

## 1.0 Introduction

### Study Area

The Summit 18 Corridor Study Area is bounded to the West by Medina Line Rd and to the East by Springside Dr. The study area also includes the portion of I-77 from the SR 18 to SR 21 including the cloverleaf interchange at SR 18 and the full directional interchange at SR 21 to the South. Locations with existing traffic signals along the SR 18 corridor include intersections with Medina Line Rd, South Hametown Rd, Heritage Woods Dr, Montrose West Ave/Crystal Lake Rd and Springside Dr. Unsignalized intersections of importance within the study area include Harmony Hills Dr, Creek Run Dr, North Hametown Rd, Scenic View Dr and Rothrock Rd.



Study Area Map

## Goals and Objectives

The following four goals and objectives were identified for the Summit 18 Corridor Study:

1. **Reduce congestion** along SR 18, SR 21 and I-77 in the study area
2. **Improve safety** along SR 18, SR 21, and I-77 in the study area
3. **Improve drainage** along the SR 18 Corridor in the study area
4. **Address access concerns** along SR 18 when considering the location, quantity and type of local access to be provided along SR 18

**Goals and Objectives**



### Goal 1. Reduce congestion along SR 18, SR 21 and I-77 in the study area

a. Improve traffic operations

*Measures: Level of Service, Vehicle Hours Traveled, Mainline Delay, Side Street Delay and User Benefits*

- i. Increase Intersection capacity where needed
- ii. Increase mid-block capacity where required
- iii. Weaving areas
- iv. Ramps



### Goal 2. Improve safety along SR 18, SR 21, and I-77 in the study area

a. Reduce crashes along SR 18, SR 21, and I-77 in the study area

*Measure: Crash Rate per Million Vehicle Miles Traveled*

- i. Intersection
- ii. Mid-block
- iii. Weaving Areas
- iv. Ramps



b. Improve substandard roadway geometrics where feasible and practical along SR 18, SR 21, and I-77 in the study area

*Measure: Number of substandard geometrics as per ODOT Design Standards*

- i. Intersection design
- ii. Ramp terminals
- iii. Weaves
- iv. Other



### Goal 3. Improve drainage along the SR 18 Corridor in the study area

a. Ensure that function and responsive drainage solutions are included in future transportation improvements identified for the study area

*Measure: Quality of drainage improvements as per ODOT Design Standards*

b. Ensure that drainage improvements maintain or provide better water quality runoff and do not increase peak flows into local streams and tributaries

*Measure: Number of detention/retention facilities and structures*



### Goal 4. Address access concerns along SR 18 when considering the location, quantity and type of local access to be provided along SR 18

a. Identify appropriate access points to SR 18 that benefit traffic flow and safety on SR 18

*Measure: Number of Driveways*



**BURGESS & NIPLÉ**