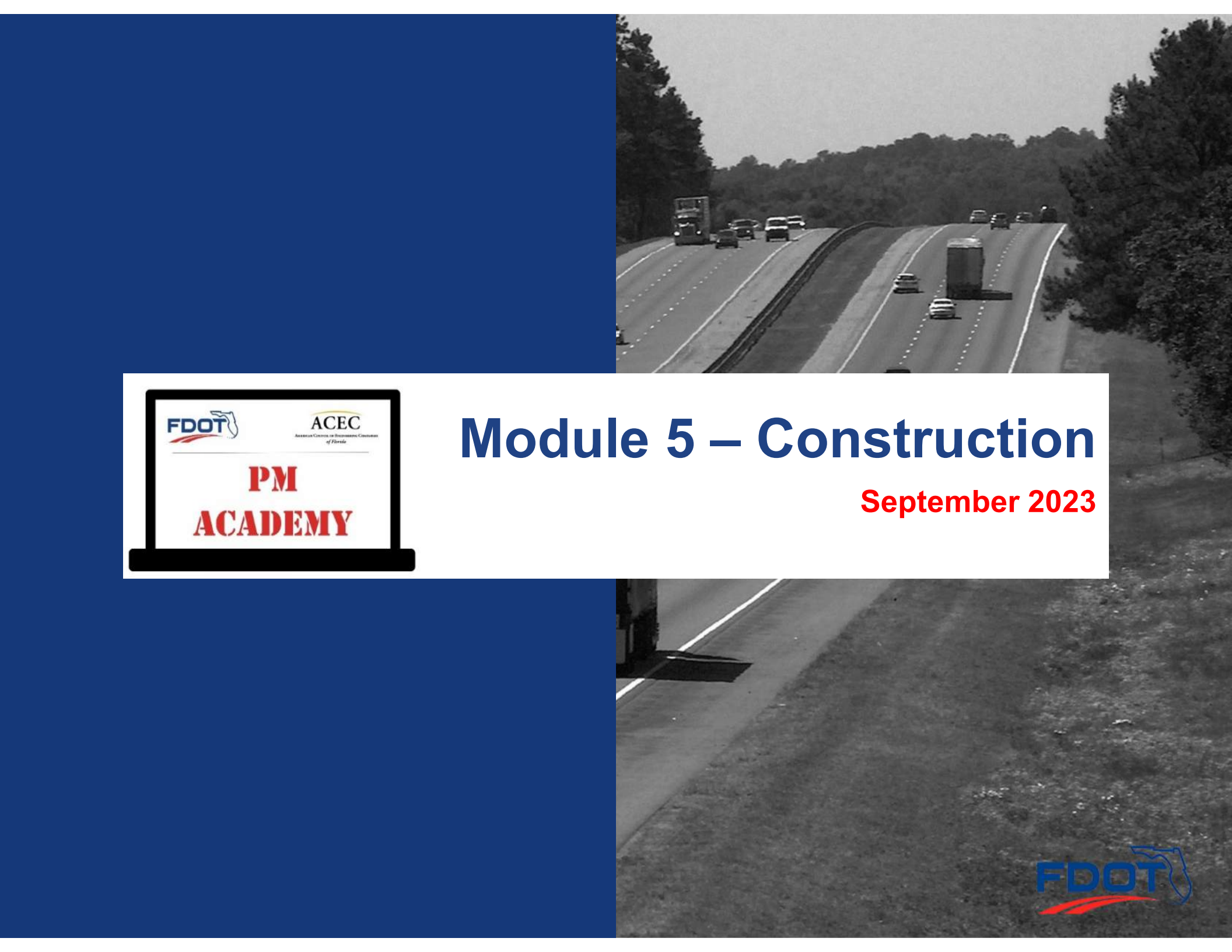

FDOT
ACEC
PM
ACADEMY
Module 5 – Construction
September 2023
FDOT

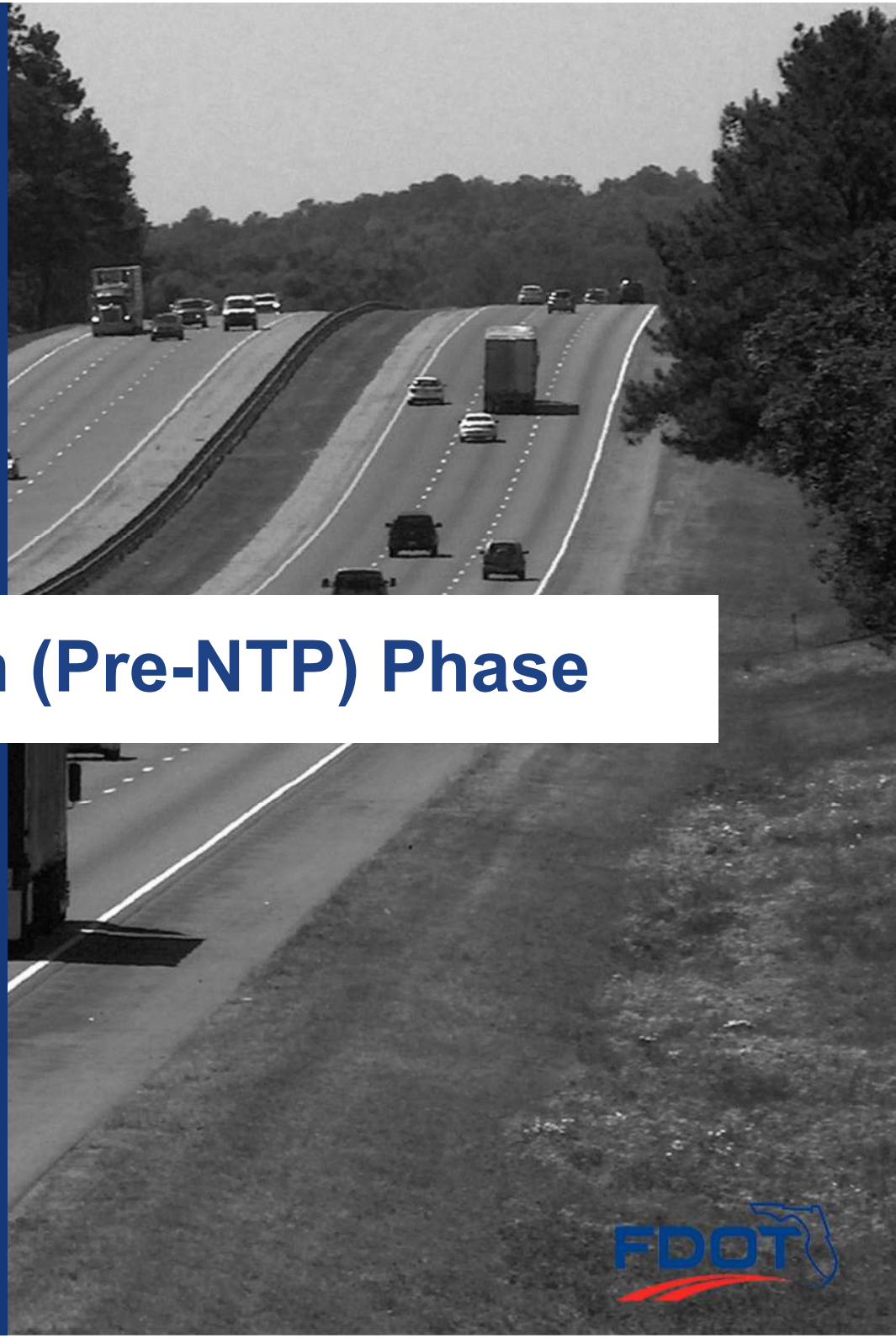
FDOT ACEC

PM ACADEMY

Introduction

Greg Evans, P.E.
Florida Department of Transportation
District 2 Secretary

PM ACADEMY



Pre-Construction (Pre-NTP) Phase

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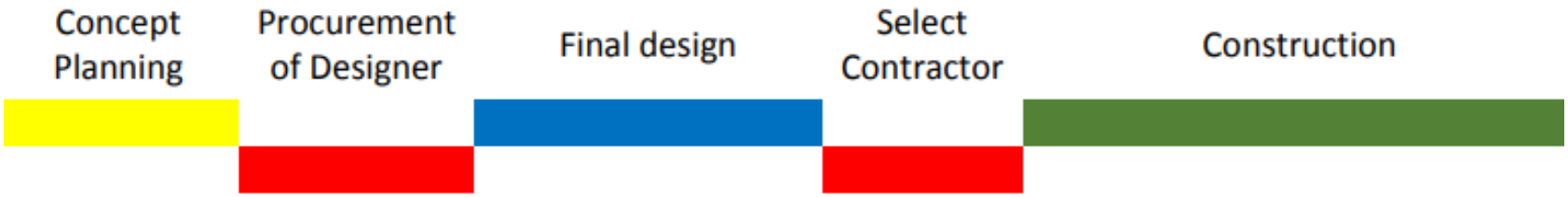
Pre-Construction Timeline

Taylor Byrd, P.E.
Florida Department of Transportation
District 2 Jacksonville Construction Engineer

Project Timeline

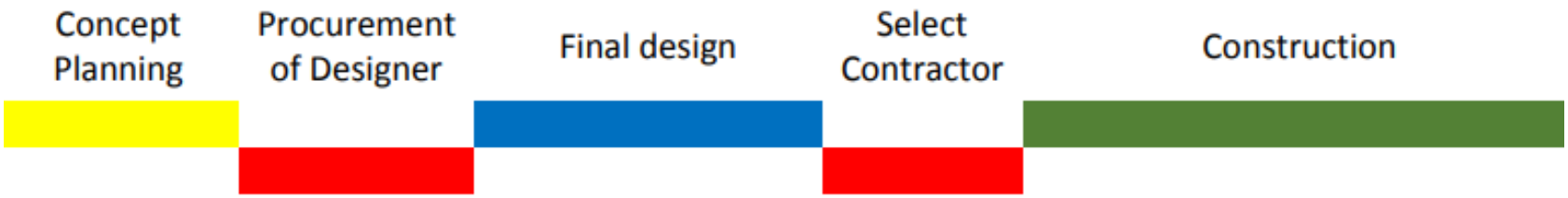
- Design Bid Build
- Adjusted Score Design Build
- Phased Design Build

Project Timeline – Design Bid Build



- **Final design (design phase)**
  - ERC plan reviews
  - Contract Time Memo at Phase 3
  - CEI Selection (typical target of 6-8 months prior to the Let date)
  - Plans go to Specs 2-3 months before letting

Project Timeline – Design Bid Build



Contract Time 300

Spec 3-1	Spec 3-2	Spec 3-6	Spec 3-6	Spec 8-3.3	Spec 8-3.3	
Bid Letting	Award	Contract Execution by Contractor	Contract Execution by FDOT	Issue Work Order	Contract Time Starts	Project Completion
	within 50 days by spec usually 35-40	within 10 working days	within 5 working days	within 20 working days	procurement period	

Date: 4/26/2023	Date: 5/16/2023	Date: 5/30/2023	Date: 6/6/2023	Date: 6/26/2023	Date: 7/10/2023	Date: 5/5/2024

= data required

Consultant CEI NTP - Construction NTP - 30 days
5/27/2023

8-3.2 Submission of Working Schedule
Within 21 days of award or at Precon
whichever is soon 6/6/2023

105-5 Submit QC Plan within 7 days of work
7/3/2023

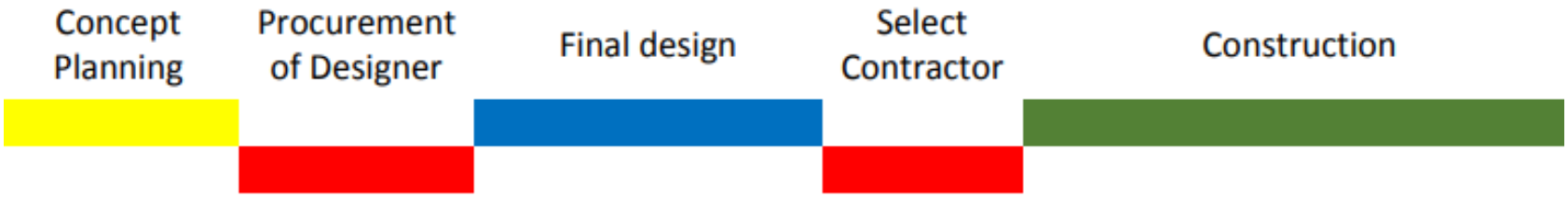
8-3.5 Preconstruction Conference
After award but before construction begins

Procurement Period
15 days

8-3.3 Beginning of Work
Minimum 5 day notice by
contractor to begin work

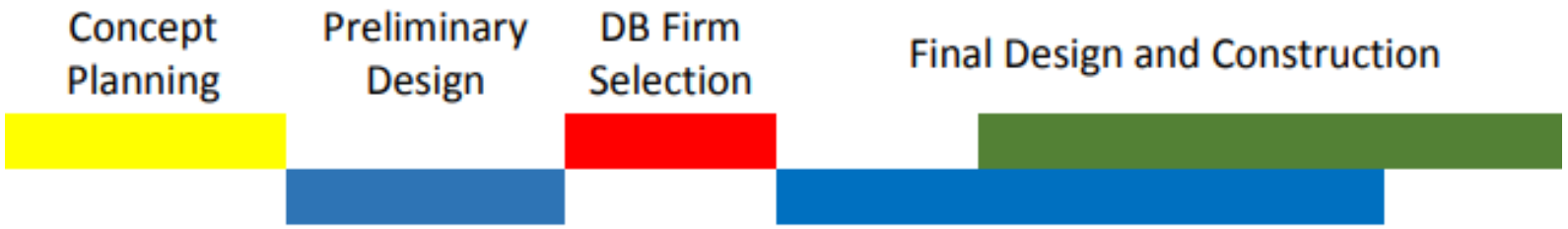
Notice to Proceed date or date set
by contractor whichever is earlier

Project Timeline – Design Bid Build



- **Construction**
  - Contractor Past Performance Rating (CPPR) process
  - Schedule reviews
  - Quantity tracking for payment purposes
  - Handling materials related items in MAC
  - DWRs, Change Orders, and Estimates in PrC
  - Document storage in Project Solve SharePoint (PSSP)
  - Handling construction claims
  - Contract modifications
  - Progress & Pre-Activity Meetings

Project Timeline – Adjusted Score Design Build

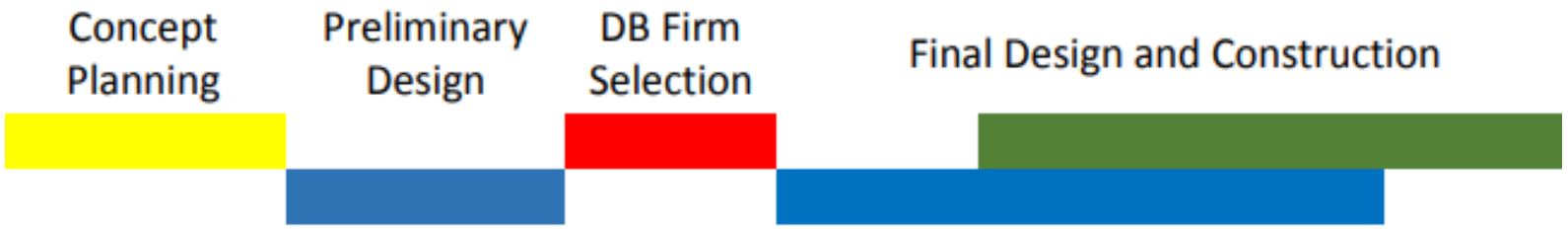


- **Preliminary Design**
  - Plan reviews
  - Contract Time
  - Scoping RFP
  - Design coordination meetings
- **Design Build (DB) Firm Selection (9-12 month procurement)**
  - Reviewing LOIs, ATCs, etc.
  - CEI can be brought in early to be a technical resource

Project Timeline – Adjusted Score Design Build

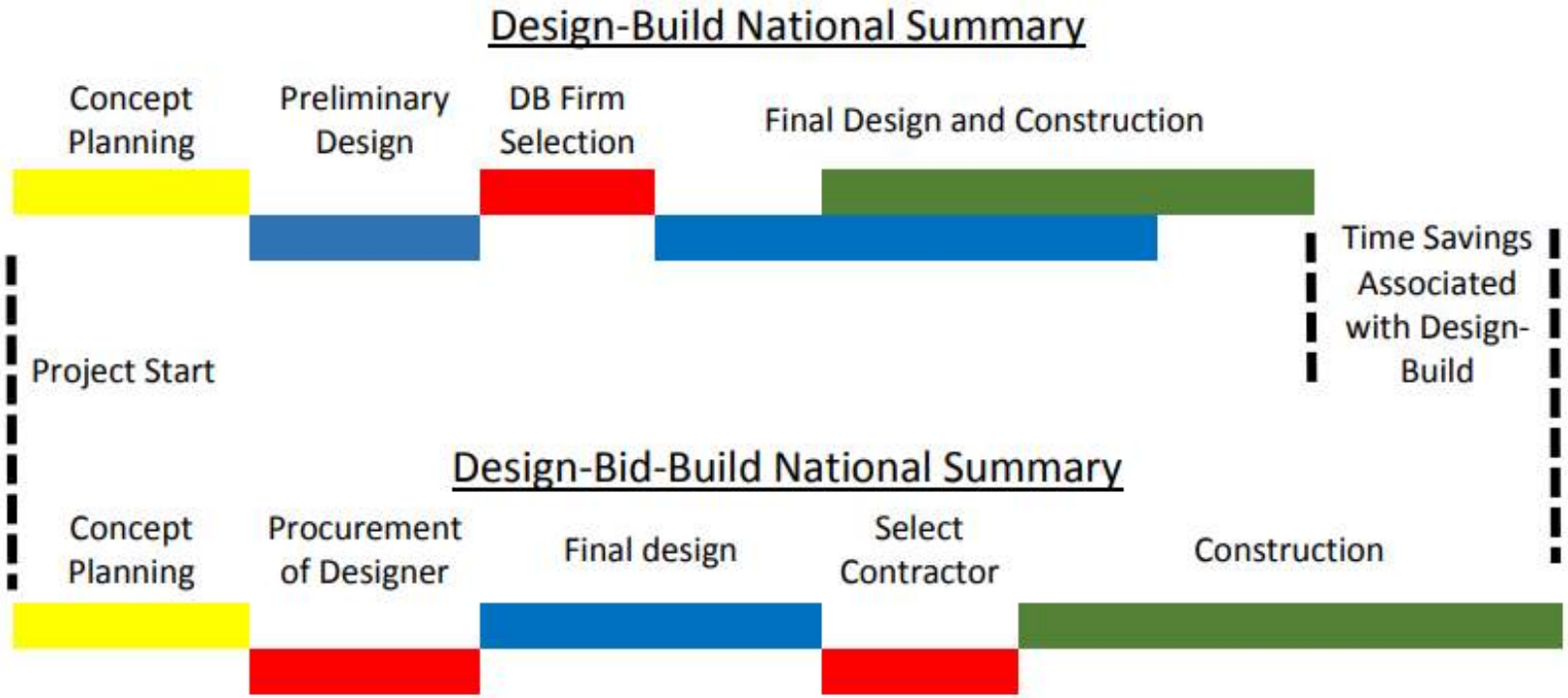
Date	Minimum # of Days	Event
10-5-2021		Marketing Da
9-27-2021	0	Planned Adv
10-11-2021	10	Official Adve
11-8-2021	21	Letters of Int Office by xx:x
1-3-2022	28	Proposal Eva xx:xx am/pm
1-6-2022	3	Contracting Evaluators co
1-10-2022	4	Public Meeti Interest scor
1-10-2022	0	Shortlist Post
1-19-2022	5	Final RFP pr ***RFP:*** *"provid* *Design-Build* xx:xx am/pm
Delete meeting	7	Mandatory P with address contemplate be invited to ***developer of*** *District dete*
1-24-2022	0	Utility Pre-Pr xx:xx am/pm
1-31-2022	7	Deadline for Alternative T local time
2-2-2022	7	Deadline for Technical Co Discussion M
2-8-2022	7	One-on-One Minutes will
2-14-2022	0	Deadline for Design-Build Firm to request participation in One-on-One Alternative Technical Concept Discussion Meeting No. 2, xx:xx am/pm local time
2-16-2022	7	Deadline for Technical Co Discussion M
2-22-2022	7	One-on-One Minutes will b
3-9-2022	14	Deadline for am/pm local
3-9-2022	0	Final deadline Variations. xx *Make date s*
4-6-2022	21	Addendum is time
4-13-2022	7	Deadline for Alternative T local time
4-22-2022	7	One-on-One Minutes will continuing di ***of the RFP:*** *D* *Design Excep* additional inf direct respon ***of the RFP:*** *D*
4-27-2022	7	Deadline for which the De approved or issued on or a *day after the*
5-11-2022	14	DDE complet ***the develope*** *used.*
5-25-2022	14	Deadline for s to the submission of the Technical Proposal. All questions shall be submitted to the Pre-Bid Q&A website.
6-1-2022	7	Deadline for the Department to post responses to the Pre-Bid Q&A website for questions submitted by the Design-Build Firms prior to the submittal of the Technical Proposal.
		Note to the developer of the RFP: *Do not issue Addendums 72 hours (excluding weekends and holidays) before the Technical Proposal is due.*
6-10-2022	2	Technical Proposals due in District Office by xx: xx a.m./p.m. local time
6-16-2022	0	Deadline for Design-Build Firm to "opt out" of Technical Proposal Page Turn meeting.
6-22-2022	7	Technic Pre-Pro
7-12-2022	27	Questio provide answer. *the list*
7-19-2022	7	Deadlin Departm am/pm *Firm is within*
7-26-2022	7	Deadlin Questio questio time ***No*** *list of fo*
8-2-2022	7	Deadlin Departm ***develop*** *respons of the*
8-2-2022	0	Deadline for submittal of questions, for which a response is assured, prior to the submission of the Price Proposal. All questions shall be submitted to the Pre-Bid Q&A website.
8-8-2022	5	Deadline for the Department to post responses to the Pre-Bid Q&A website for questions submitted by the Design-Build Firms prior to the submittal of the Price Proposal.
8-8-2022	0	Deadline for the Design-Build Firm to submit a written statement per Section III. Threshold Requirements, F. Question and Answer Written Responses
		Note to the developer of the RFP: *Do not issue Addendums 72 hours (excluding weekends and holidays) before the Price Proposal is due.*
8-10-2022	2	Price Proposals due in District Office by xx:xx am/pm local time. *<at least one week after Q&A session>*
8-10-2022	0	Public announcing of Technical Scores and opening of Price Proposals at xx:xx am/pm local time in *<location with address>*
8-15-2022	7	Public Meeting of Selection Committee to determine intended Award
8-15-2022	0	Posting of the Department's intended decision to Award
8-29-2022	14	FHWA Concurrence to Award
9-2-2022	6	Anticipated Award Date
9-16-2022	10	Anticipated Execution Date

Project Timeline – Adjusted Score Design Build



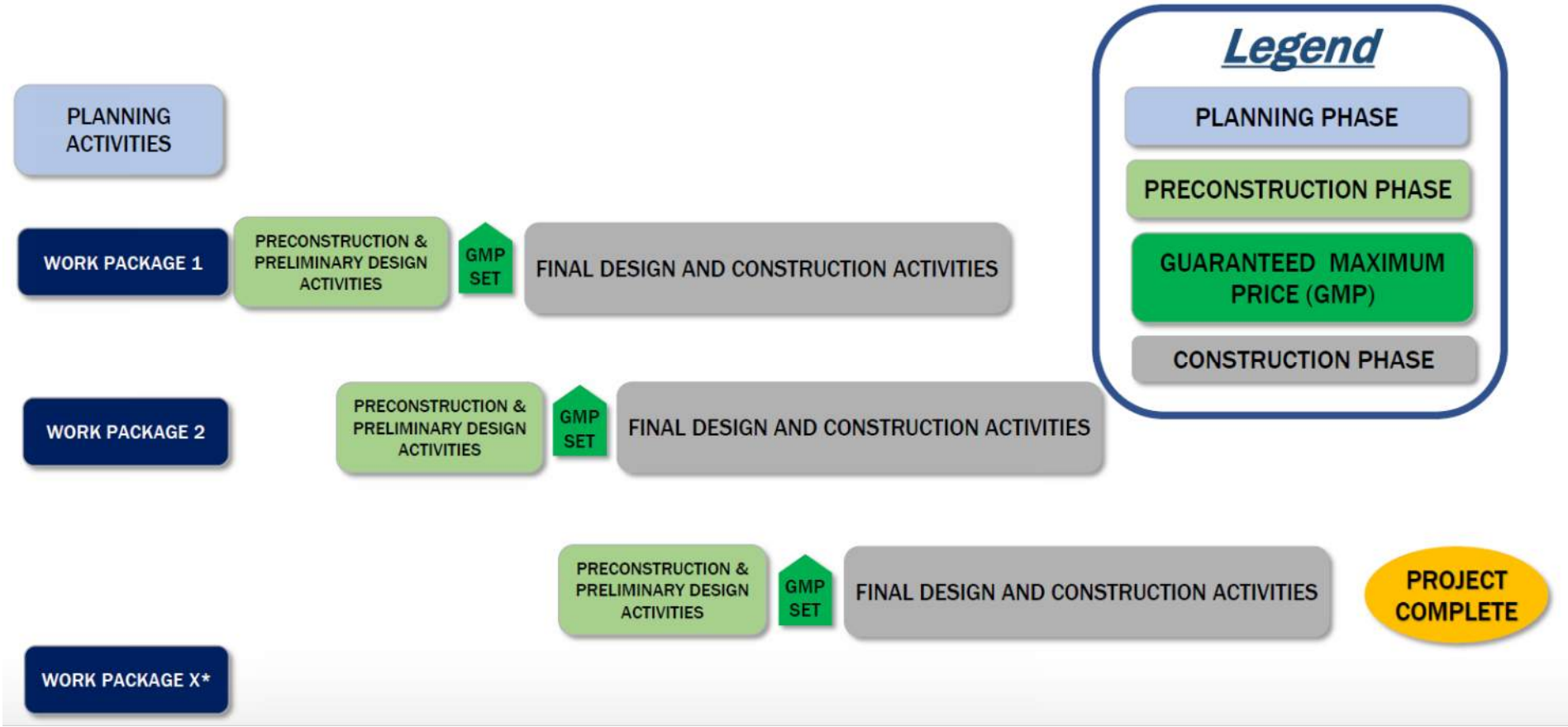
- **Final Design and Construction**
  - FDOT, Owners Rep, and CEI all involved
  - Plan Reviews
  - Monitoring RFP requirements being met
  - Facilitating the Contract from design through construction

Project Timeline



	Design Build	Design-Bid-Build
Total Cost	$63.2 Million	$69.0 Million
Total Time	1,466 Days	2,122 Days

Project Timeline – Phased Design Build



Project Timeline – Phased Design Build

Phased Design Build	Adjusted Score Design Build
3-4 month procurement	9-12 month procurement
Selection based on qualifications submitted in a Letter of Response, Presentation and Q&A (Request for Qualifications)	Selection based on assessment and scoring of Technical Proposals, inclusive of preliminary plans, and lump sum price proposal (Request for Proposals)
Collaborative approach to planning, design and construction activities post-award	Alternative Technical Concepts (ATC) process pre-award
Phased funding	Construction fully funded prior to letting
Multiple work packages designed and constructed in a phased manner	Designed and constructed as one project based on the Technical Proposal (“book of promises”)
Prime Contractor self-performs 30% min/40% max of work w/review by Independent Cost Estimator (ICE). Subcontracted work (60-70%) to be publicly advertised by prime contractor.	Prime contractor is responsible for a minimum of 40% of the construction work.

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Plan Reviews

Kenny Geisendorff, P.E.
VIA Consulting Services, Inc.
Senior Project Engineer

Pre-Construction Plan Reviews – CPAM 1.1

- **Phase I –**
  - In this phase, no decisions have been finalized.
  - Bridge plans usually trail behind the roadway plans and may not be available in this phase.
  - The focus of this review should be to identify project restraints such as – Right of Way, Easements, and Utility Relocations.
- **Phase II –**
  - Right of Way and construction phases should be set.
  - The most important roadway element to review is drainage.
    - Look for sufficient R/W to install the proposed drainage; conflicts with utilities and necessary pay items.
    - Ensure drainage scope is addressed in all plan phases (i.e. inaccessible drainage structures due to traffic).
  - Bridge plans should be reviewed to ensure that the Contractor is able to get beams and piles to the project and space is available to construct bridge elements.
- **Phase III –**
  - Focus of this phase should be to ensure that the project may be constructed within the restraints of the plans and specs.
  - Review plan notes to ensure they are clear, and quantities are correct.
  - District Construction office will set construction time and identify if traffic control officers, partnering, DRB, and pre-bid meetings are required.
- **Phase IV –**
  - Focus of this review should be to identify that all previous comments are resolved.

Pre-Construction Plan Reviews – CPAM 1.1

- CPAM 1.1.9 has a checklist for each element that should be reviewed.

4. STRUCTURES

Item No.	Feature to be Checked	Ok	Not Ok	N/A
4-1.	Does Corp. of Engineers or WMD permit require work not shown on plans?			
4-2.	Is TCP coordinated with roadwork phasing?			
4-3.	If battered pile used will leads be over moving R.E. walls?			
4-4.	Do plans sh foundations			
4-5.	Water depth prop wash?			
4-6.	If access ro been consi			
4-7.	Have powe confirmed?			
4-8.	Is highway			
4-9.	Are there a and easem			
4-10.	Has TCP P work?			
4-11.	If Federal-A has the EO America re			

6. DRAINAGE

Item No.	
6-1.	Existing drainage indications.
6-2.	Drainage easemer
6-3.	Identification and
6-4.	Ditches compatibl
6-5.	Needed elevations design with existin
6-6.	Drainage when FC
6-7.	Drainage of constr
6-8.	Drainage facility p maintained during
6-9.	Proposed method
6-10.	Effect of overlay o drainage and their
6-11.	Outfall locations o

7. MAINTENANCE OF TRAFFIC

Item No.	Feature to be Checked	Ok	Not Ok	N/A
7-1.	TCP (Traffic Control Plan) clear, complete, approved and conform to FDOT Standard Index.			
7-2.	Temporary safety devices requirement and provision (i.e., guard rail, attenuators, earth mounds, etc.)			
7-3.	Location of traffic control signs, warning devices and barricades. Check if they are encroaching on lanes.			
7-4.	Detour facility, if any, and maintenance of traffic. Traffic addressed on side streets as per Index 600 of Standard Index.			
7-5.	Traffic operation requirements properly addressed (i.e., signing, pavement markings, signal, etc.).			
7-6.	Relocation item for barrier wall or fence.			
7-7.	Location of flashing arrow boards, if needed, at appropriate places.			
7-8.	Lanes on which traffic is to be maintained compatible to local conditions and intended to be paved.			
7-9.	Is there sufficient clearance within the work zone for the operation (such as crane swing room)?			
7-10.	Adequate accommodations for intersecting and crossing traffic.			
7-11.	Address pedestrian and bicycle accommodations.			
7-12.	Are exits and entrances to the work zone adequate and safe?			
7-13.	Method of containing bridge slopes during phased construction (at end bent) and approach grade separations.			
7-14.	Restrictions (e.g., lane closure, general construction or peak-hour restrictions in urban areas) indicated in plan.			
7-15.	Note covering traffic signal modifications for phased construction.			
7-16.	Note covering pay for traffic control items.			

Pre-Construction Plan Reviews – CPAM 1.1

Common Constructability Review Examples

- **Utilities –**
  - Look for all utilities within project limits to have relocation, protect, or no plan for relocation.
  - Review RGBs vs Final plans to check for changes or conflicts not addressed.
  - Watch for relocations in tight ROW, boring contractors may drift into areas where construction elements are to be installed.
- **MOT –**
  - Critical work activities vs. lane closure restrictions - OH signs, utility work, drainage installation in active lanes.
  - Clear Zone – especially important on projects without barrier wall.
  - Traffic patterns – business access during construction, inadequate queue lengths in TTCP.
  - Adequate room to construct improvements – Horizontal and Vertical (i.e. bridge piers between traffic, power lines near crane activities).
  - Look for PGL changes with consideration for side streets, residential and commercial driveways.
- **Drainage –**
  - Permanent and temporary - look for low-lying areas that are not addressed.
  - Look to ensure the trunk line for your permanent drainage is installed in the first phases.
- **ADA constraints –**
  - Ramp conflicts with R/W and drainage structures, multiple utility or signalization pull boxes located in ramps.
  - Ensure proposed pedestrian button locations are within R/W.

Pre-Construction Plan Reviews – CPAM 1.1

Common Constructability Review Examples

- **MSE walls –**
  - Temporary traffic shifts too close to the wall face. Walls on box culverts could cause settlement concerns.
- **Plan Notes –**
  - Review for any conflicts with proposed improvements, special requirements for RR, etc.
  - Suggest special event notes based on project location.
- **Maintenance –**
  - Discuss critical elements with local Maintenance office personnel.
  - Maintenance wish list vs. construction activities (i.e. tree trimming, soundwall cleaning, cleaning existing drainage pipes, lighting repairs).
- **Resurfacing Restoration Rehabilitation (RRR) Projects –**
  - Scope includes work to extend the service life of the facility.
  - Not meant to be a full reconstruction.
  - Existing features not meeting minimum criteria may require processing of exception or variance.
- **ERC Comment Resolution –**
  - Don’t hesitate to make phone calls or hold meetings on unresolved comments – better to resolve during design than in construction.
- **ROW Availability Constraints – typically D/B projects –**
  - Watch out for ROW that may not be immediately available based on ROW agreements.

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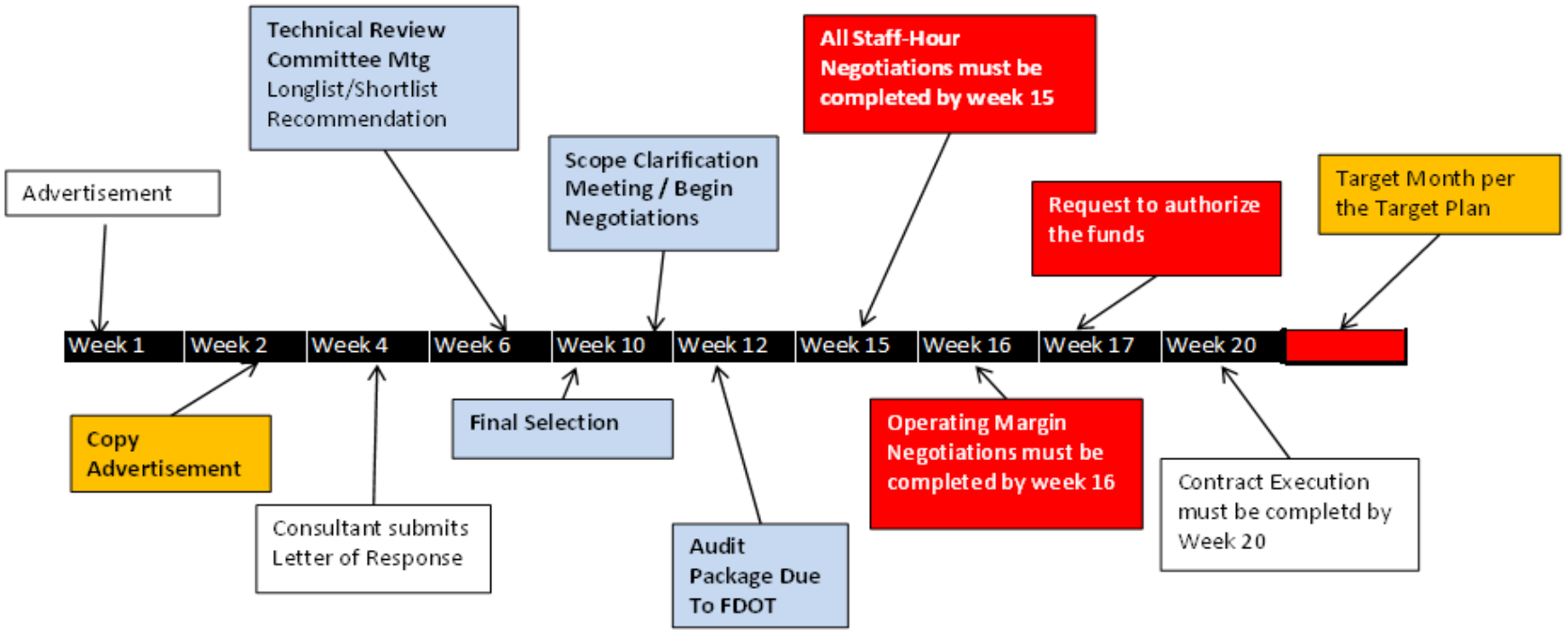
Preparation

Joaquin Olivella, P.E.
Florida Department of Transportation
District 2 Gainesville Construction Engineer

Preparation – Consultant CEI Team

- Consultant CEI Contract Acquisition - Timeline



Preparation – Consultant CEI Team

Staffing Plan

ENGINEER'S ESTIMATE FOR CCEI SERVICES - CCEI Contract: _____ Contract Calendar Start: 6/26/2023 Contract Calendar End: 5/21/2024 Overtime Rate (If Appl

Create Calendar(s) Instructions DESCRIPTION	FIN#'s	Let Dates	Anticipated NTPs	Pre-Const. Times	Acquisition	Const. Contract Times	Post-Const. Times	Const. Start	Const. End	Calendar Start	Calendar End	Current Construction Programmed
STATE ROAD RESURFACING	123456-7-89-01	5/17/2023	7/26/2023	30	121	150	30	11/24/2023	4/21/2024	6/26/2023	5/21/2024	$ 15,000,000.00

445724-1-52-01	Jun	Jul	Aug	Sep	Oct	Nov	Dec	2023 Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	2024 Total	Total Months	Total Staff Hours
Sr. Project Engineer						0.1	0.2	0.3	0.2	0.2	0.2	0.2	0.2					1	1.3	214.5
PE/PA						0.3	0.5	0.8	0.5	0.5	0.5	0.5	0.5					2.5	3.3	544.5
CSS						0.2	0.2	0.4	0.2	0.2	0.2	0.2	0.5					1.3	1.7	280.5
Sr. Insp. (Road)						0.5	1	1.5	1	1	1	1	0.25					4.25	5.75	948.75
Insp. (Road)						0	1	1	1	1	1	0.5	0					3.5	4.5	742.5
Totals	0	0	0	0	0	1.1	2.9	4	2.9	2.9	2.9	2.4	1.45	0	0	0	0	12.55	16.55	2730.75
Comments	EX: Contract time established or estimated; acquisition time, approximate overtime (5, 10, 15%); survey needs; special circumstances, assumptions, etc.																			

Contract Documents and Tools

- **Contract Documents**
  - Executed Contract
  - Plans and Specifications
  - Utility Work Schedules
  - Permits
  - JPA Table A
- **Tracking Sheets**
- **Pay-items List and payment**
- **Contract Time File**
- **Working Folders**
- **As-Built Plans**
- **PSSP access**
- **MAC Access**
- **Project Commitments**

Contract Documents and Tools

In-House / CCEI	Contract Number	Fin Proj	Line Item Number	Categor	Item Code	Item Description	Sup Item	Bridge	Bid Qty	Unit Meas	Change Order	Total Quantity	Unit Price	Specialty Item	Part/Nor	PRECISION	Contract Payment Description / see attched BOE Comment	Specificat ions Ye	See Spe /section
In-House	T2899	207611752	0005	0200	0101 1	MOBILIZATION	207611752		1.000	LS	.000	1.000	$67,483.220	N	Y	1	Plan Quantity	Jan-22	Only Pa
In-House	T2899	207611752	0010	0200	0102 1	MAINTENANCE OF TRAFFIC	207611752		1.000	LS	.000	1.000	$104,743.510	N	Y	1	Contractor Certified	Jan-22	
In-House	T2899	207611752	0015	0200	0102 4 1	PEDESTRIAN OR BICYCLE	207611752		1.000	LS	.000	1.000	$4,958.610	N	Y	1	Contractor Certified	Jan-22	
In-House	T2899	207611752	0020	0200	0102 14	TRAFFIC CONTROL OFFICER			24.000	HR	.000	24.000	$75.000	N	Y	1	Contractor Certified	Jan-22	
In-House	T2899	207611752	0025	0200	0102 60	WORK ZONE SIGN			3,465.000	ED	.000	3,465.000	$.300	N	Y	1	Contractor Certified	Jan-22	
In-House	T2899	207611752	0030	0200	0102 74 1	CHANNEL DEVICE-TYPS			1,655.000	ED	.000	1,655.000	$.200	N	Y	1	Contractor Certified	Jan-22	
In-House	T2899	207611752	0035	0200	0102 74 8	CHANNELIZING DEVICE- PED			4,091.000	FD	.000	4,091.000	$.200	N	Y	1	Contractor Certified	Jan-22	
In-House	T2899	207611752	0040	0200	0102 76	ARROW BOARD /ADVANCE	207611752		120.000	ED	.000	120.000	$12.000	N	Y	1	Contractor Certified	Jan-22	
In-House	T2899	207611752	0045	0200	0102 99	PORTABLE CHANGEABLE			380.000	ED	.000	380.000	$18.000	N	Y	1	Contractor Certified	Jan-22	
In-House	T2899	207611752	0050	0200	0102913 21	REMOVABLE TAPE, WHITE,			.424	GM	.000	.424	$13,500.000	N	Y	0.001	Contractor Certified	Jan-22	
In-House	T2899	207611752	0055	0200	0104 18	INLET PROTECTION SYSTEM			4.000	EA	.000	4.000	$295.000	N	Y	1	Field Measure	Jan-22	
In-House	T2899	207611752	0060	0200	0107 1	LITTER REMOVAL			.870	AC	.000	.870	$475.000	N	N	0.01	Field Measure (per cycle)	Jan-22	
In-House	T2899	207611752	0065	0200	0107 2	MOWING			.340	AC	.000	.340	$475.000	N	N	0.01	Field Measure (per cycle)	Jan-22	
In-House	T2899	207611752	0070	0200	0110 1 1	CLEARING & GRUBBING	207611752		1.000	LS	.000	1.000	$38,896.000	N	Y	1	Plan Quantity	Jan-22	
In-House	T2899	207611752	0075	0200	0110 4 10	REMOVAL OF EXIST CONC			190.000	SY	.000	190.000	$42.000	N	Y	1	Field Measure	Jan-22	
In-House	T2899	207611752	0080	0200	0120 1	REGULAR EXCAVATION			171.000	CY	.000	171.000	$48.960	N	Y	0.1	Plan Quantity	Jan-22	

Contract Documents and Tools

Contract:		FIN. No:		Project Administrator:	

				cation Time Used 1st Year:	0
				ation Time Used 2nd Year:	0
Codes:	W=Weather	H=Holiday	D=Work Delayed	cation Time Used 3rd Year:	0
	1=Pursuit of Work	8=Quality Day			
	X=Non-Pursuit of Work	X=Non-Quality Day			
Suspension Codes:	SV=Vacation	SF=Friction Course Curing Period			
	SA=Adhesion of RPM's	SB=Burn in Signal/Lights			
	SO=Other				

Original Contract Time:			
Time Extend. by WO/SA:	20		
Time Ext by Weather:	33		
by Holiday/Special Event:	24		
Time Ext by Other:	0		
Present Contract Time:	77		

	First Chargeable Day
March 16, 1900	Last Contract Day

ver 3.0

Month	1 [JAN]
Year	1900

Day:	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue
Date:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
Deficiency Code:																															
Weather/Holiday Code:																															
Pursuit of Work:																															
Quality Days:																															
Contract Day No:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
Percent Time:	1.3%	2.6%	3.9%	5.2%	6.5%	7.8%	9.1%	10.4%	11.7%	13.0%	14.3%	15.6%	16.9%	18.2%	19.5%	20.8%	22.1%	23.4%	24.7%	26.0%	27.3%	28.6%	29.9%	31.2%	32.5%	33.8%	35.1%	36.4%	37.7%	39.0%	40.3%
Comments:																															

Month	2 [FEB]
Year	1900

Day:	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat
Date:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29			
Deficiency Code:																																
Weather/Holiday Code:																																
Pursuit of Work:																																
Quality Days:																																
Contract Day No:	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60			
Percent Time:	41.6%	42.9%	44.2%	45.5%	46.8%	48.1%	####	####	51.9%	53.2%	54.5%	55.8%	57.1%	58.4%	59.7%	61.0%	62.3%	63.6%	64.9%	66.2%	67.5%	68.8%	70.1%	71.4%	72.7%	####	####	76.6%	77.9%			
Comments:																																

Preparation – Standard Practices

- **Start communicating with the Contractor as soon as the Contract is executed**
  - Who will be the Contractor's project manager
  - How will correspondence flow
  - Discuss Contractor's preconstruction submittals
  - Discuss shop drawings and schedule
- **Contact the District Material's office**
  - Which company is responsible for verification lab samples
  - Which company will be the geotechnical engineer on the project
- **Contact the Engineer of Records**
  - Discuss project correspondence

FDOT ACEC

PM ACADEMY

Pass The Torch Meeting

Sandra Bucklew, P.E.
Greenman-Pedersen, Inc.
Senior Project Engineer

Pass the Torch Meeting

- **Project Overview**
  - Design Decisions
    - Typical Sections
    - Variations & Exceptions
  - Project Development and Environment (PD&E) / Environmental / Permits
    - Project Commitments
    - Contaminated Materials
    - Public Information Meetings
    - Hot Topics
  - Right of Way
    - Access Requirements
    - Parcel Status
    - Encroachments
    - Removal by Others / Removal by Contractor
    - Temporary Construction Easements (TCEs)

Pass the Torch Meeting

- **Project Overview**
  - Utilities
    - Utility Work Schedules
    - Pre-Construction Utility Work
    - Utility Work by Highway Contractor (UWHC)
  - Agreements
    - Local Activities
    - Construction Restrictions
  - Construction Access
    - Project Constraints
  - Maintenance of Traffic
    - Work Item Time Frames
    - Lane Closure Restrictions
    - Project Phasing
  - Specifications
    - Technical Special Provisions (TSP) or Developmental Special Provisions

Pre-Construction & Pre-Utility Meetings

Sandra Bucklew, P.E.
Greenman-Pedersen, Inc.
Senior Project Engineer

Pre-Construction / Pre-Utility Meetings

Topic No. 700-000-000
Construction Project Administration Manual
Administrative Requirements

Effective: July 1, 2002
Revised: January 30, 2023

Section 3.1

PRECONSTRUCTION CONFERENCE

3.1.1 Purpose

This section details who should be included and the information to be covered and discussed in the ***Preconstruction Conference***, as well as the meeting scheduling, notification, agenda, and minute requirements.

3.1.2 Authority

Sections 20.23(3)(a) and 334.048(3), Florida Statutes (F.S.)

3.1.3 References

Section 337.125, F.S.

3.1.4 Scheduling

(A) Resident Level Responsibilities

The Project Administrator (PA) will schedule and conduct a ***Preconstruction Conference*** after receipt of the ***Notice of Award*** and prior to any work beginning. The scheduled date of the ***Preconstruction Conference*** must be selected to accommodate the interests of all affected parties. Notice of the scheduled date must include a brief description of the project. The project description must be written in terms easily understood by the general public.

A ***Utility Coordination Meeting*** will also be held with the Contractor and all utility companies. This meeting should be held as soon as possible after the ***Notice of Award***

- CPAM Guidance
  - Attendees
  - Notice
  - Agenda
  - Meeting Minutes
- CPAC Guidance
- Virtual Option

Pre-Construction / Pre-Utility Meetings

PRECONSTRUCTION CONFERENCE

DATE: July 1, 2020

FIN PROJECT NO.: 436558-1-52-01/436558-56-01

F.A.P. NO.: N/A

CONTRACT NO.: E2Z23

COUNTY/SECTION: Bradford / 28020

PRIME CONTRACTOR: JB Coxwell Contracting Inc.

- Lines of Authority
- Escalation Matrix
- Submittals Requirements
- Work Schedule / CPM Schedule
- Utility Schedules

AGENDA

"This meeting is being recorded and will become part of

1) Project Description – the improvements under
Resurfacing, Base Work, Shoulder Treatment, Drai
Traffic Signals, Lighting, Highway Signing, Bridge,
incidental construction on SR-100 in Bradford Coun

2) Delineation of Lines of Authority –

Contractor (JBCCI)	
Eddie Greene	C: (904) 759-6174
Chuck Chaon	C: (904) 716-2651
Todd Dille	C: (904) 334-9298
Consultant (GPI)	
Sandra Bucklew, PE	C: (850) 528-1800
Shannon Mobley	C: (904) 716-8786
Robert Mullin	C: (904) 537-3947
Peyton Bennett	C: (904) 716-8273
Jason Cronk	C: (904) 591-0048
FDOT	
Alex Ruiz, PE	O: (352) 381-4226
Frank Suarez, PE	O: (352) 381-4201

Escalation Issue Matrix		
Contractor	**Consultant**	**FDOT**
Superintendent(s)	Sr. Inspectors	
Project Manager Matt Dennis	Project Administrator/Asst. Project Administrator Shannon Mobley Robert Mullin	
Director of Operations Eddie Greene	Sr. Project Engineer Sandra Bucklew, PE	Project Manager Alex Ruiz, PE
Director of Operations Eddie Greene	Sr. Project Engineer Sandra Bucklew, PE	Resident Engineer Joaquin Olivella, PE

Pre-Construction / Pre-Utility Meetings

Rule 14-46.001 F.A.C
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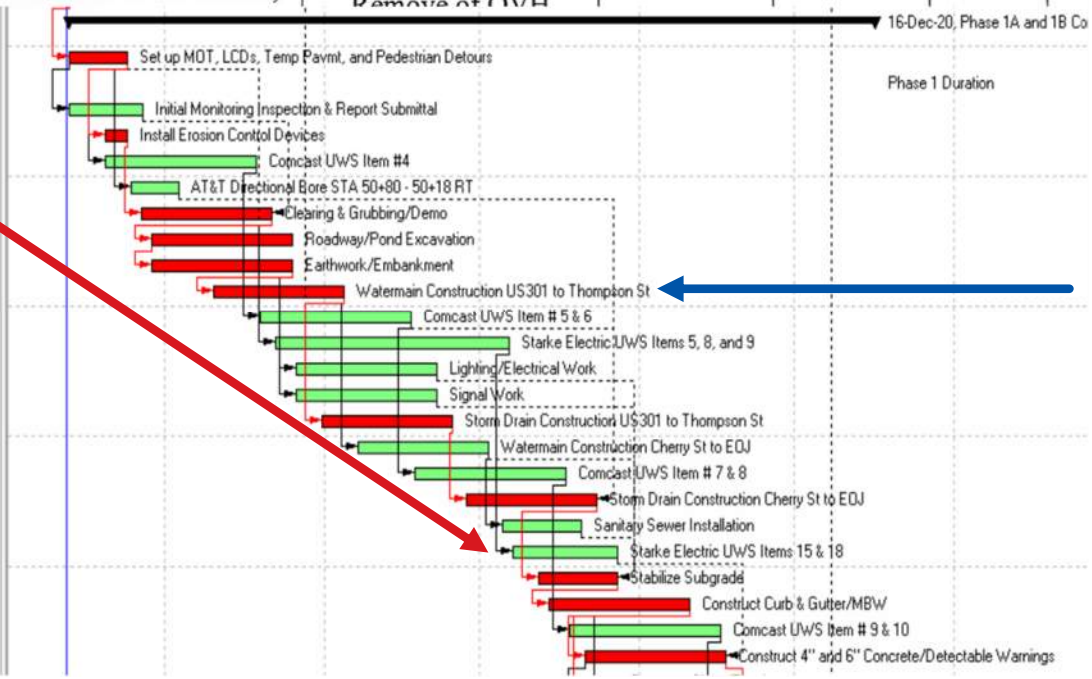
FLORIDA DEPARTMENT OF TRANSPORTATION
UTILITY WORK SCHEDULE

December 14, 2016

18	Tie-Line- OVH Three Phase 477 AAC Feeder	118+84 35'RT	125+19 60'RT	Tie- Line Install Overhead Electric Feeder-Install Poles, services, transformers,	Relocated to South St-Crossing Service Center building	N/A	10	20
	St. Clair St. Circuit							
19	OVH Three Phase 477 AAC Feeder	51+57 31'RT	55+22 42'RT	Install Overhead Electric Feeder, Poles and guying	Confirm ROW Issues	N/A	10	0
	OVH Three Phase	55+22		Remove OVH Feeder;	Remove of OVH			

Phase 1A and 1B Construct South		111	111	0%	13-Jul-20	16-Dec-20
1120	Set up MOT, LCDs, Temp Pavmt, and Pede	10	10	0%	13-Jul-20	24-Jul-20
1110	Phase 1 Duration	157	157	0%	13-Jul-20	16-Dec-20
1137	Initial Monitoring Inspection & Report Submit	11	11	0%	13-Jul-20	27-Jul-20
1140	Install Erosion Control Devices	5	5	0%	20-Jul-20	24-Jul-20
1127	Comcast UWS Item #4	30	30	0%	20-Jul-20	28-Aug-20
1121	AT&T Directional Bore STA 50+80 - 50+18 F	10	10	0%	25-Jul-20	03-Aug-20
1160	Clearing & Grubbing/Demo	20	20	0%	27-Jul-20	21-Aug-20
1200	Roadway/Pond Excavation	20	20	0%	29-Jul-20	25-Aug-20
1220	Earthwork/Embankment	20	20	0%	29-Jul-20	25-Aug-20
1240	Watermain Construction US301 to Thompso	20	20	0%	10-Aug-20	04-Sep-20
1129	Comcast UWS Item # 5 & 6	30	30	0%	19-Aug-20	17-Sep-20
1123	Starke Electric UWS Items 5, 8, and 9	46	46	0%	22-Aug-20	06-Oct-20
1230	Lighting/Electrical Work	20	20	0%	26-Aug-20	22-Sep-20
1235	Signal Work	20	20	0%	26-Aug-20	22-Sep-20
1260	Storm Drain Construction US301 to Thomps	20	20	0%	31-Aug-20	25-Sep-20
1250	Watermain Construction Cherry St to EOJ	20	20	0%	07-Sep-20	02-Oct-20
1131	Comcast UWS Item # 7 & 8	30	30	0%	18-Sep-20	17-Oct-20
1280	Storm Drain Construction Cherry St to EOJ	20	20	0%	28-Sep-20	23-Oct-20
1255	Sanitary Sewer Installation	12	12	0%	05-Oct-20	20-Oct-20
1125	Starke Electric UWS Items 15 & 18	21	21	0%	07-Oct-20	27-Oct-20
1300	Stabilize Subgrade	12	12	0%	12-Oct-20	27-Oct-20
1320	Construct Curb & Gutter/MBW	20	20	0%	14-Oct-20	10-Nov-20
1133	Comcast UWS Item # 9 & 10	30	30	0%	18-Oct-20	16-Nov-20
1340	Construct 4" and 6" Concrete/Detectable W	20	20	0%	21-Oct-20	17-Nov-20



Utilities In Construction Contracts

Joaquin Olivella, P.E.
Florida Department of Transportation
District 2 Gainesville Construction Engineer

Contract Documents - Utilities

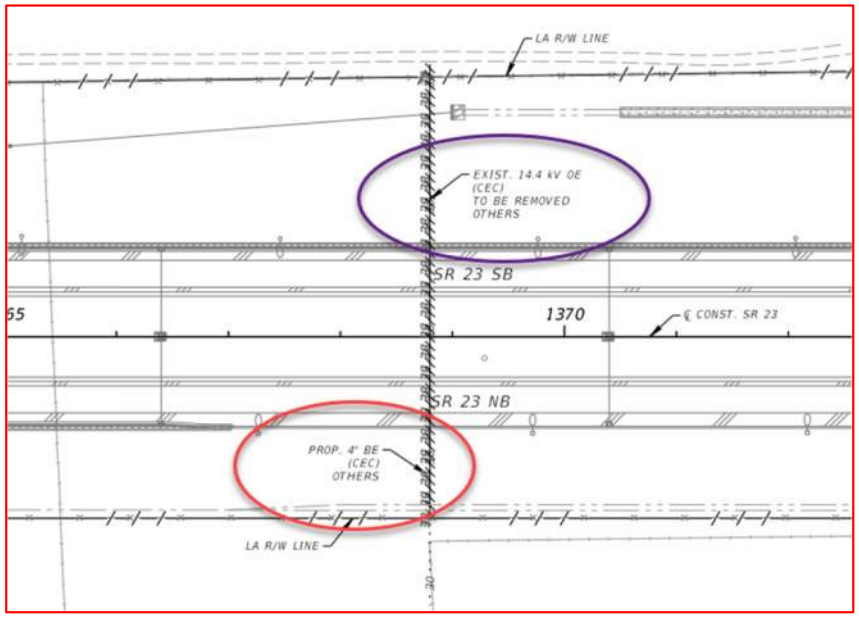
- **Utility Work Schedules**
  - Contract document to be adhered to
  - Utility Permit
    - One-Stop-Permitting website
  - Engineer of Record review
  - Utility Adjustment Sheets

Contract Documents - Utilities

- Utility Work Schedules

SECTION C: UAO's WORK ACTIVITIES

Act. No.	Utility Facility (type, size, material, status)	From Station/ Offset	To Station/ Offset	Utility Work Activity Description	Dependent Activity	TCP Phase	Consecutive Calendar Days Prior to Const.	During Const.
1	Overhead & Underground Electric			Engineering/Material Procurement/Permitting	Notice to Commence		60	
2	Overhead & Underground Electric			Survey/Site to Grade & Level Areas for Electric	Notice to Commence		30	
3	Set New Poles outside of ROW & Raise 230kV Overhead Electric	1219+00	1226+00	Set 2 New Poles & Raise 230kV Overhead Electric	Act 1		10	
4	Remove Poles in ROW	1219+00	1226+00	Remove 2 Poles	Act 3		5	
5	Relocate 14.4kV Overhead Electric to Buried Electric	1358+00	1359+00	Set 1 Pole & Install 14.4kV Buried Electric	Act 1 & 2		10	
6	Remove Pole in ROW & 14.4kV Overhead Electric	1358+00	1359+00	Remove 1 Pole & 14.4kV Overhead Electric	Act 5		5	
7	Relocate 14.4kV Overhead Electric to Buried Electric	1368+00	1368+00	Install 14.4kV Buried Electric	Act 1 & 2		10	
8	Remove Pole in ROW & 14.4kV Overhead Electric	1368+00	1368+00	Remove 1 Pole & 14.4kV Overhead Electric	Act 7		5	
	Remove Pole in ROW &			Remove 1 Pole & 230kV				



Rule 14-46.001 F.A.C.
Page 1 of 3

FLORIDA DEPARTMENT OF TRANSPORTATION
UTILITY PERMIT

December 14, 2016

PERMIT NO: 2018-H-297-326

STATE ROAD INFORMATION

County:	Section:	State Road No:	Beginning Mile Post:	Ending Mile Post:
Clay		CR 739B	0	0

APPLICANT INFORMATION

The Utility Agency Owner (UAO) shall be identified in this Applicant Information Box. When the UAO is a City or County and desires to have the Utility Builder make a joint permit applicant, as prescribed in Section 2.1(4) of the 2017 Utility Accommodation Manual (UAM), the Utility Builder shall also be identified in this Applicant Information Box. A Utility Builder alone cannot apply for a utility permit without the City or County adding them as a joint applicant.

	Utility Agency/Owner (UAO)	Utility Builder (only applicable when the UAO is a City or County)
Name:	Clay Electric Cooperative, Inc. Central Engineering	
Contact Person:	Clay Electric Cooperative, Inc. Central Engineering	
Address:	P.O. Box 308	
City:	Keystone Heights	
State:	Florida	
Zip:	326560308	
Telephone:	35247380008428	
Email:	cbryan@clayelectric.com	

WORK DESCRIPTION

The Applicant(s) requests permission from the Florida Department of Transportation (FDOT) to construct, operate, and maintain the utilities as described below and as depicted in the incorporated documentation.

Install a 550' bore with 3 - 3" PVC conduits going between two existing overhead poles for a dip under the future overpass, and remove existing overhead. This will require Action Numbers 1, 2, 5, & 6 on the Utility Work Schedule for this project

Utility Work No: 258973

Additional sheets are attached and are incorporated into this permit Yes ☑ No ☐

For FDEP certification, the FDOT agency report is attached in accordance with UAM Section 2.4.1 (13) Yes ☐ No ☑

Contract Documents - Utilities

- **Utility Work by Highway Contractor**
  - Work included as part of the FDOT construction Contract
  - Acceptance by Utility Agency Owner (**UAO**)
  - May be 56 phase of 52 phase funding

Contract Documents - Utilities

- Utility Work by Highway Contractor

FDOT

Florida Department of Transportation

RICK SCOTT
GOVERNOR

1109 S. Marion Avenue
Lake City, FL 32025

MIKE DEW
SECRETARY

Clay County Utility Authority
3176 Old Jennings Road
Middleburg, FL 32068

RE: UTILITY WORK BY HIGHWAY CONTRACTOR AGREEMENT (AT FDOT EXPENSE)
FPID:
Federal No. –
County –
State Road –
Project Location –

Dear Mr. Damrow:

This is your approved **Utility Work Order No.1 /Notice to Proceed** in the amount of **$_____** as reflected in the Utility Estimate Summary for the engineering, construction and field work needed by Clay County Utility Authority (CCUA). The above amount is for the relocation of CCUA's facilities as covered the under the terms of the executed Utility Work by Highway Contractor Agreement (at FDOT Expense) dated May 1, 2018

All utility work must be documented and approved by the Department to be eligible for payment. All invoices must be in accordance with the executed Utility Work by Highway Contractor Agreement (at FDOT Expense), and related document as prepared by your company. All invoices and related documents must be submitted by the expiration date of this contract, which is **01/17/2026**.

The Florida Department of Transportation contract now includes a provision requiring the UAO to only use steel and iron produced in the United State, in accordance with the Buy America Provision of 23 CFR 635.410, as amended.

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION

UTILITY WORK BY HIGHWAY CONTRACTOR AGREEMENT
(AT FDOT EXPENSE)

Form No 710-010-21
UTILITIES
11/14

Financial Project ID:	**Federal Project ID:**
County: Clay	**State Road No.:**
District Document No: 1	
Utility Agency/Owner (UAO): Clay County Utility Authority (CCUA)	

THIS AGREEMENT, entered into this 1st day of May, year of 2018, by and between the **STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION**, hereinafter referred to as the "**FDOT**", and **Clay County Utility Authority (CCUA)**, hereinafter referred to as the "**UAO**";

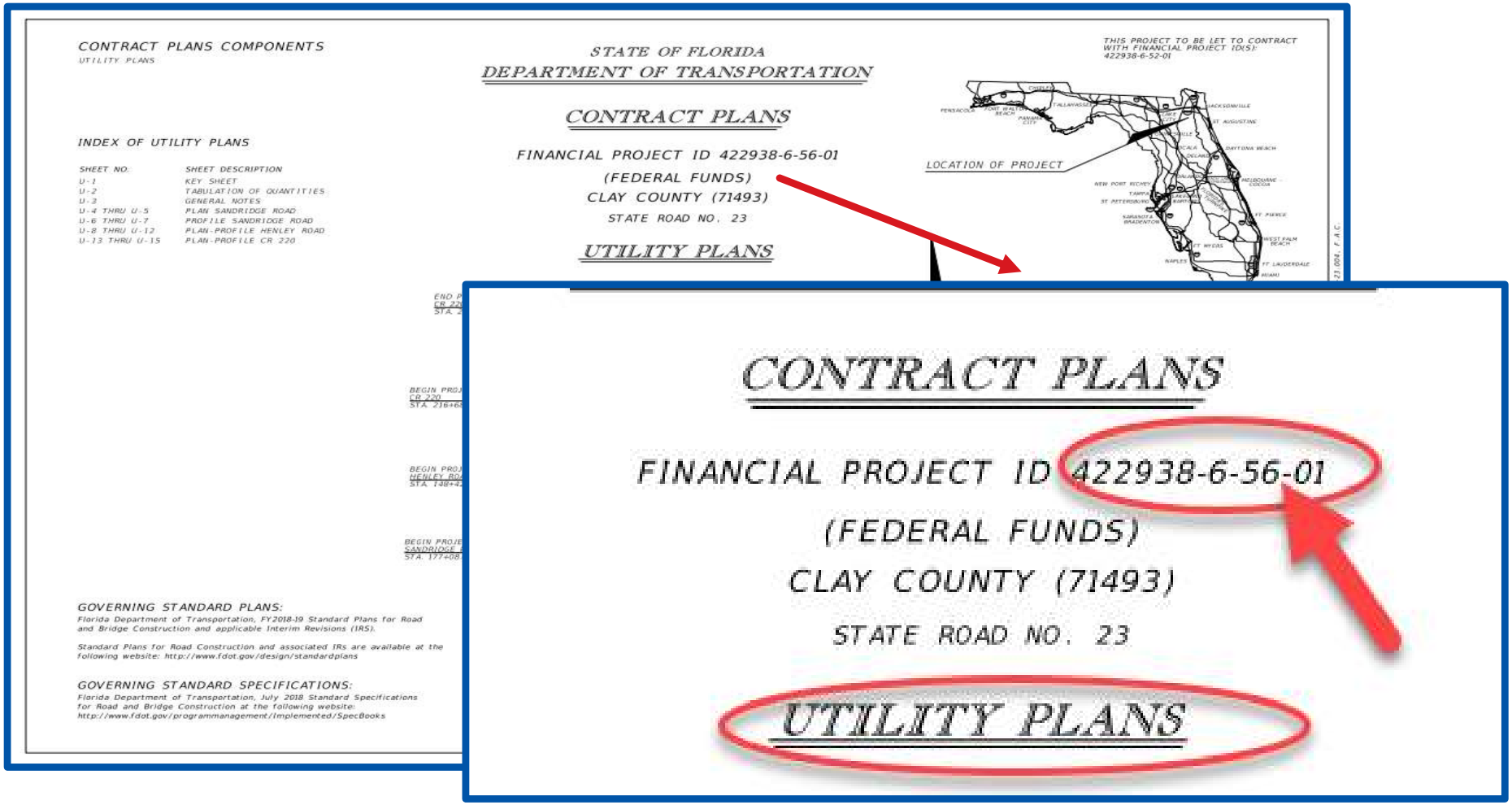
WITNESSETH:

WHEREAS, the **FDOT**, is constructing, reconstructing, or otherwise changing a portion of a public road or publicly owned rail corridor, said project being identified as _____, State Road No.:__, hereinafter referred to as the "Project"; and

FDOT

Contract Documents - Utilities

- Utility Work by Highway Contractor



Contract Documents - Utilities

- Utility Work by Highway Contractor

Section 0007 Utilities

Alt	Item ID	Item Description	Unit	Quantity
	0999 25	INITIAL CONTINGENCY AMOUNT, DO NOT BID 42293865601	LS	1.000
	1000 5	UTILITY WORK- JPA/UTILITY AGREEMENT, SEWER 42293865601	LS	1.000
	1000 6	UTILITY WORK- JPA/UTILITY AGREEMENT, WATER 42293865601	LS	1.000

SECTION T1000
CCUA UTILITY WORK

T1000-1 GENERAL

Except as expressly provided elsewhere in the Contract Documents, this Technical Special Provision applies only to the work described as follows, hereinafter referred to as the "CCUA Utility Work."

The CCUA Utility Work covered by this Technical Special Provision includes, but is not limited to construction of all water, non-potable water, and wastewater systems, wet taps and in-line stop valves; services; main line valves; fittings; subsequent placing out of service of existing mains and all other appurtenances required for a complete water and waste water system, as specified in this Technical Special Provisions and Contract Utility Plan Sheets.

In the event of a conflict between the CCUA Standards and any other Contract Documents, the Engineer shall determine which provisions apply based on the intent and purpose of the CCUA Utility Work. Notwithstanding any other provisions in the Contract Documents, the Contractor shall not be entitled to make a monetary claim or obtain an extension of the Contract Time based upon the Engineer's determination.

T1000-2 STANDARDS / DETAILS

All CCUA Utility Work and materials shall be in accordance with the following documents:

1. CCUA Standards and Details up to and including Revision 24 dated June 2017.
2. CCUA Approved Materials Manual dated April 2009 including all updates and revisions dated through November 16, 2017.

Utility Coordination

- **Utility Coordination**
  - All utilities within the corridor
  - Contractor
  - District Utilities Office
- **Inspections**
  - CEI Inspectors will document any activity performed on the project by a UAO
- **Utility not included in the Contract**
  - Utility permit
  - Must have an approved a UWS – exception is emergency repairs
  - Project Administrator responsibility
  - Contractor’s review
  - Approval may have to wait until project completion

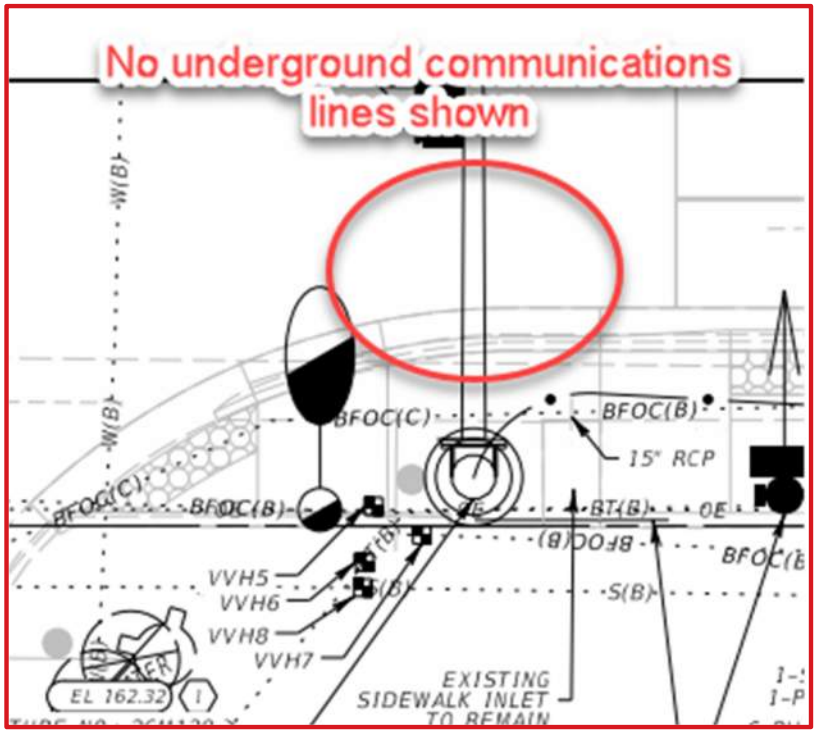
Preconstruction Best Practices

- **Contact the UAOs as soon as possible**
  - Discuss start of construction
  - Status of pre-construction utility work
  - Points of contact
- **Discuss with Contractor long time relocation efforts included in the Utility Work Schedule**
- **Field visits**
  - If necessary, call for utility locates
- **Read section 5.6 of CPAM**

Reoccurring Issues

- **Insufficient Utility Exploration**
  - UAO does not identify all of the UAO's underground lines within the corridor
  - Abandoned lines not shown in the plans
  - Incorrect utility line size shown in the plans
  - Constructability conflicts (i.e. equipment size)
- **Overhead lines**
  - Insufficient clearance for proposed features
  - Insufficient clearance for work equipment
- **Utility damages**
  - Contractor's Crew
- **Utility Permits not taken into account in the Contract**

Reoccurring Issues



Reoccurring Issues

SECTION C: UAO's WORK ACTIVITIES

Act. No.	Utility Facility (type, size, material, status)	From Station/Offset	To Station/Offset	Utility Work Activity Description	Dependent Activity	TCP Phase	Consecutive Calendar Days Prior to Const.	Consecutive Calendar Days During Const.
1		567+21.00	572+60.00	ENGINEERING (DESIGN)	Final Plans		30	-
2	Concrete Pole, Luminaire, Arm	567+21.00	572+60.00	MATERIAL PROCUREMENT	Final Plans and will order 70 calendar days prior to need-by date per FDOT		70	-
3	Luminaire	567+21.00	121+60.00	REMOVE AND REPLACE EXISTING LUMINAIRE	Final Plans		-	1
4	Concrete Pole, Insulators, Luminaire, Arm	567+98.00	567+98.00	INSTALL AND FRAME A 55 FT CONCRETE POLE	Final Plans, Pole Location Stake		-	1
5	N/A	568+10.00	568+10.00	REMOVE EXISTING POLE	Act. No. 6		-	1
6	Concrete Pole, Luminaire, Arm	568+40.00	568+40.00	INSTALL AND FRAME A 40 FT CONCRETE POLE	Final Plans, Pole Location Stake		-	1
7	Luminaire, Service Riser	569+01.00	569+01.00	REMOVE AND REPLACE EXISTING LUMINAIRE	Final Plans, Service Enclosure Installed		-	1

SECTION C: UAO's WORK ACTIVITIES

Act. No.	Utility Facility (type, size, material, status)	From Station/ Offset	To Station/ Offset	Utility Work Activity Description	Dependent Activity	TCP Phase	Consecutive Calendar Days Prior to Const.	Consecutive Calendar Days Durin Cons
1				ENGINEERING (DESIGN)				
2				PERMITTING				
3				MATERIAL PROCUREMENT				
4	(3)-1.25" Ducts with a 144 Count UG FOC	565+80 LT	571+80 LT	Locate, protect and designate, adjust as required	N/A	All Phases	0	5

FDOT ACEC

PM ACADEMY

Construction Phase

FDOT ACEC

PM ACADEMY

Introduction to Contract Documents

Greg Graden, P.E.
JEACES
Senior Project Engineer

Contract Documents

- CEI teams are tasked with administration of the construction Contract.
- What comprises the Contract?
  - Section 1-3 of the FDOT Standard Specifications defines the term "*Contract*" as "*the entire and integrated agreement between the parties thereunder and supersedes all prior negotiations, representations, or agreements, either written or oral. The Contract Documents form the Contract between the Department and the Contractor setting forth the obligations of the parties thereunder, including, but not limited to, the performance of the Work and the basis of payment.*"

Contract Documents

Specification Section 1-3 also notes that the term "*Contract Documents*" includes: "*Advertisement for Proposal, Proposal, Certification as to Publication and Notice of Advertisement for Proposal, Appointment of Agent by Nonresident Contractors, Noncollusion Affidavit, Warranty Concerning Solicitation of the Contract by Others, Resolution of Award of Contract, Executed Form of Contract, Performance Bond and Payment Bond, Specifications, Plans (including revisions thereto issued during construction), Estimated Quantities Report, Standard Plans, Addenda, or other information mailed or otherwise transmitted to the prospective bidders prior to the receipt of bids, work orders and supplemental agreements, all of which are to be treated as one instrument whether or not set forth at length in the form of contract.*"

Contract Documents

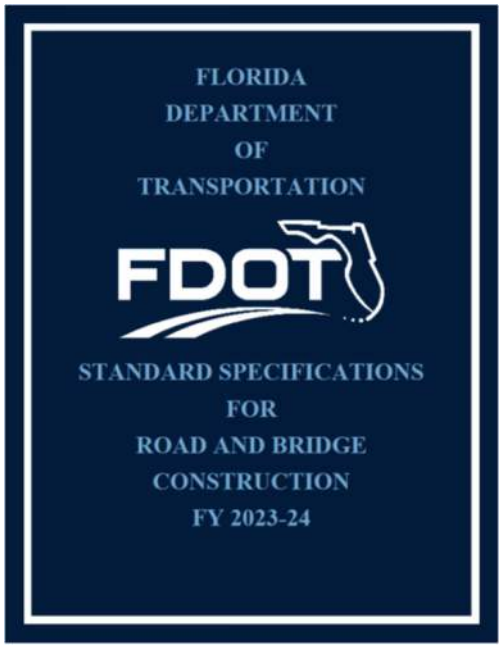
- For Design-Build Contracts, the list of Contract Documents also includes the Request for Proposal (RFP), the Design and Construction Criteria Package, the Technical and Price Proposal, Design Liability Insurance, and written statements or transcripts or minutes of oral representation by Design-Build Firm made at oral presentations.

- However, Design-Build Contracts do not identify the Estimated Quantities Report as a Contract Document.

Contract Documents

- Section 5-2 of the FDOT Standard Specification shows how the Contract Documents work together and provides the following governing order of the documents:

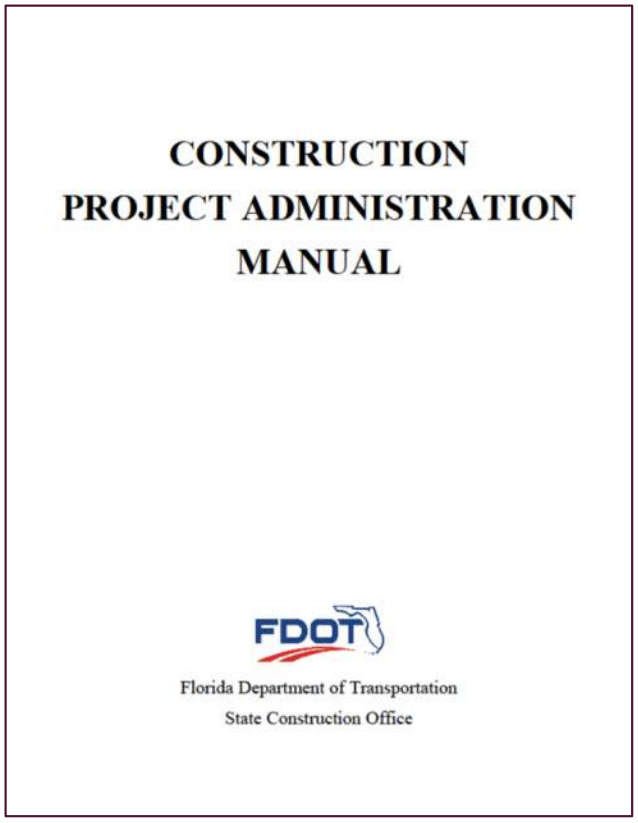
1. Special Provisions
2. Technical Special Provisions
3. Plans
4. Standard Plans
5. Developmental Specifications
6. Supplemental Specifications
7. Standard Specifications

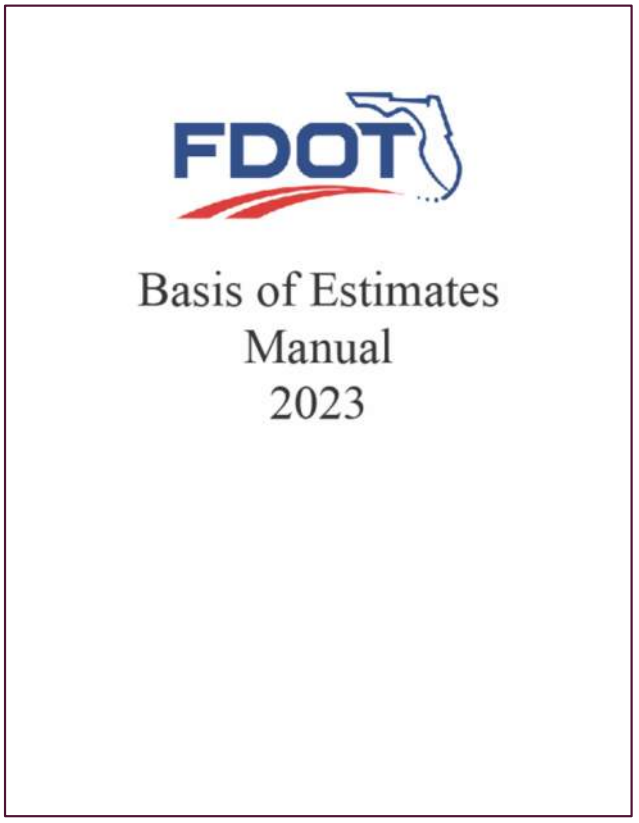


- For Design-Build Contracts, this list also includes the Request for Proposal Packages as the highest governing document.

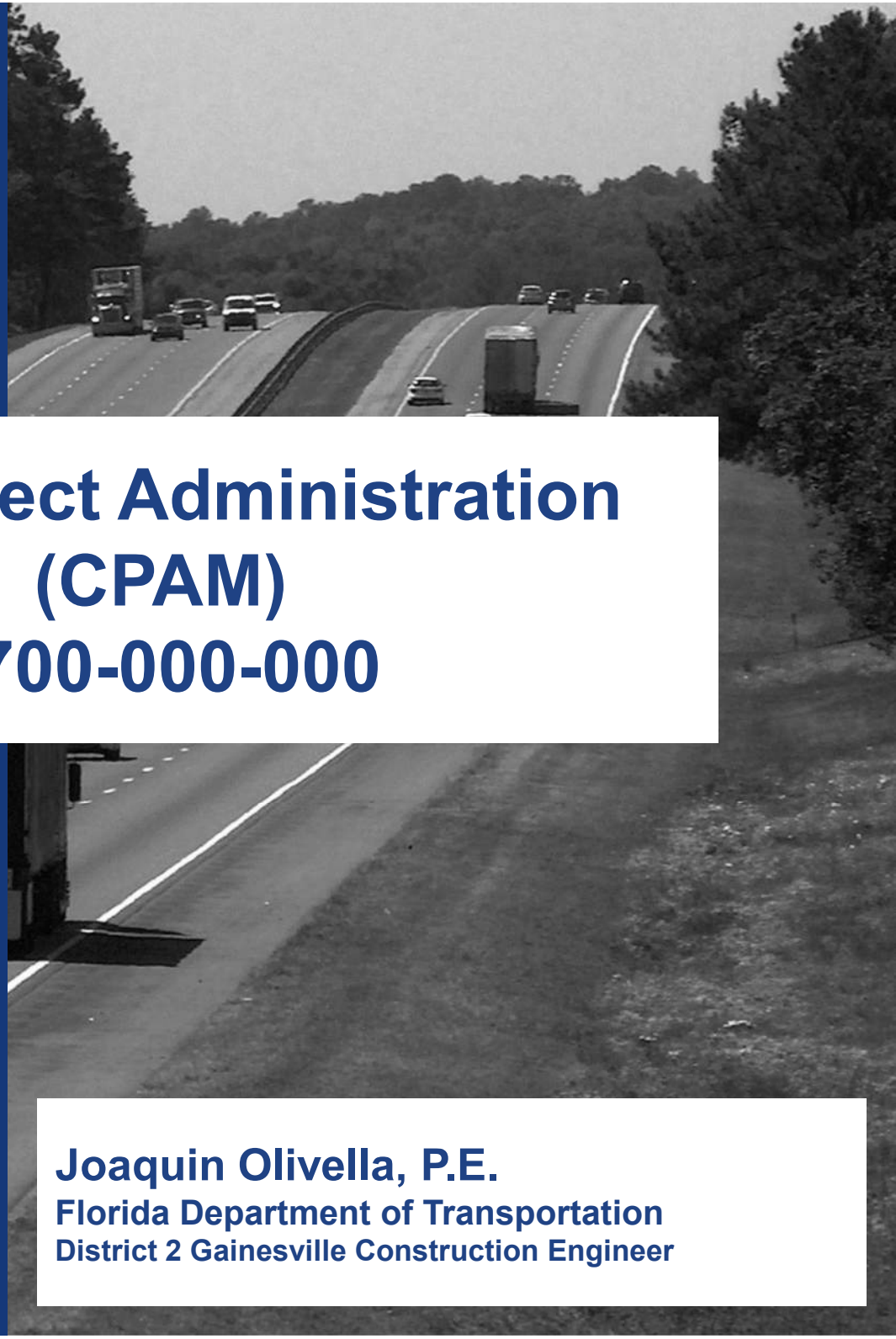
Contract Documents

- Of note are publications that <u>are not</u> identified as Contract Documents such as CPAM and the Basis of Estimates Manual.





FDOT



Construction Project Administration Manual (CPAM) Topic No. 700-000-000

Joaquin Olivella, P.E.
Florida Department of Transportation
District 2 Gainesville Construction Engineer

CPAM

- **What is CPAM?**
  - 800+ pages of information; 13 chapters and multiple sub-sections
  - Provides instructions to Construction personnel for managing Construction contracts to ensure consistency across the board
  - It is NOT a Contract document

- **How to read CPAM?**
  - References
  - Governing Florida Statues
  - Construction Operation or Contract Process
  - State level responsibilities
  - District level responsibilities
  - Resident level responsibilities
  - Sample letters and Exhibits

CPAM

- **CPAM Organization**
  - Introduction
  - Pre-Construction (Chapters 1 – 3)
    - Consultant CEI Contract Management
    - Project setup
    - Preconstruction
  - Construction Administration (Chapters 4 – 11)
    - Asphalt Paving; CQC; Contract Changes; Claims; Structures
  - Project Closeout (Chapters 12 – 13)
    - Final Estimates

CPAM – Noticeable Section

- **Chapter 4 – Administration of Consultant CEI Contracts**
  - Role of Consultant CEI
    - The authority of the CCEI's lead person, such as the Senior Project Engineer, and the Project Administrator shall be identical to the Department's Resident Engineer and Project Administrator respectively and shall be interpreted as such. Work through specific expectations for roles at pre-services meeting.

- **Chapter 5 – Project Documentation**
  - Project Diary
  - Equipment Rental
  - Utility Work
  - Federal Aid Project Requirements
  - Control of Materials
  - Final Estimates Documents

CPAM – Noticeable Section

- **Chapter 7 – Contract Modifications**
  - Time Extensions
  - Supplemental Agreements
  - Work Orders
- **Chapter 10 – Structures**
  - Foundations
  - Concrete Construction
  - Bridge Construction Issues
- **Chapter 11 – Asphalt**
  - Asphalt Lot
  - Quality Control
  - Asphalt Adjustments

CPAM

- How to access CPAM
  - http://www.fdot.gov/construction/manuals/cpam/CPAMManual.shtm

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Construction

Office of Construction / Documents & Publications

Construction Project Administration Manual
CPAM - 700-000-000

View CPAM Recent Revisions | View CPAM History Files

Construction Bulletins | Entire CPAM as Searchable File (*.pdf, 17mb) *Updated 7/11/18*

Chapter	Title	Revised	Contact Person	Last Review
	Cover Sheet (*.pdf, 35kb)			
	Introduction (*.pdf, 117kb)	1/23/2017	Larry Ritchie	9/2016
CHAPTER 1	PRE-LETTING ACTIVITIES			
1.1	Plans Review and Comments (*.pdf, 135kb)	6/27/17	Larry Ritchie	2/2017
1.2	Contract Duration and Alternative Contracting Techniques (*.pdf, 277kb)	1/30/18	Amy Tootle	12/2017

Contractor Past Performance Rating (CPPR) Process

Sandra Bucklew, P.E.
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Senior Project Engineer

Contractor's Past Performance Rating (CPPR)

- **Why?**
  - Objective Rating Process
  - Communicate Performance Issues
  - Performance Metrics
  - Improve Contractor Performance
  - Factor in Bidding Process
    - Rule 14-22 Florida Administrative Code: Impacts to pre-qualification and bidding capacity. The higher the average score, the higher the bidding capacity.

Contractor's Past Performance Rating (CPPR)

- **Communication**
  - Reasonable and Fair Administration
  - Notifications
    - Verbal Warning
    - Deficiency Warning Letter
    - Deficiency Letter
  - Documentation
  - Address Issues Proactively

Contractor's Past Performance Rating (CPPR)

- **Categories**

1) Pursuit of the Work (12)
2) *Proper MOT and Minimize Impact to Traveling Public (12)*
3) *Timely & Complete Submittal of Documents (8)*
4) Timely Completion of Project (14/20)
5) *Coordination/Cooperation with CEI, Property Owners & Utility Companies (10)*
6) *Mitigate Cost and Time Overruns (12)*
7) *Environmental Compliance (10/12)*
8) Conformance with Contract Documents (20)
9) DBE Utilization (0/4)

Contractor's Past Performance Rating (CPPR)

- **Categories**

1) Pursuit of the Work (12)

2) *Proper MOT and Minimize Impact to Traveling Public (12)*

3) *Timely & Complete Submittal of Documents (8)*

4) Timely Completion of Project (14/20)

5) *Coordination/C*

6) *Mitigate Cost &*

7) *Environmental*

8) Conforma

9) DBE Utiliz

4. Timely Completion of Project - The contractor completes the project in a timely manner.

20	*	The contractor finished the project within the original contract time. (no adjustments for weather)
18	*	The contractor finished the project within 90% of allowable contract time.
16	*	The contractor finished the project within 95% of allowable contract time.
14	*	The contractor finished the project within the allowable contract time.
7		The contractor did not complete the project within the allowable contract time, but did finish the project in less than 10% over the allowable contract time.
0		The contractor completed the project more than 10% over the allowable contract time.
*		14 is the normal, expected standard because the vast majority of the projects finish within the allowable time. A score of up to 20 is a bonus, which recognizes that a contractor may have to work thru weather, utilities, added work, or other unforeseen conditions or delays.

Contractor's Past Performance Rating (CPPR)

- **Categories**

1) *Pursuit of the Work (12)*
2) Proper MOT and Minimize Impact to Traveling Public (12)
3) Timely & Complete Submittal of Documents (8)
4) *Timely Completion of Project (14/20)*
5) Coordination/Cooperation with CEI, Property Owners & Utility Companies (10)
6) Mitigate Cost and Time Overruns (12)
7) Environmental Compliance (10/12)
8) *Conformance with Contract Documents (20)*
9) *DBE Utilization (4)*

Contractor's Past Performance Rating (CPPR)

- **Categories**
  1) Pursuit of the Work (12)
  2) *Proper MOT and Minimize Impact to Traveling Public (12)*
  3) *Timely & Com*
  4) Timely Compl
  5) *Coordination/*
  6) *Mitigate Cost*
  7) *Environmenta*
  8) Conformance
  9) DBE Utilizatio

	Performance	Maximum Value		Rated Value
1.	Pursuit of the Work.	12		12
2.	Proper MOT and Minimize Impacts to Traveling Public.	12		6
3.	Timely and Complete Submittal of Documents.	8		6
4.	Timely Completion of Project.	14/20	note #4	14
5.	Coordination / Cooperation with CEI Personnel, Property Owners and Utilities Company.	10		8
6.	Mitigate Cost and Time Overruns.	12		12
7.	Environmental Compliance.	10/12	note #4	8
8.	Conformance With Contract Documents.	20		19
9.	DBE Utilization	0/4	note #4	0
	Total Score	98/100		85

Contractor's Past Performance Rating (CPPR)

- **Appeals**
  - Deficiency letters issued by Operations Center Engineer/Resident Engineer can be rescinded with concurrence from DCE
  - Verbal Warning and DWL cannot be appealed
  - Contractor can appeal a Deficiency Letter to DCE … Timely notice required
  - Contractor can appeal the Final Score to DCE
  - Appeal should be based on facts

Contractor's Past Performance Rating (CPPR)

- **What if…**
  - Can a Contractor's rating be affected in more than one category for the same infraction?
  - How do you address CPPR for a Design-Build contract during final design phase?

PM ACADEMY

BREAK (10 Minutes)

Schedules and Contract Time

Greg Graden, P.E.
JEACES
Senior Project Engineer

Schedules and Contract Time

- Once a Contract is awarded, the Contractor is required to submit a Contract Schedule that "*shows the various activities of work in sufficient detail to demonstrate a reasonable and workable plan to complete the project within the Contract Time*." (ref. Specification Section 8-3.2)

- Schedules are important tools that the Contractor should use to progress work on the project and the CEI should use to measure that progress.

- Schedules are relied upon by the Contractor and CEI to determine the appropriateness and extent of a claim and/or Time Extension.

- One of our jobs as a CEI is to evaluate the initial baseline schedule as well as any required updates. It is important to note that the CEI "accepts" but does not "approve" the Contractor's schedule.

Schedules and Contract Time

- Depending on the complexity or cost of the project, the schedule may be submitted in a Bar Chart or a Critical Path Method (CPM) format.
- Typically, the Department will accept Bar Charts for projects less than $10M. This threshold was raised from $5M a few years ago.
- Depending on its complexity, a project that is greater than $10M may only require a bar chart schedule.
- The requirements for these schedules will be found in:
  - Standard Specification Section 8-3.2 for Bar Charts
  - Special Provision Section 8-3.2 for CPMs

Schedules and Contract Time

- Both types of schedules should:
  - Show the order and interdependence of activities and the sequence for accomplishing the work.
  - Describe all activities in sufficient detail so that the Engineer can readily identify the work and measure the progress on of each activity.
  - Show each activity with a beginning work date, a duration, and a monetary value.
  - Include activities for procurement fabrication, and delivery of materials, plant, and equipment, and review time for shop drawings and submittals.

Schedules and Contract Time

- Both types of schedules should:
  - Include milestone activities when milestones are required by the Contract Documents.
  - Adequately identify each phase and its completion date, and do not allow activities to span more than one phase when projects have more than one phase.
  - Incorporate any utility work schedules included in the Contract Documents unless the utility company and the Department mutually agree to changes to the utility schedules shown in the Contract.

CPM Submittals Include:

- Electronic schedule file in Oracle Primavera P6 format
- A Gantt chart grouped by Work Breakdown Structure (WBS)
- A Gantt chart that is not grouped by WBS but sorted by early start, then early finish
- The schedule log
- A schedule narrative.
  - The narrative is a very important component of the submittal and is to include the following information:

CPM Narrative Includes:

a. Current project schedule status and identify potential delays.

b. A description of the progress made since the previous schedule submission.

c. Objectives for the upcoming 30 calendar days.

d. Indicate if the project is on schedule, ahead of schedule or behind schedule.

1. If ahead or behind schedule, indicate the specific number of calendar days.

2. If behind schedule, include a detailed recovery plan that will put the schedule back on track or identify the alleged delay event for which a preliminary request for an extension of Contract Time has been submitted, which if granted by the Department, will account for the amount of time the project is behind schedule, or provide a fully supported request for a Contract Time extension, which if granted by the Department, will account for the amount of time the project is behind schedule.

CPM Narrative Includes:

e. Description of the current critical path and indicate if the critical path has changed in the last 30 calendar days.

f. Discussion of current successes or problems that have affected either the critical path's length or have caused a shift in the critical path within the last 30 calendar days.

g. Identify specific activities, progress, or events that may reasonably be anticipated to impact the critical path within the next 30 calendar days, either to affect its length or to shift it to an alternate path.

h. List all changes to schedule logic, calendars, calendar assignments, activity types, activity names, changes to constraints, added activities or duration changes (original and remaining) that have been made to the schedule since the previous submission. For each change, describe the basis for the change and specifically identify the affected activities by activity ID.

i. Identify any and all activities, either in progress or scheduled to occur within the following 30 days that require Department participation, review, approval, etc.

Schedules and Contract Time

- The content of a CPM schedule is to include:
  - Submittal activities
  - Procurement activities
  - Activities of the Department or Utilities that affect progress and contract-required dates for completion of all or parts of the work.

Other Requirements for CPM Schedules

1. All activities shall be assigned to a specific project calendar.

2. The Contractor must provide a cost account drawdown schedule depicting amount earned by month through project completion.

3. Activities should be assigned codes that identify the appropriate MOT phase and identify the Responsible Party (Department, Utility, etc.) if the activity is not in control of the Contractor.

4. Key milestones which, at a minimum, will include the start and finish of each Maintenance of Traffic phase or subphase.

5. Non-procurement activities must be less than or equal to 20 workdays.

6. Each activity should include a detailed description.

Other Requirements for CPM Schedules

7. Only two open-ended activities (the first and the last) are allowed.

   - You should also check for activities that are essentially open-ended.
   - One example is when an activity does not include a finish side successor with either a Finish-to-Start or a Finish-to-Finish type relationship. In these cases, there is nothing that depends on the completion of the activity. In the following scenario, Activity 1 is essentially open-ended if this is the sole successor relationship:
     - Activity 1 → Start-to-Start → Activity 2
   - Similarly, an activity may not include a start side predecessor with either a Start-to-Start or a Start-to-Finish type relationship. In these cases, there is nothing that depends on the commencement of the activity. In the following scenario, Activity 2 is essentially open-ended if this is the sole predecessor relationship:
     - Activity 1 → Finish-to-Finish → Activity 2

Other Requirements for CPM Schedules

8. Constraints shall only be used for “project start” and “project completion” and shall not override logic.

9. Out of sequence progress shall be corrected on each monthly update by modifying the schedule logic so that the logic accurately depicts the actual sequence of the work. The Retained Logic setting shall be used when calculating the schedule.

10. All changes to activities shall be recorded with a note in the activity notebook field.

11. The use of resource leveling, either manual or automatic, is prohibited.

12. Activities shall not be deleted from the schedule. If an activity is not required, then upon approval from the Engineer, the Contractor shall provide actual start and finish dates equal to the date of the Engineer’s approval, shall add the word “Removed” to the activity name and shall make a notebook entry explaining the reason for removing the activity from the planned work.

Other Requirements for CPM Schedules

13. Activities shall be added to the schedule upon notifying the Engineer when it is determined that a Contract work element was omitted from the previous accepted Contract schedule or update or if work is added to the Contract, or to reflect a time extension in accordance with 8-7.3.2.

14. Activity names shall only be changed to reflect changes to the scope of the work element represented by the activity, not as a way to remove and replace activities. Changes to activity names shall be approved by the Engineer.

15. Unless otherwise approved by the Engineer, activity types shall be defined as milestones, level-of-effort, WBS summary or task dependent. Resource dependent type shall not be used. All activities shall have percent complete type set to duration and duration type set to either fixed duration and unit/time or fixed duration and units.

Schedules and Contract Time

Important definitions include:

- Float is defined as the amount of time the finish of an activity can be delayed. Two kinds of float are possible: Total float is how much an activity can be delayed without affecting the finish date of the project or an intermediate deadline (constraint); it is the difference between the late finish date and the early finish date. Free float is how much an activity can be delayed without affecting its earliest successor.

- The critical path is defined as the longest path and is represented by the longest logical path through the remaining activities, resulting in the earliest calculated completion date.

Schedules and Contract Time

- On Design-Build projects, the Design-Build Firm is to submit a CPM schedule for the first 20% of Contract Time within 30 days of Contract execution or at the preconstruction conference, whichever is earlier.

- A second CPM schedule for the remainder of Contract Time is to be submitted prior to completion of the first 20% of Contract Time.

Schedules and Contract Time

There are several excellent resources available to assist with your review of the schedules including:

- CPAM Section 2.1, Project Scheduling
- Checklists like the one prepared by FDOT D3
- Primavera P6's Schedule Comparison tool
- Third party analysis programs such as Zummer
- The National Highway Institute's course entitled *Successfully Managing Construction Schedules and Risk*

Schedules and Contract Time

Evaluation and comparison of pre-event and post-event CPM schedules are key components in the evaluation of a Contractor's Time Extension request.

Per Specification Section 8-3.2.7, Time Extensions:

- The Contractor is responsible for submitting a request for Contract Time extension in accordance with 8-7.3.2.

- An extension of time shall be considered only to the extent that an event impacts the completion date of the schedule such that the impacted completion date is later than the Contract completion date as adjusted previously.

Schedules and Contract Time

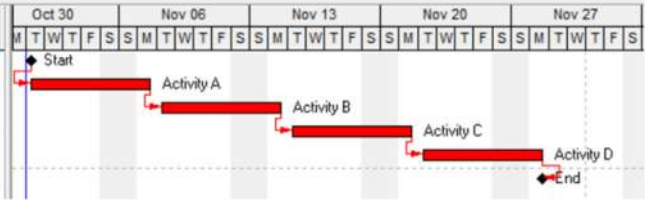
The following examples showing comparisons of baseline, pre-event, and post-event CPM schedules were prepared by Bill Adams, PE - Sr. Project Engineer with Consor Engineers, LLC

Baseline Schedule

Activities | Projects

Layout: Classic Schedule Layout | Filter: All Activities

Activity ID	Activity Name	Activity Type	Calendar	Original Duration	Remaining Duration	Duration % Complete	Start	Finish	Total Float
1000	Start	Start Milestone	Standard 5 Day Workweek	0	0	0%	01-Nov-22		0
2000	Activity A	Task Dependent	Standard 5 Day Workweek	5	5	0%	01-Nov-22	07-Nov-22	0
3000	Activity B	Task Dependent	Standard 5 Day Workweek	5	5	0%	08-Nov-22	14-Nov-22	0
4000	Activity C	Task Dependent	Standard 5 Day Workweek	5	5	0%	15-Nov-22	21-Nov-22	0
5000	Activity D	Task Dependent	Standard 5 Day Workweek	5	5	0%	22-Nov-22	28-Nov-22	0
9000	End	Finish Milestone	Standard 5 Day Workweek	0	0	0%		28-Nov-22	0



Schedules and Contract Time

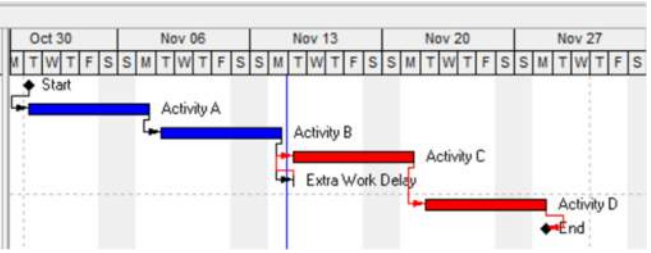
- The Pre-event Schedule is defined as the latest accepted update of the Contract schedule, statused (actual start dates added, actual finish dates added, remaining durations adjusted) to the end of the day before the start of the event.

Pre-Event Update Schedule

Delay activity has been added, but the duration is at 0 days. Completion date is 11/28/2022.

Layout: Classic Schedule Layout | Filter: All Activities

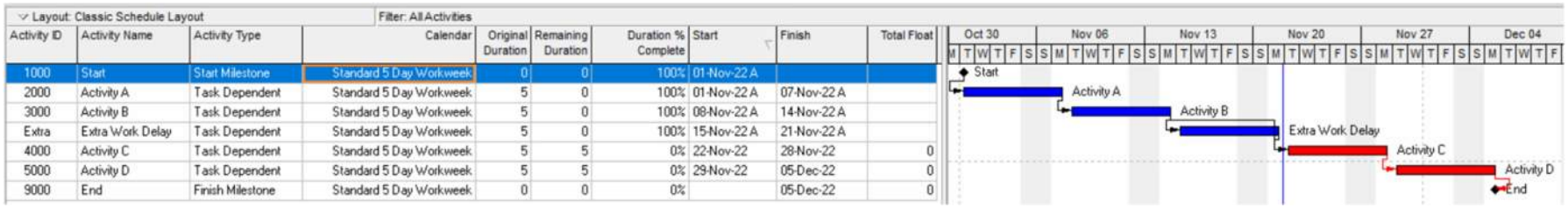
Activity ID	Activity Name	Activity Type	Calendar	Original Duration	Remaining Duration	Duration % Complete	Start	Finish	Total Float
1000	Start	Start Milestone	Standard 5 Day Workweek	0	0	100%	01-Nov-22 A		
2000	Activity A	Task Dependent	Standard 5 Day Workweek	5	0	100%	01-Nov-22 A	07-Nov-22 A	
3000	Activity B	Task Dependent	Standard 5 Day Workweek	5	0	100%	08-Nov-22 A	14-Nov-22 A	
4000	Activity C	Task Dependent	Standard 5 Day Workweek	5	5	0%	15-Nov-22	21-Nov-22	0
Extra	Extra Work Delay	Task Dependent	Standard 5 Day Workweek	0	0	0%	15-Nov-22	15-Nov-22	0
5000	Activity D	Task Dependent	Standard 5 Day Workweek	5	5	0%	22-Nov-22	28-Nov-22	0
9000	End	Finish Milestone	Standard 5 Day Workweek	0	0	0%		28-Nov-22	0



Schedules and Contract Time

- The Post-event Schedule is defined as the accepted update of the Contract Schedule just after the end of the event and destatused (actual start dates removed, actual finish dates removed, remaining durations adjusted) to the end of the last day of the event.

Post-Event Update without Mitigation
Delay activity has been statused to the end of the delay. Completion date is 12/5/2022.



Layout: Classic Schedule Layout | Filter: All Activities

Activity ID	Activity Name	Activity Type	Calendar	Original Duration	Remaining Duration	Duration % Complete	Start	Finish	Total Float
1000	Start	Start Milestone	Standard 5 Day Workweek	0	0	100%	01-Nov-22 A		
2000	Activity A	Task Dependent	Standard 5 Day Workweek	5	0	100%	01-Nov-22 A	07-Nov-22 A	
3000	Activity B	Task Dependent	Standard 5 Day Workweek	5	0	100%	08-Nov-22 A	14-Nov-22 A	
Extra	Extra Work Delay	Task Dependent	Standard 5 Day Workweek	5	0	100%	15-Nov-22 A	21-Nov-22 A	
4000	Activity C	Task Dependent	Standard 5 Day Workweek	5	5	0%	22-Nov-22	28-Nov-22	0
5000	Activity D	Task Dependent	Standard 5 Day Workweek	5	5	0%	29-Nov-22	05-Dec-22	0
9000	End	Finish Milestone	Standard 5 Day Workweek	0	0	0%		05-Dec-22	0

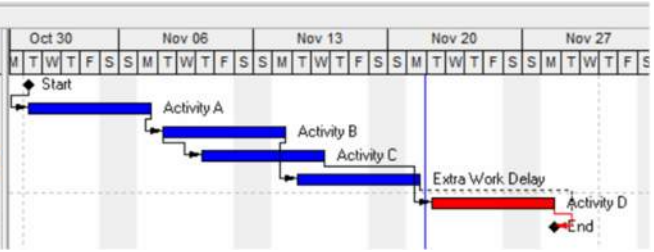
Schedules and Contract Time

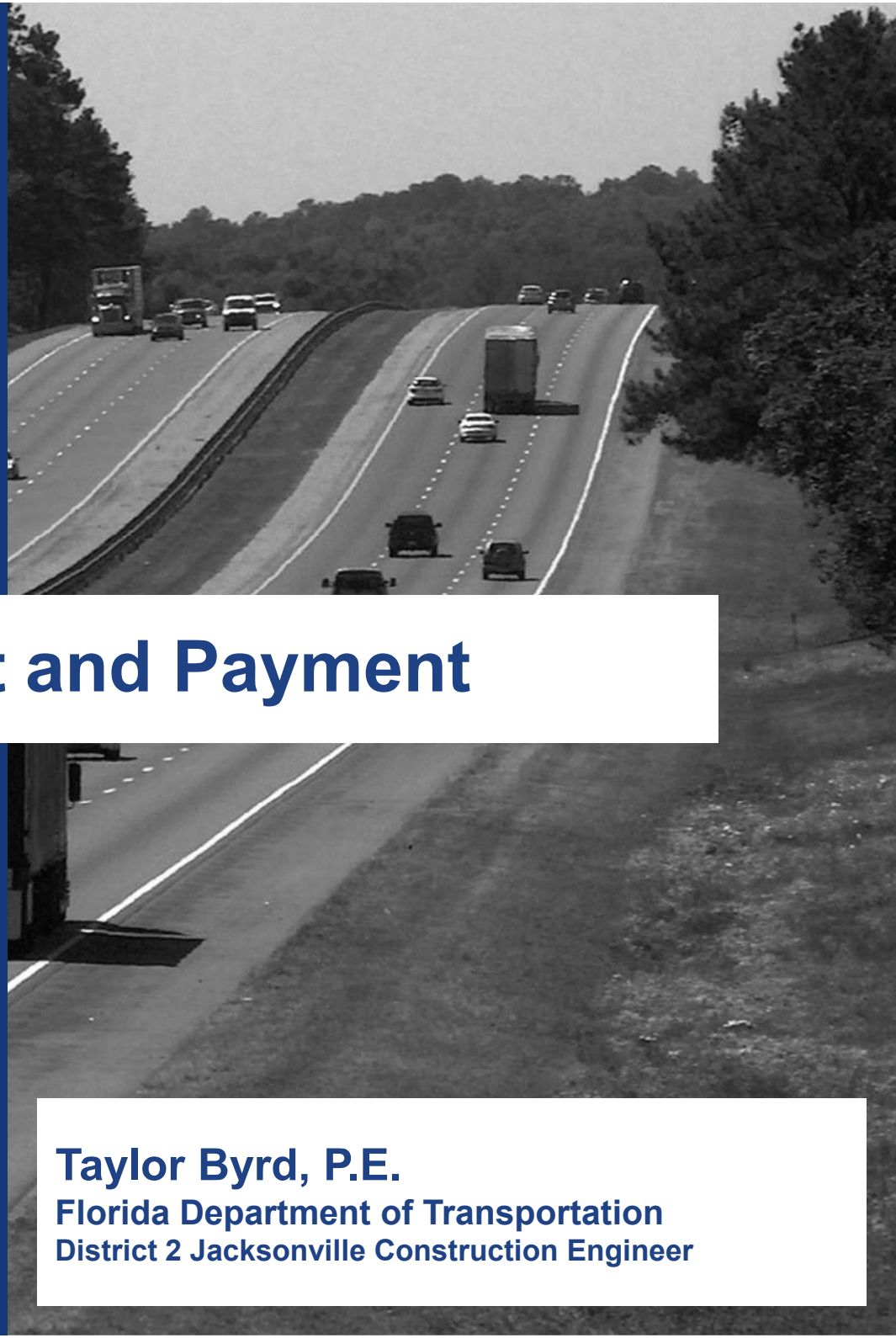
Post-Event Update with Mitigation

Delay activity has been statused to the end of the delay. Contractor started and completed Activity C out of sequence (mitigation), allowing the completion date to be 11/28/2022, despite the addition of the delay activity.

Layout: Classic Schedule Layout | Filter: All Activities

Activity ID	Activity Name	Activity Type	Calendar	Original Duration	Remaining Duration	Duration % Complete	Start	Finish	Total Float
1000	Start	Start Milestone	Standard 5 Day Workweek	0	0	100%	01-Nov-22 A		
2000	Activity A	Task Dependent	Standard 5 Day Workweek	5	0	100%	01-Nov-22 A	07-Nov-22 A	
3000	Activity B	Task Dependent	Standard 5 Day Workweek	5	0	100%	08-Nov-22 A	14-Nov-22 A	
4000	Activity C	Task Dependent	Standard 5 Day Workweek	5	0	100%	10-Nov-22 A	16-Nov-22 A	
Extra	Extra Work Delay	Task Dependent	Standard 5 Day Workweek	5	0	100%	15-Nov-22 A	21-Nov-22 A	
5000	Activity D	Task Dependent	Standard 5 Day Workweek	5	5	0%	22-Nov-22	28-Nov-22	0
9000	End	Finish Milestone	Standard 5 Day Workweek	0	0	0%		28-Nov-22	0





Measurement and Payment

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Florida Department of Transportation
District 2 Jacksonville Construction Engineer

Measurement and Payment

- Measure (Method of Measurement)
- Pay (Basis of Payment)
- Accepted
- Different Determinations of Pay Areas (Section 9)
  - Plan Quantity
  - Certified quantity
  - Field measure (Final Calculations 9-1.3.1)
  - Lump sum

Units	Measure
LS	CERTIFIED
LS	PLAN
LS	PLAN
HR	CERTIFIED
ED	CERTIFIED
ED	CERTIFIED
FE	CERTIFIED
DA	CERTIFIED
ED	CERTIFIED
LF	FIELD
EA	FIELD
AC	FIELD
AC	FIELD
LS	PLAN
SY	FIELD
EA	FIELD
CY	FIELD
LS	PLAN
SY	PLAN
SY	PLAN
SY	PLAN
SY	PLAN
SY	PLAN
SY	PLAN
SY	PLAN

Measurement and Payment

Pay Item	Description	Units	Measure
0101-1	MOBILIZATION	LS	CERTIFIED
0102-1	MAINTENANCE OF TRAFFIC	LS	PLAN
0102-4-1	PEDESTRIAN OR BICYCLE SPECIAL DETOUR	LS	PLAN
0102-14	TRAFFIC CONTROL OFFICER	HR	CERTIFIED
0102-60	WORK ZONE SIGN	ED	CERTIFIED
0102-74-1	CHANNELIZING DEVICE (I,II,DI,VP,DRUM,LCD)	ED	CERTIFIED
0102-74-8	CHANNELIZING DEVICE-PEDESTRIAN LCD	FE	CERTIFIED
0102-909	RAISED RUMBLE STRIPS (PER DAY MEASUREMENT- INCLUDES ALL SETS AND R	DA	CERTIFIED
0102-99	PORTABLE CHANGEABLE MESSAGE SIGN, TEMP	ED	CERTIFIED
0104-10-3	SEDIMENT BARRIER	LF	FIELD
0104-18	INLET PROTECTION SYSTEM	EA	FIELD

Measurement and Payment

- **Plan Quantity**
  - Examples:
    - Performance Turf, Sod
    - Thermoplastic
    - Reinforcing Steel
    - Detectable Warnings
  - Not field measured
    - Only field changes or plan errors measured

9-3.2.1 Error in Plan Quantity: As used in this Article, the term "substantial error" is defined as the smaller of (1) or (2) below:

1. a difference between the original plan quantity and final quantity of more than 5%,

2. a change in quantity which causes a change in the amount payable of more than $5,000.

Measurement and Payment

- Reinforcing Steel (415) Example

415-7 Method of Measurement.

415-7.1 Reinforcing Steel: The quantity to be paid for will be the plan quantity, in pounds, of reinforcing steel, stainless reinforcing steel, or low carbon chromium reinforcing steel incorporated into the completed work and accepted, subject to any changes approved by the Engineer. The quantity will not include the reinforcing steel (all types) in any item of work for

415-8 Basis of Payment.

Price and payment will be full compensation for all work specified in this Section, including all welding, all clips, spacers, ties, mechanical couplers, etc., and wire or other material used for fastening the reinforcement in place.

If spliced bars are used when full length bars might reasonably be required, the quantity paid for will be only that which would be obtained if full length bars were used, with no allowance for lap.

Payment will be made under:

Item No. 415- 1-	Reinforcing Steel - per pound.
Item No. 415- 2-	Stainless Reinforcing Steel - per pound.
Item No. 415- 3-	Low Carbon Chromium Reinforcing Steel - per pound.
Item No. 415- 10-	Fiber Reinforced Polymer Reinforcing Bar - per linear foot.

931-1.1.5 Acceptance of Steel Bars: Acceptance of reinforcing steel shall be based on the manufacturer being on the National Transportation Product Evaluation Program (NTPEP) list of compliant producers, samples taken by the Department, and manufacturer's certified mill analysis. The test results shall meet the specification limits of the ASTM or

Measurement and Payment

- **Certified quantity**
  - Examples:
    - Most 102 Pay Items
    - 710 Temporary Striping (Paint)
    - Bituminous adjustments
- **“Trust, but Verify”**

Measurement and Payment

- **Maintenance of Traffic Example**

102-11 Method of Measurement.

102-11.2 Traffic Control Officers: The quantity to be paid for traffic control officers will be at the Contract unit price per hour (4 hour minimum) for the actual number of officers certified to be on the project site, including any law enforcement vehicles and all other direct and indirect costs. Payment will be made only for those traffic control officers specified in the Plans and authorized by the Engineer.

102-13 Basis of Payment.

102-13.2 Traffic Control Officers: Price and payment will be full compensation for the services of the traffic control officers.

102-12 Submittals.

102-12.1 Submittal Instructions: Prepare a certification of quantities, using the Department's current approved form, for certified MOT payment items for each project in the Contract. Submit the certification of quantities to the Engineer. The Department will not pay for any disputed items until the Engineer approves the certification of quantities.

102-12.2 Contractor's Certification of Quantities: Request payment by submitting a certification of quantities no later than Twelve O'clock noon Monday after the estimate cut-off date or as directed by the Engineer, based on the amount of work done or completed. Ensure the certification consists of the following:

Measurement and Payment

- Maintenance of Traffic Example

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION

CONTRACTORS CERTIFICATION OF QUANTITIES
MAINTENANCE OF TRAFFIC SHEET

Form 700-050-62
CONSTRUCTION
1.0.0.3 (10/2022)

Contract No. T2724
nancial Project ID 42293855201 State Road No. SR 23 (FIRST COAST EXPRESSWAY) Certification No. 053
Contractor SUPERIOR CONSTRUCTION COMPANY SOUTHEAST, LLC Period 6/12/2023 - 7/16/2023

Pay Item No. >	0102 3		0102 14			0102 60		0102 60		0102 71 13		Remarks
Description >	COMMERCIAL MATERIAL ...		TRAFFIC CONTROL OFFI...			WORK ZONE SIGN		WORK ZONE SIGN		TEMPORARY BARRIER, F...		
ay of the Month v	Total Today CY	Accrued Total CY	Total Today HR	Min HR	Accrued Total HR	Total Today ED	Accrued Total ED	Total Today ED	Accrued Total ED	Total Today LF	Accrued Total LF	
6/12/2023		0.000		0.000	0.000	148.000	148.000		0.000		0.000	

102-7 Traffic Control Officer.

Provide uniformed law enforcement officers, including marked law enforcement vehicles, to assist in controlling and directing traffic in the work zone when the following types of work is necessary on projects:

1. When directing traffic/overriding the signal in a signalized intersection.
2. When nighttime mobile operations are used on freeway facilities (interstates, toll roads, and expressways) for work within the travel lane.
3. When traffic pacing is called for in the TTCP or approved by the Engineer.
4. When pulling conductor/cable above an open traffic lane on limited access facilities, when called for in the TTCP or approved by the Engineer.
5. When a Temporary Road Closure is used.
6. When performing lane closures during nighttime operations on roadways with posted speed limits 55 mph or greater.

At no additional cost to the Department, traffic control officers may be used for operations other than those listed above.

Measurement and Payment

- **Field measure (Final Calculations 9-1.3.1)**
  - Generally, fall into one of the following categories:
    - Area Measurement Pay Items
      - Examples: Concrete Removal
    - Linear Measurement Pay Items
      - Examples: Conduit and Silt Fence
    - Volumetric Measurements Pay Items
      - Examples: Subsoil excavation and channel excavation
    - Per Each Measurement Pay Items
      - Examples: Fence Gates, Inlets, Pull Boxes

Measurement and Payment

- Concrete Removal Example

110-11 Method of Measurement

110-11.4 Removal of Existing Concrete:

The quantity to be paid for will be the number of square yards of existing concrete elements, acceptably removed and disposed of, as specified. The quantity will be determined by actual measurement along the surface of the element before its removal. Measurements for

110-12 Basis of Payment

110-12.4 Removal of Existing Concrete: Price and payment will be full compensation for performing and completing all the work of removal and satisfactory disposal.

When no separate item for this work is included, the Contractor shall include the costs of this work in the Contract price for the item of clearing and grubbing or for the pipe or other structure for which the concrete removal is required.

Measurement and Payment

- **Site Source Records**
  - https://www.fdot.gov/construction/finalestimates/fedocs.shtm

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION
FINAL MEASUREMENTS
SITE SOURCE RECORD

700-050-53
CONSTRUCTION
06/17

CONTRACT #:
FINANCIAL PROJECT ID:
PAY ITEM #:
PAY ITEM DESCRIPTION:

NAME OF PERSON(S) TAKING MEASUREMENT:
DATE:

STATIONS BKE AND AHD EQUATIONS	BKE / AHD	OFFSET	REMARKS

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION
FINAL MEASUREMENTS "MISCELLANEOUS"

700-050-61
CONSTRUCTION
5/17

Page No. ___ of ___

FPID No. :
Contract No.:
Name :
Date :
Pay Item No.:

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION
DAILY REPORT OF TRUCK-MEASURED MATERIAL
SITE SOURCE RECORD

700-050-54
CONSTRUCTION
02/17

Contractor Code: Designate Trucking Contractor/Sub Name

A
B
C
D

FIN. PROJ ID.:
PAY ITEM NO.
DATE:

Contr. Code A-D	TRUCK NO.	TRUCK CAPACITY	NOTE: Click the next consecutive number for every truck as each load is received and note the time of dump under load number (example 3:30 pm). If loads are not used for a truck, keep the remaining load counts (boxes) empty. LOADS 1 2 3 4 5 6 7 8 9 10	TOTAL VOLUME
				0.00

Measurement and Payment

- **Lump sum**
  - Examples:
    - Mobilization
    - Maintenance of Traffic
    - Clearing and Grubbing

Measurement and Payment

- **Mobilization Example**
  - Contract Time < 120 Days
    - 50% of the bid price per month for the first two months
  - Contract Time ≥ 120 Days
    - 25% of the bid price per month for the first four months
  - Notes:
    - No more than 50% of the bid price to be paid prior to commencing construction
    - Mobilization is limited to 10% of the original Contract amount

101-2.2 Partial Payments: When the proposal includes a separate pay item for Mobilization and the Notice to Proceed has been issued, partial payments will be made in accordance with the following:

For contracts of 120 contract days duration or less, partial payment will be made at 50% of the bid price per month for the first two months. For contracts in excess of 120 contract days duration, partial payment will be made at 25% of the bid price per month for the first four months. In no event shall more than 50% of the bid price be paid prior to commencing construction on the project site.

Total partial payments for Mobilization will be limited to 10% of the original Contract amount. Any remaining amount will be paid at Final Acceptance.

Materials Acceptance and Certification (MAC)

Joaquin Olivella, P.E.
Florida Department of Transportation
District 2 Gainesville Construction Engineer

Materials Certification

- **Quality Assurance Procedures for Construction (QACP) is the Department's comprehensive plan for meeting Code of Federal Regulations (23 CFR Part 637)**

- **Quality Control Program is part of the FDOT QACP**

- **What is MAC?**
  - Materials sampling and testing
  - Used by:
    - Contractor's Quality Control personnel
    - Verification Laboratories
    - CEI verification personnel (Project Administrator, inspectors)
    - District Materials Office
    - State Materials Office
  - Training - https://www.fdot.gov/materials/mac/default.shtm

Materials Certification – MAC

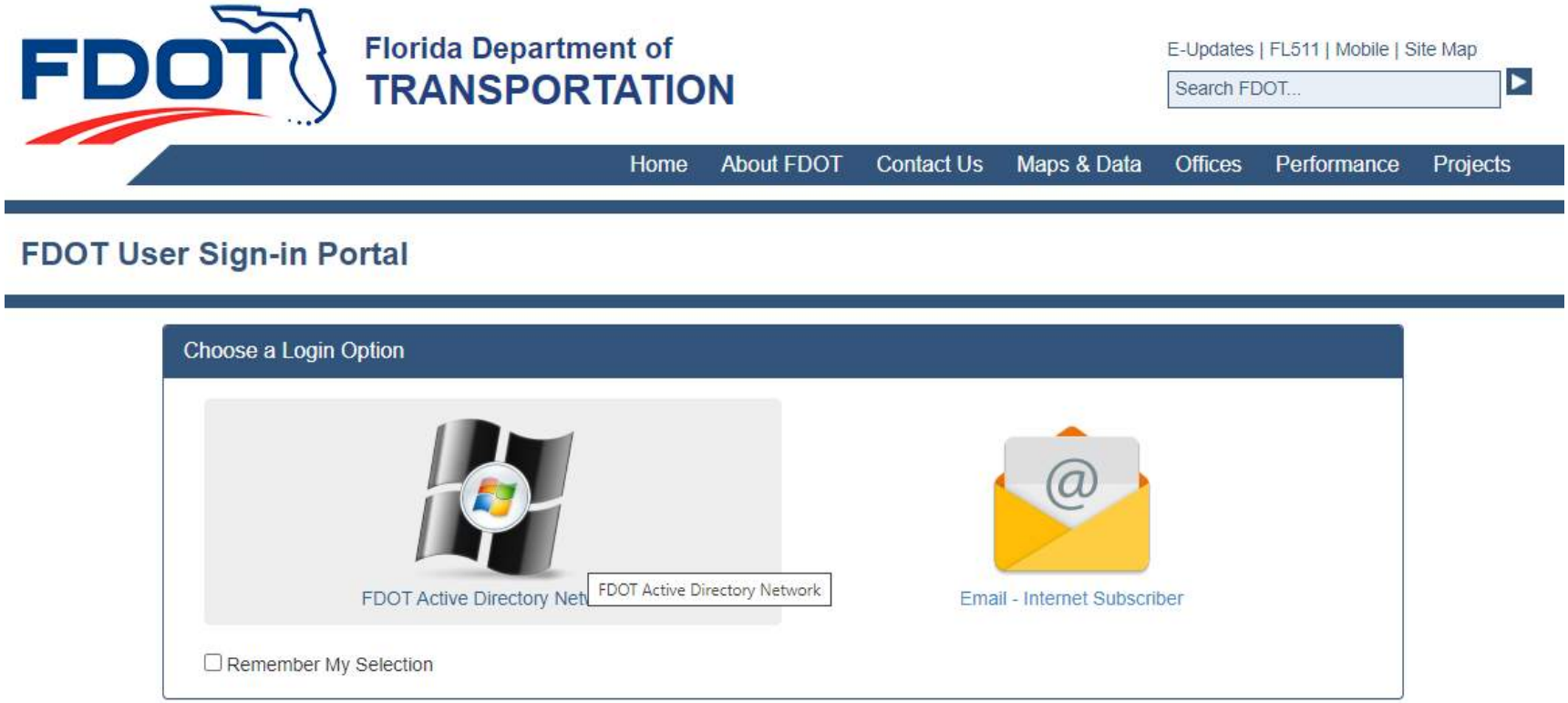
- **Project Administrator Role**
  - In responsible charge for the materials acceptance on a Contract
  - Must finalize project samples and create comparison packages
  - Review Contractor's Quality Control Plan (CQCP)

- **Contractor Role**
  - Submit Quality Control Plan per section 105
  - Enter Quality Control test results

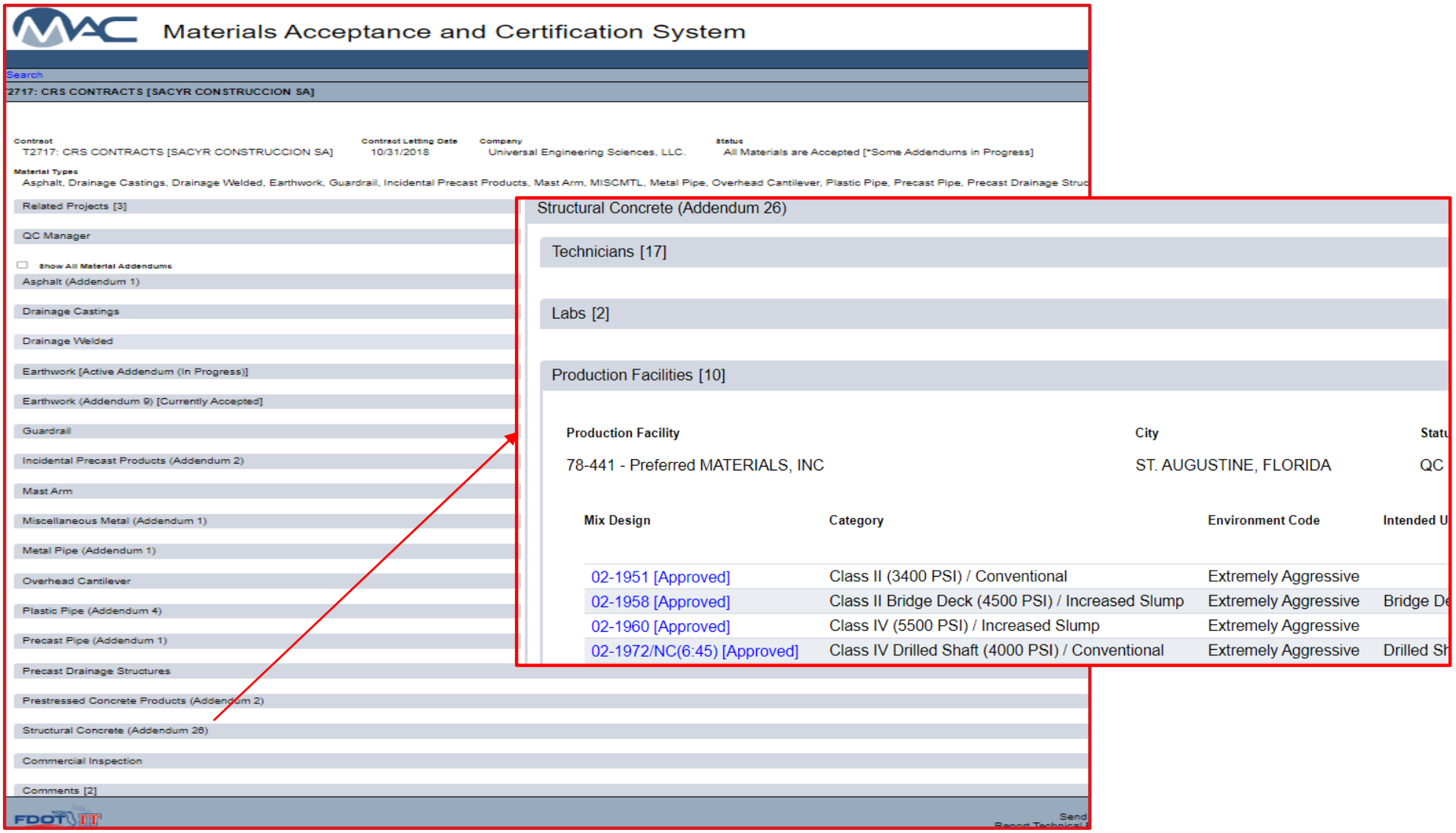
Materials Certification – Sample Life Cycle

- **This is the example for Concrete samples**
- **Quality Control Plan updated in MAC**
  - Production facilities
  - Mix Design (i.e. Concrete)
- **Sample taken in the field and delivered to laboratory for testing**
- **QC and VT create/log samples in MAC**
- **QC runs required test and submits to FDOT PA for verification**
- **VT enters verification results**
- **PA creates comparison package**

Materials Certification – Sample Life Cycle

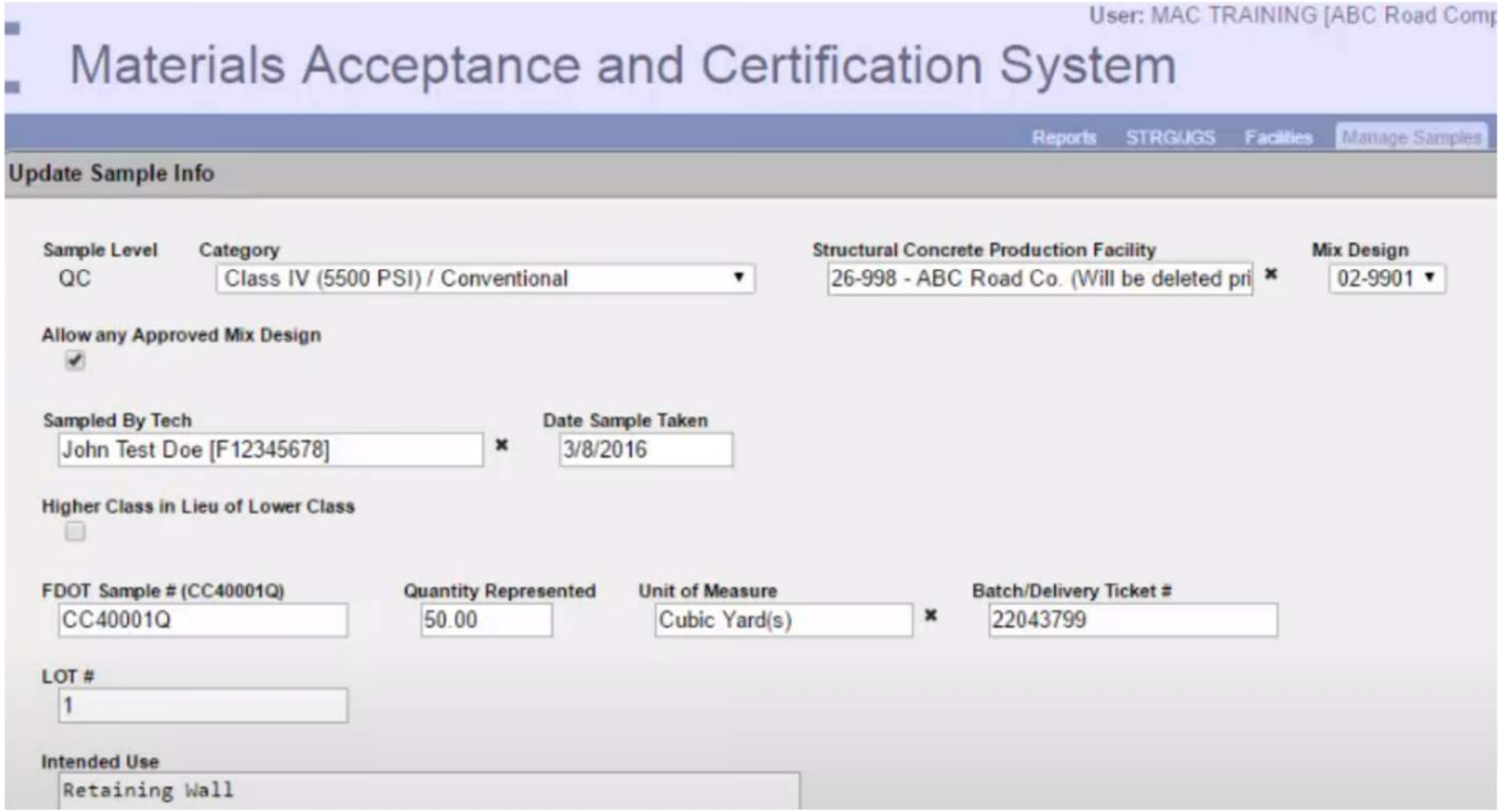


Materials Certification – MAC

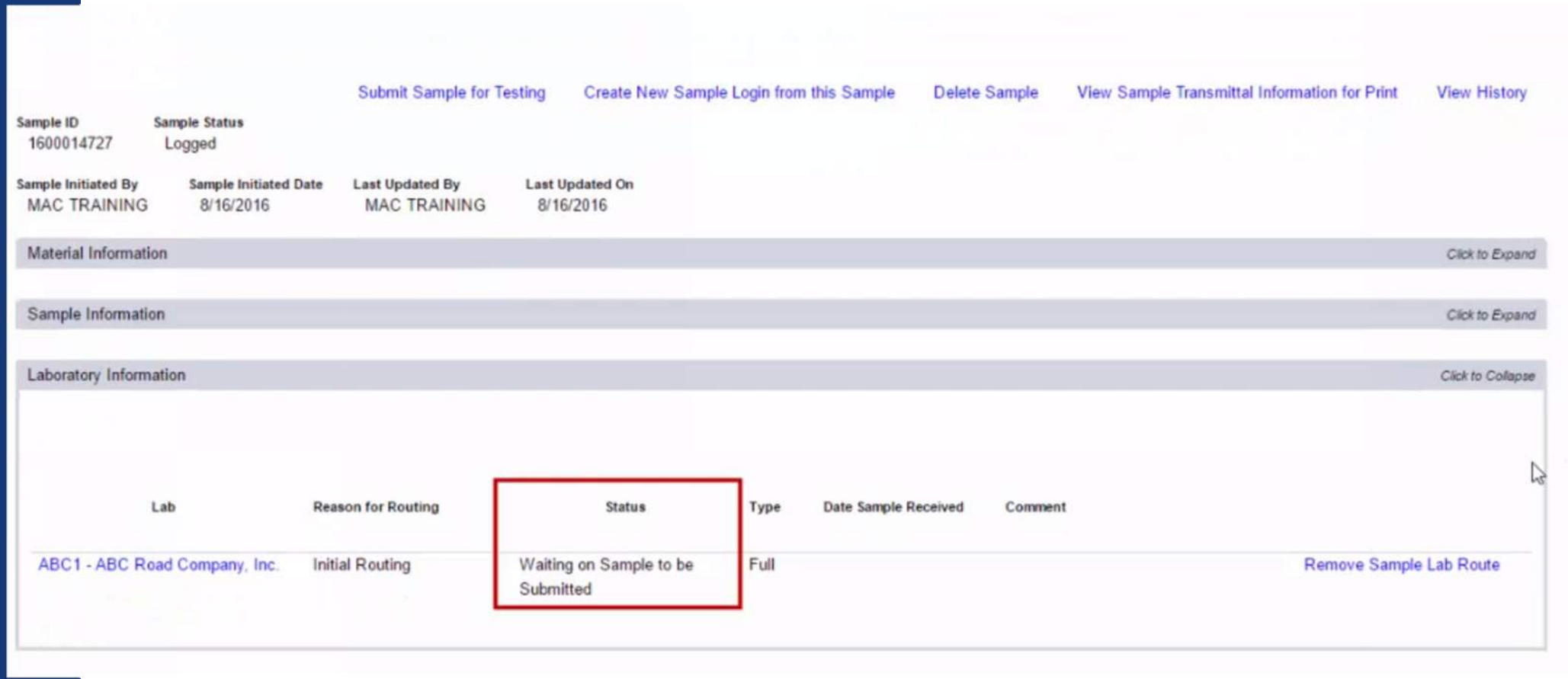


Materials Certification – Sample Life Cycle

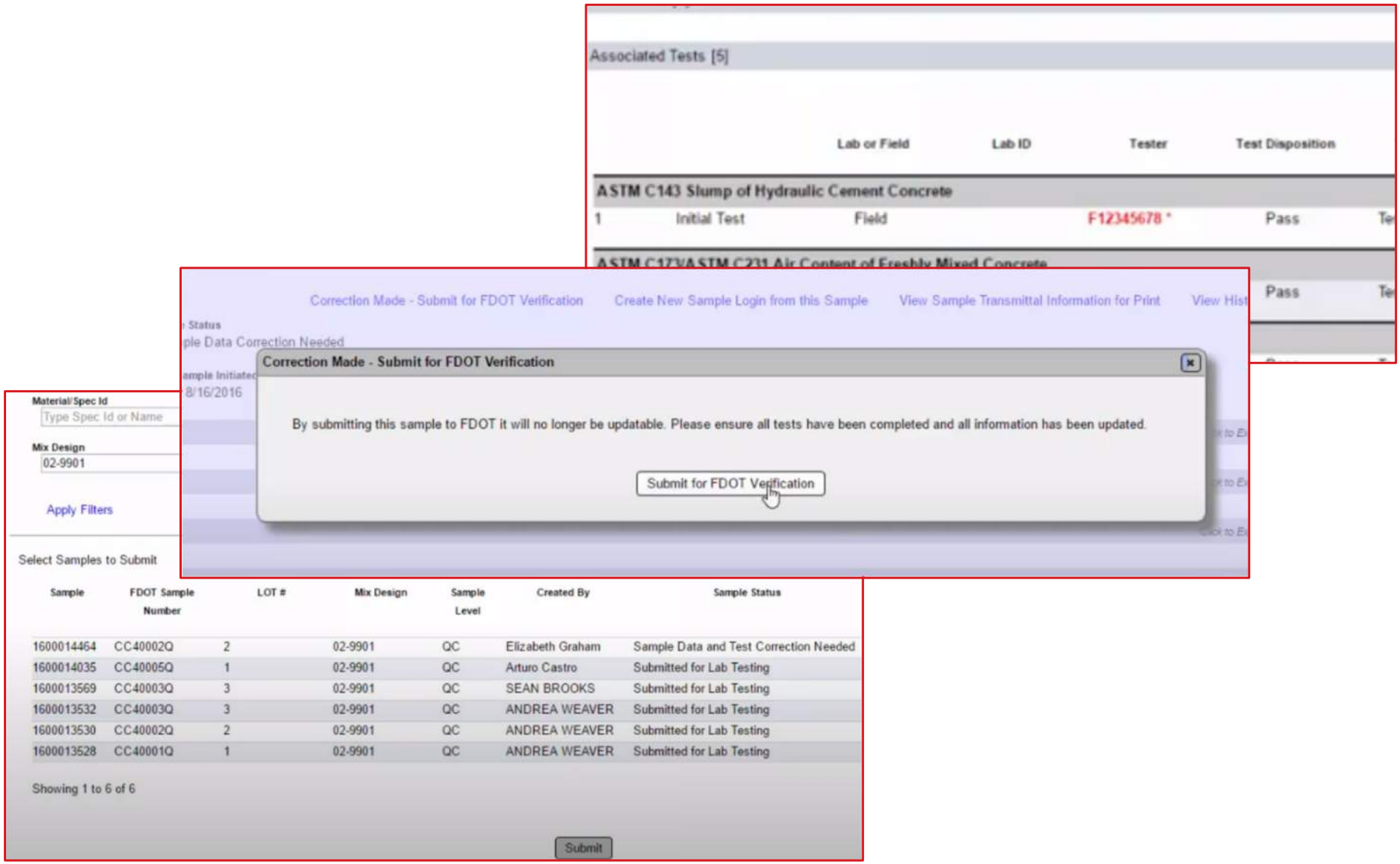
Materials Certification – Sample Life Cycle



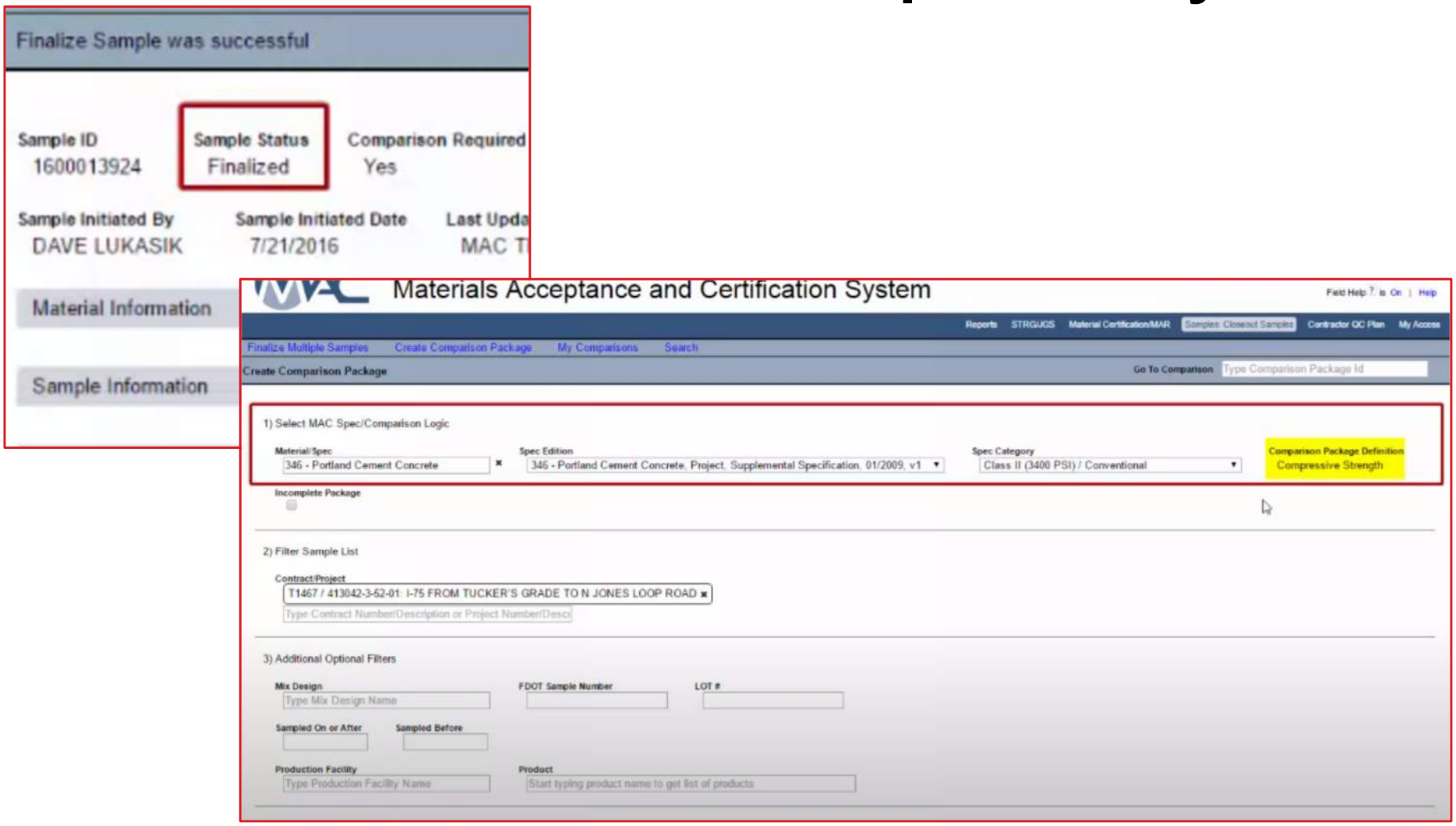
Materials Certification – Sample Life Cycle



Materials Certification – Sample Life Cycle



Materials Certification – Sample Life Cycle



Materials Certification – Sample Life Cycle

1600013927	6/8/2016	CC20004Q	4	02-9901	QC	26-998 - ABC Road Co. (Will be deleted prior to MAC GO LIVE).
1600013928	6/8/2016	CC20005Q	5	02-9901	QC	26-998 - ABC Road Co. (Will be deleted prior to MAC GO LIVE).
1600013929	6/9/2016	CC20006Q	6	02-9901	QC	26-998 - ABC Road Co. (Will be deleted prior to MAC GO LIVE).
1600013930	6/9/2016	CC20007Q	7	02-9901	QC	26-998 - ABC Road Co. (Will be deleted prior to MAC GO LIVE).
1600013931	6/10/2016	CC20008Q	8	02-9901	QC	26-998 - ABC Road Co. (Will be deleted prior to MAC GO LIVE).
1600013932	6/10/2016	CC20009Q	9	02-9901	QC	26-998 - ABC Road Co. (Will be deleted prior to MAC GO LIVE).
1600013933	6/13/2016	CC200010Q	10	02-9901	QC	26-998 - ABC Road Co. (Will be deleted prior to MAC GO LIVE).
1600013936	6/7/2016	CC20001V	1	02-9901	VT	26-998 - ABC Road Co. (Will be deleted prior to MAC GO LIVE).
1600013937	6/8/2016	CC20005V	5	02-9901	VT	26-998 - ABC Road Co. (Will be deleted prior to MAC GO LIVE).

Showing 1 to 12 of 12

5) Configure Selected Samples

	Sample Level	FDOT Sample Number	LOT #	Mix Design	Original	Verification
1600013928	QC	CC20005Q	5	02-9901	☑	☐
1600013937	VT	CC20005V	5	02-9901	☐	☑

Materials Acceptance and Certification System

nalize Multiple Samples | Create Comparison Package | My Comparisons | Search

mparison Package 67 [1600013924 QC:VT]

Comparison Package ID	Comparison Definition	Comparison Type	Comparison Status
67	Compressive Strength	Includes Original Sample	Compares

Spec	Last Updated By	Last Updated On
346 - Portland Cement Concrete, Supplemental Specification, 01/2009, v1.4	MAC TRAINING	7/26/2016

Original Sample	Sample Level	FDOT Sample Number	LOT #	Project(s)
1600013924	QC	CC20001Q	1	413042-3-52-01

Verification Sample	Sample Level	FDOT Sample Number	LOT #	Project(s)
1600013936	VT	CC20001V	1	413042-3-52-01

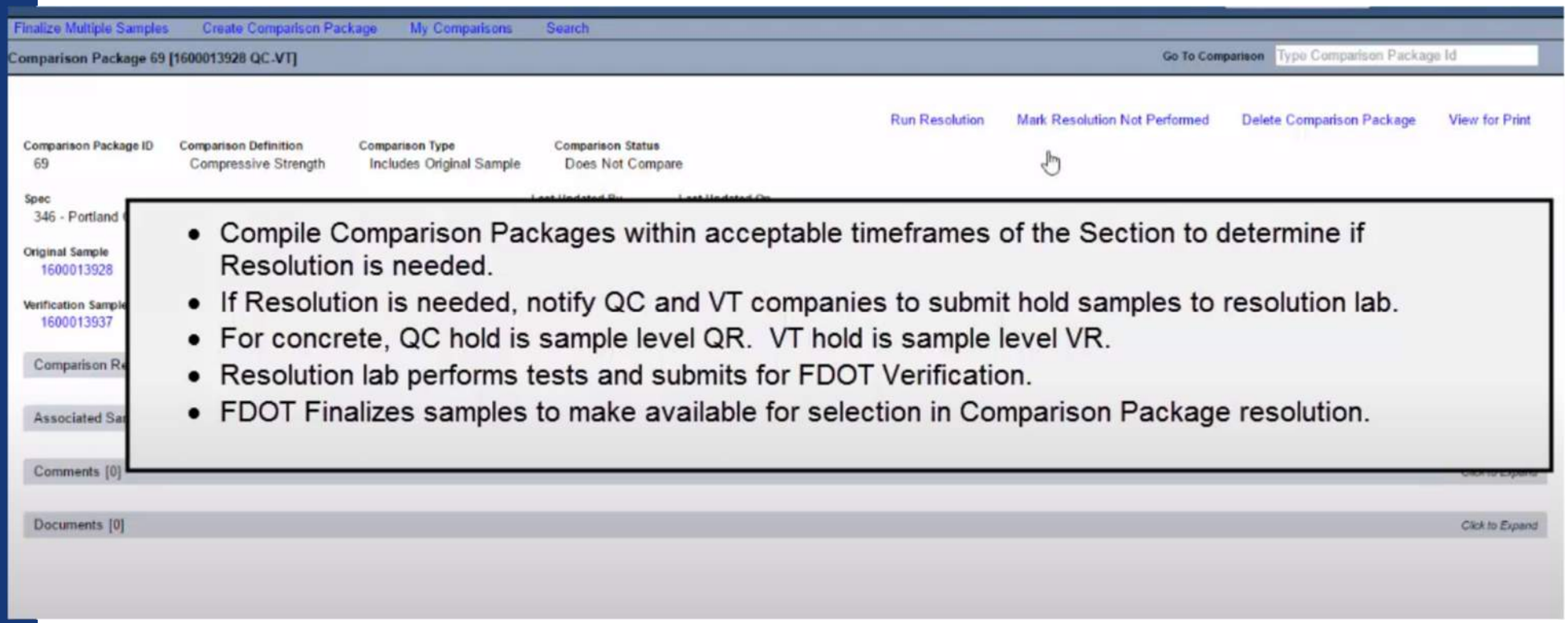
Comparison Results [1]

Associated Samples [1]

Comments [0]

Documents [0]

Materials Certification – Sample Life Cycle



Materials Certification – MAC

Materials Acceptance and Certification System

User:

Dashboard Reports STRG/JGS Material Certifi

Generate Asphalt Random Number | My Samples | Search

Start typing product name to get list of products | Type Production Facility Name

APL Number: Start typing product name to get list of pro

APL Product: Start typing product name to get list of APL

Lab: Start typing Lab name or Lab ID to get a lis

Lab Routing Status:

Road Number: Start typing roadway id or description to get list of roadways

Station From | Station To

Comparison Package Status:

Currently selected criteria will yield 1128197 results

Search | Clear Search

	Sample ID	MAC Spec	Sample Level	Sample Status	Date Sample Taken	Contract/Project(s)	FDOT Sample Number	Mix Design	LOT #	Sublot #	LOTs Represented
1	1600008891	DEV346FRC - Fiber Reinforced Concrete, Mix Design [Standard Spec], v1.0	QC	Finalized	3/18/2016			02-1655-04			
2	1600010371	346 - Portland Cement Concrete, Mix Design [Standard Spec], v1.9	QC	Finalized	4/29/2016			04-1318			
3	1600010373	346 - Portland Cement Concrete, Mix Design [Standard Spec], v1.9	QC	Finalized	3/14/2011			02-1397-01			
4	1600010374	346 - Portland Cement Concrete, Mix Design [Standard Spec], v1.9	QC	Finalized	3/8/2011			02-1411-01			
5	1600010375	346 - Portland Cement Concrete, Mix Design [Standard Spec], v1.9	QC	Finalized	3/8/2011			02-1412-01			
6	1600010376	346 - Portland Cement Concrete, Mix Design [Standard Spec], v1.9	QC	Finalized	3/8/2011			02-1413-01			
7	1600010377	346 - Portland Cement Concrete, Mix Design [Standard Spec], v1.9	QC	Finalized	3/8/2011			02-1415-01			
8	1600010378	346 - Portland Cement Concrete, Mix Design [Standard Spec], v1.9	QC	Finalized	12/6/2011			02-1468-01SF			
9	1600010379	346 - Portland Cement Concrete, Mix Design [Standard Spec], v1.9	QC	Finalized	5/4/2011			02-1468SF			
10	1600010380	346 - Portland Cement Concrete, Mix Design [Standard Spec], v1.9	QC	Finalized	3/21/2011			02-1488-01			
11	1600010381	346 - Portland Cement Concrete, Mix Design [Standard Spec], v1.9	QC	Finalized	11/17/2010			02-1512			
12	1600010384	346 - Portland Cement Concrete, Mix Design [Standard Spec], v1.9	QC	Finalized	2/10/2011			02-1528			
13	1600010385	346 - Portland Cement Concrete, Mix Design [Standard Spec], v1.9	QC	Finalized	5/11/2011			02-1529			
14	1600010387	346 - Portland Cement Concrete, Mix Design [Standard Spec], v1.9	QC	Finalized	6/6/2011			02-1531			

PrC

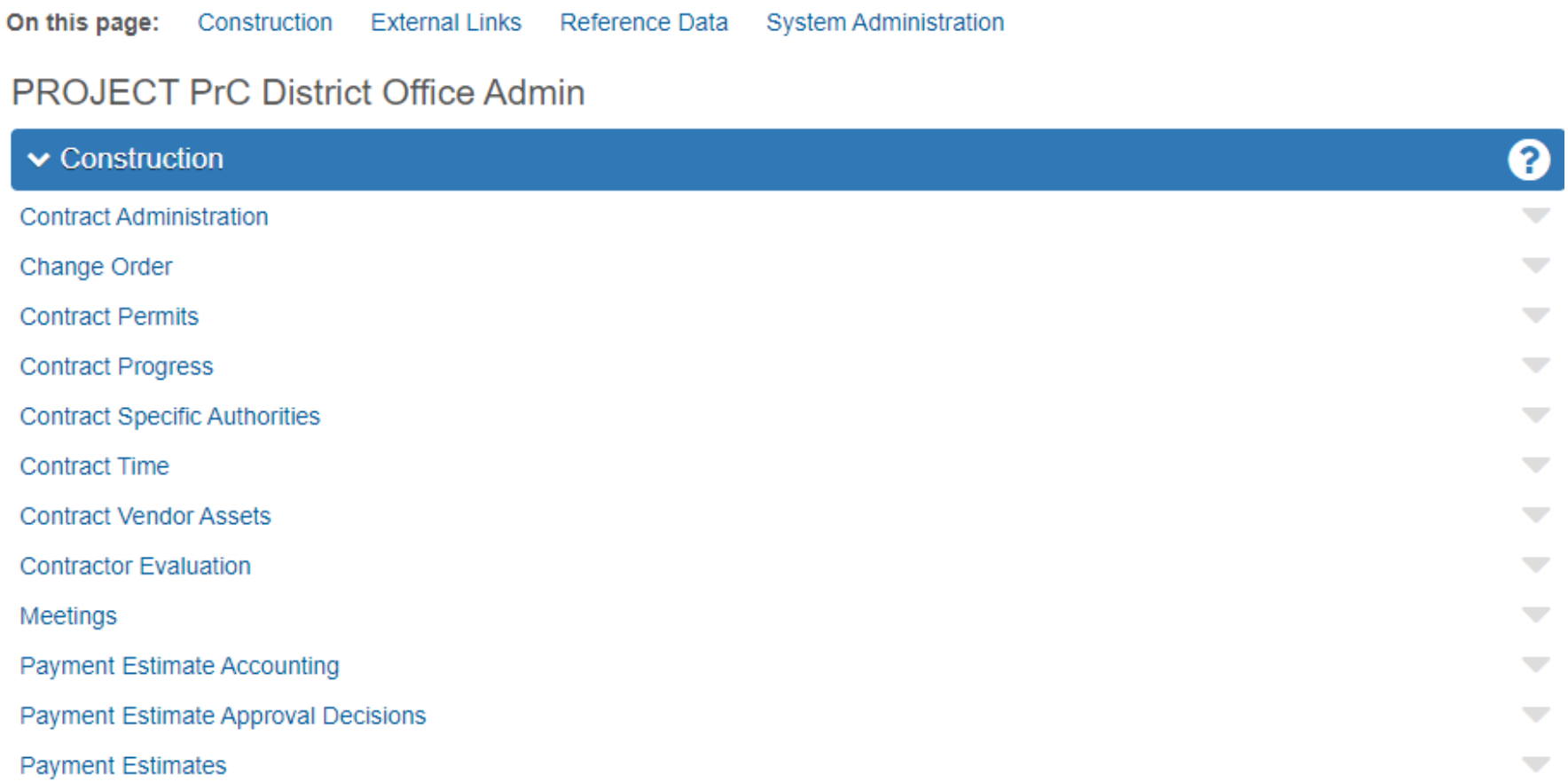
Taylor Byrd, P.E.
Florida Department of Transportation
District 2 Jacksonville Construction Engineer

PrC

- AASHTOWare Project Construction (PrC) is a web-based construction management software application. PrC allows FDOT to manage all aspects of a construction project through Daily Work Reports, diaries, contract change orders, stockpiles, and contractor payments.

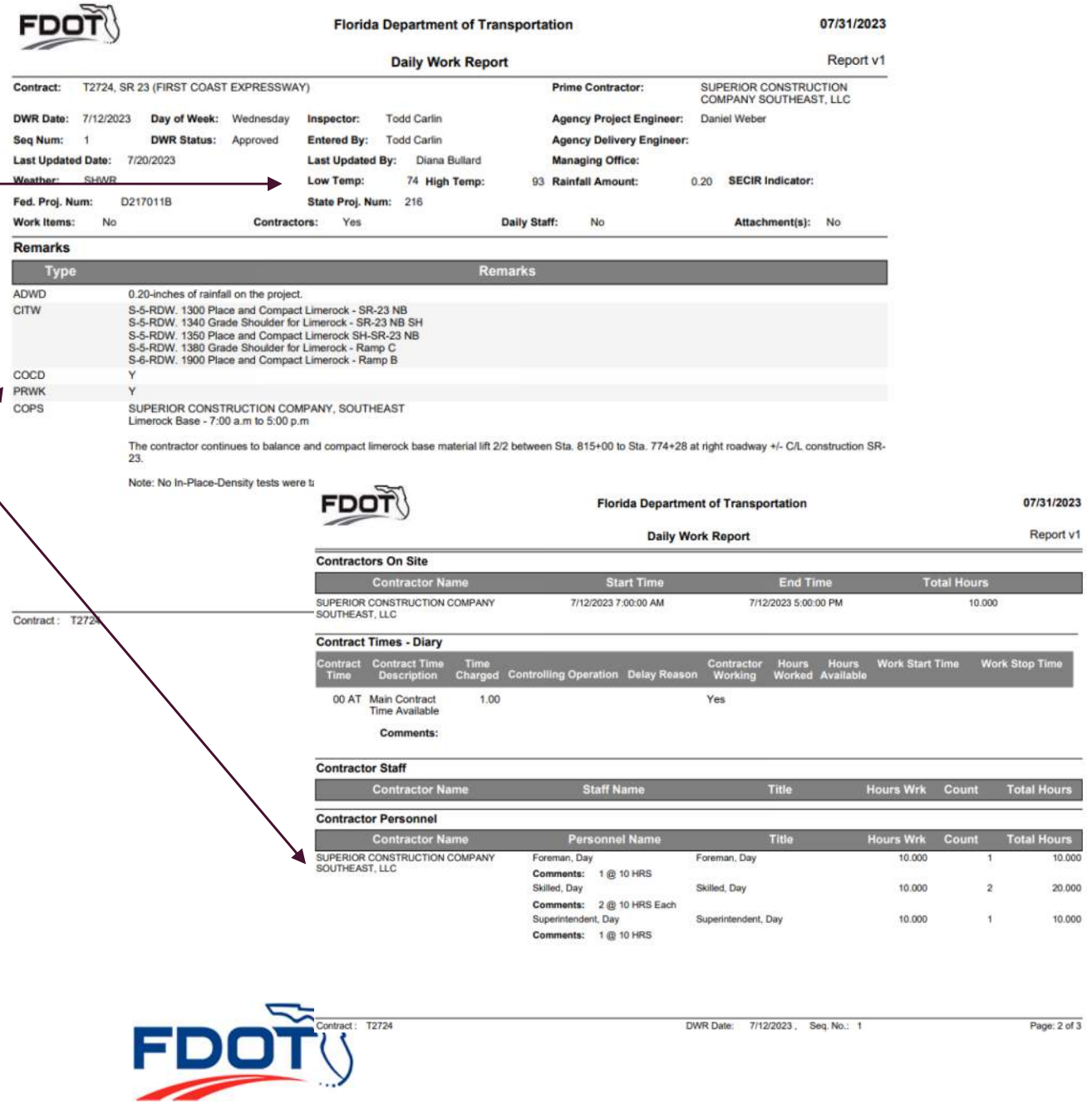
PrC

- **How Construction administers the Contract**



PrC

- **Daily Work Reports**
  - Weather
  - Record of activities
  - Personnel
  - Equipment



FDOT Florida Department of Transportation 07/31/2023

Daily Work Report Report v1

Contract: T2724, SR 23 (FIRST COAST EXPRESSWAY) Prime Contractor: SUPERIOR CONSTRUCTION COMPANY SOUTHEAST, LLC

DWR Date: 7/12/2023 Day of Week: Wednesday Inspector: Todd Carlin Agency Project Engineer: Daniel Weber

Seq Num: 1 DWR Status: Approved Entered By: Todd Carlin Agency Delivery Engineer:

Last Updated Date: 7/20/2023 Last Updated By: Diana Bullard Managing Office:

Weather: SHWR Low Temp: 74 High Temp: 93 Rainfall Amount: 0.20 SECIR Indicator:

Fed. Proj. Num: D217011B State Proj. Num: 216

Work Items: No Contractors: Yes Daily Staff: No Attachment(s): No

Remarks

Type	Remarks
ADWD	0.20-inches of rainfall on the project.
CITW	S-5-RDW. 1300 Place and Compact Limerock - SR-23 NB S-5-RDW. 1340 Grade Shoulder for Limerock - SR-23 NB SH S-5-RDW. 1350 Place and Compact Limerock SH-SR-23 NB S-5-RDW. 1380 Grade Shoulder for Limerock - Ramp C S-6-RDW. 1900 Place and Compact Limerock - Ramp B
COCD	Y
PRWK	Y
COPS	SUPERIOR CONSTRUCTION COMPANY, SOUTHEAST Limerock Base - 7:00 a.m to 5:00 p.m The contractor continues to balance and compact limerock base material lift 2/2 between Sta. 815+00 to Sta. 774+28 at right roadway +/- C/L construction SR-23. Note: No In-Place-Density tests were t

Contract : T272

FDOT Florida Department of Transportation 07/31/2023

Daily Work Report Report v1

Contractors On Site

Contractor Name	Start Time	End Time	Total Hours
SUPERIOR CONSTRUCTION COMPANY SOUTHEAST, LLC	7/12/2023 7:00:00 AM	7/12/2023 5:00:00 PM	10.000

Contract Times - Diary

Contract Time	Contract Time Description	Time Charged	Controlling Operation	Delay Reason	Contractor Working	Hours Worked	Hours Available	Work Start Time	Work Stop Time
00 AT	Main Contract Time Available	1.00			Yes				

Comments:

Contractor Staff

Contractor Name	Staff Name	Title	Hours Wrk	Count	Total Hours

Contractor Personnel

Contractor Name	Personnel Name	Title	Hours Wrk	Count	Total Hours
SUPERIOR CONSTRUCTION COMPANY SOUTHEAST, LLC	Foreman, Day	Foreman, Day	10.000	1	10.000
	Comments: 1 @ 10 HRS				
	Skilled, Day	Skilled, Day	10.000	2	20.000
	Comments: 2 @ 10 HRS Each				
	Superintendent, Day	Superintendent, Day	10.000	1	10.000
	Comments: 1 @ 10 HRS				

Contract : T2724 DWR Date: 7/12/2023 , Seq. No.: 1 Page: 2 of 3

PrC

- **Diaries**
  - Charging time
  - Summary of the daily weather

FDOT

Florida Department of Transportation 07/31/2023

Daily Diary Report Report 042 v7

Contract: T2724, SR 23 (FIRST COAST EXPRESSWAY) **Prime Contractor:** SUPERIOR CONSTRUCTION COMPANY SOUTHEAST, LLC

Diary Date: 07/22/2023 **Day of Week:** Saturday **Author:** Diana Bullard **Project Engineer:** Daniel Weber

Diary Lock Ind: No **Estimate Number:** **Entered By:** Diana Bullard **Delivery Engineer:**

Revision Date: 07/26/2023 **Revised By:** Diana Bullard **Time Type:** Available Time

Weather: **Low Temp:** **High Temp:** **Original Contract Time** 2000.00 Days

Fed. Proj. Num.: D217011B **Contractor Working:** No **Current Contract Time** 2172.00 Days

Location: 71493000 **Daily Diary Time Charged** 1575.00 Days

Comments:

Remarks

Type	Remarks

Contract Times

Contract Time	Contract Time Description	Time Charged	Controlling Operation	Delay Reason	Contractor Working	Hours Worked	Hours Available	Work Start Time	Work Stop Time
00 AT	Main Contract Time Available	1.00			No				

Comments:

Attachments

File Name	Description	File Size (kb)

Contract: T2724 DiaryDate: 07/22/2023 Page: 1 of 2

FDOT

Florida Department of Transportation 07/31/2023

Daily Diary Report Report 042 v7

DWRs Dated 07/22/2023

Inspector	DWR Seq Num	Weather	Low Temperature	High Temperature	Rainfall
Lance Daniel	1	CLR: Clear	76	91	0.00

FDOT

PrC

- **Change Orders**
  - Time Extensions
    - Weather/Holiday
    - Contractor Time Extension Requests
    - Work Order Time Extensions
  - Unilateral Payments
  - Supplemental Agreements
  - Work Orders
    - Zero Dollar
    - Delay Start
    - DCE Memos

FDOT **Florida Department of Transportation** **07/31/2023**

Change Order Report v1

Contract: T2724, SR 23 (FIRST COAST EXPRESSWAY)

Prime Contractor: F263552913, SUPERIOR CONSTRUCTION COMPANY SOUTHEAST, LLC

CO Number: 0088 **Revision No.:** **CO Type:** Weather Days Time Granted

CO Status: Approved **Change Order Date:** 7/7/2023 **CO Approval Date:** 7/10/2023

Entered By: Diana Bullard **Last Updated By:** Taylor Byrd **Last Updated Date:** 7/10/2023

Fed. Proj. No.: D217011B **Awarded Contract Amount:** $179,241,232.81 **Net CO Amount:**

District: 02 District 2 **Administrative Office:** RO-Resid-Yard-02216 **Area Engineer:** Jeff Williams

Route: **County:** 71 CLAY

Location: 71493000

Project(s): 42293855201, SR23 FROM EAST OF CR209 TO NORTH OF SR16 - NEW ROAD CONSTRUCTION; 42293855202, SR23 FROM EAST OF CR209 TO NORTH OF SR16 - NEW ROAD CONSTRUCTION; 42293855601, SR23 FROM EAST OF CR209 TO NORTH OF SR16 - NEW ROAD CONSTRUC TION; 42293855605, SR23 FROM EAST OF CR209 TO NORTH OF SR16-NEW ROAD CONSTRUCT CCUA UTILITY AGREEMENT

Description: Weather Days for June 2023

Explanation: Weather Days for June 2023 = 6/16, 6/20, 6/21, 6/22 and 6/23

Time Adjustments

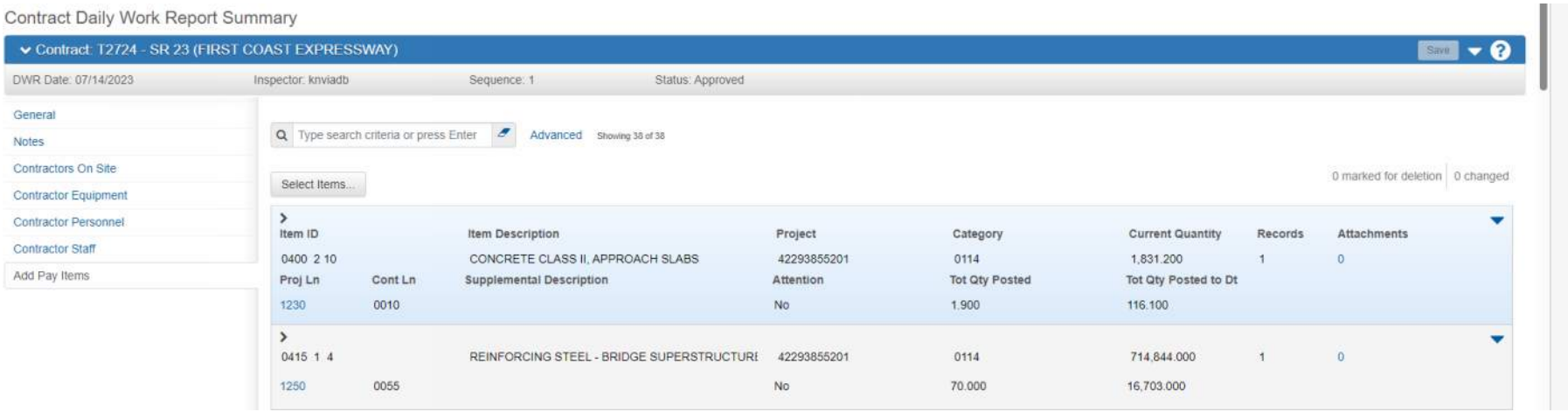
Time ID	Time Description	Time Type	Original	Current	Adjustment	New
	00 AT Main Contract Time	Available Time	2.000	2.167	5	2.172

Contract: T2724 CO Number: 0088 Revision No.: Page: 1 of 2

FDOT

PrC

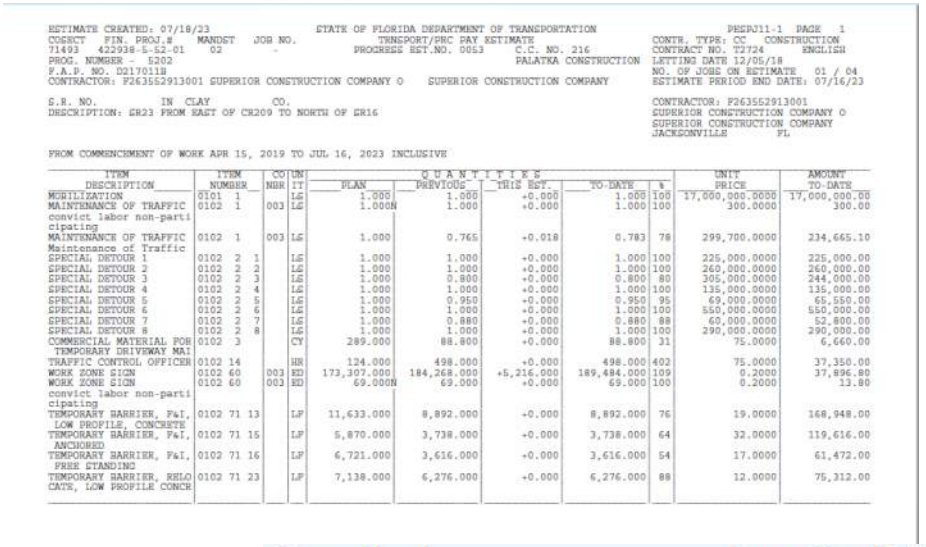
- **Estimates (Progress and Final)**
  - Daily Work Report (DWR) generated with Add Pay Items



  - DWR approved and estimate generated.
    - Contract Adjustments and Line-Item Adjustments are completed

PrC

- **Estimates (Progress and Final)**
  - TSO Report Generated



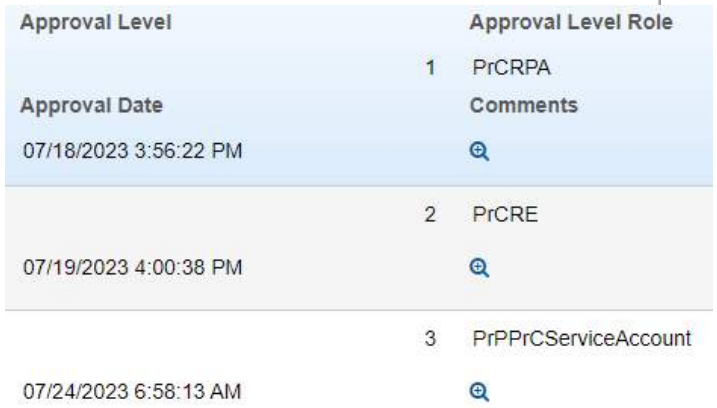
ESTIMATE CREATED: 07/18/23 STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION PREPJ11-1 PAGE 1
COSECT FIN. PROJ.# MANDST JOB NO. TRNSPORT/PRC PAY ESTIMATE CONTR. TYPE: CC CONSTRUCTION
71493 422938-5-52-01 02 - PROGRESS EST.NO. 0053 C.C. NO. 216 CONTRACT NO. T2724 ENGLISH
PROG. NUMBER - 5202 PALATKA CONSTRUCTION LETTING DATE 12/05/18
F.A.P. NO. D2170118 NO. OF JOBS ON ESTIMATE 01 / 04
CONTRACTOR: F263552913001 SUPERIOR CONSTRUCTION COMPANY O SUPERIOR CONSTRUCTION COMPANY ESTIMATE PERIOD END DATE: 07/16/23

S.R. NO. IN CLAY CO. CONTRACTOR: F263552913001
DESCRIPTION: SR23 FROM EAST OF CR209 TO NORTH OF SR16 SUPERIOR CONSTRUCTION COMPANY O
SUPERIOR CONSTRUCTION COMPANY
JACKSONVILLE FL

FROM COMMENCEMENT OF WORK APR 15, 2019 TO JUL 16, 2023 INCLUSIVE

ITEM DESCRIPTION	ITEM NUMBER	CO NBR	UNIT	QUANTITIES PLAN	PREVIOUS	THIS EST.	TO-DATE	%	UNIT PRICE	AMOUNT TO-DATE
MOBILIZATION	0101 1		LS	1.000	1.000	+0.000	1.000	100	17,000,000.0000	17,000,000.00
MAINTENANCE OF TRAFFIC convict labor non-participating	0102 1	003	LS	1.000N	1.000	+0.000	1.000	100	300.0000	300.00
MAINTENANCE OF TRAFFIC Maintenance of Traffic	0102 1	003	LS	1.000	0.765	+0.018	0.783	78	299,700.0000	234,665.10
SPECIAL DETOUR 1	0102 2 1		LS	1.000	1.000	+0.000	1.000	100	225,000.0000	225,000.00
SPECIAL DETOUR 2	0102 2 2		LS	1.000	1.000	+0.000	1.000	100	260,000.0000	260,000.00
SPECIAL DETOUR 3	0102 2 3		LS	1.000	0.800	+0.000	0.800	80	305,000.0000	244,000.00
SPECIAL DETOUR 4	0102 2 4		LS	1.000	1.000	+0.000	1.000	100	135,000.0000	135,000.00
SPECIAL DETOUR 5	0102 2 5		LS	1.000	0.950	+0.000	0.950	95	69,000.0000	65,550.00
SPECIAL DETOUR 6	0102 2 6		LS	1.000	1.000	+0.000	1.000	100	550,000.0000	550,000.00
SPECIAL DETOUR 7	0102 2 7		LS	1.000	0.880	+0.000	0.880	88	60,000.0000	52,800.00
SPECIAL DETOUR 8	0102 2 8		LS	1.000	1.000	+0.000	1.000	100	290,000.0000	290,000.00
COMMERCIAL MATERIAL FOR TEMPORARY DRIVEWAY MAI	0102 3		CY	289.000	88.800	+0.000	88.800	31	75.0000	6,660.00
TRAFFIC CONTROL OFFICER	0102 14		HR	124.000	498.000	+0.000	498.000	402	75.0000	37,350.00
WORK ZONE SIGN	0102 60	003	ED	173,307.000	184,268.000	+5,216.000	189,484.000	109	0.2000	37,896.80
WORK ZONE SIGN convict labor non-participating	0102 60	003	ED	69.000N	69.000	+0.000	69.000	100	0.2000	13.80
TEMPORARY BARRIER, F&I, LOW PROFILE, CONCRETE	0102 71 13		LF	11,633.000	8,892.000	+0.000	8,892.000	76	19.0000	168,948.00
TEMPORARY BARRIER, F&I, ANCHORED	0102 71 15		LF	5,870.000	3,738.000	+0.000	3,738.000	64	32.0000	119,616.00
TEMPORARY BARRIER, F&I, FREE STANDING	0102 71 16		LF	6,721.000	3,616.000	+0.000	3,616.000	54	17.0000	61,472.00
TEMPORARY BARRIER, RELOCATE, LOW PROFILE CONCR	0102 71 23		LF	7,138.000	6,276.000	+0.000	6,276.000	88	12.0000	75,312.00

  - Estimate submitted for approval



Approval Level	Approval Level Role
1	PrCRPA
Approval Date	**Comments**
07/18/2023 3:56:22 PM	
2	PrCRE
07/19/2023 4:00:38 PM	
3	PrPPrCServiceAccount
07/24/2023 6:58:13 AM	

ProjectSolve SharePoint (PSSP)

Joaquin Olivella, P.E.
Florida Department of Transportation
District 2 Gainesville Construction Engineer

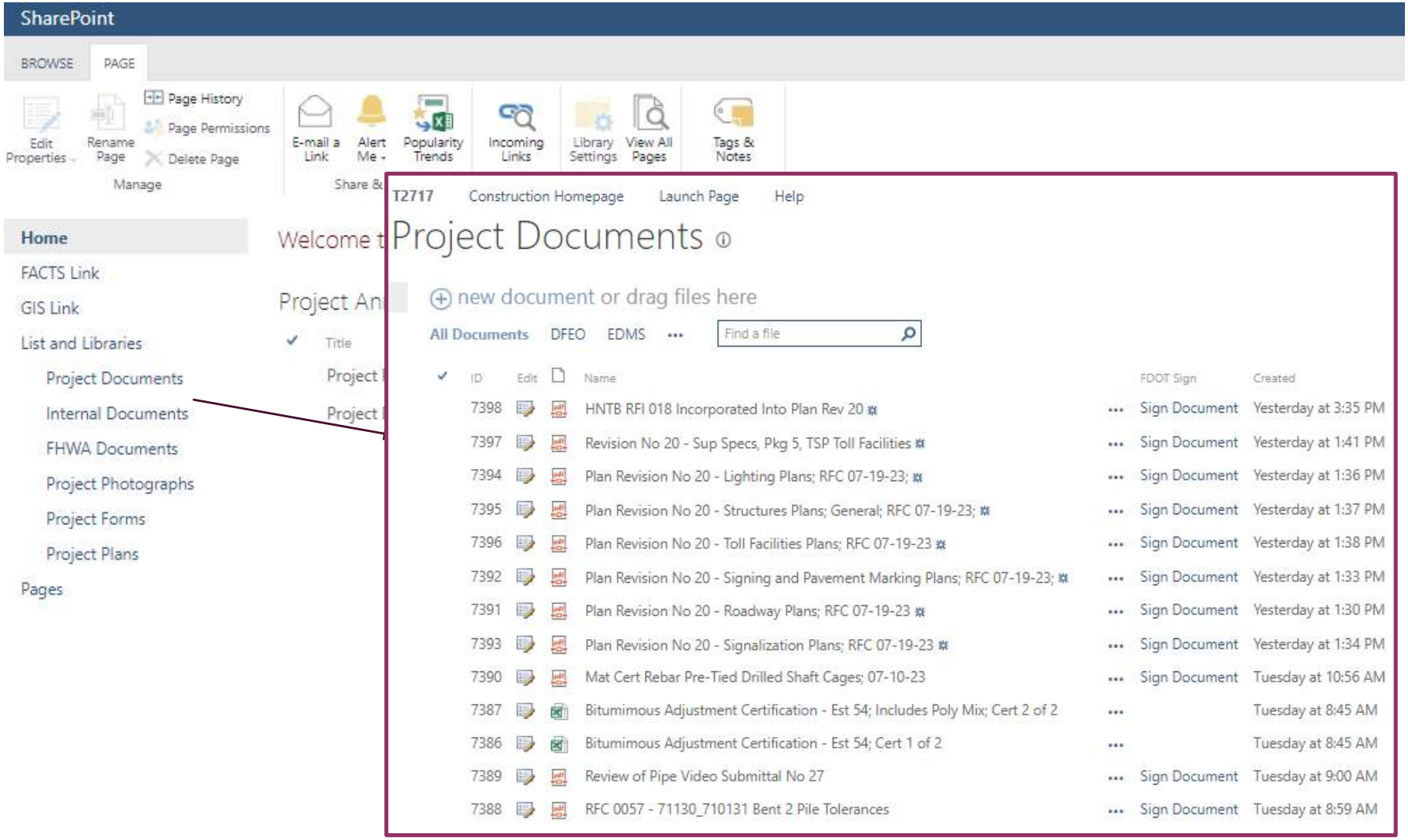
PSSP

- **ProjectSolve SharePoint Purpose**
  - Web-based collaboration site
  - Sharing project documents and files in a secure manner
  - Ensure everyone is using the same and the latest document version
  - Project files notifications
  - This platform is part of the process that ensures all contract documents are stored timely in accordance with the Office of Information Systems(OIS) standard procedures
  - As-Built Plans
  - Can be accessed by FDOT personnel

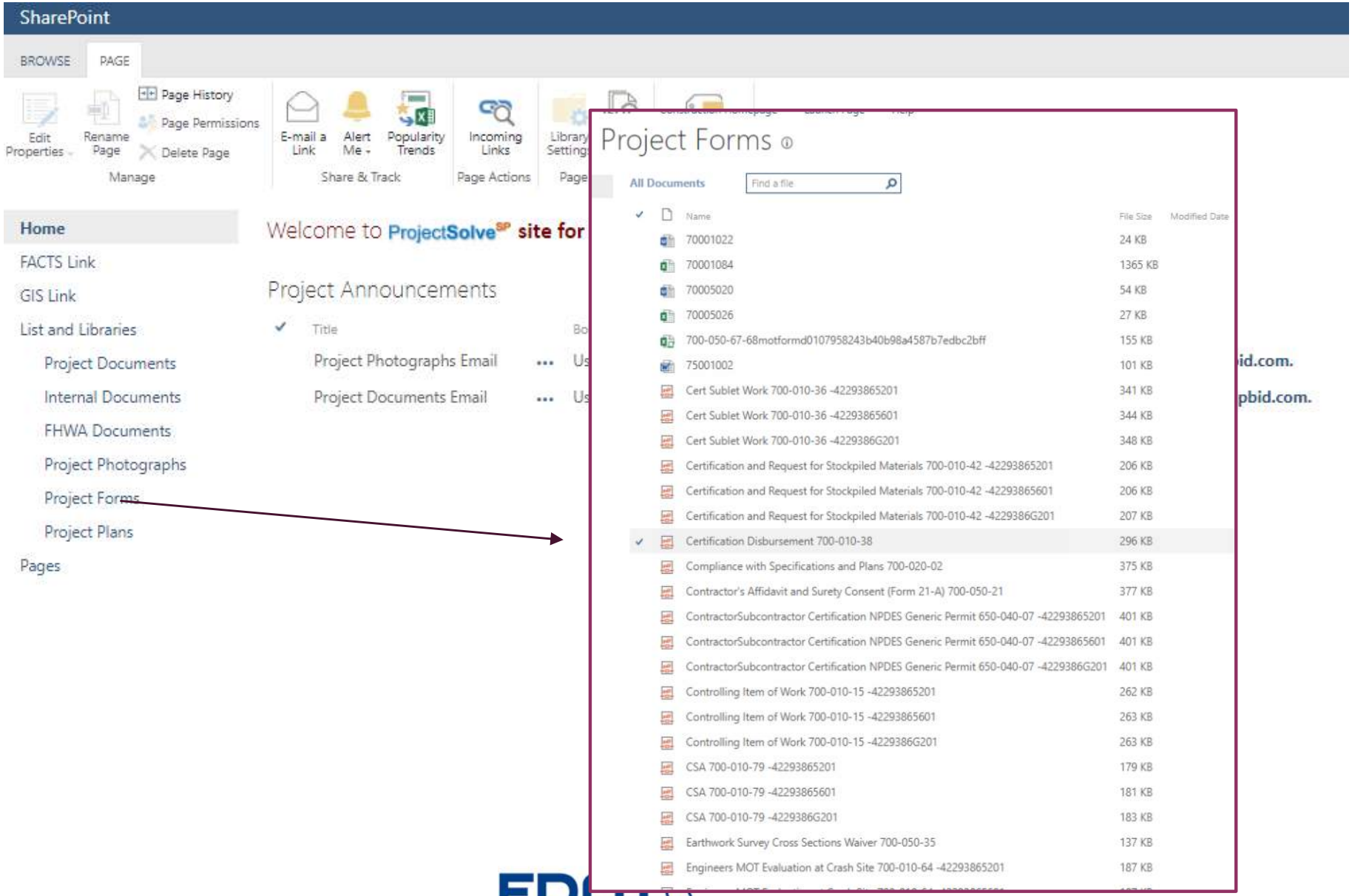
PSSP

- **Project Specific**
  - Each FDOT Construction project will have a PSSP site active during the life of the Contract and it is intended to be used a SharePoint site for the project
  - Control of documents
    - Construction Plans and Specifications
    - Permits
    - Contractor’s Submittals
    - Project Photographs
  - Project Personnel
    - Since this is unique to FDOT projects, project personnel must request access
    - Different levels of authority
  - Documents will be categorized, reviewed and attributed for permanent upload onto the Electronic Documents Management System (EDMS)

PSSP – Project Documents



PSSP – Forms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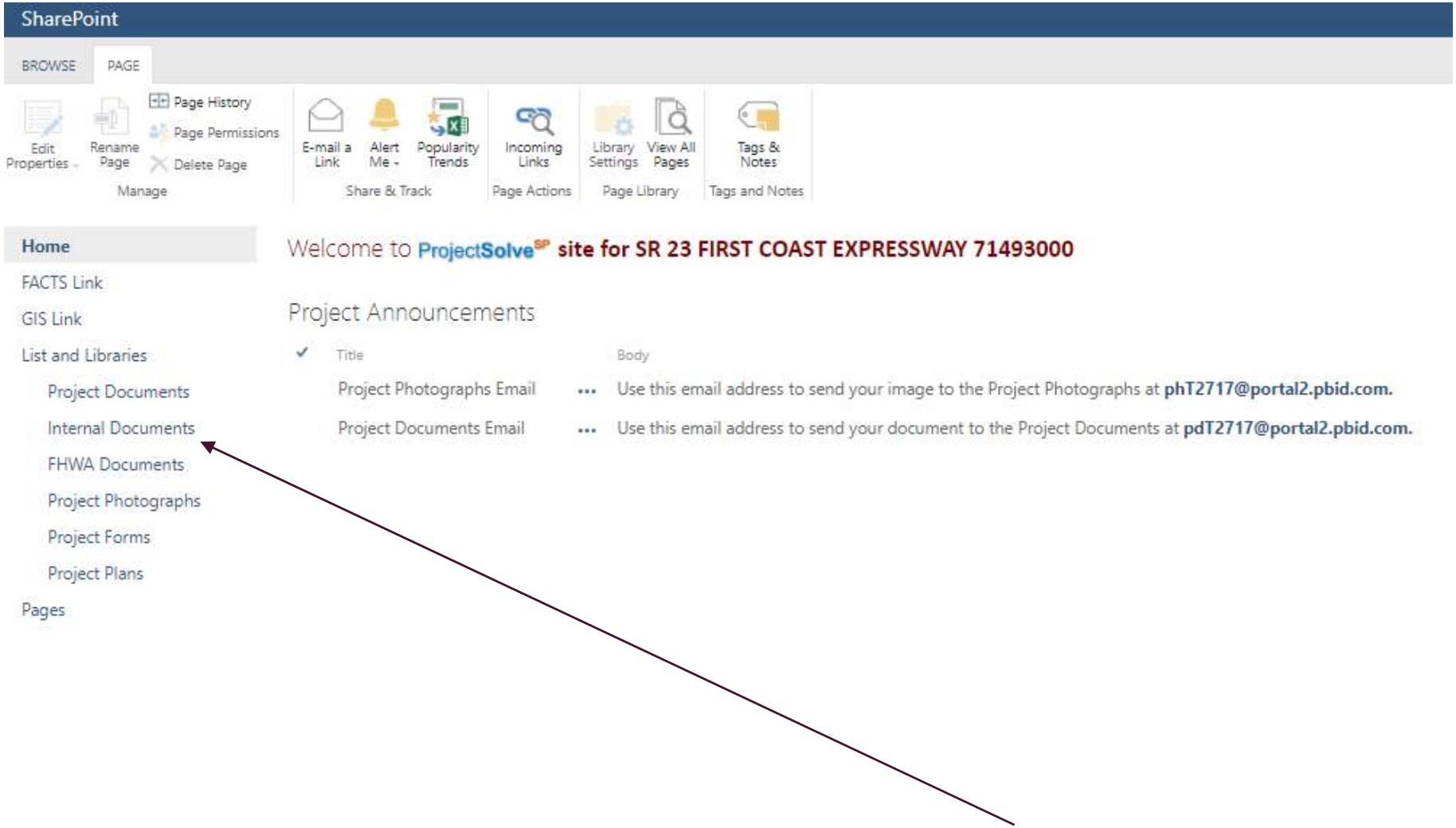
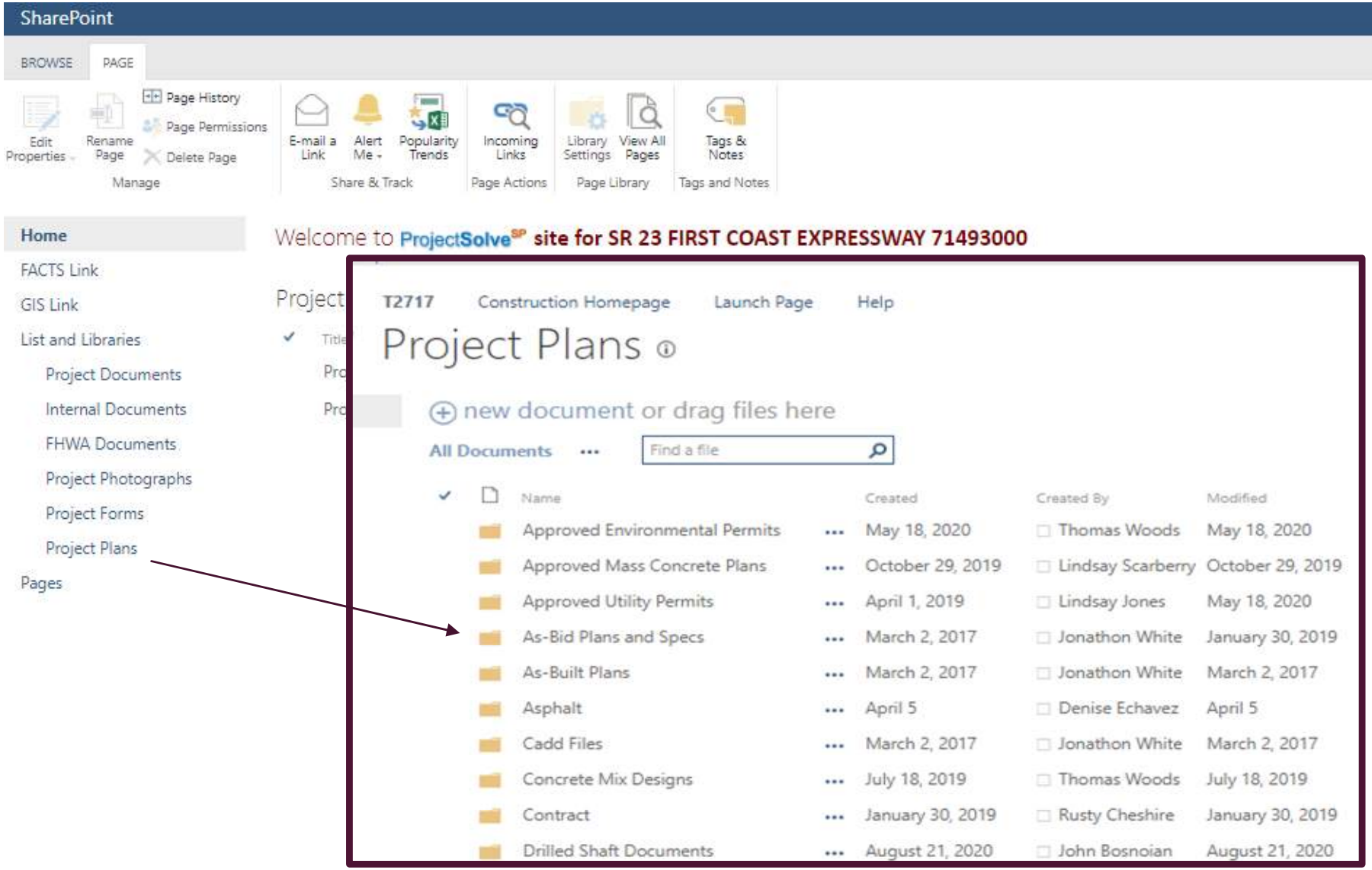
Cert Sublet Work 700-010-36 -42293865601 344 KB
Cert Sublet Work 700-010-36 -4229386G201 348 KB
Certification and Request for Stockpiled Materials 700-010-42 -42293865201 206 KB
Certification and Request for Stockpiled Materials 700-010-42 -42293865601 206 KB
Certification and Request for Stockpiled Materials 700-010-42 -4229386G201 207 KB
Certification Disbursement 700-010-38 296 KB
Compliance with Specifications and Plans 700-020-02 375 KB
Contractor's Affidavit and Surety Consent (Form 21-A) 700-050-21 377 KB
ContractorSubcontractor Certification NPDES Generic Permit 650-040-07 -42293865201 401 KB
ContractorSubcontractor Certification NPDES Generic Permit 650-040-07 -42293865601 401 KB
ContractorSubcontractor Certification NPDES Generic Permit 650-040-07 -4229386G201 401 KB
Controlling Item of Work 700-010-15 -42293865201 262 KB
Controlling Item of Work 700-010-15 -42293865601 263 KB
Controlling Item of Work 700-010-15 -4229386G201 263 KB
CSA 700-010-79 -42293865201 179 KB
CSA 700-010-79 -42293865601 181 KB
CSA 700-010-79 -4229386G201 183 KB
Earthwork Survey Cross Sections Waiver 700-050-35 137 KB
Engineers MOT Evaluation at Crash Site 700-010-64 -42293865201 187 KB

PSSP – Internal Documents



PSSP – Project Pans



FDOT ACEC

PM ACADEMY

Construction Claims and the DRB Process

Thomas Woods, P.E.
HNTB Corporation
Senior Project Engineer

Contract Claims

Standard Specifications for Road and Bridge Construction

Section 1.3 Definitions

Contract Claim (Claim)

A written demand submitted to the Department by the Contractor in compliance with 5-12.3 seeking additional monetary compensation, time, or other adjustments to the Contract, the entitlement or impact of which is disputed by the Department.

Important Note: Claims are the result of a disagreement over entitlement or impact.

Contract Claims

REFERENCES

Standard Specifications for Road and Bridge Construction (SSRBC)

- **Section 5-12 Claims by Contractor**
- **Section 8-7.3.2 Contract Time Extensions (Delay)**

Construction Project Administration Manual (CPAM)

- **Section 7.5 Construction Contract Claims**

All claim analysis should start by reading the contract.

The SPE and PA are responsible for recognizing a claim situation, and usually makes the initial determination whether an adjustment or a demand made by the Contractor is contested and processed as a claim, or is resolved by a routine Supplemental Agreement, Work Order, or increased quantity where there is an existing pay item.

Contract Claims

CLAIM BREAKDOWN AND TIMELINES

SSRBC Section 5-12.2 Notice of Claim

The Contractor shall submit written notification to the Engineer of the intention to make a claim for additional compensation before beginning the work on which the claim is based. This is referred to as the Notice of Intent, or NOI.

- This must be submitted prior to the Contractor starting work which is in dispute.
- Allows the Contractor to protect their rights for additional compensation and/ or time on an issue.

SSRBC Section 5-12.7 Mandatory Claim Records

The Contractor shall, once a notice of intent to claim has been timely filed, and not less than weekly thereafter as long as appropriate, submit the Contractor's daily records to the Engineer and be likewise entitled to receive the Department's daily records.

Contract Claims

CLAIM BREAKDOWN AND TIMELINES (continued)

SSRBC Section 5-12.3 Content of Written Claim

The Contractor shall submit a certified written claim to the Department which will include for each individual claim all information required by Specification 5-12.3.

- Factual Statement of the claim.
- Dates and times on action that resulted in the claim.
- Reference documents and records of communications.
- Contract provisions that support the claim.
- Details of the amount requested in the claim.
- Additional direct and indirect costs requested.
- Time request.

Contract Claims

SSRBC Section 5-12.9 Certificate of Claim

The Contractor shall certify under oath and in writing, in accordance with the formalities required by Florida law, that the claim is made in good faith, that the supportive data are accurate and complete…

Claims should be evaluated by the SPE and PA for validity. If a claim is valid or has some aspects that indicate that compensation is due, every effort should be made to negotiate out the issue and proceed with a Supplemental Agreement or Work Order. This includes possible resolution at the NOI phase.

Claims can be referred to the Dispute Review Board

Contract Claims

Some Common Claims

- Utilities – Either unforeseen, unknown or delays in relocation.
- Unforeseen Condition – Subsoil, hard layers or general unknowns.
- Material Delay and Price Escalations – This is a recent phenomenon.
- Existing Infrastructure Conditions – Typically when improving a current bridge or roadway, the condition is not set up for the improvement. Cross slopes, concrete conditions, section dimensions.

Project Specific Dispute Review Boards

REFERENCES

Contract Special Provisions

Section 8-3.7 Dispute Review Board

Division I Design Build Specifications

Section 8-3.7

Construction Project Administration Manual (CPAM)

Section 3.4 Dispute Review Board

Purpose: The Board will provide special expertise to assist in and facilitate the timely and equitable resolution of disputes and claims between the Department and the Contractor in an effort to avoid construction delay and future claims.

Dispute Review Boards

Key Provisions of Dispute Review Boards

- There are three members: one chosen by FDOT, one by the Contractor and the Chairmen is chosen by the other two members. All members subject to approval.
- Conflict of interest policy applies.
- Their purpose is not to relieve the contractor and State from resolving differences.
- Recommendations are not binding on either party.
- FDOT pays the cost for the members to attend meetings. However, the cost for hearings are split between the Contractor and FDOT.

Key Provisions of Regional Dispute Review Boards – Not Project Specific

- There are three regular members and two alternates designated for each RDRB for a period of one calendar year. Boards set up by the Central Office
- A RDRB does not have regular periodic meetings unless requested by the DCE.
- For capacity only projects, a RDRB can be deemed sufficient based on the complexity of the project or a decreased probability of issues.
- To be used when dictated by Specification, particularly on value added items or warranty.

Dispute Review Boards

Dispute Review Board Hearings

It is important to review the DRB Operating Procedures on the State Construction Office website.

- Either party can request a hearing,
- Position papers are submitted to the DRB members and the two parties a least 15 calendar days before the hearing.
- The parties are permitted to submit a rebuttal paper to the DRB and the other party, at least 5 days prior to the hearing.
- During a hearing, each party presents its case, the party that initiated the hearing is permitted to go first. Hearings are generally done in an informal manner with no formal record kept of the hearing. Therefore lawyers are discouraged.
- DRB ruling will be issued in writing to both parties.
- It is important to note that recommendations are not binding.

Construction Contract Modifications (F.S. 337.11.9)

Joaquin Olivella, P.E.
Florida Department of Transportation
District 2 Gainesville Construction Engineer

Contract Changes – Types

- **Work Orders**
  - CPAM 7.3
  - Initial Contingency Amount pay-item - 999-25
    - Delay Start of Construction Time
    - Unforeseen work
    - Dispute Review Board
    - Specification changes
    - DCE Memo implementation
    - Grant Contract Time

- **Contingency Supplemental Agreement**
  - Pay-item 9999-21
  - Same as above
  - Funds need to be encumbered after using 75% of the pay-item above

Contract Changes – Types

- **Supplemental Agreements**
  - CPAM 7.3
  - Unforeseen work
  - Change limits of construction
  - Settle contract claims
  - Work deleted
  - Cost Savings Initiative Proposal
  - Grant Contract Time
  - Add pay-items

- **Unilateral Payment**
  - Same as above but only used when the Department cannot agree on price with the Contractor

Contract Changes – Types

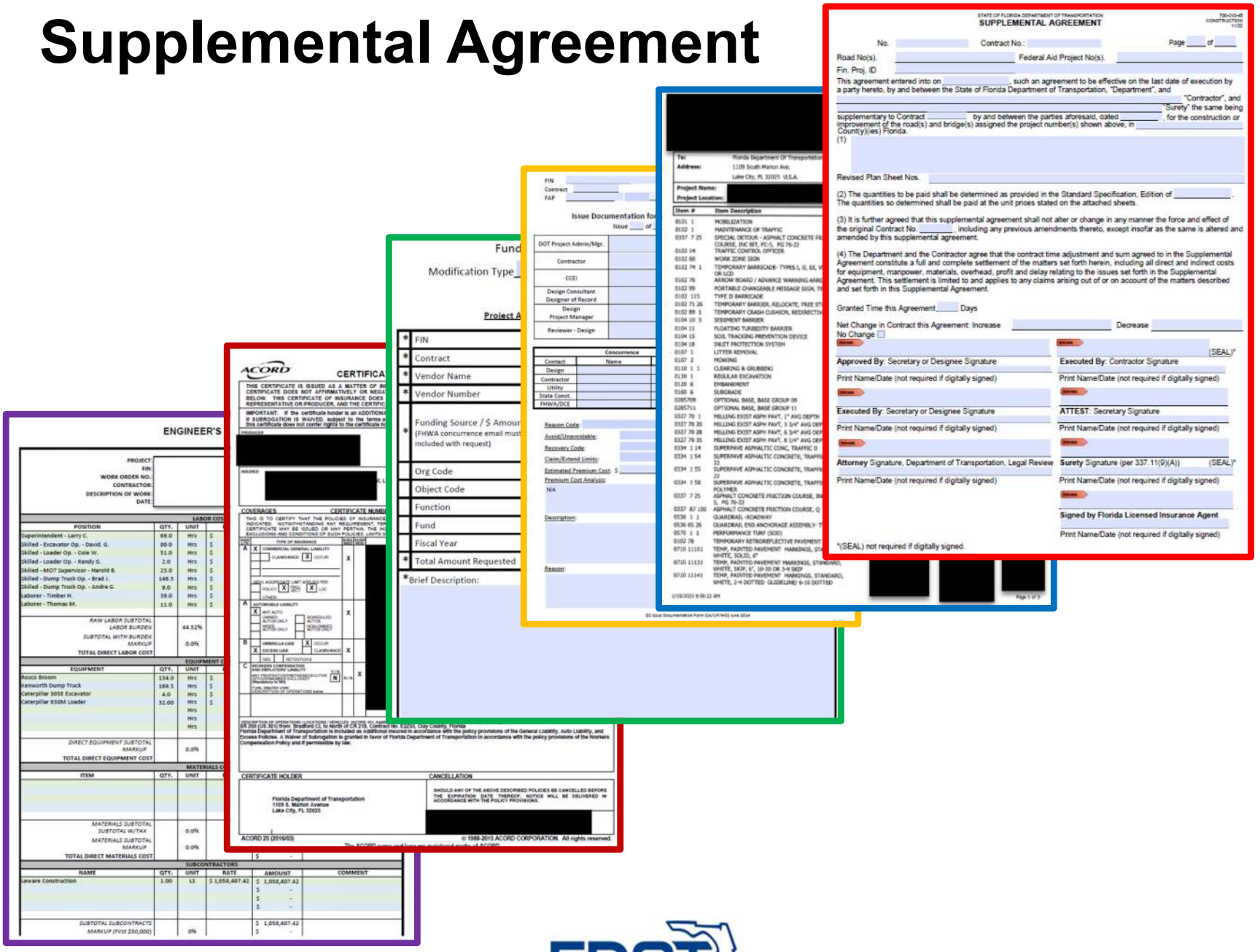
- **Extra Work or Delays Time Extension**
  - CPAM 7.2
  - The critical path must be negatively affected
    - Extra Work
    - Delay - Contractor must submit initial time extension request within 10 days of the commencement of the delay and final time extension request within 30 days of the elimination of delay
    - Determination of time extension will likely require CPM or Work Schedule analysis
  - Contractor's Time Extension Request, Form No. 700-010-56

- **Weather/Holiday/Special Event Days Time Extension**
  - CPAM 7.2
  - Controlling Items of Work must be delayed 50% or more of the day
  - Based on Work Plan or CPM Schedule

Contract Changes - Documentation

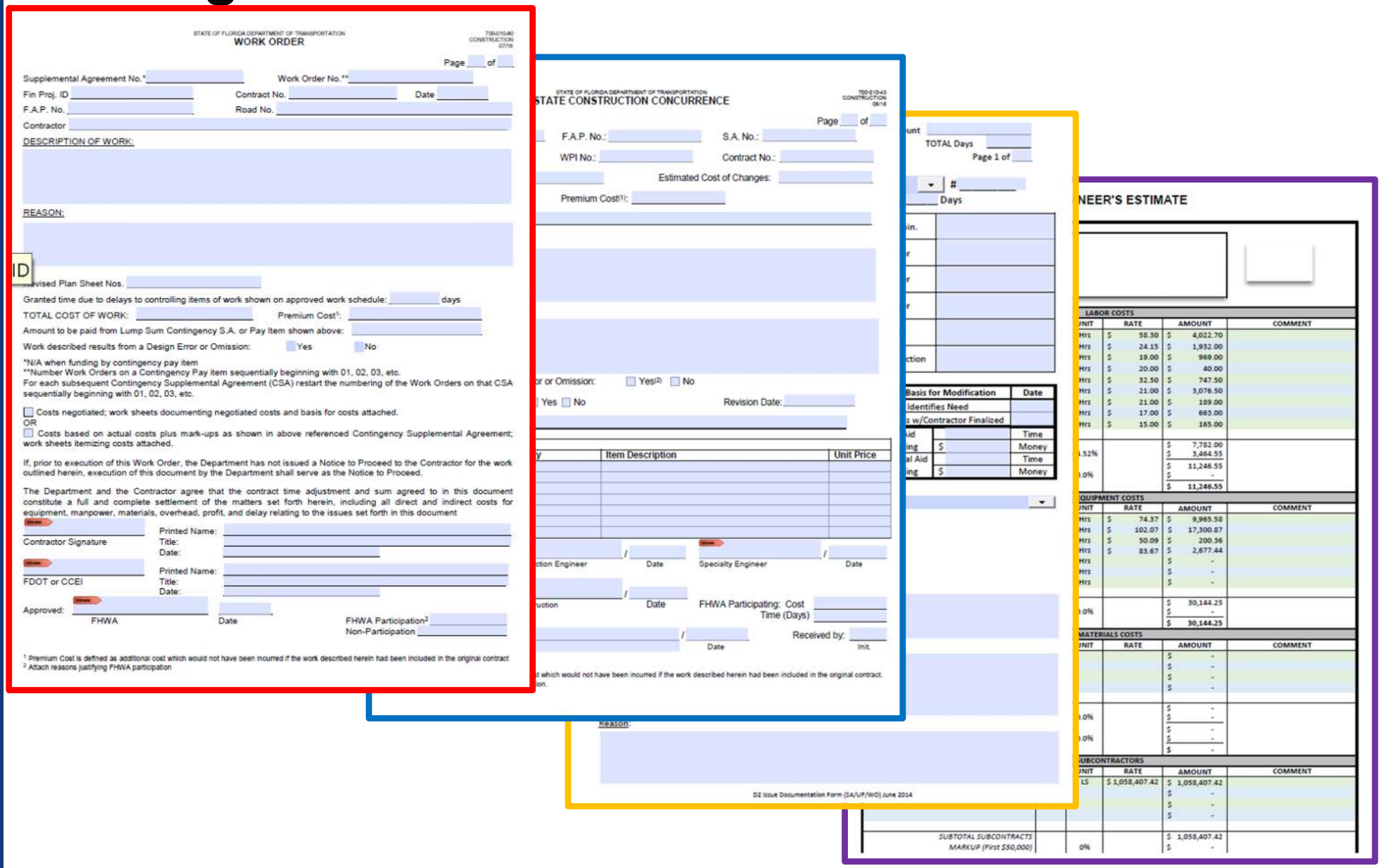
- **Supporting documentation for Supplemental Agreements and Unilateral Payments**
  - Entitlement Analysis and Engineer's Estimate
    - see Guidance Document 7-3-A
  - Daily Work Reports
  - Correspondence
  - Certificates of Insurance
  - Office of Legal Counsel approval
  - Encumbrance of Funds approval
  - Statewide Averages / Invoices / Quotes
  - Blue Book Rental Rate sheet(s)
  - Certified Payrolls for labor rates
  - Letter indicating Contractor's Labor Burden percentage
  - Project Schedule
  - Contract documents

Supplemental Agreement



FDOT

Change Orders - Work Order



STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION
WORK ORDER

Supplemental Agreement No.* _____ Work Order No.** _____
Fin Proj. ID _____ Contract No. _____ Date _____
F.A.P. No. _____ Road No. _____
Contractor _____
DESCRIPTION OF WORK:

REASON:

Revised Plan Sheet Nos.
Granted time due to delays to controlling items of work shown on approved work schedule: _____ days
TOTAL COST OF WORK: _____ Premium Cost[1]: _____
Amount to be paid from Lump Sum Contingency S.A. or Pay Item shown above:
Work described results from a Design Error or Omission: Yes No

*N/A when funding by contingency pay item
**Number Work Orders on a Contingency Pay item sequentially beginning with 01, 02, 03, etc.
For each subsequent Contingency Supplemental Agreement (CSA) restart the numbering of the Work Orders on that CSA sequentially beginning with 01, 02, 03, etc.

Costs negotiated; work sheets documenting negotiated costs and basis for costs attached.
OR
Costs based on actual costs plus mark-ups as shown in above referenced Contingency Supplemental Agreement; work sheets itemizing costs attached.

If, prior to execution of this Work Order, the Department has not issued a Notice to Proceed to the Contractor for the work outlined herein, execution of this document by the Department shall serve as the Notice to Proceed.

The Department and the Contractor agree that the contract time adjustment and sum agreed to in this document constitute a full and complete settlement of the matters set forth herein, including all direct and indirect costs for equipment, manpower, materials, overhead, profit, and delay relating to the issues set forth in this document

Contractor Signature — Printed Name: / Title: / Date:
FDOT or CCEI — Printed Name: / Title: / Date:
Approved: FHWA Date — FHWA Participation[2] / Non-Participation

[1] Premium Cost is defined as additional cost which would not have been incurred if the work described herein had been included in the original contract
[2] Attach reasons justifying FHWA participation

STATE CONSTRUCTION CONCURRENCE

F.A.P. No.: S.A. No.:
WPI No.: Contract No.:
Estimated Cost of Changes:
Premium Cost[1]:
Or Omission: Yes[2] No
Yes No Revision Date:

Item Description	Unit Price

Specialty Engineer / Date
FHWA Participating: Cost / Time (Days)
Received by: Init.

Basis for Modification | Date
Identifies Need
s w/Contractor Finalized
Time
Money
Time
Money

TOTAL Days
Page 1 of
Days

Reason:

D2 Issue Documentation Form (SA/UP/WO) June 2014

NEER'S ESTIMATE

LABOR COSTS				
UNIT	RATE	AMOUNT	COMMENT
Hrs	$ 58.30	$ 4,022.70	
Hrs	$ 24.15	$ 1,932.00	
Hrs	$ 19.00	$ 969.00	
Hrs	$ 20.00	$ 40.00	
Hrs	$ 32.50	$ 747.50	
Hrs	$ 21.00	$ 3,076.50	
Hrs	$ 21.00	$ 189.00	
Hrs	$ 17.00	$ 665.00	
Hrs	$ 15.00	$ 165.00	
		$ 7,782.00	
1.52%		$ 3,464.55	
		$ 11,246.55	
0.0%		$ -	
		$ 11,246.55	

EQUIPMENT COSTS			
UNIT	RATE	AMOUNT	COMMENT
Hrs	$ 74.37	$ 9,965.58	
Hrs	$ 102.07	$ 17,300.87	
Hrs	$ 50.09	$ 200.36	
Hrs	$ 83.67	$ 2,677.44	
Hrs		$ -	
Hrs		$ -	
Hrs		$ -	
		$ 30,144.25	
0.0%		$ -	
		$ 30,144.25	

MATERIALS COSTS			
UNIT	RATE	AMOUNT	COMMENT
		$ -	
		$ -	
		$ -	
		$ -	
		$ -	
0.0%		$ -	
0.0%		$ -	
		$ -	
		$ -	

SUBCONTRACTORS			
UNIT	RATE	AMOUNT	COMMENT
LS	$ 1,058,407.42	$ 1,058,407.42	
		$ -	
		$ -	
		$ -	
SUBTOTAL SUBCONTRACTS		$ 1,058,407.42	
MARKUP (First $50,000)	0%	$ -	

Contract Changes – D2 Documentation Issue

Reason Code:

Avoid/Unavoidable:

Recovery Code:

Claim/Extend Limits:

Estimated Premium:

Premium Cost Analysis:

101 Necessary pay item(s) not included in contract
103 Incorrect or insufficient subsoil information includ
104 Incorrect pay items for earthwork, embankment,
105 Discrepancies between plan notes, plan details,
106 Utility Owner/Agency caused conflicts: wrong siz
107 MOT: Modification of Maintenance of Traffic for p
108 Plans do not describe scope of work (use a more
112 Phasing or plan components not constructible as
113 Modification to pavement design required
115 Required drainage modifications

2 - Avoidable: Production* FDOT

0 - Unavoidable: No Remedial Action Required
1 - Avoidable: Production* Consultant
2 - Avoidable: Production* FDOT
3 - Avoidable: Consultant CEI
4 - Avoidable: FDOT CEI
5 - Avoidable: 3rd Party

FDOT

FDOT ACEC

PM ACADEMY

Contract Change Review For FHWA Participation

Jason Bordner
Florida Department of Transportation
District 2 District Construction

CONTRACT CHANGE REVIEW FOR FHWA PARTICIPATION

- **Why review for FHWA participation?**
  - Supplemental Agreements, Work Orders, and Unilateral Payments can result in increases or decreases to time and money that don't always qualify for Federal Highway Administration (FHWA) participation.
  - If contracts are funded by FHWA, changes must be reviewed to determine how much time and money qualifies. Nonparticipating amounts are covered by other sources like state funds instead.
- **Who determines participation amounts for time and money?**
  - Project specific construction staff (CEI) such as project administrator (PA) submit a package of information about the changes with a recommended disposition for each issue.
  - A District Construction office representative reviews the package and PA recommendation to makes final determination on delegated FHWA projects.
  - The FHWA D2 Transportation Engineer reviews the package and PA recommendation to make final determination on changes for nondelegated (>$500k on major projects, >$150k on nonmajor, and every Title 23 Discretionary Grant projects) FHWA Projects of Division Involvement (PoDI projects).
    - Major projects (>$500M) = All First Coast Expressway Projects and I-95 Corridor Widening Project segments
    - Nonmajor (<$500M) = I-10 @ US 301 Interchange Project
- **What are components of a review process?**
  - Examination of change items to assess participation eligibility.
  - Analysis on basis for payment.
  - Evaluation of contract time adjustment.

ITEM EXAMINATION FOR PARTICIPATION ELIGIBILITY

- **Participating work must be consistent with original scope of work, within project boundaries, and show value added. It can be needed for effective preventative maintenance or to make the project functionally operational.**
- **What are examples of nonparticipating changes?**
  - Rework from carelessness, negligence, understaffing, inefficiencies, or incompetence
  - Work resulting from insufficient subsoil investigation
  - Construction or Design errors
  - Repair or replacement due to 3rd party damage or theft of materials or equipment
  - Routine maintenance or remedial items
    - Crash attenuator
    - Desilting drainage
    - Litter pickup and mowing
  - Utility or right of way delays
  - Spare parts for the maintaining agency not used in construction
  - Premium costs

BASIS OF PAYMENT ANALYSIS

- **FHWA participates within the project scope in accordance with contract specifications.**
- **Participation amount must be consistent with an engineer's independent estimate.**
  - How is an independent estimate calculated?
    - Applicable markups, material costs, and bluebook hourly rates for labor and equipment.
    - Current market price averages or comparable with amounts on recently let projects.
    - Overrun at a unit price included in the original contract.
    - Documented actual costs of the contractor.
- **Payment must exclude premium cost:**
  - The additional cost of a contract change that would not have been incurred if the work had been included in the original contract and are dollar amounts paid for non-value added work.
    - Non-value added work can occur in three distinct situations:
      - Work delays or inefficiencies - Premium costs are total damages paid to the Contractor.
      - Rework - Premium costs are the dollar amount of the original items of work that must be removed, plus removal costs.
      - Extra cost – Premium costs are the net difference between the final agreed prices paid to the Contractor and what the cost would have been had the extra work been included in the original bid at letting.

CONTRACT TIME ADUSTMENT EVALUATION

- **Extra contract days can be granted for schedule impacts.**
  - The contractor is required to submit and maintain a project schedule that details the timing for controlling items of work or critical path activities from start to finish of the project. The schedule should depict the planned operation by day or week.
  - If work covered by a contract change affects controlling items of work or critical path activities, a change in the contact time may be justified.
- **Time can be warranted by events beyond the control of contractor.**
  - Labor strikes, protests, and riot
  - War
  - Acts of God
- **Some items are generally denied for time adjustment.**
  - Maintenance shutdowns
  - Suspension due to safety or permit violations
  - Utility delays

EXAMPLE FHWA PARTICIPATION DETERMINATION

- A milling and resurfacing project including turnouts and mitered end replacements is finishing asphalt paving a week before the end of contact time.
- The CEI project administrator gets a complaint from the community center that new mitered ends are placed without widening their driveway 10 feet as previously discussed with FDOT.
- The CEI communicates with all applicable parties and determine widening the driveway is necessary to improve turning movements for enhanced safety.
- Independent engineers estimate using contract unit prices is $19K and eight days critical path impact.
- The CEI negotiates a contract change for $20k and eight days.

	Contract Change	Engineer's Estimate	FHWA Participation	FHWA Disposition
asphalt pavement @ contract unit price	$12,000	$12,000	$12,000	value added
mitered ends & concrete pads @ contract unit price	$5,000	$5,000	$0	rework- premium cost
remobilization of equipment	$1,700	$1,200	$0	inefficiency- premium cost
clearing and grubbing	$1,000	$500	$800	value added
documented materials cost increase	$300	$300	$0	extra cost- premium cost
Total Payment	$20,000	$19,000	$12,500	
acquisition time beyond contract	5 days	5 days	5 days	critical path controlling item
mitered ends, concrete pads, sod, & demolition	2 days	2 days	0 days	rework
installation earthwork & paving	1 day	1 day	1 day	critical path controlling item
Total Time	8 days	8 days	6 days	

FHWA FUNDING ELIGIBILITY GUIDANCE DOCUMENTS

- Construction Project Administration Manual Sections 7.2.9 and 7.3.10
- FHWA-NHI-134077 Core Curriculum Manual, Section III-B.-10.-(i)

PM ACADEMY

BREAK (10 Minutes)

FDOT ACEC

PM ACADEMY

Compliance/EEO/OJT Project Requirements

JW Hunter, P.E. F.FES
Atkins
Senior Project Engineer

Compliance Models

- Business models vary by FDOT District
- District 2 (headed by Brenda Crews) has centralized both oversight of subcontracts and a separate discipline of compliance with Federal Regulations Title 23.

Compliance Office Primary Components

- Federal Regulations Title 23
  - ✓Civil Rights and Equal Employment Opportunity (EEO)
  - ✓Disadvantaged Business Enterprise (DBE)
  - ✓On the Job Training (OJT)
  - ✓Wages
- Subcontract Administration
  - ✓Sublet verification

EEO

EEO Policy and EEO Officer

- Company must have an approved EEO Policy and designate an EEO Officer
- Should also address hiring practices such as outreach, Veterans, persons with disabilities, etc.

Bulletin Board

- Information should be displayed onsite on a Project Bulletin Board. There are specific requirements for the content which is inspected by the CEI and Compliance Office
- Includes information on Wages and Payroll

WAGES AND PAYROLLS

- FDOT contracts which require compliance with the “government contract acts” include Special Provision Sub-article 7-16, “Wage Rate for Federal-Aid Projects” which specifies the wage table(s) applicable to the specific contract.
- Employees must be paid the minimum wage based on their classification found in wage tables a copy of which is posted on the Jobsite Bulletin Board
- Compliance and CEI ensure that the employee is paid at least that amount
- Applies to hourly employees not salaried or supervisory
- Employees must be paid weekly
- Both Prime and Subcontractors must supply Certified Payrolls showing the hours worked, pay rate, straight time, overtime, withholdings
- The wages are confirmed by onsite employee interviews performed by the CEI
- If not in conformance, payment to the Prime can be withheld

DBE

- FDOT designed the DBE Program to assist small businesses owned and controlled by socially and economically disadvantaged individuals participating on FDOT contracts.
- FDOT requires a contractor to submit and maintain a record of a DBE Affirmative Action Plan to ensure that all subcontractors doing business with FDOT are not discriminating in the administration of contracts with the FDOT.
- Contractor submits their anticipated DBE utilization before beginning work.
- Compliance Office tracks that utilization amount including confirmation of the payment to the sub by the Prime.
- Failure of contractors to enter DBE payments monthly into EOC is a violation of 49 C.F.R. 26.11 and grounds for compliance action up to and including withholding of progress payments.
- CEI and Compliance also review the Commercially Useful Function status of the DBE.

OJT

- Federal program to provide training to workers entering the field or wanting to move up
- Training is done by classification such as roller operator, carpenter, bulldozer operator, etc.
- The number of trainees is set by project size and type
- The Contractor develops a training program and schedule with specific skills to be learned
- CEI observes and tracks the training efforts
- CEI also observes the final “test” and “graduation”
- Trainees can also be “banked” for use on future projects

Subcontract Administration

- Prime Contractor must self perform a percentage of the work based on work type
- They must identify subcontractor firms throught a Sublet or a Rental Agreement
- The sub technically cannot work on the project until the sublet has been approved and entered in the system

Progress and Pre-Activity Meetings

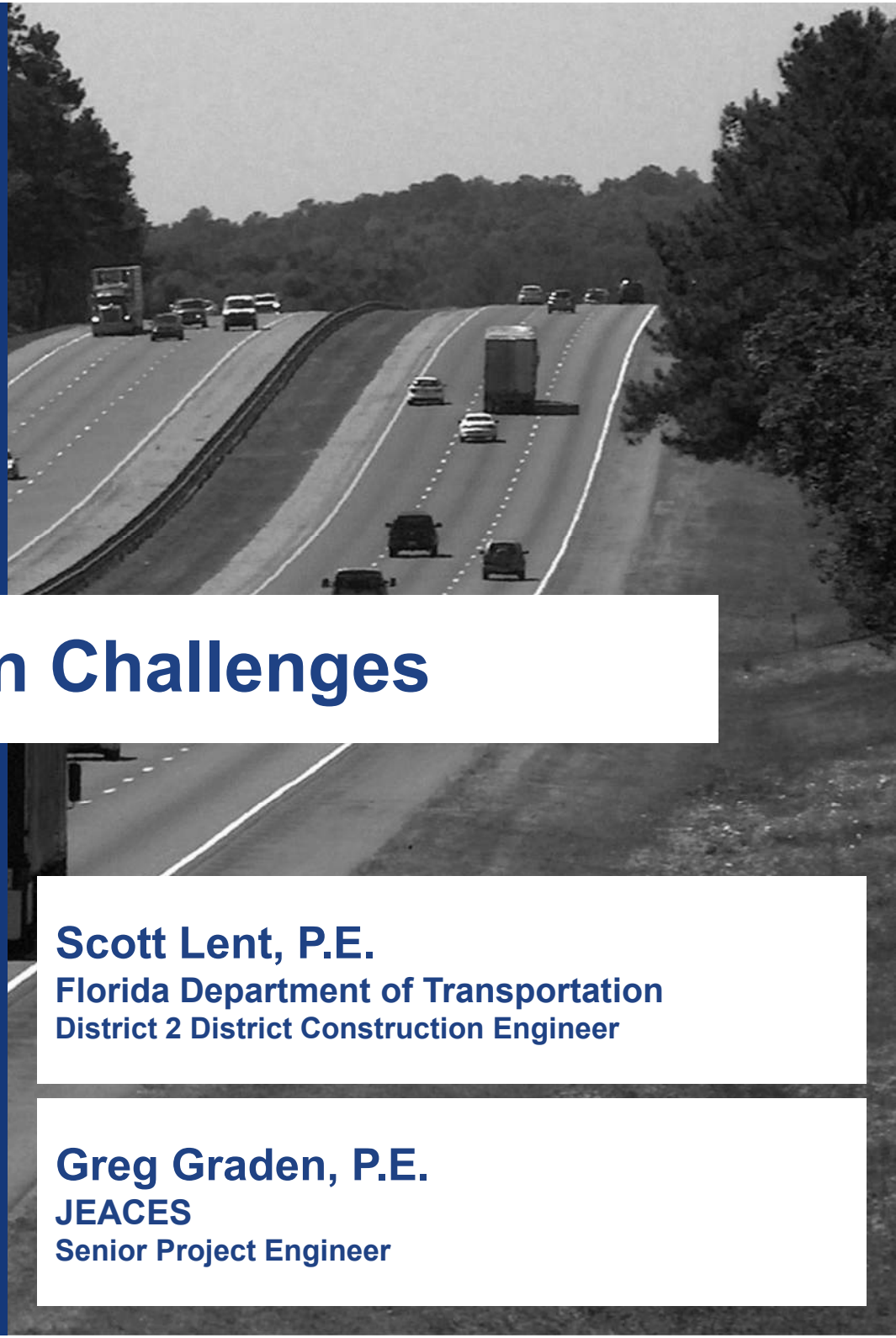
Kenny Geisendorff, P.E.
VIA Consulting Services, Inc.
Senior Project Engineer

Progress Meetings

- **Project Status –**
  - Job Progress - Time / Money $$
  - Holidays / Weather days granted and days in consideration
  - Schedule – Bar Chart / Critical Path Method, Two-three week look ahead
  - MOT
  - Contractor Performance - CPPR
  - Erosion Control
  - RFI / RFC / RFM
  - Change Orders
  - Submittals
  - Sublets
  - Utilities
  - Revisions
  - Specialty items – Bridge coatings, RR, ITS, Tolling
- **Stakeholder Section –**
  - County, Development, Local Municipalities, Maintenance
- **Upcoming Meetings**
- **Don’t hesitate to slow down and discuss the issues at hand. Don’t rush through meeting just to talk about the same issue next meeting.**
- **Hosting a virtual option will allow more stakeholders to attend.**

Pre-activity Meetings

- **These meetings may be held to cover just about any activity.**
- **Cover critical activities**
  - Bridge deck pours, Asphalt/Concrete paving, Traffic shifts, Utility work, etc.
- **Discuss Spec and Plan requirements**
- **Discuss the latest information relative to the project activity**
  - Revisions, DCE Memo, Materials/Design Bulletins, etc.
- **Invite FDOT Discipline Leads & Stakeholders**
- **Could also be an expanded discussion in progress meetings**
- **Understand the recent history of work items that didn't go well –**
  - Recent ADA challenges with maintaining agency.
  - Traffic shifts (i.e. ghost stripes on concrete pavement, interstate lane shields).
  - Thermoplastic application challenges.
  - Beam erection challenges.
  - Railroad coordination concerns.



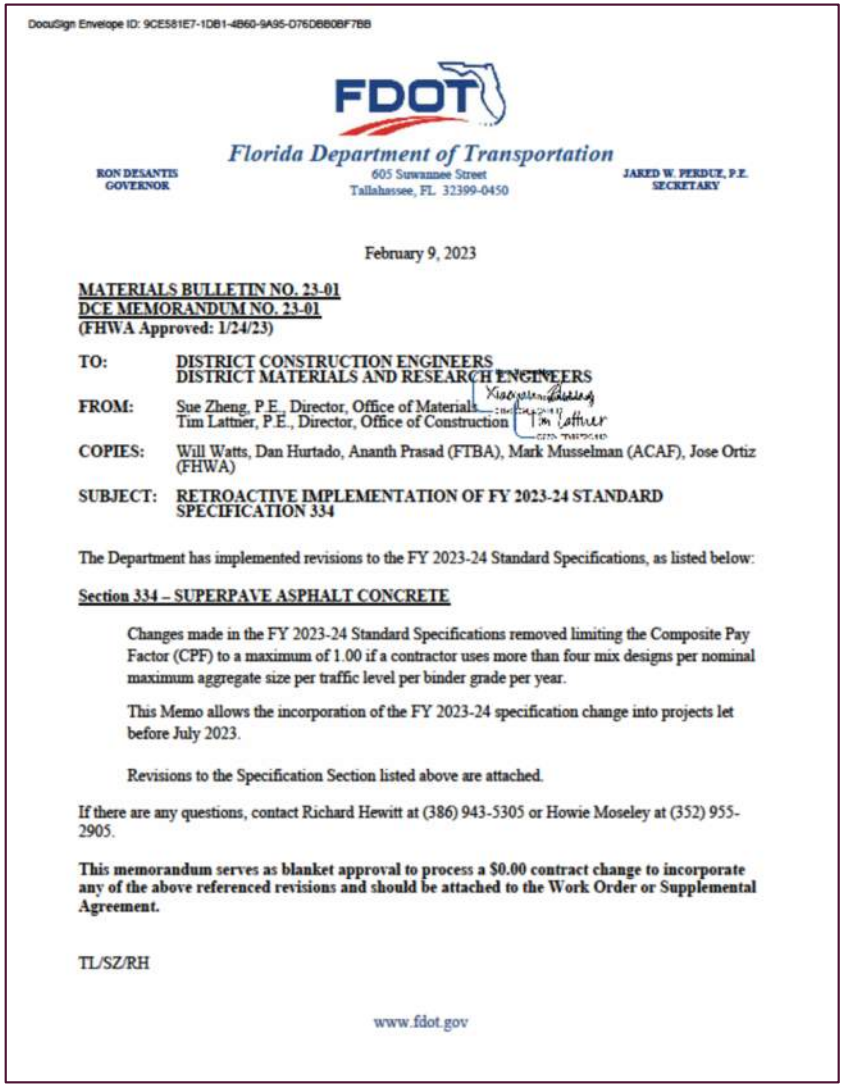
Construction Challenges

Scott Lent, P.E.
Florida Department of Transportation
District 2 District Construction Engineer

Greg Graden, P.E.
JEACES
Senior Project Engineer

Construction Challenges

- It is not uncommon for a CEI Team to face challenges on a construction project.
- A CEI must stay informed of any Department management or policy changes that could affect their project.
- These are often addressed in the form of a DCE Memorandum.



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FDOT

Florida Department of Transportation

RON DESANTIS
GOVERNOR

605 Suwannee Street
Tallahassee, FL 32399-0450

JARED W. PERDUE, P.E.
SECRETARY

February 9, 2023

MATERIALS BULLETIN NO. 23-01
DCE MEMORANDUM NO. 23-01
(FHWA Approved: 1/24/23)

TO: DISTRICT CONSTRUCTION ENGINEERS
DISTRICT MATERIALS AND RESEARCH ENGINEERS

FROM: Sue Zheng, P.E., Director, Office of Materials
Tim Lattner, P.E., Director, Office of Construction

COPIES: Will Watts, Dan Hurtado, Ananth Prasad (FTBA), Mark Musselman (ACAF), Jose Ortiz (FHWA)

SUBJECT: RETROACTIVE IMPLEMENTATION OF FY 2023-24 STANDARD SPECIFICATION 334

The Department has implemented revisions to the FY 2023-24 Standard Specifications, as listed below:

Section 334 – SUPERPAVE ASPHALT CONCRETE

Changes made in the FY 2023-24 Standard Specifications removed limiting the Composite Pay Factor (CPF) to a maximum of 1.00 if a contractor uses more than four mix designs per nominal maximum aggregate size per traffic level per binder grade per year.

This Memo allows the incorporation of the FY 2023-24 specification change into projects let before July 2023.

Revisions to the Specification Section listed above are attached.

If there are any questions, contact Richard Hewitt at (386) 943-5305 or Howie Moseley at (352) 955-2905.

This memorandum serves as blanket approval to process a $0.00 contract change to incorporate any of the above referenced revisions and should be attached to the Work Order or Supplemental Agreement.

TL/SZ/RH

www.fdot.gov

FDOT

Construction Challenges

- Periodically, a CEI Team will face a situation that requires an engineering solution to address an issue.
- Rarely do these situations accommodate a lengthy evaluation period and they often require a quick response to eliminate or minimize impacts to the construction project.
  - Often, no decision is worse that an imperfect decision
- Sometimes, the solution is rather simple and the CEI Project Engineer can rely on their own engineering judgement to solve the issue.
- Other times, the Design EOR will need to be involved.
- When engaging the Design EOR, be sure to copy the FDOT Design Project Manager so they are aware of the issue.

Construction Challenges

- Florida Statute 337.015(3) stipulates that "*To protect the public interest, the Department shall vigorously pursue claims against contractors and consultants for time overruns and substandard work products*".

- The Department's policy to adhere to this requirement can be found in FDOT Procedure No. 375-020-010-f which notes that, "*During the construction phase, project issues may occur that require clarification or evaluation of the construction plans or contract documents. Project issues are generally resolved through a Request for Information (RFI). When further evaluation indicates that a project issue may be due to an error or omission by the Design Consultant (EOR), design revisions or contract modifications may be required.*"

Construction Challenges

- The CEI Team is tasked in determining if an issue represents a potential Design Error and Omission (E&O).
- If it does, the CEI Team must promptly notify their Construction Project Manager who will notify the Design Project Manager.
- As they are not privy to the Design EOR's scope, the CEI Team does not have the ability to - nor are they required to - determine if an issue is a Design E&O.
- The determination of whether the issue is actually a Design E&O is made by the District Design Office, with input from District Construction, who reviews the issue details with consideration to the Design Consultant's original design scope and any relevant correspondence with the Consultant.

Construction Challenges

- Environmental permit compliance
- Contract change negotiations – resolution timeliness and incomplete documentation
- Timely and complete communications – changes in schedule or methods
- Workforce and material availability

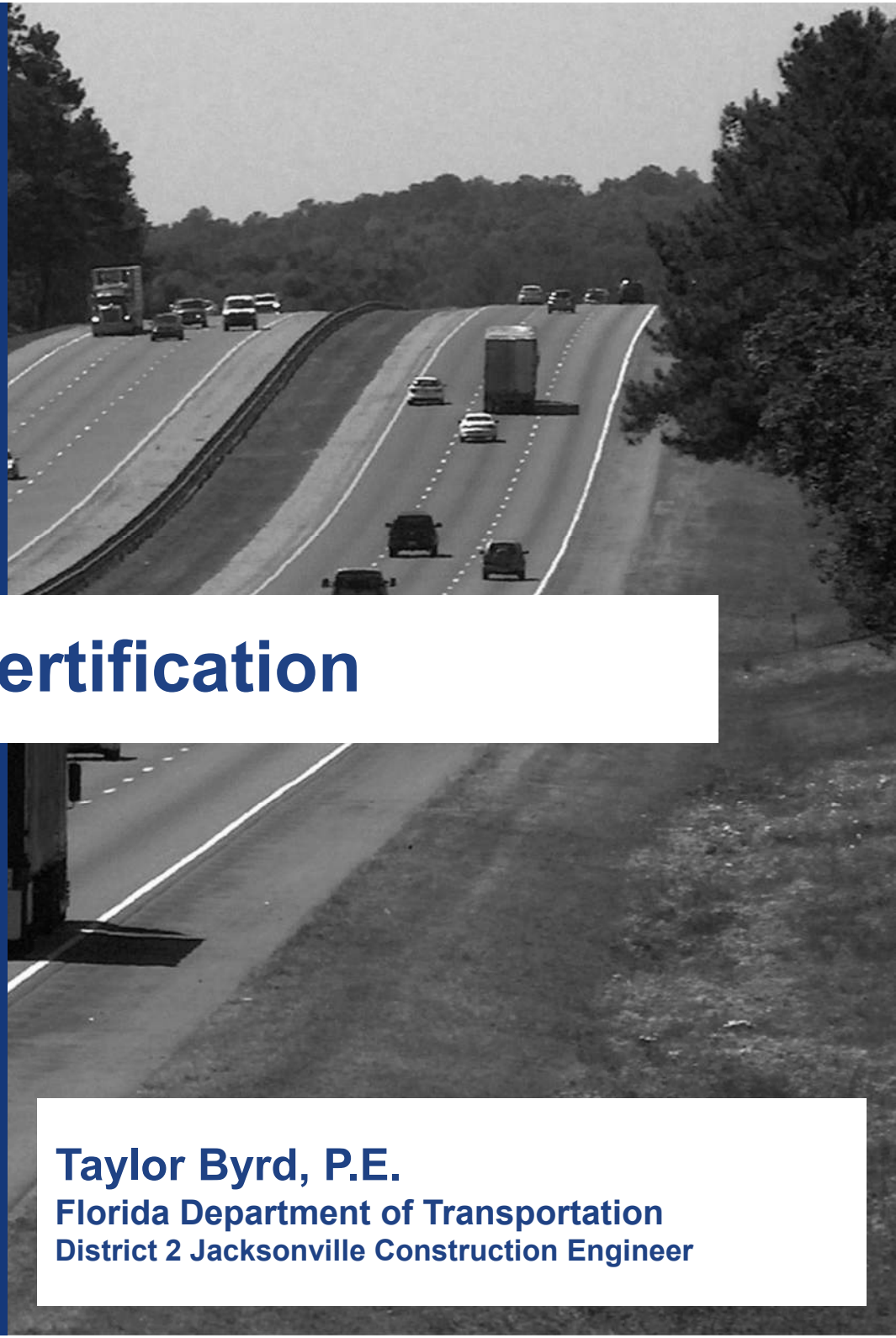
Construction Challenges

- In some rare instances, a Contractor may default on their Contract. This generally leads to the Contract being taken over by the bonding company who will be tasked with completing the project.

- In some instances, a CEI may also impact the project such that there is a potential CEI Error and Omission. The determination of whether the issue is actually a CEI E&O is made by the District Construction Office, with input from Construction Project Manager, who reviews if the CEI may have potential liability for any portion of the issue, determine the appropriate corrective action, and establish a reasonable time frame to implement the solution.

PM ACADEMY

Post Final Acceptance Phase



Material Certification

Taylor Byrd, P.E.
Florida Department of Transportation
District 2 Jacksonville Construction Engineer

Material Certification

- The Materials Acceptance and Certification System is designed around the requirements for Final Project Materials Certification.

MAC Materials Acceptance and Certification System

FDOT

Material Certification

- **Sample Life Cycles complete**
  - Project Administrator has completed comparison packages and any required resolution
  - Sample Finalization guide lists available at: Materials Acceptance and Certification Development (fdot.gov)

Sample Finalization Guide Lists

Asphalt Plant Samples	PDF (806KB)
Rolling Straightedge (Pre 07/2020)	PDF (207KB)
Rolling Straightedge (Post 07/2020)	PDF (210KB)
Soils/Earthwork Materials	PDF (176KB)
ERS Field Density	PDF (182KB)
Structural Concrete Materials	PDF (134KB)

- **Basic Contract Concepts**
  - Method of Measurement
  - Basis of Payment
  - Method of Acceptance

Material Certification

- **Method of Acceptance**
  - Contract documents (i.e., Standard Specifications, TSP, Developmental Specifications, etc.)
    - Talks about sampling requirements for materials
  - Job Guide Schedules (JGS)
    - Standard JGS
      - Let date logic
      - Project Specific requirements that changed the standard method of acceptance.
    - Non-Standard JGS
      - Created by QC date entry for Lump Sum, Design Build, or LAP projects

Material Certification

- **MAC sends conditions (issues) to the Material Certification (MC) Review process.**
  - MC Reviewer begins review when project begins

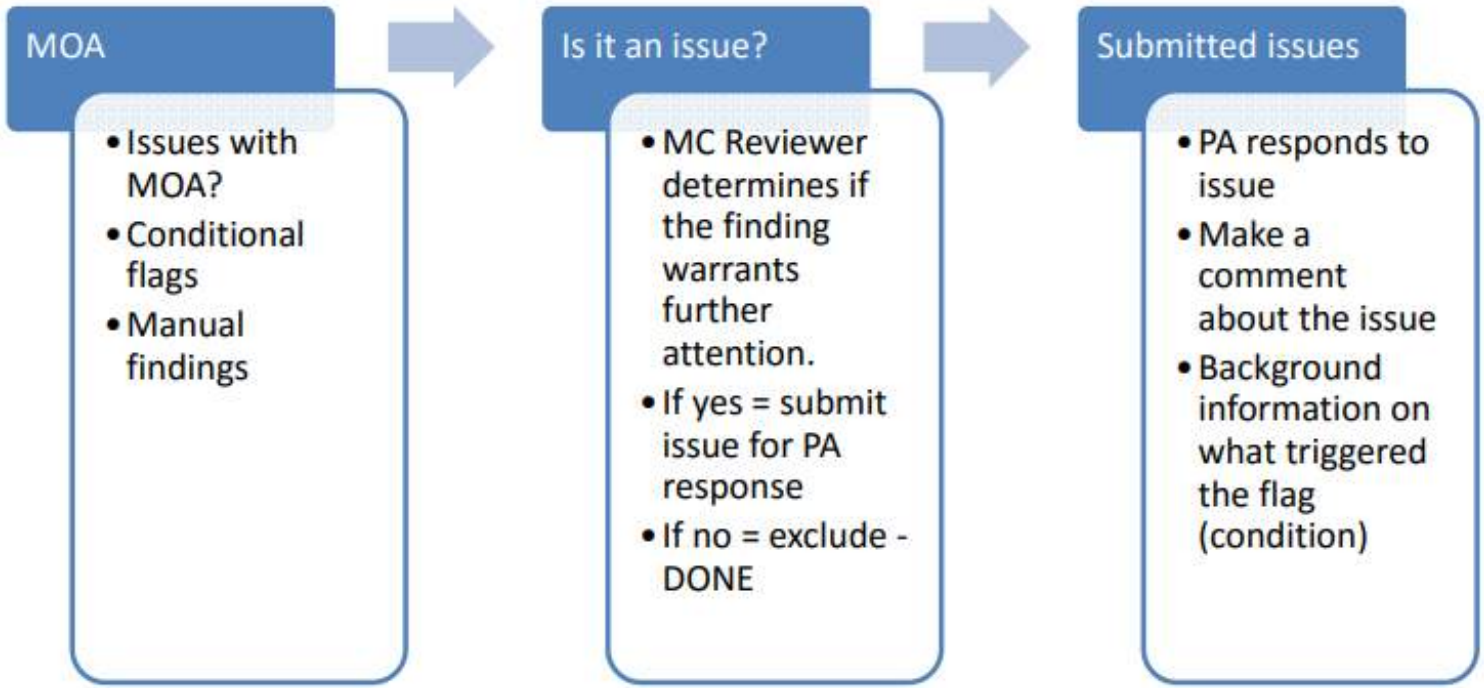
1	APL Project Tracking Summary as of 04-19-2023 for 435643-1-52-01.pdf	4/19/2023	View Document
2	APL Project Tracking Summary as of 04-19-2023 for 435844-1-52-01.pdf	4/19/2023	View Document
3	APL Project Tracking Summary as of 04-19-2023 for 435844-4-52-01.pdf	4/19/2023	View Document
4	Preliminary Review Checklist.docx	4/19/2023	View Document

  - Automatic or Manual Findings
    - Exceptions
      - Material Acceptance
      - Minimum Frequency
      - Qualifications

Material Certification

Material Certification Review in MAC

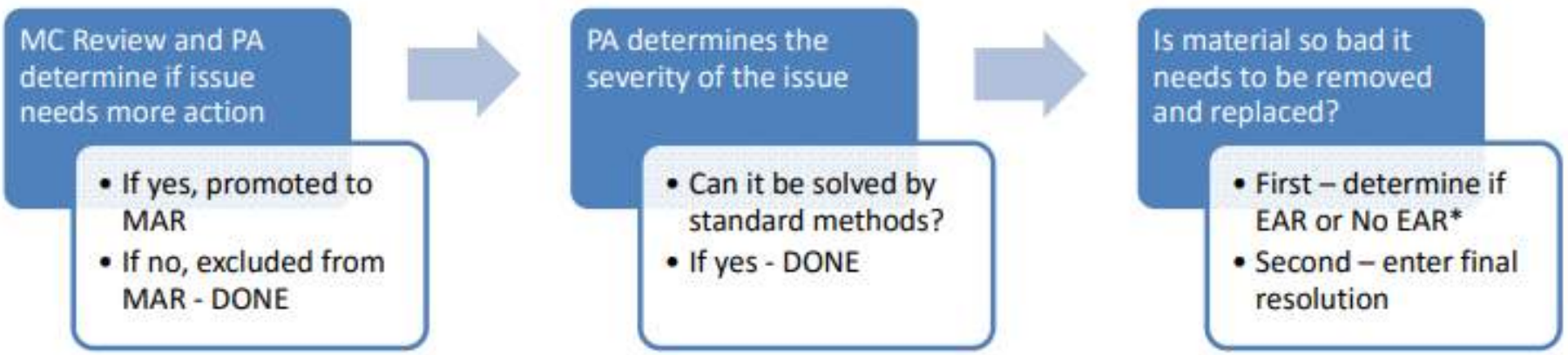
- Responding to Findings

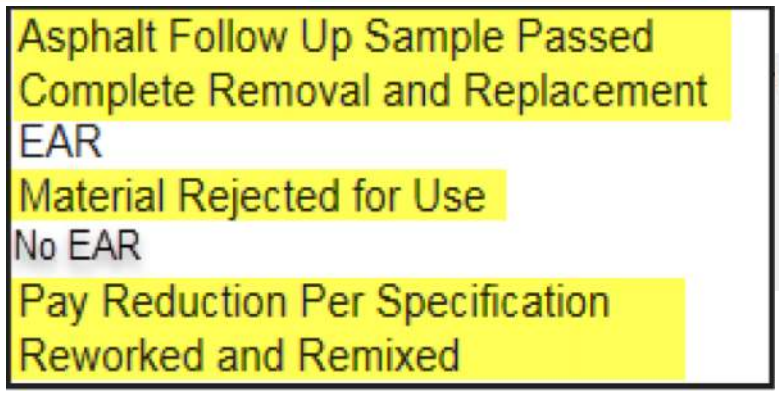


Material Certification

Material Certification Review in MAC

- Initiating MAR





Material Certification

- **Build America, Buy America Act (BABA)**
  - Made in America Office and the Federal Highway Administration
  - Started with November 10, 2022, Lettings through Present
  - Requirement for all projects receiving Federal Funding
  - Tracked in the MAC System
  - BABA product types added to the APL
    - Labeled Eligible or Not Eligible

Material Certification

APL & BABA Project Tracking Summary

Generated on: 4/19/2023 10:00:29 AM

Project: 435844-1-52-01 **Let Date: 2/22/2023**

415 - Reinforcing for Concrete

Spec: Supplemental Specification, 07/2016, v1.3

Categories:

- APL & BABA Tracking / Mechanical Rebar Splice
- APL & BABA Tracking / Plastic Chair and Bolster

530 - Revetment Systems

Spec: Supplemental Specification, 01/2016, v1.1

Categories:

- APL & BABA Tracking / ACB (Closed Cell)
- APL & BABA Tracking / ACB (Open Cell)
- APL & BABA Tracking / Prepackaged Sand-Cement Bags

536 - Guardrail

Spec: Supplemental Specification, 01/2009, v1.3

Categories:

- APL & BABA Tracking / Approach Terminal 31" TL-2 (End Anchorage Assembly) NCHRP 350
- APL & BABA Tracking / Approach Terminal 31" TL-2, MASH
- APL & BABA Tracking / Approach Terminal 31" TL-3 (End Anchorage Assembly) NCHRP 350
- APL & BABA Tracking / Approach Terminal 31" TL-3, MASH
- APL & BABA Tracking / Barrier Delineator - Guardrails
- APL & BABA Tracking / Composite Offset Block
- APL & BABA Tracking / End Anchorage Assembly 27" (Approach Terminal) NCHRP 350

- **Model Number:**
- **APL Number:** 415-001-017
- **Specification:** Reinforcing for Concrete
- **Product Type:** Mechanical Rebar Splice
- **BABA Eligible:** Eligible
- **Comment:** #4 - #11

- **Model Number:** MSKT MASH Sequential Kinking Terminal
- **APL Number:** 536-006-003
- **Specification:** Guardrail
- **Product Type:** Approach Terminal 31" TL-3, MASH
- **BABA Eligible:** Eligible
- **Comment:** Parallel - Gating/Redirective

Final Estimate Process

Taylor Byrd, P.E.
Florida Department of Transportation
District 2 Jacksonville Construction Engineer

Final Estimate Process

- **Final Offer of Payment/Request for Refund**
  - Project team has completed the review process and produces the final estimate
    - Final Accounting of how everything is paid
      - Correct quantities, adjustments, degree of accuracy (BOE Ch. 2), etc.
  - Within 30 days after Final Acceptance – Project team submits one of the below per FIN.

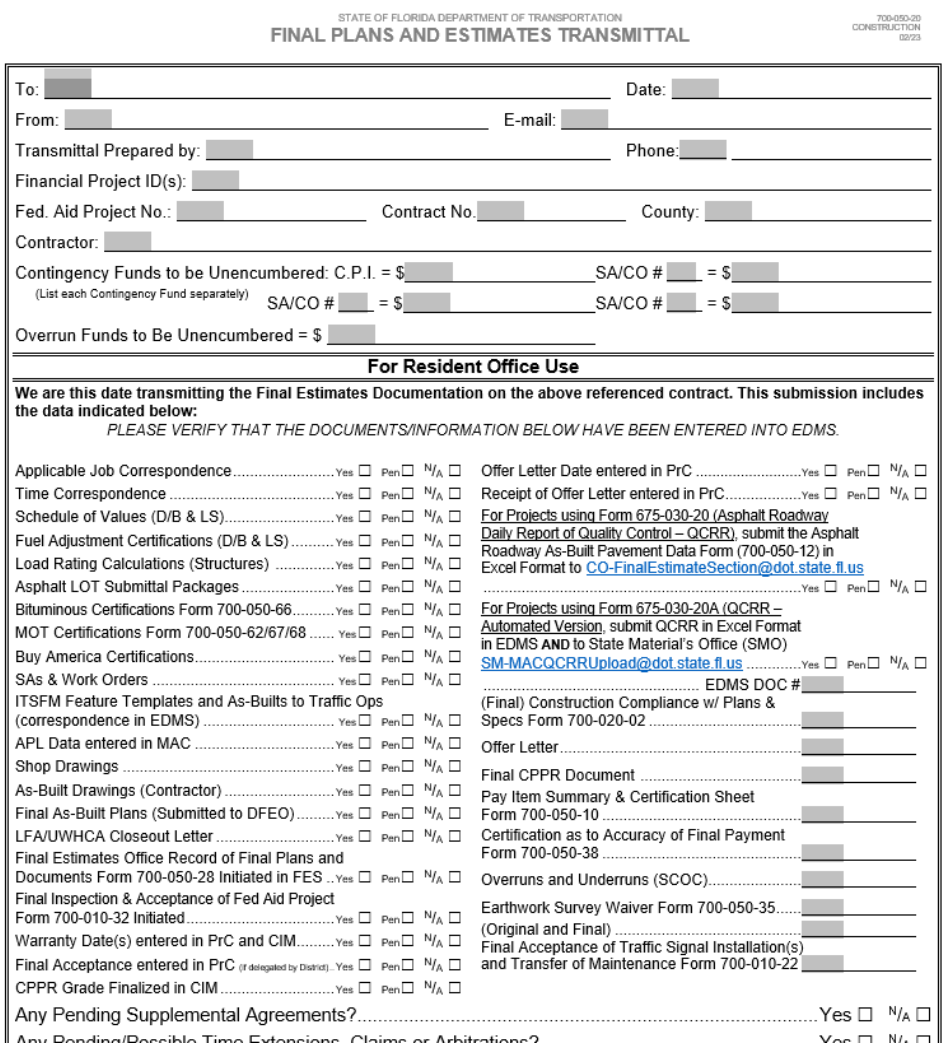
The ***Offer of Final Payment*** letter is issued when the Contractor is offered a positive, preferably zero, final payment amount due.

The ***Request for Refund*** letter is issued when the Contractor has been overpaid and is offered a negative amount due. The letter will request the Contractor to write the Department a check in the amount overpaid.

  - Preference: Zero-dollar final estimate.
    - Progress (time to pass through the system, 2-3 days) and then $0.00 offer of final payment. Why -> to avoid interest payments (45 days from last document received)

Final Estimate Process

- **Final Estimate Documents**
  - Within 30 days of Final Acceptance all final estimate documents must be submitted to the District Final Estimate Office (CPAM 5.11.8)
  - Final Plans and Estimates Transmittal (Form 700-050-20)



STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION

FINAL PLANS AND ESTIMATES TRANSMITTAL

700-050-20
CONSTRUCTION
02/23

To: Date:

From: E-mail:

Transmittal Prepared by: Phone:

Financial Project ID(s):

Fed. Aid Project No.: Contract No. County:

Contractor:

Contingency Funds to be Unencumbered: C.P.I. = $ SA/CO # = $

(List each Contingency Fund separately) SA/CO # = $ SA/CO # = $

Overrun Funds to Be Unencumbered = $

For Resident Office Use

We are this date transmitting the Final Estimates Documentation on the above referenced contract. This submission includes the data indicated below:

PLEASE VERIFY THAT THE DOCUMENTS/INFORMATION BELOW HAVE BEEN ENTERED INTO EDMS.

Applicable Job Correspondence ..... Yes ☐ Pen ☐ N/A ☐
Time Correspondence ..... Yes ☐ Pen ☐ N/A ☐
Schedule of Values (D/B & LS) ..... Yes ☐ Pen ☐ N/A ☐
Fuel Adjustment Certifications (D/B & LS) ..... Yes ☐ Pen ☐ N/A ☐
Load Rating Calculations (Structures) ..... Yes ☐ Pen ☐ N/A ☐
Asphalt LOT Submittal Packages ..... Yes ☐ Pen ☐ N/A ☐
Bituminous Certifications Form 700-050-66 ..... Yes ☐ Pen ☐ N/A ☐
MOT Certifications Form 700-050-62/67/68 ..... Yes ☐ Pen ☐ N/A ☐
Buy America Certifications ..... Yes ☐ Pen ☐ N/A ☐
SAs & Work Orders ..... Yes ☐ Pen ☐ N/A ☐
ITSFM Feature Templates and As-Builts to Traffic Ops (correspondence in EDMS) ..... Yes ☐ Pen ☐ N/A ☐
APL Data entered in MAC ..... Yes ☐ Pen ☐ N/A ☐
Shop Drawings ..... Yes ☐ Pen ☐ N/A ☐
As-Built Drawings (Contractor) ..... Yes ☐ Pen ☐ N/A ☐
Final As-Built Plans (Submitted to DFEO) ..... Yes ☐ Pen ☐ N/A ☐
LFA/UWHCA Closeout Letter ..... Yes ☐ Pen ☐ N/A ☐
Final Estimates Office Record of Final Plans and Documents Form 700-050-28 Initiated in FES .. Yes ☐ Pen ☐ N/A ☐
Final Inspection & Acceptance of Fed Aid Project Form 700-010-32 Initiated ..... Yes ☐ Pen ☐ N/A ☐
Warranty Date(s) entered in PrC and CIM ..... Yes ☐ Pen ☐ N/A ☐
Final Acceptance entered in PrC (if delegated by District) .. Yes ☐ Pen ☐ N/A ☐
CPPR Grade Finalized in CIM ..... Yes ☐ Pen ☐ N/A ☐

Offer Letter Date entered in PrC ..... Yes ☐ Pen ☐ N/A ☐
Receipt of Offer Letter entered in PrC ..... Yes ☐ Pen ☐ N/A ☐
For Projects using Form 675-030-20 (Asphalt Roadway Daily Report of Quality Control – QCRR), submit the Asphalt Roadway As-Built Pavement Data Form (700-050-12) in Excel Format to CO-FinalEstimateSection@dot.state.fl.us ..... Yes ☐ Pen ☐ N/A ☐
For Projects using Form 675-030-20A (QCRR – Automated Version, submit QCRR in Excel Format in EDMS **AND** to State Material's Office (SMO) SM-MACQCRRUpload@dot.state.fl.us ..... Yes ☐ Pen ☐ N/A ☐
EDMS DOC #
(Final) Construction Compliance w/ Plans & Specs Form 700-020-02
Offer Letter
Final CPPR Document
Pay Item Summary & Certification Sheet Form 700-050-10
Certification as to Accuracy of Final Payment Form 700-050-38
Overruns and Underruns (SCOC)
Earthwork Survey Waiver Form 700-050-35 (Original and Final)
Final Acceptance of Traffic Signal Installation(s) and Transfer of Maintenance Form 700-010-22

Any Pending Supplemental Agreements? ..... Yes ☐ N/A ☐

Any Pending/Possible Time Extensions, Claims or Arbitrations? Yes ☐ N/A ☐

Final Estimate Process

Applicable Job Correspondence ..... Yes ☐ Pen ☐ N/A ☐
Time Correspondence ..... Yes ☐ Pen ☐ N/A ☐
Schedule of Values (D/B & LS) ..... Yes ☐ Pen ☐ N/A ☐
Fuel Adjustment Certifications (D/B & LS) ..... Yes ☐ Pen ☐ N/A ☐
Load Rating Calculations (Structures) ..... Yes ☐ Pen ☐ N/A ☐
Asphalt LOT Submittal Packages ..... Yes ☐ Pen ☐ N/A ☐
Bituminous Certifications Form 700-050-66 ..... Yes ☐ Pen ☐ N/A ☐
MOT Certifications Form 700-050-62/67/68 ..... Yes ☐ Pen ☐ N/A ☐
Buy America Certifications ..... Yes ☐ Pen ☐ N/A ☐
SAs & Work Orders ..... Yes ☐ Pen ☐ N/A ☐
ITSFM Feature Templates and As-Builts to Traffic Ops (correspondence in EDMS) ..... Yes ☐ Pen ☐ N/A ☐
APL Data entered in MAC ..... Yes ☐ Pen ☐ N/A ☐
Shop Drawings ..... Yes ☐ Pen ☐ N/A ☐
As-Built Drawings (Contractor) ..... Yes ☐ Pen ☐ N/A ☐
Final As-Built Plans (Submitted to DFEO) ..... Yes ☐ Pen ☐ N/A ☐
LFA/UWHCA Closeout Letter ..... Yes ☐ Pen ☐ N/A ☐
Final Estimates Office Record of Final Plans and Documents Form 700-050-28 Initiated in FES .. Yes ☐ Pen ☐ N/A ☐
Final Inspection & Acceptance of Fed Aid Project Form 700-010-32 Initiated ..... Yes ☐ Pen ☐ N/A ☐
Warranty Date(s) entered in PrC and CIM ..... Yes ☐ Pen ☐ N/A ☐
Final Acceptance entered in PrC (if delegated by District) .. Yes ☐ Pen ☐ N/A ☐
CPPR Grade Finalized in CIM ..... Yes ☐ Pen ☐ N/A ☐

Offer Letter Date entered in PrC ..... Yes ☐ Pen ☐ N/A ☐
Receipt of Offer Letter entered in PrC ..... Yes ☐ Pen ☐ N/A ☐

For Projects using Form 675-030-20 (Asphalt Roadway Daily Report of Quality Control – QCRR), submit the Asphalt Roadway As-Built Pavement Data Form (700-050-12) in Excel Format to CO-FinalEstimateSection@dot.state.fl.us ..... Yes ☐ Pen ☐ N/A ☐

For Projects using Form 675-030-20A (QCRR – Automated Version, submit QCRR in Excel Format in EDMS **AND** to State Material's Office (SMO) SM-MACQCRRUpload@dot.state.fl.us ..... Yes ☐ Pen ☐ N/A ☐

..... EDMS DOC # _____

(Final) Construction Compliance w/ Plans & Specs Form 700-020-02 ..... _____

Offer Letter ..... _____

Final CPPR Document ..... _____

Pay Item Summary & Certification Sheet Form 700-050-10 ..... _____

Certification as to Accuracy of Final Payment Form 700-050-38 ..... _____

Overruns and Underruns (SCOC) ..... _____

Earthwork Survey Waiver Form 700-050-35 ..... _____

(Original and Final) ..... _____

Final Acceptance of Traffic Signal Installation(s) and Transfer of Maintenance Form 700-010-22 _____

Final Estimate Process

Pay Item Summary and Certification Sheet (Form 700-050-10).

- Required to be completed for each job and includes references to EDMS document numbers or Plan Sheet pages.

STATE OF FLORIDA DEPTARTMENT OF TRANSPORTATION
PAY ITEM SUMMARY AND CERTIFICATION SHEET

A #	Item Description	EDMS Doc /Page #	Unit Price	Item Paid Amount
	REMOVAL OF EXISTING CONCRETE	EDMS# 1471926	$44.0000	$35,904.00
	CONCRETE SIDEWALK AND DRIVEWAYS, 4" THICK	EDMS# 1472699	$60.0000	$47,580.00
	CONCRETE SIDEWALK AND DRIVEWAYS, 6" THICK		$90.0000	$7,020.00
	CONDUIT, FURNISH & INSTALL, OPEN TRENCH	EDMS# 1471857	$19.5000	$11,524.50
	CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE	EDMS# 1471858	$18.6000	$456,602.10
	CONDUIT, FURNISH & INSTALL, ABOVEGROUND	EDMS# 1471861	$36.0000	$2,304.00
	CONDUIT, FURNISH & INSTALL, BRIDGE MOUNT	EDMS# 1471859	$23.0000	$6,486.00
	CONDUIT, REMOVE, BRIDGE MOUNT	EDMS# 1471860	$11.5000	$1,840.00
	FIBER OPTIC CABLE, F&I, UNDERGROUND,2-12 FIBERS	EDMS# 1471927	$2.4000	$14,640.00

DFEO USE ONLY
Per Reviews

Signature:_____
Date:_____

Project Administrator Signed:_____
Printed:_____

Certification Statement

I certify, based on my personal knowledge and well-founded belief, the quantities are accurate and conform to the contract plan dimensions a
specification tolerances, manuals and that this final estimate, as submitted is true and correct.

Title: CSS Signature:_____ Date:_____
And/Or
Title: QA Reviewer Signature:_____ Date:_____

Resident Engineer Signed:_____
Printed:_____

Final Estimate Process

- **Construction Office is still involved until project is passed and paid by Final Estimates**
  - Contractor Required Payment
    - Acceptance or Qualified Acceptance

This will acknowledge receipt of your letter dated DATE, and Estimate Number [#].

☐ **OPTION 1**

We have examined this Estimate in detail and found it to be a correct statement of our account.

We hereby agree to accept payment of balance due in the amount of $ AMOUNT for full settlement of our account under this contract covering construction and of all claims in connection therewith.

☐ **OPTION 2**

We have examined this estimate in detail and do not agree that the amount is correct. Our position is that the balance due us is $ AMOUNT, which includes an additional amount of $ AMOUNT. This amount is reflected in the breakdown listed below: *(Note: If further space is needed, please attach additional sheets with breakdown and provide a complete explanation.)*

Financial Project ID #	Pay Item #	$	Amount

Rule 14-24.001 F.A.C.
Rule 14-79.006 F.A.C.

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION

CONTRACTOR'S AFFIDAVIT AND SURETY CONSENT
(FORM 21-A)

700-050-21
CONSTRUCTION
12/2009
Page 1 of 2

STATE OF FLORIDA
COUNTY OF _____
Before me, the undersigned Notary Public, personally appeared _____
to me well known or who has produced _____ as identification,
(Type of Identification)
who being first duly sworn, deposes and says that he/she is: _____
(Title of duly authorized person)
of _____ a _____,
(Contracting entity) (Type of entity)
the Contractor on Financial Project I.D. _____, Road No. _____ in
_____ County, Florida under Contract No. _____
with the State of Florida Department of Transportation dated the _____ day of _____, _____;
and that the Affiant based on his/her personal knowledge says that:

1. Said contract has been complied with in every particular by the Contractor and that all parts of the work have been approved by the District Director of Operations of the State of Florida Department of Transportation.

2. The Contractor has not offered or made any gift or gratuity to, or made any financial transaction of any nature with, any employee of the Department in connection with obtaining or performing said contract.

3. All amounts payable for labor, materials, or otherwise, in connection with said contract and work have been paid except for normal sub-contract retainages, which will be satisfied within 30 days after payment and/or release of retainage withheld under said contract.

4. There are no claims or suits pending against said Contractor or anyone in connection with the work done, materials furnished or otherwise, under said contract except as listed below. As to any such exception listed below, the Contractor has stated the name of the entity making the claim, the name of the entity against whom the claim is being made, and demonstrated below good cause as required by Section 337.11(11), Florida Statutes.

Claiming Entity | Claim Agent | Nature of claim | Good cause explanation

  - Form 21-A (Form 700-050-21)

- **Contractor has 90 days to return paperwork from the offer letter.**

Final Estimate Process – Helpful Resources

District 2 Final Estimates Contacts

D2.CONFE@dot.state.fl.us

Final Estimates Contacts

Susan E. Wilson
D2 Final Estimates Manager
Phone: 904-360-5412

Thomas Mason
Final Estimates Specialist
Phone: 904-360-5413

Heather Herin
Final Estimates Specialist
Phone: 904-360-5558

Alysia Shelton
Final Estimates Specialist
Phone: 904-360-5512

Final Estimates Forms

- https://www.fdot.gov/construction/finalestimates/fedocs.shtm

DFEO Forms

- 700-050-10 Item Computation Book Pay Summary & Ce
- 700-050-20 Final Plans & Estimates Transmittal
- 700-050-21 Form 21- A Surety Release[1]
- 700-050-22 Form 21- A (Modified) Surety Takeover[1]
- 700-050-26 Final Interest Payment Log[1] or generate in t
- 700-050-28 Estimates Office Record of Final Plans and D
- 700-050-35 Earthwork Survey/Cross Section Waiver[1]
- 700-050-36 Final Estimates Field Review Form[1]
- 700-050-37 CRS Contract Estimate Transmittal—Action
- 700-050-38 Certification as to Accuracy of Final Estimat

Site Source Records

- 700-050-53 Final Measurements
- 700-050-54 Daily Report of Truck - Measured Material S
- 700-050-54A Truck Measured Sketch (Regular Bed)
- 700-050-54B Truck Measured Sketch (Irregular Shape B

As-Built Plans Preparation

Kenny Geisendorff, P.E.
VIA Consulting Services, Inc.
Senior Project Engineer

Final As-Built Plans – CPAM 5.12

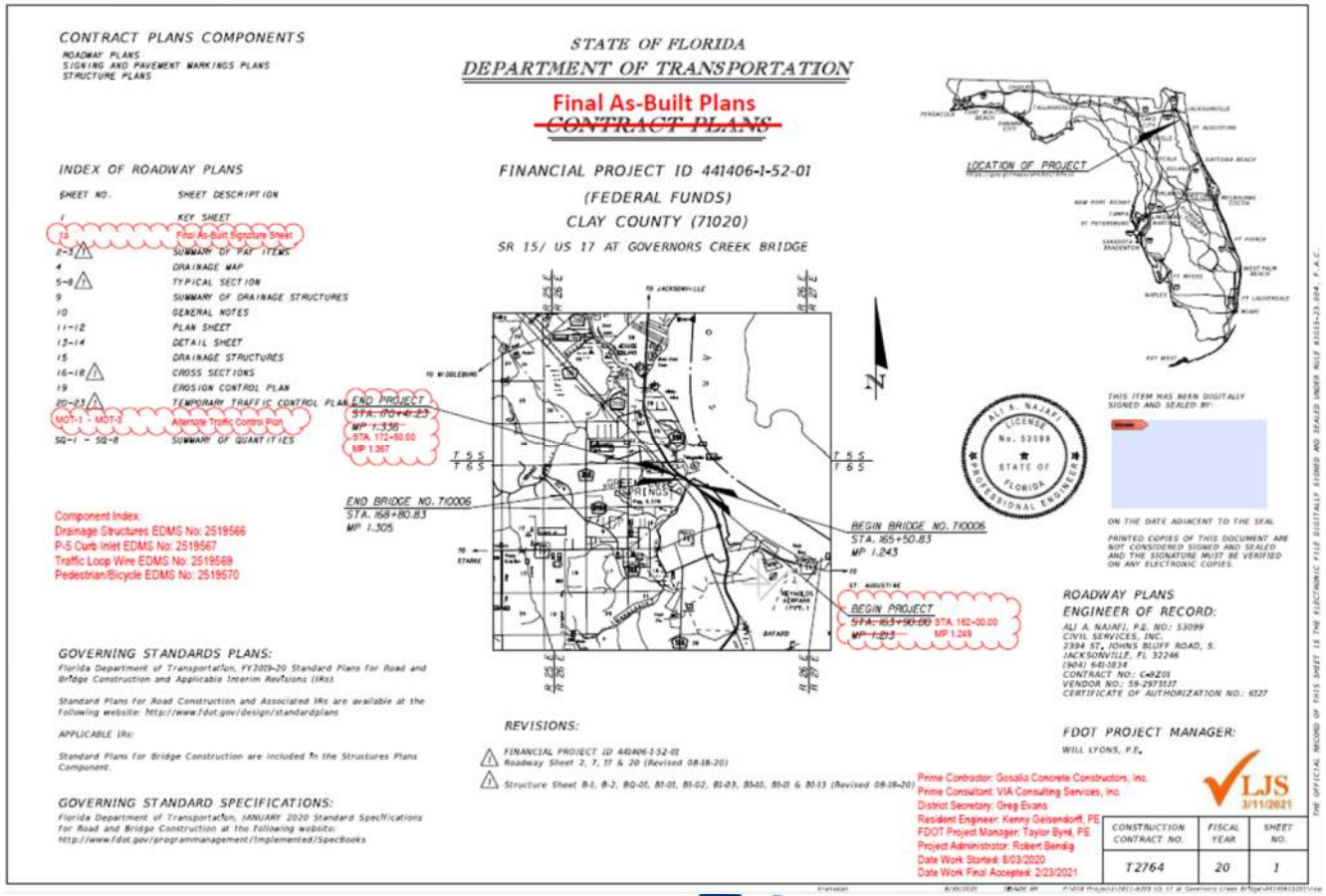
- **As-Builts shall include all revisions provided by the EOR and changes made by Construction that indicate precisely how the project was constructed.**

- **Extracted into different components and uploaded into the Department's collaboration site (PSSP).**

- **Revisions from the EOR shall be included.**
  - It should be noted that the EORs Digital signature will be broken when CEI compiles the package, however, the signed and sealed version is retained in the Design electronic submission site.

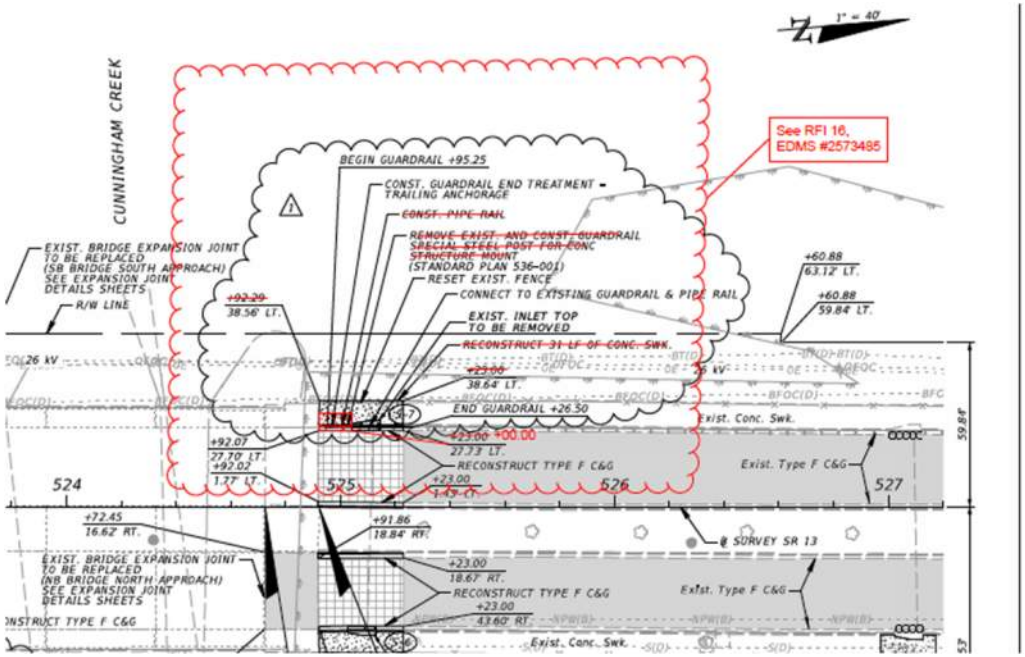
Final As-Built Plans – CPAM 5.12

- **CEI will modify Key Sheet to denote:**
  - "Final As-Builts Plan" designation along with Contractor, Consultant and District info, relevant Dates and Component index and relevant EDMS documents.



Final As-Built Plans – CPAM 5.12

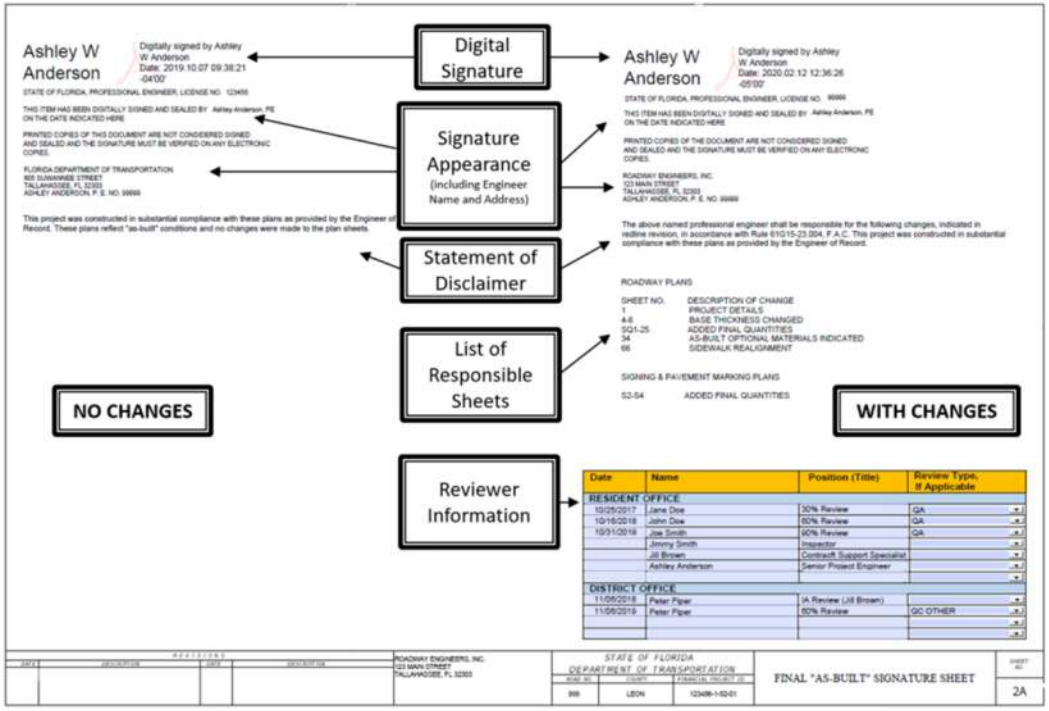
- **All changes documented by CEI shall be shown in red and clouded.**
  - Once project is completed the document is flattened and the responsible PE shall certify changes.
  - Digitally certifying allows the District Final Estimates office to apply markups in the Post Audit Review.



FDOT

Final As-Built Plans – CPAM 5.12

- **Responsible PE will sign and seal the Final As-Built Signature Sheet(s)**
  - No changes - PE will sign with a statement indicating that the project was constructed in substantial compliance with the plans.
  - If changes were made – PE will sign with a list of changes they are responsible for shall be listed with appropriate statement as required by CPAM.



Final As-Built Plans – CPAM 5.12

- **Examples of Plan Sheet changes to be documented per CPAM 5.12.8.**

Changes to the horizontal and vertical alignments as shown on the original Contract Plans

Stations or equations that have been introduced or revised during construction

Intersection and crossover details that have been modified or relocated

Plan lengths changed to reflect the actual construction length when an authorized field change is made or a plan error is noted

Changes in flow line elevations shall be shown on the ***Plan Profile Sheets***

Changes in stations or offset dimensions

Changes in size of structures

Added/Deleted structures

Type of pipe material and thickness used at each structure shall be shown on the ***Drainage Structures Sheets*** and the ***Optional Materials***

Inlets, manholes, box culverts, and end walls that were added, relocated, revised, or deleted

All sidewalk that was modified in thickness or otherwise, and all curb and gutter, and shoulder gutter that was added, revised, or deleted

All driveways that were not shown on the original Contract Plans, or were shown but are no longer in existence, or were modified in thickness or otherwise

All ditch locations and grades that were adjusted during construction

Changes in fencing items, including gate location

Sign locations changed and pavement markings that were modified

All signal details that changed during construction

All Bridge, Approach Slab, and Lighting details that are different from the actual construction

Benchmarks (BM) and their descriptions that were set during construction shall be added to the profile portion of the ***Plan Sheets***

All Utility relocates and/or conflicts shall be reflected on the ***Utility Adiustment Sheets***

Final As-Built Plans – CPAM 5.12

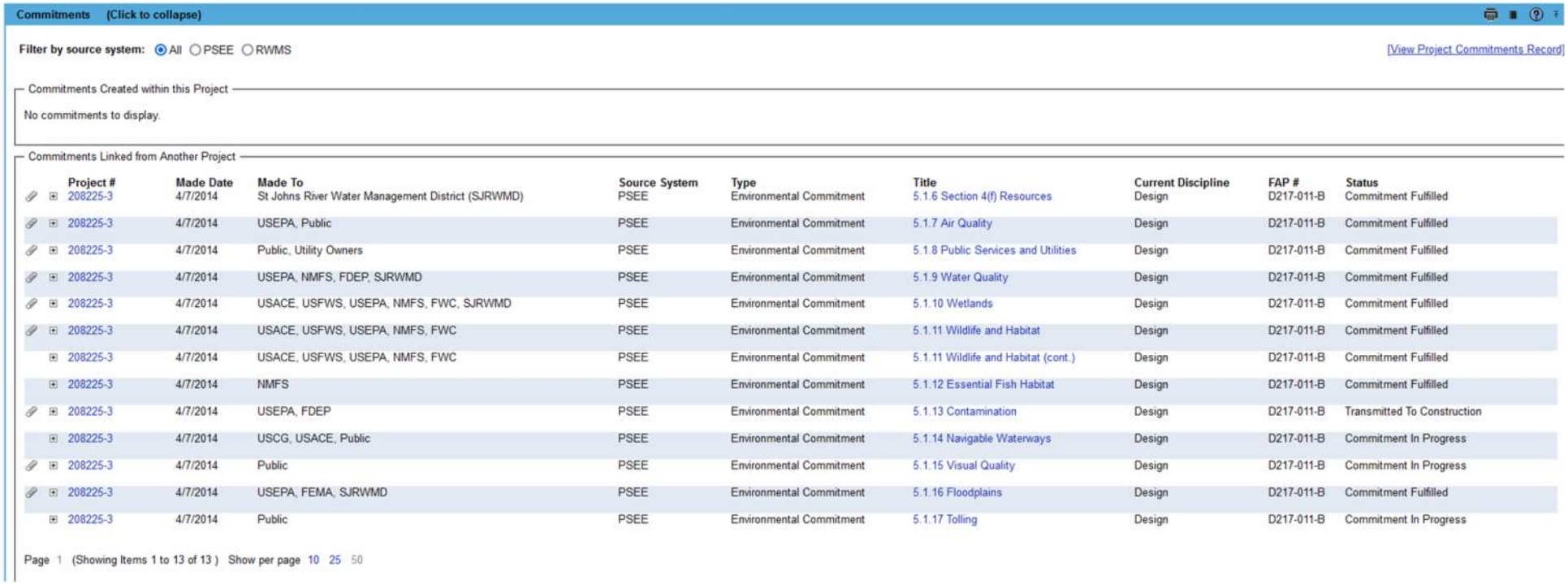
- **As-Built Bridge Plans**
  - Final plans should reference Electronic Document Management System (EDMS) for As-built load ratings, Drilled Shaft Inspection Reports, Pile Driving Logs, Crack Maps, Shop Drawings, and RFCs.
- **Design-Build Final As-Built Plans**
  - Design Build team shall submit as-builts as part of project closeout per RFP.
- **As-Built Data Collection**
  - Final Asphalt Quality Control Roadway Report (QCRR)
    - Project Administrator (PA) to submit to State Materials Office.
  - Intelligent Transportation System Facility Management (ITSFM)
    - PA will submit the Feature Import Templates to the District Traffic Operations with the As-Built Plans for entry into the Department's ITSFM system.
  - Approved Product List (APL)
    - PA is responsible for ensuring all APL data is entered into the Materials Acceptance and Certification (MAC) System.

Close Out of Commitments and Permits

Kenny Geisendorff, P.E.
VIA Consulting Services, Inc.
Senior Project Engineer

Project Commitments Close Out

- **All commitments should be reviewed and closed out by CEI & EOR.**
  - Project Commitments can be found in PSEE.
  - Comments and/or backup should be sent to the Design Project Manager for input into PSEE to document how commitment was satisfied.



Commitments (Click to collapse)

Filter by source system: (•) All ( ) PSEE ( ) RWMS [View Project Commitments Record]

Commitments Created within this Project

No commitments to display.

Commitments Linked from Another Project

Project #	Made Date	Made To	Source System	Type	Title	Current Discipline	FAP #	Status
208225-3	4/7/2014	St Johns River Water Management District (SJRWMD)	PSEE	Environmental Commitment	5.1.6 Section 4(f) Resources	Design	D217-011-B	Commitment Fulfilled
208225-3	4/7/2014	USEPA, Public	PSEE	Environmental Commitment	5.1.7 Air Quality	Design	D217-011-B	Commitment Fulfilled
208225-3	4/7/2014	Public, Utility Owners	PSEE	Environmental Commitment	5.1.8 Public Services and Utilities	Design	D217-011-B	Commitment Fulfilled
208225-3	4/7/2014	USEPA, NMFS, FDEP, SJRWMD	PSEE	Environmental Commitment	5.1.9 Water Quality	Design	D217-011-B	Commitment Fulfilled
208225-3	4/7/2014	USACE, USFWS, USEPA, NMFS, FWC, SJRWMD	PSEE	Environmental Commitment	5.1.10 Wetlands	Design	D217-011-B	Commitment Fulfilled
208225-3	4/7/2014	USACE, USFWS, USEPA, NMFS, FWC	PSEE	Environmental Commitment	5.1.11 Wildlife and Habitat	Design	D217-011-B	Commitment Fulfilled
208225-3	4/7/2014	USACE, USFWS, USEPA, NMFS, FWC	PSEE	Environmental Commitment	5.1.11 Wildlife and Habitat (cont.)	Design	D217-011-B	Commitment Fulfilled
208225-3	4/7/2014	NMFS	PSEE	Environmental Commitment	5.1.12 Essential Fish Habitat	Design	D217-011-B	Commitment Fulfilled
208225-3	4/7/2014	USEPA, FDEP	PSEE	Environmental Commitment	5.1.13 Contamination	Design	D217-011-B	Transmitted To Construction
208225-3	4/7/2014	USCG, USACE, Public	PSEE	Environmental Commitment	5.1.14 Navigable Waterways	Design	D217-011-B	Commitment In Progress
208225-3	4/7/2014	Public	PSEE	Environmental Commitment	5.1.15 Visual Quality	Design	D217-011-B	Commitment In Progress
208225-3	4/7/2014	USEPA, FEMA, SJRWMD	PSEE	Environmental Commitment	5.1.16 Floodplains	Design	D217-011-B	Commitment Fulfilled
208225-3	4/7/2014	Public	PSEE	Environmental Commitment	5.1.17 Tolling	Design	D217-011-B	Commitment In Progress

Page 1 (Showing Items 1 to 13 of 13) Show per page 10 25 50

Project Commitments Close Out

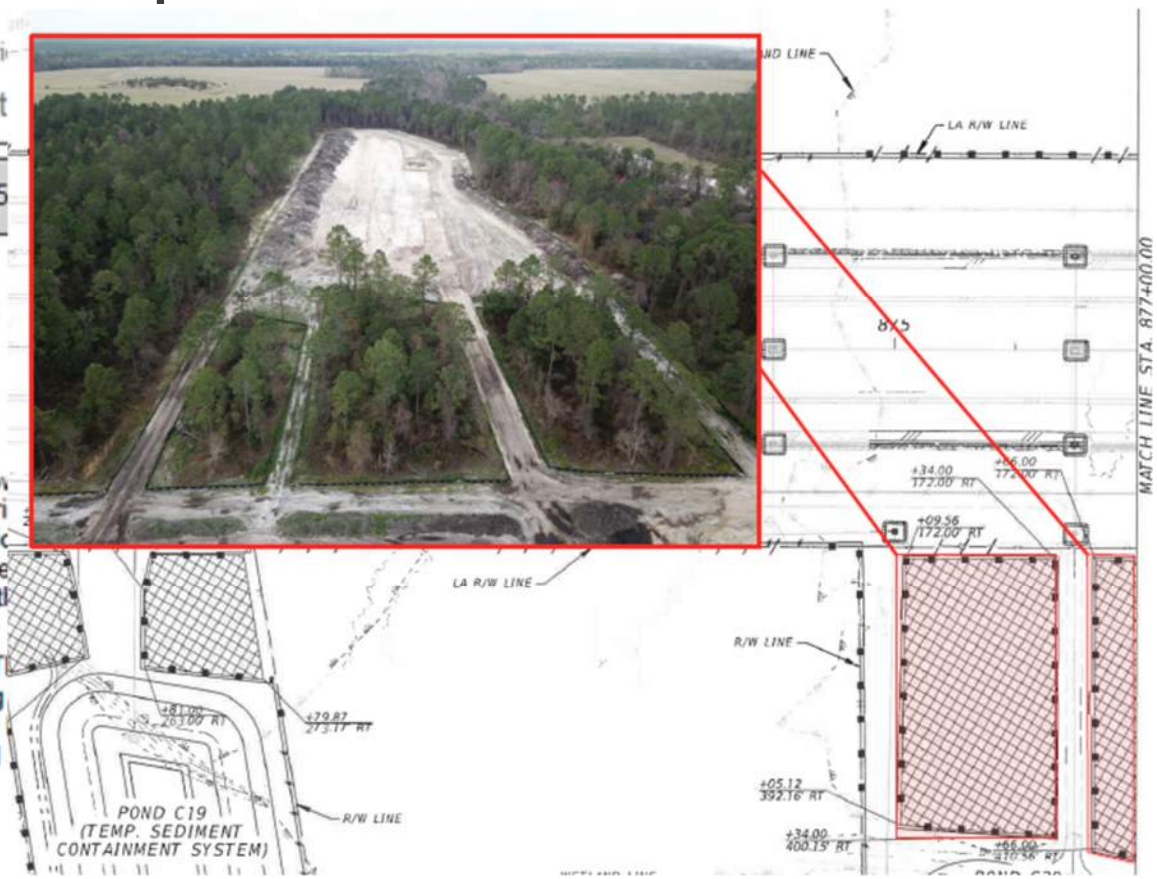
- Status and implementation discipline is shown on each commitment.

State of Flori

PSEE

Project

FM #: 208225-3	Commitment Title: 5.1.15
Commitment Made To:	Public
Status:	Commitment In Progress
Implementation Discipline:	Construction
Transmittal Date:	8/17/2017
Commitment Description:	FDOT will employ the follo •Selective Clearing - Clear •Landscaping - Incorporatic roadside vegetation or scre •Screening - Screening wit concrete walls
Comments/Notes: *(Most Recent Comment Shown)*	3/30/2020 11:17:30 AM - T Bullet 1 •Selective clearing Bullet 2 • Landscaping will program development and Bullet 3 • Same as above



- Backup should be provided when applicable to show commitment was satisfied.

Project Permit Close Out

- **Several permits can be issued depending on project elements.**
  - FDEP
  - Water Management District
  - US Army Corps (USACE)
  - US Coast Guard (USCG)
  - USFWS/FWC
- **Check your project's environmental permits for close-out and post-construction requirements.**
- **Discuss closeout with District Construction Environmental Contact as some permits cover multiple projects.**

Project Permit Close Out

- **Examples:**
  - US Army Corps

10. **As-Builts:** Within 60 days of completion of the authorized work or at the expiration of the construction window of this permit, whichever occurs first, the Permittee shall submit as-built drawings of the authorized work and a completed As-Built Certification Form (Attachment 3) to the Corps. The drawings shall be signed and sealed by a registered professional engineer and include the following:

a. A plan view drawing of the location of the authorized work footprint (as shown on the permit drawings) with an overlay of the work as constructed in the same scale as the attached permit drawings (8½-inch by 11-inch). The drawing should show all "earth disturbance," including wetland impacts, water management structures, and any on-site mitigation areas.

b. List any deviations between the work authorized by this permit and the work as constructed. In the event that the completed work deviates, in any manner, from the authorized work, describe on the As-Built Certification Form the deviations between the work authorized by this permit and the work as constructed. Clearly indicate on the as-built drawings any deviations that have been listed. Please note that the depiction and/or description of any deviations on the drawings and/or As-Built Certification Form does not constitute approval of any deviations by the U.S. Army Corps of Engineers.

c. The Department of the Army Permit number.

  - WMD

Within 30 days after completing construction of the entire project, or any independent portion of the project, the permittee shall provide the following to the Agency, as applicable:

b. For all other activities — "As-Built Certification and Request for Conversion to Operation Phase" [Form 62-330.310(1)].

  - US Fish and Wildlife

POST CONSTRUCTION ACTIVITIES

Whether or not eastern indigo snakes are observed during construction activities, a monitoring report should be submitted to the appropriate USFWS Field Office within 60 days of project completion. The report can be sent electronically to the appropriate USFWS e-mail address listed on page one of this Plan.

Post Audit Review (PAR)

Joaquin Olivella, P.E.
Florida Department of Transportation
District 2 Gainesville Construction Engineer

Post Audit Review

- Issued by the District Final Estimates Office
- Findings report distributed to District Construction Engineer, Resident Engineer, and Project Administrator
- The Senior Project Engineer and Project Administrator must respond
- Avoid errors on future projects
- Contractor will be sent a Notification of Findings

Post Audit Review

FLORIDA DEPARTMENT OF TRANSPORTATION

RON DeSANTIS
GOVERNOR

1109 South Marion Avenue
Lake City, FL 32025

JARED W. PERDUE, P.E.
SECRETARY

POST AUDIT REVIEW FOR A CERTIFIED FINAL ESTIMATES

Per the Review & Administration Manual, Topic 700-050-005; Chapter 3: If errors or omissions are listed, the Consultant / In - house will submit a formal report within FOURTEEN(14) calendar days defining what steps will be taken to eliminate these types of issues from recurring on future projects.

This report will be sent to:

State Final Estimates Office: CO-FinalEstimateSection@dot.state.fl.us

Scott Lent, District Construction Engineer: Scott.Lent@dot.state.fl.us

Susan Wilson, District Final Estimate Manager: Susan.Wilson@dot.state.fl.us Susan E Wilson

Lead Financial Project Id 434400-1-52-01	
Road No./Description SR 25/SR25(US441) @ SW 14TH DRIVE	
Contractor Name CHINCHOR ELECTRIC INC.	
Resident Office Gainesville Construction Office	
FDOT Resident Engineer Olivella, Joaquin	
FDOT Project Administrator Cheshire,Rusty	**CCEI Project Administrator**
FDOT Project Manager Cheshire,Rusty	
F.E. Level II Pla, Elizabeth	**Review Date** 5/18/2023
Reviewer Mason, Thomas	**Day(s) in Review** 3.00
Final Acceptance Date 4/18/2023	**Offer of Final Payment Date** 5/9/2023
Date Project Received at DFEO 5/10/2023	**Days to Submit Offer Letter** 21
Certified Amount $0.00	**Final Amount** $0.00
OVER PAYMENT	$0.00
UNDER PAYMENT	$0.00
ABSOLUTE VALUE	$0.00
NET VALUE OF ALL CHANGES	$0.00

Review Notes/Findings

Adjustment Type	Amount	Remarks
Field Records/Other Forms	$0.00	Project documentation was in good order and As Builts were up to date.

Review Notes/Findings

Adjustment Type	Amount	Remarks
Field Records/Other Forms	$0.00	Project documentation was in good order and As Builts were up to date.

PM ACADEMY

Warranty Process after Final Acceptance

Kevin Rogers
Florida Department of Transportation
District 2 Construction Services Manager

Did you know that each District has a warranty coordinator?

Justin Combs

District Two – Warranty Coordinator

Office: 386-961-7847

Cell: 904-627-6590

Justin.Combs@dot.state.fl.us

What does the Warranty Coordinator do?

- Enters all warranties for each project in the Departments database
- Tracks active warranties for the District
- Performs reviews
- Coordinates repairs for deficient areas
- Coordinates with personnel for ongoing projects, as needed, for any issues or concerns that may be related to a later warranty issue or condition.

How does the warranty process work?

- Document
- Monitor
- Coordinate
- Compliance

Where to find the warranty language in your contract?

INNOVATION

Materials: We will use materials that exceed the minimum requirements and provide enhanced durability by utilizing:

- *Pre-Cast Concrete Curved U-Girders vs. Structural Steel.*
- *RCP for the majority of the drainage pipe.*
- *CL IV or greater cast in place concrete for structural bridge components and approach slabs.*
- *Galvanized metal straps for the MSE walls to accelerate installation schedule and reduce the possibility for misaligned panels that can occur with other systems.*

Workmanship: Our team has proven experience with complex interchange construction. The SEMA crew that is currently constructing the Concrete Curved U-Girder bridges in Orlando is scheduled to transition right into this project's bridge construction taking lessons learned and fresh experience to District 2. This valuable experience yields efficiency and the ability to foresee challenges and react before they become issues.

SEMA Construction's SR417 at Boggy Creek Concrete Curved U-Girder Project (Orlando, FL 5-10-14)

Enhancements: Design & construction enhancements related to future expansion of the transportation facility can be seen throughout our design. The chart below is a brief summary:

ENHANCEMENTS FOR FUTURE DESIGN & CONST.
Construct the grading, barrier wall, and final drainage system for the future I-95 SB lanes
Ramp A1 configuration can be utilized for future I-95 SB lanes
Construct the full length of future 3rd lane along EB JTB.
Ponds designed to accommodate the ultimate interchange
Lighting designed to accommodate ultimate interchange

FHWA "Every Day Counts": Our team utilizes many of the initiatives developed by FHWA as part of this project.

- √ *3D Modeling - Horizon Staff assists central office implementing and training corridor modeler*
- √ *Accelerated Bridge Const. - Curved U-Girder Bridge*
- √ *ATC's - Our team implemented 7 approved ATC's*
- √ *Interchange Geometrics - 2 ATC's modified geometry*
- √ *Quality Environmental Docs - SEMA's environmental record*
- √ *Intelligent Construction - Our Team's MOT Scheme*

Our overall approach to this project to avoid impacts to adjacent properties, utilities, the traveling public, and the FDOT was based on the idea of a good referee. The best ones are never noticed because they never impact the outcome of the game. Our goal is to design and construct this project efficiently, cost effectively and with little impact to all.

The SEMA Team is truly excited about at this project and the opportunity to implement our innovative construction and design approaches we have developed.

VALUE ADDED

Contractor Guarantee/Value Added: The SEMA Team will perform all services consistent with our industry leading standards of care and diligence in 5-14 (contractor Guaranteed Features) and local regulatory standards. The SEMA Team warrants the following specific project components; Asphalt Concrete, Bridge Components, & Lighting. As noted in the chart, increased warranties for these are also being offered. In addition to this, we are offering additional project warranties that include, concrete structures, soundwalls, signals, roadway drainage and signage as listed.

Responsible Party/Annual Field Review: Don Bernhoft will serve as the point of contact for Warranty Coordination. His role will include administering the warranty and inspections in compliance with FDOT criteria during the warranty period. Annual inspections on all value-added features will commence one year following final acceptance. The SEMA Team will notify the FDOT at least 7 days prior to each inspection. A report of each field inspection will be distributed within 7 days of the review.

Remediation Plan: Should the field review indicate defects requiring remedial work, SEMA will develop a remedial work plan to correct the deficiency. A traffic control plan will be submitted and a maintenance permit will be obtained from the FDOT. Response time will be in accordance with the specification unless the repair item poses an immediate safety hazard. Those items will begin immediately with concurrence of the FDOT. Normal wear and tear of any material, system, equipment or component is not considered a "defect".

REQUIRED VALUE ADDED				
Project Component	Warranty Req.	Warranty SEMA	% Increase	Specs for Stds & Rem Work
Roadway Components				
Asphalt	3	5	67%	338-5
Concrete	5	6	20%	335-4
Bridge Components				
Deck Exp. Joints	5	6	20%	475-3
Coatings	5	6	20%	475-3
Bearing Devices	5	5	0%	475-3
Lighting	6	6	0%	475-3
Highway Lighting Components				
Highway Lighting	3	4	33%	725
Lamps/Ballast/Switches	2	3	50%	725
Coatings/Paintings	5	6	20%	975-4
ADDITIONAL VALUE ADDED				
Roadway Components				
Signage	1	5	400%	700 & 994
Retaining Walls	1	5	400%	548
Inlets & Pipes	1	5	400%	425, 430, 449, 942
Guardrails	1	5	400%	536
Signals	3	5	67%	550
Concrete Barrier Wall	1	3	200%	521 & 400
Concrete Structures				
Approach Slabs	1	5	400%	400
Superstucture	1	5	400%	400
Substructure	1	5	400%	400
Noise Walls	1	2	100%	400

What is covered by the warranty for each component?

- Materials
- Labor
- Incidentals (maintenance of traffic, mobilization, etc…)

Types of Warranties

ASPF | Asphalt Pavement - Sect. 337/338 (3 Year Warranty)
AVPM | Audible & Vibratory Pavement Markings - Sect. 701 (180 Day Warranty)
BBRK | Mov. Bridge Brake Components - Sect 508 (1 Year Warranty)
BDPF | Brdg Deck Exp. Joints, etc. - Sect. 475 (5 Year Warranty)
BEAR | Bearing Devices - Sect. 475 (5 Year Warranty)
BLES | Brdg Elect./Lighting Sys. - Sect 475 (5 Year Warranty)
BRCM | Mov. Brdg Comm. & Acc. System - Sect 508 (1 Year Warranty)
COAT | Coatings - Sect. 475 (5 Year Warranty)
CPPF | Concrete Pavement - Sect. 355 (5 Year Warranty)
CPSW | Cathodic Protection System Warranty (Attach Specification)
DBW | Design Build Warranty/Complete Project (Attach RFP / Specification) (5 Year Warranty)
DRAN | Brdg Drainage Sys. - Sect. 475 (5 Year Warranty)
ITS | ITS Warranty Items / Motorist Info Sys.- Spec. 781 (5 Year Warranty)
ITS | ITS Warranty Items / Video Equip. -Spec. 782 (3 Year Warranty)
ITS | ITS Warranty Items / F-O Interconnect - Spec. 783 (2 Year Warranty)

Types of Warranties

ITS | ITS Warranty Items / Manuf. Warranty - Network - Spec. 784 (2 Year Warranty)
ITS | ITS Warranty Items / Manuf. Warranty Infrastructure - Spec. 785 (3 Year Warranty)
ITS | ITS Warranty Items / Vehicle Detection - Spec. 786 (2 Year Warranty)
LAND | Landscape Installation - Sect. 580 (1 Year Warranty)
MBMB | Moveable Bridge Maint. Bond - Sect. 465 (Attach Specification)
OTHER | Other Warranty Items(Buildings/Signs, Ect..) - (Attach Specification)
PCW | Post Construction Warranty(Warranty Extension) - (Attach Agreement)
PMASP | Painted Mast Arms and Strain Poles - Spec. 649 (5 Year Warranty)
PTSM | Permanent Tape Stripes & Markings - Sect. 713 (180 Day Warranty)
RACP | Reworked Asphalt Concrete Pavement - Spec. 324 (3 Year Warranty)
TRAF | Traffic Markings - Sect. 707 (180 Day Warranty)
TSM | Traffic Stripes and Markings / Thermoplastic - Spec. 711 (180 Day Warranty)
TSM2C | Traffic Stripes & Markings; Two Components - Sect. 709 (180 Day Warranty)
TURF | Performance Turf - Section 570 (1 Year Warranty)
VAHLS | Value Added Highway Lighting System - Spec. 725 (3 Year Warranty)
VASI | Value Added Signal Install.- Sect. 645 (3 Year Warranty)

Most common Warranties

- ASPF | Asphalt Pavement - Sect. 337/338 (3 Year Warranty)
- BDPF | Brdg Deck Exp. Joints, etc. - Sect. 475 (5 Year Warranty)
- CPPF | Concrete Pavement - Sect. 355 (5 Year Warranty)
- PMASP | Painted Mast Arms and Strain Poles - Spec. 649 (5 Year Warranty)
- PTSM | Permanent Tape Stripes & Markings - Sect. 713 (180 Day Warranty)
- TSM | Traffic Stripes and Markings / Thermoplastic - Spec. 711 (180 Day Warranty)
- TURF | Performance Turf - Section 570 (1 Year Warranty)

VALUE ADDED ASPHALT PAVEMENT - SECTION 338

Table 338-1 Category 1 Pavements		
Type of Distress	Threshold Values	Remedial Work
Rutting (1)	Depth > 0.25 inch	Remove and replace the distressed LOT(s) to the full depth of all layers and to the full lane width (2)
Ride (3)	RN < 3.5 IRI > 110 inches/mile	Remove and replace the friction course layer for the full length and the full lane width of the distressed LOT(s)(4)
Settlement/Depression(5)	Depth ≥ 1/2 inch	Propose the method of correction to the Engineer for approval prior to beginning remedial work
Cracking (6)	Cumulative length of cracking > 30 feet for Cracks > 1/8 inch	Remove and replace the distressed LOT(s) to the full depth of all layers, and to the full lane width (7)
Raveling and/or Delamination affecting the Friction Course (8)	Any length	Remove and replace the distressed area(s) to the full distressed depth and the full lane width for the full distressed length plus 50' on each end
Pot holes and Slippage Area(s) (8)	Observation by Engineer	Remove and replace the distressed area(s) to the full distressed depth and the full lane width for the full distressed length plus 50' on each end
Bleeding (9)	Loss of surface texture due to excess asphalt, individual area ≥ 10 sf.	Remove and replace the distressed area(s) to the full distressed depth and the full lane width for the full distressed length plus 50' on each end

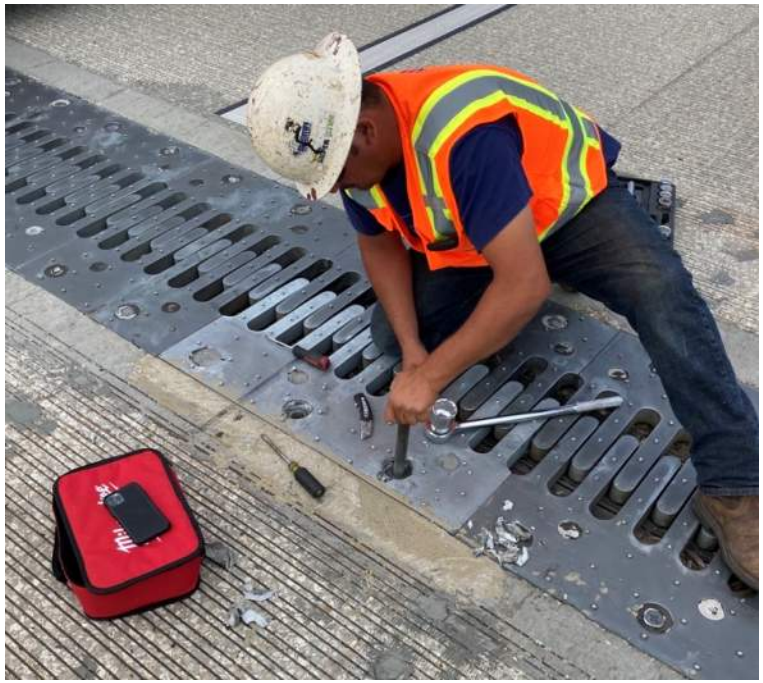
Asphalt Deficiencies

VALUE ADDED BRIDGE COMPONENTS - SECTION 475

475-3.2 Value Added Performance Period: The Responsible Party shall warrant performance of bridge components for at least the following periods or for a longer period if offered by the Contractor in his proposal which starts on the date of final acceptance of the Contract:

(a) **Bridge Deck Expansion Joint** Devices and Hardware: Armor and Hardware - **5 years**, Seals - **5 years**

475-3.3.1 Bridge Deck Expansion Joint Devices and Hardware: Water leakage through joints; separation of the seal from the steel or concrete substrate; failure of the seal material such as cracking, chalking, scaling, peeling, or splitting; sagging of elastomeric seal; warping of the steel plate or extrusion that is detrimental to the functioning of the joint; separation of the steel plate or extrusion from the deck concrete; spalling or delamination of the deck concrete within 18 inches of either side of the joint; and any defect in modular bridge expansion joint elements including backing bars, steel extrusions, flexible membranes, proportioning bars, bushings, pins, bearings, side frames, and tracks.



Bridge joint repairs

VALUE ADDED PORTLAND CEMENT CONCRETE PAVEMENT - SECTION 355

Table 355-1 Concrete Pavement Threshold Values and Remedial Work		
Type of Distress	Threshold Values	Remedial Work
Ride	Ride Number < 3. 50	Grind all deficient LOTs and partial LOTs in accordance with Section 352.
Spalling in the wheel path	Four areas in any Lane Mile exceeding 1 inch in width and exceeding 6 inches in length OR any single area exceeding 3 inches in width.	Full depth slab replacement for a minimum of 6 feet in length and the full width of the slab in accordance with Section 353.
Spalling outside the wheel path	Four areas in any Lane Mile exceeding 1-1/2 inches in width and 12 inches in length OR any single area exceeding 3 inches in width and 12 inches in length.	Full depth slab replacement for a minimum of 6 feet in length and the full width of the slab in accordance with Section 353.
Cracking	Four Cracks in any Lane Mile with width exceeding 1/8 inch OR any Crack exceeding 3/16 inch.	Full depth slab replacement for a minimum of 6 feet in length and the full width of the slab in accordance with Section 353.
Shattered Slab	Cracking patterns that divide the slab into three or more segments	Full slab replacement in accordance with Section 353.

GALVANIZED STEEL POLES, MAST ARMS, AND MONOTUBE ASSEMBLIES - SECTION 649

The work in this Section consists of furnishing and installing galvanized steel strain poles, galvanized steel mast arms, galvanized steel monotube assemblies, and galvanized steel CCTV poles in accordance with the details shown in the Contract Documents, subject to a five year warranty period as defined herein.


08/24/2021

THERMOPLASTIC PAVEMENT MARKINGS - SECTION 711

711-7 Observation Period.

Longitudinal pavement markings are subject to a 180 day observation period under

normal traffic. The observation period shall begin with the satisfactory completion and

acceptance of the work.

The longitudinal pavement markings shall show no signs of failure due to blistering,

excessive cracking, chipping, discoloration, poor adhesion to the pavement, loss of

retroreflectivity or vehicular damage. The retroreflectivity shall meet the initial requirements of

711-4.3. The Department reserves the right to check the retroreflectivity any time prior to the end of the observation period.

PERFORMANCE TURF - SECTION 570

- **570-4 Turf Establishment :** Perform all work necessary, including watering and fertilizing, to sustain an established turf, free of noxious weeds, at no additional expense to the Department. Provide the filling, leveling, and repairing of any washed or eroded areas, as necessary.

- **570-5 Responsible Party:** For the purposes of this Specification, the Contractor shall be the responsible party throughout construction and establishment periods

Questions?

Thank you for attending!