South Bridge Update – July 11, 2024

Ryan Gordon, PE; City Engineer

CITY OF GLENWOOD SPRINGS COLORADO

South Bridge Update – History

- Why build South Bridge?
  - Critical Evacuation Route
  - Provide Key Link in the Transportation Network
  - Create Connection to Rio Grande Trail
  - Reduce Greenhouse Gas Emissions, Travel Times, Reduced Congestion

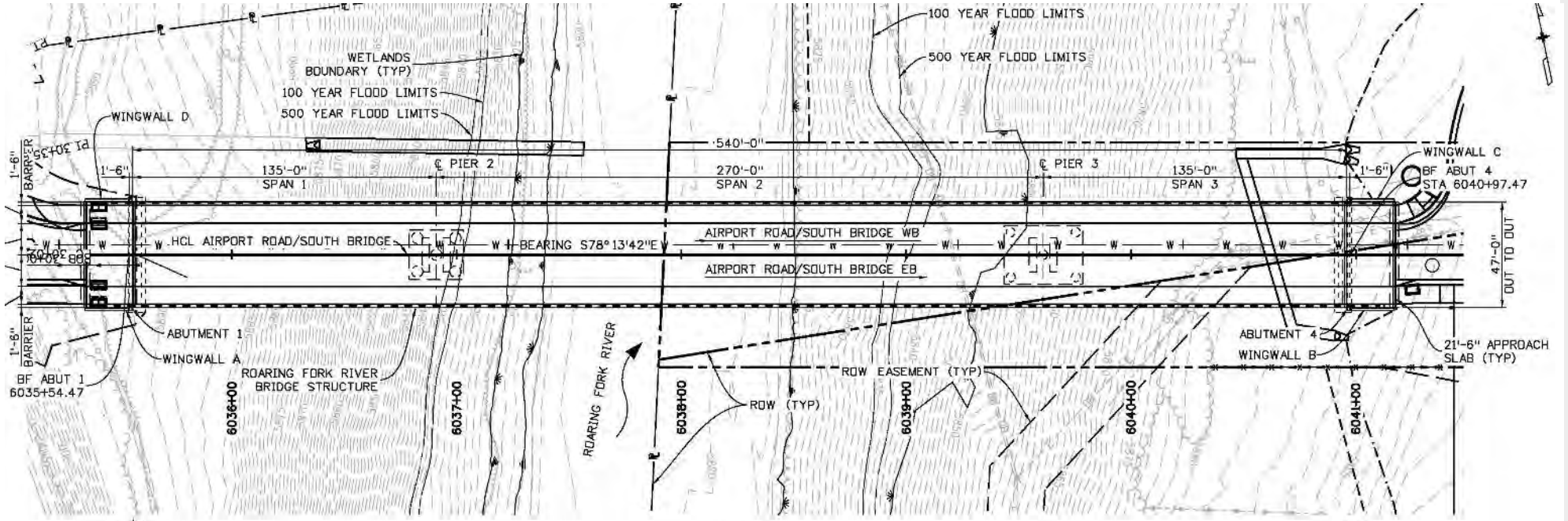
CITY OF GLENWOOD SPRINGS COLORADO

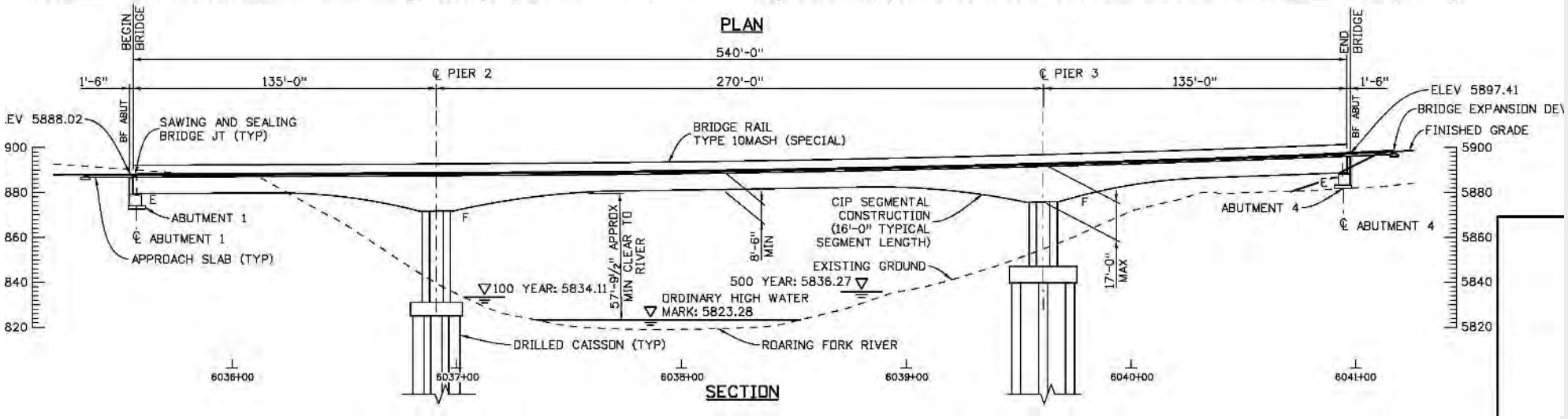
South Bridge Update – Recent Changes

- Significant Design Changes
  - Bridge Type
  - Alignment at Airport
  - Elevations/Grades East of the Roaring Fork River
  - Modify Shared-Use Path
  - Potential Changes to City Roadway Elements
- No changes to the RFTA/Rio Grande Corridor or SH82

CITY OF GLENWOOD SPRINGS COLORADO

South Bridge Update – Bridge Type – Concrete Segmented Bridge Layout (Current design)

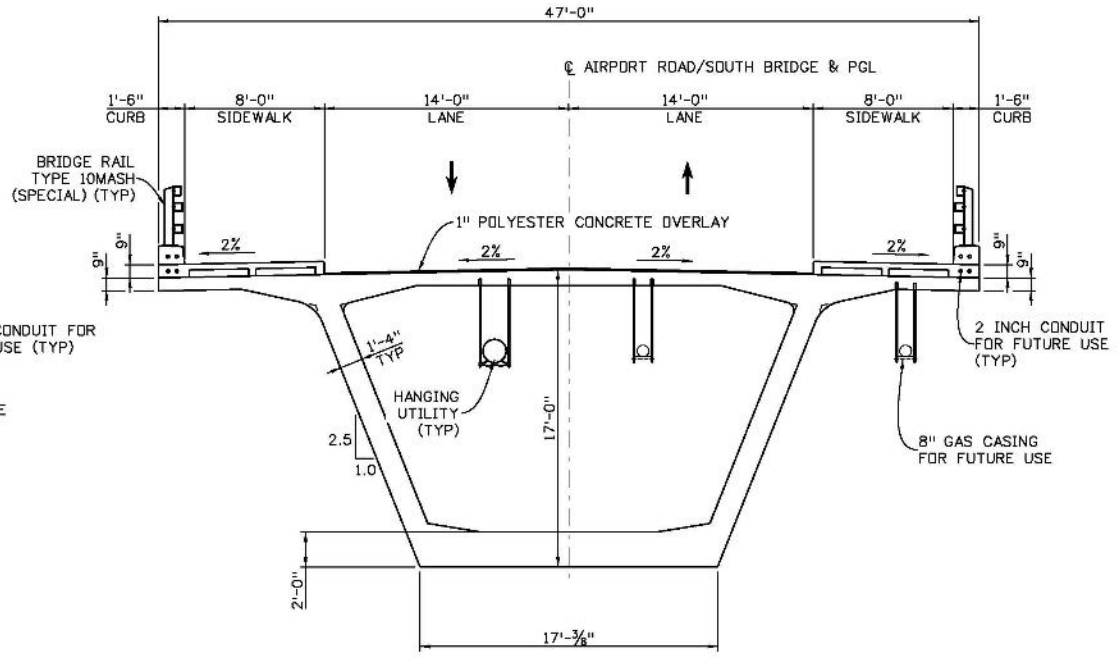




CITY OF GLENWOOD SPRINGS COLORADO

South Bridge Update – Bridge Type – Concrete Segmented Bridge Cross Section (Current design)

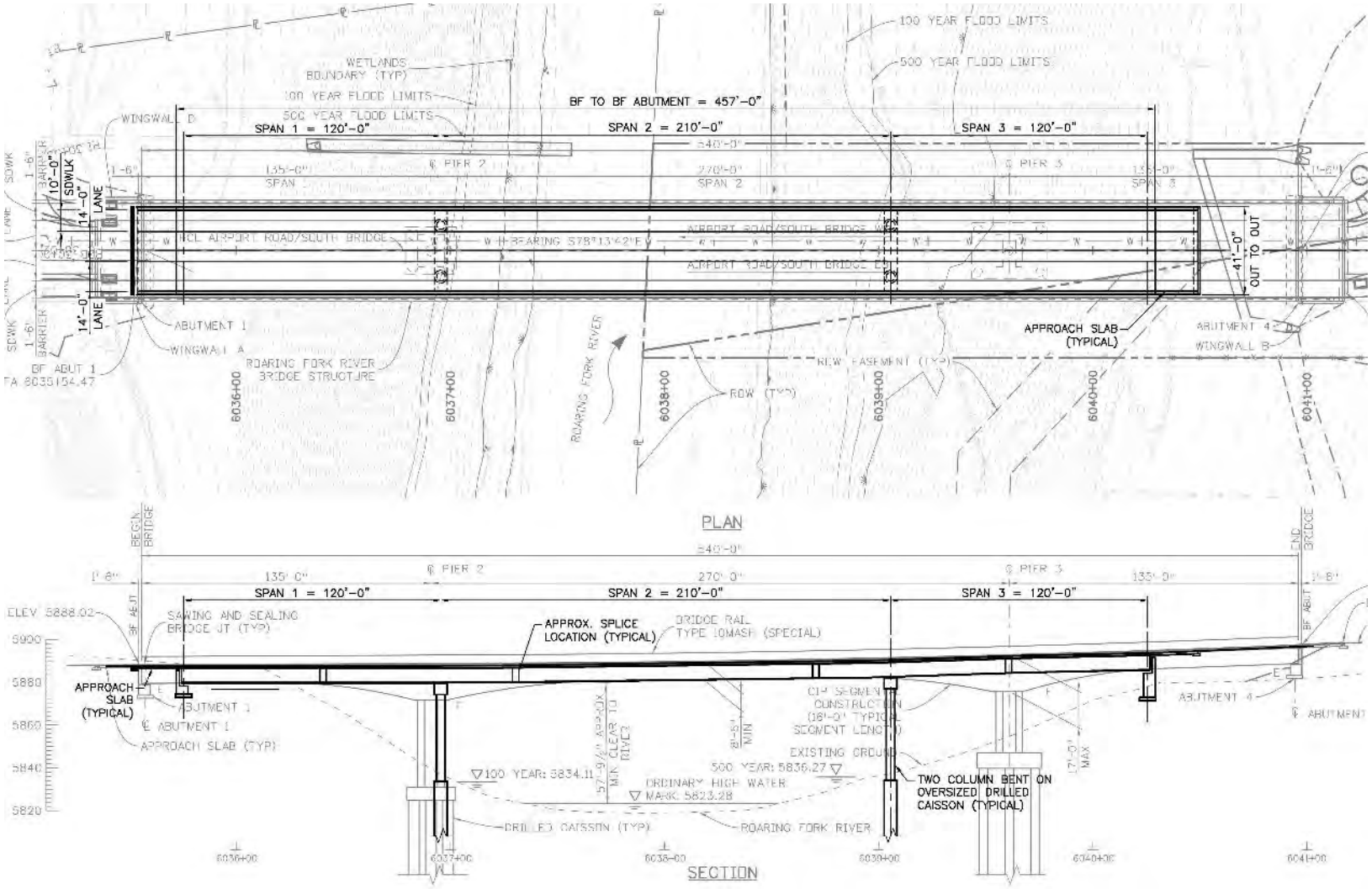
TYPICAL SECTION
LOOKING AHEAD STATON
(SYMMETRIC ABOUT ℄ UNLESS NOTED)



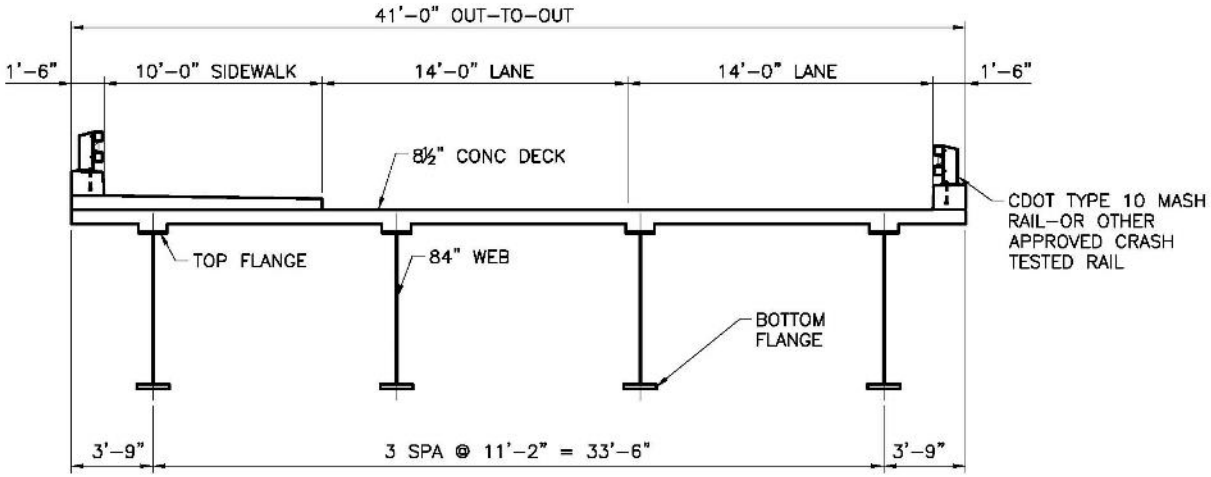
TYPICAL SECTION OVER PIER
LOOKING AHEAD STATION
(SYMMETRIC ABOUT ℄ UNLESS NOTED)

CITY OF GLENWOOD SPRINGS COLORADO

South Bridge Update – Bridge Type – Steel Girder Layout

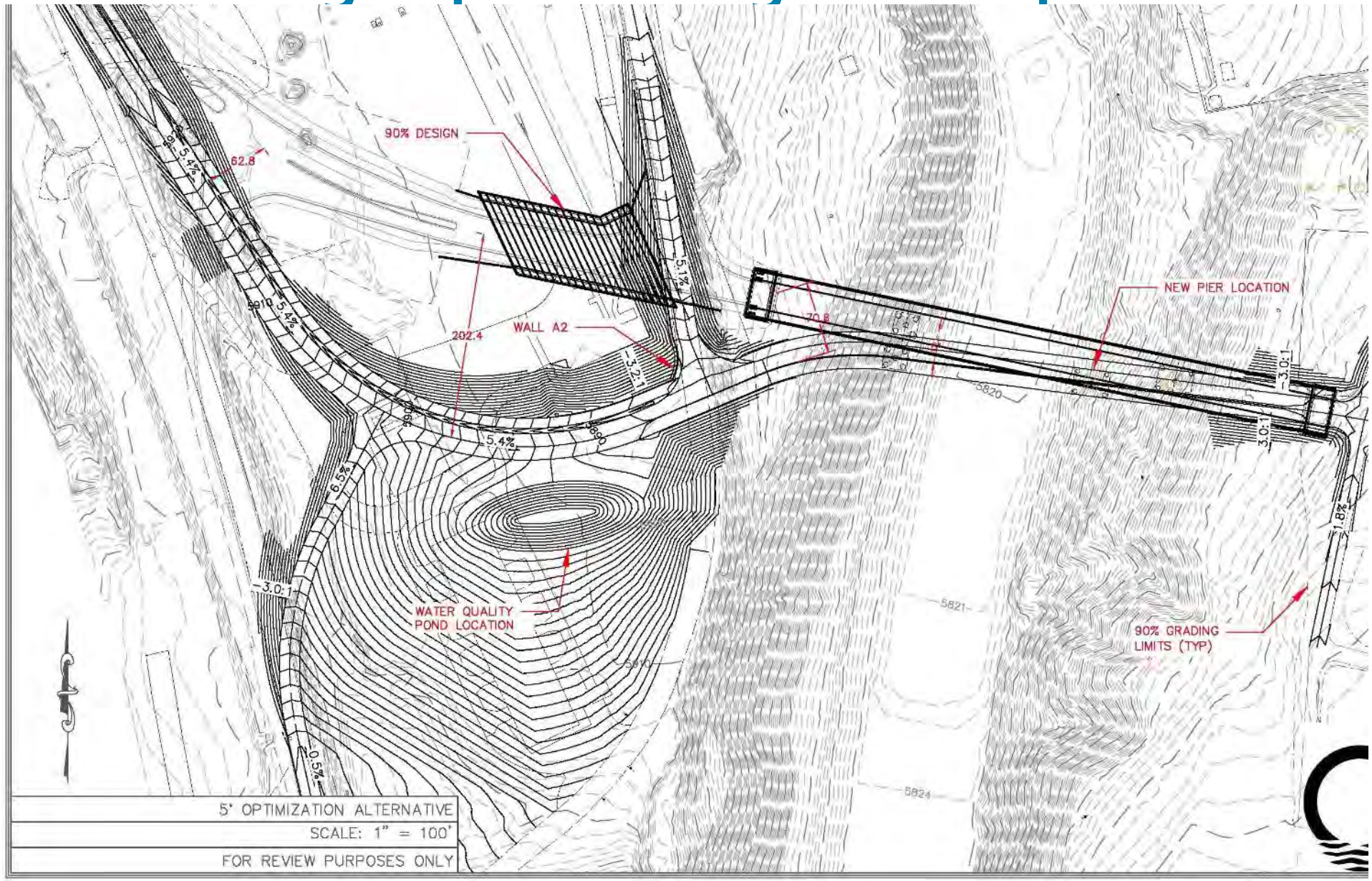


South Bridge Update – Bridge Type – Steel Girder Cross Section



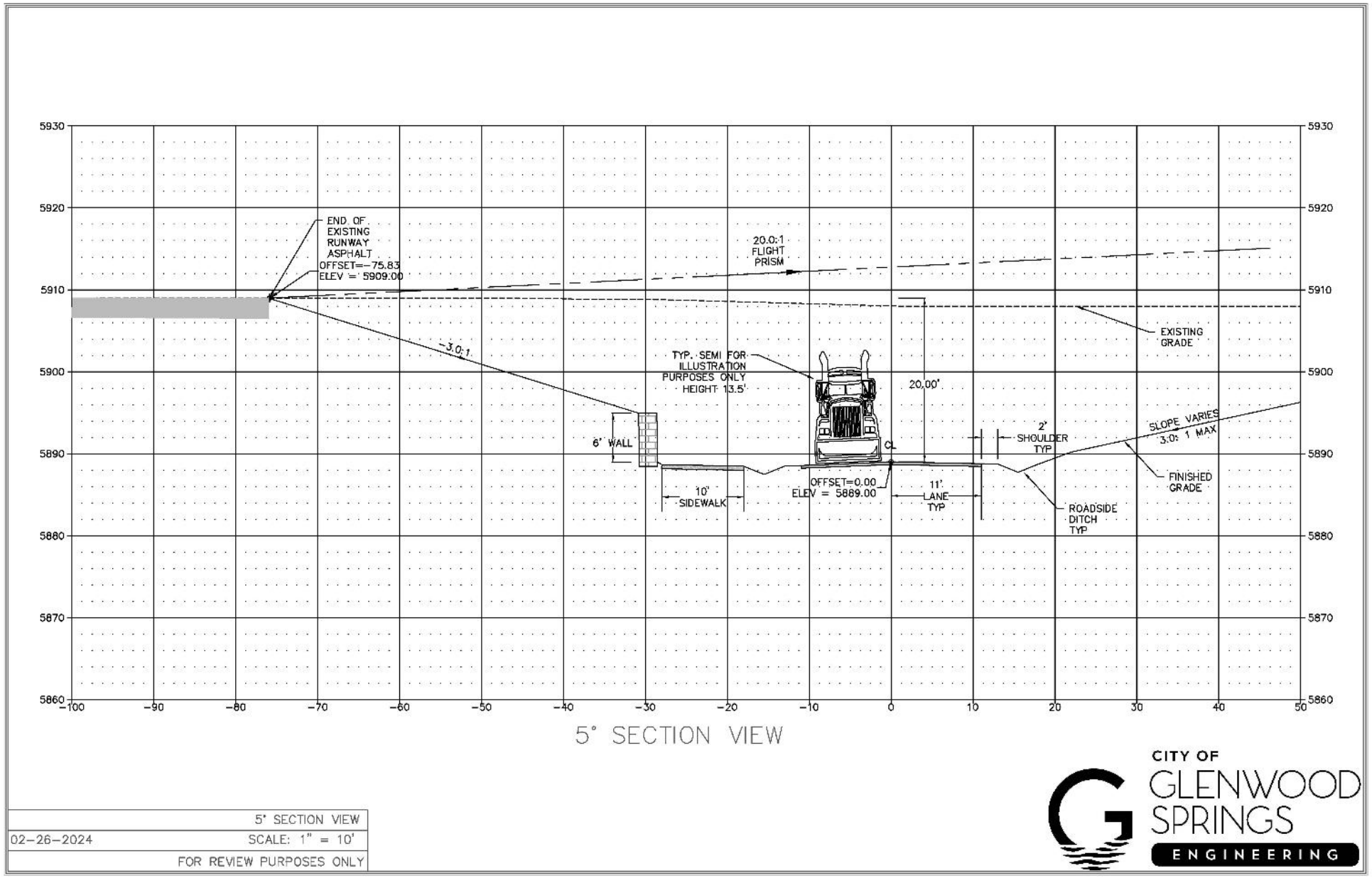
TYPICAL SECTION – STEEL GIRDER

South Bridge Update – Alignment Optimization

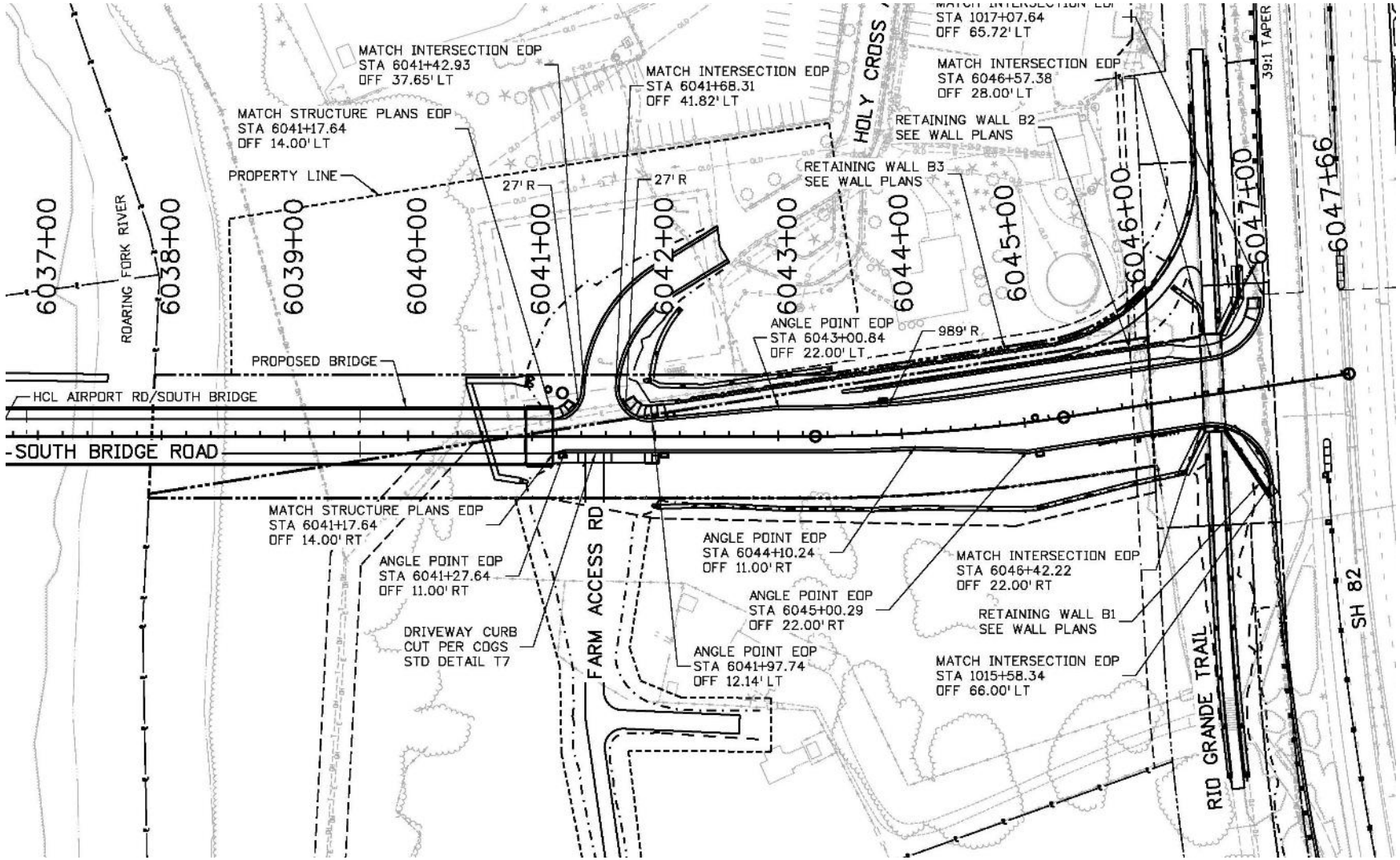


CITY OF GLENWOOD SPRINGS COLORADO

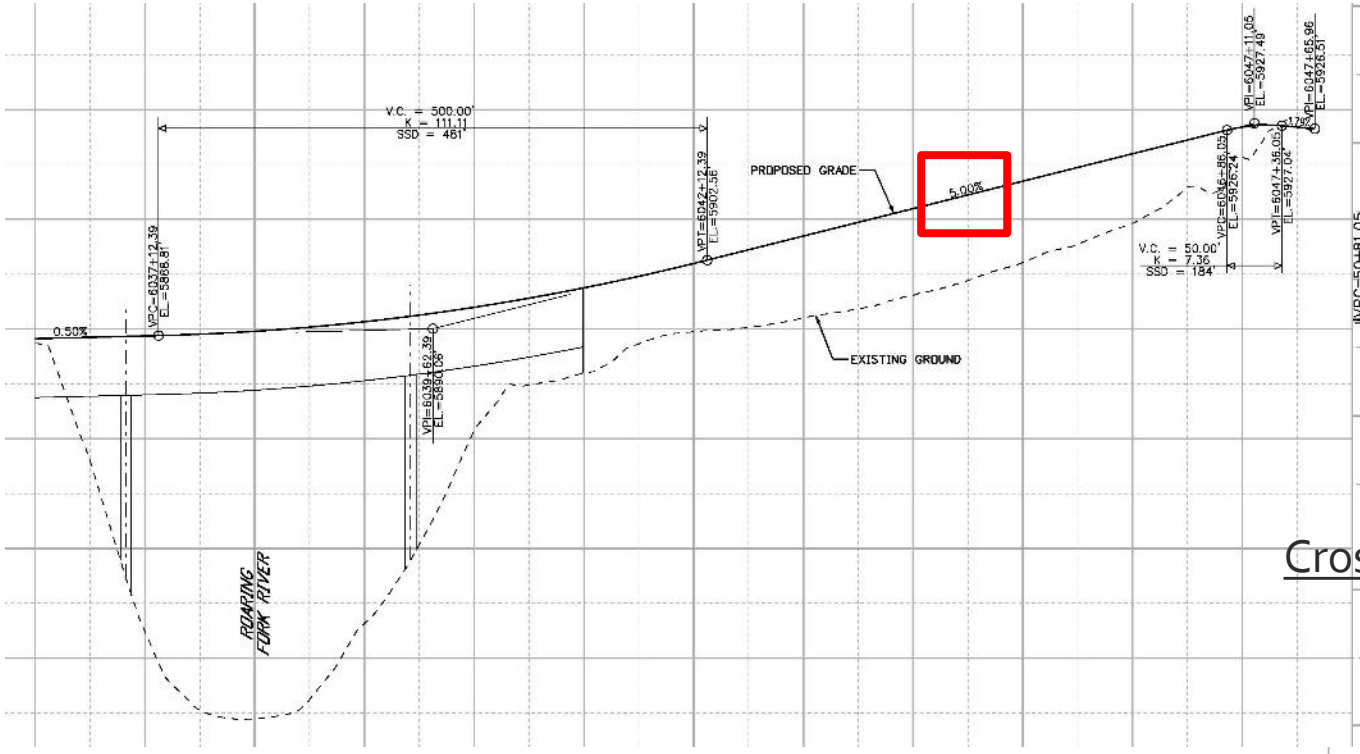
South Bridge Update – Alignment Optimization



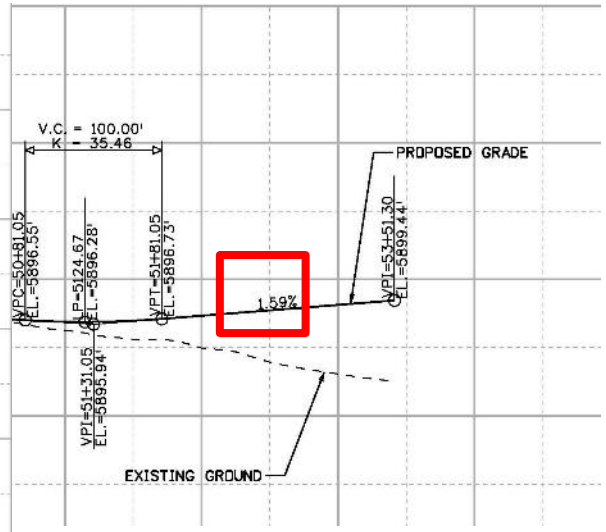
South Bridge Update – Bridge/South Bridge Road Height



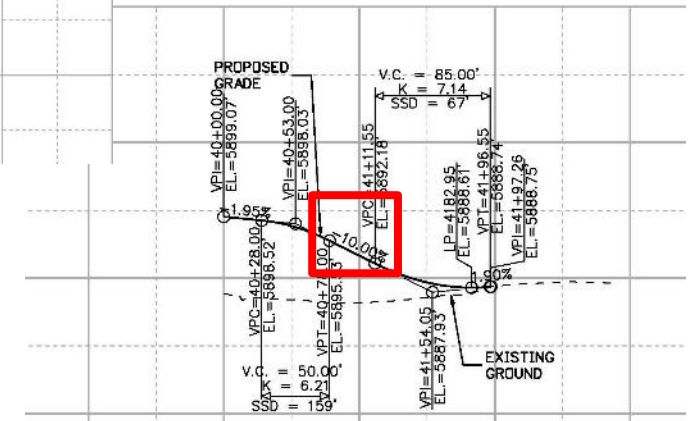
South Bridge Update – Bridge/South Bridge Road Height



Cross Section: South Bridge Road

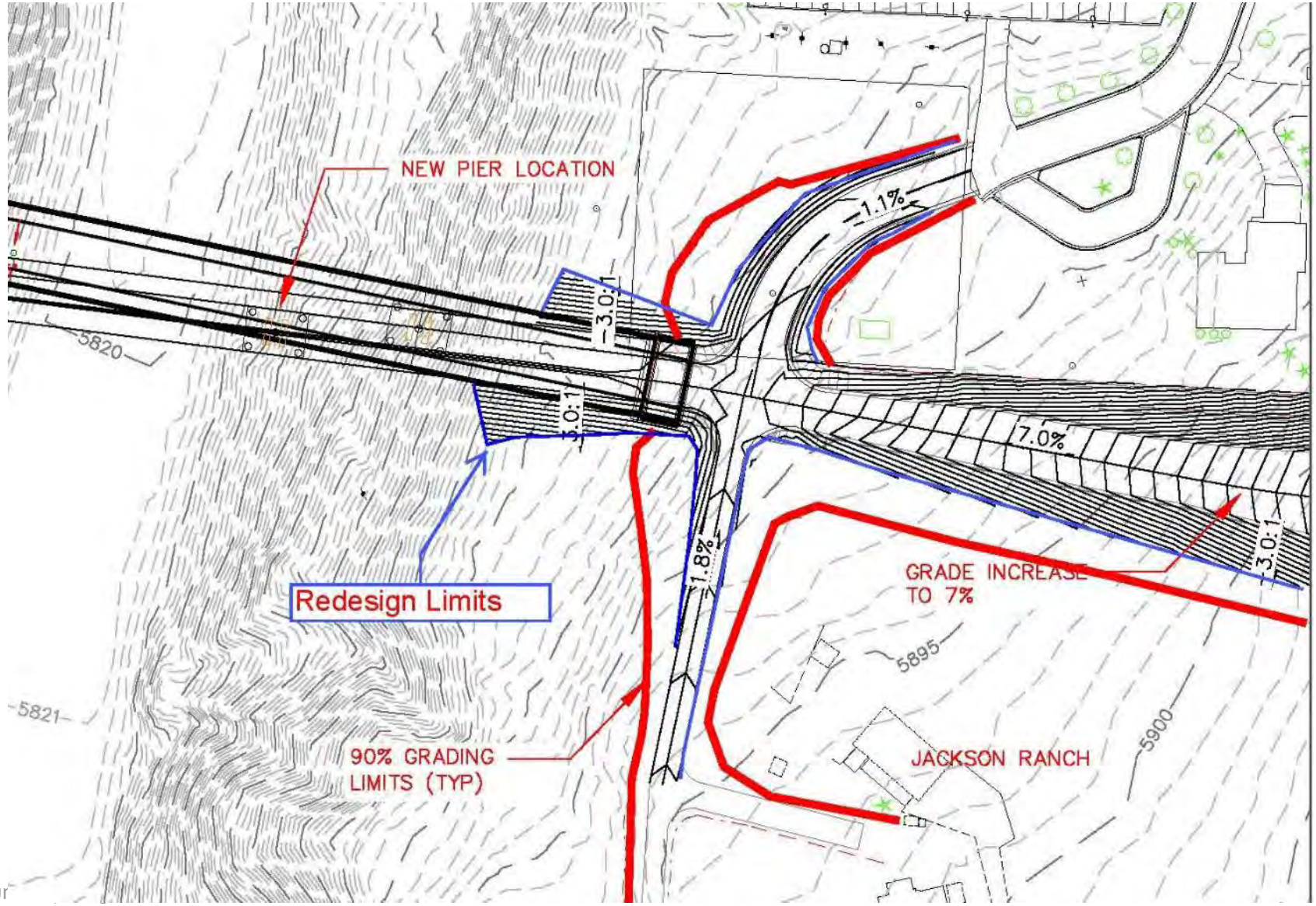


Cross Section: Jackson Ranch



Cross Section: Holy Cross

South Bridge Update – Bridge/South Bridge Road Height



South Bridge Update – Sidewalk/Pedestrian and Biking Connectivity

- Delete 8-foot sidewalk on south side
- Increase north side sidewalk from 8 foot to 10 foot
- Provide pedestrian crossing at key intersections (CR 163, Coke Ovens, Cardiff Mesa Condos)
- Sidewalk to be provided from Park East to bridge

CITY OF GLENWOOD SPRINGS COLORADO

South Bridge Update – Roadway Elements

- Start project after Cardiff Mesa Condos
  - Airport Road was improved when Cardiff Mesa built
  - Extend sidewalk from Cardiff Glen
- Eliminate medians
- Possibly Eliminate roundabout at Morgan St/Airport Road
- Eliminate of irrigation and landscaping
- Reduction of tunnel width & bridge width

CITY OF GLENWOOD SPRINGS COLORADO

South Bridge Update – Roadway Elements

- Traffic calming will be included in project
  - Roundabout at Morgan St/Airport Rd
  - Raised crosswalks
  - Curves/speed limit
  - Medians
  - Other elements/concepts

CITY OF GLENWOOD SPRINGS COLORADO

South Bridge Update – Costs

- 2026 Construction cost: **$105M** (assume 7% inflate per year)
- Potential reduction of costs (bridge, road elevation, utilities, roadway elements): $19.5M - $23M
- Potential reduction of costs (tunnel, retaining walls): $6M-$7M
  - Includes additional cost to relocate hangar and airport maintenance facility
- Potential revised 2026 construction costs: **$74M - $79M**
- Potential Design fees: ~$1M-$2M
- Potential ROW costs:~$7M-9M
- Revised Project Total: **$83.5M - $90.5M**

CITY OF GLENWOOD SPRINGS COLORADO

South Bridge Update – Funding

Grants				
Old Earmark 80% Federal Funds	$357,416			
Old Earmark 20% Local Matching Funds	$89,354			
	$446,770			
New Earmark 82.79% Federal Funds	$1,000,000			
Old Earmark 17.21% Local Matching Funds	$207,875			
	$1,207,875			
Rural Surface Transportation Grant 80% Federal Funds	$49,682,927			
Rural Surface Transportation Grant 20% Local Match	$12,420,732	←	Min local match	
	$62,103,659			
Fiscal Year 2024 THUD Funds	$1,400,000			
RTFA 2040	$4,000,000			
Total Funds	**$69,158,304**			

CITY OF GLENWOOD SPRINGS COLORADO

South Bridge Update – Schedule

- Redesign, Environmental Assessment, ROW Completed by August/September 2025
- Bid Project September/October 2025
- Construction Start January 2026
- Construction Complete Spring 2028

CITY OF GLENWOOD SPRINGS COLORADO

South Bridge Update – Questions

- Questions/Comments