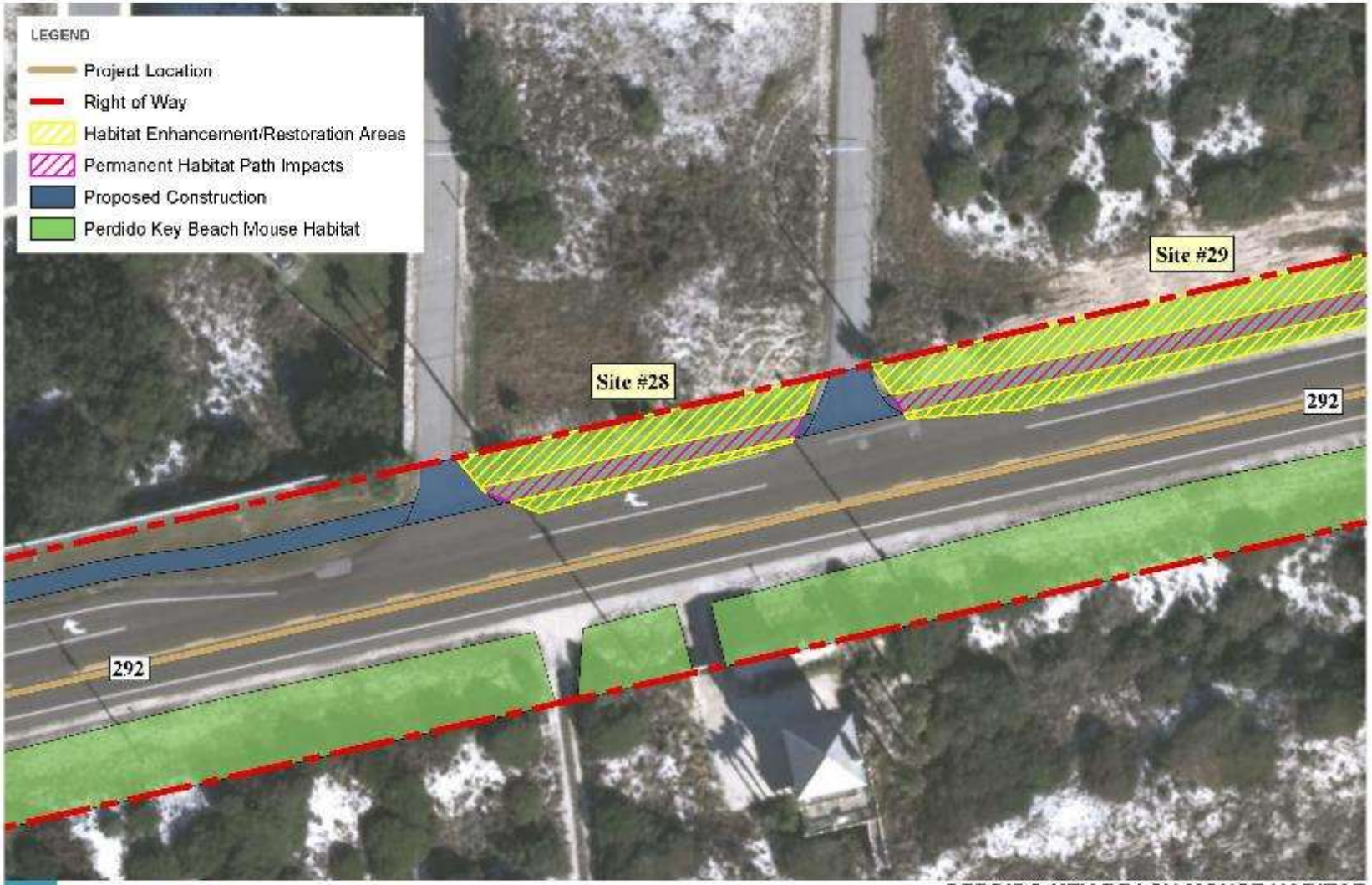
0 Feet 50

PERDIDO KEY BEACH MOUSE HABITAT

SR 292 (PERDIDO KEY DRIVE)

FROM ALABAMA STATE LINE TO WEST STATE PARK BOUNDARY

SHEET 18 OF 21 FPID: 439908-2



FDOT

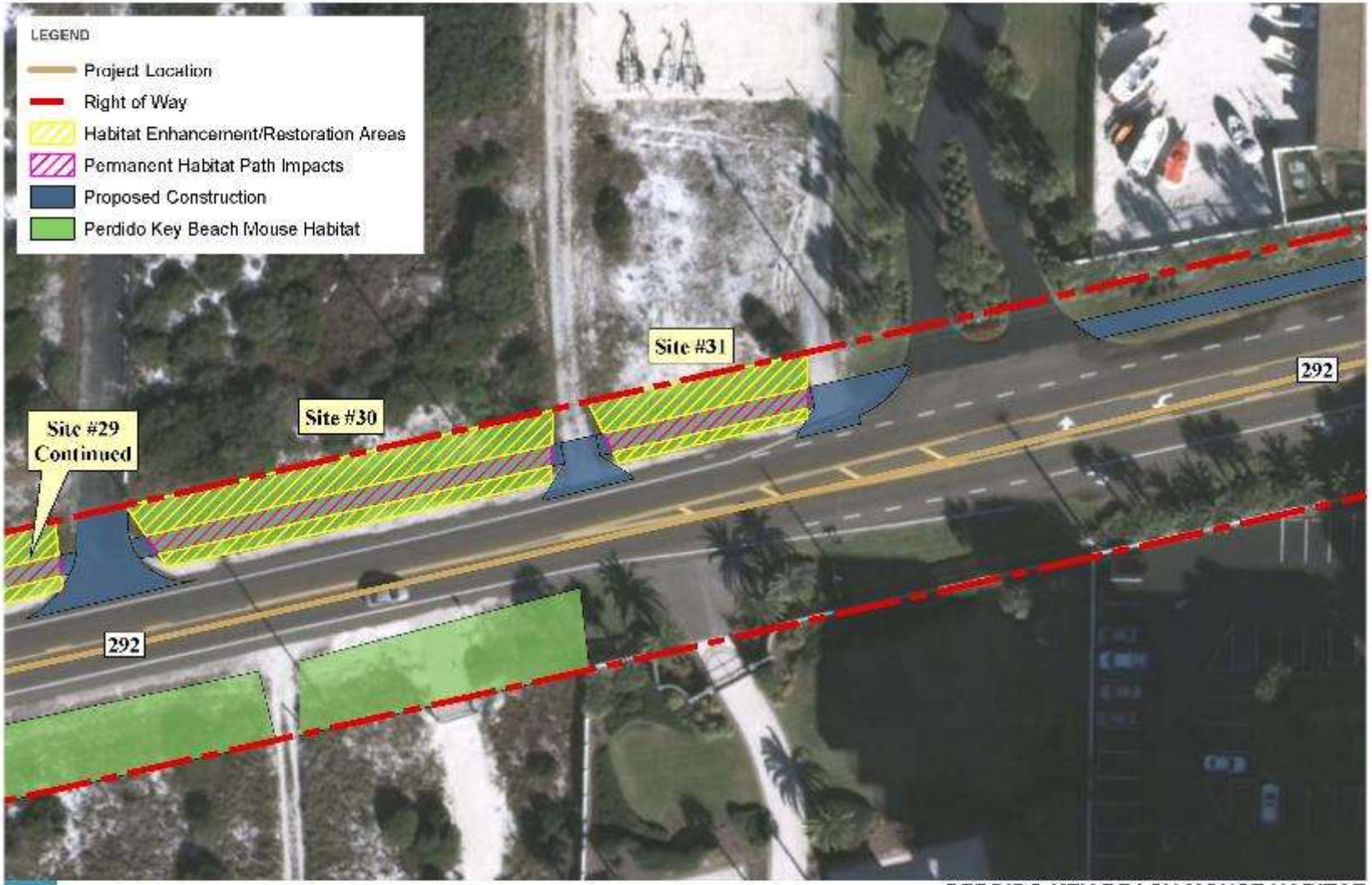
0 Feet 50

PERDIDO KEY BEACH MOUSE HABITAT

SR 292 (PERDIDO KEY DRIVE)

FROM ALABAMA STATE LINE TO WEST STATE PARK BOUNDARY

SHEET 19 OF 21 FPID: 439908-2



FDOT

0 Feet 50

PERDIDO KEY BEACH MOUSE HABITAT

SR 292 (PERDIDO KEY DRIVE)

FROM ALABAMA STATE LINE TO WEST STATE PARK BOUNDARY

SHEET 20 OF 21 FPID: 439908-2

FDOT

0 Feet 50

PERDIDO KEY BEACH MOUSE HABITAT
SR 292 (PERDIDO KEY DRIVE)
FROM ALABAMA STATE LINE TO WEST STATE PARK BOUNDARY
SHEET 21 OF 21 FPID: 438908-2

Appendix B

Mitigation Only Site Maps

FDOT

0 Feet 100

MITIGATION ONLY SITE
SR 292 (PERDIDO KEY DRIVE)
FROM ALABAMA STATE LINE TO WEST STATE PARK BOUNDARY
FPID: 438908-2

FDOT

0 Feet 40

MITIGATION ONLY SITE
SR 292 (PERDIDO KEY DRIVE)
FROM ALABAMA STATE LINE TO WEST STATE PARK BOUNDARY
FPID: 438908-2