

10/25/2023 7:54:16 AM RD960DL
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DATE OF SURVEY: 2/15/2018-5/1/2018
SURVEY MADE BY: SOIL SURVEY, INC.
SUBMITTED BY: LEIA I. CROSSWELL, P.E.
DISTRICT: THREE

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION
MATERIALS AND RESEARCH

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

ORGANIC CONTENT			MOISTURE CONTENT		SIEVE ANALYSIS RESULTS						ATTERBERG LIMITS (%)				DESCRIPTION	CORROSION TEST RESULTS				
STRATUM NO.	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		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	--	--	--	--	--

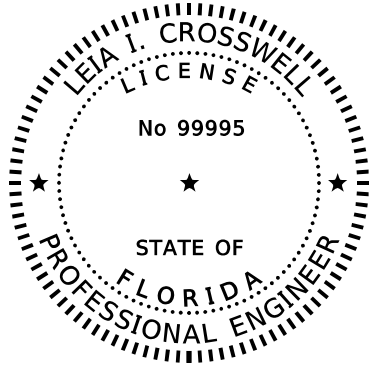
NOTES:

- THE MATERIAL FROM STRATUM 1 (A-3) APPEARS SATISFACTORY FOR USE IN THE EMBANKMENT WHEN UTILIZED IN ACCORDANCE WITH STANDARD PLANS, INDEX 120-001.
- 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.
- 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.
- 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.
- 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.
- 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: 1/1/2024

REVISIONS				PROFESSIONAL ENGINEER		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SOIL SURVEY	SHEET NO.
DATE	DESCRIPTION		DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
						SR 22	BAY	123456-1-52-01		GR-1

LEIA I. CROSSWELL, P.E.
LICENSE NUMBER: 99995
SOIL SURVEY, INC.
321 EAST 2ND STREET
TALLAHASSEE, FL 32301