



Florida Department of **TRANSPORTATION**



Job Guide Schedule (JGS) & Materials Certification (MC) Review Construction Academy 2025



Materials Acceptance and Certification

Job Guide Schedule (JGS)



Generated: 9/13/2024 11:13:06 AM

Job Guide Schedule

FDOT State Materials Office, 5007 N.E. 39th Avenue, Gainesville, FL 32609 (352) 955-6600

NOTE: The requirements of the contract and/or Florida Specifications take precedence over this guide schedule.



Materials Acceptance and Certification

- JGS is a report
- MOA is in the contract documents
- JGS is a guide of the contract requirements
- When there is a contradiction, contract rules



Materials Acceptance and Certification

- JGS
 - PA reviews to ensure all assignments are being made



Materials Acceptance and Certification

- Items on JGS you don't need
- Items you need not on JGS



Materials Acceptance and Certification

- How are you going to know which materials on the JGS can be ignored?
- How will you know when one is missing?



Materials Acceptance and Certification

- MAC has two types
 - Standard
 - Nonstandard (NSJGS)



Materials Acceptance and Certification

- Standard JGS
 - Conventional Pay Item PrC contracts
 - Pay item to material association
 - Let date logic to assign Supplemental MAC Specs ONLY



Materials Acceptance and Certification

- Stan

- Co

- p

- Let date logic to assign supplemental
MAC Specs ONLY

0715 19 11 - HIGH MAST LIGHT POLE, FURNISH AND INSTALL, 80'

1 346 - Portland Cement Concrete

2 415 - Reinforcing Steel

3 925 - Curing Materials for Concrete

4 931 - Metal Accessory Materials for Concrete Pavement and Concrete Structures

5 962 - Structural Steel and Miscellaneous Metal Items (Other than Aluminum)

6 415 - Reinforcing for Concrete

7 105 - Incidental Precast Concrete Product Certification

8 346 - Structural Portland Cement Concrete

acts



Materials Acceptance and Certification

- Standard JGS
 - Project Specific requirements are **manually** assigned by the SMO
 - Special Provision
 - Technical Special Provision
 - Developmental Specification
 - Change Order
 - Plan Note



Materials Acceptance and Certification

- Only for project specific requirements that change the standard Method of Acceptance

EXCAVATION AND EMBANKMENT - DESCRIPTION - IDENTIFIED AREAS OF CONTAMINATION.

(REV 11-10-16) (FA 1-26-17) (7-22)

ARTICLE 120-1 is expanded by the following new Subarticle:

120-1.3 Identified Areas of Contamination: Certain area(s) within the limits of this project have been identified as contaminated and are delineated in the Plans. The contamination type and levels, when known, are in the specifications or in a contamination assessment report posted on the Department's website at the following URL address:
<https://ftp.fdot.gov/public/folder/HkSWIK59G0qRNsAJUh3xXg/permitsandorutilityworkschedules>.

The Department will have a Contractor qualified to perform contamination assessment and remediation working in the designated contamination areas under separate Contract (Contamination Assessment/Remediation Contractor - CAR Contractor) whose activities may include but not be limited to the following types of work:

1. Soil sampling.
2. Earth work.
3. Operating scientific field testing equipment.
4. Installation and operation of equipment for dewatering.
5. Installing sheet pile for cofferdams.
6. Treatment of water to remove any contaminants.

A staging area may be required to facilitate the CAR Contractor's operations and will be designated.

Where contamination assessment or remediation work is done simultaneously with the highway construction Contract, the assessment/remediation work period may or may not begin on the day highway construction begins and may or may not be consecutive working days. A schedule to accomplish the assessment/remediation work expeditiously will be established at the preconstruction conference. The Prime and the CAR Contractor will use this schedule as a basis for planning both work efforts. The Engineer must approve any deviation from this schedule before it occurs. Coordinate schedule changes with the CAR Contractor before approval by the Engineer. The Engineer may grant Contract Time extensions according to the provisions of 8-7.3.2.

Schedule operations to avoid intrusion into the areas designated in the Plans or in specified contaminated areas or staging areas reserved for the CAR Contractor until the established schedule dictate, unless agreed to by the CAR Contractor beforehand. Provide access to the aforementioned sites at all times during the assessment/remediation work phase. Resume normal operations in the designated area once the contamination is removed and notice to proceed is issued by the Engineer.

Pay particular attention to the provisions of 8-4.4 dealing with Coordination with other Contractors.

Materials Acceptance and Certification

INTEGRAL PILE JACKETS.

(REV 11-16-11) (FA 12-8-11) (1-16)

The following new Section is added after Section 455:

SECTION 457 INTEGRAL PILE JACKETS

457-1 Description.

Furnish, fabricate and install an integral pile jacket in accordance with the Contract Documents.

457-2 Materials.

457-2.1 Stay-In-Place Forms: Use forms composed of a durable, inert, corrosion resistant material with an interlocking joint along one or two sides that permits the form to be assembled and sealed in place around the pile. Fabricate the forms from fiberglass and polyester resins, having a minimum thickness of 1/8 inches with a minimum thickness at the corners of 3/16 inches. Ensure the form is capable of maintaining its original shape without additional support or damage when placed around a pile. Ensure the inside face of the form has no bond inhibiting agents in contact with the filler material. Provide the forms with bonded or bolted-on, non-metallic standoffs to maintain the forms in the required positions. Sandblast or score the inside surface of the forms with an abrasive material to provide a rough surface texture. Equip



Materials Acceptance and Certification

457-2.3.1 Portland Cement Grout: Use a mix design of portland cement, fine aggregate, water and an admixture containing a minimum of 940 pounds of cementitious material per cubic yard. Up to 30%, by weight of cement, may be replaced by fly ash for standard pile jackets. Do not use fly ash, slag, or silica fume for cathodic protection jackets.

Use silica sand fine aggregate meeting the requirements of Section 902.

Use portland cement meeting the requirements of Section 921.

Use admixtures meeting the requirements of Section 924, ASHTO M194, Types A and D.

Use air-entraining admixtures meeting the requirements of Section 924 and containing no chlorides or other salts corrosive to metals.

Use fly ash meeting the requirements of Section 929, ASTM C618, Type F, except that loss on ignition shall not exceed 4%.

Provide a grout filler mix with a minimum compressive strength of 5,000 psi at 28 days and a slump of 7 inches to 9 inches. Submit the design mix to the Engineer for approval by the Department before placing any grout filler.

457-2.3.2 Class IV Concrete: Use Class IV Concrete meeting the requirements of Section 346 with an adjusted slump of 7 inches to 9 inches. Reduced size coarse aggregate may be used as approved by the Engineer. Do not use fly ash, slag, or silica fume for cathodic protection jackets.

Submit the design mix to the Engineer for approval by the Department before placing any concrete filler.



Materials Acceptance and Certification

- “For Project” pay items:
 - SIGN PANEL, FURNISH & INSTALL OVERHEAD MOUNT, 51-100 SF WITH, LIGHTING, PROJECT 428358-4-52-01
 - OPTIONAL BASE- GRADED AGGREGATE, 18" FOR PROJECT 442749-1-52-01

Materials Acceptance and Certification

- Nonstandard JGS
 - Created by QC data entry for LS/DB/LAP On-system



Materials Acceptance and Certification

105-2 Additional Requirements for Lump Sum Projects.

Prepare and submit to the Engineer a project-specific list of material items and quantities to be used on the project as a Job Guide Schedule in the same format as the current Sampling, Testing, and Reporting Guide 21 calendar days prior to commencement of construction. Submit up-to-date quantities for the items on the Job Guide Schedule to the Engineer with each monthly progress estimate. The Department may not authorize payment of any progress estimate not accompanied by updated Job Guide Schedule quantities. Maintain the Job Guide Schedule throughout the project including the quantity placed since the previous submittal, and total to date quantity and any additional materials placed. Do not commence work activities that require testing until the Job Guide Schedule has been reviewed and accepted by the Engineer. At final acceptance, submit a final Job Guide Schedule that includes all materials used on the project in the same format as the monthly reports.

Materials Acceptance and Certification

- Nonstandard JGS
 - Materials come from a user
 - Users can pick the wrong material



Materials Acceptance and Certification

Add Material ✕

Material	Estimated Quantity	Unit Of Measure
<input type="text" value="346"/> ★	<input type="text"/> ★	<input type="text" value="Start typing code value"/> ★
<div><div>346 - Portland Cement Concrete</div><div>346 - Structural Portland Cement Concrete</div></div>		

Save



Materials Acceptance and Certification

Add Material

Material

530

530 - Riprap

530 - Riprap and Articulating Concrete Block Revetment Systems

530 - Revetment Systems

Estimated Quantity

Unit Of Measure

Start typing code value

Save



Materials Acceptance and Certification

Add Material

Material

285



Estimated Quantity



Unit Of Measure

Start typing code value



285 - Optional Base Course

No

Save



Materials Acceptance and Certification

- Nonstandard JGS
 - Let Date Logic for Supplemental MAC Specs ONLY



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Materials Acceptance and Certification

Project
201214-3-52-01: I-4 (SR 400) AT SR 559 INTERCHANGE

Company

Materials [14]

	Material	Estimated Quantity	Current To Date Quantity	Unit of Measure	Last Updated On	Notes
1	120 - Excavation and Embankment	128,719.2	128,719.2	Cubic Yard(s)	9/30/2016	
2	160 - Stabilizing	93,525	93,525	Square Yards	9/30/2016	
3	200 - Rock Base	80,836	80,836	Square Yards	9/30/2016	
4	285 - Optional Base Course	80,836	80,836	Square Yards	2/23/2017	
5	330 - Hot Mix Asphalt – General Construction Requirements	0	0	Ton(s)	10/14/2016	
6	334 - Superpave Asphalt Concrete	15,876	16,540.3	Ton(s)	9/30/2016	
7	337 - Asphalt Concrete Friction Courses	5,500	5,585.3	Ton(s)	11/21/2016	
8	346 - Portland Cement Concrete	1,921	2,441.5	Cubic Yard(s)	9/30/2016	
9	415 - Reinforcing for Concrete	241.57	241.57	Ton(s)	9/30/2016	
10	548 - Retaining Wall Systems	4,388	4,388	Cubic Yard(s)	9/30/2016	
11	550 - Fencing	875	875	Linear Feet	2/24/2017	
12	962 - Structural Steel and Miscellaneous Metal Items (Other than Aluminum)	68	68	Each	2/27/2017	
13	971 - Pavement Marking Materials	11	11	Mile(s)	2/23/2017	
14	975 - Structural Coating Materials	690	690	Gallon(s)	2/24/2017	



Materials Acceptance and Certification

- Nonstandard JGS
 - Project Specific Requirements

Materials Acceptance and Certification

Non-PrC jobs
don't have a let date



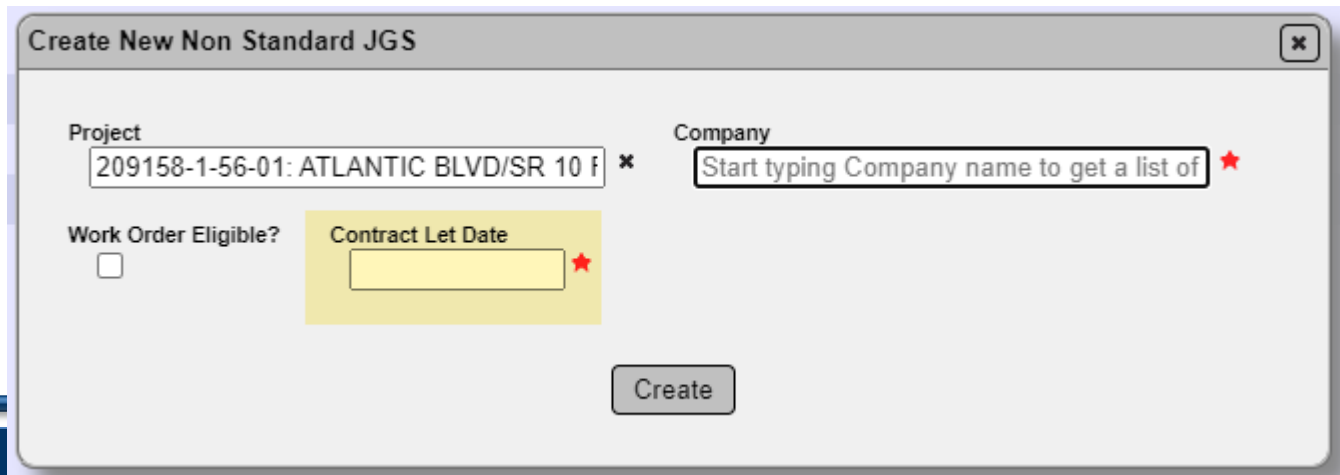


Materials Acceptance and Certification

- On older NSJGS - need to coordinate with SMO
 - Need to add project specific entries for all the materials so the MAC Specs don't "jump"

Materials Acceptance and Certification

- On a new NSJGS for non PrC contract, need to coordinate with a DAC

A screenshot of a web form titled "Create New Non Standard JGS". The form has a title bar with a close button (X). It contains several input fields: "Project" with the value "209158-1-56-01: ATLANTIC BLVD/SR 10 f" and a red asterisk; "Company" with the placeholder text "Start typing Company name to get a list of" and a red asterisk; "Work Order Eligible?" with an unchecked checkbox; and "Contract Let Date" with an empty date field and a red asterisk. A yellow highlight is around the "Contract Let Date" field. At the bottom center is a "Create" button.

Create New Non Standard JGS

Project 209158-1-56-01: ATLANTIC BLVD/SR 10 f *

Company Start typing Company name to get a list of *

Work Order Eligible? ☐

Contract Let Date *

Create



Materials Acceptance and Certification

- Speaking of Work Order
 - NSJGS can be created per work order
 - Work Order NSJGS can have different “let dates” on the same project
 - Coordinate with DMRO Earthwork personnel on Work Order jobs
 - WO NSJGS needs to be created before the ERS Project

Materials Acceptance and Certification

MC Review





Materials Acceptance and Certification

- The Materials Acceptance and **Certification** system, MAC, is designed around the requirements for Final Project Materials Certification.



Materials Acceptance and Certification

- Certification is simply an audit of the material acceptance decisions made on the contract

Topic No. 700-000-000
Construction Project Administration Manual
Project Documentation

Effective: July 1, 2002
Revised: October 3, 2019

5.8.6 Method of Acceptance

There are three methods of material acceptance: 1) certification; 2) visual inspection; and 3) sampling and testing.



Florida Department of Transportation

RON DESANTIS
GOVERNOR

14200 West SR-84
Davie, FLORIDA 33325

JARED W. PERDUE, P.E.
SECRETARY

● **Appendix A to Subpart B of Part 637—Guide Letter of Certification by State Engineer**

Date _____

Project No. _____

This is to certify that:

The results of the tests used in the acceptance program indicate that the materials incorporated in the construction work, and the construction operations controlled by sampling and testing, were in conformity with the approved plans and specifications. ~~(The following sentence should be added if the IA testing frequencies are based on project quantities. All independent assurance samples and tests are within tolerance limits of the samples and tests that are used in the acceptance program.)~~

Exceptions to the plans and specifications are explained on the back hereof (or on attached sheet).

Director of STD Laboratory or other appropriate STD Official.

Michael Kim, P.E.

Rudy Powell Jr., P.E.



Florida Department of Transportation

RON DESANTIS
GOVERNOR

14200 West SR-84
Davie, FLORIDA 33325

JARED W. PERDUE, P.E.
SECRETARY

OCTOBER 04, 2011

Mr. Matt Carlock, P.E.
District Four Construction Engineer
3400 West Commercial Boulevard
Fort Lauderdale, FLORIDA 33309

Dear Mr. Carlock:

Subject:	Contract No:	E4U76
	Financial Project ID:	446141-1-52-01
	Federal Project ID:	D420085B
	County:	BROWARD
	Road No:	SAFETY DB PUSH BUTTON FOR WWD DEVICES AT INTERSTATE RAMPS

This is to certify that:

The results of the tests on required acceptance samples indicate the materials incorporated in the construction work and operations controlled by sampling and testing were in conformity with the approved plans and specifications.

There are no known exceptions to this certificate.

Very truly yours,

Michael Kim, P.E.

Rudy Powell Jr., P.E.



Materials Acceptance and Certification

Topic No.: 675-000-000
Materials Manual
Quality Assurance

Effective: March 1, 2000
Revised: February 1, 2018

Section 5.4

FINAL PROJECT MATERIAL CERTIFICATION

5.4.1 PURPOSE

To describe the Material Certification process requirements.

5.4.2 AUTHORITY

Sections 334.044(2), 334.044(10) (a) and 334.048 Florida Statutes

5.4.3 SCOPE

Offices affected by this procedure include the State Materials Office (SMO), State Construction Office (SCO) District Construction Offices (DCOs) and District Materials and Research Offices (DMROs).

5.4.4 REFERENCES

FEDERAL-AID POLICY GUIDE (FAPG), 23CFR, Subchapter G - Engineering and Traffic Operations, Part 637 - Construction Inspection and Approval, Subpart B - Quality Assurance Procedures for Construction

5.4.5 GENERAL INFORMATION

Sampling, testing and reporting requirements are applicable for both Federal-

Topic No. 700-000-000
Construction Project Administration Manual
Project Documentation

Effective: July 1, 2002
Revised: October 3, 2019

Section 5.8 CONTROL OF MATERIALS

5.8.1 Purpose

To establish a uniform standard for the control of materials on construction projects.

5.8.2 Authority

Sections 20.23(3)(a) and 334.048(3), [Florida Statutes](#)

5.8.3 References

[Standard Specifications for Road and Bridge Construction](#)

[Federal-Aid Policy Guide, 23 Code of Federal Regulations \(CFR\) 637](#)

[Procedure No. 675-000-000, Materials Manual](#)

5.8.4 General

The **Contract Documents** contain **Specifications** and guidance relevant to the acceptance of all materials incorporated into a project. The Job Guide Schedule (JGS), included in the Materials Acceptance and Certification system (MAC), indicates who samples and tests each of these materials and at what frequency. The Final Project



Materials Acceptance and Certification

Topic No. 700-000-000
Construction Project Administration Manual
Project Documentation

Effective: July 1, 2002
Revised: January 31, 2023

(A) Resident Level Responsibilities

The Project Administrator (PA) is responsible for reviewing the **Contract Documents** to ensure the JGS is correct and complete. If there are missing material assignments, the PA must contact the SMO technical unit to ensure the JGS is complete. Project specific materials are included in the **Special Provisions, Technical Special Provisions, Developmental Specifications, Plan Notes** and **Change Orders** that designate a method of acceptance. If any exist, the PA is responsible to ensure that the JGS includes these entries.



Materials Acceptance and Certification

- MC Reviewer needs to initiate review when project begins
- MAC sends findings to the MC Review process

Project
415782-9-52-01: SR 263 CAPITAL CIRCLE FROM CR 2203 SPRINGHILL RD TO SR 371 ORANGE AVE

Managing District
District 3

Status
Checked In

Contract
T3671: CRS CONTRACTS [M OF TALLAHASSEE, INC.]

Other Projects on this Contract

- 415782-9-52-02: SR 263 CAPITAL CIRCLE FROM CR 2203 SPRINGHILL RD TO SR 371 ORANGE AVE
- 415782-9-56-02: SR 263 CAPITAL CIRCLE FROM CR 2203 SPRINGHILL RD TO SR 371 ORANGE AVE

In Final Review
No

Findings [102]

☐ Excluded [56] ☒ MC Resolved [26] ☒ Promoted to MAR [4] ☒ MAR Resolved [9] ☒ Open [0] ☒ Responded [3] ☒ Return for Response Clarification [0] ☒ Submitted [4]

Finding	Description	Created By	Comparison Package	Sample	Sample Test	Status	Status Date	Recommendation	Resolution
1100390	Sample 2401404088 has failed straightedge test	System		2401404088 QC	FM 5-509 Smoothness by 15' Rolling or Manual Straightedge	Promoted to MAR	11/24/2024		
1180389	Sample 2401391619 has failed straightedge test	System		2401391619 QC	FM 5-509 Smoothness by 15' Rolling or Manual Straightedge	Promoted to MAR	7/24/2024		
1180385	Sample 2301273584 has a failing result on required Test ASTM C39 Compressive Strength	System		2301273584 QC	ASTM C39 Compressive Strength	MC Resolved	7/23/2024		
1180353	183583 [2301228332 QC-VT] does not compare	System	183583 [2301228332 QC-VT]	2301228332 QC		Responded	7/24/2024		
1154014	Sample 2401379614 has failed straightedge test	System		2401379614 QC	FM 5-509 Smoothness by 15' Rolling or Manual Straightedge	Promoted to MAR	4/22/2024		
1154011	Sample 2401335031 has failed straightedge test	System		2401335031 QC	FM 5-509 Smoothness by 15' Rolling or Manual Straightedge	MAR	5/2/2024	Remove and Replace [Final]	
1154010	Sample 2401317025 has failed straightedge test	System		2401317025 QC	FM 5-509 Smoothness by 15' Rolling or Manual Straightedge	MAR	5/2/2024	Remove and Replace [Final]	
1117434	Sample 2301215605 has failed straightedge test	System		2301215605 QC	FM 5-509 Smoothness by 15' Rolling or Manual Straightedge	MAR	5/2/2024	Leave in Place Full Payment [Final]	
1117432	Sample 2301197870 has failed straightedge test	System		2301197870 QC	FM 5-509 Smoothness by 15' Rolling or Manual Straightedge	MAR	5/2/2024	Leave in Place Full Payment [Final]	
1110405	Comparison is required by the MAC Spec for Sample 2301234404 but was not performed	System		2301234404 VT		MC Resolved	11/30/2023		
1110402	Comparison is required by the MAC Spec for Sample 2301228327 but was not performed	System		2301228327 QC		MC Resolved	11/17/2023		
1110401	Comparison is required by the MAC Spec for Sample 2301227419 but was not performed	System		2301227419 QC		MC Resolved	11/17/2023		
1110400	Comparison is required by the MAC Spec for Sample 2301227413 but was not performed	System		2301227413 QC		MC Resolved	11/17/2023		

Showing 1 to 46 of 46 [Export Results](#)

ERS Findings [62]

☐ Excluded [26] ☒ MC Resolved [1] ☒ Promoted to MAR [0] ☒ MAR Resolved [0] ☒ Open [1] ☒ Responded [0] ☒ Return for Response Clarification [1] ☒ Submitted [33]

Finding	Description	Created By	Comparison Package	Sample	Sample Test	Status	Status Date	Recommendation
1273811	Sample 2401413303 has a failing result on required Test ERS: FM 1-T 238 Nuclear Density	System		2401413303 QC	ERS: FM 1-T 238 Nuclear Density	Submitted	8/13/2024	

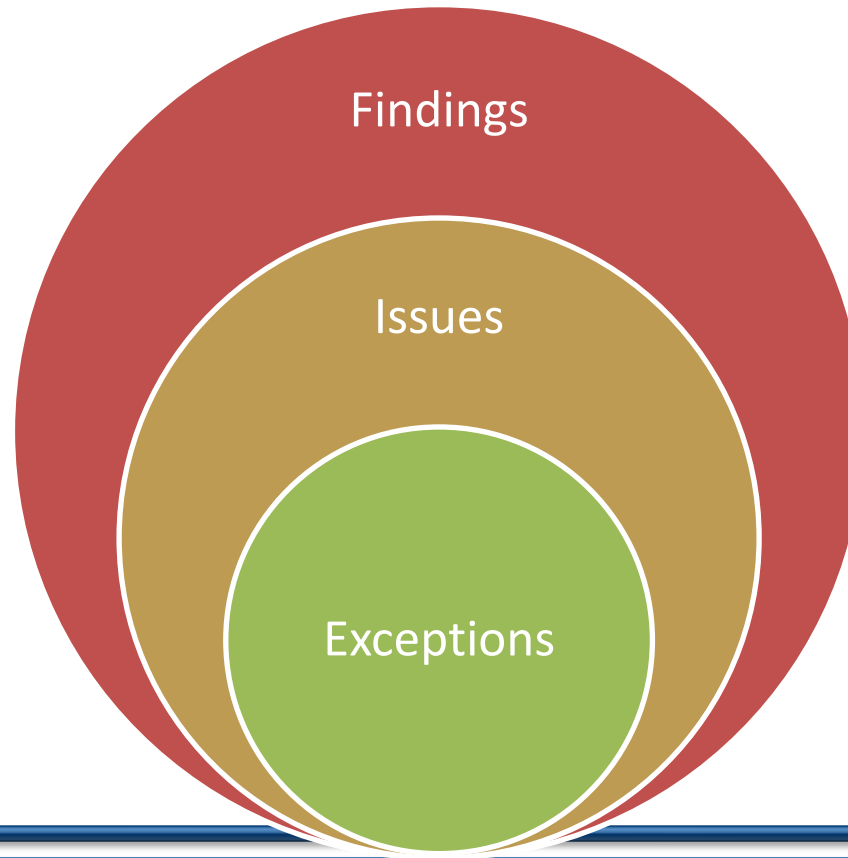


Materials Acceptance and Certification

- What is a finding?
 - Automatic findings
 - Manual Findings
- What is an issue?
- What is an Exception?



Materials Acceptance and Certification





Materials Acceptance and Certification

- Exception 1 = Non-Standard Material
 - Failing Test Results
 - Missing Reports



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Materials Acceptance and Certification

1039594 Sample 2301111295 has a failing result on required Test FM 1-T 267 Organic Content System 2301111295 VT FM 1-T 267 Organic Content MAR Resolved 5/4/2023 Material Rejected for Use [Final]

View

Test
FM 1-T 267 Organic Content

Test

Date Test Performed
4/19/2023

Crucible Number	Specimen Name	Mass of Crucible (g)	Mass of Soil + Crucible (g)	Mass After Ignition (g)	Organic Content (%)
		A	B	C	
sx	L	25.27	45.35	44.73	3.1
7	bugos	22.23	42.07	41.47	3.0
8	SAM	24.18	44.25	43.68	2.8

Does not meet target/limit [Organic Content <= 3]

Average Organic Content (%) 3.0

Does not meet target/limit [Average Organic Content <= 2]

Test Notes

FM 1-T 267 Organic Content

4 Initial Test Lab I01004 O16110161 Fail * Test Complete Required View



Materials Acceptance and Certification

- Exception 2 = Minimum Frequency
 - Required tests not performed
 - Required comparison not performed
 - Required resolution not performed
 - Not enough samples



Materials Acceptance and Certification

Comparison Package ID 218849	Comparison Definition Compressive Strength	Comparison Type Includes Original Sample	Comparison Status Incomplete Package	Incomplete Comparison Package Reason Missing or Damaged VT Sample
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Spec 346 - Structural Portland Cement Concrete, Supplemental Specification, 01/2020, v1.14	Last Updated By Jacoah Jackson	Last Updated On 7/10/2024
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Original Sample 2301300516	Sample Level QC	FDOT Sample Number CC44125Q	LOT # 125	Project(s) 201032-5-52-01
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1243641	Comparison Package 218849 is required but was marked Incomplete	System	218849	2301300516 QC	MAR Resolved	7/16/2024	No EAR [Final]	Leave in Place [Final]
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Florida Department of TRANSPORTATION



Materials Acceptance and Certification

Concrete Sample Number – Lot Number Report

Lot #	FDOT Sample #	Level	Production Facility ID	Sample ID	Date Sample Taken	Sample Status	Comparison Package ID	Comparison Status	Quantity Represented
Mix Design: 01-1188-03			Category: Class II Bridge Deck (4500 PSI) / Conventional						
Financial Project ID: [REDACTED]									
Material ID: 346									
29	CC20029Q	QC	13-489	1600017858	10/19/2016	Finalized	4429	Compares	40 Cubic Yard(s)
30	CC20030Q	QC	13-489	1600017860	10/19/2016	Finalized	4429	Compares	30 Cubic Yard(s)
31	CC20031Q	QC	13-489	1600020470	10/27/2016	Finalized	4429	Compares	50 Cubic Yard(s)
29-32	CC20031v	VT	13-489	1600020508	10/27/2016	Finalized	4429	Compares	50 Cubic Yard(s)
32	CC20032Q	QC	13-489	1600020472	10/27/2016	Finalized	4429	Compares	20 Cubic Yard(s)
33	CC20033Q	QC	13-489	1600023564	11/3/2016	Finalized	8478	Compares	26 Cubic Yard(s)
34	CC20034Q	QC	13-489	1600024225	11/4/2016	Finalized	8478	Compares	26 Cubic Yard(s)
35	CC20035Q	QC	13-489	1700072239	3/11/2017	Finalized	8478	Compares	50 Cubic Yard(s)
33-36	CC20035v	VT	13-489	1700072251	3/11/2017	Finalized	8478	Compares	50 Cubic Yard(s)
36	CC20036Q	QC	13-489	1700072240	3/11/2017	Finalized	8478	Compares	50 Cubic Yard(s)
37	CC20037Q	QC	13-489	1700072241	3/11/2017	Finalized	8479	Compares	50 Cubic Yard(s)
38	CC20038Q	QC	13-489	1700072242	3/11/2017	Finalized	8479	Compares	50 Cubic Yard(s)
37-40	CC20038v	VT	13-489	1700072260	3/11/2017	Finalized	8479	Compares	50 Cubic Yard(s)
39	CC20039Q	QC	13-489	1700072243	3/11/2017	Finalized	8479	Compares	50 Cubic Yard(s)
40	CC20040Q	QC	13-489	1700072245	3/11/2017	Finalized	8479	Compares	41 Cubic Yard(s)
41	CC20041Q	QC	13-489	1700074639	3/16/2017	Finalized	8480	Compares	50 Cubic Yard(s)
42	CC20042Q	QC	13-489	1700074642	3/17/2017	Finalized	8480	Compares	50 Cubic Yard(s)
41-44	CC20042v	VT	13-489	1700074359	3/17/2017	Finalized	8480	Compares	50 Cubic Yard(s)
43	CC20043Q	QC	13-489	1700074644	3/17/2017	Finalized	8480	Compares	50 Cubic Yard(s)
44	CC20044Q	QC	13-489	1700074646	3/17/2017	Finalized	8480	Compares	50 Cubic Yard(s)
45	CC20045Q	QC	13-489	1700074649	3/17/2017	Finalized			50 Cubic Yard(s)
46	CC20046Q	QC	13-489	1700074651	3/17/2017	Finalized	9766	Incomplete Package	40 Cubic Yard(s)



Florida Department of TRANSPORTATION



9	CC40009Q	QC
10	CC40010Q	QC
11	CC40011Q	QC
12	CC40012Q	QC
13	CC40013Q	QC
9 - 12	CC40013V	VT
14	CC40014Q	QC
15	CC40015Q	QC
16	CC40016Q	QC
13 - 16	CC40016V	VT
17	CC40017Q	QC
17-20	CC40017V	VT
18	CC40018Q	QC
19	CC40019Q	QC
20	CC40020Q	QC



Date Ran: 1/26/2024 8:35:18 AM

Project: 211365_6_5_8_01

Managing District: 02

Material	Category	Material Spec Type	Method of Acceptance	MAC Sample ID	Sample Status	Date Sample Finalized
932 - Bearing Pads/Structural Bridge Pads (Lot size Greater than 10), Certified Test Report, 07/2017, v6.7						
	Nonmetallic Accessory Materials for Concrete Pavement and Concrete Structures	Supplemental Specification	Certified Test Report	1134496	Finalized	2023-06-08
932 - Bearing Pads/Structural Bridge Pads (Lot size Greater than 10), Certified Test Report, [1], v1.2						
	Nonmetallic Accessory Materials for Concrete Pavement and Concrete Structures	Plan Note	Certified Test Report			
932 - Bearing Pads/Structural Bridge Pads (Lot size 10 or Less), Certification, [1], v1.2						
	Nonmetallic Accessory Materials for Concrete Pavement and Concrete Structures	Plan Note	Certification			
932 - Bearing Pads/Ancillary Structural Pads, Certification, [1], v1.2						
	Nonmetallic Accessory Materials for Concrete Pavement and Concrete Structures	Plan Note	Certification			
932 - Bearing Pads/Ancillary Railing Pads, Certification, [1], v1.2						
	Nonmetallic Accessory Materials for Concrete Pavement and Concrete Structures	Plan Note	Certification			
962 - Miscellaneous Metal Items, Certified Mill Analysis, 01/2009, v1.3						
	Structural Steel and Miscellaneous Metal Items (Other than Aluminum)	Supplemental Specification	Certified Mill Analysis	1089043	Finalized	2023-03-13
	Structural Steel and Miscellaneous Metal Items (Other than Aluminum)	Supplemental Specification	Certified Mill Analysis	1089053	Finalized	2023-03-13
	Structural Steel and Miscellaneous Metal Items (Other than Aluminum)	Supplemental Specification	Certified Mill Analysis	1120884	Finalized	2023-05-02
	Structural Steel and Miscellaneous Metal Items (Other than Aluminum)	Supplemental Specification	Certified Mill Analysis	1129682	Finalized	2023-05-09
	Structural Steel and Miscellaneous Metal Items (Other than Aluminum)	Supplemental Specification	Certified Mill Analysis	1129800	Finalized	2023-05-09
	Structural Steel and Miscellaneous Metal Items (Other than Aluminum)	Supplemental Specification	Certified Mill Analysis	1129801	Finalized	2023-05-09
	Structural Steel and Miscellaneous Metal Items (Other than Aluminum)	Supplemental Specification	Certified Mill Analysis	1129802	Finalized	2023-05-09
	Structural Steel and Miscellaneous Metal Items (Other than Aluminum)	Supplemental Specification	Certified Mill Analysis	1129803	Finalized	2023-05-09
	Structural Steel and Miscellaneous Metal Items (Other than Aluminum)	Supplemental Specification	Certified Mill Analysis	1141126	Finalized	2023-05-25
	Structural Steel and Miscellaneous Metal Items (Other than Aluminum)	Supplemental Specification	Certified Mill Analysis	1156026	Finalized	2023-06-13
	Structural Steel and Miscellaneous Metal Items (Other than Aluminum)	Supplemental Specification	Certified Mill Analysis	1192337	Finalized	2023-08-08
	Structural Steel and Miscellaneous Metal Items (Other than Aluminum)	Supplemental Specification	Certified Mill Analysis	1192339	Finalized	2023-08-08
	Structural Steel and Miscellaneous Metal Items (Other than Aluminum)	Supplemental Specification	Certified Mill Analysis	1192340	Finalized	2023-08-08



Materials Acceptance and Certification

- Exception Category 3 = Qualifications
 - Technicians
 - Laboratories
 - Production Facilities
 - Manual Findings



Materials Acceptance and Certification

Associated Test Tab MAC Sample 1533391

ASTM C39 Compressive Strength

5	Initial Test	Lab	I04029	Susan Musselman [21494] *	Pass	Test Complete	P
---	--------------	-----	--------	---------------------------	------	---------------	---

Showing 1 to 5 of 5

Findings List – 423251-5-52-01

1647203	Tester [Susan Musselman [21494]] on Sample 2401533931/Test ASTM C39 Compressive Strength is not Qualified	System	2401533931 QC	ASTM C39 Compressive Strength	Submitted
---------	---	--------	---------------	-------------------------------	-----------



Materials Acceptance and Certification

Associated Test Tab MAC Sample 1882166

ASTM C39 Compressive Strength

5	Initial Test	Lab	109099 *	Aut [30]	Pass	Test Complete
---	--------------	-----	----------	----------	------	---------------

Findings List – 423251-5-52-01

1647245	Laboratory 109099 - ABC Roads and Bridges testing Sample 2501882166/Test ASTM C39 Compressive Strength is not Qualified	System	2501882166 QC	ASTM C39 Compressive Strength
---------	---	--------	---------------	-------------------------------



Materials Acceptance and Certification

Add Manual Finding

Finding Type

Description

No more than one sentence, please.

Comparison Package

Sample

Create



Materials Acceptance and Certification

Add Manual Finding

Finding Type

Other ▼

Description

Contractor placed pipe that was produced by a plant with no
Producer QC Plan.

Comparison Package

▼

Sample

▼

Create



Materials Acceptance and Certification

- Respond to Findings
- Process MARs



Materials Acceptance and Certification

- Respond to Findings

Click to Collapse

Findings [6] Click to Collapse

[Return to List](#)

Finding	Finding Type	Description	Status	Submit Response	Exclude	Relate to Other Findings
1205933	System Generated	Project 447432-1-52-02 Work Order WO02 is missing an initiated JGS template	Submitted [System Generated]			

Response Text

35 of 2000

This is a PA response to a finding.
I

Create

Click to Expand

Click to Expand



Materials Acceptance and Certification

936756 →	Comparison is required by the MAC Spec for Sample 2100806578 but was not performed	System	2100806578 QC		Submitted
936755	Sample 2100804368 is not Finalized	System	2100804368 QC		Submitted
936754	Sample 2100795829 is not Finalized	System	2100795829 QC		Submitted
936753	Sample 2100789940 has a failing result on required Test ASTM C39 Compressive Strength	System	2100789940 QC	ASTM C39 Compressive Strength	Submitted
936752	Sample 2100789940 is not Finalized	System	2100789940 QC		Submitted
936751	Sampler [M24578064] on Sample 2100789939 is not Qualified	System	2100789939 QC		Submitted
936750	Sample 2100789939 is not Finalized	System	2100789939 QC		Submitted
936749	Sample 2100788790 is not Finalized	System	2100788790 VT		Submitted
936748 →	Comparison Package 126848 is required but was marked Incomplete	System	126848	2200904696 QC	Submitted



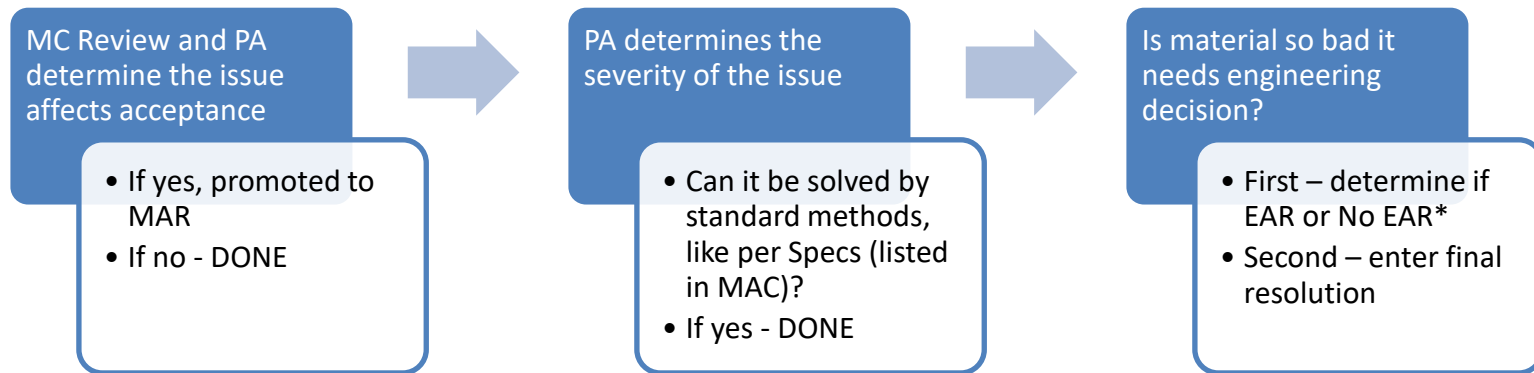
Materials Acceptance and Certification

5.8.7 Materials Acceptance Resolution

If a material is designated by the Materials Certification Review personnel to require resolution of the material acceptance, it will be promoted to the Materials Acceptance Resolution (MAR) process in MAC. All materials with acceptance issues will be promoted to MAR and final resolution determined. The life cycle of the issue will depend on the original issue and the nature of the material acceptance needing resolution. Some issues can be resolved directly by the PA without additional input. Some issues will require input from the District Materials and Research Engineer (DMRE), the District Construction Engineer (DCE), and the Director, Office of Construction (DOC). This procedure is outlined in the ***Material Acceptance Resolution Flow Chart*** ([Attachment 5.8-1](#)).

Materials Acceptance and Certification

Overview of the MAR Process





Materials Acceptance and Certification

Findings [70] Click to Collapse

[Return to List](#)

Update

Finding Type	Description	Sample	FDOT Sample Number	Sample Package Test	Status
System Generated	Tester [F12345678] on Sample 1600013594/Test ASTM C39 Compressive Strength is not Qualified	1600013594 QC	CC40001Q	ASTM C39 Compressive Strength	Promoted to MAR

Current Recommendation
Recommendation has not yet been made by District Materials Research Engineer

Pay Items

Sample Info

Click to Expand

Responses [1]

Click to Expand

Recommendations [2]

Click to Expand

Resolutions [0]

Click to Expand

Locations [0]

Click to Expand

Documents [0]

Click to Expand

Comments [0]

Click to Expand



Materials Acceptance and Certification

- What is the difference between a recommendation & a resolution?

Materials Acceptance and Certification

- There are nine (9) recommendations
- Six (6) are also final resolutions that can be made by the PA



Materials Acceptance and Certification

Set Recommendation

Recommendation

 ▼ ★

Asphalt Follow Up Sample Passed

Complete Removal and Replacement

Fill

Material Rejected for Use

No Action Required per Materials Manual 3.1

No EAR

No EAR - Delineation

Pay Reduction Per Specification

Reworked and Remixed



Materials Acceptance and Certification

3.1.5.1.1.4 Failing Test Results

In the event the material fails to meet the **Specifications** then a comparison of the IV test results and the Contractor's (PC) test results, if available, will be made. If the comparison of the IV and PC results of the property in question meets the precision values as specified in **Specifications Section 334**, or the Contractor's test results are not available, the IV test results are determined to be valid. If the comparison of the results of the property in question does not meet the precision values for the material property in question, then the **IV Check Sample** is tested for that material property by a different IV technician than the IV technician who tested the first sample.



Materials Acceptance and Certification

Set Recommendation

Recommendation

▼ ★

- Asphalt Follow Up Sample Passed
- Complete Removal and Replacement
- Fill EAR
- Material Rejected for Use
- No Action Required per Materials Manual 3.1
- No EAR
- No EAR - Delineation
- Pay Reduction Per Specification
- Reworked and Remixed

Materials Acceptance and Certification

3.1.5.4.1 Assessment of Defective Materials

2) Delineation:

The following guidelines should be used when reviewing a proposed delineation scope based on the particular failure, to determine if any areas require removal and replacement:

A) High Air Voids (Fig. 2):

- 1) If air voids $> 6.0\%$ and $\leq 7.5\%$ and all subplot cores (includes QC and IV cores if applicable) are $\geq 89.5\%$ Gmm, no further action is required.



Materials Acceptance and Certification

- If EAR, No EAR, or No EAR Delineation (if the Specification allows resolution by delineation) is selected, 2nd process is needed to determine final resolution



Materials Acceptance and Certification

- PA
- DMRE
- DCE
 - DOC

Materials Acceptance and Certification

- Resolution options:

Resolution

 v ★

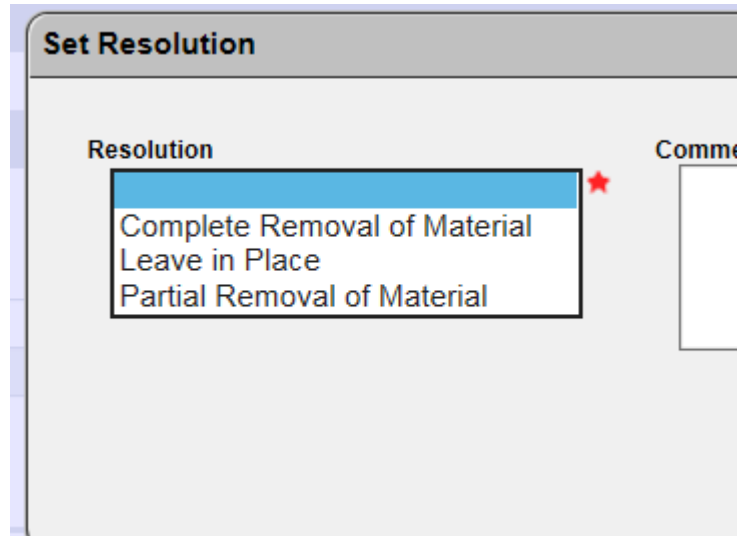
Complete Removal of Material

Leave in Place

Partial Removal of Material

Materials Acceptance and Certification

- Resolution options:

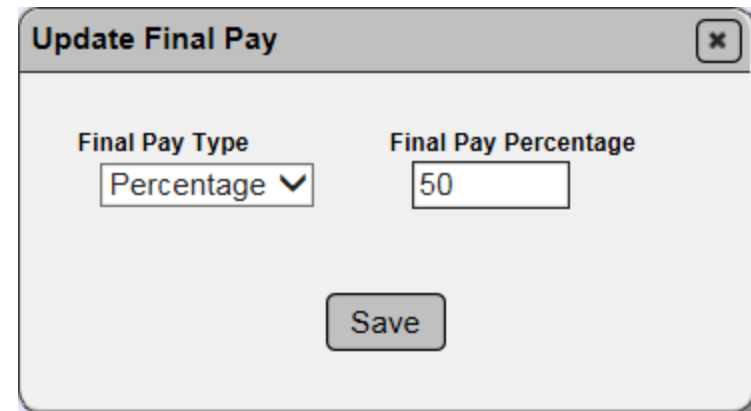
A screenshot of a software dialog box titled "Set Resolution". It contains a label "Resolution" and a list box with three options: "Complete Removal of Material", "Leave in Place", and "Partial Removal of Material". The first option is selected and highlighted in blue. A red star icon is visible to the right of the list box. To the right of the list box is a label "Comme" followed by a text input field.

Set Resolution

Resolution

- Complete Removal of Material
- Leave in Place
- Partial Removal of Material

Comme

A screenshot of a software dialog box titled "Update Final Pay". It contains two labels: "Final Pay Type" and "Final Pay Percentage". Under "Final Pay Type" is a dropdown menu showing "Percentage" with a downward arrow. Under "Final Pay Percentage" is a text input field containing the number "50". At the bottom center is a "Save" button. A close button (X) is in the top right corner.

Update Final Pay

Final Pay Type

Percentage ▼

Final Pay Percentage

50

Save



Materials Acceptance and Certification

Recommendations [3]

	Recommendation	Comment	Asphalt Sample	Final Pay (\$)	Final Pay (%)
Resident Engineer	Leave in Place No Payment				Update Final Pay
District Bituminous Engineer	Leave in Place No Payment				Update Final Pay
District Construction Engineer	Leave in Place No Payment				Update Final Pay

Resolutions [0]

No results found

- DISTRICT BITUMINOUS ENGINEER INSTEAD DISTRICT Materials and Research Engineer
- Recommendation is Final Resolution



Materials Acceptance and Certification

- Location Information
 - PA fills it out
 - After the resolution



Materials Acceptance and Certification

The Table below is a list of MAR Recommendations that needs GPS locations entered in MAC.

Recommendation	GPS Location Required?
EAR	Yes, if left in place
No Action Required per Materials Manual 3.1	Yes
No EAR	Yes, if left in place
No EAR – Delineation	Yes, if left in place
Pay reduction Per Specification	Yes



Materials Acceptance and Certification

Add Location of Representative Material

Rci Lanes

L1 x L3 x L4 x

From Station

100+00

To Station

275+45

Latitude

21.012578

Longitude

-82.213457

Ending Latitude

21.032145

Ending Longitude

-82.242354

Offset Distance

Offset Direction

Reference Line

Placement Designation

Left in Place

Quantity

1,250

Unit Of Measure

Ton(s)

Save



Materials Acceptance and Certification

- For Partial Removal and Replacement
 - Enter overall area
 - Enter sub-locations for material that was removed and material that was replaced



Materials Acceptance and Certification



Overall Area = L1, L2 1+00 – 41+00 Lift 1 (1 ½")

Orange Areas were removed

Green Areas left in place

Total tonnage = 880 tons

7 entries – 1 for overall area & 6 for sub areas



Florida Department of TRANSPORTATION



Add Location of Representative Material



RCI Lanes

L1 ✕

From Station

1+00

To Station

11+50

Sub Area 1

Matches

Total Affected Quantity
880.00

Total Affected Quantity Units
Ton(s)

Accumulative Quantity
880

	RCI Lanes	From Station	To Station	Latitude	Longitude	Ending Latitude	Ending Longitude	Offset Distance	Offset Direction	Reference Line	Placement Designation	Quantity	Units
1	L1 L2	1+00	41+00	21.123456	-82.123456	21.123456	-83.391456				Partial Remove and Replace	880.00	Ton(s)
2	L1	1+00	11+50	21.123456	-81.123456	21.123456	-82.479956				Removed	115.50	Ton(s)
3	L1	11+50	31+80	21.123456	-82.479956	21.123456	-83.109256				Left in Place	223.30	Ton(s)
4	L1	31+80	41+00	21.123460	-83.109256	21.123456	-83.391456				Removed	101.20	Ton(s)
5	L2	1+00	11+90	21.123456	-81.123456	21.123456	-82.461356				Left in Place	119.90	Ton(s)
6	L2	11+90	21+45	21.123456	-82.461356	21.123456	-82.789606				Removed	105.00	Ton(s)
7	L2	21+45	41+00	21.123456	-82.789606	21.123456	-83.391456				Left in Place	215.10	Ton(s)

Save



Non Standard Materials

The QC-Sample, 5F007Q, failed to meet the minimum required AC Content. Total affected quantity was 880 tons.

- **Other: Asphalt Content Failure (Lot 19, Load #14) FDOT Sample Number 5F007Q**

Ref Material ID: 337 - Asphalt Concrete Friction Courses

Sample Level: QC

Total Quantity: 880 Ton(s)

Accumulative Quantity: 880

RCI Options (Lanes):	L1; L2	From Station:	1+00	To Station:	41+00
Beginning Latitude:	21.123456	Longitude:	-82.123456		
Ending Latitude:	21.123456	Longitude:	-83.391456		
Placement Designation:	Partial Remove and Replace	Quantity:	880 Ton(s)		
RCI Options (Lanes):	L1	From Station:	1+00	To Station:	11+50
Beginning Latitude:	21.123456	Longitude:	-81.123456		
Ending Latitude:	21.123456	Longitude:	-82.479956		
Placement Designation:	Removed	Quantity:	115.5 Ton(s)		
RCI Options (Lanes):	L1	From Station:	11+50	To Station:	31+80
Beginning Latitude:	21.123456	Longitude:	-82.479956		
Ending Latitude:	21.123456	Longitude:	-83.109256		
Placement Designation:	Left in Place	Quantity:	223.3 Ton(s)		
RCI Options (Lanes):	L1	From Station:	31+80	To Station:	41+00
Beginning Latitude:	21.123460	Longitude:	-83.109256		
Ending Latitude:	21.123456	Longitude:	-83.391456		
Placement Designation:	Removed	Quantity:	101.2 Ton(s)		
RCI Options (Lanes):	L2	From Station:	1+00	To Station:	11+90
Beginning Latitude:	21.123456	Longitude:	-81.123456		
Ending Latitude:	21.123456	Longitude:	-82.461356		
Placement Designation:	Left in Place	Quantity:	119.9 Ton(s)		
RCI Options (Lanes):	L2	From Station:	11+90	To Station:	21+45
Beginning Latitude:	21.123456	Longitude:	-82.461356		
Ending Latitude:	21.123456	Longitude:	-82.789606		
Placement Designation:	Removed	Quantity:	105 Ton(s)		
RCI Options (Lanes):	L2	From Station:	21+45	To Station:	41+00
Beginning Latitude:	21.123456	Longitude:	-82.789606		
Ending Latitude:	21.123456	Longitude:	-83.391456		
Placement Designation:	Left in Place	Quantity:	215.1 Ton(s)		

Delineation testing was performed. The project personnel recommended that the material be accepted through partial removal and replacement, as shown. The District Materials and Research Engineer and District Construction Engineer concurred.



- M
- in
- in
- T
- tc



Materials Acceptance and Certification

- Notification for PAs as a reminder to fill it out

Notification Event Type Group		Notification Event Type							
Material Certification		Location Information for Final Recommendation							
Subject		Opt In/Opt Out		Will Receive Notification		Filter	Method		
1	MC Review Finding {Display} Resolved. Document Location Information.	Can Opt In		✓			Email/Dashboard	Update	Create Another Filter



Materials Acceptance and Certification

List of MCs per District

- D1/7 – Mark Conley
 - 863-519-4233
- D1/7 – James (Randee) Stricklin
 - 863-519-4257
- D2 - Curtis Becker
 - 386-961-7724
- D2 - Mystery Easter
 - 386-961-7808
- D3 – Anthony Mosier
 - 850-330-1373
- D4/6 - Wismith Voltaire
 - 954-677-7047
- D5 - Jeanie Kozak
 - 386-740-3489
- D5 - Jodi Johnson
 - 386-740-3502
- TP – Brad Biery
 - 954-934-1147



Materials Acceptance and Certification

- End of project cleanup
- MAC locks down 3 areas when the PMCL is generated
 - Samples
 - Project Samples & Program Samples with your contract/project on them



Materials Acceptance and Certification

- End of project cleanup
- Nonstandard JGS
 - Is the final report complete?
 - Is it correct?



Materials Acceptance and Certification

- End of project cleanup
- Contractor QC Plan
 - Asphalt, Earthwork and Structural Concrete entry or addendums are Accepted
 - All Other Material Types are Submitted
 - No documents with proprietary information or PII on the Documents tab
 - No documents that belong in EDMS on the Documents tab



Materials Acceptance and Certification

- End of project cleanup
- Work Order Contract?
 - Each work order can be closed
 - Locks down Samples and NSJGS
 - Leaves Contractor QC Plan open until PMCL is generated

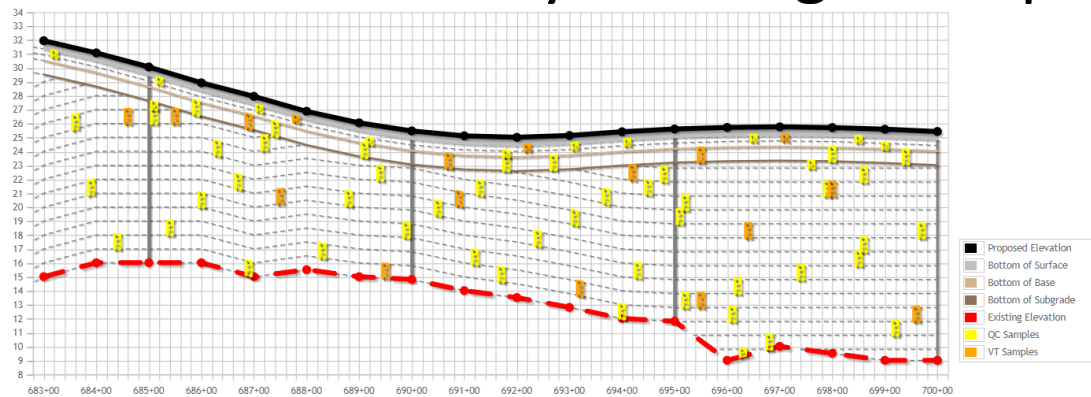
Click to Collapse

[Close Work Order](#)

Click to Collapse

Materials Acceptance and Certification

- Earthwork Records System
 - Construction Academy winning team project



MAC Implementation Status Update:

- Number of Samples - 1,253,843
- Number of Projects Certified - 4,316
- Number of Projects with samples - 3,908
- Number of Projects with ERS Projects - 531



Materials Acceptance and Certification

List of primary DACs per District

- D1/7 – Mark Conley
 - 863-519-4276
- D2 – Mystery Easter
 - 386-961-7808
- D3 – Glenn Cook
 - 850-330-1747
- D4/6 – Jean Moline
 - 954-677-7033
- D5 - Jodi Johnson
 - 386-740-3502
- TP – Caleb Castillo
 - 817-726-1407



Materials Acceptance and Certification

List of MC Reviewers per District

- D1/7 – Mark Conley
 - 863-519-4223
- D2 – Curtis Becker
 - 386-961-7724
- D3 – Anthony Mosier
 - 850-330-1632
- D4/6 – Wismith Voltaire
 - 954-677-7001
- D5 - Jodi Johnson
 - 386-740-3502
- TP – Caleb Castillo
 - 817-726-1407



Materials Acceptance and Certification

- MAC Resources
 - One website for all things MAC
 - <https://www.fdot.gov/materials/mac/default.shtm>



Materials Acceptance and Certification



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