

Summary Report for Individual Task
052-243-1562
Prepare a Site Plan for General Construction
Status: Approved

DISTRIBUTION RESTRICTION: Approved for public release; distribution is unlimited.

DESTRUCTION NOTICE: None

Condition: In an office environment, given a computer system with civil/survey software installed, total station surveying instrument or survey-grade GPS equipment with accessories, survey data from a preliminary site survey, and ERDC/ITL TR-09-2 (A/E/C CAD Standard). This task should not be trained in MOPP.

Standard: Create a site plan drawing of an existing site by downloading survey data from the instrument and modifying the data with civil/survey software. Draw all existing utilities, property boundaries, and existing features (man-made and natural). Insert North arrow, title block, and graphic scale. Create the drawing in accordance with ERDC/ITL TR-09-2 (A/E/C CAD Standard).

Special Condition: None

Safety Level: Low

MOPP: Never

Task Statements

Cue: None

DANGER
None

WARNING
None

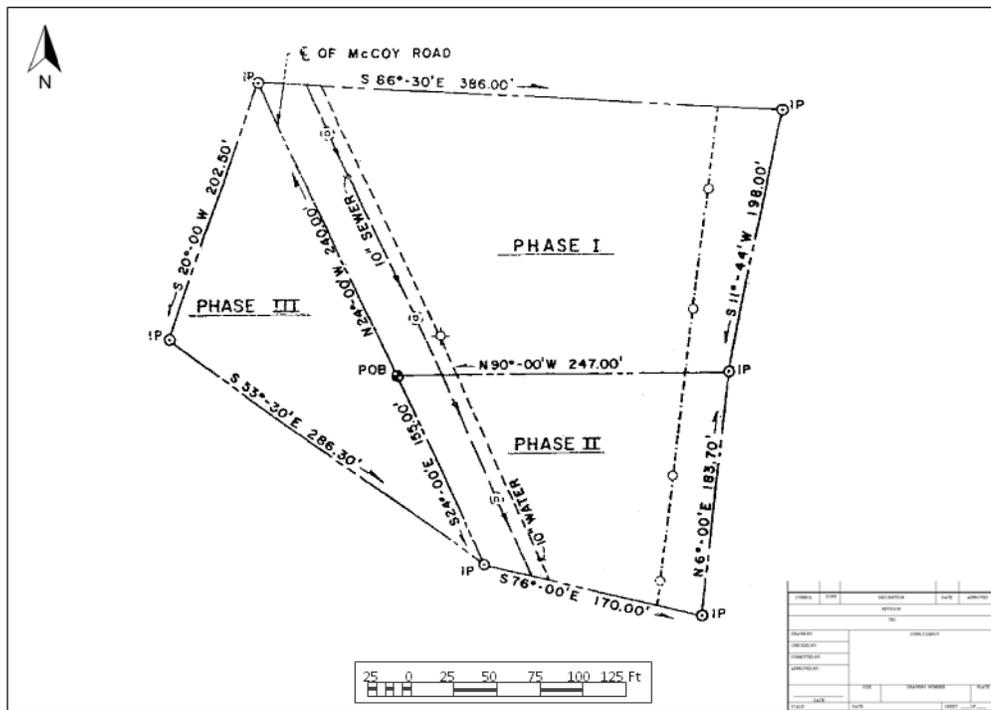
CAUTION
None

Remarks: None

Notes: ERDC/ITL Standards can be found at the following web address:
<http://www.nwp.usace.army.mil/About/Standards.aspx>

Performance Steps

1. Start the civil/survey software.
2. Connect the total station or GPS receiver to the computer using the supplied download cable.
3. Download the survey data using the civil/survey software.
4. Open survey data with civil/survey software.
5. Modify the downloaded point data to remove/correct any found deficiencies or unnecessary points.
6. Modify the line-work to correct/remove any unintentional line-work entries made by the civil/survey program.
7. Depict all existing utilities, property boundaries, and existing features (man-made and natural) by creating them in the civil/survey program.
8. Create the title block, North arrow, and graphic scale in the civil/survey program.
9. Plot the drawing.



Site Plan Example

(Asterisks indicates a leader performance step.)

Evaluation Guidance: Score the Soldier GO if all steps are passed (P). Score the Soldier NO-GO if any step is failed (F). If the Soldier fails any step, show them how to do it correctly.

Evaluation Preparation: Setup: Provide the Soldier with the items that are listed in the condition statement. Ensure that all safety precautions are followed. Prepare the testing site and equipment in advance to ensure that the task standard can be met.

Briefing: Give the Soldier a safety briefing and read the task, condition, and standard before starting the test.

PERFORMANCE MEASURES	GO	NO-GO	N/A
1. Started civil/survey software.			
2. Connected the total station or GPS receiver to the computer using the download cable.			
3. Downloaded the survey data.			
4. Opened survey data with civil/survey software.			
5. Modified the point data.			
6. Modified the line-work.			
7. Depicted all existing utilities, property boundaries, and existing features (man-made and natural).			
8. Created the title block, North arrow, and graphic scale.			
9. Plotted the drawing.			

Supporting Reference(s):

Step Number	Reference ID	Reference Name	Required	Primary
	ERDC/ITL TR-09-2	A/E/C CAD Standard Release 4.0.	Yes	No

Environment: Environmental protection is not just the law but the right thing to do. It is a continual process and starts with deliberate planning. Always be alert to ways to protect our environment during training and missions. In doing so, you will contribute to the sustainment of our training resources while protecting people and the environment from harmful effects. Refer to FM 3-34.5 Environmental Considerations and GTA 05-08-002 ENVIRONMENTAL-RELATED RISK ASSESSMENT. Conduct an Environmental Risk Assessment IAW FM 3-100.4. The assessment should be recorded on the Risk Management Worksheet found in Appendix F of FM 3-100.4. During the assessment, be on the lookout for environmental hazards, Environmental hazards include all activities that may pollute, create negative noise-related effect, degrade archaeological, cultural resources, negatively affect threatened or endangered species' habitats.

Safety: In a training environment, leaders must perform a risk assessment in accordance with FM 5-19, Risk Management. Leaders will complete a DA Form 7566 COMPOSITE RISK MANAGEMENT WORKSHEET during the planning and completion of each task and sub-task by assessing mission, enemy, terrain and weather, troops and support available-time available and civil considerations, (METT-TC). Note: During MOPP training, leaders must ensure personnel are monitored for potential heat injury. Local policies and procedures must be followed during times of increased heat category in order to avoid heat related injury. Consider the MOPP work/rest cycles and water replacement guidelines IAW FM 3-11.4, Multiservice Tactics, Techniques, and Procedures for Nuclear, Biological, and Chemical (NBC) Protection, FM 3-11.5, Multiservice Tactics, Techniques, and Procedures for Chemical, Biological, Radiological, and Nuclear Decontamination. All operations will be performed to protect and preserve Army personnel and property against accidental loss. Procedures will provide for public safety incidental to Army operations and activities and safe and healthful work places, procedures, and equipment.

Prerequisite Individual Tasks :

Task Number	Title	Proponent	Status
052-243-1602	Perform a Preliminary Site Survey (Topographic/Radial Survey) with a Total Station and Survey Controller	052 - Engineer (Individual)	Approved
052-243-1601	Perform a Preliminary Site Survey (Topographic/Radial Survey) with a Total Station Survey Instrument	052 - Engineer (Individual)	Approved

Supporting Individual Tasks :

Task Number	Title	Proponent	Status
052-243-1302	Modify a Standard Army Facilities Component System (AFCS) Drawing	052 - Engineer (Individual)	Analysis
052-243-1554	Download Data from Differential Global Positioning System (DGPS) Receiver	052 - Engineer (Individual)	Analysis

Supported Individual Tasks :

Task Number	Title	Proponent	Status
052-243-3431	Perform Quality Control Checks of Survey Data	052 - Engineer (Individual)	Analysis
052-243-3419	Design Roadway Geometry	052 - Engineer (Individual)	Analysis
052-243-3412	Determine Drainage Requirements	052 - Engineer (Individual)	Analysis
052-243-1607	Prepare a Plot Plan for General Construction	052 - Engineer (Individual)	Analysis

Supported Collective Tasks : None

ICTL Data :

ICTL Title	Personnel Type	MOS Data
12T10, Technical Engineer Specialist, Skill Level 1	Enlisted	MOS: 12T, Skill Level: SL1, Duty Pos: KIR