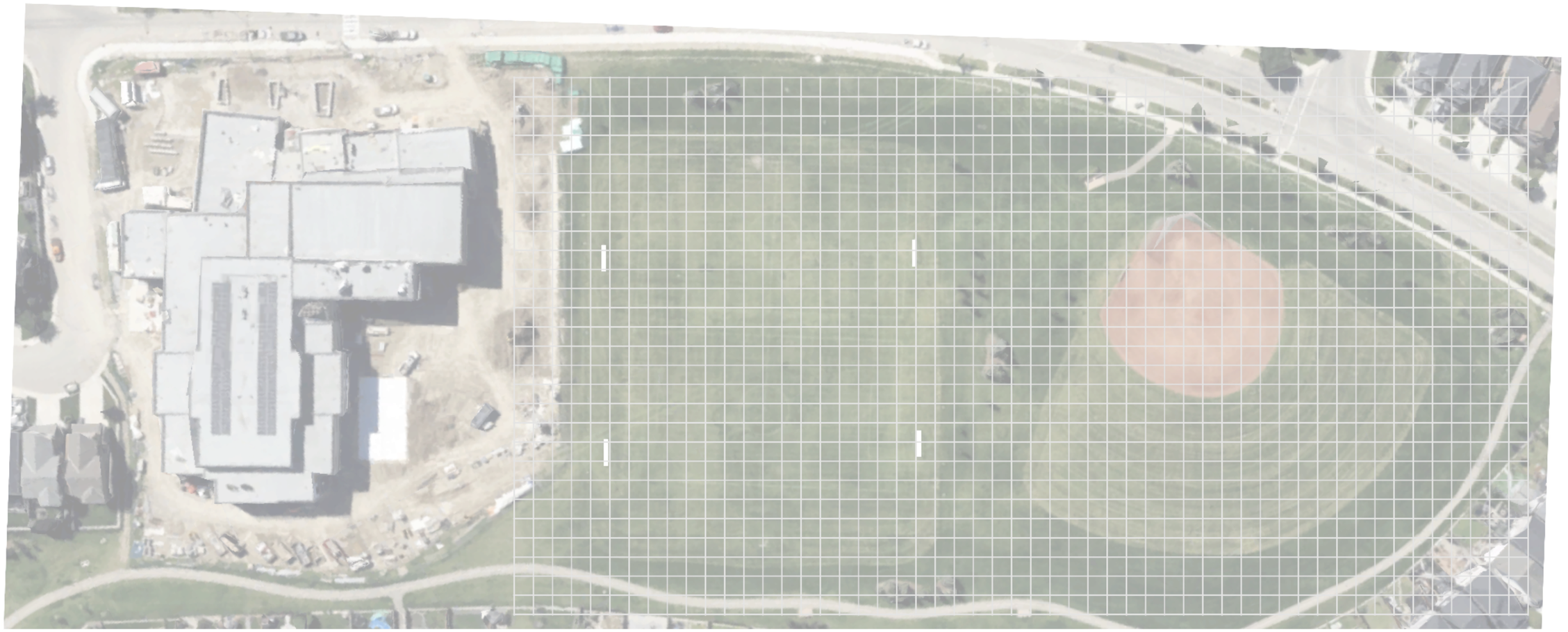


Area = 27 m²

≠Task 1 -Trigonometry Trek: Embark on a mathematical adventure through the school field, identifying landmarks to form right triangles.

Here is a map of Lakeshore's field with a scale grid.

1. On your map, mark out the different right triangles that you find based on the landmarks around the field, such as goal posts, the corner of the baseball diamond, etc.
   For example, a right triangle can be made between _____ ("a" leg) and _____ ("b" leg).

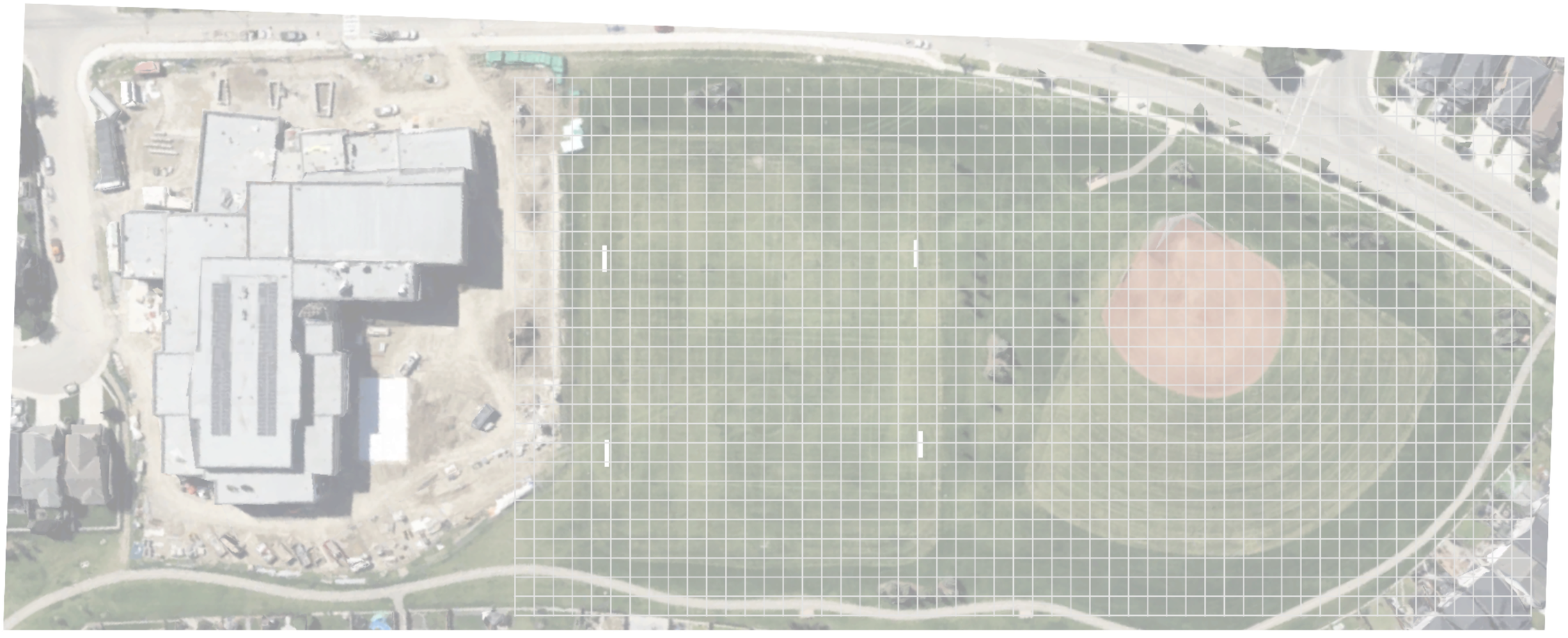
2. Create a unit/scale of measurement that you can use to prove that your triangles are right angles. For example: meters, steps, foot to foot, etc.

   For example, **one square** (on the grid below) **= 5 strides/paces** State your scale: _____

Mark the landmarks on your grid below - a minimum of 5 landmarks is required.

Task 2 - Triangle Cartography: Chart a course, creating a map composed of right triangles for your peers to decipher - this is the pathway to the Treasure!

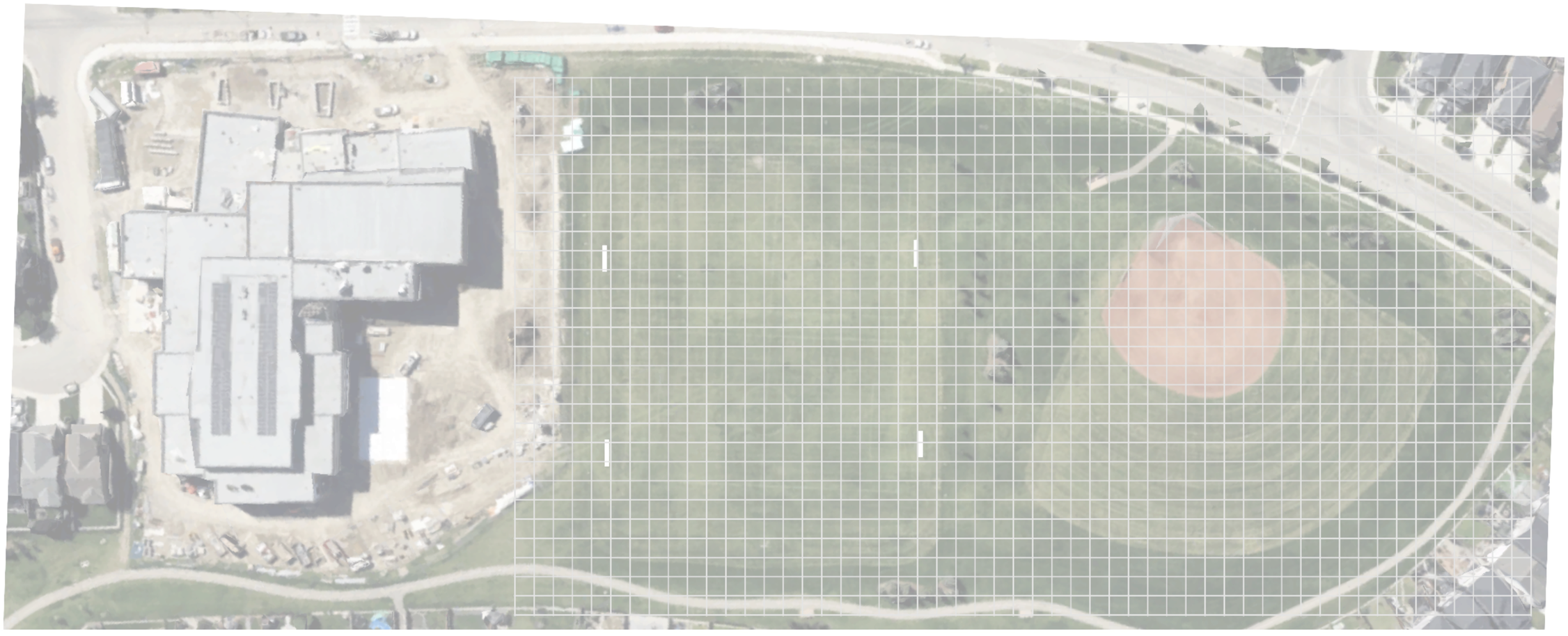
1. Choose a landmark or spot on your map to hide your treasure.
2. Transfer the measurements for hypotenuse sides that you obtained during your exploration onto the gridded map to create right triangles (these should be diagonals formed with an “a” leg and a “b” leg that are horizontal and vertical distances, respectively.)
3. Label the corners of each triangle with the corresponding landmarks or objects from the field.
4. Create at least 5 clues for your peers to solve (using your 5 right triangles - they should be solving for the “c” leg or for a challenge, solve for the “a” leg, “b” leg, area, or perimeter of a triangle).



Area = 27 m^2

Task 3 - Design your Answer Key with all applicable work and a solved visual Map with all pathways marked.

Use the blank Map and Travel Log below to create your Answer Key and include all applicable work on the bottom of this sheet.



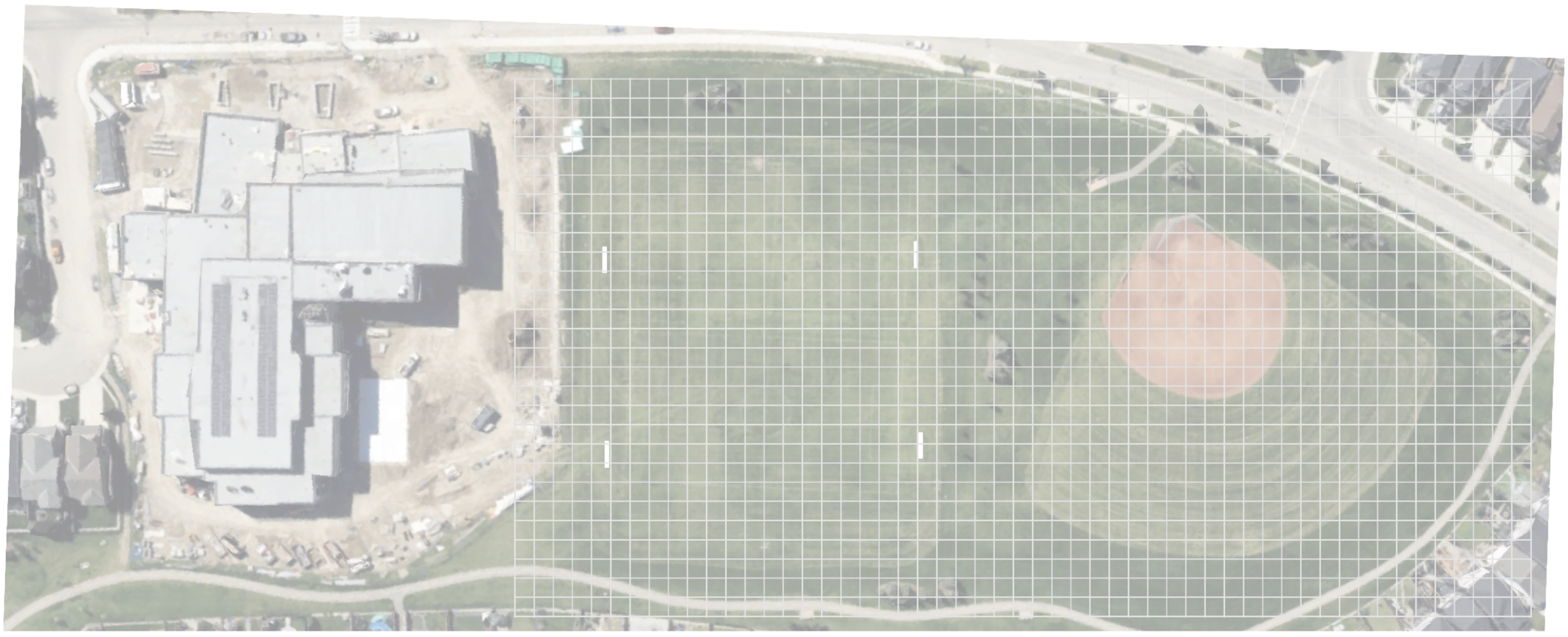
Area = 27 m²

Travel Log (Answer Key)

Travel from where to where (landmarks)	Distance traveled from landmark to landmark (using your scale)	Total distance traveled

Task 4 - Map out your landmarks on the field with small orange cones for another classmate to use as a physical marker that corresponds with your map. Hide your special Treasure at your Endpoint "X" on the field, so that your classmate can claim their reward once they have solved your map!

Task 5 - Solve another classmate's Map using the blank Map and Travel Log below and **include all applicable work on the bottom of this sheet.**



Area = 27 m^2

Travel Log

Travel from where to where (landmarks)	Distance traveled from landmark to landmark (using your scale)	Total distance traveled