

Roadway Design Support:

- Horizontal and vertical alignments for bridge.
- Minimum vertical clearance calculations.
- Design criteria & PDC approval for bridge lane, shoulder, and barrier offset widths.
- Parapet to guardrail & barrier transition design.
- Roadway, utility, and MOT cost estimates.
- Under deck and overhead lighting design.
- Retaining wall plan, profile, and typical section.
- Grading design for slope paving and wing walls.

Structure Type Selection Report:

- Coordination with UDOT Traffic for user costs, MOT scenarios, and construction phasing.
- Roadway and MOT cost comparisons for multiple structure types and MOT scenarios.
- Coordination with planning and design to accommodate bridge widths for future widening.
- Utility impact analysis and cost comparisons.

Bridge and Box Culvert Hydraulics:

- Prepare Hydrology and Hydraulics Report.
- HEC-RAS river modeling.
- Freeboard calculations and scour analysis.
- Countermeasure design (Riprap).
- Approach slab drain design.
- Erosion control plans.
- Stream alteration permits and coordination.

MOT and Limitation of Operations (555):

- Maintenance of traffic plans for detour routes.
- Prepare limitation of operations specification.
- Coordination with traffic engineers at the Region and Traffic Operations Center.

Project Management and Advertising:

- Coordination with Structures and Region PMs.
- Manage project schedule & milestone reviews.
- Prepare specs, M&P, & Masterworks Estimate.
- Coordination with Region & Central Advertising.
- Constructability review coordination.

Utility and Railroad Coordination:

- Utility relocation agreements coordination.
- Coordination with UPRR and UTA.
- Prepare railroad & utility special provisions.

Interdisciplinary Coordination:

- Environmental document coordination.
- Right of way and geotechnical coordination.
- Design support during construction.

Perkins - Structures Support Projects

Region 4

***I-15 over
Nichols Rd
Replace D-762***

*Services: MOT Plans and
Coord. For I-15 Closure, PM,
Roadway & Drainage Design*

***SR-118 over
Sevier River
Replace D-272***

*Services: Bridge Hydraulics
and Riprap Design, PM,
Roadway Design, Utility
coord., Advertising, MOT*

Region 3

***SR-311 over
Strawberry River
Replace C-72***



*Services: Bridge
Hydraulics, Freeboard,
Scour analysis, Riprap
Design, PM, Roadway
Design,
Utility Coordination,
Advertising, and MOT*

Region 2

Emergency Repair Projects:

- SR-32 over Weber River – Scour Protection
- 1700 East over I-80 Girder Repair
- US-40 over SR-248 Girder Repair

***SR-65 over
Weber River,
I-84, & UPRR
Henefer***

*Bridge Preservations and
Replacement at 5 Locations
Services: PM, Advertising,
MOT Detour Plans, and 555*

***Salt Lake Area
I-15, I-80,
I-215, SR-201
TBPO &
Pothole Patch***

*38 Bridge Locations
Services: MOT Plans,
Coordination with Traffic
Engineers, 555 Limitations,
and Advertising*

Region 1

***4300 North
Over UPRR
Preservation
029007F***

*Services: Railroad and Utility
Coordination, PM, Roadway
Design, Advertising, MOT
Detour Plans, and 555*

***I-84 over Deep
Creek
Preserv. F-279***

*Services: PM, Parapet to
Guardrail Transition Design,
Advertising.*