

Section 01326

CONSTRUCTION SCHEDULE (BAR CHART)

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Prepare and submit to the Engineer an initial Construction Schedule as required by this section for the Work. Do not start construction until the schedule is approved by the City Engineer.

1.02 FORM AND CONTENT OF INITIAL CONSTRUCTION SCHEDULE

A. Bar Chart:

1. Show major construction activities such as pipe laying (by traffic control phases or other approved key areas), tunnel construction, pavement removal, pavement replacement, pressure testing, chlorination, clean up and punch out as separate activities on the schedule.
2. Show all work items where new water mains and other new utilities connect to City facilities. Activities shall have no more than two-week duration.
3. Show separate activities for each shop drawing and product data submittal that are critical to timely completion. Show submission dates and dates approved submittals will be needed from the City Engineer.
4. Provide separate horizontal bar for each activity. List start and finish date for each activity at left side of diagram.
5. Horizontal Time Scale: Identify first work day of each week.
6. Scale and Spacing: Notes must be legible and Contractor must allow space for notations and future revisions.
7. Order of Listings: Order bar chart listings by phases or other approved groups of activities that are contiguous. Activities shall be in chronological order within each phase or group. For example, for each segment of new open cut water main placement, the schedule shall have an activity for layout, traffic control, pavement removal, water main placement and backfill, pavement restoration, traffic control removal and pavement markings restoration and clean up. For each tunnel or auger activity, the schedule shall have an activity for layout, traffic control, shaft construction, tunnel construction or auger activity, pipe placement in tunnel or auger,

grouting (if required), shaft removal, pavement replacement, pavement marking replacement, traffic control removal and pavement marking restoration and clean up.

B. Narrative Description:

1. Submit narrative description of anticipated work sequence as indicated by sequence of activities presented in the schedule.
2. Narrative shall be of sufficient detail to discuss any activity that affects the public (such as phases of traffic control), interaction with specific City forces (such as valved operation, chlorination and testing) or other associated prime Contractors.

1.03 PROGRESS REVISIONS

A. Submit progress revisions monthly as part of Application for Payment or information necessary for Application for Payment. Application for Payment shall not be considered complete or processed for payment until progress revision is submitted. When required, resubmittal for rejected revision must be made, reviewed and approved prior to the following month's pay application being processed. Pay Application for the following month will not be processed until resubmittal is approved and Progress Revision required that month is received.

B. Provide Narrative Report to describe:

1. Major changes in scope.
2. Revised projections in progress, and completion, or changes in activity durations.
3. Other identifiable changes.
4. Problem areas, anticipated delays, and the impact on schedule.
5. Corrective action recommended and its effect.
6. Effect of changes on schedules or other prime contractors.
7. Material delivery delays.

C. Additional data to be included with Bar Chart described in Paragraph 1.01 of this section:

1. Original dates shown for each activity in the approved initial progress schedule shall be shown by a narrow bar next to wider bar for current schedule.

2. Date that each activity actually started or finished if that event has occurred. Actual dates must be clearly identified in two right-most columns in the left portion of 11-inch by 17-inch chart.
3. Indicate percentage progress of each activity to the date of submission.

1.04 SUBMISSIONS

- A. Submit initial progress schedule within 15 days after award of contract. The City Engineer will review the schedule and return the review copy within 14 days after receipt.
- B. Cut-off date for progress revision may be as early as the twentieth of the month so that submittal can be made without delay to processing of Application for Payment. Use same cut-off day for all revisions as used in first approved revision.
- C. When required, resubmit within 7 days after return of review copy.
- D. Schedule shall include connecting lines between bars to indicate sequence that activities will be accomplished such that if activity's start or finish is modified, then impact will be known by the corresponding changes to preceding or succeeding activities identified by the connecting lines. Submit minimum of 6 copies of bar chart on 11-inch by 17-inch opaque reproductions of which 5 copies will be retained by City Engineer and remaining copies will be returned to Contractor.

PART 2 PRODUCTS - Not Used

PART 3 EXECUTION - Not Used

END OF SECTION