

Projects First-Round Winner
Innovations Challenge

April 2016
Prepared by Transportation Planning
Missouri Department of Transportation

ADA Streamlining

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION																				
SUMMARY OF QUANTITIES																				
TRUNCATED DOMES, CURB RAMP, SIDEWALK, TYPE 1 AGGREGATE, ADA LINEAR GRADING, KENTUCKY BLUEGRASS SODDING, CURBS																				
HEET	STATION	STATION	LOCATION	TRUNC. DOMES RT	CURB RAMP	SIDEWALK											S-CURB			REMARKS
						S.W. WIDTH	* PAY WIDTH	4" THICK	4" THRU	4" STOP	4" PASS	INTEGRAL AREA	8" CURB	8" THICK	8" SIDEWALK	MODIFIED TYPE 1	ADA L. LINEAR	ADA SOD	LESS/EO (1'-6")	
SF	LENGTH	WIDTH	TYPE	SY	LF	LF	SY	SY	SY	SY	*	SY	SY	SY	LF	SY	LF	LF	LF	

Description

ADA improvement projects are time consuming and generally have a high engineering cost. Construction of ADA is like a design-build for retrofit situations. Design can provide a general concept but a lot of the work is done in the field to get it to fit and be compliant. A standard ADA Library of typical scenarios and traffic control options was developed. These sheets are inserted into each ADA project. A single quantity sheet combines what used to be nine individual tables into one summary table. This sheet streamlines quantity data entry eliminating duplicate data entry, and uses formulas for quick and precise calculation. Aerial images are used instead of a complete survey of the entire length of the project. Survey is only called upon for utility locates and if there is a special scenario location on the project that may need detailed survey data. This ADA Streamlining Library could be implemented across the state saving numerous hours of labor.

Benefit

ADA Streamlining is designed to save numerous hours of work time. This includes work time for both design and survey staffs. The concept dramatically condenses the time it takes to calculate quantities and create plans for all ADA improvement projects. Construction receives a higher quality endproduct, there is more consistency and communication is improved. Using aerial images for the plan sheets saves the designer multiple weeks of drawing, labeling, and calculating and condenses the size of a set of plans.

Materials and Labor

None.

For More Information Contact:

Sharon Needham at sharon.needham@modot.mo.gov or (417) 829-8022.

Additional photos can be seen by accessing the Innovations Challenge SharePoint page at: <http://sharepoint/systemdelivery/TP/Documents/InnovationsChallenge.aspx>.