

CTIP PROJECT PROPOSAL

Request for Funding

FY 2005

Submitted by: FHWA ~ WFLHD

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Funding Source: (Check one.)

Agency Fund

General Fund

Project Title: Trip Generation Rates in Indian Country

Background and Purpose: The Institute of Traffic Engineers (ITE) has developed trip generation models for a wide range of facilities. Trip generation models are a critical tool for transportation planning activities. ITE published the 7th edition (latest version) of its best-selling Informational Report--Trip Generation-- in the fall of 2003. In that document the Institute announced a particular interest in receiving data and asked for the study of casino facilities.

Trip generation models for facilities and needs within Indian Communities, and for facilities developed by Tribes, is severely lacking. The most glaring example is a casino. Casinos do not have an ITE trip generation rate model.

As Tribes plan casinos for economic development, a reliable traffic impact to the surrounding transportation system network cannot be determined. With a robust trip rate generation model available the Tribe and surrounding community would have a key tool for transportation planning related to a proposed casino. A trip rate generation model for casinos would have nationwide use, both in Tribal and Non-tribal transportation planning.

The project would be extremely creative, taking the existing trip generation model practices and developing data for facilities in Indian Communities. This would allow Tribes and local communities to address transportation issues consistent with standard best practices applied by planners in non-Indian communities. This would lead to more dynamic interactive solutions between Indian Communities and the surrounding transportation facilities.

Scope:

1. The BIA Planner and FLH Planner will organize a kick off meeting with key stakeholders.
2. This meeting will develop a tribal transportation community list of priorities for trip generation.
3. Then BIA and FLH will develop a scope of work for a consultant.

The scope of work will be limited to a few trip generation models (casino and dwelling) or related to a type of trip (cultural trip). Depending on the scope, vehicle occupancy in Indian communities could be added to the scope. The scope of work will be used to contract with a tribal or private entity to complete the project.

The study design will adhere to the ITE recommended practice and criteria manual, The Trip Generation Handbook. This document provides guidelines for application and interpretation of trip

generation data. Topics covered in the handbook include guidelines for estimating site trip generation, collecting local trip generation data, developing local trip generation rates and estimating pass-by trips.

Members in the Tribal Transportation Community will evaluate the draft trip generation models. The evaluation will be addressed in a final revision of the trip generation models.

Estimated Benefits: The proposal will follow the best current practices guidelines to develop trip generation models for two or more key transportation origin/destinations related to Native Americans.

The benefits of this trip generation for the Tribes and the Federal Land Management Agencies are:

- Trip generation data for origins/destinations in Indian Country is lacking. This project would break new ground in Tribal transportation planning.
- Tribes working towards economic development could use the trip generation data to better plan their future projects.
- Travel patterns from a household in Indian Country differ from those in other areas of the country. Trips from a household in Indian Country likely have a different mode split (vehicle, walking, biking, etc.) due to high unemployment rates, low household income levels, and/or other factors.
- Cultural trips, trips related to a death, ceremonial fishing, ceremonies, and other events are a special kind of trip generation that has never been modeled.
- Vehicle occupancy in Indian communities has never been studied.
- Federal Lands Highway, through the Indian Reservation Road Program, has been emphasizing transportation planning for the IRR. Having trip generation models would make transportation planning for IRR much more accurate, professional and relevant to the issues facing Indian communities.

The idea of modeling trips, such as cultural trips, could lead towards more research in specialized trip generation models for Federal Land Management Agencies. The FS experiences trips related to gathering resources on Federal Lands that impact their transportation systems. Knowledge learned from this project could assist FLMA in developing trip generation models for key activities.

Deliverables: *Describe, as a minimum, the product(s) expected and the audience or "market" for this product.*

- FY 2005 Initial Meeting, Plan for the Project, Scope of Work, Initial phases of consultant contract
- FY2006 Consultant contract develops draft model, Peer Review by Tribal Transportation Planners, final report completed.
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Duration: Two years

Total Cost: \$200,000

Estimated Cost by Fiscal Year:

- Fiscal Year 2005: \$100,000 (\$25,000 Planning and BIA Staff to develop scope of work and \$75,000 consultant contract)
- Fiscal Year 2006: \$100,000 (\$100,000 consultant contract)