

ENVIRONMENTAL STUDY

Project Name: Bangerter Hwy @ 12600 South

PIN: 14417

Project No.: S-0154(86)6

Prepared by: Craig Bown

For guidance in preparing this environmental study, refer to Chapter 4 of the UDOT Environmental Process Manual of Instruction:

<http://www.udot.utah.gov/go/environmental>

REQUIRED SIGNATURES

I have reviewed the information presented in this Environmental Study and I hereby attest that the document is complete and the details of the document are correct.

Reviewer (Signature): _____ Date: _____

Reviewer (Printed): _____

Firm/UDOT Region: _____

STATE FUNDED PROJECTS

As a result of this Environmental Study, UDOT finds that this project will NOT cause significant environmental impacts.

Approved: _____ Date: _____
UDOT Environmental Services

1. Purpose and Need for Action

The Utah Department of Transportation (UDOT) is conducting a State Environmental Study to analyze improvements at the Bangerter Highway (SR-154) and 12600 South intersection in Riverton, Utah. Currently, this intersection experiences high amounts of congestion operating at Level of Service (LOS) D, with an average AM delay of 41.0 seconds and an average PM delay of 39.5 seconds.

Traffic modeling indicates that by 2040 the intersection would operate at LOS F, with an AM average delay of 166.4 seconds, and PM average delay greater than 369.2 seconds. Additionally, this intersection has a high number of documented front-to-rear crashes due to sudden speed or lane changes associated with traffic congestion. The purpose of the project is to alleviate congestion and improve the operational safety of the Bangerter Highway and 12600 South intersection.

2. Description

UDOT is proposing to construct a grade-separated Single Point Urban Interchange (SPUI) at the existing intersection of Bangerter Highway (SR-154) and 12600 South. The new interchange would allow for unimpeded traffic flow along Bangerter Highway and is projected to operate at LOS D (average delay of 41.64 seconds) during AM travel, and LOS C (average delay of 33.52 seconds) during PM travel into the year 2040.

The project area is located approximately between milepost 6 to 7.5 on Bangerter Highway, and on 12600 South between 4150 West and 3600 West. The project includes: construction of a grade-separated interchange and exit/entrance ramps from Bangerter Highway to 12600 South; utility and storm drainage modifications; and installation of new pavement, traffic signals, ATMS equipment, and roadway signage. To accommodate the proposed upgrades, the existing pedestrian bridge over Bangerter Highway would be removed. Any decision regarding potential replacement of the pedestrian bridge would be made following coordination with Jordan School District. This project will require right-of-way acquisition.

3. Public Hearing/Opportunity for Public Hearing

- Yes** This project could result in public controversy or substantial impacts to adjacent properties, or substantially changes roadway geometry.
- No** There are significant social, economic, environmental, or other effects. If YES, a Categorical Exclusion is not applicable. Consult with UDOT Central Environmental Services.
- Yes** UDOT has determined that a public hearing is in the public interest.

If the answer to ANY of the above questions is YES, a public hearing or opportunity for a public hearing is required (attach documentation identifying date and location of hearing, summary of comments, and responses to substantial comments, or include certification of opportunity for hearing.)

The following types of public involvement have been provided:

- Yes** Public Hearing in accordance with state procedures
- No** Opportunity for Public Hearing
- Yes** Open House
- Yes** Other: Project specific website, email, and hotline.
- Yes** Documentation is attached identifying the date and location of hearing, summary of comments, and responses to substantial comments; or the Certification of Opportunity for a Hearing is attached.

Comments: A public meeting will be held on 10/24/2018 at Riverton City Hall. Public comments and responses will be included within the final document.

4. Right-of-Way

- Yes** Acquisition of Right-of-Way is required.
- No** The right-of-way required is significant because of its size, location, use, or relationship to remaining property and abutting properties. (If the right-of-way required is significant, the project does not qualify as a Categorical Exclusion.)

Comments: Right-of-way acquisition will be required from properties adjacent to Bangerter Highway to accommodate construction of the proposed interchange improvements. Partial parcel right-of-way acquisition is required from 23 parcels, (including residential and commercial) totaling approximately 5.7 acres (248,470 sqft). Full parcel right-of-way acquisition is required from 3 parcels (commercial), totaling approximately 1.98 acres (86,209 sqft). See appendix for Impacted Parcel figure.

5. Cultural

According to the UDOT Region NHPA/NEPA Specialist and/or the Architectural Historian, the Finding of Effect for the project is one of the following:

Yes No historic properties affected

No No adverse effect

No Adverse effect

Project documentation for determination of eligibility and finding of effect consists of one of the following and is attached:

Yes Memo from UDOT Region NEPA/NHPA Specialist and/or Architectural Historian stating a finding of No Historic Properties Affected.

No SHPO concurrence with the Determinations of Eligibility and Finding of Effect AND memo from UDOT Region NEPA/NHPA Specialist and/or Architectural Historian stating a finding of No Adverse Effect or Adverse Effect.

Yes Have letters for Native American Consultation been sent? Attach letters.

No Have letters for federal and state agencies, CLGs, historical societies, etc. been sent? If so attach letters.

No Do the impacts to historic properties require mitigation?

If YES, a signed Memorandum of Agreement (MOA) is attached.

Comments: Native American consultation was initiated through letters sent to the Eastern Shoshone Tribe of the Wind River Reservation, Shoshone-Bannock Tribes, Northwestern Band of Shoshone Nation, Uintah and Ouray Ute Tribes, and the Skull Valley Band of Goshute Indians (sent September 7, 2018). In addition, notification was also sent to those tribes with whom UDOT has Section 106 Programmatic Agreements: Cedar Band of Paiutes, Shivwits Band of Paiute Indian Tribe, and the Confederated Tribes of the Goshute Reservation (sent September 7, 2018). To date, none of the tribes have responded to these notifications. See Appendix for Tier I Form.

6. Paleontological

No This project is one of the 16 types of projects listed in Stipulation III of the Memorandum of Understanding (MOU) with the Utah Geological Survey (UGS) that has no effect on paleontological resources and does not require notification to the UGS. If YES, a memo from the UDOT Region NEPA/NHPA Specialist is attached (can be included in the cultural memo).

For all other projects, the UGS has been notified and has responded with the following (attach UGS letter and memo from the UDOT Region NEPA/NHPA Specialist):

Yes There are no known paleontological localities in the area of potential effects and the formations in the project area have a low potential for containing fossil remains (Class 1 or 2).

No Fossil-bearing formations (Class 3-5) and/or known paleontological localities are present in the area of potential effects, but the UDOT Region NEPA/NHPA Specialist (or paleontologist) has determined that they will not be affected by the project.

No Fossil-bearing formations (Class 3-5) and/or known paleontological localities are present in the area of potential effects and may be affected by construction activities. A survey and/or monitoring by a qualified paleontologist is required.

Comments: See Appendix for UGS letter.

7. Threatened, Endangered, or Candidate Species

For Federally or State Funded Projects:

Yes Project will have “**no effect**” to T&E species, or their critical habitats, protected under the Endangered Species Act. If YES, attach “**no effect**” memo or review/comments (in the case of local government projects) from UDOT’s Wildlife Biologist.

No Project “**may affect, but is not likely to adversely affect**” T&E species, or their critical habitats, protected under the Endangered Species Act. If YES, attach BA and “concurrency” from the U.S. Fish and Wildlife Services (USFWS). List all mitigation/conservation measures.

No Project “**may affect, and is likely to adversely affect**” threatened and endangered species, or their critical habitats, protected under the Endangered Species Act. If YES, attach BA and USFWS BO. List all mitigation/conservation measures.

No The USFWS has issued a “**jeopardy**” opinion regarding this project. If YES, attach BA and BO as above. This project cannot go forward without being reconsidered.

Comments: See Appendix for Wildlife Biologist Memo.

8. Wildlife

No Project has the potential to affect state-sensitive species, important wildlife habitat, big game migration routes, habitat connectivity, migratory birds, or fish spawning habitat or fish passage.

Memo from UDOT Wildlife Biologist is attached.

Comments: See Appendix for Wildlife Biologist Clearance.

9. Invasive Species

If the project involves earthwork, grading or landscaping, there is potential to introduce or spread invasive weed species.

Yes Based upon location, this project has the potential to introduce or spread invasive species included on the noxious weed list of the State of Utah and the county noxious weed lists.

10. Noise

Projects that may affect noise levels to adjacent receptors include changes in roadway alignment, roadway widening and the addition of traffic lanes.

Yes This project has the potential to increase noise to adjacent receptors.

Yes A noise study is attached

Comments: This project is considered a Type I project that requires a Noise Study due to the construction of a new grade-separated interchange. The project would generally result in a 1.2 dBA noise level increase throughout the study area. Of the 157 receptors, 37 would be impacted by proposed action noise levels.

In accordance with the UDOT Noise Abatement Policy, noise walls have been recommended for construction within the project area and will require future balloting during the final design phase. See maps in Appendix for proposed noise walls and the complete Noise Study.

11. Wetlands, Water Resources, Storm Water, and Floodplains

Wetlands and Water Resources

- No** The project is a type that does not have the potential to affect or cross Waters of the United States. If YES, no concurrence letter is needed.
- No** Project affects waters of the United States (e.g. wetlands, mudflats, lakes, or perennial or ephemeral streams). If NO, have a UDOT Landscape Architect provide a concurrence letter stating they agree with the determination. In order to indicate "NO" on this question, answers to the following statements must also be "NO".
 - No** Project impacts perennial, intermittent, or ephemeral streams that have a riparian vegetation component. If YES, a Programmatic General Permit 40 (PGP40), also known as a Stream Alteration Permit, from the Utah Division of Water Rights will be required.
 - No** Project exceeds the impact limitations for streams or washes identified in the PGP40. If YES, both a PGP40 and a separate Department of the Army permit will be required.
 - No** Project impacts an ephemeral wash not captured under PGP40 that has an ordinary high water mark (OHWM) with a connected flow to a downstream Traditional Navigable Water and the impact below the OHWM exceeds 1/10 of an acre per crossing. If YES, a Department of the Army permit will be required.
 - No** Project impacts a perennial or intermittent stream below the OHWM less than 1/10 of an acre per crossing. If YES, notification to the U.S. Army Corps of Engineers will be required.
 - No** Project impacts navigable waters of the United States (Lake Powell, Flaming Gorge Reservoir, Bear Lake, Green River - mouth to 20 miles above Green River Station, Colorado River - mouth of Castle Creek to Cataract Canyon - 4.5 miles below mouth of Green River) below the OHWN. If YES, a Section 10 Department of the Army permit will be required.
 - No** Project impacts jurisdictional wetlands. If YES, a Department of Army Nationwide Permit (NWP) will be required for wetland impacts under the ½ acre threshold; a Letter of Permission (LOP) will be required for wetland impacts between 1/2 and 1 acre; an Individual Permit (IP) will be required for impacts greater than 1 acre.
 - No** Project impacts non-jurisdictional wetlands. If YES, wetland mitigation may still be required under the federal policy of "no net loss." Consult UDOT Environmental Section.

Storm Water Runoff

Yes Project disturbs 1 acre or more of ground surface.

If YES, a UPDES Storm Water Discharge Permit for Construction Activities is required from the Utah Division of Water Quality.

Floodplains

No This project requires new construction or alteration of existing structures within the FEMA designated 100-year flood plain.

If YES, a Development Permit is required from the local permit official.

Comments: See Appendix for Water Resource Clearance.

12. Hazardous Waste

No Has a visual inspection of the project area found substances that may be hazardous to human health and/or the environment?

Yes This project involves excavation beyond or below the existing roadway footprint.

If YES to either question 1 or 2, then site investigations and coordination with DEQ may be necessary.

Comments: A review of the Utah DEQ Interactive Map and EPA's EnviorMapper has identified the following properties within or near the project area (see Appendix for location maps):

- 3751 W. 12600 S. (Old Larco Excavating) 2 Underground Storage Tanks (UST) removed 1994
- 4091 W. 12600 S. (Tony Mascaro Livestock and Truck) 1 UST removed 1992
- 3751 W. 12600 S. (Intermountain Riverton Hospital) 2 active UST
- 3728 W. 12600 S. (Jackson's # 161) 4 active UST
- 12462 S. Creek Meadow Road (Lowe's); small generator of hazardous waste
- 12544 S. Pasture Road, Suite A (Red Hanger Cleaners #16); small generator of hazardous waste

With implementation of Standard Specification 01355, no impacts are anticipated.

13. Prime, Unique, Statewide, or Locally Important Farmland

Projects in areas whose land use maps indicate no current or future farming activities would not usually affect farmlands.

N/A This project MAY affect Prime, Unique, Statewide, or Locally Important Farmlands.

N/A The Natural Resource Conservation Service letter and Form AD1006 are attached.

14. Air Quality

Yes This project has the potential to increase particulate matter due to construction activities.

No This project adds or alters roadway capacity or will result in increased traffic volumes at signalized intersections.

If YES, the Air Quality Supplement is attached.

15. Relocations

Yes There may be relocations of residences or businesses as a result of this project.

Comments: This project anticipates acquisition of 3 parcels, totaling approximately 1.98 acres (86,209 sqft). These parcels are associated with one business relocation. See appendix for Impacted Parcel figure.

16. Land Use/Urban Policy

No This project may affect land use or urban policy.

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17. Section 4(f) Properties

- N/A** Section 4(f) properties are impacted.
- N/A** An Individual Section 4(f) Evaluation AND written concurrence from UDOT Environmental Services on the Individual Section 4(f) determination is attached.
- N/A** A Programmatic Section 4(f) Evaluation AND written concurrence from UDOT Environmental Services on the Programmatic Section 4(f) determination is attached.
- N/A** The 4(f) property(s) is an historic property and the impact is considered **de minimis**.
- N/A** SHPO has concurred in writing on UDOT's "**no adverse effect**" determination to historic properties and has been notified of the intent to make a **de minimis** finding. Attach letter to SHPO and **de minimis** agreement letter.
- N/A** The 4(f) property(s) is a park, recreational area, wildlife or waterfowl refuge and the impact is considered **de minimis**.
- N/A** The official(s) with jurisdiction have concurred, in writing, that the project will "**not adversely affect**" the activities, features, and attributes that qualify the resource for protection under Section 4(f) and have been notified of the intent to make the **de minimis** impact finding. Letters are attached.
- N/A** The project sponsor has provided public notice and opportunity for public review and comment. Describe public involvement efforts in the comments below.
- N/A** Written concurrence from UDOT Environmental Services is attached.

18. Other Environmental Factors Considered

This Project, except as noted and explained in attachments, will have no disproportionate, serious or lasting effect on the following:

- No** Visual
- No** Social/Economic
- No** Title VI and/or Environmental Justice
- No** Natural Resources
- No** Construction
- No** Energy
- No** Geology/Soils
- No** Wild/Scenic Rivers
- No** Ecology

19. Conclusion

- No** This project may have substantial controversy or significant impacts.

MITIGATION COMMITMENTS

CONSTRUCTION		Responsible
Air Quality	Requirements outlined in Standard Specification 01572 titled "Dust Control and Watering" will be followed.	Contractor
Cultural	UDOT Standard Spec 01355, Parts 3.7 and 3.8	Contractor
Hazardous Waste	If hazardous materials are encountered, the contractor will follow UDOT Standard Specification 01355 regarding the treatment and disposal of hazardous materials.	Contractor
Invasive Species	Follow UDOT Special Provision Section 02924S NOXIOUS WEED CONTROL requirements before construction by cleaning all earthmoving construction equipment before mobilizing onto the project site and avoiding unnecessary earth disturbance.	Contractor
Water Quality	Comply with conditions identified within the Utah State Stream Alteration Permit (if applicable).	Contractor
Water Quality	Comply with all General and Special Conditions identified within the USACE Nationwide Permit (if applicable).	Contractor
Water Quality	Implement and maintain the project SWPPP, in accordance with the UCGP, throughout the construction of the project.	Contractor
Visual	Reclaim all disturbed areas per UDOT standard specifications.	Contractor
PRELIMINARY ENGINEERING		Responsible
Invasive Species	Include UDOT Special Provision Section 02924S NOXIOUS WEED CONTROL in the contract documents to require earthmoving construction equipment be properly cleaned before mobilizing onto the project site.	UDOT Program Management
Relocations	Property owners will be compensated according to the requirements of the Uniform Relocation Assistance and Real Property Acquisition Policies Act, as amended.	UDOT Right-of-Way
Water Quality	If the project proposes to impact Midas Creek, apply for and obtain a Utah State Stream Alteration Permit from the Utah Division of Water Rights. Include permit into contract documents.	UDOT Program Management

PRELIMINARY ENGINEERING**Responsible**

Water Quality	If the project proposes to impact wetlands associated with Midas Creek, apply for and obtain a Nationwide Permit for the USACE, based on impacts to WoUS. Include permit into contract documents.	UDOT Program Management
Noise	As part of the final design phase, conduct noise wall balloting consistent with the procedures described in UDOT's Noise Abatement Policy.	UDOT Program Management

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