

PART 1 - GENERAL

<u>1.1 Related Sections</u>	.1	Section 01 78 00 - Closeout Submittals.
<u>1.2 Precedence</u>	.1	For Federal Government projects, Division 1 Sections take precedence over technical specification sections in other Divisions of this Project Manual.
<u>1.3 References</u>	.1	Owner's identification of existing survey control points and property limits.
<u>1.4 Qualification of Surveyor</u>	.1	Qualified registered land surveyor, licensed to practice in Place of Work, acceptable to Departmental Representative.
<u>1.5 Survey Reference Points</u>	.1	Locate, confirm and protect control points prior to starting site work. Preserve permanent reference points during construction.
	.2	Make no changes or relocations without prior written notice to Departmental Representative.
	.3	Report to Departmental Representative when reference point is lost or destroyed, or requires relocation because of necessary changes in grades or locations.
	.4	Require surveyor to replace control points in accordance with original survey control.
<u>1.6 Survey Requirements</u>	.1	Establish permanent bench marks on site, as required, referenced to established bench marks by survey control points. Record locations, with horizontal and vertical data in Project Record Documents.
	.2	Establish lines and levels, locate and lay out, by instrumentation.

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- .3 Stake for grading, fill and topsoil placement.
- .4 Stake slopes.
- .5 Establish pipe invert elevations and location of any exposed pipe not being removed under this contract.
- .6 Record elevation and location of all existing and installed end caps of abandoned underground services.
- .7 Provide coordinates, elevations and dimensions in the field, as required by the Departmental Representative.

1.7 Existing Services

- .1 Before commencing work, establish location and extent of service lines in area of Work and notify Departmental Representative of findings.

1.8 Records

- .1 Maintain a complete, accurate log of control and survey work as it progresses.
- .2 On completion of site works, prepare a certified survey showing dimensions, locations, angles and elevations of Work.
- .3 Record locations of maintained, re-routed and abandoned service lines.

1.9 Submittals

- .1 Submit name and address of Surveyor to Departmental Representative.
- .2 On request of Departmental Representative, submit documentation to verify accuracy of field engineering work.
- .3 Submit certificate signed by surveyor certifying and noting those elevations and locations of completed Work that conform with Contract Documents.