

**Detroit River International Crossing Study
Evaluation of Practical Alternatives
Supporting Data - Alternative 11**

DRAFT
FOR DISCUSSION PURPOSES ONLY
11-15-06

| Evaluation Factor | Performance Measure Category | | Description/Units | Interchange | Plaza | Crossing X11 | |
|--|--|--|---|---------------------------|------------------------------------|---------------------------|---|
| | | | | | | | |
| Protect Community / Neighborhood Characteristics | Traffic Impacts | Streets Closed (permanently) | Number | 9 | see Public Safety | 4 | |
| | | Streets Crossed | Number | 13 | see Public Safety | 4 | |
| | | Streets Rerouted | Number | 4 | see Public Safety | 0 | |
| | | Streets with Interchange | Number | 1 | see Public Safety | NA | |
| | | Railines Crossed | Number | 2 | see Public Safety | 0 | |
| | Noise | Frontline Exposure | Number of dwelling units exposed | 101 | 105 | 4 | |
| | | Significant Receptors' Exposures | Number /Specity | 10 | 2 | 2 | |
| | Community Cohesion/ Character | Positive/Negative/Neutral | | Neutral ⁵ | Neutral ⁵ | Neutral ⁵ | |
| | Potential Acquisition | Residential Units | Occupied | 190 | 168 | 16 | |
| | | | Vacant | 1 | 17 | 0 | |
| | | Residential Population | Number | 466 | 412 | 39 | |
| | | | Business Units | Active | 25 | 18 | 3 |
| | | | Vacant | 19 | 8 | 2 | |
| | | Estimated Employees in affected Census Blocks ² | Number | 90-130 | 281 | 0 | |
| | | Other Land Uses Affected ³ | Schools - Partial take Parking Lot | | 0 | 0 | 0 |
| | | | Senior Service Facilities | | 0 | 0 | 0 |
| | | | City/Government Facilities | | 1 | 2 | 0 |
| | | | Places of Worship | | 4 | 3 | 0 |
| | | | Medical Facilities | | 1 | 0 | 0 |
| | | | State/Federal Government Facilities | | 1 | 1 | 0 |
| | | | Community Services/Parks | | 0 | 0 | 0 |
| | | Vacant | | 0 | 0 | 0 | |
| | Environmental Justice / Title VI | EJ Populations in affected Census Block Groups | EJ Population (non poverty) | 5619 | 1524 | 617 | |
| | | | Population Groups Affected | American Indian, Hispanic | African American, American Indian, | American Indian, Hispanic | |
| | | | % Households in Poverty / Above or Below 9.9% Regional Threshold ⁵ | 32.4%/Above | 39.6%/Above | 37.5%/Above | |
| | | | Households in poverty | 717 | 296 | 138 | |
| | | Title VI Groups in Census Tracts | Presence of Regionally Prominent Ancestral Groups | None | None | None | |
| Public Safety/ Security (Plaza & Crossing) | Proximity to Industry ⁶ | Number of heavy industry businesses w/ 1/2 mile | N/A | 3 | 3 | | |
| | | Number of medium industry businesses w/ 1/2 mile | N/A | 5 | 4 | | |
| | | Number of light industry/office businesses w/ 1000ft/300m | N/A | 4 | 3 | | |
| | Proximity to Residential / Retail | Number of residences w/i 500ft/150m | N/A | 59 | 29 | | |
| | | Number of businesses w/i 500ft/150m | N/A | 11 | 5 | | |
| | Proximity to Hazardous Materials | Number of EPA/DEQ Hazmat TSD Facilities w/i 500ft/150m | N/A | 0 | 0 | | |
| | | Emergency Response | Distance to nearest fire station (mi) | N/A | 0.7 | 0.4 | |
| | | Distance to nearest police station (mi) | N/A | 0.9 | 0.4 | | |
| | | Number of streets closed (perm.) | N/A | 17 | 2 | | |
| | Number of streets closed (during const.) | N/A | 16 | 2 | | | |
| | Mainline Railines Rerouted | N/A | 5 | 0 | | | |

1. Sensitive noise receptors are historic sites, medical facilities, parks, places of worship, schools, within fifty meters of an alignment, plaza, or crossing.
Interchange: All Saints Church, Faith Tabernacle, New Beginning Ministry, El Abrigo Altimo, Michigan Bell Bldg, Fort & Green Police Station, Beard Early Learning School
Plaza: Historic Fort Wayne & Southwestern High School

Crossing: Historic Fort Wayne & Delray Park Public Boat Launch

2. Employee estimates provided by Tetrad Computer Applications and are based on employees per Census Block Group - proportionately disaggregated to the block level for blocks within or partially within plaza boundaries. Plazas have been field surveyed to determine occupancy status of businesses.

3. Potential Acquisitions

Interchange: First Latin America, Old Landmark Church, Military Ave Church, Detroit Friends Meeting Quakers, Partial Detroit Public Safety Building
Plaza: Rademacher Recreation Center, Detroit Sewer and Water Department, New Day Church, Saint Paul AME, Abundant Life Apostolic Overcoming Holy Church, MetroMatrix Human Services, Family Independence Agency

4. The poverty threshold for the SEMCOG region is 9.9%. Block groups with percentage of households living in poverty above 9.9% qualify as environmental justice communities.

PPO Receptors: Southwestern High School, Apt. Bldg @ Campbell and Fischer Service Dr., Ft. Wayne, Unemployment Office

5. Community Cohesion could/will be improved as a result of the master planning for the area relating to the urban fabric and how the crossing system fits with that fabric.

6. Plaza Alt: (H) Mistersky Power Station, Detroit Thomas Edison Plant, Lafarge (M) Arvin Meritor, Produce Terminal, Progressive Distribution Center, Yellow Trucking, Bridgewater Interiors

Crossing: (H) Mistersky Power Plant, Port of Detroit, Detroit Edison (M) OJ Logistics, Bridgewater Interiors, Hascal Steel, Packing Materials Company

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| | Official Plans | Consistency | | | | |
| Maintain Consistency w/Local Planning | Other Plans | Consistency | YES/NO | Yes | No | Yes |
| | Environmental Sites Affecting Plan Implementation (single sites may have multiple designations) | Leaking Undgrd. Stor. Tanks | Number | Yes ¹ | Yes ¹ | Yes ¹ |
| | | EPA/DEQ Hazmat TSD Facility | Number | 3 | 1 | 1 |
| | | National Priority List (Superfund) | Number | 1 | 0 | 0 |
| | | RTK Cerclis (Superfund) | Number | 0 | 0 | 0 |
| | | Michigan Contaminated Site | Number | 0 | 2 | 1 |
| | | | | 0 | 3 | 1 |

Residential-low-to medium density planned SE corner of PPO outline officially and unofficially

1. Based on master planning being designed with community input as part of the D R I C Study.

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|----------------------------|-------------------------------------|--|----------------------------|-------------|--------|--------------|
| Protect Cultural Resources | Above Ground Historic Resources | Historic Districts | Number | 0 | 0 | 0 |
| | | Listed NRHP Sites/Structures | Number | 0 | 0 | 0 |
| | | Listed SHRS Sites/ Structures | Number | 0 | 0 | 0 |
| | | Locally Listed Sites/Structures | Number | 0 | 0 | 0 |
| | | Potentially Eligible Sites/Str. ¹ | Number | 3 | 1 | 1 |
| | Archaeology | Prev. Recorded Sites ² | Number | 0 | 2 | 1 |
| | Below Ground Resources ¹ | Potential to Find/Record | High/Med/Low | Low | Medium | Medium |
| | Parkland | All Public Parks | Number/ Acres | 0 | 1/2.24 | 0 |
| | | 6(f) Parks | Number/Specify | 0 | 0 | 0 |
| | | Coastal Zone Management | Number of Projects/Specify | 0 | 0 | 0/0 |

1. Interchange: Olivet Church, 707 Lewerenz; Turnsteads (Fisher Body), 6307 W. Fort; Apartment Bldg, 760 Campbell.

Plaza: St. Paul A.M.E. Church, 581-585 S. Rademacher

Crossing: Mistersky Power Station 5467 W. Jefferson

2. Plaza: 20WN382, King David's Lodge Cemetery-Jewish 1870 (dating and name of cemetery is believed to be in error. It is more likely the Detroit City Lodge (Jewish) Cemetery located "north of Fort Street west, about 3 miles from City Hall" [Polk's Detroit City Directory 1886:68]); 20WN6, Carsten Mound

Crossing: 20WN3 Copper Works Mound (Alternate Location)

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| | | | | Interchange | Plaza | Crossing X11 |
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| Evaluation Factor | Performance Measure Category | | Description/Units | | | |
| Protect The Natural Environment | Surface Water | Floodplain | Number/Acres | 0 | 0/0 | 0.21 |
| | | Surface Run Off | Acres | 10 | 173 | 0 |
| | | Primary Streams ¹ | Number/Specify | 0 | 0 | 1: Detroit R. |
| | | Secondary Streams ² | Number/Specify | 0 | 0 | 0 |
| | | Other Water-crossings | Number/Specify | 0 | 0 | 0 |
| | Groundwater | Municipal Wells | Number | 0 | 0 | 0 |
| | | Water In-takes | Number/Specify | 0 | 0 | 0 |
| | Significant Habitat | Wetlands | Acres | 0 | 0 | 0.47 |
| | | Fens / Bogs | Number/Acres | 0 | 0 | 0/0 |
| | | Endangered Species ³ | Potential Species | 0/0 | 0 | 0/0 |
| | | Designated Wildlife Refuges | Number/Acres | 0 | 0/0 | 0/0 |
| | Prime/Unique Farmland | Farmland | Acres | 0 | 0 | 0 |
| | Mineral Resources | Salt /Limestone | Type/Specify | Salt | Salt | Salt |

Notes:

1: Primary Streams are classified as water courses with an average width greater than 50ft/15m

2: Secondary streams are classified as water courses with an average width less than 50ft/15m.

3: Based on preliminary site investigation of the plaza sites (viewing from public access points), none of the plant or animal species listed as endangered species within the quads for this region are expected to occur within the boundaries of the plazas .

The crossings includes open portions of the Detroit River and nearshore areas where threatened, endangered, and special concern species are known to have been present. A summary of species with a potential to be present is provided below. This analysis and site investigation are preliminary in nature.

1 animal species listed by the State as Threatened is known to spawn upstream of the crossing corridor at Zug Island. 7 animal species listed by the State as Threatened, Endangered, or Special Concern have the potential to be present within specific habitats within or near the crossing corridor.