

**STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION
MATERIALS AND RESEARCH**

DATE OF SURVEY : 2/15/2015-5/1/2015
 SURVEY MADE BY : HARTFORD TESTING COMPANY
 SUBMITTED BY : LARRY BALLARD, P.E.

PROJECT NAME: _____

FINANCIAL PROJECT ID : _____

DISTRICT : 3
 ROAD NO : SR 22
 COUNTY : BAY

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			SIEVE ANALYSIS RESULTS % PASS						ATTERBERG LIMITS (%)				DESCRIPTION	CORROSION TEST RESULTS					
	NO. OF TESTS	% ORGANIC	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 ohms-cm	CHLORIDE ppm	SULFATES ppm	pH	
1													N.P.	ROCK BASE, ASPHALTIC CONCRETE						
2				4	87-98	77-93	59-82	44-55	3-10				N.P.	A-3	SUBGRADE, GRAY & TAN SAND W/TRACE SILT, LIMEROCK & SHELL					
3	7	3-4	8-20	7	94-100	86-94	65-71	34-45	15-21				N.P.	A-2-4	FILL, DARK BROWN SAND W/SOME SILT & TRACE LIMEROCK	7	3400-4300	40-60	18-72	6.4-8.3
4	3	1-2	15-25	4	84-100	71-93	60-90	53-82	37-45	4	25-38	5-9	A-4	GRAY AND BROWN SILTY SAND W/TRACE CLAY AND LIMESTONE FRAGMENTS	4	2300-2600	60-120	84-96	8.4-8.9	
5				3	100	99-100	96-98	75-80	30-34	3	42-44	11-15	A-2-7	TAN AND LIGHT GRAY SILTY SAND W/SOME CLAY AND TRACE SHELL	3	6600-8000	60-120	156-216	7.5-8.2	
6	3	18-40	20-60						30-46	3	25-33	10-15	A-8	MUCK, ORGANIC DARK BROWN SILTY SAND W/SOME CLAY						
7				3	100	88-92	73-79	60-69	51-55	3	55-61	38-53	A-7	YELLOW AND GRAY SILTY SAND CLAY						
8	3	16-20	20-58	3	99-100	97-99	88-97	77-80	10-15				N.P.	A-8	MUCK, BROWN SAND W/SOME ORGANIC AND TRACE SHELL	3	2000-3500	120	120	4.6-5.2
9														NATURAL LIMESTONE						

EMBANKMENT AND SUBGRADE MATERIAL
 STRATA BOUNDARIES ARE APPROXIMATE MAKE FINAL CHECK AFTER GRADING
 ▽ - WATER TABLE ENCOUNTERED
 GNE - GROUND WATER NOT ENCOUNTERED

The material from Stratum Number 1 is Rock Base under Asphaltic Concrete.

The material from Stratum Number 2 appears satisfactory for use in the embankment when utilized in accordance with Index 505.

The material from Stratum Number 3 appears satisfactory for use in the embankment when utilized in accordance with Index 505. 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. This material may not be used in the subgrade portion of the roadbed due to its organic content.

The materials from Stratum Numbers 4 and 5 are plastic materials and shall be removed in accordance with Index 500. They may be placed above the existing water level at the time of construction, to within 4 feet of the proposed base. They should be placed uniformly in the lower portion of the embankment for some distances along the project rather than full depths for short distances.

The material from Stratum Numbers 6 and 8 is ORGANIC/A-8 material and shall be removed in accordance with Index 500, except where noted in the cross sections.

The material from Stratum Number 7 is Highly Plastic material and shall be removed in accordance with Index 500. It may be used within the project limits as indicated in index 505 only when excavated within the project limits and is not to be used when obtained from outside the project limits.

The material from Stratum Number 9 is the Natural Limestone Formation. Special tools and equipment may be required to excavate and/or dewater this material.

EXHIBIT RSS-1
Date: 1/1/17

REVISIONS				LARRY BALLARD, P.E. P.E. NO.: 88880 HARTFORD TESTING COMPANY 123 FIRST AVENUE TALLAHASSEE, FL 32312 CERTIFICATE OF AUTHORIZATION: 54321	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			ROADWAY SOIL SURVEY	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 22	BAY	000001-1-52-01		

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.