

Project Summary

Downtown Stadium
Spokane, Washington

The Premier Design-Build Geotechnical Contractor™

Rapid Impact Compaction (RIC)



Project Description:

Advanced Geosolutions Inc. (AGI) performed Rapid Impact Compaction (RIC) to improve the ground conditions at the Downtown Stadium project in Spokane, Washington. Using data acquired, AGI created a deflection map allowing Budinger & Associates to easily determine the sensitive areas with high deflection. Once determined, Budinger & Associates performed post-improvement Standard Penetration Tests (SPT) to verify that the soil improvement achieved a minimum value of 18 blows per foot at each tested location. AGI successfully improved the fill soils and achieved the minimum SPT values required. This was the first application of RIC ever performed in Spokane, Washington and resulted in a success.

Geotechnical Conditions:

- ❖ Existing Fill
- ❖ Basalt Rocks
- ❖ Gravel
- ❖ Anthropomorphic debris

Application:

- ❖ Densification of existing fills
- ❖ Increased bearing capacity
- ❖ Reduced settlement of structures supported on shallow foundations



Design-Build Contractor:

Advanced Geosolutions Inc (AGI)

Owner:

Spokane Public Schools

General Contractor:

Garco Construction

Geotechnical Engineer:

Budinger & Associates, Inc.