

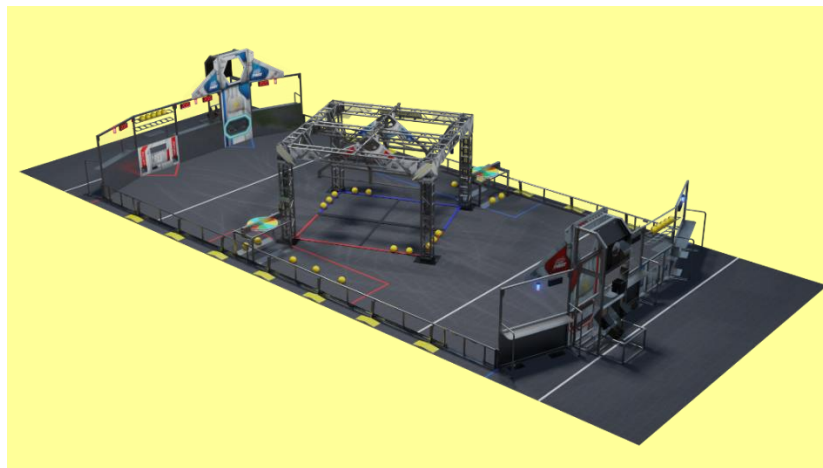
Team Update 01

GENERAL

- **Please note:** The following documents were updated after they were originally posted pre-Kickoff. Please check that your team is using the correct version of each of the following documents:
 - *FIRST* Official CAD Models, updated at 5pm on 1/2/2020
 - Updated location of TRENCH
 - Layout and Marking Diagram, updated at 5pm on 1/2/2020
 - Updated location and dimensions associated with TRENCH
- **Drawing Updates:**
 - The [Field Drawings – season specific](#) drawing package has been updated with the following changes:
 - GE-20100 has been updated to fix CONTROL PANEL color pattern
 - GE-20104 has been updated to fix CONTROL PANEL color pattern and fix some item callouts
 - The [Team Version drawing packages](#) have been updated with the following changes:
 - TE-20000 has been updated to add a drawing for TE-20000-10
 - TE-20001 has been updated to fix hole quantity callouts for TE-20001-01 and to update the description of TE-20001-03 to match the part dimension.
 - TE-20004-23 has been updated with proper material callouts for TE-20004-25 and TE-20004-26
 - TE-20005 has been updated to correct the material list and update a BOM callout.
- An additional photo album has been added to the [Playing Field](#) page. Thanks for the WPI staff and Brad Miller for providing these photos.
- The following link has been updated on the [Playing Field](#) page:
 - [Autodesk Inventor](#)

MANUAL

Section 2 Game Overview



Section 3.5.1 Control Panel

- Figure 3-23 has been updated to correct the appearance of the color pattern on the CONTROL PANEL.

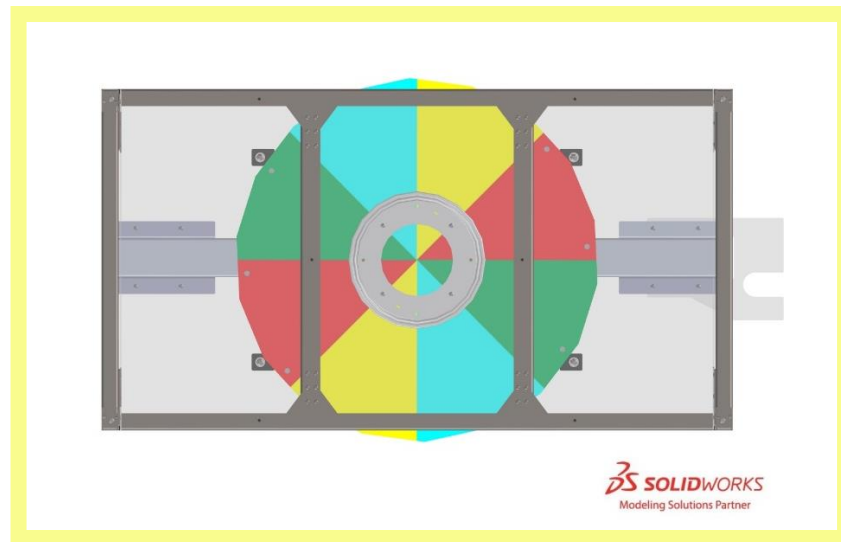


Figure 0-1 TRENCH bottom view

Section 3.7 Vision Targets

Vision targets made from 2 in. (~5 cm) wide strips of 3M 8830 Scotchlite™ Reflective Material are located on the POWER PORTS and LOADING BAYS. On the POWER PORT, they target the location of the INNER and OUTER PORTS and trace the bottom perimeter of the OUTER PORT. The target has an overall height of 1 ft. 5 in. (~43 cm), and a width of 3 ft. 3¼ in. (~100 cm). The bottom of the target is 6 ft. 9¼ in. (~206 cm) above the carpet. A strip of 3M 8830 Scotchlite™ Reflective Material is in each Black Tote of the [2020 Kickoff Kit](#) **FIRST Choice**.

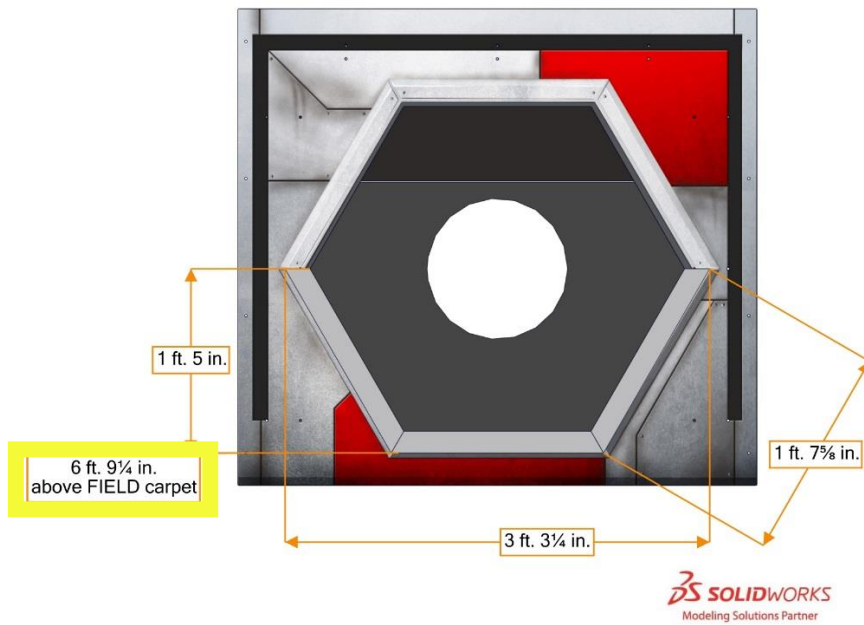


Figure 0-2 POWER PORT Vision Target

Section 7.2.1 During AUTO Only

G3. During AUTO, no defense. During AUTO, no part of a ROBOT's BUMPERS may not break the plane of the opponent's their ALLIANCE's SECTOR (see Figure 3-3.)

Violation: FOUL. If contact with an opponent ROBOT, either directly or transitively through another ROBOT or POWER CELL, TECH FOUL per instance.

Section 12 Glossary

CONTROL	<p>E. Manipulating a POWER CELL such that the POWER CELL is fully supported by the ROBOT, F. the POWER CELL travels across the FIELD such that when the ROBOT changes direction, the POWER CELL travels with the ROBOT, or</p> <p>the ROBOT is holding a POWER CELL against a FIELD element in attempt to guard or shield it. A ROBOT is in CONTROL of a POWER CELL if:</p> <ul style="list-style-type: none"> A. the POWER CELL is fully supported by the ROBOT, B. the POWER CELL travels across the FIELD such that when the ROBOT changes direction, the POWER CELL travels with the ROBOT, or C. the ROBOT is holding a POWER CELL against a FIELD element in attempt to guard or shield it.
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