



Will Hume, PE



Jared Travis, PE

### UAA Professional Development Seminar Series

## Flattening an Interchange: Managing Client Priorities, saving \$30M, and Garnering Public Support for a First-of-its-Kind Intersection

Presented by: Will Hume, PE and Jared Travis, PE

**ABSTRACT:** HDR was selected in 2017 to design a grade separated *interchange* at the existing intersection of Gaffney Road, Airport Way, Richardson Highway and the Steese Expressway (nicknamed 'GARS'). An interchange was the client's predetermined solution based on the Alaska DOT&PF's approved Highway Safety Improvement Program (HSIP) nomination. HDR developed several interchange alternatives for DOT&PF's consideration. DOT&PF then determined that they would not be able to fund the estimated construction cost of \$45M for the DDI under the HSIP budget and the DDI would also have delayed the project construction by 7-10 years. HDR was asked to develop at-grade approaches that would significantly reduce construction costs and still be ready for construction in 2022. HDR ultimately delivered an innovative intersection configuration that uses elements of both a continuous flow intersection (CFI) and median U-turn (MUT). The resulting CFI-MUT Hybrid design is a one-of-a-kind, unique, intersection that address the safety and mobility issues for one-third of the cost.

Join Senior Traffic Engineer **Will Hume** and Transportation Engineer **Jared Travis** as they discuss the challenges of the project such as the local residents' resistance, the extreme weather and the difficulty to acquire adjacent property, and why innovative intersections provided the ultimate solution.

**BIOS:****Will Hume, PE**

Will Hume is a Professional Associate and Senior Transportation Engineer with HDR specializing in concept development, geometric design, and traffic operations of innovative intersections and interchanges. He has extensive experience developing solutions for the most congested corridors across the United States, incorporating innovative intersection elements to improve operations and safety.

**Jared Travis, PE**

Recognized as a leader locally and nationally in the development of innovative intersection design using Civil 3D design software. Jared is an Alaska based Civil and Transportation Engineer with a knack for modularizing complex designs into manageable and modellable components. His professional focus is designing and managing complex and innovative intersection and roadway projects.

Friday, November 4, 2022

11:45 am - 12:45 pm

Online Via [YouTube Live](#)