

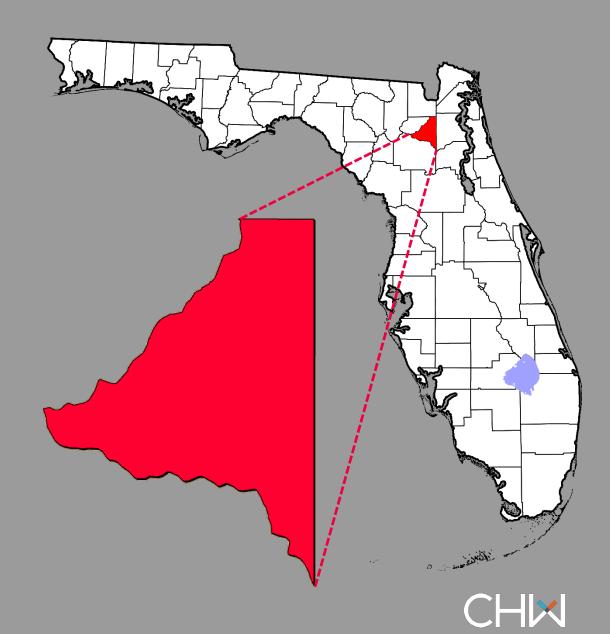


Flying to the Finish Line /

Development Investment Community

BRADFORD COUNTY MAP Baker FLORIDA, USA Lawtey Union State Prison Field Lawtey 301N Starke Starke Clay Starke Golf & Country Club Brooker 2015 Brooker Hampton Keystone Airpark Alachua Keystone Heights Golf & Country Club **LEGEND** River/Stream Highway Class County Seat Airport Type Federal County Subdivision **♦** Golf Course + Small County Boundary Putnam Copyright @ 2017 www.mapsofworld.com

Project Location



Florida Department of Economic Opportunity (DEO)

"The Florida Department of Economic Opportunity (DEO) invests in the prosperity of all Floridians and their communities. DEO combines economic development initiatives, workforce support and training, and community development efforts to fuel job creation around the state. The state and federal programs administered by DEO help support local businesses, engage talented job seekers and enhance our state's diverse communities."

Prosperity

Bradford County and the Keystone Heights Airport has made it a mission to improve the lives of the citizens that support them.

Job Creation

Opportunities for trade & shipping, manufacturing, repair & restoration, and all supporting roles.

- Economic Development
- Workforce Investments
- Strong Communities



Program Details

Bradford County / KHA awarded DEO grant Fall 2019

Keystone Heights Traffic Impact Analysis Begin Fall 2019 Draft Fall 2020

FAA Environmental Assessment
Begin Fall 2019
Approved Winter 2022

Infrastructure Improvements Design & Permitting

Begin Winter 2022

DEO Improvements Completion Deadline June 30, 2023



Stakeholders

Interested Parties







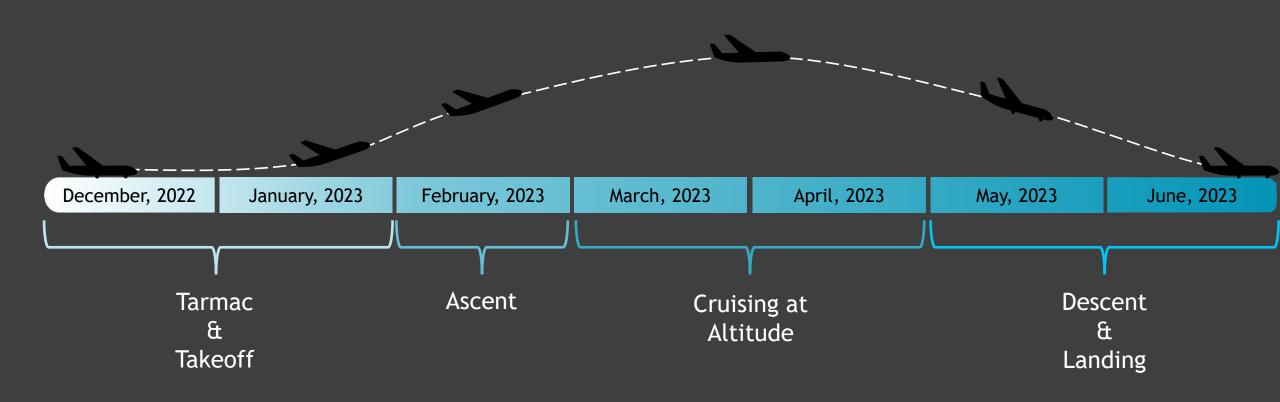


Project Team



Hamilton Custom Services, LLC

PROJECT Flight Path





Notice to Proceed 1/3/23

CHW, ECS are contracted to begin work on the geotechnical, ecological, survey.

Design & Production Begins

- Pavement & Alignment Design
 - Frontload CAD design files
 - Build 3D corridor



Access Road

Wetlands and Gopher Tortoise Survey Completed 1/25/23

- 16 burrows within the corridor and 75ft buffer
 - Additional Services contract initiated
 - SJRWMD Discussion Begins



60% Access Road
Design Submittal
Drop corridor into survey surface
3/3/2023



60% Connector Road and SR 100 Widening Design Submittal 3/17/23

December, 2022

Project Conception 12/22/23

KHA & Bradford County request professional services, discuss scope, and introduce DEO initiatives & deadlines.



January, 2023



Initial Quarterly Report, Project Schedule, and Spenddown Created





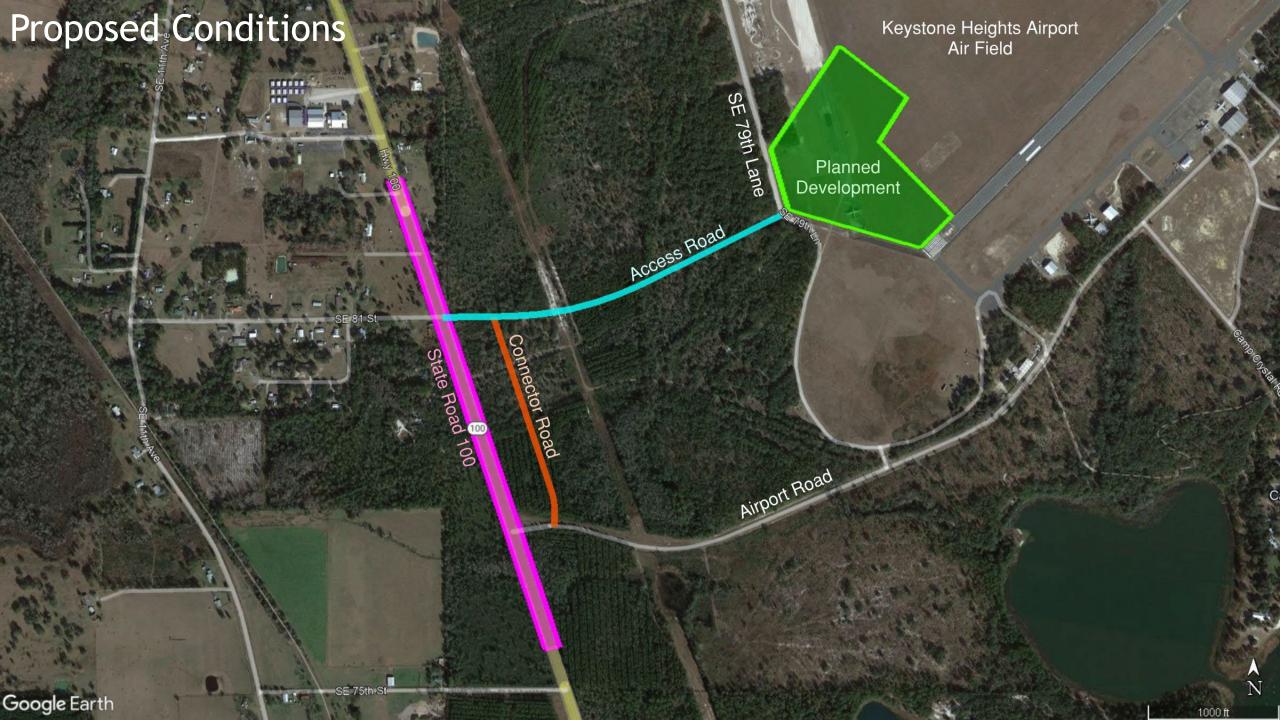
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Access Road

Survey and Preliminary Geotech Received 2/13/2023





SE 81ST ST SE 75TH ST SE 66TH

Keystone Heights Airport Traffic Impact Analysis

TIA Limits
SE 94th Street to SE 66th Street

SE 94th St

LEGEND
PROPOSED SITE LOCATION

STUDY INTERSECTION

STOP CONTROLLED INTERSECTION

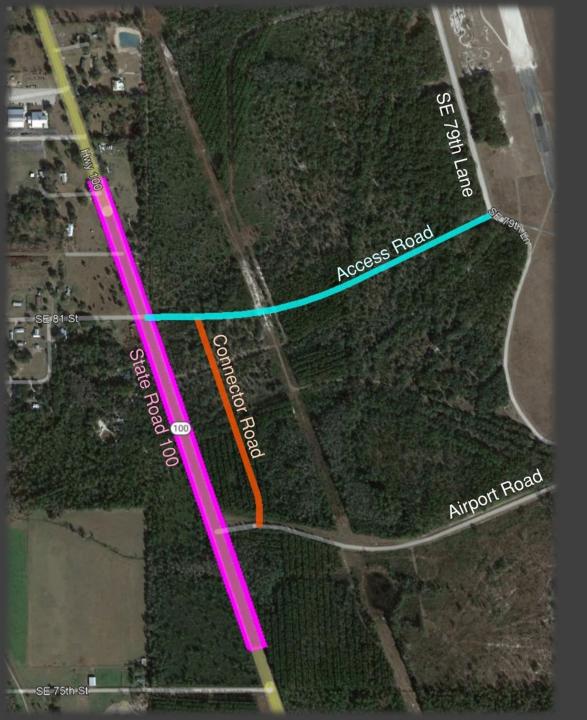
Figure 12: 2035 PM Peak-Hour Total Traffic (using turning movement counts)

2035 Total Volume
 2,587 from SE 66th to SE 94th

Warrants based on 2035 Traffic Projections

- Left turn lane on SB SR 100 at Airport Road
- Right turn lane from NB SR 100 at Airport Road
- Left turn lane on SB SR 100 at Access Road
- Right turn lane on SB SR 100 at Access Road
- Traffic signal is not warranted





Proposed Improvements

Access Road from SR 100 to SE 79th Lane

- 2-Lane Rural Section
- Fiber Infrastructure
- Storage Swales

Connector Road from Access Road to Airport Road

- 2-Lane Rural Section
- Storage Swales
- MISS WETLANDS

State Road 100 Widening & Turn Lane Additions

- Center Widening 2-lane to 3-lane section
- Two Left Turn Lanes
- Two Right Turn Lanes
- Maintain existing drainage patterns
- FDOT Coordination for Access/Connection Permitting



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Access Road

Survey and Preliminary Geotech Received 2/13/2023



Project Scope Objectives

Data Collection

Geotechnical Analysis

- 92 Auger Borings
- 6 Bulk Samples (LBR Testing)
- Muck Probes
- Lab Testing

Ecological Studies

- Threatened & Endangered Species Survey
- 100% Formal Gopher Tortoise Survey
- Wetlands Determination
- Migration Study

Survey

- BL Survey Alignment and Control
- 3D Survey for all corridors

Design & Permitting

Roadway & Drainage

- Alignment and typical section design
- New Construction pavement design
- Storage swales for runoff collection
- Ditch block concept
- SR 100 center-widening
- Maintaining SR 100 Drainage patterns

Permitting

- Wetland
- Migration Study
- SRWMD General Use Permit
- FWC 7 Gopher Tortoise Relocations

Scope of Services Approved Notice to Proceed 1/3/23



Construction

Access Road

- Roadway and swales
- Fiber Infrastructure

Project Goals

Access Road - Design, Permit, Construct
Connector Road - Design
SR 100 - Design, FDOT Coordination

AVOID WETLAND IMPACTS



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March, 2023



February, 2023

Access Road

Survey and Preliminary Geotech Received 2/13/2023





Initial Project Spenddown DEO Grant Amount: \$2.3 Million

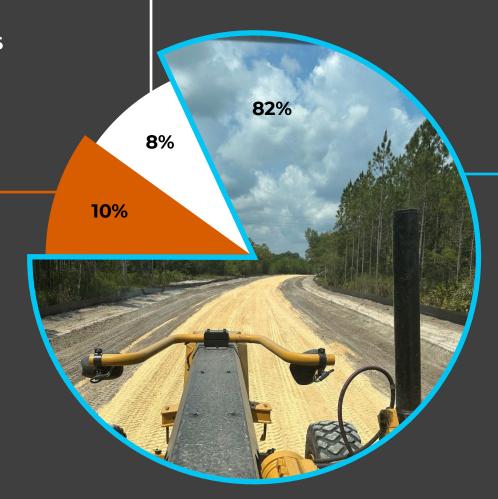


Support Services
Survey - CHW
Geotech - ECS
Environmental - ECS





Project Management
Roadway Design
Existing Drainage Analysis
Swale/Drainage Design
Permitting Services
Utility Coordination
QA/QC
Cost Estimating
Post Design Services





Construction Services
Clearing - Hamilton Custom Services
Roadway - Bradford County PW

IT Infrastructure - Bradford County PW



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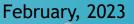
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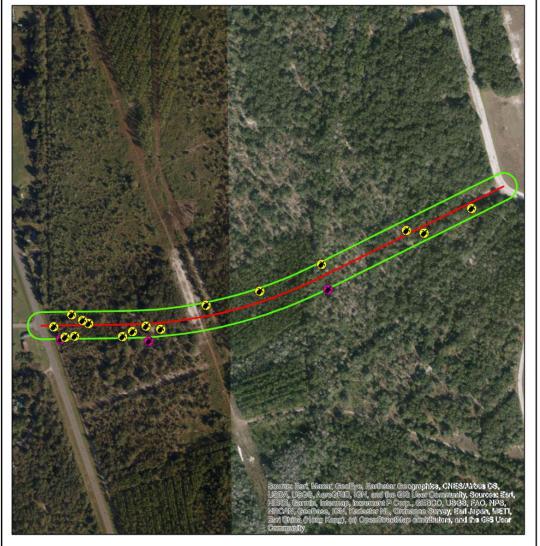


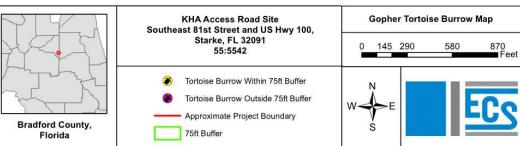














Wetlands and Gopher Tortoise Survey Complete 1/25/2023

- 27 Gopher Tortoise Burrows Total
- 16 Gopher Tortoise Burrows in Access Road Corridor

→ Additional Services Contract

- ECS to manage the relocation of gopher tortoises and perform final 100% GT survey
- Hamilton Custom Services excavation





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Access Road
Wetlands and Gopher
Tortoise Survey Completed
1/25/23

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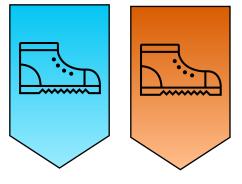


February, 2023

Access Road

Survey and Preliminary Geotech Received 2/13/2023





Survey and Preliminary Geotech Received

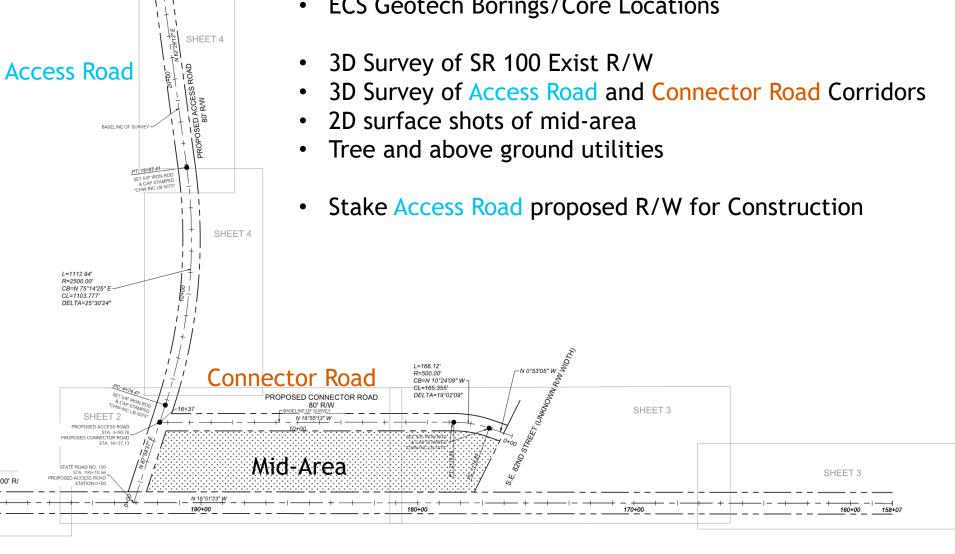
State Road 100

S.E. STATE ROAD NO. 100 (100' F

Survey Items

STATION 27+26.44 SET NAIL & DISK "CHW INC LB 5075"

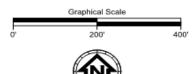
- Map SR 100 Alignment
- ECS Wetland Delineation Flags
- ECS Geotech Borings/Core Locations



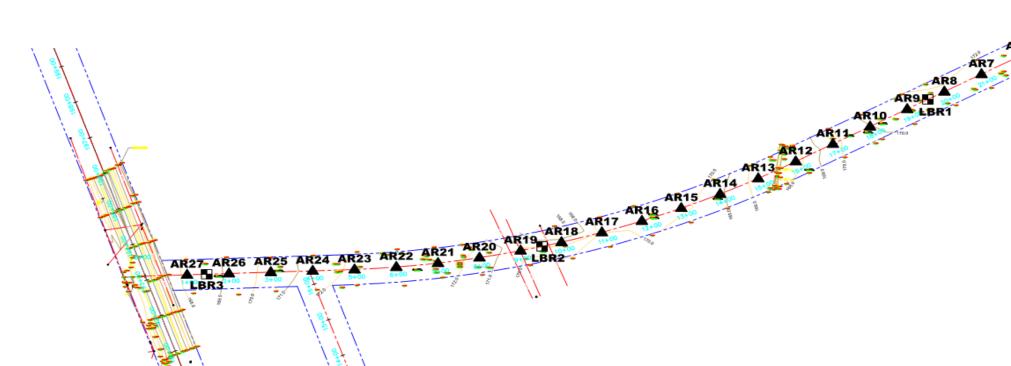


Access Road

Preliminary Geotech Received









LEGEND

Approximate Location of Auger Boring

Approximate Location of Limerock Bearing Ratio (LBR) Test



Access Road

Preliminary Geotech Received

Geotechnical Analysis

- Soil Survey
- 21 Auger Borings drilled to 6 ft depth
- 6 Auger Borings drilled to 10 ft depth

Table 3.4.1 Subsurface Stratigraphy

Stratum	Description	Approximate Depth Range (ft beneath grade)	AASHTO Soil Classification
1	Fine SAND, Fine SAND With Silt, and Fine SAND with Clay	0 to 7	A-3
2	Silty Fine SAND	7 to 10	A-2-4
3	Clayey Fine SAND	3 to 10	A-2-4
4	Very Clayey Fine SAND	4 to 10	A-6

Geotechnical Findings

- Groundwater depths of 2 FT to greater than 10 FT
- Undercut unsuitable soils in strata 3 & 4
- Average unsaturated vertical infiltration rate: 7.2 ft/day
- Average horizontal hydraulic conductivity rate: 10.7 ft/day

Figure 3.3.1 Soil Survey Map



Table 3.3.1 Soil Survey Data

Soil ID	Soil Type	Typical Profile	Hydrology	Hydrologic Soil Classification	Estimated Seasonal High Groundwater Level ⁽¹⁾
2	Albany fine sand, 0 to 5 percent slopes	0 to 50 inches: fine sand 50 to 60 inches: sandy loam 60 to 80 inches: sandy clay loam	Somewhat poorly drained	A/D	12-30
12	Sapelo sand	0 to 50 inches: sand 50 to 80 inches: sandy clay loam	Poorly drained	B/D	6-18
17	Blanton fine sand, 0 to 5 percent slopes	0 to 42 inches: fine sand 42 to 48 inches: loamy fine sand 48 to 80 inches: sandy clay loam	Moderately well drained	Α	36-72

(1) Inches below ground surface at time of survey.

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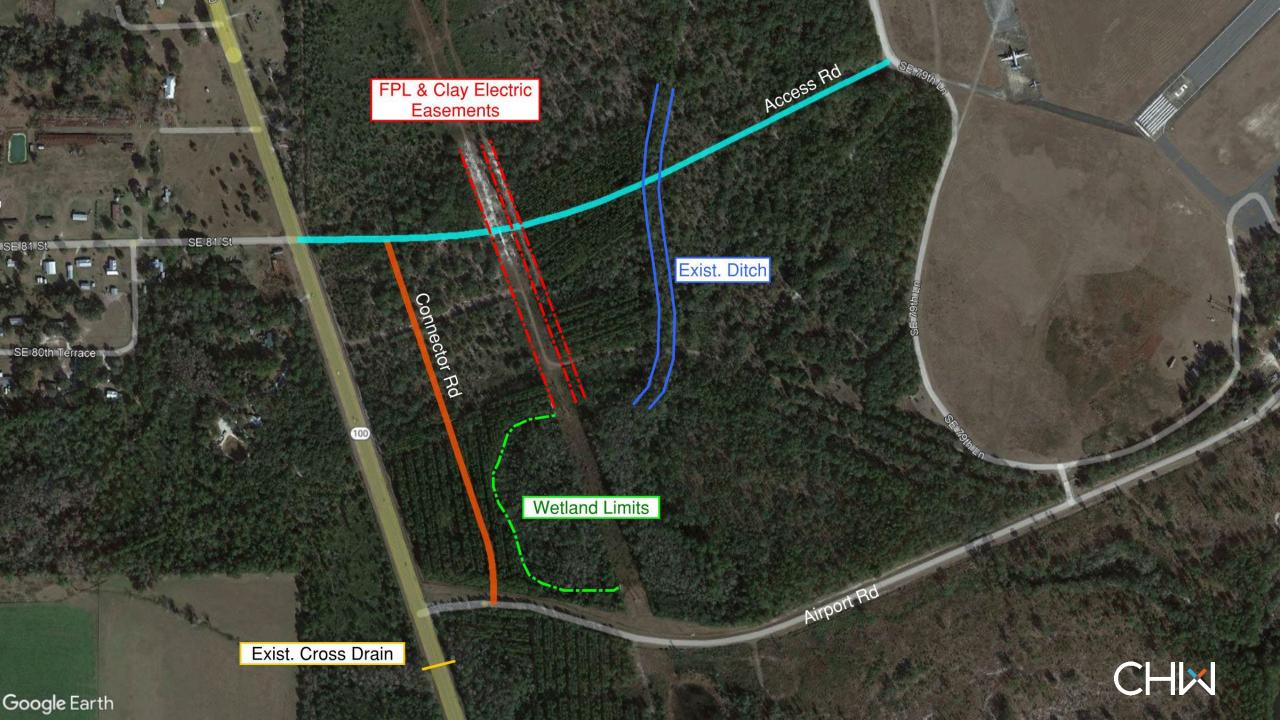


Connector Road & SR 100 Survey Received 2/27/2023



Access Road Survey and Preliminary Geotech Received 2/13/2023



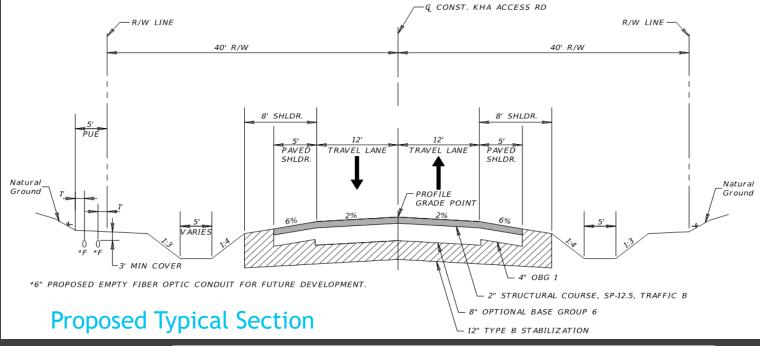


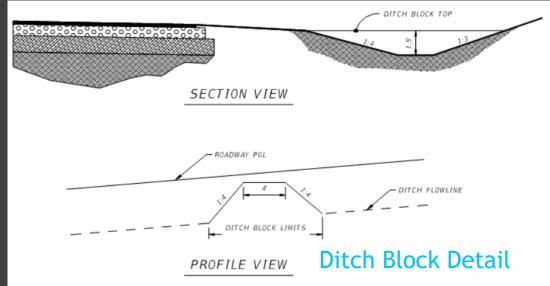


Access Road 60% Design

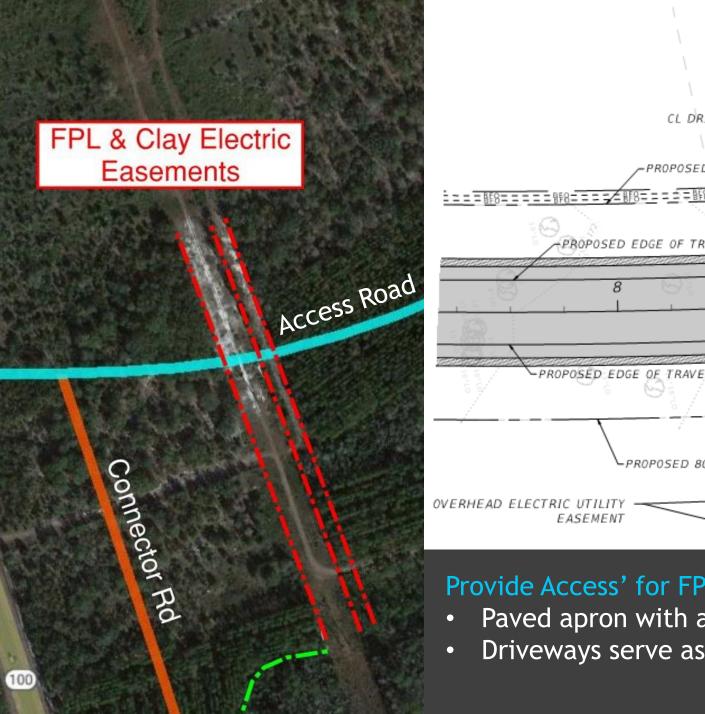
Key Design Elements

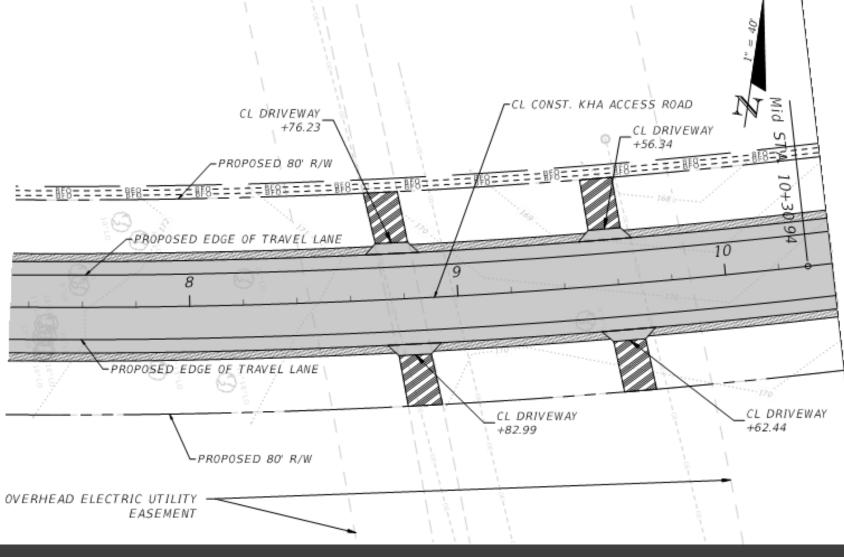
- Roadway geometry per FDOT Standard
- Design Speed = Target Speed = 25 MPH
- Pavement Design >1.5M ESAL
- Dead End berm at beginning (SR 100 R/W)
- Supply access to Overhead Power easements
- · Cross Drain at existing ditch
- Storage Swale Calculation
- Ditch blocks
- Tie into existing SE 79th Lane
- Fiber Infrastructure







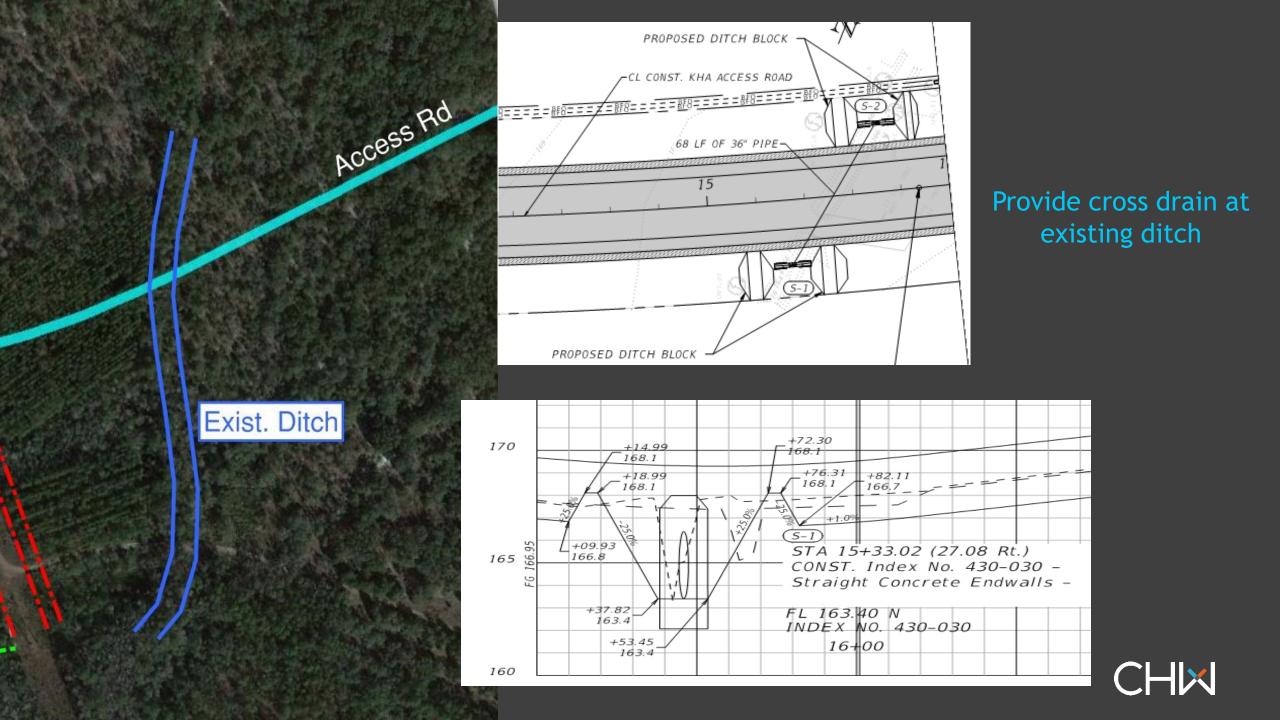




Provide Access' for FPL and Clay Electric Utility Easements

- Paved apron with asphalt milling driveway material
- Driveways serve as ditch blocks to stage storage



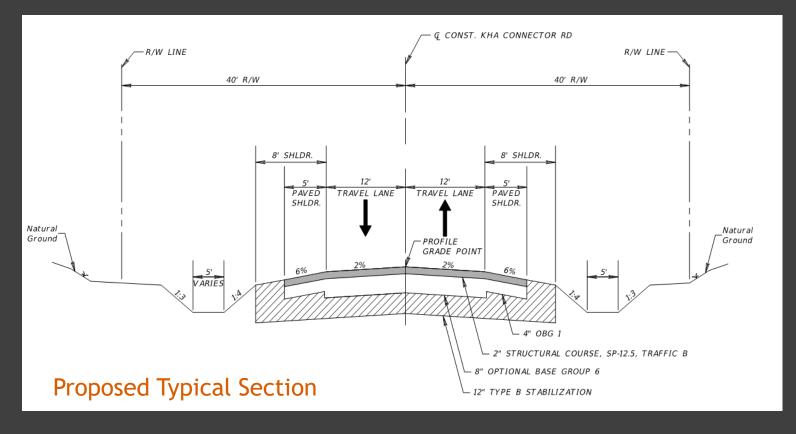


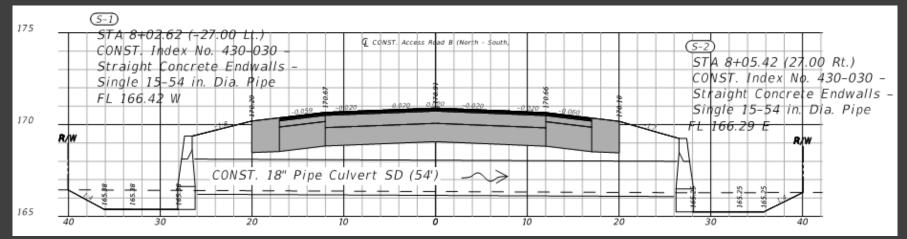


Connector Road 60% Design Submittal

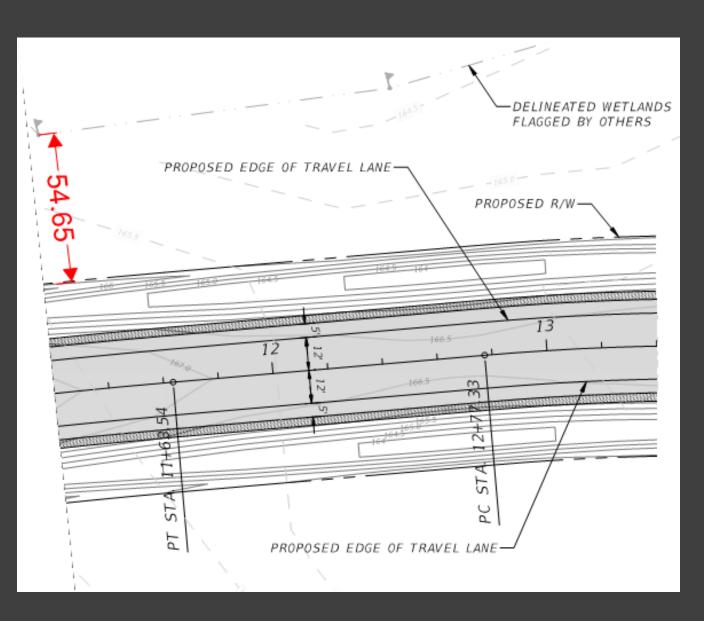
Key Design Elements

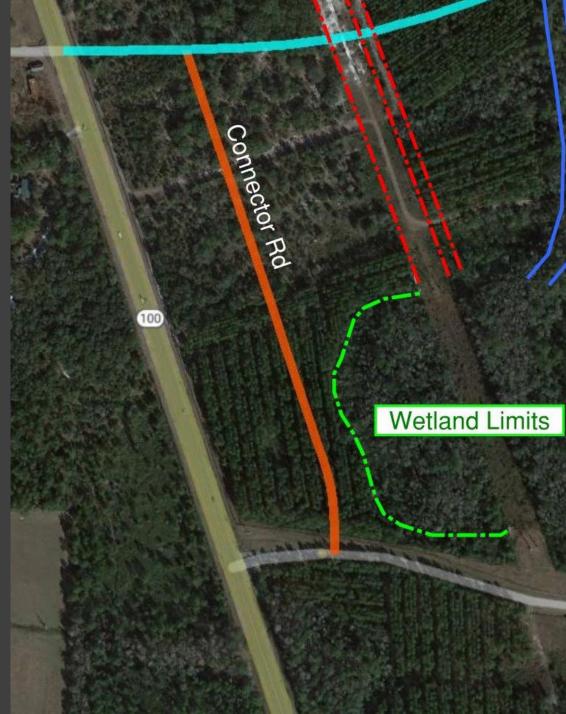
- Roadway geometry per FDOT Standard
- Design Speed = Target Speed = 25 MPH
- Pavement Design >1.5M ESAL
- Cross Drain at Low Point
- Storage Swales
- Avoid Wetlands











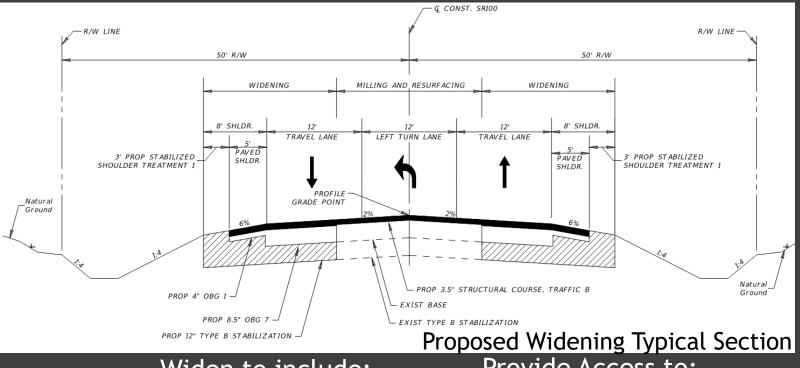


SR 100 Widening 60% Design Submittal

Key Design Elements

- Roadway geometry per FDOT Standard
- Design Speed = 65 MPH
- Limit R/W Acquisition
- Maintain drainage patterns
- Replace existing cross drain

Pavement Design >11,000,000 ESAL Mill & Resurface: **Existing Travel Lanes**

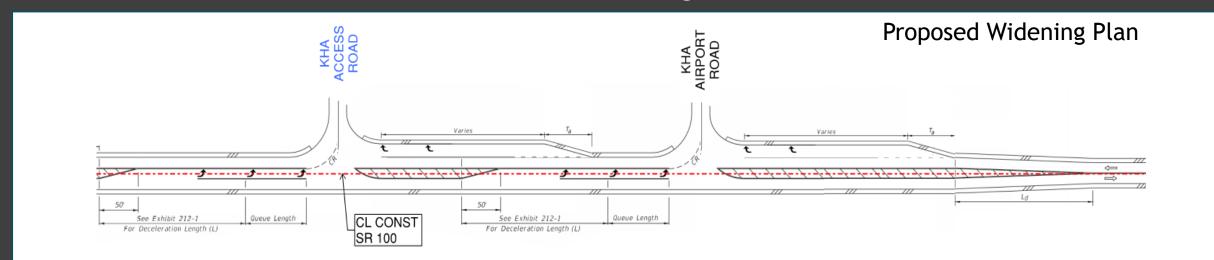


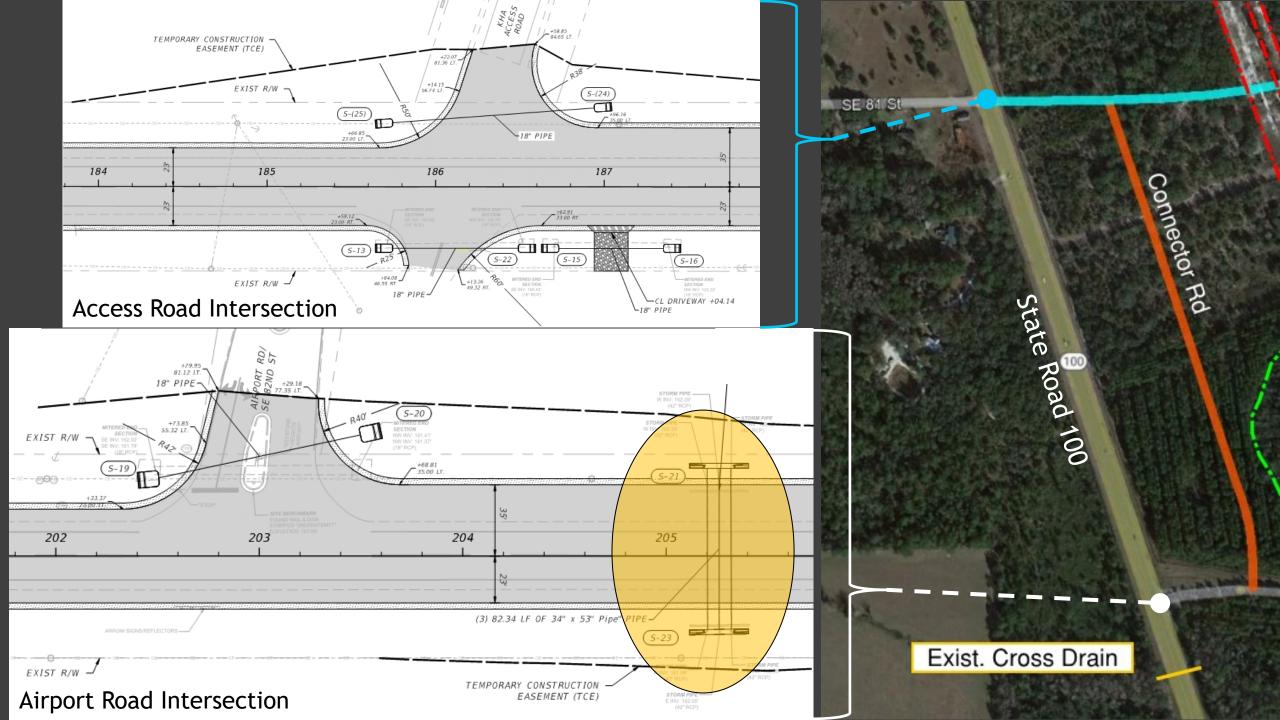
Widen to include:

Center-Left Turn Lane Right Turn Lanes

Provide Access to:

Proposed Access Road Existing Airport Road





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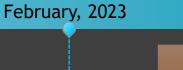
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March, 2023



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Flying to the Finish Line



SJRWMD Permit Received 5/5/23

Construction to begin on the Access Road corridor immediately



90% Access Road Design Submittal 4/7/2023



Access Road Construction Begins 5/6/23



SR 100 Widening FDOT Coordination & Permit Meeting 5/18/23

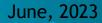


Project Complete 6/30/23

Access Road construction completed. Connector Road and SR 100 designs completed.

April, 2023







Access Road Construction Complete 6/15/23

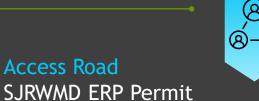
Construction completed by Bradford County.



Gopher Tortoise Relocation 4/17/23

Application Submittal

4/17/23





Design Submittal 4/30/2023 Submitted to SRWMD

100% Access Road



90% Connector Road and SR 100 Widening Design Submittal 5/7/23



Flying to the Finish Line







Gopher Tortoise Relocation Access Road Details

- 16 burrows within corridor and 75' buffer
- 15 relocations estimated
- 7 active burrows found
- 7 gopher tortoises relocated to Skeeter Ranch
- \$5,000 per tortoise
- \$35,000 mitigation







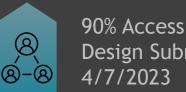




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May, 2023



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Gopher Tortoise Relocation 4/17/23

7 Gopher Tortoises



100% Access Road Design Submittal 4/30/2023 Submitted to SRWMD



June, 2023

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Construction completed by Bradford County.



Access Road

SJRWMD ERP Permit **Application Submittal** 4/17/23



90% Connector Road and SR 100 Widening Design Submittal 5/17/23



Flying to the Finish Line

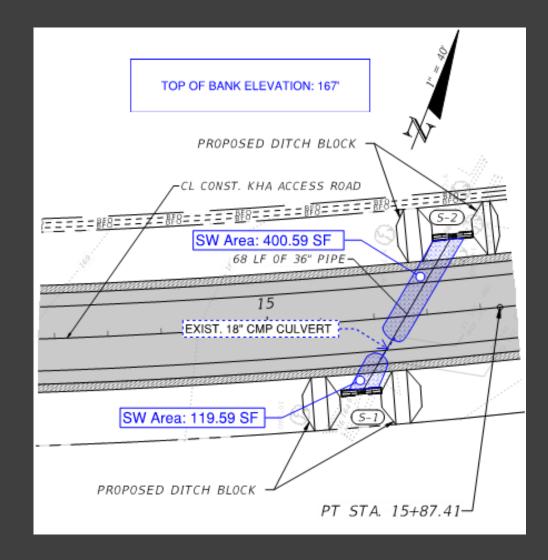


Access Road

SRWMD ERP Permit Application Submittal 4/17/23

SJRWMD ERP Permit Details

- FWC Gopher Tortoise Relocation complete
- No FDEP mitigation required
- Surface Water impacts quantified: 0.012 AC
- Final Plans approved
- Silt fence in place approved during SJRWMD field visit
- No wetlands impacted
- Storage swales approved as Geotech reports sufficient hydro conductivity (vertically & horizontally)
 - Water Quality Treatment volume recovery of 36 hours
- Storage swales calculations show that 1.5' typical swale depth will contain adequate peak runoff storage for each roadway drainage basin @ 25-year, 24-hour storm event
 - Storage swales treated as separate ponds

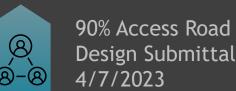






SJRWMD Permit Received 5/5/23

Final RAI submitted and approved





Access Road
Construction Begins
5/6/23



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April, 2023



May, 2023

Gopher Tortoise Relocation 4/17/23

7 Gopher Tortoises



S&S Access Road
Design Submittal
4/30/2023
Submitted to SRWMD



June, 2023

Access Road Construction Complete 6/15/23

Construction completed by Bradford County.



Access Road
SJRWMD ERP Permit
Application Submittal
4/17/23



90% Connector Road and SR 100 Widening Design Submittal 5/17/23









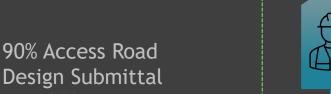


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May, 2023







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5/6/23



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7 Gopher Tortoises



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June, 2023

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Access Road
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Application Submittal
4/17/23



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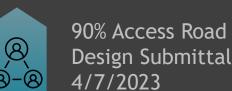


Flying to the Finish Line



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7 Gopher Tortoises



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Y.....

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June, 2023

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Complete 6/15/23
Construction completed by

Construction completed by Bradford County.



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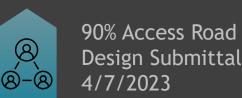






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May, 2023





Access Road Construction Complete 6/15/23

Construction completed by Bradford County.



Gopher Tortoise Relocation 4/17/23

7 Gopher Tortoises



Access Road
SJRWMD ERP Permit
Application Submittal
4/17/23



S&S Access Road Design Submittal 4/30/2023 Submitted to SRWMD



90% Connector Road and SR 100 Widening Design Submittal 5/17/23



Flying to the Finish Line



Project Complete 6/30/23

Access Road construction completed. Connector Road and SR 100 designs completed.



4049 Reid Street • P.O. Box 1429 • Palatka. FL 32178-1429 • 386-329-4500 • www.sirwmd.com



Gopher Tortoise Conservation
FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION
Division of Habitat and Species Conservation
Wildlife Diversity Conservation Section
620 South Meridian Street, Mail Station 2A Tallahassee, Florida 32399-1600

Permittee Address

555 S Lawrence Blvd. KEYSTONE HEIGHTS, FLORIDA

03/30/2024

03/30/2023

Effective Date:

Agent Name: Agent Address:

ORLANDO, FLORIDA 32809 UNITED STATES

Capture, transport and relocate all gopher tortoise (Gopherus polyphenus) hatchlings less than or equal to 60 mm carapsec length (CL), aposher tortoises greater than 60 mm CL by non-harmful means and to molest, damage or destroy gopher tortoise burrows while conducting these activities, subject to the following conditions and provisions, in association with development activities at the following site.

Total number of gopher tortoises authorized: 15

Authorized Capture Methods:

- Capture gopher tortoises using bucket traps
 Capture gopher tortoises using hand shovel excavation of gopher tortoise burrows
 Transport, marking and release of gopher tortoises
 Supervise backhoe excavation of gopher tortoise burrows to capture gopher tortoises

AUTHORIZED LOCATION(S): 9.95-acre KHA Expansion Project Site (Latitude 29° 50' 13.43" N Longitude 82° 3' 21.61" W), City STARKE, County BRADFORD

Off-site relocation Recipient Site Name: Skeeter Ranch Recipient Site

Unit Name: Skeeter Ranch Recipient Site - Reserved Tortoise Capacity: 15 (Latitude 30° 26' 23.42* N Longitude 83° 4' 6.03* W), Counties HAMILTON Authorized under permit GTLR-22-00005

Authorized for: Melissa Tucker, Division Director

PERMIT NO. GTC-23-00091

COMPONENTS OF CONTRACT PLANS SET SIGNING AND PAVEMENT MARKING PLANS

INDEX OF ROADWAY PLANS

KEY SHEET

SIGNATURE SHEET GENERAL NOTES

DRAINAGE WAR TYPICAL SECTION SPECIAL PROFILES

CROSS SECTIONS

ndard Plans for Road Construction and associated Irs are available

5://WWW.FD07.GOV/DESIGN/STANDARDPLANS/SPREC.SHTM

DRAINAGE CROSS SECTION

ROADWAY SOIL PROFILES

STROMWATER POLLUTION PREVENTION PLA ROADWAY SOIL SURVEY

SHEET DESCRIPTION

BRADFORD COUNTY BOARD OF COUNTY COMMISSIONERS

CONTRACT PLANS

SR100 WIDENING FROM SE 84TH ST TO SE 75TH ST



COMPONENTS OF CONTRACT PLANS SET ROADWAY PLANS SIGNING AND PAVEMENT MARKING PLANS

BRADFORD COUNTY BOARD OF COUNTY COMMISSIONERS

CONTRACT PLANS

KHA CONNECTOR ROAD FROM KHA ACCESS ROAD TO AIRPORT ROAD/SE 82ND ST



SCALE: I* = 2000

COMPONENTS OF CONTRACT PLANS SET ROADWAY PLANS INDEX OF ROADWAY PLANS

4	DRAINAGE MAP
5	TYPICAL SECTION
2	PROJECT LAYOUT
7-9	ROADWAY PLAN AND PROFILE
10-12	SPECIAL PROFILES
13-28	CROSS SECTIONS
29	DRAINAGE CROSS SECTIONS
30	STORMWATER POLLUTION PR
31	ROADWAY SOIL SURVEY
32-33	ROADWAY SOIL PROFILES

TRAFFIC CONTROL PLAN

KEY SHEET

SIGNATURE SHEET

BRADFORD COUNTY BOARD OF COUNTY COMMISSIONERS

CONTRACT PLANS

KHA ACCESS ROAD FROM US 100 R/W TO KHA SE 79TH LN



SHEET NO.	SHEET DESCRIPTION
1	KEY SHEET
2	SIGNATURE SHEET
3	GENERAL NOTES
4	DRAINAGE MAP
5	TYPICAL SECTION
6	SPECIAL DETAILS
7	PROJECT LAYOUT
8-12	ROADWAY PLAN AND PROFILES
13-18	SPECIAL PROFILES
19-41	CROSS SECTIONS
42	DRAINAGE CROSS SECTION
43	STORMWATER POLLUTION PREVENTION PLAN NOTES
44	FIELD EXPLORATION DIAGRAM
45	ROADWAY SOIL SURVEY SHEET
46-48	ROADWAY SOIL PROFILES
49-50	TRAFFIC CONTROL PLANS



STA 00+80.00 Ct Const. KHA ACCESS ROAD

Bradford County Horida

100% PLANS

BRADFORD COUNTY PROJECT NANAGER





Final Project Spenddown DEO Grant Amount: \$2.3 Million

8%

8%



Support Services
Survey - CHW
Geotech - ECS
Environmental - ECS



Permitting Mitigation Services

Agency Coordination - ECS

Production - CHW

GT Relocation - Hamilton Custom Services



Design Services - CHW

Project Management
Roadway Design
Existing Drainage Analysis
Swale/Drainage Design
Permitting Services
Utility Coordination
QA/QC (Constructability & Biddability)
Cost Estimating
Post Design Services



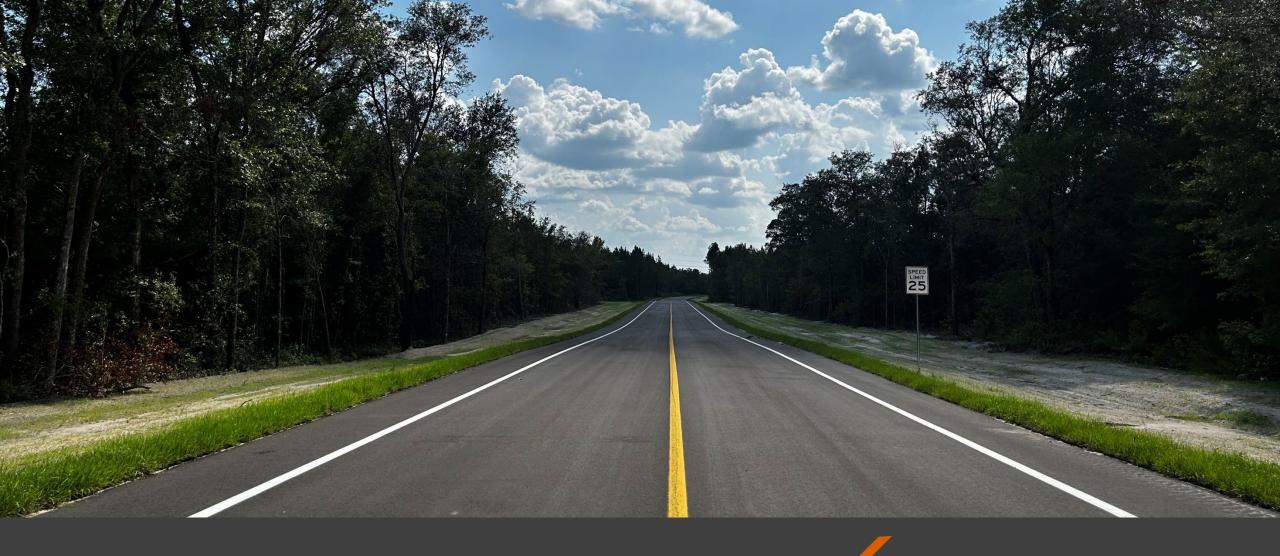
74%



Construction Services

Clearing - Hamilton Custom Services Roadway - Bradford County PW IT Infrastructure - Bradford County PW





QUESTIONS

