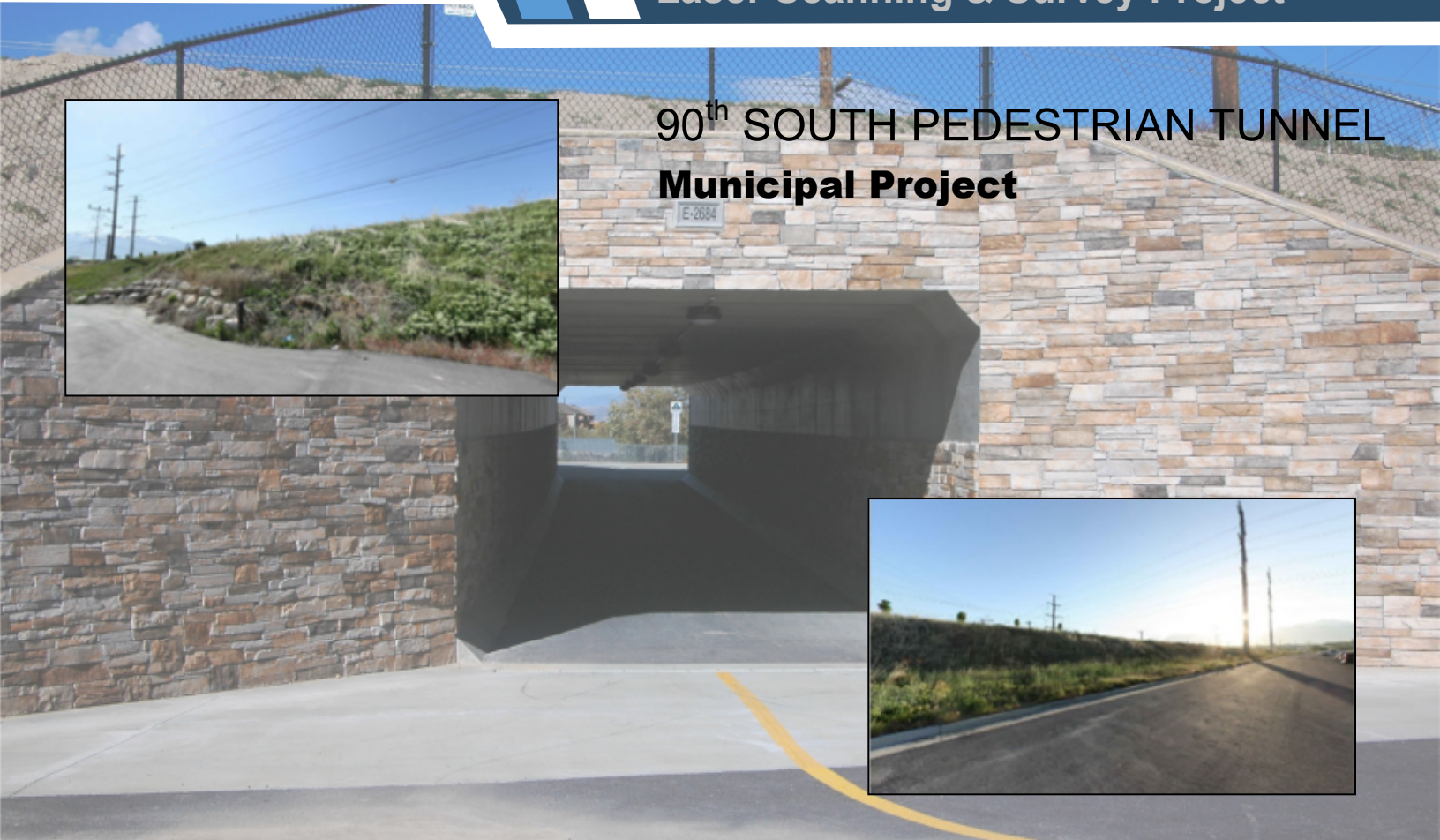




## Laser Scanning & Survey Project

### 90<sup>th</sup> SOUTH PEDESTRIAN TUNNEL Municipal Project



#### PROJECT DESCRIPTION:

- ◆ In response to a need expressed by the Jordan River Commission in 2013 the Utah Legislature awarded West Jordan City funds to design and construct a pedestrian/equestrian tunnel under 90<sup>th</sup> South, one of the busiest arterial roads in Salt Lake County. Two major factors faced McNeil Engineering as we tackled the preparation of design documents for West Jordan – high-density high-speed traffic, and the city's need to rapidly complete the design.
- ◆ McNeil utilized laser scanning technology to facilitate the rapid acquisition of precise topographic information and utility locations. The field work was completed in one 4-hour session by a 1-person crew. No equipment set-ups were located on the road pavement – it simply wasn't necessary using laser scanning procedures. The office data computations were finished in only three days, and a full set of digital data was immediately available to the design team.
- ◆ Using AutoCAD software the engineers produced a detailed topo map along with cross-sections for preliminary design reviews. A workable design was available for review with the city representatives and others within a month-or-so.
- ◆ This project clearly demonstrated the safety, speed, accuracy of details, and output of digital information from laser scanning for an amazingly economical price. Laser scanning technology puts the site information – all of it – on the desk of the client and/or the design team.



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