

WRITTEN DIRECT TESTIMONY OF Travis Braswell, PE

1. **Please state your name and business address for the record.**

Travis Braswell
7621 Purfoy Road, Suite 115
Fuquay Varina, NC 27526

2. **What is your current occupation?**

I am a Traffic Engineer.

3. **How long have you been a traffic engineer?**

13 years (licensed PE for 8 years)

4. **Did you provide a copy of your resume for these proceedings?**

Yes.

5. **Is Petitioner's Exhibit 16 a true and correct copy of your resume?**

Yes.

6. **Please briefly describe your educational background.**

I graduated from NC State University with a B.S. degree in Civil Engineering.

7. **Do you specialize in any particular areas?**

General Civil Engineering degree with a focus on transportation

8. **To what professional organizations do you belong?**

Institute of Transportation Engineers – NC Section (NCSITE)

9. **What additional certifications do you have?**

Professional Traffic Operations Engineer (PTOE)

10. **How long have you worked for Hatch Mott MacDonald?**

5 years

11. **What is your title at Hatch Mott MacDonald?**

Project Manager

12. **Please briefly describe some of the projects that you have been involved with over the course of your career.**

Prior to working at Mott MacDonald, I worked for the NC Department of Transportation, where I provided an agency review of TIA's submitted for proposed developments and provided access management recommendations as appropriate. In my time at Mott MacDonald, I have performed or reviewed over twenty traffic impact analyses for a local municipality.

I have also performed capacity analysis for various transportation improvement projects throughout NC, including new location roadways, improvements to existing roadways, and unconventional intersection designs such as roundabouts. Recent capacity analysis work includes providing assistance to NCDOT in the management of the statewide project prioritization process, which includes performing capacity analyses and reviewing the analyses of others.

In addition to capacity analyses, I have also performed crash analyses at various intersections and along roadway sections throughout NC. This work also included the evaluation of safety countermeasures for effectiveness, analysis of high-frequency crash locations, and field investigations to supplement crash analyses for locations where fatal crashes occurred.

13. **Have you ever been qualified as an expert witness in traffic engineering and transportation planning, and in the preparation of traffic impact analysis reports?**

No

14. **How many times have you been so qualified?**

N/A

15. **Are you familiar with the Lima Ola Workforce Housing project ("Project") being developed by the County of Kauai Housing Agency?**

Yes.

16. **Please describe your involvement in the Project.**

We were retained to analyze the existing traffic at certain intersections near the Project area and the impacts of the proposed Project on traffic.

17. **Did you or someone under your direction prepare any reports for the Project?**

Yes. We prepared the "Traffic Impact Analysis Final Report" for the Lima Ola Workforce Housing Project ("TIAR") dated March 24, 2014 and revised October 28, 2014.

18. **What was the purpose and scope for your TIAR?**

To assess the potential traffic impacts to the surrounding roadway network associated with the proposed project, including vehicular and pedestrian impacts.

19. **Please describe the proposed access to the Project?**

The initial project access would be via an eastward extension of Mahea Street. Connections to Kaumualii Highway (Route 50) (at Laulea Street (North) and Halewili Road (Route 540) would be added in latter phases of the project.)

20. **What are existing traffic volumes and conditions in the Project Area?**

Traffic volumes on Kaumualii Highway (Route 50) are moderately heavy for a typical two-lane highway. The intersecting roadways generally have considerably less traffic.

21. **Are those traffic volumes expected to change whether the Project is built or not?**

Yes. Traffic volumes on the study roadways will increase in the future, especially on Kaumualii Highway (Route 50), regardless of whether the project is built or not.

22. **With the addition of the Project, how are those traffic volumes expected to change?**

The increased traffic from the project on the roadways intersecting with Kaumualii Highway (Route 50) would further exacerbate the high delays for traffic on these roadways.

23. **In terms of determining future traffic Levels of Service, what planned roadway improvements did you assume would be completed?**

None outside of those proposed by the project.

24. **What is the current and expected future condition of the studies intersections?**

Future condition delays at the study intersections would increase (compared to existing conditions) as traffic movement capacities at the study intersections are further exceeded.

25. **Please state your conclusions from your TIAR.**

With the implementation of certain roadway improvements, future operations with the project would be the same or better than without traffic from the project.

26. **What sort of traffic mitigation measures are proposed in the TIAR?**

Improvements range from additional roadway turning lanes to signalization of study intersections.