

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION
MATERIALS AND RESEARCH

DATE OF SURVEY: 2/15/2018-5/1/2018
SURVEY MADE BY: SOIL SURVEY, INC.
SUBMITTED BY: LEIA I. CROSSWELL, P.E.
DISTRICT: THREE

FINANCIAL PROJECT ID : 123456-1-52-01
PROJECT NAME: SR 22 (WEWA HWY)

CROSS SECTION SOIL SURVEY FOR THE DESIGN OF ROADS

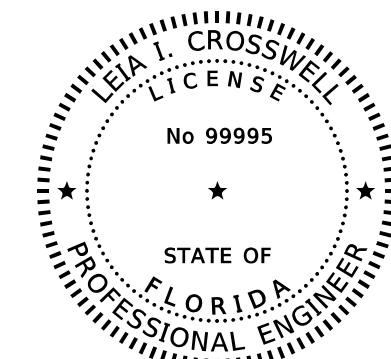
SURVEY BEGINS STA. : 125+87 SURVEY ENDS STA. : 442+67 REFERENCE: BASELINE SURVEY

STRATUM NO.	ORGANIC CONTENT		MOISTURE CONTENT		SIEVE ANALYSIS RESULTS PERCENT PASS (%)						ATTERBERG LIMITS (%)				CORROSION TEST RESULTS					
	NO. OF TESTS	% ORGANIC	NO. OF TESTS	MOISTURE CONTENT	NO. OF TESTS	10 MESH	40 MESH	60 MESH	100 MESH	200 MESH	NO. OF TESTS	LIQUID LIMIT	PLASTIC INDEX	AASHTO GROUP	DESCRIPTION	NO. OF TESTS	RESISTIVITY ohm-cm	CHLORIDE ppm	SULFATES ppm	pH
1	1	1	1	6	14	100	82-88	39-41	12-16	5-10	--	--	--	A-3	GRAY TO BROWN SAND TO SAND WITH SILT	3	14,000-17,000	15	<4.8	7.1-7.9
2	--	--	--	--	9	100	68-78	36-37	15-21	11-34	--	--	--	A-2-4	LIGHT BROWN TO BROWN SILTY SAND	1	22,000	15	<4.8	--
3	--	--	11	7-18	11	100	77-80	41-46	27-30	20-34	11	25-34	11-18	A-2-4/A-2-6	LIGHT GRAY TO BROWN SILTY SAND TO CLAYEY SAND	--	--	--	--	--
4	54	5-56	54	17-575	54	--	--	--	--	4-64	--	--	--	A-8	DARK BROWN TO BLACK SAND TO SILTY SAND WITH ORGANIC MATERIAL	--	--	--	--	--
5	13	1-4	13	9-38	13	--	--	--	--	5-10	--	--	--	A-3/A-2-4	DARK BROWN SAND TO SAND WITH SILT WITH TRACE ORGANICS	--	--	--	--	--
6	--	--	18	11-35	18	--	--	--	--	36-76	18	22-49	10-26	A-6/A-7-6	GRAY CLAYEY SAND TO SANDY CLAY TO CLAY	--	--	--	--	--
7	--	--	7	19-31	8	100	86-89	58-73	47-68	45-66	7	51-66	32-42	A-7-5/A-7-6	GREEN TO BROWN CLAYEY SAND TO CLAY	--	--	--	--	--

NOTES:

1. THE MATERIAL FROM STRATUM 1 (A-3) APPEARS SATISFACTORY FOR USE IN THE EMBANKMENT WHEN UTILIZED IN ACCORDANCE WITH STANDARD PLANS, INDEX 120-001.
2. THE MATERIAL FROM STRATUM 2 (A-2-4) APPEARS SATISFACTORY FOR USE IN THE EMBANKMENT WHEN UTILIZED IN ACCORDANCE WITH STANDARD PLANS, INDEX 120-001. HOWEVER, THIS MATERIAL IS LIKELY TO RETAIN EXCESS MOISTURE AND MAY BE DIFFICULT TO DRY AND COMPACT. IT SHOULD BE USED IN THE EMBANKMENT ABOVE THE WATER LEVEL EXISTING AT THE TIME OF CONSTRUCTION.
3. THE MATERIAL FROM STRATA 3 AND 6 IS PLASTIC (A-2-4/A-2-6/A-6/A-7-6) MATERIAL AND SHALL BE REMOVED IN ACCORDANCE WITH STANDARD PLANS, INDEX 120-002 AND UTILIZED IN ACCORDANCE WITH STANDARD PLANS, INDEX 120-001.
4. THE MATERIAL FROM STRATUM 7 IS HIGH PLASTIC (A-7-5/A-7-6) MATERIAL AND SHALL BE REMOVED IN ACCORDANCE WITH STANDARD PLANS, INDEX 120-002 AND UTILIZED IN ACCORDANCE WITH STANDARD PLANS, INDEX 120-001.
5. THE MATERIAL FROM STRATUM 5 (A-2-4) APPEARS SATISFACTORY FOR USE IN THE EMBANKMENT WHEN UTILIZED IN ACCORDANCE WITH STANDARD PLANS, INDEX 120-001. HOWEVER, THIS MATERIAL MAY NOT BE USED IN THE SUBGRADE PORTION OF THE ROADBED DUE TO ITS ORGANIC CONTENT. THIS MATERIAL IS LIKELY TO RETAIN EXCESS MOISTURE AND MAY BE DIFFICULT TO DRY AND COMPACT. IT SHOULD BE USED IN THE EMBANKMENT ABOVE THE WATER LEVEL EXISTING AT THE TIME OF CONSTRUCTION.
6. THE MATERIAL FROM STRATUM NUMBER 4 IS MUCK (A-8) MATERIAL AND SHALL BE REMOVED IN ACCORDANCE WITH STANDARD PLANS, INDEX 120-002. THE REMOVAL LIMITS ARE PRESENTED ON THE MUCK DELINEATION PLAN SHEETS AND THE ROADWAY CROSS-SECTIONS.

EMBANKMENT AND SUBGRADE MATERIAL
STRATA BOUNDARIES ARE APPROXIMATE. MAKE FINAL CHECK AFTER GRADING.
▽ - SEASONAL HIGH WATER TABLE
▼ - WATER TABLE ENCOUNTERED
GNE - GROUNDWATER NOT ENCOUNTERED
GNA - GROUNDWATER NOT APPARENT DUE TO THE INTRODUCTION OF DRILLING FLUID



THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY:
Leia I. Crosswell
2018.10.11 8:31:01 - 4'00'
ON THE DATE ADJACENT TO THE SEAL
PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED.
THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

SOIL SURVEY, INC.
321 EAST 2ND STREET
TALLAHASSEE, FL 32301
LEIA I. CROSSWELL, P.E. NO. 99995

Exhibit 920-1
Soil Survey
Date: 6/30/2023

DATE	REVISIONS		DESCRIPTION	DATE	DESCRIPTION	PROFESSIONAL ENGINEER	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SOIL SURVEY	SHEET NO.
	DATE	DESCRIPTION					ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
			LEIA I. CROSSWELL, P.E. LICENSE NUMBER: 99995 SOIL SURVEY, INC. 321 EAST 2ND STREET TALLAHASSEE, FL 32301				SR 22	BAY	123456-1-52-01		GR-1