Section 2.1

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PROJECT SCHEDULING

2.1.1 Purpose

To provide a uniform procedure for monitoring construction contract time and schedules.

2.1.2 Authority

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

2.1.3 General

The project schedules required on each project should be working documents used by the Contractor to plan and direct the construction project. If the project schedule is not updated by the contractor in a timely manner, this could reflect on the CPPR (Contractor Past Performance Rating) grading as outlined in **Section 13.1** of the **CPAM (Construction Project Administration Manual)**. This would be evaluated in category 3 (Timely and Complete Submittal of Documents) within the **Contractor's Past Performance Report, Form No. 700-010-25**. The Contractor must coordinate their own work with that of the subcontractors and utilities. If used properly, the schedule is a management and communications tool that can be used to anticipate and prevent problems from occurring. These issues shall be discussed during weekly progress meetings.

2.1.4 Contract Schedule

(A) Resident Level Responsibilities

Once the project is awarded, the Contractor prepares a proposed Contract Schedule in accordance with contract documents which in turn is submitted to the Project Engineer. The Project Engineer, with the involvement of the District Scheduling Engineer, reviews the schedule, and if it meets contract requirements, submits it to the Resident Engineer for acceptance. If the district doesn't have a designated Scheduling Engineer, then the Resident Engineer would review the schedule. If the schedule does not reflect a reasonable or feasible plan to construct the project in the authorized contract time or the schedule is not prepared according to the specifications, the schedule will be rejected. Schedules should indicate the completion of the project within the allowable contract time.

The Department will accept Bar Charts for projects less than \$10million.

The following items should be checked for when a CPM Schedule is being utilized:

- (1) The schedule reflects the phases in the MOT plan.
- (2) Activities are broken-out by phase.
- (3) Phases are in correct sequence.
- (4) Order of the activities is logical.
- (5) The schedule contains all milestones specified.
- (6) Utility work is shown.
- (7) Activity durations appear reasonable.
- (8) Level of detail reflects the complexity of the project.
- (9) Complete and concise description of the Contractor's Construction Plan.
- (10) The submittal is complete as per the contract documents and contains preparation (Contractor's time) review and approval (Department's time), and fabrication and delivery (manufacturer's/supplier's time) activities for each category of submittal required.
- (11) Activities include procurement time for material including shop drawing submittal and approval process.
- (12) All non-workdays are shown.
- (13) Check constrained activities.
- (14) Any activity that applies cost loading (has a budgeted cost) should conform reasonably well within the amount bid for same type work.

If the schedule submitted by the Contractor shows an early completion date, the schedule shall be reviewed thoroughly. The early completion date shown on the schedule could be

attributable, in whole or in part, to errors in logic, unrealistic production rates, or the absence of critical activities. A schedule may not be rejected solely based on having a completion date earlier than that shown on the contract.

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A Contract Schedule which is rejected should be done so in writing, detailing the reasons for the rejection. A Contract Schedule must also be accepted in writing. After acceptance, this Contract Schedule becomes the **Baseline Schedule**. This Contract Schedule is the schedule by which progress of the project is gauged.

2.1.5 Revised Schedules and Monthly Updates

(A) Resident Level Responsibilities

When the contract time is significantly altered by time extensions or supplemental agreements, the Department may request the Contractor to submit a revised *Bar Chart* or Critical Path Method (CPM) Schedule. Requests for *Revised Schedules* should be in writing. Revised Schedules must be accepted, accepted as noted or rejected in writing. Rejections must be done so detailing the reason for the rejection. When the contract specifies a *CPM Schedule*, the schedule should be updated on a monthly basis to coincide with the progress payment period. These updates should include all approved time extensions, and supplemental agreements. These *Monthly Updates* should be reviewed for accuracy and any significant revisions in logic or duration from the Contract Schedule and previously accepted Monthly Update must be addressed in writing when found to conflict with the contract. Monthly Updates must be accepted, accepted as noted or rejected in writing. Rejections must be done so detailing the reason for the rejection.

The following items should be considered when reviewing Monthly Updates:

- (1) Check to make sure that the actual dates (for activities either in-progress or completed) and the percentages complete/days remaining are historically accurate.
- (2) Run the scheduling calculation in the "log to file" mode and Primavera will itemize the "open ends." Check to make sure that all "open ends" are closed, so that all calculated float values are accurate and not inflated. All activities except the first one should have predecessors, and all activities except the last one should have successors.
- (3) Similarly, run the scheduling calculation in the "log to file" mode and Primavera will itemize the "out-of-sequence progress." Remedy the out-of-sequence progress by making logic changes that are agreed to between the Engineer and the contractor.

(4) Ensure on a continuous basis that the Contractor is pursuing the critical path work activities. The "three-week schedule" and "controlling items of work" that the Contractor submits should indicate that he is primarily working on the critical or near critical activities, as a minimum.

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- (5) Run a comparison using "Schedule Comparison" (i.e. "Claim Digger" for versions prior to P6 Version 16.1) between the Monthly Update and the previously accepted Monthly Update and the Contract Schedule to see if the Contractor made any unauthorized changes to either the original durations or logic or, if he added any unauthorized constraints. If he did, bring it to his attention and resolve it with the Contractor.
- (6) In addition, the "Schedule Comparison" will itemize the "activities that should have started this update but did not" and the "activities that should have finished this update, but did not". Bring these to the Contractor's attention, particularly the critical or near critical activities, to help get him back on track.
- (7) Lastly, check to make sure that all holidays, suspension days and weather days granted through the update are put into the schedule's calendar as "non-work" days, so that they are considered when the schedule is calculated."

2.1.6 Schedule Distribution

(A) Resident Level Responsibilities

Electronic files (XER and/or PDF) of all Contract Schedules, Revised Schedules and Monthly Updates will be kept in the Department provided web-based collaboration site.

2.1.7 Withholding Progress Payments

(A) Resident Level Responsibilities

Specifications for project schedules allow the withholding of progress payments to the Contractor if the Contractor fails to finalize either the Contract Schedule, Monthly Update, or Revised Schedule in the time specified in the specifications. If a Contractor is making a good faith effort at developing a schedule, withholding payments may not be appropriate. If a Contractor is not making a good faith effort, the project personnel can use withholding payment to convince a Contractor that the Department is serious in its desire to have an

acceptable schedule. An acceptable schedule implies good coordination and good communication.

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If the Contractor submits a Contract Schedule, Monthly Update or Revised Schedule which indicates completion of the project after the expiration of allowable contract time, Resident staff shall consult with the District Construction Office, State Construction Office and the Office of General Counsel prior to notifying the Contractor of Schedule Revision acceptance.