

Survey

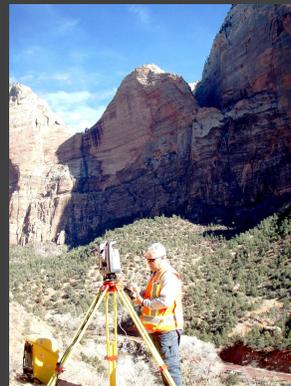
- Who will be performing surveys?
 - In-house or sub?
 - Surveyors to be readily available?
 - QA/QC Plan
 - Local experience
 - Traffic control/safety
 - Technology to be used
 - Crew availability
 - Track record/personnel qualifications

Survey

- Well-defined Scope of Work (SOW)
 - Mapping limits
 - Survey control plan
 - Accuracy requirements
 - Contour interval/scale
 - Technology to be used
 - Right of way survey requirements
 - FP-14

Survey

- Pre-Mapping Survey Meeting
 - Attendees
 - Access
 - Safety
 - Weather
 - Traffic control
 - Point coding
 - Technology
 - Field notes



Survey

- Post-mapping reviews/verification
 - Mapping standards
 - Accuracies achieved?
 - Sufficient ROW points collected?
 - Topo limits obtained?
 - Verify coordinate system & datums
 - Cross check field notes vs electronic data

Construction Survey

- Pre-construction survey meeting
 - Attendees
 - Staking methods/frequency
 - Data submittals/milestone dates
 - Field point coding
 - Survey control
 - Coordinate systems
 - Equipment/software
 - Safety/traffic control



Construction Survey QA

- Total Station
- GPS
- Drone mapping
- AMG



Bridges and Structures

- Staking methods
- Survey control checks
- Staking reports
- Slope staking/topo checks
- GPS vs. Total Station
- 3D modeling
- Regular survey meetings

Questions?



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