

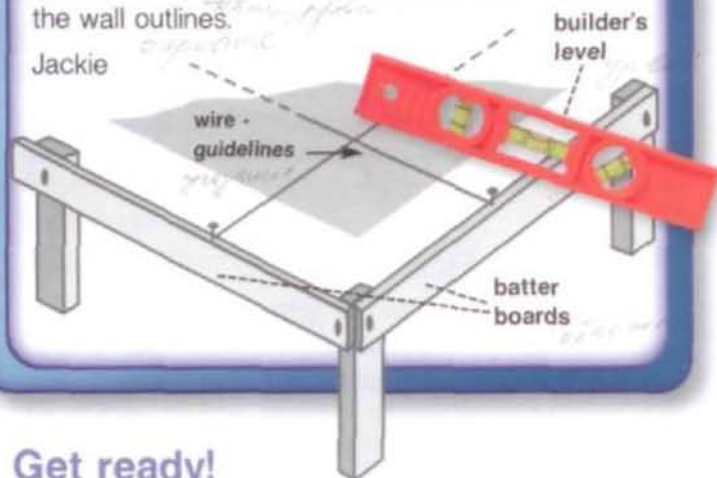
From: Jackie Sandburg  
To: Luke Grissom  
Re: Site Layout Today

Luke,

Today we'll finish the site layout for the office building on Lincoln Boulevard. We'll need to have a complete **site plan** by the end of the day. It should show the **property lines**, available **utilities**, and all significant changes in elevation.

I know this is your first time leading the crew. So I'll just give you a few reminders. Be sure your crew brings all the necessary equipment. Don't forget the **builder's level** and **grade rod**. You can't establish **horizontal** planes or measure elevation changes without them. There are already **bench marks** set at the site to help with that. You'll also need some **monuments** to **stake** out the property lines. Last, bring several **batter boards** and at least 100 meters of string or **wire**. Put the boards at the building corners. Then **run** the wire between them to show the wall outlines.

Jackie



### Get ready!

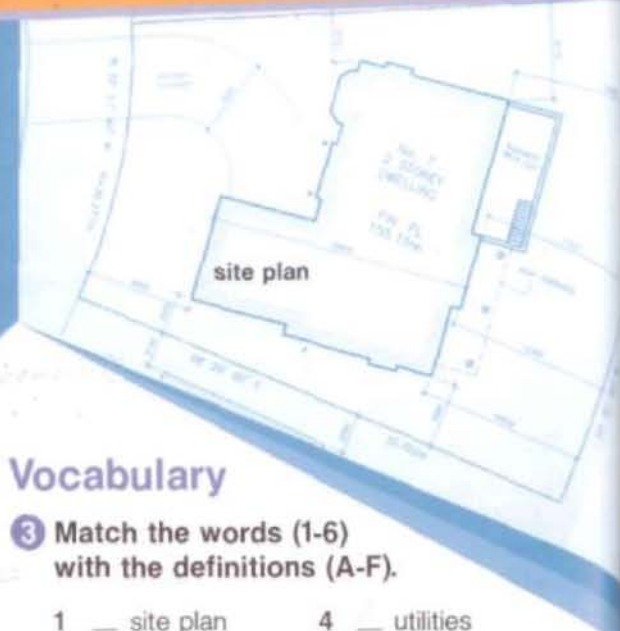
- 1 Before you read the passage, talk about these questions.

- 1 What is a map of a construction site called?
- 2 What is some equipment used for site layout?

### Reading

- 2 Read the email from a contractor to a site manager. Then, mark the statements as true (T) or false (F).

- 1 ☐ The grade rod is needed to measure elevation changes.
- 2 ☐ The team has to set bench marks by the end of the day.
- 3 ☐ Batter boards and wire mark the property lines.



### Vocabulary

- 3 Match the words (1-6) with the definitions (A-F).

- |   |  |
|---|--|
| 1 <input type="checkbox"/> site plan    | 4 <input type="checkbox"/> utilities     |
| 2 <input type="checkbox"/> horizontal   | 5 <input type="checkbox"/> property line |
| 3 <input type="checkbox"/> batter board | 6 <input type="checkbox"/> wire          |

- A a set of services required at most buildings, including electricity, natural gas, water, and sewage
- B parallel to the plane of the horizon, or flat
- C a drawing for a building project that shows its location, utilities, and property lines
- D a piece of metal shaped into a thin, even thread
- E a horizontal board fastened to a post and located at the corners of an excavation to mark the desired level
- F the legal boundary of a piece of land owned by someone

- 4 Read the sentence pair. Choose where the words best fit the blanks.

- 1 run / stake

- A \_\_\_\_\_ the wire between the batter boards.
- B Please \_\_\_\_\_ monuments at the corners of the property.

- 2 builder's level / grade rod

- A A \_\_\_\_\_ is an optical instrument.
- B This \_\_\_\_\_ has a target that corresponds to the instrument's line of sight.

- 3 bench mark / monument

- A The \_\_\_\_\_ shows the elevation here.
- B There is a \_\_\_\_\_ here showing the boundary of the property.