# **Rezoning Transportation Analysis**

**Petition Number** 2016-055 **Updated** 4/25/2016

**Location** Approximately 2.52 acres located on the west side of Prosperity Church

Road between Johnston Oehler Road and Interstate 485.

Staff Resource Rick Grochoske rgrochoske@charlottenc.gov 704.432.155

CDOT's Review of this rezoning petition is intended to ensure consistency with the Transportation Action Plan (TAP). The TAP seeks to ensure that Charlotte's transportation network supports current and future land uses and includes streets that provide safe and comfortable mobility for motorists, pedestrians, bicyclists, and transit users.

This document is primarily for communication to Planning Department staff to be used in the overall City staff analysis of the rezoning petition and includes information on trip generation, outstanding site plan concerns, and an overall summary of the case from a transportation perspective.

Based on our review of the petition, we offer the following information for your consideration.

## **Transportation Summary**

This site is located within a mixed-use activity center. Generally CDOT supports greater density in mixed use activity centers since the mixture of uses yields shorter vehicle trip lengths that are less impactful than accommodating the same uses spread over greater distances. Further, if the design of the development sites can be done with safe, comfortable, and convenient facilities for pedestrians and cyclists, the rate of automobile usage per square foot of development can be reduced. This petition also improves the walkability of this site by implementing on street parking and planting strips and sidewalks along the property frontages, consistent with the adopted area plan.

The only remaining transportation issue that needs to be addressed is a conceptual alignment for Prosperity Crossing Rd. as it crosses Docia Crossing Rd. CDOT needs to be ensured that Prosperity Crossing Rd. aligns properly on both sides of Docia Crossing Rd. Please

## **Trip Generation**

	Existing Zoning		
Scenario	Land Use	Intensity	Trip Generation (Vehicle trips/day)
Existing Use	Vacant		
Entitlement	Single Family	7 Dwellings	90

	Proposed Zoning		
Site Plan	Land Use	Intensity	Trip Generation
Date			(Vehicle
			trips/day)
1/25/2016	Office	8k ft <sup>2</sup>	1,920
	Retail	9.5k ft <sup>2</sup>	
	Mini-Warehouse	101k ft <sup>2</sup>	

#### Curbline

The setback in this district is measured from the back of the existing or proposed curb. The proposed curblines are shown correctly on the plan.

#### **Resolved Issues**

- 1. The petitioner may need to revise the driveway connection to Robert Helms Rd. to eliminate one (1) additional on-street parking space west of the proposed driveway to provide adequate intersection sight distance requirements. The driveway connections and on-street parking reconfiguration will be determined during the construction permitting process.
- 2. The petitioner needs to revise the site plan to remove bike lanes on both Property Crossing Dr. and Docia Crossing Rd.
- 3. The petitioner needs to revise the site plan to provide an 8' planning strip and 6' sidewalk along the west side of the north/south private drive adjacent to the proposed SWM area.
- 4. The petitioner needs to revise and depict on the site plan 7' wide sidewalks where heading -in parking is proposed to provide adequate space for pedestrians (due to vehicle overhang).
- 5. The petitioner needs to widen Prosperity Crossing Rd. to a local collector street typical section requiring a minimum 51' of right-of-way; this street section allows recessed on-street parallel parking on both sides of the street. The future back of curb along the site's Prosperity Crossing Drive's frontage needs to be located 37' from the existing back of curb on the south side Prosperity Crossing Drive.
- 6. The petitioner needs to dedicate in fee simple 51' of total right-of-way as measured from Prosperity Crossing Rd.'s exiting "southern" right-of-way line. The public sidewalk along the sites Prosperity Crossing Rd. frontage can be placed in a permanent SUE or additional right-of-way. The petitioner needs to revise the site plan to depict and label future right-of-way and/or permanent Sidewalk Utility Easements along the site's Prosperity Crossing Rd. frontage
- 7. The petitioner needs to revise the site plan to depict and label a permanent SUE or additional right-of-way to include the entire 6' public sidewalk along the site's Docia Crossing Rd. frontage.

### **Outstanding Issues**

The petitioner needs to revise the site plan to show how the existing curbline of Prosperity Crossing Rd., west of Docia Crossing Rd. will properly align with the new curbline proposed east of Docia Crossing Rd.

## **Advisory Information**

The following are requirements of the developer that must be satisfied prior to driveway permit approval. We recommend that the petitioner reflect these on the rezoning plan as-appropriate.

- 1. According to the City of Charlotte's Driveway Regulations, CDOT has the authority to regulate/approve all private street/driveway and public street connections to the right-of-way of a street under the regulatory jurisdiction of the City of Charlotte.
- 2. Adequate sight triangles must be reserved at the existing/proposed street entrance(s). Two 35' x 35' sight triangles are required for the entrance(s) to meet requirements. All proposed trees, berms, walls, fences, and/or identification signs must not interfere with sight distance at the entrance(s). Such items should be identified on the site plan.
- 3. The proposed driveway connection(s) to Robert Helms Rd., Docia Crossing Rd, and Prosperity Crossing Rd. will require a driveway permit(s) to be submitted to CDOT and the North Carolina Department of Transportation for review and approval. The exact driveway location(s) and type/width of the driveway(s) will be determined by CDOT during the driveway permit process. The locations of the driveway(s) shown on the site plan are subject to change in order to align with driveway(s) on the opposite side of the street and comply with City Driveway Regulations and the City Tree Ordinance.
- 4. All proposed commercial driveway connections to a future public street will require a driveway permit to be submitted to CDOT for review and approval.
- 5. Any fence or wall constructed along or adjacent to any sidewalk or street right-of-way requires a certificate issued by CDOT.
- 6. A Right-of-Way Encroachment Agreement is required for the installation of any non-standard item(s) (irrigation systems, decorative concrete pavement, brick pavers, etc.) within a proposed/existing City maintained street right-of-way by a private individual, group, business, or homeowner's/business association. An encroachment agreement must be approved by CDOT prior to the construction/installation of the non-standard item(s). Contact CDOT for additional information concerning cost, submittal, and liability insurance coverage requirements.