12th St. and Sawmill Rd. Intersection Geometric Improvements

12th St. and Mountain Rd. Intersection Northbound and Southbound Left-turn Improvement.
Purpose of the Project

Improve the geometry of the 12th St. and Sawmill Rd. intersection.

- Reduce the number of southbound vehicles turning right onto Sawmill Rd. from 12th St.
- Improve parking and complete the sidewalks on the west leg of Sawmill Rd.
Project Location, 12th St. and Sawmill Rd.
OPTION 2
LANE DROP WITH CURB EXTENSION

A-A TYPICAL SECTION

CARS PARK IN THE PARKING LOT ON THE SIDEWALK

WHITE SOLID LINE

CURB EXTENSION

NORTHEAST CORNER IS GOOD FOR PASSENGER/SU RIGHT-TURN MOVEMENT

NORTHWEST CORNER IS GOOD FOR PASSENGER/SU RIGHT-TURN MOVEMENT

3 FT SPACE FOR DRAINAGE

LOADING DOCK

REMOVE MEDIAN DOUBLE YELLOW LINE CONTINUE TO INTERSECTION

REMOVE MEDIAN

W - 15 FT
L (TAPER LENGTH) = W/60 = 270 FT

5 (POSTED SPEED) = 30 MPH

September 20, 2016   page 5 of 16
Option 3, Lane Drop with delineators

OPTION 3
LANE DROP WITHOUT CURB EXTENSION

A-A TYPICAL SECTION

CARS PARK IN THE PARKING LOT ON THE SIDEWALK

LANE CLOSURE STRIPING
WHITE LINE STRIPING

NORTHWEST CORNER IS GOOD FOR PASSENGER/BU
RIGHT TURN MOVEMENT

NORTHEAST CORNER IS GOOD FOR PASSENGER/BU
RIGHT TURN MOVEMENT

REMOVAL OF
S: (POSTED SPEED) = 50 MPH
W = 18 FT
L: (TAPER LENGTH) = W x 1.5 = 27.0 FT

SEPTEMBER 20, 2016    PAGE 6 OF 16
OPTION 4
LANE CLOSURE WITH CURB EXTENSION

THE CORNER IS GOOD FOR PASSENGER/SU/WB-50 TURN MOVEMENTS
SIGN RELOCATE
CURB EXTENSION
PERMANENT SOLID WHITE LINE

RIGHT TURN ONLY LANE
WHITE SOLID LINE

BELLAMAH AVE., N.W.

A-A TYPICAL SECTION

12 FT
15
12
125
18

GOVERNOR
12 FT LANE CLOSURE
12 FT LANE CLOSURE
MEDIAN LANE
MEDIAN LANE

CURB AND GUTTER

NORTHWEST CORNER IS GOOD FOR PASSENGER/SU/WB-50 RIGHT-TURN MOVEMENT
CURB EXTENSION
3 FT SPACE FOR DRAINAGE

September 20, 2016 page 7 of 16
Project Location, 12th and Mountain

Mountain Rd.

12th St.
Purpose of the Project

Improve traffic signal operation for the 12th St. and Mountain Rd. intersection

- Reduce delay due to northbound and southbound left-turns
12th St. and Mountain Rd. Traffic

- Traffic Signal Cycle Length: 48 seconds
- Current Level of Service: B
- Future (year 2040)
  - C in AM
  - B in PM
- Queue Length: approximately 13 vehicles
Split Phase Timing on 12th St.

- Traffic Signal Cycle Length: **90 seconds**
- Level of Service, Year 2016:
  - D in AM
  - E in PM
- Queue Length 12th St.: shorter than conventional traffic signal timing
- Queue Length increase on Mountain Rd.
Possible 12th St. and Mountain Rd. Geometric Improvements
12th St. and Mountain Rd. Geometric Improvements
Thank you

- **Contact:**
  
  HDR Inc.
  2155 Louisiana Blvd NE
  Suite 9500
  Albuquerque, NM 87107

  505-830-5400

  Matthew.grush@hdrinc.com