

SECTION LS 623

CONSTRUCTION LAYOUT AND SURVEY

PART 1 – GENERAL

1.1 SUMMARY

- A. Work included under this section includes all labor, materials and services required to properly and accurately locate line and grade of all new construction, measure line and grade of all existing bench marks, provide as-built measurements of location and elevation of new construction. All centerline monuments located within the new pavement area shall be completely removed. Reinstallation of centerline monuments will be done by others.
- B. The provisions of CMS Item 623 shall be followed except as modified herein and as directed by The City of Lakewood and Chief Surveyor. English units shall be used.
- C. All surveying work shall be done under the responsible direction of a surveyor registered as such by the State of Ohio.

Relative accuracy for construction vertical elevation control shall be plus or minus 0.05 foot. Relative accuracy for horizontal location control shall be plus or minus 0.10 foot.

PART 2 – PRODUCTS

2.1 SURVEYING

- A. All products required to perform the surveying specified herein shall be furnished by the contractor.

PART 3 – EXECUTION

3.1 CONSTRUCTION CONTROL

- A. Bench marks, centerlines and intersections are as shown on the plans. All additional elevation and location information required to execute the project according to these specifications is the responsibility of the Contractor.

- B. Elevations on the plans reference the bench marks. Figured dimensions on drawings take precedence over measurements by scale. Detailed drawings take precedence over general drawings and shall be considered explanatory of them and not as indicating extra work.
- C. Any inspection or checking of the construction survey control or the finished work by the City shall not relieve the Contractor of his responsibility to comply with the designed lines and grades, within the specified tolerances, unless requested modifications for constructability are approved by the City in advance.

3.2 RECORD AND AS-BUILTS DATA

- A. The Contractor shall submit to the City a set of Record Drawings upon which the as-built constructed lines and grades are clearly recorded. This shall be done in red on a set of 24" x 36" bid and construction drawings. All Record Drawing sheets shall be dated and signed off by the Contractor and submitted to the City within 60 days of project completion. Additional drawing sets are available from the City.
- B. The Record Drawings shall incorporate addenda, change orders, field orders, work directive changes and all other changes to the original drawings to reflect the actual in-place installation of the work.
- C. The Record Drawings shall include, but not be limited to, the location and elevation of all new work, existing structures to remain.
- D. The Record Drawings shall also include the location and elevation of all existing underground utilities and structures, both noted and not noted on the original drawings. These shall be shown on the appropriate drawing plans, elevations and details and shall include observable dimensions and material types.

PART 4 – PAYMENT

4.1 METHOD OF MEASUREMENT

- A. The City of Lakewood will measure and pay for construction layout and survey as a Lump Sum billed at percent of project complete.

4.2 BASIS OF PAYMENT

- A. Unless separately itemized, the Lump Sum bid for construction layout & survey shall include the cost of performing all work described above.

END OF SECTION LS 623