

**Re: [External] Lake Wheeler Intersection with Carolina Pines Ave**

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From: Neidringhaus, Amy N <anneidringhaus@ncdot.gov>  
To: Ziemba, Robert J <rziemba@ncdot.gov>  
Sent: July 1, 2020 12:46:40 PM EDT

Rob,

Thank you very, very much for your feedback. I am just very ignorant on this subject and was hoping we would be able to find a workaround. Thank you again!

Amy

From: Ziemba, Robert J <rziemba@ncdot.gov>  
Sent: Wednesday, July 1, 2020 12:42 PM  
To: Neidringhaus, Amy N <anneidringhaus@ncdot.gov>; Grant, John H <jhgrant@ncdot.gov>; Brennan, Sean P <spbrennan@ncdot.gov>; Warren, Jeremy L <jlwarren@ncdot.gov>  
Cc: Huang, Yixuan <yhuang@ncdot.gov>; Walker, Braden M <bmwalker1@ncdot.gov>; Ishak, Doumit Y <dishak@ncdot.gov>; Bunting, Clarence B <cbunting@ncdot.gov>  
Subject: RE: [External] Lake Wheeler Intersection with Carolina Pines Ave

Poles need to be located so that we can mount signal heads above the travel lanes on the far side of the intersection for the approach in question. Worst case, we can use a diagonal span to avoid one quadrant, but it is not ideal, and depending on how it is done, it may not provide the proper visibility for the signal.

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Rob Ziemba, PE, CPM  
Central Region Signals Engineer - Divisions 5, 7, 8, 9  
Signal Design Section

North Carolina Department of Transportation

Currently working out of office, contact by email only.

919 814 4913 Office

919 771 2745 Fax

rziemba@ncdot.gov

1561 Mail Service Center

Raleigh, NC 27699-1561

750 North Greenfield Parkway

Garner, NC 27529-6949

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From: Neidringhaus, Amy N <anneidringhaus@ncdot.gov>  
Sent: Wednesday, July 1, 2020 12:05 PM  
To: Grant, John H <jhgrant@ncdot.gov>; Ziemba, Robert J <rziemba@ncdot.gov>; Brennan, Sean P <spbrennan@ncdot.gov>; Warren, Jeremy L <jlwarren@ncdot.gov>  
Cc: Huang, Yixuan <yhuang@ncdot.gov>; Walker, Braden M <bmwalker1@ncdot.gov>; Ishak, Doumit Y <dishak@ncdot.gov>; Bunting, Clarence B <cbunting@ncdot.gov>  
Subject: Re: [External] Lake Wheeler Intersection with Carolina Pines Ave

Hi John,

Thank you for the feedback. I just had one additional question for you, if that is ok. Is there another location within the area surrounding this intersection that a signal pole could be placed that maybe isn't in conflict with Duke? I have never done a signal design - ever - so please forgive me for the dumb question. It just seems there is a focus on that one location under Duke's line, so I was hoping there might be another feasible location for signal poles?

Thank you,

Amy

From: Grant, John H <jhgrant@ncdot.gov>  
Sent: Tuesday, June 30, 2020 3:46 PM  
To: Ziemba, Robert J <rziemba@ncdot.gov>; Brennan, Sean P <spbrennan@ncdot.gov>; Warren, Jeremy L <jlwarren@ncdot.gov>  
Cc: Neidringhaus, Amy N <anneidringhaus@ncdot.gov>; Huang, Yixuan <yhuang@ncdot.gov>; Walker, Braden M <bmwalker1@ncdot.gov>; Ishak, Doumit Y <dishak@ncdot.gov>; Bunting, Clarence B <cbunting@ncdot.gov>  
Subject: RE: [External] Lake Wheeler Intersection with Carolina Pines Ave

Looks like this location is set up to be signalized. Maybe construct a right turn lane on Carolina Pine Ave. It would be less expensive to build and according to the analysis operate better.

John H. Grant, PE

Regional Traffic Engineer – Capital Region

Transportation Mobility and Safety Division

Traffic Safety Unit

North Carolina Department of Transportation

919 814 4952 office

jhgrant@ncdot.gov

750 North Greenfield Parkway

1561 Mail Service Center

Raleigh, NC 27699-1561

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From: Ziemba, Robert J <rziemba@ncdot.gov>

Sent: Tuesday, June 30, 2020 12:38 PM

To: Brennan, Sean P <spbrennan@ncdot.gov>; Warren, Jeremy L <jlwarren@ncdot.gov>; Grant, John H <jhgrant@ncdot.gov>

Cc: Neidringhaus, Amy N <anneidringhaus@ncdot.gov>; Huang, Yixuan <yhuang@ncdot.gov>; Walker, Braden M <bmwalker1@ncdot.gov>; Ishak, Doumit Y <dishak@ncdot.gov>; Bunting, Clarence B <cbunting@ncdot.gov>

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Duke is sensitive to allowing other poles in areas where they may be close to transmission lines, but it is something that can sometimes be dealt with. They like to have a certain vertical and horizontal distance from their lines, a ring if you will, but it is something that we frequently have to work around. I am not aware of Duke saying we can't put signal poles, we just have to work within their tolerances.

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Rob Ziemba, PE, CPM

Central Region Signals Engineer - Divisions 5, 7, 8, 9

Signal Design Section

North Carolina Department of Transportation

Currently working out of office, contact by email only.

919 814 4913 Office

919 771 2745 Fax

rziemba@ncdot.gov

1561 Mail Service Center

Raleigh, NC 27699-1561

750 North Greenfield Parkway

Garner, NC 27529-6949

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From: Brennan, Sean P <spbrennan@ncdot.gov>

Sent: Tuesday, June 30, 2020 9:14 AM

To: Ziemba, Robert J <rziemba@ncdot.gov>; Warren, Jeremy L <jlwarren@ncdot.gov>; Grant, John H <jhgrant@ncdot.gov>

Cc: Neidringhaus, Amy N <anneidringhaus@ncdot.gov>; Huang, Yixuan <yhuang@ncdot.gov>; Walker, Braden M <bmwalker1@ncdot.gov>; Ishak, Doumit Y <dishak@ncdot.gov>; Bunting, Clarence B <cbunting@ncdot.gov>

Subject: Fw: [External] Lake Wheeler Intersection with Carolina Pines Ave

All,

The City of Raleigh is proposing some improvements at the intersection of Lake Wheeler Rd and Carolina Pines Ave. When they originally started this effort, they were proposing a partial multi-lane roundabout with two southbound throughs, with the inside through lane dropping as a left only left at Sierra Drive. We reviewed the analysis and said that we could support that option. Since then, they have learned that they are unable to widen to the south, so they got rid of the partial multi lane roundabout and changed to a turbo roundabout. After reviewing the new analysis, we determined that a signal would function at better LOS. The City of Raleigh still wants to pursue the turbo roundabout instead of a traffic signal and have provided the attached memo to try to justify utilizing their design over a signal. Also, they said that Duke won't let them put signal poles next to their transmission lines and I have asked them to provide that in writing from Duke, but they haven't provided anything yet. The signal has potential to operate at an LOS B in the PM if the timing is optimized and rights on red are permitted. The turbo roundabout would operate at LOS D in the PM (Braden, let me know if I'm getting that wrong). What are your thoughts on a signal vs a turbo roundabout at this location and do you know if they are correct about Duke not allowing signal poles at this location?

Regards,

Sean Brennan, PE

Senior Assistant District Engineer

Division 5/District 1

Department of Transportation

919-733-3213 office

919-715-5778 fax

spbrennan@ncdot.gov

4009 District Drive (Physical Address)

Raleigh, NC 27607

1575 Mail Service Center (Mailing Address)

Raleigh, NC 27699-1575

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From: Billings, Amy <Amy.Billings@raleighnc.gov>  
Sent: Tuesday, June 30, 2020 8:33 AM  
To: Brennan, Sean P <spbrennan@ncdot.gov>  
Subject: [External] Lake Wheeler Intersection with Carolina Pines Ave

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Sean,

Here is the info sent this morning.

I will send the other info that was sent to the wrong email address.

Sorry about that.

Thank you,

Amy

Amy Billings, PE

Senior Engineer

City of Raleigh

Engineering Services Department

Roadway Design & Construction

222 West Hargett Street | Raleigh, NC 27601

(p) 919-996-4103 | (c) 919-278-6092

amy.billings@raleighnc.gov

twitter.com/RaleighESDC [twitter.com]

<[facebook.com/RaleighESDC \[facebook.com\]](https://urldefense.com/v3/__http://twitter.com/RaleighESDC__;!!HYmSToo!MaTV12qXGqgY6_O8zvXu-ybkTL3fULuEuRX5CjqR5fr8dAFbpWaFwmWX_ggtw1YLGw$></a></p></div><div data-bbox=)

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<[Jul 1, 2020 12\\_46\\_40 PM EDTRe\\_  
\[External\] Lake Wheeler Intersection](https://urldefense.com/v3/__http://raleighnc.gov/__;!!HYmSToo!MaTV12qXGqgY6_O8zvXu-ybkTL3fULuEuRX5CjqR5fr8dAFbpWaFwmWX_gghpc70Xg$></a></p></div><div data-bbox=)

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