

CITY OF LOGAN 1400 NORTH 600 WEST INTERSECTION & ROADWAY CAPACITY IMPROVEMENT


Council of Governments 2018- Road Project Application
City of Logan
Tom Dickinson- Project Manager

1400 NORTH 600 WEST INTERSECTION & CAPACITY IMPROVEMENT

- Location
- Need
- COG Eligibility
- Description
- Right-of-Way
- History
- Financial Estimates
- Q&A




1400 NORTH 600 WEST INTERSECTION & CAPACITY IMPROVEMENT- location



PROJECT AREA

- Utah State University
- Bridgerland Technology College
- Cache County Bus Depot
- Cache Valley Mall
- Walmart
- Intermountain Health Care

1400 NORTH 600 WEST INTERSECTION & CAPACITY IMPROVEMENT- need




Present
4-Way stop (E/W)
LOS D/F

Intersection ID	Intersection	AM Peak hour		PM Peak hour	
		Average Control Delay [sec/veh]	Level of Service	Average Control Delay [sec/veh]	Level of Service
Existing Peak Hour Conditions					
1	2200 N./Main St.	40.0	B	15.1	B
2	1950 N./Main St.	45.3	B	125.8	F
3	1800 N./Main St.	13.0	B	18.2	B
4	2200 N./2000 W.	8.7	A	11.1	A
5	1950 N./2000 W.	9.3	A	9.5	A
6	1800 N./2000 W.	11.8	B	21.2	C
7	1600 N./400 W.	11.2	B	12.0	B
8	1400 N./600 W.	28.8	B	28.8	F
9	1400 N./600 W.	28.8	D	105.6	F

Traffic Impact Study- June 2016
Horrocks Engineers

1400 NORTH 600 WEST INTERSECTION & CAPACITY IMPROVEMENT- COG eligibility




Proposed Roadway Functional Classification
City of Logan Surface Transportation Master Plan 2011

New roads (or new road segments) or existing local roads can be eligible (even if they are not shown in the MDOT system) for COG funds, if they are included in the local jurisdiction's transportation master plan and are shown as an arterial or collector road. The roadway design submitted as part of the COG application must also demonstrate that it will be constructed consistent with a collector or arterial roadway configuration. These roads must be shown on the master plan with "logical termini" to other similar classified roads.

Proposed Roadway Connections
 - Main Arterial
 - Minor Arterial
 - Local
 - Collector
 - Local
 - Collector
 - Local
 - Collector

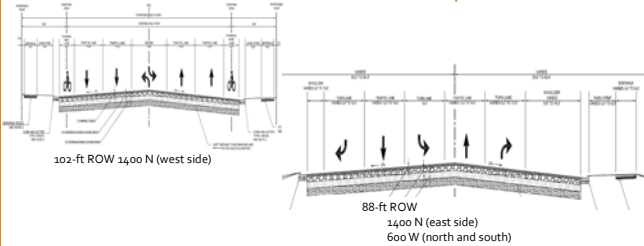
Proposed Functional Class
 - Main Arterial
 - Minor Arterial
 - Local
 - Collector
 - Local
 - Collector

1400 NORTH 600 WEST INTERSECTION & CAPACITY IMPROVEMENT- description



- Signalize Intersection
- Rail Crossing
- Widening for Capacity

1400 NORTH 600 WEST INTERSECTION & CAPACITY IMPROVEMENT- description



1400 NORTH 600 WEST INTERSECTION & CAPACITY IMPROVEMENT- ROW



Intersection Right-of-Way
ROW already secured on several properties
In-Kind exchange with BTC
Remaining ROW will be purchased
Eligible ROW Estimate:
\$100,000

1400 NORTH 600 WEST INTERSECTION & CAPACITY IMPROVEMENT- history

MEMORANDUM UTAH DEPARTMENT OF TRANSPORTATION

DATE: October 7, 2003

TO: Darin Duersch, P.E.
Region One Traffic Engineer

FROM: Richard Clarke, P.E. *R. Clarke*
Traffic and Safety Design Engineer

SUBJECT: Signal Study for Intersection at 600 West & 1400 North, Logan
Study # 1-181-03

1400 NORTH 600 WEST INTERSECTION & CAPACITY IMPROVEMENT- history

The City of Logan is submitting this as a spot improvement. I have provided the anticipated complete cost for this traffic signal, however, Logan is only asking for \$200,000 of which we will pay \$1,800,000 in match.

Total: \$1,900,000
Local Match: \$1,700,000
PE: \$0
ROW: \$100,000
Construction: \$100,000

•2014 COG Award- Spot Improvement
•\$200,000

1400 NORTH 600 WEST INTERSECTION & CAPACITY IMPROVEMENT- financial estimates

TOTAL PROJECT COST (NOT INCLUDING BETTERMENTS)	\$4,344,347	INELIGIBLE BETTERMENTS	\$1,420,418
COG REQUESTED AMOUNT	\$2,500,000	TOTAL PROJECT COST	\$5,764,765
COG 2014 AWARD	\$200,000		
CITY MATCH (COG ELIGIBLE ITEMS ONLY)	\$1,664,347		
PERCENT MATCH	37.9%		

Cost share benefit
37.9% City match

1400 NORTH 600 WEST INTERSECTION & CAPACITY IMPROVEMENT

QUESTIONS?