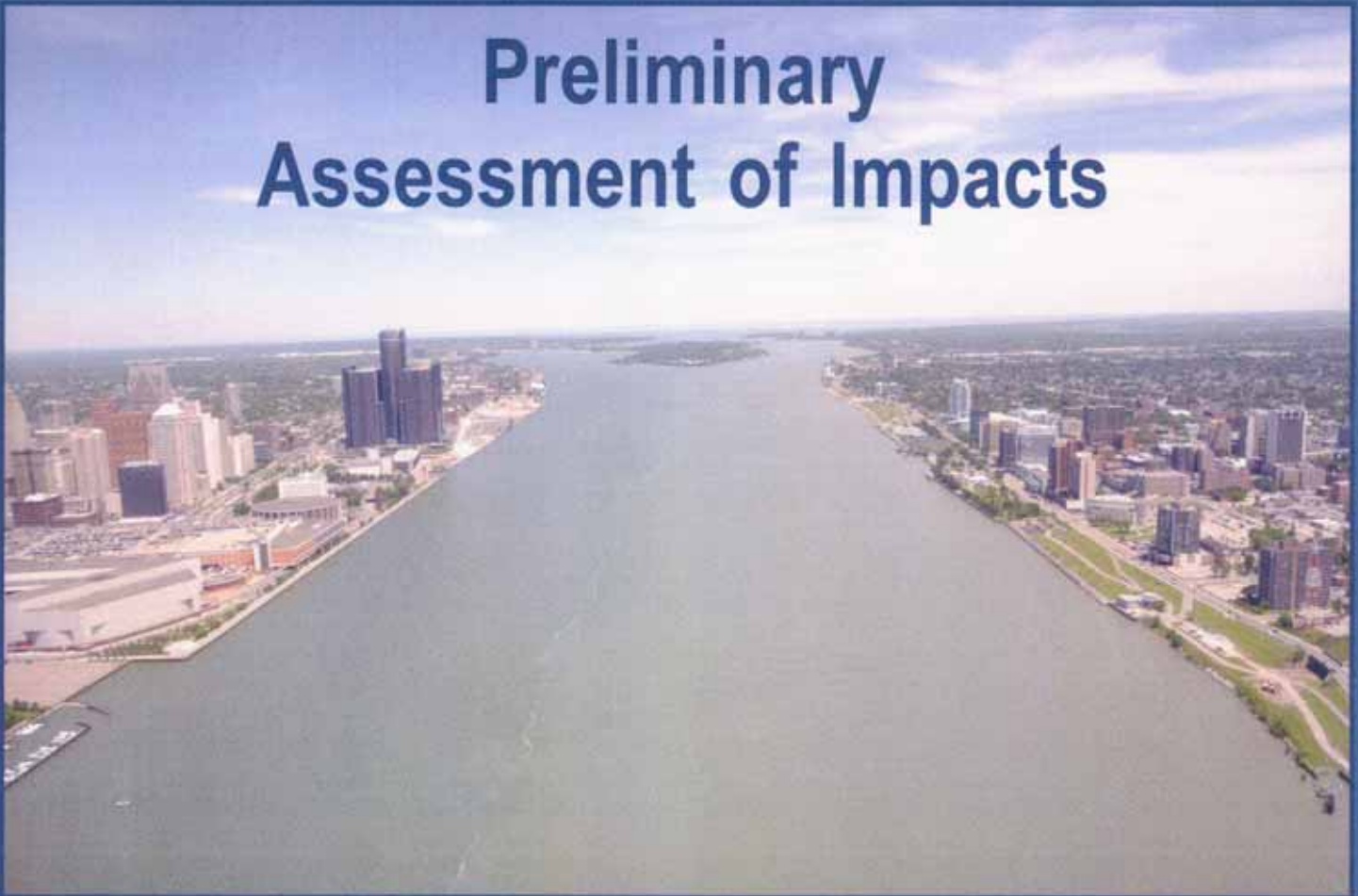


The Detroit River International Crossing  
**Public Meeting**

**Preliminary  
Assessment of Impacts**

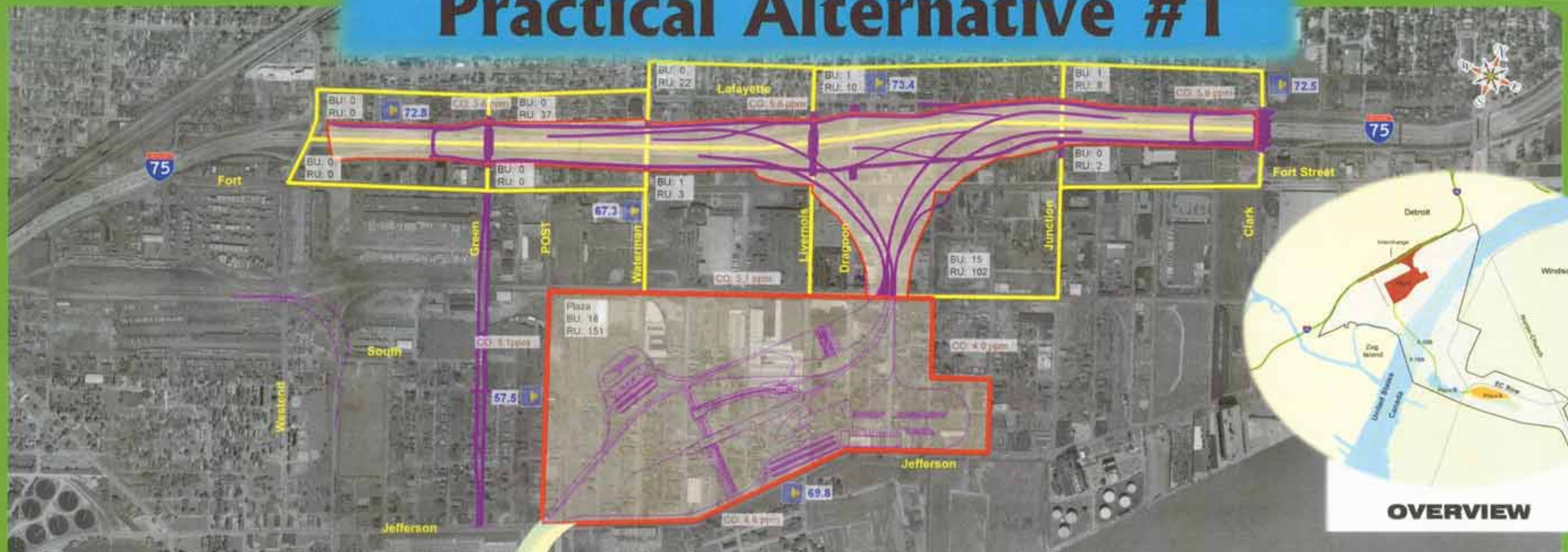


December 5, 2006



# Detroit River International Crossing Practical Alternative #1

PRELIMINARY  
(AS OF 11/15/2006)



OVERVIEW

Alternative 1 – Preliminary Summary of Impacts

EVALUATION FACTOR	PERFORMANCE MEASURE	UNITED STATES SUMMARY				CANADIAN SUMMARY			
		INTERCHANGE	PLAZA	CROSSING		X-10A/PLAZA A	X-10B/PLAZA A	X-10B/PLAZA B1	
				X-10A	X-10B				
PROTECT COMMUNITY NEIGHBORHOOD CHARACTERISTICS	TRAFFIC	STREETS CLOSED	8	14	0	0	0		
	NOISE	FRONTLINE EXPOSURE (TOTAL RESIDENTIAL)	109	101	0	0	0		
	POTENTIAL ACQUISITION	OCCURRED RESIDENTIAL	184	151	0	0	0		
		ACTIVE BUSINESSES PLACES OF WORSHIP/SCHOOLS	18	18	3	2	1		
MAINTAIN CONSISTENCY WITH LOCAL PLANNING	OFFICIAL PLANS	CONSISTENCY	Yes	No	Yes	Yes	Yes		
	ENVIRONMENTAL SITES AFFECTING PLAN IMPLEMENTATION	NUMBER	6	6	2	2	5		
	PROTECT CULTURAL RESOURCES	ABOVEGROUND HISTORIC/NATIONAL REGISTER	NUMBER	0	0	1-FORT WAYNE	1-FORT WAYNE	0	
PROTECT THE NATURAL ENVIRONMENT	POTENTIALLY ELIGIBLE FOR REGISTER STRUCTURES	NUMBER/SITE	2-OLIVET CHURCH, APART BUILDING	1-ST. PAUL A.M.E	0	0	0		
	ARCHAEOLOGIC SITES/PARKLANDS	NUMBER/NUMBER/SITE	0/0	2/1-BADEMACHER PARK	0/0	0/0	0/0		
	SIGNIFICANT HABITAT (D-Endangered / N-Potential)	NUMBER/SITE	0/0	0/0	0/0	0/0	0/0		
IMPROVE REGIONAL MOBILITY (Goal by 2035 Volume)	2035 AVERAGE DAILY TWO-WAY CROSSING VOLUME (ADT)	2035 ADT	SEE CROSSING DATA	SEE CROSSING DATA	37,000	37,000	37,000		
CONSTRUCTABILITY (All System Components are Constructible)	KEY ISSUES	REFER TO INDIVIDUAL CROSSING COMPONENT	UTILITY RELOCATION, POTENTIAL CONTAMINATED SOILS	UTILITY RELOCATION, BRAIDED RAMPS	BRIDGE LENGTH/COMPLEXITY, CONTAMINATED SOILS	CONTAMINATED SOILS, UTILITIES	POWER STATION/UTILITIES, RAIL LINE		
MAINTAIN AIR QUALITY	ONE HOUR CO CONCENTRATION HOTSPOTS		REFER TO GRAPHIC				INCREASES IN PM2.5 AND NO2 IN VICINITY OF CROSSING, APPROACH ROADWAY, AND PLAZA.		

LEGEND

- U.S. Plaza & Interchange Footprint
- Interchange & Local Streets
- Canadian Plaza A (X-10A)
- Canadian Plaza A (X-10B)
- Canadian Plaza B (X-10B)
- Crossing X-10A
- Crossing X-10B
- Existing Noise Level (Decibel dBA)  
(Standard for noise mitigation is 67 dBA for residential areas)
- CO: Carbon Monoxide Concentration (ppm)  
(Air Quality standard for 1 hour CO level is 35 ppm, 2035 Peak hour includes 3.4 ppm background)
- BU: # of Active Business Units
- RU: # of Occupied Residential Units

37,000 ADT



**Detroit River International Crossing Study  
Evaluation of Practical Alternatives  
Supporting Data - Alternative 01**

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FOR DISCUSSION PURPOSES ONLY  
11-15-06

Evaluation Factor	Performance Measure Category	Description/Units	Interchange	Plaza	Crossing X10A	Crossing X10B	
Protect Community / Neighborhood Characteristics	Traffic Impacts	Streets Closed (permanently)	8	see Public Safety	0	0	
		Streets Crossed	9	see Public Safety	2	2	
	Noise	Streets Rerouted	5	see Public Safety	0	0	
		Raillines Crossed	1	see Public Safety	NA	NA	
	Community Cohesion/ Character	Frontline Exposure	Number of dwelling units exposed	109	see Public Safety	1	2
		Significant Receptors - Exposures	Number/Specify	11	101	0	0
	Potential Acquisition	Positive/Negative/Neutral	Occupied	Neutral <sup>5</sup>	Neutral <sup>6</sup>	Neutral <sup>6</sup>	Neutral <sup>6</sup>
			Vacant	184	151	0	0
		Residential Population	Residential Units	2	4	0	0
			Business Units	461	370	0	0
Estimated Employees in affected Census Blocks <sup>7</sup>		Active	18	10	3	0	
		Vacant	14	11	0	0	
Other Land Users Affected <sup>8</sup>		Number	60-80	281	151	190	
		Schools - Partial Lake Parking Lot	1	0	0	0	
EJ Populations in affected Census Block Groups		Senior Service Facilities	0	0	0	0	
		City/Government Facilities	1	2	0	0	
Environmental Justice / Title VI	Places of Worship	3	3	0	0		
	Medical Facilities	1	0	0	0		
EJ Populations in affected Census Block Groups	State/Federal Government Facilities	1	1	0	0		
	Community Services/Parks	0	0	0	0		
Title VI Groups in Census Tracts	Vacant	0	0	0	0		
	EJ Population (non poverty)	6689	1,524	490	490		
Public Safety/ Security (Plaza & Crossing)	Population Groups Affected	American Indian, Hispanic	African American, American Indian, Hispanic	African American, American Indian, Hispanic	African American, American Indian, Hispanic		
	% Households in Poverty / Above or Below 9.9% Regional Threshold <sup>4</sup>	Households in poverty	31.6%/Above	39.6%/Above	36.2%/Above	39.2%/Above	
Proximity to Industry <sup>1</sup>	Presence of Regionally Prominent Ancestral Groups	None	None	None	None		
	Number of heavy industry businesses w/ 1/2 mile	866	296	76	76		
Proximity to Residential / Retail	Number of medium industry businesses w/ 1/2 mile	N/A	3	3	3		
	Number of light industry/office businesses w/ 1000ft/300ft	N/A	6	1	1		
Proximity to Hazardous Materials	Number of residences w/ 500ft/150m	N/A	4	0	0		
	Number of businesses w/ 500ft/150m	N/A	49	16	13		
Emergency Response	Number of EPA/DEQ Hazmat TSD Facilities w/ 500ft/150m	N/A	10	4	4		
	Distance to nearest fire station (mi)	N/A	0.6	0	0		
Community Cohesion/ Character	Distance to nearest police station (mi)	N/A	0.9	1.4	1.4		
	Number of streets closed (perm.)	N/A	14	0	0		
Potential Acquisitions	Number of streets closed (during const.)	N/A	11	1	1		
	Mainline Railines Rerouted	N/A	2	0	0		

Notes:  
 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 Abrego Alamo, Military Ave. Church, Michigan Bell Bldg, Fort & Green Police Station, Board School Plaza, Historic Fort Wayne & Southwestern High School  
 2. Employee estimates provided by Telford 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 - Partial Beard Early Learning Center, First Latin America, Detroit Friends Meeting Quakers, Old Landmark Church, Partial Detroit Public Safety Building/Homeland Security, Meritmatrix Services Plaza, Rademacher Recreation Center, Detroit Sewer and Water Department, New Day Church, Saint Paul AME, Abundant Life Apostolic Overcoming Holy Church, Family Independence PPO Receptors, Southwestern High School, Apt. Bldg @ Campbell and Fischer Service Dr., Ft. Wayne, Unemployment Office  
 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.  
 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: (H) Miesky Power Station, Detroit Thomas Edison Plant, Lalage (M) Arvin Mentor, Produce Terminal, Hascak Steel, Progressive Distribution Center, Bridgewater Interiors, Yellow Trucking Crossing - (H) Zug Island, Lafarge, Detroit Thomas Edison (M) Yellow Trucking

**Detroit River International Crossing Study  
Evaluation of Practical Alternatives  
Supporting Data - Alternative 01**

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11-15-06

Evaluation Factor	Performance Measure Category		Description/Units	Interchange	Plaza	Crossing X10A	Crossing X10B
	Official Plans	Consistency					
Maintain Consistency w/Local Planning	Other Plans	Consistency	YES/NO	Yes	No	Yes	Yes
	Environmental Sites	Leaking Undergr. Stor. Tanks	YES/NO	Yes <sup>1</sup>	Yes <sup>1</sup>	Yes <sup>1</sup>	Yes <sup>1</sup>
	Affecting Plan Implementation	EPA/DEQ Hazmat TSD Facility	Number	4	1	0	0
	(single sites may have multiple designations)	National Priority List (Superfund)	Number	1	0	0	0
		RTK Cerclis (Superfund)	Number	0	0	0	0
	Michigan Contaminated Site	Number	1	2	1	1	
			Number	0	3	1	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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 11-15-06

**Detroit River International Crossing Study  
 Evaluation of Practical Alternatives  
 Supporting Data - Alternative 01**

Evaluation Factor	Performance Measure Category		Description/Units	Interchange	Plaza	Crossing X10A	Crossing X10B
	Above Ground Historic Resources	Below Ground Resources <sup>1</sup>					
Protect Cultural Resources	Historic Districts		Number	0	0	0	0
	Listed NRHP Sites/Structures <sup>1</sup>		Number	0	0	1	1
	Listed SHRS Sites/Structures		Number	0	0	0	0
	Locally Listed Sites/Structures		Number	0	0	0	0
	Potentially Eligible Sites/Str. <sup>2</sup>		Number	2	1	0	0
	Archaeology		Number	0	2	0	0
	Prev. Recorded Sites <sup>2</sup>		High/Med/Low	Low	Medium	Medium	Medium
	Potential to Find/Record		Number/ Acres	0	1/2.4	0	0
	All Public Parks <sup>4</sup>		Number/Specify	0	0	0	0
	6(f) Parks		Number of Projects/Specify	0	0	0/0	0/0
Parkland		Coastal Zone Management					

1. National Registered Historic Places, Historic Fort Wayne  
 2. Interchange: Olivet Church, 707 Lewerenz; Apartment Building, 760 Campbell.  
 Plaza: St. Paul A.M.E. Church, 581-585 S. Rademacher  
 3. 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  
 4. Public Parks: Plaza - Rademacher Park

**Detroit River International Crossing Study  
Evaluation of Practical Alternatives  
Supporting Data - Alternative 01**

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11-15-06

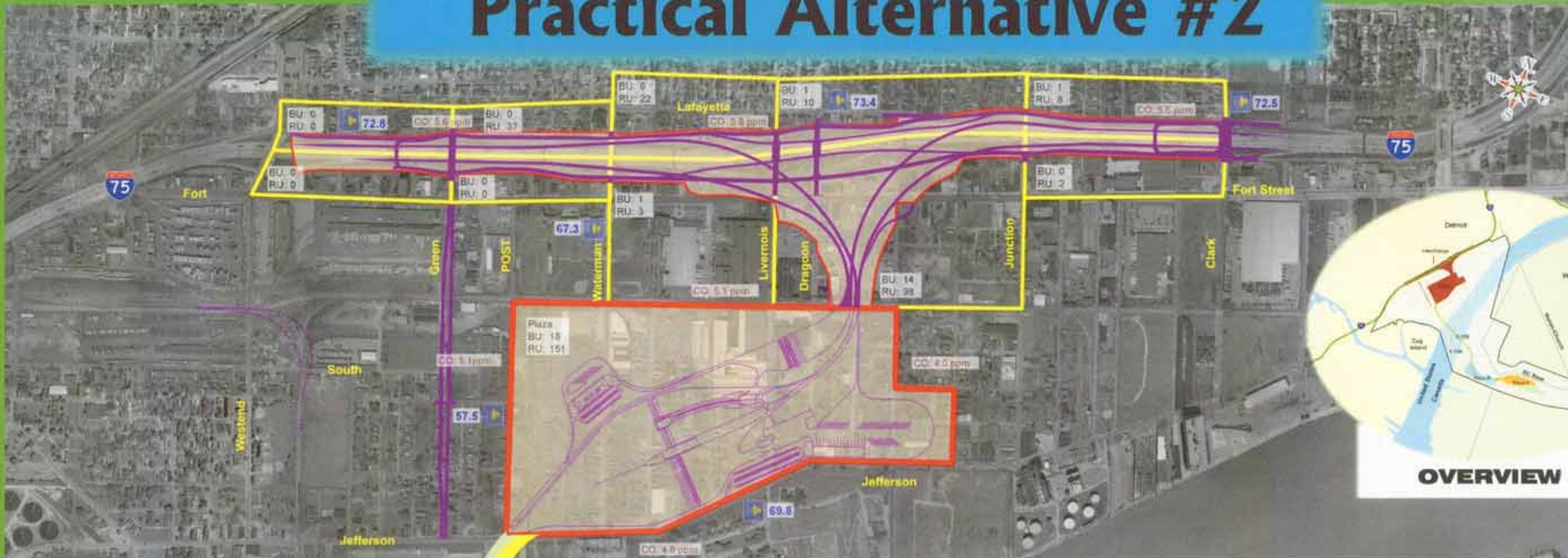
Evaluation Factor	Performance Measure Category	Description/Units	Interchange	Plaza	Crossing X10A	Crossing X10B
Protect The Natural Environment	Surface Water	Floodplain	0	0	3	0
		Surface Run Off	10	164	11,1	10,4
		Primary Streams <sup>1</sup>	0	0	1: Detroit R.	1: Detroit R.
		Secondary Streams <sup>2</sup>	0	0	0	0
		Other Water-crossings	0	0	0	0
	Groundwater	Municipal Wells	0	0	0	0
		Water In-takes	0	0	0	0
	Significant Habitat	Wetlands	0	0	0	0
		Fens / Bogs	0	0	0	0
		Endangered Species <sup>3</sup>	0/0	0	0/0	0/0
		Designated Wildlife Refuges	0	0/0	0/0	0/0
	Prime/Unique Farmland Mineral Resources	Farmland	0	0	0	0
		Salt/Limestone	Salt	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.



# Detroit River International Crossing Practical Alternative #2

PRELIMINARY  
(AS OF 11/15/2006)



**LEGEND**

- U.S. Plaza & Interchange Footprint
- Interchange & Local Streets
- Canadian Plaza A (X-10A)
- Canadian Plaza A (X-10B)
- Canadian Plaza B (X-10B)
- Crossing X-10A
- Crossing X-10B
- Existing Noise Level (Decibel dBA)  
(Standard for noise mitigation is 67 dBA for residential areas)

CO: Carbon Monoxide Concentration (ppm)  
(Air Quality standard for 1 hour CO level is 3.6 ppm, 2035 Peak hour includes 3.4 ppm background)

BU: # of Active Business Units  
RU: # of Occupied Residential Units

**Alternative 2 – Preliminary Summary of Impacts**

EVALUATION FACTOR	PERFORMING MEASURE	UNITED STATES SUMMARY				CANADIAN SUMMARY		
		INTERCHANGE	PLAZA	CROSSING		X-10A/PLAZA A	X-10B/PLAZA A	X-10B/PLAZA B1
				X-10A	X-10B			
PROTECT COMMUNITY NEIGHBORHOOD CHARACTERISTICS	TRAFFIC	STREETS CLOSED	7	14	0	0	0	0
	NOISE	FRONTLINE EXPOSURE (TOTAL RESIDENTIAL)	109	101	0	0	0	0
	POTENTIAL ACQUISITION	OCCUPIED RESIDENTIAL	180	151	0	0	0	0
MAINTAIN CONSISTENCY WITH LOCAL PLANNING	OFFICIAL PLANS	CONSENSUS NUMBER	Yes	No	Yes	Yes	Yes	Yes
	ENVIRONMENTAL SITES AFFECTING PLAN IMPLEMENTATION	NUMBER	0	0	2	2	2	2
	ABOVEGROUND HISTORIC/NATIONAL REGISTER	NUMBER/SITE	0	0	1-FORT WAYNE	1-FORT WAYNE	1-FORT WAYNE	1-FORT WAYNE
PROTECT CULTURAL RESOURCES	POTENTIALLY ELIGIBLE FOR REGISTER STRUCTURES	NUMBER/SITE	3-DUVEY CHURCH, FISHER BODY, APART BUILDING	1-ST. PAUL A.M.E	0	0	0	0
	ARCHAEOLOGIC SITES	NUMBER	0	2	0	0	0	0
	PARKLANDS	NUMBER/SITE	0	1-RADMACHER PARK	0	0	0	0
PROTECT THE NATURAL ENVIRONMENT	SIGNIFICANT HABITAT (ED-Endangered / PL-Potential)	NUMBER/SITE	0	0	0	0	0	0
IMPROVE REGIONAL MOBILITY (based to 2035 Volume)	2035 AVERAGE DAILY TWO-WAY CROSSING VOLUME (ADT)	2035 ADT	SEE CROSSING DATA	SEE CROSSING DATA	37,000	37,000	37,000	37,000
CONSTRUCTABILITY (Are System Components Constructible)	KEY ISSUES	REFER TO INDIVIDUAL CROSSING COMPONENT	UTILITY RELOCATION, POTENTIAL CONTAMINATED SOILS	UTILITY RELOCATION, BRAIDED RAMPS	BRIDGE LENGTH, COMPLEXITY, CONTAMINATED SOILS	CONTAMINATED SOILS, UTILITIES	POWER STATION/UTILITIES, RAIL LINE	POWER STATION/UTILITIES, RAIL LINE
MAINTAIN AIR QUALITY	ONE HOUR CO CONCENTRATION HOTSPOTS							

REFER TO GRAPHIC

INCREASES IN PM2.5 AND NOx IN VICINITY OF CROSSING, APPROACH ROADWAY, AND PLAZA.



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**Detroit River International Crossing Study**  
**Evaluation of Practical Alternatives**  
**Supporting Data - Alternative 02**

Evaluation Factor	Performance Measure Category	Description/Units	Interchange	Plaza	Crossing X10A	Crossing X10B	
							Streets Closed (permanently)
Traffic Impacts	Streets Closed (permanently)	Number	7	see Public Safety	0	0	
	Streets Crossed	Number	9	see Public Safety	2	2	
Noise	Streets Rerouted	Number	3	see Public Safety	0	0	
	Railines Crossed	Number	1	see Public Safety	NA	NA	
Community Cohesion/ Character	Frontline Exposure	Number of dwelling units exposed	109	see Public Safety	1	2	
	Significant Receptors - Exposure	Number/Specify	10	101	0	0	
Potential Acquisition	Positive/Negative/Neutral	Occupied	Neutral/5	Neutral/5	Neutral/6	Neutral/6	
	Residential Units	Occupied	180	151	0	0	
Protect Community / Neighborhood Characteristics	Environmental Justice / Title VI	Vacant	1	4	0	0	
		Residential Population	441	370	0	0	
		Business Units	17	10	3	0	
		Estimated Employees in affected Census Blocks <sup>2</sup>	14	11	0	0	
		Other Land Uses Affected <sup>3</sup>	Number	50-70	281	151	100
		Schools - Partial Lake Parking Lot	1	0	0	0	
		Senior Service Facilities	0	0	0	0	
		City/Government Facilities	1	2	0	0	
		Places of Worship	4	3	0	0	
		Medical Facilities	1	0	0	0	
State/Federal Government Facilities	1	1	0	0			
Community Services/Parks	0	0	0	0			
EJ Populations in affected Census Block Groups	EJ Population (from poverty)	6689	1524	490	490		
	Population Groups Affected	American Indian, Hispanic	African American, American Indian, Hispanic	African American, American Indian, Hispanic	African American, American Indian, Hispanic		
Title VI - Groups in Census Tracts	% Households in Poverty Above or Below 9.9% Regional Threshold <sup>4</sup>	31.6% Above	39.6% Above	36.2% Above	36.2% Above		
	Households in poverty	866	296	76	76		
Public Safety/ Security (Plaza & Crossing)	Presence of Regionally Prominent Avenues/Groups	None	None	None	None		
	Number of heavy industry businesses w/ 1/2 mile	N/A	3	3	3		
Proximity to Industry <sup>5</sup>	Number of medium industry businesses w/ 1/2 mile	N/A	6	1	1		
	Number of light industry/office businesses w/ 1000ft/300m	N/A	4	0	0		
Proximity to Residential / Retail	Number of residences w/ 500ft/150m	N/A	49	16	13		
	Number of businesses w/ 500ft/150m	N/A	10	4	4		
Proximity to Hazardous Materials	Number of EPA/DEQ Hazard TSD Facilities w/ 500ft/150m	N/A	0	0	0		
	Distance to nearest fire station (m)	N/A	0.6	0.14	0.14		
Emergency Response	Distance to nearest police station (m)	N/A	0.9	1.4	1.4		
	Number of streets closed (perm.)	N/A	14	0	0		
Emergency Response	Number of streets closed (during const.)	N/A	11	1	1		
	Mainline Railines Rerouted	N/A	2	0	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, Military Ave. Church, Michigan Bell Bldg, Fort & Green Police Station, Beard Early Learning School  
 Plaza: Historic Fort Wayne & Southwestern High School  
 Crossing Alt. 1-13 are 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.  
 3. Potential Acquisitions have been field surveyed to determine occupancy status of businesses.  
 Interchange: Partial Beard Early Learning Center, First Latin America, Old Leander Church, Detroit Friends Meeting Quakers, Military Ave. Church, Partial Detroit Public Safety Building/Homeland Security, Metromatrix Human Serv  
 Plaza: Rademacher Recreation Center, Detroit Saver and Water Department, New Day Church, Saint Paul A.M.E. Abundant Life Apostolic Overcoming Holy Church, Family Dependence 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: (H) Mistrysky Power Station, Detroit Thomas Edison Plant, Lafarge (M) Arvin Mentor, Produce Terminal, Hascall Steel, Progressive Distribution Center, Bridgewater Interiors, Yellow Trucking  
 Crossing: (H) Zug Island, Lafarge, Detroit Thomas Edison (M) Yellow Trucking



**Detroit River International Crossing Study  
Evaluation of Practical Alternatives  
Supporting Data - Alternative 02**

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FOR DISCUSSION PURPOSES ONLY  
11-15-06

Evaluation Factor	Performance Measure Category		Description/Units	Interchange		Plaza		Crossing X10A		Crossing X10B	
	Official Plans	Consistency		Yes	Yes1	No	Yes1	Yes	Yes1	Yes	Yes1
Maintain Consistency w/Local Planning	Other Plans	Consistency	YES/NO	4	1	0	0	0	0	0	0
	Environmental Sites Affecting Plan Implementation (single sites may have multiple designations)	Leaking Undergr. Stor. Tanks	YES/NO	1	0	0	0	0	0	0	0
		EPA/DEQ Hazmat TSD Facility	Number	0	0	0	0	0	0	0	0
		National Priority List (Superfund)	Number	1	0	0	0	0	0	0	0
		RTK Cerclis (Superfund)	Number	1	2	2	1	1	1	1	1
	Michigan Contaminated Site	Number	0	3	3	1	1	1	1	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.

**Detroit River International Crossing Study  
Evaluation of Practical Alternatives  
Supporting Data - Alternative 02**

**DRAFT**  
FOR DISCUSSION PURPOSES ONLY  
11-15-06

Evaluation Factor	Performance Measure Category		Description/Units	Interchange	Plaza	Crossing X10A	Crossing X10B
	Historic Districts	Number					
Protect Cultural Resources	Above Ground Historic Resources	Listed NRHP Sites/Structures <sup>1</sup>	Number	0	0	0	0
		Listed SHRS Sites/ Structures	Number	0	0	1	1
		Locally Listed Sites/Structures	Number	0	0	0	0
		Potentially Eligible Sites/Str. <sup>2</sup>	Number	3	1	0	0
	Archaeology	Prev. Recorded Sites <sup>3</sup>	Number	0	2	0	0
	Below Ground Resources <sup>1</sup>	Potential to Find/Record	High/Med/Low	Low	Medium	Medium	Medium
	Parkland	All Public Parks <sup>4</sup>	Number/ Acres	0	1/2.4	0	0
		6(f) Parks	Number/Specify	0	0	0	0
		Coastal Zone Management	Number of Projects/Specify	0	0	0/0	0/0

1. National Registered Historic Places, Historic Fort Wayne  
 2. Interchange: Olivet Church, 707 Lewerenz; Turnsteds (Fisher Body), 6307 W. Fort; Apartment Bldg, 760 Campbell.  
 Plaza: St. Paul A.M.E. Church, 581-585 S. Rademacher  
 3. 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  
 4. Public Parks: Plaza - Rademacher Park



**Detroit River International Crossing Study  
Evaluation of Practical Alternatives  
Supporting Data - Alternative 02**

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Evaluation Factor	Performance Measure Category	Description/Units		Interchange	Plaza	Crossing X10A	Crossing X10B
Protect The Natural Environment	Surface Water	Floodplain	Number/Acres	0	0	3	0
		Surface Run Off	Acres	10	164	11.1	10.4
		Primary Streams <sup>1</sup>	Number/Specify	0	0	1: Detroit R.	1: Detroit R.
	Groundwater	Secondary Streams <sup>2</sup>	Number/Specify	0	0	0	0
		Other Water-crossings	Number/Specify	0	0	0	0
	Significant Habitat	Municipal Wells	Number	0	0	0	0
		Water In-takes	Number/Specify	0	0	0	0
		Wetlands	Acres	0	0	0	0
		Fens / Bogs	Number/Acres	0	0	0/0	0/0
		Endangered Species <sup>3</sup>	Potential Species	0/0	0	0/0	0/0
	Prime/Unique Farmland	Designated Wildlife Refuges	Number/Acres	0	0/0	0/0	0/0
		Farmland	Acres	0	0	0	0
	Mineral Resources	Salt / Limestone	Type/Specify	Salt	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.



# Detroit River International Crossing Practical Alternative #3

PRELIMINARY  
(AS OF 11/15/2006)



Alternative 3 – Preliminary Summary of Impacts

**LEGEND**

- U.S. Plaza & Interchange Footprint
- Interchange & Local Streets
- Canadian Plaza A (X-10A)
- Canadian Plaza A (X-10B)
- Canadian Plaza B (X-10B)
- Crossing X-10A
- Crossing X-10B
- Existing Noise Level (Decibel dBA)  
(Standard for noise mitigation is 67 dBA for residential areas)
- CO: Carbon Monoxide Concentration (ppm)  
(Air Quality standard for 1 hour CO level is 35 ppm, 2035 Peak hour includes 3.4 ppm background)
- BU: # of Active Business Units
- RU: # of Occupied Residential Units

EVALUATION FACTOR	PERFORMING MEASURE	UNITED STATES SUMMARY				CANADIAN SUMMARY		
		INTERCHANGE	PLAZA	CROSSING		X-10A/PLAZA A	X-10B/PLAZA A	X-10B/PLAZA B1
				X-10A	X-10B			
PROTECT COMMUNITY NEIGHBORHOOD CHARACTERISTICS	TRAFFIC	STREETS CLOSED	9	14	0	0	12	
	NOISE	FRONTLINE EXPOSURE (TOTAL RESIDENTIAL)	101	101	0	0	21 (perceptors > 5 dB increase)	
		POTENTIAL ACQUISITION	OCCUPIED RESIDENTIAL	190	151	0	0	23 (perceptors > 5dB increase)
	MAINTAIN CONSISTENCY WITH LOCAL PLANNING	OFFICIAL PLANS ENVIRONMENTAL SITES AFFECTING PLAN IMPLEMENTATION	CONCISTENCY	Yes	No	Yes	Yes	0
NUMBER			4	6	2	2	5	
ABOVEGROUND HISTORIC/ON NATIONAL REGISTER			NUMBER	0	0	1-FORT WAYNE	1-FORT WAYNE	0
PROTECT CULTURAL RESOURCES	POTENTIALLY ELIGIBLE FOR REGISTER STRUCTURES	NUMBER/SITE	3-OLIVEY CHURCH, FISHER BODY APART BUILDING	1-ST. PAUL A.M.E	0	0	0	
		ARCHAEOLOGIC SITES	NUMBER	0	2	0	0	0
		PARKLANDS	NUMBER/SITE	0	1-RADEMACHER PARK	0	0	0
PROTECT THE NATURAL ENVIRONMENT	SIGNIFICANT HABITAT (D-Endangered / PL-Potential)	NUMBER/SITE	0	0	0	0	0	
		IMPROVE REGIONAL MOBILITY (Goal to 2035 Volume)	2035 AVERAGE DAILY TWO-WAY CROSSING VOLUME (ADT)	SEE CROSSING DATA	SEE CROSSING DATA	37,000	37,000	37,000
CONSTRUCTABILITY (All System Components are Constructable)	KEY ISSUES	REFER TO INDIVIDUAL CROSSING COMPONENT	UTILITY RELOCATION, POTENTIAL CONTAMINATED SOILS	UTILITY RELOCATION, BRAIDED RAMPS	BRIDGE LENGTH /COMPLEXTY, CONTAMINATED SOILS	CONTAMINATED SOILS, UTILITIES	POWER STATION/UTILITIES, RAIL LINE	
		MAINTAIN AIR QUALITY	ONE HOUR CO CONCENTRATION HOT SPOTS	REFER TO GRAPHIC				INCREASES IN PM2.5 AND NOx IN VICINITY OF CROSSING, APPROACH ROADWAY, AND PLAZA.



**Detroit River International Crossing Study**  
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Evaluation Factor	Performance Measure Category	Description/Units	Interchange	Plaza	Crossing X10A	Crossing X10B	
							Traffic Impacts
Traffic Impacts	Streets Closed (permanently)	Number	9	see Public Safety	0	0	
	Streets Crossed	Number	13	see Public Safety	2	2	
	Streets Rerouted	Number	4	see Public Safety	0	0	
	Streets with Interchange	Number	1	see Public Safety	NA	NA	
	Railines Crossed	Number	2	see Public Safety	1	2	
	Frontline Exposure	Number of dwelling units exposed	101	101	0	0	
	Significant Exposures - Exposure	Number/Spacity	2	2	2	2	
	Positive/Negative/Neutral		Neutral <sup>5</sup>	Neutral <sup>6</sup>	Neutral <sup>6</sup>	Neutral <sup>6</sup>	
	Potential Acquisition	Residential Units	Occupied	190	151	0	0
			Vacant	4	4	0	0
Residential Population		Number	466	372	0	0	
Business Units		Active	25	18	3	2	
		Vacant	19	11	0	0	
Estimated Employees in affected Census Blocks <sup>7</sup>		Number	90-130	291	151	100	
Schools - Partial Lake Parking Lot		Number	0	0	0	0	
Senior Service Facilities		Number	0	0	0	0	
City/Government Facilities		Number	1	2	0	0	
Places of Worship		Number	4	3	0	0	
Medical Facilities	Number	1	0	0	0		
State/Federal Government Facilities	Number	0	0	0	0		
Community Service/Parish	Number	0	0	0	0		
Vacant	Number	0	0	0	0		
EJ Population (non poverty)	Number	5619	1524	480	480		
EJ Populations in affected Census Block Groups	Population Groups Affected	Number	American Indian, Hispanic	African American, American Indian, Hispanic	African American, American Indian, Hispanic	African American, American Indian, Hispanic	
	% Households in Poverty / Above or Below 9.9% Regional Threshold <sup>8</sup>	Percentage	32.4%/Above	39.9%/Above	36.2%/Above	36.2%/Above	
	Households in poverty	Number	717	296	76	76	
	Presence of Regionally Prominent Ancestral Groups	Number	None	None	None	None	
	Number of heavy industry businesses w/ 1/2 mile	Number	N/A	3	3	3	
	Number of medium industry businesses w/ 1/2 mile	Number	N/A	5	1	1	
	Number of light industry/office businesses w/ 1000ft/300m	Number	N/A	4	0	0	
	Number of businesses w/ 500ft/150m	Number	N/A	49	16	13	
	Number of EPA/DEQ Hazardous TSD Facilities w/ 500ft/150m	Number	N/A	10	4	4	
	Distance to nearest fire station (mi)	Distance	N/A	0.6	0.14	0.14	
Distance to nearest police station (mi)	Distance	N/A	0.9	0.4	0.4		
Number of streets closed (perm)	Number	N/A	11	0	0		
Number of streets closed (during const.)	Number	N/A	1	1	1		
Maritime Railines Rerouted	Number	N/A	2	0	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 Abrego Altisimo, Michigan Ball Bldg, Fort & Green Police Station, Board Early Learning School  
 Plaza: Historic Fort Wayne & Southwestern High School  
 Crossing Alt: 1-13 are Historic Fort Wayne & DeRoy 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, Parish Detroit Public Safety Building  
 Plaza: Historic Fort Wayne & Southwestern High School  
 Crossing Alt: 1-13 are Historic Fort Wayne & DeRoy Park Public Boat Launch  
 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.  
 PPD Receptors: Southwestern High School, Act. 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: (H) Mestersky Power Station, Detroit Thomas Edison Plant, Lalarge (M) Arvin Monitor, Produce Terminal, Hascall Steel, Progressive Distribution Center, Bridgewater Interiors, Yellow Trucking  
 Crossing: (H) Zug Island, Lafarge, Detroit Thomas Edison (M) Yellow Trucking

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Evaluation Factor	Performance Measure Category		Description/Units	Interchange	Plaza	Crossing X10A	Crossing X10B
	Official Plans	Consistency					
Maintain Consistency w/Local Planning	Other Plans	Consistency	YES/NO	Yes	No	Yes	Yes
	Environmental Sites Affecting Plan Implementation (single sites may have multiple designations)	Leaking Undergrd. Stor. Tanks	YES/NO	Yes1	Yes1	Yes1	Yes1
		EPA/DEQ Hazmat TSD Facility	Number	3	1	0	0
		National Priority List (Superfund)	Number	1	0	0	0
		RTK Cerclis (Superfund)	Number	0	0	0	0
	Michigan Contaminated Site	Number	0	2	1	1	
				0	3	1	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.

**Detroit River International Crossing Study  
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Evaluation Factor	Performance Measure Category		Description/Units	Interchange	Plaza	Crossing X10A	Crossing X10B	
	Historic Districts	Number						
Protect Cultural Resources	Above Ground Historic Resources	Listed NRHP Sites/Structures <sup>1</sup>	Number	0	0	0	0	
		Listed SHRS Sites/ Structures	Number	0	0	1	1	
		Locally Listed Sites/Structures	Number	0	0	0	0	
		Potentially Eligible Sites/Str. <sup>2</sup>	Number	3	1	0	0	
	Archaeology	Prev. Recorded Sites <sup>3</sup>	Number	0	2	0	0	
	Below Ground Resources <sup>1</sup>	Potential to Find/Record	High/Med/Low	Low	Medium	Medium	Medium	
		All Public Parks <sup>4</sup>	Number/ Acres	0	1/2.4	0	0	
		6(f) Parks	Number/Specify	0	0	0	0	
	Parkland	Coastal Zone Management		Number of Projects/Specify	0	0	0/0	0/0

- National Registered Historic Places, Historic Fort Wayne
- Interchange: Olivet Church, 707 Lewerenz; Turnsteeds (Fisher Body), 6307 W. Fort; Apartment Bldg, 760 Campbell.  
Plaza: St. Paul A.M.E. Church, 581-585 S. Rademacher
- 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 [Poik's Detroit City Directory 1886:68]); 20WN6, Carsten Mound
- Public Park: Plaza - Rademacher Park



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Evaluation Factor	Performance Measure Category	Description/Units		Interchange	Plaza	Crossing X10A	Crossing X10B
Protect The Natural Environment	Surface Water	Floodplain	Number/Acres	0	0	3	0
		Surface Run Off	Acres	10	164	11.1	10.4
		Primary Streams <sup>1</sup>	Number/Specify	0	0	1: Detroit R.	1: Detroit R.
	Groundwater	Secondary Streams <sup>2</sup>	Number/Specify	0	0	0	0
		Other Water-crossings	Number/Specify	0	0	0	0
	Significant Habitat	Municipal Wells	Number	0	0	0	0
		Water In-takes	Number/Specify	0	0	0	0
		Wetlands	Acres	0	0	0	0
	Prime/Unique Farmland	Fens / Bogs	Number/Acres	0	0	0/0	0/0
		Endangered Species <sup>3</sup>	Potential Species	0/0	0	0/0	0/0
	Mineral Resources	Designated Wildlife Refuges	Number/Acres	0	0/0	0/0	0/0
		Farmland	Acres	0	0	0	0
		Salt / Limestone	Type/Specify	Salt	Salt	Salt	Salt

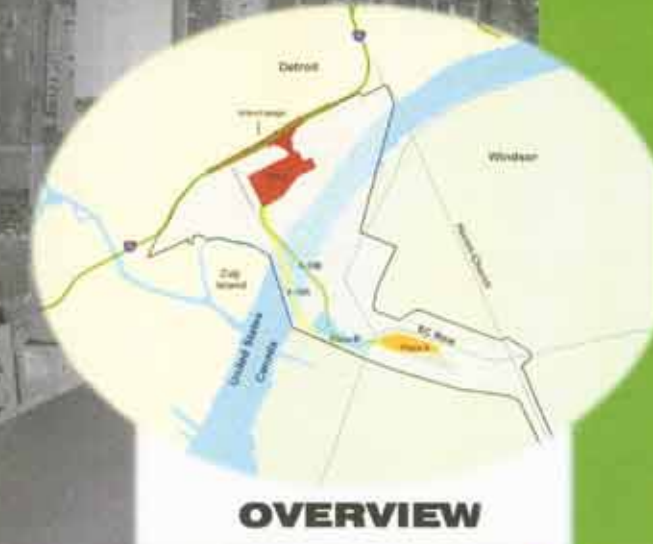
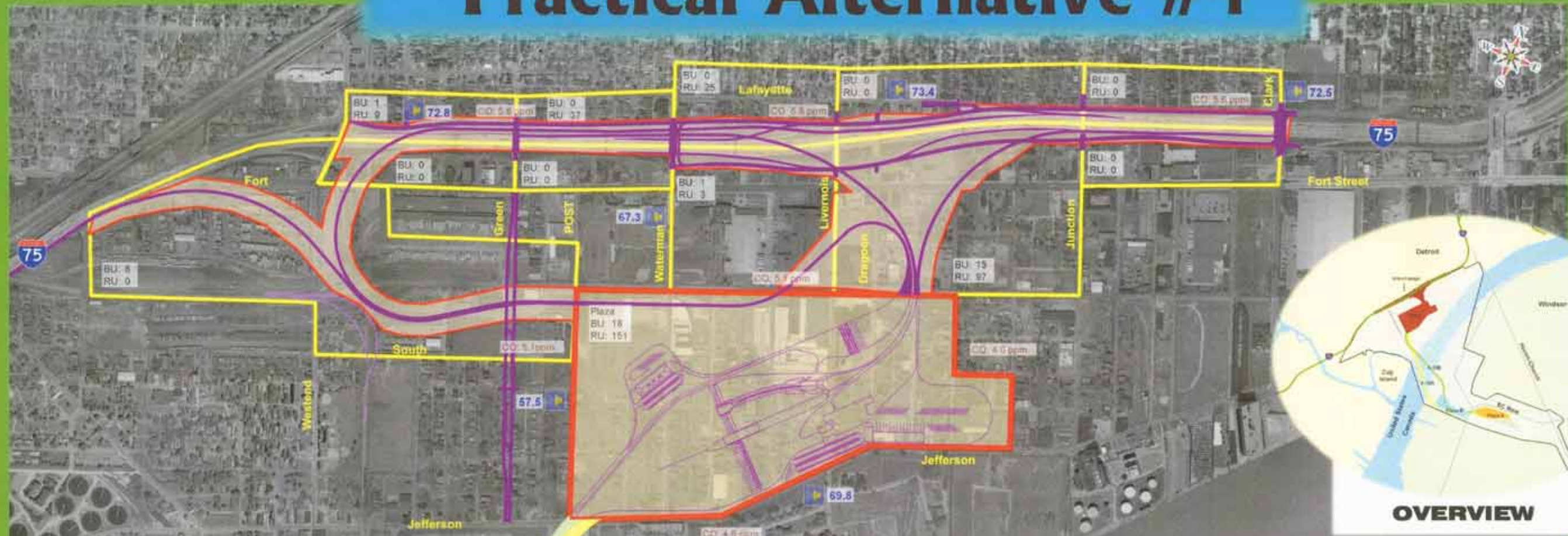
**Notes:**

- Primary Streams are classified as water courses with an average width greater than 50ft/15m
  - Secondary streams are classified as water courses with an average width less than 50ft/15m.
  - 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.



# Detroit River International Crossing Practical Alternative #4

PRELIMINARY  
(AS OF 11/15/2006)



Alternative 4 – Preliminary Summary of Impacts

**LEGEND**

- U.S. Plaza & Interchange Footprint
- Interchange & Local Streets
- Canadian Plaza A (X-10A)
- Canadian Plaza A (X-10B)
- Canadian Plaza B (X-10B)
- Crossing X-10A
- Crossing X-10B
- Existing Noise Level (Decibel dBA)  
(Standard for noise mitigation is 67 dBA for residential areas)
- CO: Carbon Monoxide Concentration (ppm)  
(Air Quality standard for 1 hour CO level is 35 ppm, 2035 Peak hour includes 3.4 ppm background)
- BU: # of Active Business Units
- RU: # of Occupied Residential Units

EVALUATION FACTOR	PERFORMING MEASURE	UNITED STATES SUMMARY				CANADIAN SUMMARY		
		INTERCHANGE	PLAZA	CROSSING		X-10A/PLAZA A	X-10B/PLAZA A	X-10B/PLAZA B1
				X-10A	X-10B			
PROTECT COMMUNITY NEIGHBORHOOD CHARACTERISTICS	TRAFFIC	STREETS CLOSED	9	14	0	0	12	
	NOISE	FRONTLINE EXPOSURE (TOTAL RESIDENTIAL)	107	181	0	0	23 (receptors > 5dB increase)	
	POTENTIAL ACQUISITION	OCCUPIED RESIDENTIAL	171	151	0	0	36 (receptors > 5dB increase)	
MAINTAIN CONSISTENCY WITH LOCAL PLANNING	OFFICIAL PLANS	CONSISTENCY	Yes	No	Yes	Yes	Yes	
	ENVIRONMENTAL SITES AFFECTING PLAN IMPLEMENTATION	NUMBER	9	6	2	2	5	
	ABOVEGROUND HISTORICAL NATIONAL REGISTER	NUMBER	0	0	1-FORT WAYNE	1-FORT WAYNE	0	
PROTECT CULTURAL RESOURCES	POTENTIALLY ELIGIBLE FOR REGISTER STRUCTURES	NUMBER/SITE	4-ALL SAINTS CHURCH, PRODUCE TERMINAL, FISHER BODY, APART BLDG.	1-ST. PAUL A.M.S.	0	0	N/A	
	ARCHAEOLOGIC SITES	NUMBER	0	2	0	0	0	
	PARKLANDS	NUMBER/SITE	0	1-BADENACHER PARK	0	0	0	
PROTECT THE NATURAL ENVIRONMENT	SIGNIFICANT HABITAT (E.D. Ecological / P. Potential)	NUMBER/SITE	0	0	0	0	0	
	2035 AVERAGE DAILY TWO-WAY CROSSING VOLUME (ADT)	2035 ADT	SEE CROSSING DATA	SEE CROSSING DATA	30,100	30,100	30,100	
	KEY ISSUES	REFER TO INDIVIDUAL CROSSING COMPONENTS	UTILITY RELOCATION, POTENTIAL CONTAMINATED SOILS	UTILITY RELOCATION, BRANDED RAMPS	BRIDGE LENGTH, COMPLETELY CONTAMINATED SOILS	CONTAMINATED SOILS, UTILITIES	POWER STATION/UTILITIES, RAIL LINE	
IMPROVE REGIONAL MOBILITY (Goal in 2035)	2035 AVERAGE DAILY TWO-WAY CROSSING VOLUME (ADT)	2035 ADT	SEE CROSSING DATA	SEE CROSSING DATA	30,100	30,100	30,100	
CONSTRUCTIBILITY (in System Components - see Constructibility)	KEY ISSUES	REFER TO INDIVIDUAL CROSSING COMPONENTS	UTILITY RELOCATION, POTENTIAL CONTAMINATED SOILS	UTILITY RELOCATION, BRANDED RAMPS	BRIDGE LENGTH, COMPLETELY CONTAMINATED SOILS	CONTAMINATED SOILS, UTILITIES	POWER STATION/UTILITIES, RAIL LINE	
MAINTAIN AIR QUALITY	ONE HOUR CO CONCENTRATION HOTSPOTS		REFER TO GRAPHIC				INCREASES IN PHA 2 AND HIGH IN VICINITY OF CROSSING, APPROACH ROADWAY, AND PLAZA	



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Evaluation Factor	Performance Measure Category	Description/Units	Interchange		Crossing X10A		Crossing X10B	
			Plaza	Plaza	Crossing X10A	Crossing X10B		
Traffic Impacts	Streets Closed (permanently)	Number	9	see Public Safety	0	0	0	
	Streets Crossed	Number	12	see Public Safety	2	2	2	
	Streets Rerouted	Number	3	see Public Safety	0	0	0	
	Streets with Interchange	Number	2	see Public Safety	NA	NA	NA	
	Railines Crossed	Number	5	see Public Safety	1	2	2	
Noise	Frontline Exposure	Number of dwelling units exposed	107	101	0	0	0	
	Significant Receptors - Exposures	Number/Spacity	7	2	2	2	2	
Community Cohesion/ Character	Positive/Negative/Neutral		Neutral <sup>6</sup>	Neutral <sup>6</sup>	Neutral <sup>6</sup>	Neutral <sup>6</sup>	Neutral <sup>6</sup>	
	Residential Units	Occupied	171	151	0	0	0	
		Vacant	1	4	0	0	0	
	Residential Population	Number	419	370	0	0	0	
	Business Units	Active	25	16	3	2	2	
		Vacant	16	11	0	0	0	
	Estimated Employees in affected Census Blocks <sup>2</sup>	Number	90-130	281	151	100	100	
	Potential Acquisition	Schools - Partial Lake Parking Lot	1	0	0	0	0	
		Senior Service Facilities	0	0	0	0	0	
		City/Government Facilities	0	2	0	0	0	
Places of Worship		4	3	0	0	0		
Medical Facilities		0	0	0	0	0		
State/Federal Government Facilities		0	1	0	0	0		
Protect Community / Neighborhood Characteristics	Other Land Uses Affected <sup>3</sup>	Community Services/Parks	0	0	0	0	0	
		Vacant	0	0	0	0	0	
		EJ/Population (non poverty)	6757	1524	490	490	490	
	EJ Populations in affected Census Block Groups	American Indian, Hispanic	American Indian, Hispanic	African American, American Indian, Hispanic	African American, American Indian, Hispanic	African American, American Indian, Hispanic	African American, American Indian, Hispanic	
		% Households in Poverty / Above or Below 9% Regional Threshold <sup>4</sup>	Households in poverty	33.7%/Above	39.6%/Above	36.2%/Above	36.2%/Above	
	Environmental Justice / Title VI	Title VI - Groups in Census Tracts	Presence of Regionally Prominent Ancestral Groups	None	None	None	None	
		Public Safety/ Security (Plaza & Crossing)	Number of heavy industry businesses w/ 1/2 mile	N/A	3	3	3	
			Number of medium industry businesses w/ 1/2 mile	N/A	6	1	1	
			Number of light industry/office businesses w/ 1000ft/300m	N/A	4	0	0	
			Number of residences w/ 500ft/150m	N/A	49	16	13	
Emergency Response	Number of businesses w/ 500ft/150m w/ 5000/1500	N/A	10	4	4			
	Distance to nearest fire station (m)	N/A	0	0	0			
	Distance to nearest police station (m)	N/A	0.6	0.14	0.14			
	Number of streets closed (perm.)	N/A	0.9	1.4	1.4			
	Number of streets closed (during const.)	N/A	11	1	1			
	Mainline Realines Rerouted	N/A	2	0	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: Old Landmark Church, Faith Tabernacle Church, New Beginning, El Abrigo Altísimo, Michigan Bell Bldg, Fort & Green Police Station  
 Plaza: Historic Fort Wayne & Southwestern High School  
 Crossing Alt. 1-13 are 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: Board Early Learning Center, First Latin America Detroit Friends Meeting Quakers, All Saints Church, Military Ave. Church  
 Plaza: Rademacher Recreation Center, Detroit Sewer and Water Department, New Day Church, Saint Paul AME, Abundant Life Apostolic Overcoming Holy Church, Family Independence Agency  
 Crossing Alt. 1-13 are Historic Fort Wayne & Delray Park Public Boat Launch  
 4. The poverty threshold for the SEPCOC region is 9.9%. Block groups with percentage of households living in poverty above 9.9% qualify as environmental justice communities.  
 5. Community Cohesion could/will be improved as a result of the master planning for the Dr. P.T. Williams Community Center, and how the crossing system fits with that fabric.  
 6. Plaza (H) Mestersky Power Station, Detroit Thomas Edison Plant, Lafarge (M) Avin Meritor, Produce Terminal, Hascall Steel, Progressive Distribution Center, Bridgewater Interiors, Yellow Trucking  
 Crossing: (H) Zug Island, Lafarge, Detroit Thomas Edison (M) Yellow Trucking



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Evaluation Factor	Performance Measure Category		Description/Units	Interchange		Plaza		Crossing X10A		Crossing X10B	
	Official Plans	Consistency		YES/NO	Yes	No	Yes	Yes	Yes	Yes	
Maintain Consistency w/Local Planning	Other Plans	Consistency	YES/NO	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
	Environmental Sites	Consistency	YES/NO	5	1	0	0	0	0	0	0
	Affecting Plan	Leaking Undrgd. Stor. Tanks	Number	1	0	0	0	0	0	0	0
	Implementing	EPA/DEQ Hazmat TSD Facility	Number	0	0	0	0	0	0	0	0
	(single sites may have multiple designations)	National Priority List (Superfund) RTK Cerclis (Superfund) Michigan Contaminated Site	Number	2	2	2	1	1	1	1	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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Evaluation Factor	Performance Measure Category		Description/Units	Interchange	Plaza	Crossing X10A	Crossing X10B
	Above Ground Historic Resources	Historic Districts					
<b>Protect Cultural Resources</b>		Listed NRHP Sites/Structures <sup>1</sup>	Number	0	0	0	0
		Listed SHRS Sites/ Structures	Number	0	0	1	1
		Locally Listed Sites/Structures	Number	0	0	0	0
		Potentially Eligible Sites/Str. <sup>2</sup>	Number	4	1	0	0
		Archaeology	Prev. Recorded Sites <sup>3</sup>	Number	0	2	0
		Below Ground Resources <sup>1</sup>	Potential to Find/Record	High/Med/Low	Low	Medium	Medium
		Parkland	All Public Parks <sup>4</sup>	Number/ Acres	0	1/2.4	0
		6(f) Parks	Number/Specify	0	0	0	
		Coastal Zone Management	Number of Projects/Specify	0	0	0/0	

1. National Registered Historic Places, Historic Fort Wayne
2. Interchange: All Saints Church, 7800 W. Fort; Produce Terminal, 7201 W. Fort; Turnsteads (Fisher Body), 6307 W. Fort; Apartment Bldg, 760 Campbell.  
 Plaza: St. Paul A.M.E. Church, 581-585 S. Rademacher
3. 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" [Poik's Detroit City Directory 1886-68]); 20WN6, Carsten Mound
4. Public Park: Plaza - Rademacher Park



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Evaluation Factor	Performance Measure Category		Description/Units	Interchange	Plaza	Crossing X10A	Crossing X10B
	Surface Water	Groundwater					
Protect The Natural Environment	Floodplain		Number/Acres	0	0		0
	Surface Run Off		Acres	14	164	11.1	10.4
	Primary Streams <sup>1</sup>		Number/Specify	0	0	1: Detroit R.	1: Detroit R.
	Secondary Streams <sup>2</sup>		Number/Specify	0	0	0	0
	Other Water-crossings		Number/Specify	0	0	0	0
	Municipal Wells		Number	0	0	0	0
	Water In-lakes		Number/Specify	0	0	0	0
	Wetlands		Acres	0	0	0	0
	Fens / Bogs		Number/Acres	0	0	0/0	0/0
	Endangered Species <sup>3</sup>		Potential Species	0/0	0	0/0	0/0
	Designated Wildlife Refuges		Number/Acres	0	0/0	0/0	0/0
	Prime/Unique Farmland		Acres	0	0	0	0
	Mineral Resources		Type/Specify	Salt	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.



# Detroit River International Crossing Practical Alternative #5

PRELIMINARY  
(AS OF 11/15/2006)



OVERVIEW

Alternative 5 – Preliminary Summary of Impacts

EVALUATION FACTOR	PERFORMING MEASURE	UNITED STATES SUMMARY				CANADIAN SUMMARY			
		INTERCHANGE	PLAZA	CROSSING		X-10A/PLAZA A	X-10B/PLAZA A	X-10B/PLAZA B1	
				X-10A	X-10B				
PROTECT COMMUNITY NEIGHBORHOOD CHARACTERISTICS	TRAFFIC NOISE	STREETS CLOSED	6	14	0	0	12		
	POTENTIAL ACQUISITION	FRONTLINE EXPOSURE (TOTAL RESIDENTIAL)	88	101	4	4	21 (Inceptors > 5dB increase)	21 (Inceptors > 5dB increase)	23 (Inceptors > 5dB increase)
		OCCUPIED RESIDENTIAL	233	151	0	0	67	70	56
		ACTIVE BUSINESSES	25	18	3	2	0	0	1
PLACES OF WORSHIP/SCHOOLS	3-OLD LANDMARK CHURCH, MILITARY CHURCH, BEARD SCHOOL (PARTIAL)	0	0	0	0	1-SOCIAL FEATURE (INSTITUTIONAL-ERR WILDLIFE RESCUE)	1-SOCIAL FEATURE (INSTITUTIONAL-ERR WILDLIFE RESCUE)	1-SOCIAL FEATURE (INSTITUTIONAL-ERR WILDLIFE RESCUE)	
	3-NEW DAY CHURCH, SAINT PAUL CHURCH, ABUNDANT LIFE CHURCH	0	0	0	0	0	0	0	
MAINTAIN CONSISTENCY WITH LOCAL PLANNING	OFFICIAL PLANS	CONSISTENCY NUMBER	Yes	No	Yes	Yes	No (Plans)	No (Plans)	Yes
	ENVIRONMENTAL SITES AFFECTING PLAN IMPLEMENTATION	NUMBER	3	6	2	2	0	2	5
PROTECT CULTURAL RESOURCES	ABOVEGROUND HISTORIC/NATIONAL REGISTER	NUMBER	0	0	1-FORT WAYNE	1-FORT WAYNE	0	0	0
	POTENTIALLY ELIGIBLE FOR REGISTER STRUCTURES	NUMBER/SITE	0	0	0	0	0	0	0
	ARCHAEOLOGIC SITES/PARKLANDS	NUMBER NUMBER/SITE	0 0	2 1-RADEMACHER PARK	0 0	0 0	1-CLIBWAY PARK (0.7 ha)	1-CLIBWAY PARK (0.7 ha)	1-CLIBWAY PARK (0.7 ha)
PROTECT THE NATURAL ENVIRONMENT	SIGNIFICANT HABITAT (E-D-Endangered / P-Potential)	NUMBER/SITE	0	0	0	0	2.9 ha TALLGRASS PRAIRIE, 0.2 ha FISH BUTLER'S GARTERSNAKE	2.9 ha TALLGRASS PRAIRIE, 0.2 ha FISH BUTLER'S GARTERSNAKE	2.9 ha TALLGRASS PRAIRIE, 0.2 ha FISH BUTLER'S GARTERSNAKE
IMPROVE REGIONAL MOBILITY (Goal to 2035 Volume)	2035 AVERAGE DAILY TWO-WAY CROSSING VOLUME (ADT)	2035 ADT	SEE CROSSING DATA	SEE CROSSING DATA	37,400	37,400	37,400	37,400	37,400
CONSTRUCTABILITY (All System Components are Constructible)	KEY ISSUES	REFER TO INDIVIDUAL CROSSING COMPONENT	UTILITY RELOCATION, POTENTIAL CONTAMINATED SOILS	UTILITY RELOCATION, BRAIDED RAMPS	BRIDGE LENGTH, COMPLEXITY, CONTAMINATED SOILS	CONTAMINATED SOILS, UTILITIES	POWER STATION/UTILITIES, RAIL LINE	POWER STATION/UTILITIES, RAIL LINE	POWER STATION/UTILITIES, RAIL LINE
MAINTAIN AIR QUALITY	ONE HOUR CO CONCENTRATION HOTSPOTS		REFER TO GRAPHIC				INCREASES IN PM2.5 AND NOx IN VICINITY OF CROSSING, APPROACH ROADWAY, AND PLAZA.		

LEGEND

- U.S. Plaza & Interchange Footprint
- Interchange & Local Streets
- Canadian Plaza A (X-10A)
- Canadian Plaza A (X-10B)
- Canadian Plaza B (X-10B)
- Crossing X-10A
- Crossing X-10B
- Existing Noise Level (Decibel dBA)  
(Standard for noise mitigation is 67 dBA for residential areas)
- CO: Carbon Monoxide Concentration (ppm)  
(Air Quality standard for 1 hour CO level is 35 ppm, 2035 Peak hour includes 3.4 ppm background)
- BU: # of Active Business Units
- RU: # of Occupied Residential Units

37,400 ADT





**Detroit River International Crossing Study  
Evaluation of Practical Alternatives  
Supporting Data - Alternative 05**

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FOR DISCUSSION PURPOSES ONLY  
11-15-06

Evaluation Factor	Performance Measure Category		Description/Units	Interchange	Plaza	Crossing X10A	Crossing X10B
	Official Plans	Consistency					
Maintain Consistency w/Local Planning	Other Plans	Consistency	YES/NO	Yes	No	Yes	Yes
	Environmental Sites Affecting Plan Implementation (single sites may have multiple designations)	Consistency	YES/NO Number	Yes1 3	Yes1 1	Yes1 0	Yes1 0
	Leaking Undgrd. Stor. Tanks		Number	1	0	0	0
	EPA/DEQ Hazmat TSD Facility		Number	0	0	0	0
	National Priority List (Superfund) RTK Cerclis (Superfund) Michigan Contaminated Site		Number	1 0	2 3	1 1	1 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.

**DRAFT**  
 FOR DISCUSSION PURPOSES ONLY  
 11-15-06

**Detroit River International Crossing Study  
 Evaluation of Practical Alternatives  
 Supporting Data - Alternative 05**

Evaluation Factor	Performance Measure Category		Description/Units	Interchange	Plaza	Crossing X10A	Crossing X10B
	Historic Districts	Listed NRHP Sites/Structures <sup>1</sup>					
Protect Cultural Resources	Above Ground Historic Resources	Listed SHRS Sites/ Structures	Number	0	0	0	0
		Locally Listed Sites/Structures	Number	0	0	1	1
		Potentially Eligible Sites/Str. <sup>2</sup>	Number	0	0	0	0
		Archaeology	Number	3	1	0	0
	Below Ground Resources <sup>3</sup>	Pre. Recorded Sites <sup>3</sup>	Number	0	2	0	0
		Potential to Find/Record	High/Med/Low	Low	Medium	Medium	Medium
	Parkland	All Public Parks <sup>4</sup>	Number/ Acres	0	1/2.4	0	0
		6(f) Parks	Number/Specify	0	0	0	0
		Coastal Zone Management	Number of Projects/Specify	0	0	0/0	0/0

1. National Registered Historic Places, Historic Fort Wayne
2. Interchange: Olivet Church, 707 Lewerenz; Apartment Bldg, 760 Campbell; Detroit Savings Bank, 5705 W. Fort. Plaza: St. Paul A.M.E. Church, 581-585 S. Rademacher
3. 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" [Poik's Detroit City Directory 1886-68]); 20WN6, Carsten Mound
4. Public Park: Plaza - Rademacher Park



**Detroit River International Crossing Study  
Evaluation of Practical Alternatives  
Supporting Data - Alternative 05**

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FOR DISCUSSION PURPOSES ONLY  
11-15-06

Evaluation Factor	Performance Measure Category	Description/Units		Interchange	Plaza	Crossing X10A	Crossing X10B
Protect The Natural Environment	Surface Water	Floodplain	Number/Acres	0	0		
		Surface Run Off	Acres	11	164	11.1	3
		Primary Streams <sup>1</sup>	Number/Specify	0	0	1: Detroit R.	1: Detroit R.
	Groundwater	Secondary Streams <sup>2</sup>	Number/Specify	0	0	0	0
		Other Water-crossings	Number/Specify	0	0	0	0
	Significant Habitat	Municipal Wells	Number	0	0	0	0
		Water In-takes	Number/Specify	0	0	0	0
		Wetlands	Acres	0	0	0	0
		Fens / Bogs	Number/Acres	0	0	0/0	0/0
		Endangered Species <sup>3</sup>	Potential Species	0/0	0	0/0	0/0
	Prime/Unique Farmland	Designated Wildlife Refuges	Number/Acres	0	0/0	0/0	0/0
		Farmland	Acres	0	0	0	0
	Mineral Resources	Salt / Limestone	Type/Specify	Salt	Salt	Salt	Salt

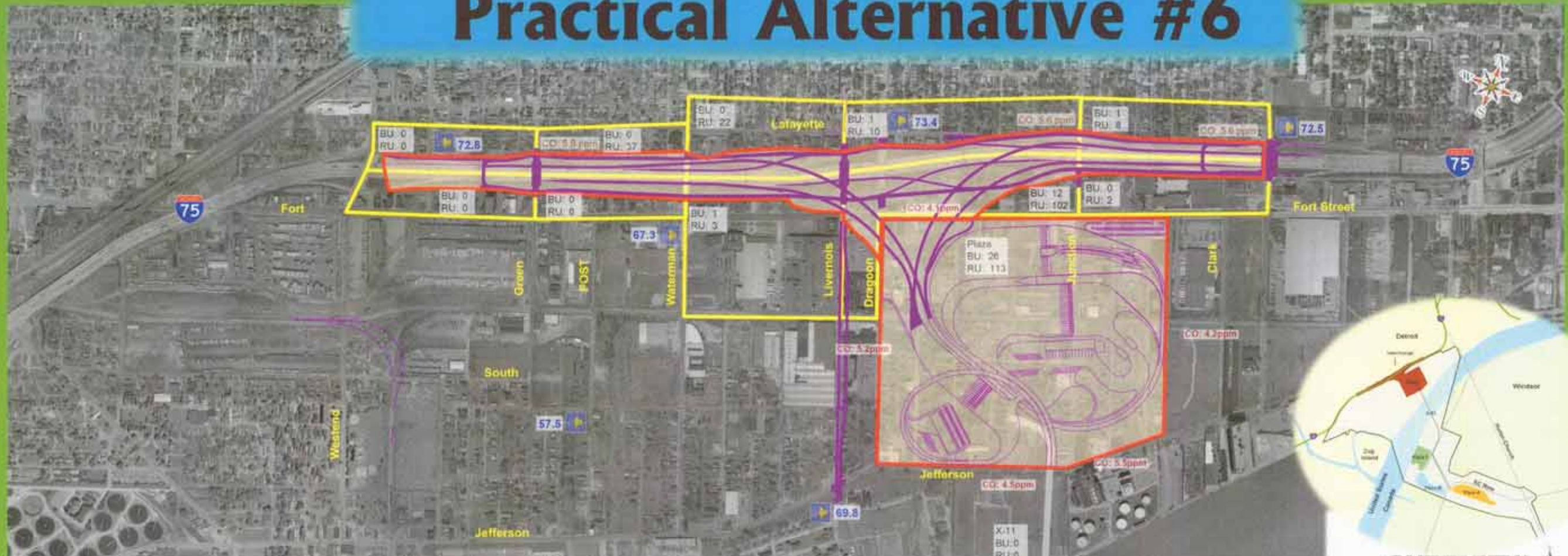
**Notes:**

- 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.



# Detroit River International Crossing Practical Alternative #6

PRELIMINARY  
(AS OF 11/15/2006)



Alternative 6 – Preliminary Summary of Impacts

EVALUATION FACTOR	UNITED STATES SUMMARY					CANADIAN SUMMARY		
	PERFORMING MEASURE	INTERCHANGE	PLAZA	CROSSING		X-11(CEG/C-G)/ PLAZA A	X-11/ PLAZA B	X-11/ PLAZA C
PROTECT COMMUNITY NEIGHBORHOOD CHARACTERISTICS	TRAFFIC	STREETS CLOSED	8	14	0	3/4	14	5
	NOISE	FRONTLINE EXPOSURE (TOTAL RESIDENTIAL)	109	95	0	180 (receptors > 5dB increase)	180 (receptors > 5dB increase)	180 (receptors > 5dB increase)
		POTENTIAL ACQUISITION	OCCUPIED RESIDENTIAL	184	113	0	72/67	38
			ACTIVE BUSINESSES	15	24	0	9/9	9
		SIGNIFICANT OTHER	4-FIRST LATIN BAPTIST, DETROIT FRIENDS MEETING QUARTERS, OLD LANDMARK CHURCH, BEARD SCHOOL (PARTIAL)	1-GREATER APOSTOLIC FAITH CHURCH	0	1-SOCIAL FEATURE (INSTITUTIONAL)-ERE WILDIFE RESCUE	1-SOCIAL FEATURE (INSTITUTIONAL)-ERE WILDIFE RESCUE	1-SOCIAL FEATURE (INSTITUTIONAL)-ERE WILDIFE RESCUE
MAINTAIN CONSISTENCY WITH LOCAL PLANNING	OFFICIAL PLANS AFFECTING ENVIRONMENTAL SITES	CONSISTENCY NUMBER	YES	YES	YES	NO (Plaza A)/YES 11/2	YES 11	YES 12
	ABOVEGROUND HISTORIC/NATIONAL REGISTER	NUMBER	0	0	1-FORT WAYNE	0/0	9	9
PROTECT CULTURAL RESOURCES	POTENTIALLY ELIGIBLE FOR REGISTER STRUCTURES	NUMBER/SITE	2-OLIVET CHURCH, APART BUILDING	2-ROBERTS BRASS BLDG, DETROIT SAVINGS BANK	1-MESTERKEY	N/A	N/A	N/A
	ARCHAEOLOGIC SITES/PARKLANDS	NUMBER/SITE	0	2	1	0/0	6	6
PROTECT THE NATURAL ENVIRONMENT	SIGNIFICANT HABITAT	NUMBER/SITE	0	1-DETROIT CITY PARK	0	1-OJBWAY PARK (0.7 ha)	1-OJBWAY PARK (0.7 ha)	1-OJBWAY PARK (0.7 ha)
			0	0	0	2.9 ha TALLGRASS PRAIRIE, 0.2 ha FISH, BUTLER'S GARTERSNAKE	2.9 ha TALLGRASS PRAIRIE, 0.2 ha FISH, BUTLER'S GARTERSNAKE, ENCROACH BLACK OAK WOODS	0.5 ha TALLGRASS PRAIRIE, 0.7 ha FISH, BUTLER'S GARTERSNAKE
IMPROVE REGIONAL MOBILITY (Based to 2035 Volume)	2035 AVERAGE DAILY TWO-WAY CROSSING VOLUME (ADT)	2035 ADT	SEE CROSSING DATA	SEE CROSSING DATA	32,000	32,000	32,000	
CONSTRUCTABILITY (All System Components are Constructible)	KEY ISSUES	REFER TO INDIVIDUAL CROSSING COMPONENT	UTILITY RELOCATION, POTENTIAL CONTAMINATED SOILS	SIGNIFICANT SEWER RELOCATION, POTENTIAL CONTAMINATED SOILS, RAILWAY RELOCATION	CONTAMINATED SOILS	STERLING FUELS, POWER STATION/UTILITIES, RAIL LINE	STERLING FUELS, POWER STATION/UTILITIES, RAIL LINE	STERLING FUELS, POWER STATION/UTILITIES, RAIL LINE
MAINTAIN AIR QUALITY	ONE HOUR CO CONCENTRATION HOTSPOTS			REFER TO GRAPHICS		INCREASES IN PM2.5 AND NOX IN VICINITY OF CROSSING, APPROACH ROADWAY, AND PLAZA.		

**LEGEND**

- U.S. Plaza & Interchange Footprint
- Interchange & Local Streets
- Canadian Plaza A
- Canadian Plaza B
- Canadian Plaza C
- Crossing X-11
- Existing Noise Level (Decibel dBA)  
(Standard for noise mitigation is 67 dBA for residential areas)
- CO: Carbon Monoxide Concentration (ppm)  
(Air Quality standard for 1 hour CO level is 3.5 ppm, 2035 Peak hour includes 3.4 ppm background)
- BU: # of Active Business Units
- RU: # of Occupied Residential Units



**Detroit River International Crossing Study  
Evaluation of Practical Alternatives  
Supporting Data - Alternative 06**

**DRAFT**  
FOR DISCUSSION PURPOSES ONLY  
11-15-06

Evaluation Factor	Performance Measure Category	Description/Units	Interchange	Plaza	Crossing X11
Traffic Impacts	Streets Closed (permanently)	Number	8	see Public Safety	0
	Streets Crossed	Number	9	see Public Safety	1
Noise	Streets Rerouted	Number	5	see Public Safety	0
	Streets with Interchange	Number	1	see Public Safety	NA
	Railines Crossed	Number	2	see Public Safety	0
	Frontline Exposure	Number of dwelling units exposed	109	95	0
Community Cohesion/ Character	Significant Receptors	Number/Specify	11	2	2
	Positive/Negative/Neutral		Neutral <sup>f</sup>	Neutral <sup>f</sup>	Neutral <sup>f</sup>
Potential Acquisition	Residential Units	Occupied	184	113	0
		Vacant	2	0	0
	Residential Population	Number	451	277	0
	Business Units	Active	15	26	0
		Vacant	14	11	0
	Estimated Employees in affected Census Blocks <sup>2</sup>	Number	60-80	294	0
		Schools - Partial take Parking Lot	1	0	0
		Senior Service Facilities	0	0	0
		City/Government Facilities	1	1	0
	Other Land Uses Affected <sup>3</sup>	Places of Worship	3	1	0
	Medical Facilities	1	1	0	
	State/Federal Government Facilities	1	0	0	
	Community Services/Parks	0	0	0	
	Vacant	0	0	0	
Protect Community / Neighborhood Characteristics	EJ Populations in affected Census Block Groups	EJ Population (non poverty)	6689	617	0
		Population Groups Affected	American Indian, Hispanic	American Indian, Hispanic	None
		% Households in Poverty / Above or Below 9.9% Regional Threshold <sup>4</sup>	31.6%/Above	37.6%/Above	None
		Households in poverty	866	138	0
Public Safety/ Security (Plaza & Crossing)	Title VI - Groups in Census Tracts	Presence of Regionally Prominent Ancestral Groups	None	None	None
	Proximity to industry <sup>6</sup>	Number of heavy industry businesses w/ 1/2 mile	N/A	2	3
		Number of medium industry businesses w/ 1/2 mile	N/A	5	2
	Proximity to Residential / Retail	Number of light industry/office businesses w/ 1000ft/300m	N/A	3	0
		Number of residences w/ 500ft/150m	N/A	94	0
	Proximity to Hazardous Materials	Number of businesses w/ 500ft/150m	N/A	30	1
		Number of EPA/DEQ Hazmat TSD Facilities w/ 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	0.5	0.4
		Number of streets closed (perm.)	N/A	14	0
Number of streets closed (during const.)		N/A	11	1	
	Mainline Railines Rerouted	N/A	2	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 Altisimo, Military Ave. Church, Michigan Bell Bldg., Fort & Green Police Station, Board School Plaza, Historic Fort Wayne & Southwestern High School  
 Crossing: Historic Fort Wayne & DeRay 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: Partial Beard Eary Learning Center, First Latin America, Detroit Friends Meeting Quakers, Old Landmark Church, Partial Detroit Public Safety Building/Homeland Security, Metromatrix Services Plaza, City Waste Disposal Facility, Greater Apostolic Faith Church  
 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 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: (H) Miskensky Power Station, Detroit Thomas Edison Plant (M) Port of Detroit, O.J. Logistics, Arvin Meritor, Bridgewater Interiors, Progressive Distribution Center  
 Crossing: (H) Miskensky Power Station, Port of Detroit, Detroit Edison (M) O.J. Logistics, Bridgewater Interiors



**DRAFT**  
FOR DISCUSSION PURPOSES ONLY  
11-15-06

**Detroit River International Crossing Study  
Evaluation of Practical Alternatives  
Supporting Data - Alternative 06**

Evaluation Factor	Performance Measure Category		Description/Units	Interchange		Plaza		Crossing X11	
	Official Plans	Consistency		Yes	Yes1	Yes	Yes1	Yes	Yes1
<b>Maintain Consistency w/Local Planning</b>	Other Plans	Consistency	YES/NO						
	Environmental Sites Affecting Plan Implementation (single sites may have multiple designations)	Consistency	YES/NO						
		Leaking Undgrd. Stor. Tanks	Number	4		3		1	
		EPA/DEQ Hazmat TSD Facility	Number	1		0		0	
		National Priority List (Superfund)	Number	0		0		0	
	RTK Cerclis (Superfund)	Number	1		2		1		
	Michigan Contaminated Site	Number	0		2		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.

**DRAFT**  
FOR DISCUSSION PURPOSES ONLY  
11-15-06

**Detroit River International Crossing Study  
Evaluation of Practical Alternatives  
Supporting Data - Alternative 06**

Evaluation Factor	Performance Measure Category		Description/Units	Interchange	Plaza	Crossing X11
	Above Ground Historic Resources	Historic Districts				
<b>Protect Cultural Resources</b>		Listed NRHP Sites/Structures <sup>1</sup>	Number	0	0	0
		Listed SHRS Sites/ Structures	Number	0	0	1
		Locally Listed Sites/Structures	Number	0	0	0
		Potentially Eligible Sites/Str. <sup>2</sup>	Number	0	0	0
		Archaeology	Number	2	2	1
		Below Ground Resources <sup>1</sup>	Number	0	0	1
		Parkland	Potential to Find/Record	High/Med/Low	Low	Medium
		All Public Parks <sup>4</sup>	Number/ Acres	0	1/1.1	0
		6(f) Parks	Number/Specify	0	0	0
		Coastal Zone Management	Number of Projects/Specify	0	0	0/0

1. National Registered Historic Places, Historic Fort Wayne
2. Interchange: Olivet Church, 707 Lewerenz; Apartment Bldg, 760 Campbell.  
Plaza: Roberts Brass Mfg. Co. (vacant), 5401-5409 E. Fort; Detroit Savings Bank, 5705 W. Fort  
Crossing: Mistersky Power Station 5467 W. Jefferson
3. 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]); 20WN407, Collot 2 (c. 1796 farmstead location as depicted on Collot Map of Detroit Settlement-conjectural location)  
Crossing: Archaeology, Prev. Recorded Sites - 20WN3 Copper Works Mound (Alternate Location)
4. Public Park: Plaza - City of Detroit Park

**DRAFT**  
FOR DISCUSSION PURPOSES ONLY  
11-15-06

**Detroit River International Crossing Study  
Evaluation of Practical Alternatives  
Supporting Data - Alternative 06**

Evaluation Factor	Performance Measure Category		Description/Units	Interchange	Plaza	Crossing X11
	Surface Water	Groundwater				
Protect The Natural Environment	Floodplain		Number/Acres	0	0/0	0.21
	Surface Run Off		Acres	9	158	7.9
	Primary Streams <sup>1</sup>		Number/Specify	0	0	1 : Detroit R.
	Secondary Streams <sup>2</sup>		Number/Specify	0	0	0
	Other Water-crossings		Number/Specify	0	0	0
	Municipal Wells		Number	0	0	0
	Water In-lakes		Number/Specify	0	0	0
	Wetlands		Acres	0	0	0
	Fens / Bogs		Number/Acres	0	0	0/0
	Endangered Species <sup>3</sup>		Potential Species	0/0	0	0/0
	Designated Wildlife Refuges		Number/Acres	0	0/0	0/0
	Prime/Unique Farmland		Acres	0	0	0
Mineral Resources		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.



# Detroit River International Crossing Practical Alternative #7

PRELIMINARY  
(AS OF 11/15/2006)



Alternative 7 – Preliminary Summary of Impacts

EVALUATION FACTOR	UNITED STATES SUMMARY					CANADIAN SUMMARY		
	PERFORMING MEASURE	INTERCHANGE	PLAZA	CROSSING X-11		X-11(CEG/C-G)/ PLAZA A	X-11/ PLAZA B	X-11/ PLAZA C
PROTECT COMMUNITY NEIGHBORHOOD CHARACTERISTICS	TRAFFIC	STREETS CLOSED	8	17	4	3/4	1/6	5
	NOISE	FRONTYRE EXPOSURE (TOTAL RESIDENTIAL)	109	105	4	180 (receptors > 5dB increase)	100 (receptors > 5dB increase)	100 (receptors > 5dB increase)
POTENTIAL ACQUISITION	OCCUPIED RESIDENTIAL	OCCUPIED RESIDENTIAL	184	189	16	72/67	38	37
		ACTIVE BUSINESS SIGNIFICANT OTHER	18	18	3	9/9	9	13
MAINTAIN CONSISTENCY WITH LOCAL PLANNING	OFFICIAL PLANS ENVIRONMENTAL SITES AFFECTING PLAN IMPLEMENTATION	CONSISTENCY NUMBER	YES	NO	YES	NO (Plaza A)/YES	YES	YES
		NUMBER	6	6	3	11/2	11	12
PROTECT CULTURAL RESOURCES	ABOVEGROUND HISTORIC/NATIONAL REGISTER	NUMBER	0	0	1-FORT WAYNE	0/0	0	0
	POTENTIALLY ELIGIBLE FOR REGISTER STRUCTURES	NUMBER/SITE	3-OUVEY CHURCH, APART BUILDING	1-ST. PAUL A.M.E. CHURCH	1-AGTERSKY	N/A	N/A	N/A
PROTECT THE NATURAL ENVIRONMENT	ARCHAEOLOGIC SITES	NUMBER	0	2	1	0/0	0	0
	PARKLANDS	NUMBER/SITE	1-KAISERMACHER	0	0	1- CIBBWAY PARK (0.7 ha)	1- CIBBWAY PARK (0.2 ha)	1- CIBBWAY PARK (0.7 ha)
IMPROVE REGIONAL MOBILITY (Alternative Stud to 2035 Volume)	2035 AVERAGE DAILY TWO-WAY CROSSING VOLUME (ADT)	2035 ADT	NA	NA	24,200	24,200	24,200	
CONSTRUCTABILITY (SR System Components are Constructible)	KEY ISSUES	REFER TO INDIVIDUAL CROSSING COMPONENT	UTILITY RELOCATION, POTENTIAL CONTAMINATED SOILS	UTILITY RELOCATION, POTENTIAL CONTAMINATED SOILS	CONTAMINATED SOILS	STERLING FUELS, POWER STATION/UTILITIES, RAIL LINE	STERLING FUELS, POWER STATION/UTILITIES, RAIL LINE	STERLING FUELS, POWER STATION/UTILITIES, RAIL LINE
MAINTAIN AIR QUALITY	ONE HOUR CO CONCENTRATION HOTSPOTS	REFER TO GRAPHIC			INCREASES IN PM2.5 AND NOX IN VICINITY OF CROSSING, APPROACH ROADWAY, AND PLAZA.			

24,200 ADT

**LEGEND**

- U.S. Plaza & Interchange Footprint
- Interchange & Local Streets
- Canadian Plaza A
- Canadian Plaza B
- Canadian Plaza C
- Crossing X-11
- Existing Noise Level (Decibel dBA) (Standard for noise mitigation is 67 dBA for residential areas)
- CO: Carbon Monoxide Concentration (ppm) (Air Quality standard for 1 hour CO level is 35 ppm. 2035 Peak hour includes 3.4 ppm background)
- BU: # of Active Business Units
- RU: # of Occupied Residential Units



**Detroit River International Crossing Study  
Evaluation of Practical Alternatives  
Supporting Data - Alternative 7**

**DRAFT**  
FOR DISCUSSION PURPOSES ONLY  
11-15-06

Evaluation Factor	Performance Measure Category	Description/Units	Interchange	Plaza	Crossing X11		
						Streets Closed (permanently)	Streets Crossed
Traffic Impacts	Noise	Number	8	see Public Safety	4		
		Number	9	see Public Safety	4		
Community Cohesion/ Character	Positive/Negative/Neutral	Number	5	see Public Safety	0		
		Number	1	see Public Safety	NA		
		Number	2	see Public Safety	0		
		Number of dwelling units exposed	109	105	4		
		Number/Specify	11	2	2		
		Occupied	Neutral <sup>5</sup>	Neutral <sup>5</sup>	Neutral <sup>5</sup>		
		Residential Units	184	168	16		
		Vacant	2	17	0		
		Residential Population	451	412	39		
		Business Units	18	18	3		
Potential Acquisition	Estimated Employees in affected Census Blocks <sup>2</sup>	Vacant	14	8	2		
		Number	60-80	281	0		
		Schools - Partial take Parking Lot	1	0	0		
		Senior Service Facilities	0	0	0		
		City/Government Facilities	1	2	0		
		Places of Worship	3	3	0		
		Medical Facilities	1	0	0		
		State/Federal Government Facilities	1	1	0		
		Community Services/Parks	0	0	0		
		Vacant	0	0	0		
Protect Community / Neighborhood Characteristics	Other Land Uses Affected <sup>3</sup>	EJ Population (non poverty)	6689	1524	617		
		Population Groups Affected	American Indian, Hispanic	African American, American Indian, Hispanic	American Indian, American Indian, Hispanic		
		% Households in Poverty/ Above or Below 9.9% Regional Threshold <sup>4</sup>	31.6%/Above	39.5%/Above	37.5%/Above		
		Households in poverty	866	295	138		
		Presence of Regionally Prominent Ancestral Groups	None	None	None		
		Title VI Groups in Census Tracts	N/A	3	3		
		Proximity to industry <sup>6</sup>	1/2 mile	N/A	6		
		Proximity to Residential / Retail	1/2 mile	N/A	4		
		Proximity to Hazardous Materials	Number of light industry/office businesses w/ 1000ft/300m	N/A	3		
		Public Safety/ Security (Plaza & Crossing)	Emergency Response	Number of residences w/ 500ft/150m	N/A	4	3
Number of residences w/ 500ft/150m	N/A			59	29		
Number of EPA/DEQ Hazard TSD Facilities w/ 500ft/150m	N/A			11	5		
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 Raillines 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 Allisimo, Military Ave. Church, Michigan Bell Bldg, Fort & Green Police Station, Beard 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

4. Interchange: Partial Beard Early Learning Center, First Latin America, Detroit Friends Meeting Quakers, Old Landmark Church, Partial Detroit Public Safety Building/Homeland Security, Metromatrix Services Plaza, Rabenmacher Recreation Center, Detroit Sewer and Water Department, New Day Church, Saint Paul AWE, Abundant Life Apostolic Overcoming Holy Church, Metrolink/Human Services, Family Independence Agency

5. PPO is poverty threshold for the State of Michigan region is 9.9%. Block groups with percentage of households living in poverty above 9.9% qualify as environmental justice communities.

6. 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.

7. Plaza Alt: (H) Mistersky Power Station, Detroit Thomas Edison Plant, LaFarge (M) Arvin Monitor, 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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**Detroit River International Crossing Study  
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Evaluation Factor	Performance Measure Category		Description/Units	Interchange		Plaza		Crossing X11	
	Official Plans	Consistency		Yes	No	Yes	Yes	Yes	No
<b>Maintain Consistency w/Local Planning</b>	Other Plans	Consistency	YES/NO	Yes <sup>1</sup>	Yes <sup>1</sup>	Yes <sup>1</sup>	Yes <sup>1</sup>	Yes <sup>1</sup>	Yes <sup>1</sup>
	Environmental Sites Affecting Plan Implementation (single sites may have multiple designations)	Consistency	YES/NO	4	1	1	1	1	1
		Leaking Undgrd. Stor. Tanks	Number	1	0	0	0	0	0
		EPA/DEQ Hazmat TSD Facility	Number	0	0	0	0	0	0
		National Priority List (Superfund)	Number	1	2	1	1	1	1
	RTK Cerclis (Superfund)	Number	1	2	1	1	1	1	
	Michigan Contaminated Site	Number	0	3	0	3	0	3	

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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FOR DISCUSSION PURPOSES ONLY  
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**Detroit River International Crossing Study  
Evaluation of Practical Alternatives  
Supporting Data - Alternative 7**

Evaluation Factor	Performance Measure Category		Description/Units	Interchange	Plaza	Crossing X11
	Above Ground Historic Resources	Below Ground Resources <sup>1</sup>				
<b>Protect Cultural Resources</b>	Above Ground Historic Resources	Historic Districts	Number	0	0	0
		Listed NRHP Sites/Structures <sup>1</sup>	Number	0	0	1
		Listed SHRS Sites/ Structures	Number	0	0	0
		Locally Listed Sites/Structures	Number	0	0	0
		Potentially Eligible Sites/Str. <sup>2</sup>	Number	2	1	1
		Prev. Recorded Sites <sup>3</sup>	Number	0	0	1
	Below Ground Resources <sup>1</sup>	Potential to Find/Record	High/Med/Low	Low	Medium	Medium
		All Public Parks <sup>4</sup>	Number/ Acres	0	1/2.4	0
		6(f) Parks	Number/Specify	0	0	0
		Coastal Zone Management	Number of Projects/Specify	0	0	0/0

1. National Registered Historic Places, Historic Fort Wayne
2. Interchange: Olivet Church, 707 Lewerenz; Apartment Bldg, 760 Campbell.  
Plaza: St. Paul A.M.E. Church, 581-585 S. Rademacher  
Crossing: Mistersky Power Station 5467 W. Jefferson
3. 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)
4. Public Park: Plaza - City of Detroit Park

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FOR DISCUSSION PURPOSES ONLY  
11-15-06

**Detroit River International Crossing Study  
Evaluation of Practical Alternatives  
Supporting Data - Alternative 7**

Evaluation Factor	Performance Measure Category		Description/Units	Interchange	Plaza	Crossing X11
Protect The Natural Environment	Surface Water	Floodplain	Number/Acres	0	0/0	0.21
		Surface Run Off	Acres	10	173	8.2
		Primary Streams <sup>1</sup>	Number/Specify	0	0	1: Detroit R.
		Secondary Streams <sup>2</sup>	Number/Specify	0	0	0
		Other Water-crossings	Number/Specify	0	0	0
	Groundwater	Municipal Wells	Number	0	0	0
		Water In-lakes	Number/Specify	0	0	0
	Significant Habitat	Wetlands	Acres	0	0	0
		Fens / Bogs	Number/Acres	0	0	0/0
		Endangered Species <sup>3</sup>	Potential Species	0/0	0	0/0
		Designated Wildlife Refuges	Number/Acres	0	0/0	0/0
		Farmland	Acres	0	0	0
	Prime/Unique Farmland	Farmland	Type/Specify	Salt	Salt	Salt
	Mineral Resources	Salt /Limestone				

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.



# Detroit River International Crossing Practical Alternative #8

PRELIMINARY  
(AS OF 11/15/2006)



Alternative 8 – Preliminary Summary of Impacts

EVALUATION FACTOR	UNITED STATES SUMMARY					CANADIAN SUMMARY			
	PERFORMING MEASURE	INTERCHANGE	PLAZA	CROSSING X-11		X-11(CEG/C-G) PLAZA A	X-11 PLAZA B	X-11 PLAZA C	
PROTECT COMMUNITY NEIGHBORHOOD CHARACTERISTICS (NOTE: NOISE WILL BE MITIGATED BY SOUND WALLS)	TRAFFIC NOISE	STREETS CLOSED	7	14	0	3/4	16	5	
	POTENTIAL ACQUISITION	FRONTLINE EXPOSURE (TOTAL RESIDENTIAL)	109	95	0	180 (receptors > 5dB increase)	180 (receptors > 5dB increase)	180 (receptors > 5dB increase)	
		OCCUPIED RESIDENTIAL	188	113	0	72/67	38	37	
		ACTIVE BUSINESSES	14	26	0	9/9	9	13	
	SIGNIFICANT OTHER	5-FIRST LATIN BAPTIST, DETROIT FRIENDS MEETING QUAKERS, OLD LANDMARK CHURCH, MILITARY AVE CHURCH, BEARD SCHOOL (PARTIAL)	1-GREATER APOSTOLIC FAITH CHURCH	0	1 SOCIAL FEATURE (INSTITUTIONAL) ERIE WILDLIFE RESCUE	1 SOCIAL FEATURE (INSTITUTIONAL) ERIE WILDLIFE RESCUE	1 SOCIAL FEATURE (INSTITUTIONAL) ERIE WILDLIFE RESCUE		
MAINTAIN CONSISTENCY WITH LOCAL PLANNING	OFFICIAL PLANS ENVIRONMENTAL SITES AFFECTING PLAN IMPLEMENTATION	CONSISTENCY NUMBER	Yes 6	Yes 7	Yes 2	NO (Plan N)/YES 11/2	YES 11	YES 12	
	ABOVEGROUND HISTORIC/NATIONAL REGISTER	NUMBER	0	0	1-FORT WAYNE	0/0	0	0	
PROTECT CULTURAL RESOURCES	POTENTIALLY ELIGIBLE FOR REGISTER STRUCTURES	NUMBER/SITE	3-OLIVE CHURCH, FISHER BODY, APART BLDG	2-ROBERTS BRASS MFG, DETROIT SAVINGS BANK	1-MASTERKEY	N/A	N/A	N/A	
	ARCHAEOLOGIC SITES	NUMBER	0	2	1	4/6	6	6	
PROTECT THE NATURAL ENVIRONMENT	SIGNIFICANT HABITAT	NUMBER/SITE	0	1-DETROIT CITY PARK	0	1 - OJBWAY PARK (0.7 ha)	1 - OJBWAY PARK (0.7 ha)	1 - OJBWAY PARK (0.7 ha)	
		NUMBER/SITE	0	0	0	2.9 ha TALLGRASS PRAIRIE, 0.2 ha FISH, BUTLER'S GARTERSNAKE	2.9 ha TALLGRASS PRAIRIE, 0.2 ha FISH, BUTLER'S GARTERSNAKE, ENCROACH BLACK OAK WOODS	0.9 ha TALLGRASS PRAIRIE, 0.7 ha FISH, BUTLER'S GARTERSNAKE	
IMPROVE REGIONAL MOBILITY (Alternative 8 and to 2035 Volume)	2035 AVERAGE DAILY TWO-WAY CROSSING VOLUME (ADT)	2035 ADT	NA	NA	32,000	32,000	32,000		
CONSTRUCTABILITY (All System Components are Constructible)	KEY ISSUES	REFER TO INDIVIDUAL CROSSING COMPONENT	UTILITY RELOCATION, POTENTIAL CONTAMINATED SOILS	SIGNIFICANT SEWER RELOCATION, POTENTIAL CONTAMINATED SOILS, RAILWAY RELOCATION	CONTAMINATED SOILS	STERLING FUELS, POWER STATION/LIFELINES, RAIL LINE	STERLING FUELS, POWER STATION/LIFELINES, RAIL LINE	STERLING FUELS, POWER STATION/LIFELINES, RAIL LINE	
MAINTAIN AIR QUALITY	ONE HOUR CO CONCENTRATION HOTSPOTS	REFER TO GRAPHIC					INCREASES IN PM2.5 AND NOX IN VICINITY OF CROSSING, APPROACH ROADWAY, AND PLAZA.		

X-11  
BU: 0  
RU: 0

32,000 ADT

**LEGEND**

- U.S. Plaza & Interchange Footprint
- Interchange & Local Streets
- Canadian Plaza A
- Canadian Plaza B
- Canadian Plaza C
- Crossing X-11
- Existing Noise Level (Decibel dBA) (Standard for noise mitigation is 67 dBA for residential areas)
- CO: Carbon Monoxide Concentration (ppm) (Air Quality standard for 1 hour CO level is 35 ppm, 2035 Peak hour includes 3.4 ppm background)
- BU: # of Active Business Units
- RU: # of Occupied Residential Units



**Detroit River International Crossing Study  
Evaluation of Practical Alternatives  
Supporting Data - Alternative 08**

**DRAFT**  
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Evaluation Factor	Performance Measure Category		Description/Units	Interchange	Plaza	Crossing X11
	Streets Closed (permanently)	Number				
Traffic Impacts	Streets Crossed	Number		7	see Public Safety	0
	Streets Rerouted	Number		9	see Public Safety	1
	Streets with Interchange	Number		3	see Public Safety	0
	Railines Crossed	Number		1	see Public Safety	NA
	Frontline Exposure	Number		2	see Public Safety	0
Noise	Number of dwelling units exposed	Number/Specify		109	95	0
	Number/Specify	Number/Specify		10	2	2
Community Consistency/Character	Significant Receptors - Exposures					
	Positive/Negative/Neutral			Neutral <sup>8</sup>	Neutral <sup>8</sup>	Neutral <sup>8</sup>
Potential Acquisition	Residential Units	Occupied		180	113	0
		Vacant		1	0	0
	Residential Population	Number		441	277	0
	Business Units	Active		14	26	0
		Vacant		14	11	0
	Estimated Employees in affected Census Blocks <sup>2</sup>	Number		50-70	294	0
		Schools - Partial take Parking Lot		1	0	0
		Senior Service Facilities		0	0	0
		City/Government Facilities		1	1	0
		Places of Worship		4	1	0
		Medical Facilities		1	1	0
		State/Federal Government Facilities		1	0	0
		Community Services/Parks		0	0	0
		Vacant		0	0	0
		EJ Population (non poverty) Population Groups Affected		6899	617	0
Protect Community / Neighborhood Characteristics	EJ Populations in affected Census Block Groups		American Indian, Hispanic	American Indian, Hispanic	None	None
	% Households in Poverty / Above or Below 9.5% Regional Threshold <sup>4</sup>			31.6%/Above	37.5%/Above	None
	Households in poverty			866	138	0
Environmental Justice / Title VI	Title VI - Groups in Census Tracts	Presence of Regionally Prominent Ancestral Groups		None	None	None
		Number of heavy industry businesses w/ 1/2 mile		N/A	2	3
Public Safety/ Security (Plaza & Crossing)	Proximity to Industry <sup>7</sup>	Number of medium industry businesses w/ 1/2 mile		N/A	5	2
		Number of light industry/office businesses w/ 1000ft/300m		N/A	3	0
	Proximity to Residential / Retail	Number of residences w/ 500ft/150m		N/A	84	0
		Number of businesses w/ 500ft/150m		N/A	30	1
	Proximity to Hazardous Materials	Number of EPA/DEQ Hazmat TSD Facilities w/ 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	0.5	0.4
		Number of streets closed (perm.)		N/A	14	0
		Number of streets closed (during const.)		N/A	11	1
		Mainline Railines Rerouted		N/A	2	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, Military Ave. Church, Michigan Bell Bldg, Fort & Green Police Station, Board Early Learning School  
Plaza: Historic Fort Wayne & Southwestern High School  
Crossing: Historic Fort Wayne & DeWitt 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: Partial Beard Early Learning Center, First Latin America, Old Landmark Church, Detroit Friends Meeting Quakers, Military Ave Church, Partial Detroit Public Safety Building/Homeland Security, Metromatrix Human Services  
Plaza: City Waste Disposal Facility, Greater Apostolic Faith Church  
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: (H) Mistersky Power Station, Detroit Thomas Edison Plant (M) Port of Detroit, O.J. Logistics, Arvin Meritor, Bridgewater Interiors, Progressive Distribution Center  
Crossing: (H) Mistersky Power Station, Port of Detroit, Detroit Edison (M) O.J. Logistics, Bridgewater Interiors

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FOR DISCUSSION PURPOSES ONLY  
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**Detroit River International Crossing Study  
Evaluation of Practical Alternatives  
Supporting Data - Alternative 08**

Evaluation Factor	Performance Measure Category		Description/Units	Interchange	Plaza	Crossing X11
	Official Plans	Consistency				
<b>Maintain Consistency w/Local Planning</b>	Other Plans	Consistency	YES/NO	Yes	Yes	Yes
	Environmental Sites Affecting Plan Implementation (single sites may have multiple designations)	Consistency	YES/NO	Yes1	Yes 1	Yes1
	Leaking Undgrd. Stor. Tanks		Number	4	3	1
	EPA/DEQ Hazmat TSD Facility		Number	1	0	0
	National Priority List (Superfund)		Number	0	0	0
RTK Cerclis (Superfund)		Number	1	2	1	
Michigan Contaminated Site		Number	0	2	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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FOR DISCUSSION PURPOSES ONLY

11-15-06

**Detroit River International Crossing Study  
Evaluation of Practical Alternatives  
Supporting Data - Alternative 08**

Evaluation Factor	Performance Measure Category		Description/Units	Interchange	Plaza	Crossing X11
	Above Ground Historic Resources	Historic Districts				
Protect Cultural Resources		Listed NRHP Sites/Structures <sup>1</sup>	Number	0	0	0
		Listed SHRS Sites/Structures	Number	0	0	1
		Locally Listed Sites/Structures	Number	0	0	0
		Potentially Eligible Sites/Str. <sup>2</sup>	Number	0	0	0
		Prev. Recorded Sites <sup>3</sup>	Number	3	2	1
		Potential to Find/Record	High/Med/Low	0	2	1
		Parkland	All Public Parks <sup>4</sup>	Number/ Acres	Low	Medium
		6(f) Parks	Number/Specify	0	1/1,1	0
		Coastal Zone Management	Number of Projects/Specify	0	0	0/0

1. National Registered Historic Places, Historic Fort Wayne

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

Plaza: Roberts Brass Mfg. Co. (vacant), 5401-5409 E. Fort; Detroit Savings Bank, 5705 W. Fort

Crossing: Mistersky Power Station 5467 W. Jefferson

3. 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]); 20WN407, Collot 2 (c. 1796 farmstead location as depicted on Collot Map of Detroit Settlement-conjectural location)

Crossing: Archaeology, Prev. Recorded Sites.- 20WN3 Copper Works Mound (Alternate Location)

4. Public Park: Plaza - City of Detroit Park



**Detroit River International Crossing Study  
Evaluation of Practical Alternatives  
Supporting Data - Alternative 08**

**DRAFT**  
FOR DISCUSSION PURPOSES ONLY  
11-15-06

Evaluation Factor	Performance Measure Category	Description/Units		Interchange	Plaza	Crossing X11
		Number/Acres				
Protect The Natural Environment	Surface Water	Floodplain	Number/Acres	0	0/0	0.21
		Surface Run Off	Acres	9	158	7.9
		Primary Streams <sup>1</sup>	Number/Specify	0		1: Detroit R.
		Secondary Streams <sup>2</sup>	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
		Fens / Bogs	Number/Acres	0	0	0/0
		Endangered Species <sup>3</sup>	Potential Species	0/0	0	0/0
		Designated Wildlife Refuges	Number/Acres	0	0/0	0/0
		Farmland	Acres	0	0	0
	Prime/Unique Farmland					
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.
- 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.



# Detroit River International Crossing Practical Alternative #9

PRELIMINARY  
(AS OF 11/15/2006)



Alternative 9 – Preliminary Summary of Impacts

EVALUATION FACTOR	UNITED STATES SUMMARY					CANADIAN SUMMARY			
	PERFORMING MEASURE	INTERCHANGE	PLAZA	CROSSING X-11		X-11/PLAZA A	X-11/PLAZA B	X-11/PLAZA C	
PROTECT COMMUNITY NEIGHBORHOOD CHARACTERISTICS	TRAFFIC NOISE	STREETS CLOSED	7	17	4	3/4	16	5	
	POTENTIAL ACQUISITION	FRONTLINE EXPOSURE (TOTAL RESIDENTIAL)	109	105	4	180 (Occupants > 5dB increase)	180 (Occupants > 5dB increase)	180 (Occupants > 5dB increase)	
MAINTAIN CONSISTENCY WITH LOCAL PLANNING	OFFICIAL PLANS	CONSISTENCY NUMBER	Yes	No	Yes	NO (Plaza A)/YES	YES	YES	
	ENVIRONMENTAL SITES AFFECTING PLAN IMPLEMENTATION	NUMBER	6	6	3	11/2	11	12	
PROTECT CULTURAL RESOURCES	ABOVEGROUND HISTORIC/NATIONAL REGISTER	NUMBER/SITE	0	0	1-FORT WAYNE	0/0	0	0	
	POTENTIALLY ELIGIBLE FOR REGISTER STRUCTURES	NUMBER/SITE	3-OLYMP CHURCH, YVARR BODD, APART BLDG	1-ST. PAUL A.M.E. CHURCH	1-MASTERSKEY	N/A	N/A	N/A	
PROTECT THE NATURAL ENVIRONMENT	ARCHAEOLOGIC SITES/PARKLANDS	NUMBER/SITE	0	2	1	N/A	0	0	
	SIGNIFICANT HABITAT	NUMBER/SITE	0	1-RATEMAACHER	0	1-CORBIWAY PARK (0.7 ha)	1-CORBIWAY PARK (0.7 ha)	1-CORBIWAY PARK (0.7 ha)	
IMPROVE REGIONAL MOBILITY (Alternative Sized to 2035 Values)	2035 AVERAGE DAILY TWO-WAY CROSSING VOLUME (ADT)	2035 ADT	NA	NA	24,300	24,300	24,300		
CONSTRUCTABILITY (AE System Components are Constructible)	KEY ISSUES	REFER TO INDIVIDUAL CROSSING COMPONENT	UTILITY RELOCATION, POTENTIAL CONTAMINATED SOILS	UTILITY RELOCATION, POTENTIAL CONTAMINATED SOILS	CONTAMINATED SOILS	STERLING FUELS, POWER STATION/UTILITIES, RAIL LINE	STERLING FUELS, POWER STATION/UTILITIES, RAIL LINE	STERLING FUELS, POWER STATION/UTILITIES, RAIL LINE	
MAINTAIN AIR QUALITY	CO CONCENTRATION HOTSPOTS	REFER TO GRAPHIC					INCREASES IN PM2.5 AND NO2 IN VICINITY OF CROSSING, APPROACH ROADWAY, AND PLAZA		

**LEGEND**

- U.S. Plaza & Interchange Footprint
- Interchange & Local Streets
- Canadian Plaza A
- Canadian Plaza B
- Canadian Plaza C
- Crossing X-11
- Existing Noise Level (Decibel dBA) (Standard for noise mitigation is 67 dBA for residential areas)
- CO: Carbon Monoxide Concentration (ppm) (Air Quality standard for 1 hour CO level is 35 ppm, 2035 Peak hour includes 3.4 ppm background)
- BU: # of Active Business Units
- RU: # of Occupied Residential Units



**Detroit River International Crossing Study  
Evaluation of Practical Alternatives  
Supporting Data - Alternative 9**

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FOR DISCUSSION PURPOSES ONLY  
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Evaluation Factor	Performance Measure Category		Description/Units	Interchange	Plaza	Crossing X11	
	Streets Closed (permanently)	Number					
Traffic Impacts	Streets Closed (permanently)	Number	Occupied	7	see Public Safety	4	
	Streets Rerouted	Number	Vacant	9	see Public Safety	4	
	Streets with Interchange	Number	Residential Population	3	see Public Safety	0	
	Railines Crossed	Number	Business Units	1	see Public Safety	NA	
Noise	Frontline Exposure	Number of dwelling units exposed	Estimated Employees in affected Census Blocks <sup>2</sup>	109	see Public Safety	4	
	Significant Exposures	Number /Specify	Other Land Uses Affected <sup>3</sup>	11	105	2	
Community Cohesion/ Character	Positive/Negative/Neutral		Residential Units	Neutral <sup>6</sup>	Neutral <sup>6</sup>	Neutral <sup>6</sup>	
			Residential Units	180	168	16	
			Vacant	1	17	0	
			Residential Population	441	412	39	
			Business Units	17	18	3	
			Estimated Employees in affected Census Blocks <sup>2</sup>	14	8	2	
			Other Land Uses Affected <sup>3</sup>	50-70	281	0	
			Potential Acquisition	Schools - Partial Lake Parking Lot	1	0	0
				Senior Service Facilities	0	0	0
				City/Government Facilities	1	2	0
Protect Community / Neighborhood Characteristics			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	
			Population (non poverty)	6889	1524	617	
			EJ Populations in affected Census Block Groups	American Indian, Hispanic	African American, American Indian, Hispanic	American Indian, Hispanic	
			Title VI Groups in Census Tracts	31.6%/Above	39.6%/Above	37.5%/Above	
			Proximity to Industry <sup>4</sup>	866	266	138	
			Proximity to Residential / Retail	None	None	None	
Public Safety/ Security (Plaza & Crossing)	Proximity to Hazardous Materials		Number of heavy industry businesses w/ 1/2 mile	N/A	3	3	
	Emergency Response		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	
			Number of residences w/ 500ft/150m	N/A	69	29	
		Number of businesses w/ 500ft/150m	N/A	11	5		
		Number of EPA/DEQ Hazmat TSD Facilities w/ 500ft/150m	N/A	0	0		
		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, Military Ave. Church, Michigan Bell Bldg, Fort & Green Police Station, Beard Early Learning School  
Plaza: Historic Fort Wayne & Southwestern High School  
Crossing: St. Ignace Church, St. Ignace Parish, St. Ignace Parish Church, St. Ignace Parish School, St. Ignace Parish Day Center, St. Ignace Parish Launch

2. Employee estimates provided by Tazrad Computer Applications and are based on employee 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: Partial Beard Early Learning Center, First Latin America, Old Landmark Church, Detroit Friends Meeting Quakers, Military Ave Church, Parkland Detroit Public Safety Building/Homeland Security, MetroMatrix Human Services  
Plaza: Rackmarcher 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  
P.O. 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 X11 (H) Mieszkowski Power Station, Detroit, Thomas Edison Park, L'Arrage (M) Town/Mentor, Produce Terminal Progressive Distribution Center, Yellow Trucking, Bridgewater Interiors Crossing: (H) Mieszkowski Power Plant, Fort of Detroit, Detroit Edison (M) OJ Logistics, Bridgewater Interiors, Pilsbush Steel, Packing Materials Company



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Evaluation Factor	Performance Measure Category		Description/Units	Interchange		Plaza		Crossing X11	
	Official Plans	Consistency		Yes	No	Yes	No	Yes	No
<b>Maintain Consistency w/Local Planning</b>	Other Plans	Consistency	YES/NO	Yes <sup>1</sup>	Yes <sup>1</sup>	Yes <sup>1</sup>	Yes <sup>1</sup>	Yes <sup>1</sup>	Yes <sup>1</sup>
	Environmental Sites Affecting Plan Implementation (single sites may have multiple designations)	Consistency	YES/NO	4	1	1	1	1	1
		Leaking Undgrd. Stor. Tanks	Number	1	0	0	0	0	0
		EPA/DEQ Hazmat TSD Facility	Number	0	0	0	0	0	0
	National Priority List (Superfund)	Number	1	2	1	2	1	1	
	RTK Cerclis (Superfund)	Number	1	2	1	2	1	1	
	Michigan Contaminated Site	Number	0	3	0	3	1	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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**Detroit River International Crossing Study  
Evaluation of Practical Alternatives  
Supporting Data - Alternative 9**

Evaluation Factor	Performance Measure Category		Description/Units	Interchange	Plaza	Crossing X11
	Historic Districts	Number				
<b>Protect Cultural Resources</b>	Above Ground Historic Resources	Listed NRHP Sites/Structures <sup>1</sup>	Number	0	0	0
		Listed SHRS Sites/ Structures	Number	0	0	1
		Locally Listed Sites/Structures	Number	0	0	0
	Below Ground Resources <sup>1</sup>	Potentially Eligible Sites/Str. <sup>2</sup>	Number	3	1	1
		Archaeology	Number	0	2	1
		Potential to Find/Record	High/Med/Low	Low	Medium	Medium
Parkland	All Public Parks <sup>4</sup>	Number/ Acres	0	1/2.4	0	
	6(f) Parks	Number/Specify	0	0	0	
	Coastal Zone Management	Number of Projects/Specify	0	0	0/0	

1. National Registered Historic Places, Historic Fort Wayne
2. Interchange: Olivet Church, 707 Lewerenz; Turnsteeds (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
3. 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)
4. Public Park: Plaza - Rademacher Park

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FOR DISCUSSION PURPOSES ONLY  
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**Detroit River International Crossing Study  
Evaluation of Practical Alternatives  
Supporting Data - Alternative 9**

Evaluation Factor	Performance Measure Category	Description/Units	Crossing X11		
			Interchange	Plaza	Crossing X11
Protect The Natural Environment	Surface Water	Floodplain	0	0/0	0.21
		Surface Run Off	10	173	8.2
		Primary Streams <sup>1</sup>	0	0	1: Detroit R.
		Secondary Streams <sup>2</sup>	0	0	0
		Other Water-crossings	0	0	0
	Groundwater	Municipal Wells	Number	0	0
		Water In-takes	Number/Specify	0	0
	Significant Habitat	Wetlands	Acres	0	0
		Fens / Bogs	Number/Specify	0	0
		Endangered Species <sup>3</sup>	Potential Species	0/0	0
		Designated Wildlife Refuges	Number/Specify	0	0/0
		Farmland	Acres	0	0
	Prime/Unique Farmland	Farmland	Type/Specify	Salt	Salt
Mineral Resources	Salt /Limestone	Type/Specify	Salt	Salt	

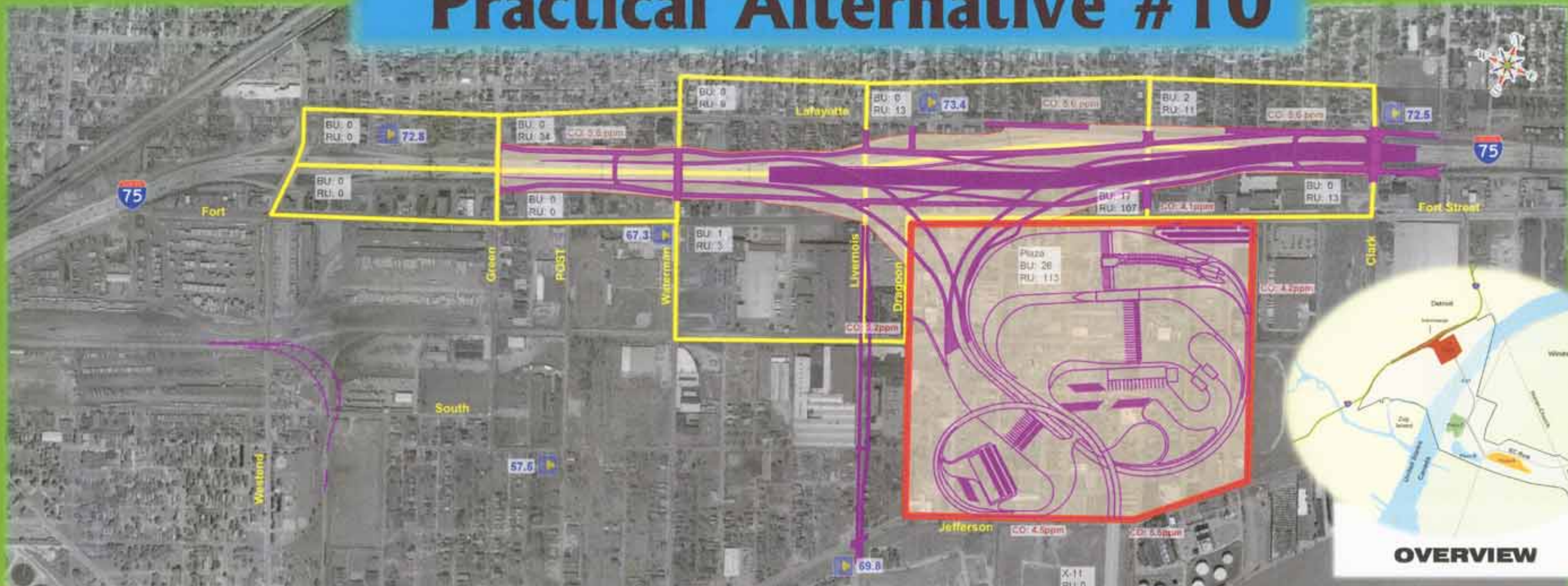
Notes:

- 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.



# Detroit River International Crossing Practical Alternative #10

PRELIMINARY  
(AS OF 11/15/2006)



Alternative 10 – Preliminary Summary of Impacts

EVALUATION FACTOR	UNITED STATES SUMMARY				
	PERFORMING MEASURE	INTERCHANGE	PLAZA	CROSSING X-11	
PROTECT COMMUNITY NEIGHBORHOOD CHARACTERISTICS	TRAFFIC NOISE	STREETS CLOSED	14	0	
	POTENTIAL ACQUISITION	FRONTAGE EXPOSURE (TOTAL RESIDENTIAL)	101	95	0
		OCCUPIED RESIDENTIAL	190	113	0
		ACTIVE BUSINESSES	20	24	0
	SIGNIFICANT OTHER	4-FIRST LATH BAPTIST, DETROIT FRIENDS MEETING HOUSES, OLD LANDMARK CHURCH, MILITARY AVE CHURCH	1-GREATER APOSTOLIC FAITH CHURCH	0	
MAINTAIN CONSISTENCY WITH LOCAL PLANNING	OFFICIAL PLANS	CONSISTENCY NUMBER	5/6	YES	
	ENVIRONMENTAL SITES AFFECTING PLAN IMPLEMENTATION	NUMBER	4	3	
PROTECT CULTURAL RESOURCES	ABOVEGROUND HISTORIC/ON NATIONAL REGISTER	NUMBER	0	1-FORT WAYNE	
	POTENTIALLY ELIGIBLE FOR REGISTER STRUCTURES	NUMBER/SITE	3-OLIVET CHURCH, FISHERBODY APART BLDG	2-ROBERTS BRASS MFG, DETROIT SAVINGS BANK	
	ARCHAEOLOGIC SITES	NUMBER	0	2	
PROTECT THE NATURAL ENVIRONMENT	PARKLANDS	NUMBER/SITE	0	1-DETROIT CITY PARK	
	SIGNIFICANT HABITAT	NUMBER/SITE	0	0	
IMPROVE REGIONAL MOBILITY (Alternative Sized to 2035 Volume)	2035 AVERAGE DAILY TWO-WAY CROSSING VOLUME (ADT)	2035 ADT	NA	32,000	
CONSTRUCTABILITY (All System Components are Constructible)	KEY ISSUES	REFER TO INDIVIDUAL CROSSING COMPONENT	UTILITY RELOCATION, POTENTIAL CONTAMINATED SOILS	SIGNIFICANT SEWER RELOCATION, POTENTIAL CONTAMINATED SOILS, RAILWAY RELOCATION	
MAINTAIN AIR QUALITY	ONE HOUR CO CONCENTRATION HOTSPOTS	REFER TO GRAPHIC			

CANADIAN SUMMARY		
X-11(CEG/C-G)/ PLAZA A	X-11/ PLAZA B	X-11/ PLAZA C
3/4 180 (receptors) > 5dB increase	16 180 (receptors) > 5dB increase	5 180 (receptors) > 5dB increase
72/6/7 9/9 1-SOCIAL FEATURE (INSTITUTIONAL)-ERE WILDLIFE RESCUE	38 9 1-SOCIAL FEATURE (INSTITUTIONAL)-ERE WILDLIFE RESCUE	37 15 1-SOCIAL FEATURE (INSTITUTIONAL)-ERE WILDLIFE RESCUE
NO (Issue N/A)/YES	YES	YES
11/2	11	12
8/8 N/A	9 N/A	9 N/A
6/5 1- OJBWAY PARK (0.7 ha)	0 1- OJBWAY PARK (0.7 ha)	0 1- OJBWAY PARK (0.7 ha)
2.9 ha TALLGRASS PRAIRIE, 0.2 ha FISH, BUTLER'S GARTERSNAKE	3.9 ha TALLGRASS PRAIRIE, 0.2 ha FISH, BUTLER'S GARTERSNAKE, ENCROACH BLACK OAK WOODS	0.9 ha TALLGRASS PRAIRIE, 0.7 ha FISH, BUTLER'S GARTERSNAKE
32,000	32,000	32,000
STERLING FUELS, POWER STATION/UTILITIES, B&N LHW	STERLING FUELS, POWER STATION/UTILITIES, B&N LHW	STERLING FUELS, POWER STATION/UTILITIES, B&N LHW

INCREASES IN PM2.5 AND NO2 IN VICINITY OF CROSSING, APPROACH ROADWAY, AND PLAZA

**LEGEND**

- U.S. Plaza & Interchange Footprint
- Interchange & Local Streets
- Canadian Plaza A
- Canadian Plaza B
- Canadian Plaza C
- Crossing X-11
- Existing Noise Level (Decibel dBA)  
(Standard for noise mitigation is 67 dBA for residential areas)
- CO: Carbon Monoxide Concentration (ppm)  
(Air Quality standard for 1 hour CO level is 35 ppm, 2035 Peak hour includes 3.4 ppm background)
- BU: # of Active Business Units
- RU: # of Occupied Residential Units



**Detroit River International Crossing Study  
Evaluation of Practical Alternatives  
Supporting Data - Alternative 10**

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Evaluation Factor	Performance Measure Category	Description/Units	Interchange	Plaza	Crossing X11	
Traffic Impacts	Streets Closed (permanently)	Number	9	see Public Safety	0	
	Streets Crossed	Number	13	see Public Safety	1	
	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	
	Frontline Exposure	Number of dwelling units exposed	101	95	0	
	Community Cohesion/ Character	Significant Receptors <sup>1</sup>	Number/Specify	10	2	2
		Positive/Negative/Neutral		Neutral <sup>5</sup>	Neutral <sup>6</sup>	Neutral <sup>6</sup>
	Potential Acquisition	Residential Units	Occupied	190	113	0
			Vacant	1	0	0
Residential Population		Number	466	277	0	
Business Units		Active	20	28	0	
		Vacant	19	11	0	
Estimated Employees in affected Census blocks <sup>3</sup>		Number	90-130	294	0	
Other Land Uses Affected <sup>4</sup>		Schools - Partial Lake Parking Lot	0	0	0	0
		Senior Service Facilities	0	0	0	0
		City/Government Facilities	1	1	0	0
		Places of Worship	4	1	0	0
	Medical Facilities	1	1	0	0	
	State/Federal Government Facilities	1	0	0	0	
	Community Services/Parks	0	0	0	0	
	Vacant	0	0	0	0	
	EJ Population (non poverty)	5619	617	American Indian, Hispanic	American Indian, Hispanic	None
	EJ Populations in affected Census Block Groups	% Households in Poverty / Above or Below 9.9% Regional Threshold <sup>5</sup>		32.4%/Above	37.5%/Above	None
Environmental Justice / Title VI	Title VI Groups in Census Tracts	Presence of Regionally Prominent Ancestral Groups	717	138	0	
	Public Safety/ Security (Plaza & Crossing)	Proximity to Industry <sup>6</sup>	Number of heavy industry businesses w/ 1/2 mile	N/A	2	3
			Number of medium industry businesses w/ 1/2 mile	N/A	5	2
			Number of light industry/office businesses w/ 1000ft/300m	N/A	3	0
			Number of residences w/ 500ft/150m	N/A	94	0
			Number of businesses w/ 500ft/150m	N/A	30	1
			Number of EPA/DEC Hazard TSD Facilities w/ 500ft/150m	N/A	0	0
			Distance to nearest fire station (mi)	N/A	0.7	0.4
			Distance to nearest police station (mi)	N/A	0.5	0.4
			Number of streets closed (perm.)	N/A	14	0
		Number of streets closed (during const.)	N/A	11	1	
	Maritime Railines Rerouted		N/A	2	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 Avrego, Altsimo, Michigan Bell Bldg, Fort & Green Police Station, Beard Early Learning School  
 Crossing: Historic Fort Wayne & Delaware 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: City Waste Disposal Facility, Greater Apostolic Faith Church  
 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: (H) Mistersky Power Station, Detroit Thomas Edison Plant (M) Port of Detroit, O J Logistics, Arvin Meritor, Bridgewater Interiors, Progressive Distribution Center  
 Crossing: (H) Mistersky Power Station, Port of Detroit, Detroit Edison (M) OJ Logistics, Bridgewater Interiors

**Detroit River International Crossing Study  
Evaluation of Practical Alternatives  
Supporting Data - Alternative 10**

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Evaluation Factor	Performance Measure Category		Description/Units	Interchange	Plaza	Crossing X11
	Official Plans	Consistency				
Maintain Consistency w/Local Planning	Other Plans	Consistency	YES/NO	Yes	Yes	Yes
	Environmental Sites Affecting Plan Implementation (single sites may have multiple designations)	Consistency	YES/NO	Yes1	Yes1	Yes1
		Leaking Undgrd. Stor. Tanks	Number	3	3	1
		EPA/DEQ Hazmat TSD Facility	Number	1	0	0
		National Priority List (Superfund)	Number	0	0	0
RTK Cerclis (Superfund)	Number	0	2	2	1	
	Michigan Contaminated Site	Number	0	0	2	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.



**Detroit River International Crossing Study  
Evaluation of Practical Alternatives  
Supporting Data - Alternative 10**

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FOR DISCUSSION PURPOSES ONLY  
11-15-06

Evaluation Factor	Performance Measure Category		Description/Units	Interchange	Plaza	Crossing X11
	Above Ground Historic Resources	Below Ground Resources				
<b>Protect Cultural Resources</b>	Historic Districts		Number	0	0	0
	Listed NRHP Sites/Structures <sup>1</sup>		Number	0	0	1
	Listed SHRS Sites/ Structures		Number	0	0	0
	Locally Listed Sites/Structures		Number	0	0	0
	Potentially Eligible Sites/Str. <sup>2</sup>		Number	3	2	1
	Prev. Recorded Sites <sup>3</sup>		Number	0	2	1
	Potential to Find/Record		High/Med/Low	Low	Medium	Medium
	All Public Parks <sup>4</sup>		Number/ Acres	0	1/1.1	0
	6(f) Parks		Number/Specify	0	0	0
	Coastal Zone Management		Number of Projects/Specify	0	0	0/0

1. National Registered Historic Places, Historic Fort Wayne  
 2. Interchange: Olivet Church, 707 Lewerenz; Turnsteads (Fisher Body), 6307 W. Fort; Apartment Bldg, 760 Campbell.  
 Plaza: Roberts Brass Mfg. Co. (vacant), 5401-5409 E. Fort; Detroit Savings Bank, 5705 W. Fort  
 Crossing: Mistersky Power Station 5467 W. Jefferson  
 3. 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]); 20WN407, Collot 2 (c. 1796 farmstead location as depicted on Collot Map of Detroit Settlement-conjectural location)  
 Crossing: Archaeology, Prev. Recorded Sites.- 20WN3 Copper Works Mound (Alternate Location)  
 4. Public Park: Plaza - City of Detroit Park

**Detroit River International Crossing Study**  
**Evaluation of Practical Alternatives**  
**Supporting Data - Alternative 10**

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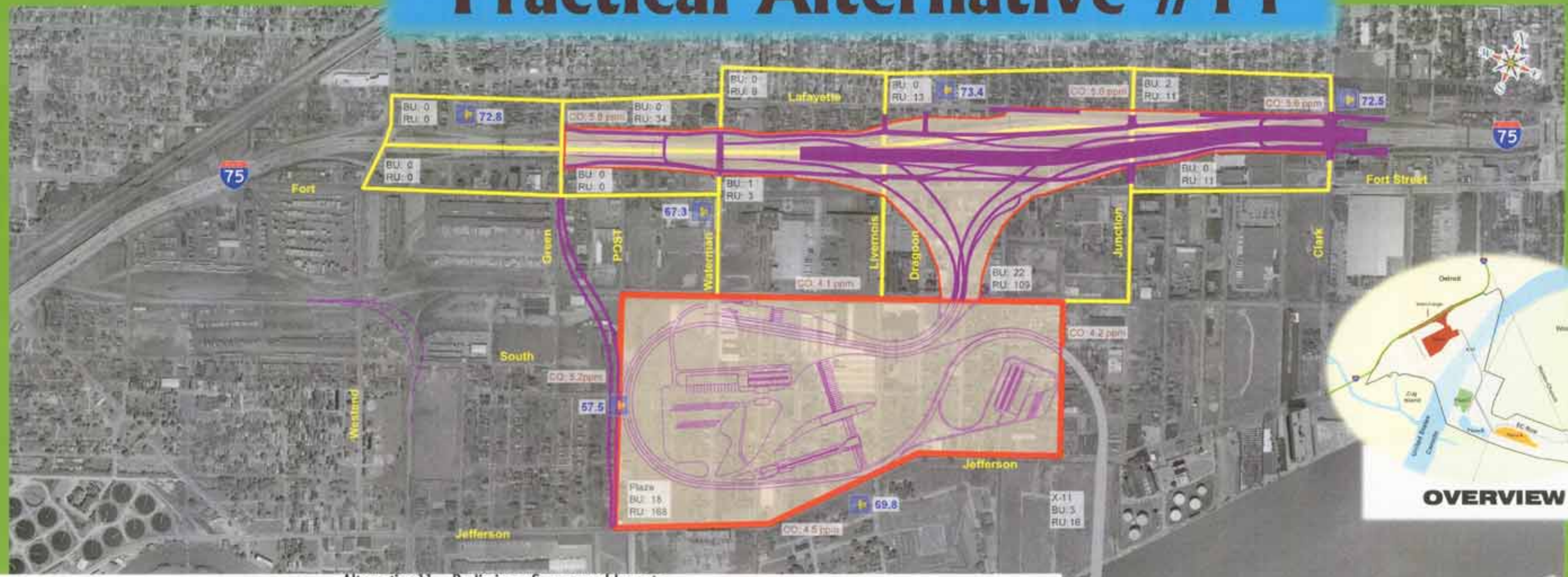
Evaluation Factor	Performance Measure Category	Description/Units		Interchange	Plaza	Crossing X11	
		Number/Acres					
Protect The Natural Environment	Surface Water	Floodplain	Number/Acres	0	0/0	0.21	
		Surface Run Off	Acres	8	158	7.9	
		Primary Streams <sup>1</sup>	Number/Specify	0	0	1: Detroit R.	
		Secondary Streams <sup>2</sup>	Number/Specify	0	0	0	
		Other Water-crossings	Number/Specify	0	0	0	
	Groundwater	Municipal Wells	Number	0	0	0	0
		Water In-lakes	Number/Specify	0	0	0	0
	Significant Habitat	Wetlands	Acres	0	0	0	0
		Fens / Bogs	Number/Acres	0	0	0/0	0/0
		Endangered Species <sup>3</sup>	Potential Species	0/0	0	0	0/0
		Designated Wildlife Refuges	Number/Acres	0	0/0	0/0	0/0
		Farmland	Acres	0	0	0	0
	Prime/Unique Farmland		Type/Specify				
Mineral Resources	Salt/Limestone		Salt	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.



# Detroit River International Crossing Practical Alternative #11

PRELIMINARY  
(AS OF 11/15/2006)



Alternative 11 – Preliminary Summary of Impacts

EVALUATION FACTOR	PERFORMING MEASURE	UNITED STATES SUMMARY			
		INTERCHANGE	PLAZA	CROSSING X-11	
PROTECT COMMUNITY NEIGHBORHOOD CHARACTERISTICS	TRAFFIC NOISE	STREETS CLOSED FRONTLINE EXPOSURE (TOTAL RESIDENTIAL)	9 101	17 105	4 4
	POTENTIAL ACQUISITION	OCCUPIED RESIDENTIAL ACTIVE BUSINESSES SIGNIFICANT OTHER	190 25 4-FIRST LATIN BAPTIST, DETROIT FRIENDS MEETING QUAKERS, OLD LANDMARK CHURCH, MILITARY AVE CHURCH	168 18 5-NEW DAY CHURCH, SAINT PAUL AVE, ABUNDANT LIFE APOSTOLIC OVERCOMING HOLY CHURCH OF GOD	16 3 0
MAINTAIN CONSISTENCY WITH LOCAL PLANNING	OFFICIAL PLANS ENVIRONMENTAL SITES AFFECTING PLAN IMPLEMENTATION	CONSISTENCY NUMBER	Yes 4	No 6	Yes 5
PROTECT CULTURAL RESOURCES	ABOVEGROUND HISTORIC/NATIONAL REGISTER	NUMBER	0	0	1-FORT WAYNE
	POTENTIALLY ELIGIBLE FOR REGISTER STRUCTURES	NUMBER/SITE	3-OLIVE CHURCH, FISHER BODY, APART BLDGS	1-ST PAUL A.M.E. CHURCH	1-MITCHELLEY
PROTECT THE NATURAL ENVIRONMENT	ARCHAEOLOGIC SITES/PARKLANDS	NUMBER/NUMBER/SITE	0 0	2 1-RACEMACHER	1 0
	SIGNIFICANT HABITAT	NUMBER/SITE	0	0	0
IMPROVE REGIONAL MOBILITY (Alternative listed to 2035 Volume)	2035 AVERAGE DAILY TWO-WAY CROSSING VOLUME (ADT)	2035 ADT	NA	NA	24,300
CONSTRUCTABILITY (All System Components and Constructible)	KEY ISSUES	REFER TO BIDDING DOCUMENT CROSSING COMPONENT	UTILITY RELOCATION, POTENTIAL CONTAMINATED SOILS	UTILITY RELOCATION, POTENTIAL CONTAMINATED SOILS	CONTAMINATED SOILS
MAINTAIN AIR QUALITY	ONE HOUR CO CONCENTRATION HOTSPOTS	REFER TO GRAPHIC			

EVALUATION FACTOR	CANADIAN SUMMARY		
	X-11(CEG/C-6)/ PLAZA A	X-11/ PLAZA B	X-11/ PLAZA C
PROTECT COMMUNITY NEIGHBORHOOD CHARACTERISTICS	TRAFFIC NOISE 180 (receptors > 5dB increase) 72/67 9/8 1-SOCIAL FEATURE (INSTITUTIONAL)-ERIE WILDLIFE RESCUE	16 180 (receptors > 5dB increase) 38 9 1-SOCIAL FEATURE (INSTITUTIONAL)-ERIE WILDLIFE RESCUE	5 180 (receptors > 5dB increase) 27 13 1-SOCIAL FEATURE (INSTITUTIONAL)-ERIE WILDLIFE RESCUE
	NO (Plaza A)/YES 11/2	YES 11	YES 12
PROTECT CULTURAL RESOURCES	0/0 N/A	0 N/A	0 N/A
	1-1-ORRWAY PARK (0.7 ha) 2.9 ha TALLGRASS PRAIRIE, 0.2 ha FISH, BUTLER'S GARTERSNAKE	1-1-ORRWAY PARK (0.7 ha) 2.9 ha TALLGRASS PRAIRIE, 0.2 ha FISH, BUTLER'S GARTERSNAKE, ENCROACH BLACK OAK WOODS	1-1-ORRWAY PARK (0.7 ha) 0.9 ha TALLGRASS PRAIRIE, 0.7 ha FISH, BUTLER'S GARTERSNAKE
IMPROVE REGIONAL MOBILITY	24,300	24,300	24,300
CONSTRUCTABILITY	STERLING FUELS, POWER STATION/UTILITIES, RAIL LINE	STERLING FUELS, POWER STATION/UTILITIES, RAIL LINE	STERLING FUELS, POWER STATION/UTILITIES, RAIL LINE
MAINTAIN AIR QUALITY	INCREASES IN PM2.5 AND NO2 IN VICINITY OF CROSSING, APPROACH ROADWAY, AND PLAZA		

24,300 ADT

**LEGEND**

- U.S. Plaza & Interchange Footprint
- Interchange & Local Streets
- Canadian Plaza A
- Canadian Plaza B
- Canadian Plaza C
- Crossing X-11
- Existing Noise Level (Decibel dBA)  
(Standard for noise mitigation is 67 dBA for residential areas)
- CO: Carbon Monoxide Concentration (ppm)  
(Air Quality standard for 1 hour CO level is 35 ppm, 2035 Peak hour includes 3.4 ppm background)
- BU: # of Active Business Units
- RU: # of Occupied Residential Units



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

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FOR DISCUSSION PURPOSES ONLY  
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Evaluation Factor	Performance Measure Category		Description/Units	Interchange	Plaza	Crossing X11
	Streets Closed (permanently)	Streets Crossed				
Traffic Impacts	Streets Closed (permanently)	Streets Crossed	Number	9	see Public Safety	4
	Streets Reopened	Streets Reopened	Number	13	see Public Safety	4
Noise	Streets with Interchange	Streets with Interchange	Number	4	see Public Safety	0
	Railines Crossed	Railines Crossed	Number	1	see Public Safety	NA
Community Cohesion/ Character	Frontline Exposure	Frontline Exposure	Number of dwelling units exposed	101	see Public Safety	0
	Significant Exposures - Exposures	Significant Exposures - Exposures	Number/Specify	10	105	4
Potential Acquisition	Positive/Negative/Neutral	Occupied	Number	Neutral <sup>6</sup>	Neutral <sup>6</sup>	Neutral <sup>6</sup>
		Vacant	Number	180	168	16
	Residential Units	Residential Population	Number	1	17	0
		Business Units	Active	466	412	39
	Estimated Employees in affected Census Blocks <sup>7</sup>	Business Units	Vacant	25	18	3
		Estimated Employees in affected Census Blocks <sup>7</sup>	Number	19	8	2
	Other Land Uses Affected <sup>8</sup>	Schools - Partial Lake Parking Lot	Number	90-130	281	0
		Senior Service Facilities	Number	0	0	0
	EJ Populations in affected Census Block Groups	City/Government Facilities	Number	0	0	0
		Places of Worship	Number	1	2	0
Environmental Justice / Title VI	Medical Facilities	Number	4	3	0	
	State/Federal Government Facilities	Number	1	0	0	
Title VI - Groups in Census Tracts	Community Services/Parks	Number	1	1	0	
	Vacant	Number	0	0	0	
Public Safety/ Security (Plaza & Crossing)	EJ Population (non poverty)	Number	5619	1524	617	
	Population Groups Affected	Number	American Indian, Hispanic	African American, American Indian, Hispanic	American Indian, Hispanic	
Emergency Response	% Households in Poverty/ Above or Below 9.9% Regional Threshold <sup>4</sup>	Number	32.4%/Above	39.5%/Above	37.5%/Above	
	Households in poverty	Number	717	296	138	
Proximity to Industry <sup>6</sup>	Presence of Regionally Prominent Ancestral Groups	Number	None	None	None	
	Number of heavy industry businesses w/ 1/2 mile	Number	N/A	3	3	
Proximity to Residential / Retail	Number of medium industry businesses w/ 1/2 mile	Number	N/A	5	4	
	Number of light industry/office businesses w/ 1000/300m	Number	N/A	4	3	
Proximity to Hazardous Materials	Number of residences w/ 500ft/150m	Number	N/A	59	29	
	Number of residences w/ 500ft/150m	Number	N/A	11	5	
Emergency Response	Number of EPA/DEQ Hazardous TSD Facilities w/ 900ft/150m	Number	N/A	0	0	
	Distance to nearest fire station (mi)	Number	N/A	0.7	0.4	
Emergency Response	Number of streets closed (perm.)	Number	N/A	0.9	0.4	
	Number of streets closed (during const.)	Number	N/A	17	2	
Emergency Response	Mainline Railines Rerouted	Number	N/A	16	2	
		Number	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 Avugo Altismo, 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: Reismacher Recreation Center, Detroit Sewer and Water Department, New Day Church, Saint Paul AVE, Abundant Life Apostolic Overcoming Holy Church, MetroMatrix Human Services  
 Crossing: Fort Wayne & Delray Park Public Boat Launch  
 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 Mentor, 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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FOR DISCUSSION PURPOSES ONLY  
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Supporting Data - Alternative 11**

Evaluation Factor	Performance Measure Category		Description/Units	Interchange	Plaza	Crossing X11
	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)	Consistency	YES/NO	Yes <sup>1</sup>	Yes <sup>1</sup>	Yes <sup>1</sup>
		Leaking Undgrd. Stor. Tanks	Number	3	1	1
		EPA/DEQ Hazmat TSD Facility	Number	1	0	0
		National Priority List (Superfund)	Number	0	0	0
	RTK Cerclis (Superfund)	Number	0	2	1	
	Michigan Contaminated Site	Number	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.

**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
	Above Ground Historic Resources	Below Ground Resources <sup>1</sup>				
<b>Protect Cultural Resources</b>	Historic Districts		Number	0	0	0
	Listed NRHP Sites/Structures <sup>1</sup>		Number	0	0	1
	Listed SHRS Sites/ Structures		Number	0	0	0
	Locally Listed Sites/Structures		Number	0	0	0
	Potentially Eligible Sites/Str. <sup>2</sup>		Number	3	1	1
	Prev. Recorded Sites <sup>3</sup>		Number	0	2	1
	Potential to Find/Record		High/Med/Low	Low	Medium	Medium
	All Public Parks <sup>4</sup>		Number/ Acres	0	1/2.4	0
	6(f) Parks		Number/Specify	0	0	0
	Coastal Zone Management		Number of Projects/Specify	0	0	0/0

1. National Registered Historic Places, Historic Fort Wayne
2. Interchange: Olivet Church, 707 Lewerenz; Turnsteds (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
3. 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)
4. Public Park: Plaza - Rademacher Park



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FOR DISCUSSION PURPOSES ONLY  
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**Detroit River International Crossing Study  
Evaluation of Practical Alternatives  
Supporting Data - Alternative 11**

Evaluation Factor	Performance Measure Category		Description/Units	Interchange	Plaza	Crossing X11
	Surface Water	Groundwater				
Protect The Natural Environment	Floodplain		Number/Acres	0	0/0	0.21
	Surface Run Off		Acres	10	173	8.2
	Primary Streams <sup>1</sup>		Number/Specify	0	0	1: Detroit R.
	Secondary Streams <sup>2</sup>		Number/Specify	0	0	0
	Other Water-crossings		Number/Specify	0	0	0
	Municipal Wells		Number	0	0	0
	Water In-takes		Number/Specify	0	0	0
	Wetlands		Acres	0	0	0
	Fens / Bogs		Number/Acres	0	0	0/0
	Endangered Species <sup>3</sup>		Potential Species	0/0	0	0/0
	Designated Wildlife Refuges		Number/Acres	0	0/0	0/0
	Prime/Unique Farmland		Acres	0	0	0
	Mineral Resources		Salt /Limestone	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.



# Detroit River International Crossing Practical Alternative #12

PRELIMINARY  
(AS OF 11/15/2006)



Alternative 12 – Preliminary Summary of Impacts

EVALUATION FACTOR	PERFORMING MEASURE	UNITED STATES SUMMARY			
		INTERCHANGE	PLAZA	CROSSING X-11	
PROTECT COMMUNITY NEIGHBORHOOD CHARACTERISTICS	TRAFFIC NOISE	STREETS CLOSED	9	14	0
	POTENTIAL ACQUISITION	FRONTLINE EXPOSURE (TOTAL RESIDENTIAL)	107	95	0
		OCCUPIED RESIDENTIAL	173	113	0
MAINTAIN CONSISTENCY WITH LOCAL PLANNING	OFFICIAL PLANS ENVIRONMENTAL SITES AFFECTING PLAN IMPLEMENTATION	CONSENSUENCY NUMBER	YES	YES	YES
		NUMBER	3	2	3
PROTECT CULTURAL RESOURCES	ABOVEGROUND HISTORIC/NATIONAL REGISTER	NUMBER	0	0	1-FORT WAYNE
	POTENTIALLY ELIGIBLE FOR REGISTER STRUCTURES	NUMBER/SITE	3-ALL SAINTS CHURCH, FISHER BODY, APART BLDGS	2-ROBERTS BRASS MFG, DETROIT SAVINGS BANK	1-MILWAUKEE
PROTECT THE NATURAL ENVIRONMENT	ARCHAEOLOGIC SITES/PARKLANDS	NUMBER/SITE	0	2	1-DETROIT CITY PARK
	SIGNIFICANT HABITAT	NUMBER/SITE	0	0	0
IMPROVE REGIONAL MOBILITY (Alternative 12 to 2035 Volume)	2035 AVERAGE DAILY TWO-WAY CROSSING VOLUME (ADT)	2035 ADT	NA	NA	26,200
CONSTRUCTABILITY (AR System Components are Constructible)	KEY ISSUES	REFER TO INDIVIDUAL CROSSING COMPONENT	UTILITY RELOCATION, POTENTIAL CONTAMINATED SOILS	SIGNIFICANT SEWER RELOCATION, POTENTIAL CONTAMINATED SOILS, RAILWAY RELOCATION	CONTAMINATED SOILS
MAINTAIN AIR QUALITY	ONE HOUR CO CONCENTRATION HOTSPOTS	REFER TO GRAPHIC			INCREASES IN PM2.5 AND NOX IN VICINITY OF CROSSING, APPROACH ROADWAY, AND PLAZA

EVALUATION FACTOR	CANADIAN SUMMARY			
	X-11(CEG/C-G)/ PLAZA A	X-11/ PLAZA B	X-11/ PLAZA C	
PROTECT COMMUNITY NEIGHBORHOOD CHARACTERISTICS	TRAFFIC NOISE	16	8	
	POTENTIAL ACQUISITION	120 (paragraphs > 5dB increase)	38	27
MAINTAIN CONSISTENCY WITH LOCAL PLANNING	CONSENSUENCY NUMBER	YES	YES	
	NUMBER	11/2	12	
PROTECT CULTURAL RESOURCES	ABOVEGROUND HISTORIC/NATIONAL REGISTER	NUMBER	9	9
	POTENTIALLY ELIGIBLE FOR REGISTER STRUCTURES	N/A	N/A	N/A
PROTECT THE NATURAL ENVIRONMENT	ARCHAEOLOGIC SITES/PARKLANDS	NUMBER/SITE	0	0
	SIGNIFICANT HABITAT	NUMBER/SITE	0	0
IMPROVE REGIONAL MOBILITY (Alternative 12 to 2035 Volume)	2035 AVERAGE DAILY TWO-WAY CROSSING VOLUME (ADT)	26,200	26,200	26,200
CONSTRUCTABILITY (AR System Components are Constructible)	KEY ISSUES	STERLING FUELS, POWER STATION/UTILITIES, RAIL LINE	STERLING FUELS, POWER STATION/UTILITIES, RAIL LINE	STERLING FUELS, POWER STATION/UTILITIES, RAIL LINE
MAINTAIN AIR QUALITY	ONE HOUR CO CONCENTRATION HOTSPOTS	INCREASES IN PM2.5 AND NOX IN VICINITY OF CROSSING, APPROACH ROADWAY, AND PLAZA		

**LEGEND**

- U.S. Plaza & Interchange Footprint
- Interchange & Local Streets
- Canadian Plaza A
- Canadian Plaza B
- Canadian Plaza C
- Crossing X-11
- Existing Noise Level (Decibel dBA)  
(Standard for noise mitigation is 67 dBA for residential areas)
- CO: Carbon Monoxide Concentration (ppm)  
(Air Quality standard for 1 hour CO level is 35 ppm, 2035 Peak hour includes 3.4 ppm background)
- BU: # of Active Business Units
- RU: # of Occupied Residential Units



**Detroit River International Crossing Study  
Evaluation of Practical Alternatives  
Supporting Data - Alternative 12**

**DRAFT**  
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Evaluation Factor	Performance Measure Category	Description/Units	Interchange	Plaza	Crossing X11	
Traffic Impacts	Streets Closed (permanently)	Number	9	see Public Safety	0	
	Streets Crossed	Number	12	see Public Safety	0	
	Streets Rerouted	Number	3	see Public Safety	0	
	Streets with Interchange	Number	2	see Public Safety	NA	
	Railines Crossed	Number	5	see Public Safety	0	
Noise	Frontline Exposure	Number of dwelling units exposed	107	95	0	
	Significant Receptors, Exposures	Number/Specify	7	2	2	
Community Cohesion/ Character	Positive/Negative/Neutral		Neutral <sup>5</sup>	Neutral <sup>5</sup>	Neutral <sup>5</sup>	
		Residential Units	171	113	0	
		Vacant	0	0	0	
		Residential Population	419	277	0	
		Business Units	26	26	0	
		Active	16	11	0	
		Vacant	10	15	0	
		Estimated Employees in affected Census Blocks <sup>2</sup>	Number	90-130	294	0
		Schools - Partial Lake Parking Lot	1	0	0	
		Senior Service Facilities	0	0	0	
Potential Acquisition	Other Land Uses Affected <sup>3</sup>	City/Government Facilities	0	1	0	
		Places of Worship	4	1	0	
		Medical Facilities	0	1	0	
		State/Federal Government Facilities	0	0	0	
		Community Services/Parks	0	0	0	
		Vacant	0	0	0	
		EJ Population (non poverty)	6757	617	0	
		Population Groups Affected	American Indian, Hispanic	American Indian, Hispanic	None	
		% Households in Poverty / Above or Below 9.9% Regional Threshold <sup>4</sup>	33.7%/Above	37.5%/Above	None	
		Households in poverty	953	138	0	
Environmental Justice / Title VI	Title VI - Groups in Census Tracts	Presence of Regionally Prominent Ancestral Groups	None	None	None	
		Proximity to industry <sup>1</sup>	N/A	2	3	
		Proximity to Residential / Retail	N/A	5	2	
		Proximity to Hazardous Materials	N/A	3	0	
		Emergency Response	N/A	94	0	
			N/A	30	1	
			N/A	0	0	
			N/A	0.7	0.4	
			N/A	0.5	0.4	
			N/A	14	0	
		N/A	11	1		
		N/A	2	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: Faith Tabernacle Church, New Beginning, El Abrigo Alsimo, Michigan Bell Bldg, Fort & Green Police Station  
 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: Beard Early Learning Center, Military Avenue Church, First Latin American, All Saints Church, Detroit Friends Meeting Quakers, Partial Detroit Public Safety Building  
 Plaza: City Waste Disposal Facility, Greater Apostolic Faith Church  
 Crossing: Historic Fort Wayne & Southwestern High School  
 4. The poverty threshold for the SEWCOG 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: (H) Miskery Power Station, Detroit Thomas Edison Plant (M) Port of Detroit, O.J. Logistics, Arvin Meritor, Bridgewater Interiors, Progressive Distribution  
 Crossing: (H) Miskery Power Station, Port of Detroit, Detroit Edison (M) OJ Logistics, Bridgewater Interiors



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Evaluation Factor	Performance Measure Category		Description/Units	Interchange	Plaza	Crossing X11
	Official Plans	Consistency				
<b>Maintain Consistency w/Local Planning</b>	Other Plans	Consistency	YES/NO	Yes	Yes	Yes
	Environmental Sites Affecting Plan Implementation (single sites may have multiple designations)	Consistency	YES/NO	Yes1	Yes 1	Yes1
		Leaking Undgrd. Stor. Tanks	Number	7	3	1
		EPA/DEQ Hazmat TSD Facility	Number	1	0	0
		National Priority List (Superfund)	Number	0	0	0
RTK Cerclis (Superfund)	Number	3	2	1		
	Michigan Contaminated Site	Number	1	2	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.

**Detroit River International Crossing Study  
Evaluation of Practical Alternatives  
Supporting Data - Alternative 12**

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FOR DISCUSSION PURPOSES ONLY  
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Evaluation Factor	Performance Measure Category		Description/Units	Interchange	Plaza	Crossing X11
	Above Ground Historic Resources	Below Ground Resources <sup>1</sup>				
<b>Protect Cultural Resources</b>	Historic Districts		Number	0	0	0
	Listed NRHP Sites/Structures <sup>1</sup>		Number	0	0	1
	Listed SHRS Sites/Structures		Number	0	0	0
	Locally Listed Sites/Structures		Number	0	0	0
	Potentially Eligible Sites/Str. <sup>2</sup>		Number	3	2	1
	Archaeology		Number	0	2	1
	Potential to Find/Record		High/Med/Low	Low	Medium	Medium
Parkland	All Public Parks <sup>4</sup>		Number/ Acres	0	1/1.1	0
	6(f) Parks		Number/Specify	0	0	0
	Coastal Zone Management		Number of Projects/Specify	0	0	0/0

- National Registered Historic Places, Historic Fort Wayne
- Interchange: All Saints Church, 7800 W. Fort; Turnsteads (Fisher Body), 6307 W. Fort; Apartment Bldg, 760 Campbell.  
Plaza: Roberts Brass Mfg. Co. (vacant), 5401-5409 E. Fort; Detroit Savings Bank, 5705 W. Fort  
Crossing: Mistersky Power Station 5467 W. Jefferson
- 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]); 20WN407, Collet 2 (c. 1796 farmstead location as depicted on Collet Map of Detroit Settlement-conjectural location)  
Crossing: Archaeology, Prev. Recorded Sites.- 20WN3 Copper Works Mound (Alternate Location)
- Public Park: Plaza - City of Detroit Park

**Detroit River International Crossing Study  
Evaluation of Practical Alternatives  
Supporting Data - Alternative 12**

**DRAFT**  
FOR DISCUSSION PURPOSES ONLY  
11-15-06

Evaluation Factor	Performance Measure Category	Description/Units		Interchange	Plaza	Crossing X11
		Number/Acres	Number/Specify			
Protect The Natural Environment	Surface Water	Floodplain	Number/Acres	0	0/0	0.21
		Surface Run Off	Acres	14	158	7.9
		Primary Streams <sup>1</sup>	Number/Specify	0	0	1: Detroit R.
		Secondary Streams <sup>2</sup>	Number/Specify	0	0	0
	Groundwater	Other Water-crossings	Number/Specify	0	0	0
		Municipal Wells	Number	0	0	0
		Water In-takes	Number/Specify	0	0	0
	Significant Habitat	Wetlands	Acres	0	0	0
		Fens / Bogs	Number/Acres	0	0	0/0
		Endangered Species <sup>3</sup>	Potential Species	0/0	0	0/0
		Designated Wildlife Refuges	Number/Acres	0	0/0	0/0
		Farmland	Acres	0	0	0
	Prime/Unique Farmland		Type/Specify	Salt	Salt	Salt
Mineral Resources						

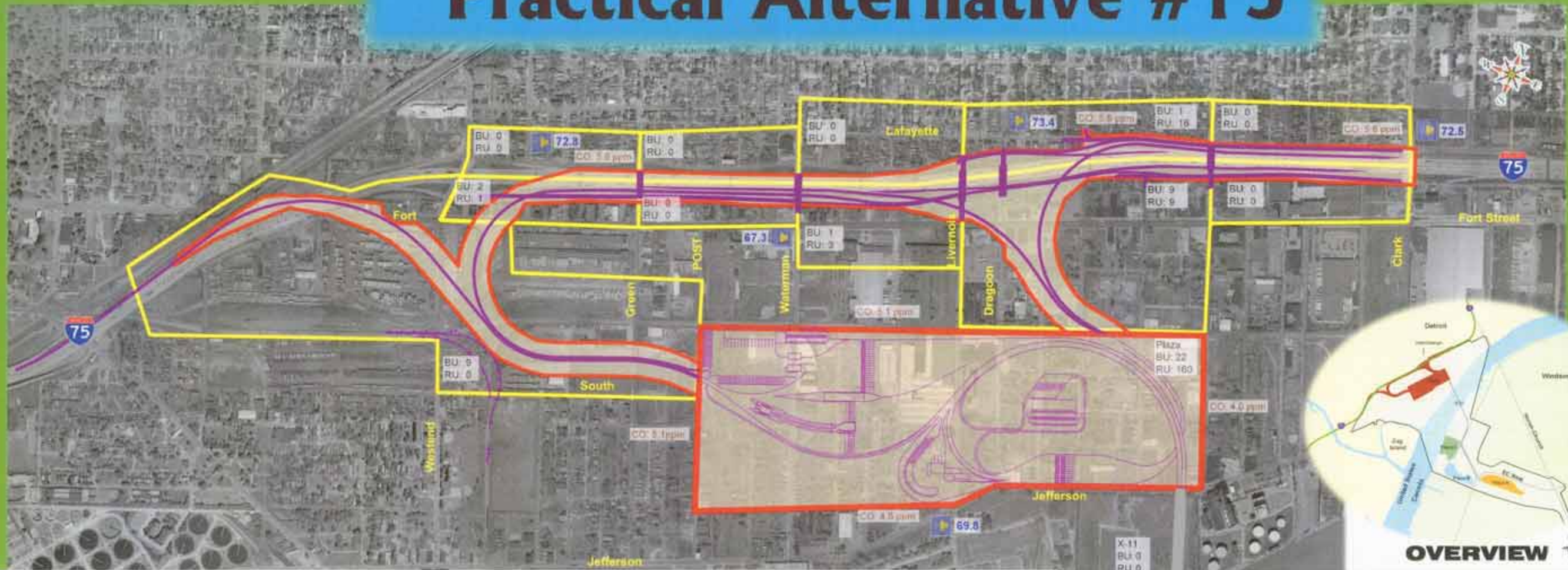
Notes:

- Primary Streams are classified as water courses with an average width greater than 50ft/15m
  - Secondary streams are classified as water courses with an average width less than 50ft/15m.
  - 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.



# Detroit River International Crossing Practical Alternative #13

PRELIMINARY  
(AS OF 11/15/2006)



Alternative 13 – Preliminary Summary of Impacts

EVALUATION FACTOR	PERFORMING MEASURE	UNITED STATES SUMMARY			CANADIAN SUMMARY		
		INTERCHANGE	PLAZA	CROSSING X-11	X-11/(CEG/C-)/ PLAZA A	X-11/ PLAZA B	X-11/ PLAZA C
PROTECT COMMUNITY NEIGHBORHOOD CHARACTERISTICS	TRAFFIC NOISE	STREETS CLOSED: 1 FRONTLINE EXPOSURE (TOTAL RESIDENTIAL): 29	17 72	0 0	3/4 180 (perceptors > 5dB increase)	16 180 (perceptors > 5dB increase)	5 180 (perceptors > 5dB increase)
	POTENTIAL ACQUISITION	OCCUPIED RESIDENTIAL: 29 ACTIVE BUSINESSES: 22 SIGNIFICANT OTHER: 4	160 22 3-NEW DAY CHURCH, SAINT PAUL A.M.E., ABUNDANT LIFE APOSTOLIC OVERCOMING HOLY CHURCH OF GOD	0 0 0	72/67 9/9 1-SOCIAL FEATURE (INSTITUTIONAL)-ERIE WILDLIFE RESCUE	38 9 1-SOCIAL FEATURE (INSTITUTIONAL)-ERIE WILDLIFE RESCUE	37 13 1-SOCIAL FEATURE (INSTITUTIONAL)-ERIE WILDLIFE RESCUE
MAINTAIN CONSISTENCY WITH LOCAL PLANNING	OFFICIAL PLANS, ENVIRONMENTAL SITES AFFECTING PLAN IMPLEMENTATION	CONSISTENCY NUMBER: 9	Yes 2	Yes 3	NO (Phase A)/YES 11/2	YES 11	YES 12
PROTECT CULTURAL RESOURCES	ABOVEGROUND HISTORIC/NATIONAL REGISTER	NUMBER: 0	0	1-FORT WAYNE	0/0	0	0
	POTENTIALLY ELIGIBLE FOR REGISTER STRUCTURES	NUMBER/SITE: 5	1-ALL SAINTS CHURCH, PRODUCE TERMINAL, MICHIGAN BELL BLDG, FORT POLICE STATION, OUVET CHURCH	1-MISTERSKEY	N/A	N/A	N/A
PROTECT THE NATURAL ENVIRONMENT	ARCHAEOLOGIC SITES/PARKLANDS	NUMBER: 0	2	1	6/0	6	6
	SIGNIFICANT HABITAT	NUMBER/SITE: 0	1-BAZEMACHEF	0	1- OJBWAY PARK @ 7.7 ha 2.9 ha TALLGRASS PRAIRIE, 0.2 ha HIGH BUTLER'S CARTERSHART	1- OJBWAY PARK @ 7.7 ha 2.0 ha TALLGRASS PRAIRIE, 0.2 ha HIGH BUTLER'S CARTERSHART, ENCROACH BLACK OAK WOODS	1- OJBWAY PARK @ 7.7 ha 0.9 ha TALLGRASS PRAIRIE, 0.7 ha HIGH BUTLER'S CARTERSHART
IMPROVE REGIONAL MOBILITY (Alternative Road to 2035 Valued)	2035 AVERAGE DAILY TWO-WAY CROSSING VOLUME (ADT)	2035 ADT	NA	NA	27,900	27,900	27,900
CONSTRUCTABILITY (All System Components are Constructible)	KEY ISSUES	REFER TO INDIVIDUAL CROSSING COMPONENT	UTILITY RELOCATION, POTENTIAL CONTAMINATED SOILS	UTILITY RELOCATION, POTENTIAL CONTAMINATED SOILS	STERLING FUELL, POWER STATION/UTILITIES, RAIL LINE	STERLING FUELL, POWER STATION/UTILITIES, RAIL LINE	STERLING FUELL, POWER STATION/UTILITIES, RAIL LINE
MAINTAIN AIR QUALITY	ONE HOUR CO CONCENTRATION HOTSPOTS	REFER TO GRAPHIC			INCREASES IN PM2.5 AND NO2 IN VICINITY OF CROSSING, APPROACH ROADWAY, AND PLAZA.		

### LEGEND

- U.S. Plaza & Interchange Footprint
- Interchange & Local Streets
- Canadian Plaza A
- Canadian Plaza B
- Canadian Plaza C
- Crossing X-11
- Existing Noise Level (Decibel dBA)  
(Standard for noise mitigation is 67 dBA for residential areas)
- CO: Carbon Monoxide Concentration (ppm)  
(Air Quality standard for 1 hour CO level is 35 ppm, 2035 Peak hour includes 3.4 ppm background)
- BU: # of Active Business Units
- RU: # of Occupied Residential Units





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Evaluation of Practical Alternatives  
Supporting Data - Alternative 13**

Evaluation Factor	Performance Measure Category		Description/Units	Interchange	Plaza	Crossing X11	
	Official Plans	Consistency					
<b>Maintain Consistency w/Local Planning</b>	Other Plans	Consistency	YES/NO	Yes	No	Yes	
	Environmental Sites Affecting Plan Implementation (single sites may have multiple designations)	Consistency	YES/NO	Yes <sup>1</sup>	Yes <sup>1</sup>	Yes <sup>1</sup>	
		Leaking Undgrd. Stor. Tanks	Number	5	1	2	1
		EPA/DEQ Hazmat TSD Facility	Number	1	0	0	0
		National Priority List (Superfund)	Number	0	0	0	0
RTK Cerclis (Superfund)	Number	2	2	2	1		
	Michigan Contaminated Site	Number	1	1	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.



**Detroit River International Crossing Study  
Evaluation of Practical Alternatives  
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Evaluation Factor	Performance Measure Category		Description/Units	Interchange	Plaza	Crossing X11
	Above Ground Historic Resources	Below Ground Resources <sup>1</sup>				
<b>Protect Cultural Resources</b>	Historic Districts		Number	0	0	0
	Listed NRHP Sites/Structures <sup>1</sup>		Number	0	0	1
	Listed SHRS Sites/ Structures		Number	0	0	0
	Locally Listed Sites/Structures		Number	0	0	0
	Potentially Eligible Sites/Str. <sup>2</sup>		Number	5	1	1
	Prev. Recorded Sites <sup>3</sup>		Number	0	2	1
	Potential to Find/Record		High/Med/Low	Low	Medium	Medium
	All Public Parks <sup>4</sup>		Number/ Acres	0	1/2.4	0
	6(f) Parks		Number/Specify	0	0	0
	Coastal Zone Management		Number of Projects/Specify	0	0	0/0

- National Registered Historic Places, Historic Fort Wayne
- Interchange: All Saints Church, 7800 W. Fort; Produce Terminal, 7201 W. Fort; Michigan Bell (Vineyard Exc) Building, 7400 W. Fort; Fort & Green Police Station, 7104 W. Fort; Olivet Church, 707 Lewerenz.  
Plaza: St. Paul A.M.E. Church, 581-585 S. Rademacher  
Crossing: Mistersky Power Station 5467 W. Jefferson
- 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)
- Public Park: Plaza - Rademacher Park

**Detroit River International Crossing Study  
Evaluation of Practical Alternatives  
Supporting Data - Alternative 13**

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Evaluation Factor	Performance Measure Category	Description/Units		Interchange	Plaza	Crossing X11
		Number/Acres	Number/Specify			
Protect The Natural Environment	Surface Water	Floodplain	Number/Acres	0	0/0	0.21
		Surface Run Off	Acres	11	175	8.2
		Primary Streams <sup>1</sup>	Number/Specify	0	0	1: Detroit R.
		Secondary Streams <sup>2</sup>	Number/Specify	0	0	0
	Groundwater	Other Water-crossings	Number/Specify	0	0	0
		Municipal Wells	Number	0	0	0
		Water In-lakes	Number/Specify	0	0	0
	Significant Habitat	Wetlands	Acres	0	0	0
		Fens / Bogs	Number/Acres	0	0	0/0
		Endangered Species <sup>3</sup>	Potential Species	0/0	0	0/0
		Designated Wildlife Refuges	Number/Acres	0	0/0	0/0
		Farmland	Acres	0	0	0
	Prime/Unique Farmland	Salt /Limestone	Type/Specify	Salt	Salt	Salt
Mineral Resources						

**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.

# Appendix

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Preliminary Impact Data  
by Individual Crossing Component  
(Interchange, Plaza, Crossing)



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**Interchange Data**

**Detroit River International Crossing Study  
Evaluation of Practical Alternatives  
Supporting Data - Interchange Only**

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Evaluation Factor	Performance Measure Category	Description/Units	Alternative	Alternative	Alternative	Alternative	Alternative	Alternative	Alternative	Alternative	Alternative	Alternative	Alternative	Alternative	Alternative		
			1	2	3	4	5	6	7	8	9	10	11	12	13		
Protect Community / Neighborhood Characteristics	Traffic Impacts	Streets Closed (permanently)	Number	8	7	9	9	6	8	8	7	7	9	9	9	1	
		Streets Crossed	Number	9	9	13	12	9	9	9	9	9	13	13	12	12	
		Streets Rerouted	Number	5	3	4	3	4	5	5	3	3	4	4	3	0	
		Streets with Interchange	Number	1	1	1	2	1	1	1	1	1	1	1	2	5	
		Railines Crossed	Number	2	2	2	5	2	2	2	2	2	2	2	5	5	
	Noise	Frontline Exposure	Number of dwelling units exposed	109	109	101	107	88	109	109	109	109	101	101	107	28	
		Significant Receptors <sup>1</sup> Exposures	Number /Specify	11	10	10	7	9	11	11	10	11	10	10	7	8	
	Community Cohesion/ Character	Positive/Negative/Neutral		Neutral <sup>5</sup>	Neutral <sup>5</sup>	Neutral <sup>5</sup>	Neutral <sup>5</sup>	Neutral <sup>5</sup>	Neutral <sup>5</sup>	Neutral <sup>5</sup>	Neutral <sup>5</sup>	Neutral <sup>5</sup>	Neutral <sup>5</sup>	Neutral <sup>5</sup>	Neutral <sup>5</sup>	Neutral <sup>5</sup>	
	Potential Acquisition	Residential Units	Occupied	184	180	190	171	233	184	184	180	180	190	190	171	29	
			Vacant	2	1	1	1	2	2	2	1	1	1	1	1	1	0
		Residential Population	Number	451	441	466	419	571	451	451	441	441	466	466	419	71	
			Active	18	17	25	25	25	15	18	14	17	20	25	26	22	
		Business Units	Vacant	14	14	19	16	19	14	14	14	14	19	19	16	10	
			Estimated Employees in affected Census Blocks <sup>2</sup>	Number	60-80	50-70	90-130	90-130	80-110	60-80	60-80	50-70	50-70	90-130	90-130	90-130	60-80
		Other Land Uses Affected <sup>3</sup>	Schools	1	1	0	1	1	1	1	1	1	0	0	1	0	
			Senior Service Facilities	0	0	0	0	0	0	0	0	0	0	0	0	0	
			City/Government Facilities	1	1	1	0	2	1	1	1	1	1	1	1	0	
			Places of Worship	3	4	4	4	2	3	3	4	4	4	4	4	4	
			Medical Facilities	1	1	1	0	1	1	1	1	1	1	1	1	0	
			State/Federal Government Facilities	1	1	1	0	1	1	1	1	1	1	1	1	0	
			Community Services/Parks	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Vacant																
	Environmental Justice / Title VI	EJ Populations in affected Census Block Groups	EJ Population (non poverty)	6,689	6,689	5,619	6,757	6,583	6,689	6,689	6,689	6,689	5,619	5,619	6,757	6,994	
			Population Groups Affected	American Indian, Hispanic	American Indian, Hispanic	American Indian, Hispanic	American Indian, Hispanic	Hispanic	American Indian, Hispanic	American Indian, Hispanic	American Indian, Hispanic	American Indian, Hispanic	American Indian, Hispanic	American Indian, Hispanic	American Indian, Hispanic	American Indian, Hispanic	American Indian, Hispanic
			% Households in Poverty / Above or Below 9.9% Regional Threshold <sup>4</sup>	31.6%/Above	31.6%/Above	32.4%/Above	33.7%/Above	30.8%/Above	31.6%/Above	31.6%/Above	31.6%/Above	31.6%/Above	31.6%/Above	32.4%/Above	32.4%/Above	33.7%/Above	33.9%/Above
			Households in poverty	866	866	717	953	797	866	866	866	866	866	717	717	953	1,038
		Title VI Groups in Census Tracts	Presence of Regionally Prominent Ancestral Groups	None	None	None	None	None	None	None	None	None	None	None	None	None	

Notes:  
1. Sensitive noise receptors are historic sites, medical facilities, parks, places of worship, schools, within fifty meters of an alignment, plaza, or crossing.  
Alt.1,6,7 - All Saints Church, Faith Tabernacle, New Beginning Ministry, El Abrigo Altimo, Military Ave. Church, Michigan Bell Bldg, Fort & Green Police Station, Beard School  
Alt.2,8,9 - All Saints Church, Faith Tabernacle, New Beginning Ministry, Military Ave. Church, Michigan Bell Bldg, Fort & Green Police Station, Beard Early Learning School  
Alt.3,10,11 - All Saints Church, Faith Tabernacle, New Beginning Ministry, El Abrigo Altimo, Michigan Bell Bldg, Fort & Green Police Station, Beard Early Learning School  
Alt. 4 - Old Landmark Church, Faith Tabernacle Church, New Beginning, El Abrigo Altimo, Michigan Bell Bldg, Fort & Green Police Station  
Alt. 5 - First Latin American, Detroit Friends Meeting Quakers, El Abrigo Altimo, Michigan Bell Bldg, Fort & Green Police Station, Beard Early Learning School, Detroit Savings Banks  
Alt. 12 - Faith Tabernacle Church, New Beginning, El Abrigo Altimo, Michigan Bell Bldg, Fort & Green Police Station  
Alt. 13 - Faith Tabernacle Church, New Beginning, El Abrigo Altimo, Detroit Friends Meeting Quakers, Early Learning Beard School, Michigan Bell Bldg, Fort & Green Police Station  
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  
Alt. 1,6,7 - Partial Beard Early Learning Center, First Latin America, Detroit Friends Meeting Quakers, Old Landmark Church, Partial Detroit Public Safety Building/Homeland Security, Metromatrix Services  
Alt. 2, 8, 9 - Partial Beard Early Learning Center, First Latin America, Old Landmark Church, Detroit Friends Meeting Quakers, Military Ave Church, Partial Detroit Public Safety Building/Homeland Security, Metromatrix Human Services  
Alt. 3, 10, 11 - First Latin America, Old Landmark Church, Military Ave Church, Detroit Friends Meeting Quakers, Partial Detroit Public Safety Building  
Alt. 4 - Beard Early Learning Center, First Latin America, Detroit Friends Meeting Quakers, All Saints Church, Military Ave. Church  
Alt. 5 - Partial Beard Early Learning Center, Military Avenue Church, Old Landmark Church, City Waste Disposal Facility, Partial Detroit Public Safety Building/Homeland Security, Metromatrix Human Services  
Alt. 12 - Beard Early Learning Center, Military Avenue Church, First Latin American, All Saints Church, Detroit Friends Meeting Quakers, Partial Detroit Public Safety Building  
Alt. 13 - First Latin America, All Saint, Old Landmark, Military Ave Church, City Waste Disposal Facility, Partial Detroit Public Safety Building/Homeland Security  
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.

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Evaluation of Practical Alternatives  
Supporting Data - Interchange Only**

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Evaluation Factor	Performance Measure Category		Description/Units	Alternative	Alternative	Alternative	Alternative	Alternative	Alternative	Alternative	Alternative	Alternative	Alternative	Alternative	Alternative	
	1	2		3	4	5	6	7	8	9	10	11	12	13		
<b>Maintain Consistency w/Local Planning</b>	Official Plans	Consistency	YES/NO	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
	Other Plans	Consistency	YES/NO	Yes1	Yes1	Yes1	Yes1	Yes1	Yes1	Yes1	Yes1	Yes1	Yes1	Yes1	Yes1	
	Environmental Sites Affecting Plan Implementation (single sites may have multiple designations)	Leaking Undgrd. Stor. Tanks	Number		4	4	3	5	3	4	4	4	3	3	7	5
		EPA/DEQ Hazmat TSD Facility	Number		1	1	1	1	1	1	1	1	1	1	1	1
		National Priority List (Superfund)	Number		0	0	0	0	0	0	0	0	0	0	0	0
		RTK Cerclis (Superfund)	Number		1	1	0	2	1	1	1	1	0	0	3	2
	Michigan Contaminated Site	Number		0	0	0	1	0	0	0	0	0	0	1	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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Evaluation Factor	Performance Measure Category		Description/Units	Alternative	Alternative	Alternative	Alternative	Alternative	Alternative	Alternative	Alternative	Alternative	Alternative	Alternative	Alternative		
				1	2	3	4	5	6	7	8	9	10	11	12	13	
Protect Cultural Resources	Above Ground Historic Resources <sup>1</sup>	Historic Districts (1)	Number	0	0	0	0	0	0	0	0	0	0	0	0	0	
		Listed NRHP Sites/Structures (2)	Number	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		Listed SHRS Sites/ Structures	Number	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		Locally Listed Sites/Structures	Number	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		Potentially Eligible Sites/Str. (3)	Number	2	3	3	4	3	2	2	3	3	3	3	3	3	5
	Archaeology <sup>1</sup>	Prev. Recorded Sites	Number	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Below Ground Resources <sup>1</sup>	Potential to Find/Record	High/Med/Low	Low	Low	Low	Low	Low	Low	Low	Low	Low	Low	Low	Low	Low	Low
	Parkland	All Public Parks	Number/ Acres	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		6(f) Parks	Number/Specify	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		Coastal Zone Management	Number of Projects/Specify <sup>2</sup>	0	0	0	0	0	0	0	0	0	0	0	0	0	0

(1) Hubbard Farms Historic District, roughly bounded by Clark, Lafayette, W. Grand Blv., and Vernor.

(2) Frank H. Beard School, 840 Waterman.

(3) Alt. 1 - Olivet Church, 707 Lewerenz; Apartment Building, 760 Campbell.

Alt. 2 - Olivet Church, 707 Lewerenz; Turnsteads (Fisher Body), 6307 W. Fort; Apartment Bldg, 760 Campbell.

Alt. 3 - Olivet Church, 707 Lewerenz; Turnsteads (Fisher Body), 6307 W. Fort; Apartment Bldg, 760 Campbell.

Alt. 4 - All Saints Church, 7800 W. Fort; Produce Terminal, 7201 W. Fort; Turnsteads (Fisher Body), 6307 W. Fort; Apartment Bldg, 760 Campbell.

Alt. 5 - Olivet Church, 707 Lewerenz; Apartment Bldg, 760 Campbell; Detroit Savings Bank, 5705 W. Fort.

Alt. 6 - Olivet Church, 707 Lewerenz; Apartment Bldg, 760 Campbell.

Alt. 7 - Olivet Church, 707 Lewerenz; Apartment Bldg, 760 Campbell.

Alt. 8 - Olivet Church, 707 Lewerenz; Turnsteads (Fisher Body), 6307 W. Fort; Apartment Bldg, 760 Campbell.

Alt. 9 - Olivet Church, 707 Lewerenz; Turnsteads (Fisher Body), 6307 W. Fort; Apartment Bldg, 760 Campbell.

Alt. 10 - Olivet Church, 707 Lewerenz; Turnsteads (Fisher Body), 6307 W. Fort; Apartment Bldg, 760 Campbell.

Alt. 11 - Olivet Church, 707 Lewerenz; Turnsteads (Fisher Body), 6307 W. Fort; Apartment Bldg, 760 Campbell.

Alt. 12 - All Saints Church, 7800 W. Fort; Turnsteads (Fisher Body), 6307 W. Fort; Apartment Bldg, 760 Campbell.

Alt. 13 - All Saints Church, 7800 W. Fort; Produce Terminal, 7201 W. Fort; Michigan Bell (Vinewood Exc) Building, 7400 W. Fort; Fort & Green Police Station, 7104 W. Fort; Olivet Church, 707 Lewerenz.

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Evaluation of Practical Alternatives  
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Evaluation Factor	Performance Measure Category	Description/Units	Alternative 1	Alternative 2	Alternative 3	Alternative 4	Alternative 5	Alternative 6	Alternative 7	Alternative 8	Alternative 9	Alternative 10	Alternative 11	Alternative 12	Alternative 13	
<b>Protect The Natural Environment</b>	Surface Water	Floodplain	Number/Acres	0	0	0	0	0	0	0	0	0	0	0	0	
		Surface Run Off	Acres	10	10	10	14	11	9	10	9	10	8	10	14	11
		Primary Streams <sup>1</sup>	Number/Specify	0	0	0	0	0	0	0	0	0	0	0	0	0
		Secondary Streams <sup>2</sup>	Number/Specify	0	0	0	0	0	0	0	0	0	0	0	0	0
		Other Water-crossings	Number/Specify	0	0	0	0	0	0	0	0	0	0	0	0	0
	Groundwater	Municipal Wells	Number	0	0	0	0	0	0	0	0	0	0	0	0	0
		Water In-takes	Number/Specify	0	0	0	0	0	0	0	0	0	0	0	0	0
	Significant Habitat	Wetlands	Acres	0	0	0	0	0	0	0	0	0	0	0	0	0
		Fens / Bogs	Number/Acres	0	0	0	0	0	0	0	0	0	0	0	0	0
		Endangered Species	Potential Species	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
		Designated Wildlife Refuges	Number/Acres	0	0	0	0	0	0	0	0	0	0	0	0	0
	Prime/Unique Farmland	Farmland	Acres	0	0	0	0	0	0	0	0	0	0	0	0	
	Mineral Resources	Salt /Limestone	Type/Specify	Salt	Salt	Salt	Salt	Salt	Salt	Salt	Salt	Salt	Salt	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/les with an average width less than 50ft/15m.

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## Plaza Data



**Detroit River International Crossing Study  
Evaluation of Practical Alternatives  
Supporting Data - Plazas Only**

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Evaluation Factor	Performance Measure Category		Description/Units	Alt. 1	Alt. 2	Alt. 3	Alt. 4	Alt. 5	Alt. 6	Alt. 7	Alt. 8	Alt. 9	Alt. 10	Alt. 11	Alt. 12	Alt. 13		
		Noise		Frontline Exposure	Number of dwelling units exposed	101	101	101	101	101	95	105	95	105	95	105	95	72
		Significant Receptors <sup>1</sup> Exposures	Number /Specify <sup>1</sup>	2	2	2	2	2	2	2	2	2	2	2	2	2		
	Community Cohesion/ Character	Positive/Negative/Neutral		Neutral <sup>5</sup>	Neutral <sup>5</sup>	Neutral <sup>5</sup>	Neutral <sup>5</sup>	Neutral <sup>5</sup>	Neutral <sup>5</sup>	Neutral <sup>5</sup>	Neutral <sup>5</sup>	Neutral <sup>5</sup>	Neutral <sup>5</sup>	Neutral <sup>5</sup>	Neutral <sup>5</sup>	Neutral <sup>5</sup>		
	Potential Acquisition	Residential Units	Occupied	151	151	151	151	151	113	168	113	168	113	168	113	160		
			Vacant	4	4	4	4	4	0	17	0	17	0	17	0	4		
		Residential Population	Number	370	370	370	370	370	277	412	277	412	277	412	277	392		
			Active	18	18	18	18	18	26	18	26	18	26	18	26	22		
		Business Units	Vacant	11	11	11	11	11	11	8	11	8	11	8	11	5		
			Estimated Employees in affected Census Blocks <sup>2</sup>	Number	281	281	281	281	281	294	281	294	281	294	281	294	304	
		Other Land Uses Affected <sup>3</sup>	Schools		0	0	0	0	0	0	0	0	0	0	0	0	0	
				Senior Service Facilities		0	0	0	0	0	0	0	0	0	0	0	0	0
				City/Government Facilities		2	2	2	2	2	1	2	1	2	1	2	2	
				Places of Worship		3	3	3	3	3	1	3	1	3	1	3	3	
			Medical Facilities		0	0	0	0	0	1	0	1	0	1	0	0		
			State/Federal Government Facilities		1	1	1	1	1	0	1	0	1	0	1	0		
			Community Services		0	0	0	0	0	0	0	0	0	0	0	0		
			Vacant		0	0	0	0	0	0	0	0	0	0	0	0		
	Environmental Justice / Title VI	EJ Population (non poverty)		1,524	1,524	1,524	1,524	1,524	617	1,524	617	1,524	617	1,524	617	1,524		
		EJ Populations in affected Census Block Groups	Population Groups Affected	African American, American Indian, Hispanic	African American, American Indian, Hispanic	African American, American Indian, Hispanic	African American, American Indian, Hispanic	African American, American Indian, Hispanic	American Indian, Hispanic	African American, American Indian, Hispanic	American Indian, Hispanic	African American, American Indian, Hispanic	American Indian, Hispanic	African American, American Indian, Hispanic	American Indian, Hispanic	African American, American Indian, Hispanic		
			% Households in Poverty / Above or Below 9.9% Regional Threshold <sup>4</sup>	39.6%/Above	39.6%/Above	39.6%/Above	39.6%/Above	39.6%/Above	37.5%/Above	39.6%/Above	37.5%/Above	39.6%/Above	37.5%/Above	39.6%/Above	37.5%/Above	39.6%/Above		
			Households in poverty	296	296	296	296	296	138	296	138	296	138	296	138	296		
	Title VI Groups in Census Tracts	Presence of Regionally Prominent Ancestral Groups		None	None	None	None	None	None	None	None	None	None	None	None	None		
	Public Safety/ Security (Plaza Only)	Proximity to Industry <sup>5</sup>	Number of heavy industry businesses w/ 1/2 mile	3	3	3	3	3	2	3	2	3	2	3	2	3		
				Number of medium industry businesses w/ 1/2 mile	6	6	6	6	6	5	6	5	6	5	6	5	6	
				Number of light industry/office businesses w/ 1000ft/300m	4	4	4	4	4	3	4	3	4	3	4	3	3	
		Proximity to Residential / Retail	Number of residences w/ 500ft/150m	49	49	49	49	49	94	59	94	59	94	59	94	59	68	
				Number of businesses w/ 500ft/150m	10	10	10	10	10	30	11	30	11	30	11	30	13	
		Proximity to Hazardous Materials	Number of EPA/DEQ Hazmat TSD Facilities w/ 500ft/150m	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
			Emergency Response	Distance to nearest fire station (mi)	0.6	0.6	0.6	0.6	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	
					Distance to nearest police station (mi)	0.9	0.9	0.9	0.9	0.9	0.5	0.9	0.5	0.9	0.5	0.9	0.5	0.8
					Number of streets closed (perm.)	14	14	14	14	14	14	17	14	17	14	17	14	17
					Number of streets closed (during const.)	11	11	11	11	11	11	16	11	16	11	16	11	15
		Mainline Rrailines Rerouted	2	2	2	2	2	2	5	2	5	2	5	2	3			

Notes:  
1. Sensitive noise receptors are historic sites, medical facilities, parks, places of worship, schools, within fifty meters an interchange, plaza, or crossing.  
Alt. 1-13: Historic Fort Wayne & Southwestern High School  
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. Alt. 1-5: Rademacher Recreation Center, Detroit Sewer and Water Department, New Day Church, Saint Paul AME, Abundant Life Apostolic Overcoming Holy Church, Family Independence Agency  
Alt. 6,8,10,12: City Waste Disposal Facility, Greater Apostolic Faith Church  
Alt. 7,9,11: 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  
Alt. 13: Rademacher Recreation Center, Detroit Sewer and Water Department, New Day Church, Saint Paul AME, Abundant Life Apostolic Overcoming Holy Church  
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. Alt. 1-5: (H) Mistersky Power Station, Detroit Thomas Edison Plant, Lafarge (M) Arvin Meritor, Produce Terminal, Hascal Steel, Progressive Distribution Center, Bridgewater Interiors, Yellow Trucking  
Alt. 6,8,10,12: (H) Mistersky Power Station, Detroit Thomas Edison Plant (M) Port of Detroit, O.J. Logistics, Arvin Meritor, Bridgewater Interiors, Progressive Distribution Center  
Alt. 7,9,11: (H) Mistersky Power Station, Detroit Thomas Edison Plant, Lafarge (M) Arvin Meritor, Produce Terminal, Progressive Distribution Center, Yellow Trucking, Bridgewater Interiors  
Alt. 13: (H) Mistersky Power Station, Detroit Thomas Edison Plant, Lafarge (M) Arvin Meritor, Produce Terminal, O.J. Logistics, Progressive Distribution Center, Yellow Trucking, Bridgewater Interiors

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Evaluation Factor	Performance Measure Category		Description/Units	Alt. 1-5		Alt. 6,8,10,12		Alt. 7,9,11		Alt. 13	
	Official Plans	Consistency		Yes <sup>1</sup>	No	Yes <sup>1</sup>	No	Yes <sup>1</sup>	No	Yes <sup>1</sup>	No
Maintain Consistency w/Local Planning	Other Plans	Consistency	YES/NO	Yes <sup>1</sup>	No	Yes <sup>1</sup>	No	Yes <sup>1</sup>	No	Yes <sup>1</sup>	No
	Environmental Sites Affecting Plan Implementation (single sites may have multiple designations)	Leaking Undergrd. Stor. Tanks	Number	1	1	3	1	1	1	2	2
		EPA/DEQ Hazmat TSD Facility	Number	0	0	0	0	0	0	0	0
		National Priority List (Superfund)	Number	0	0	0	0	0	0	0	0
		RTK Cerclis (Superfund)	Number	2	2	2	2	2	2	2	2
	Michigan Contaminated Site	Number	3	3	2	3	3	3	3	3	

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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Evaluation Factor	Performance Measure Category	Description/Units	Alt. 1-5			Alt. 6,8,10,12			Alt. 7,9,11			Alt. 13		
			Number	High/Med/Low	Medium	Number	High/Med/Low	Medium	Number	High/Med/Low	Medium	Number	High/Med/Low	Medium
Protect Cultural Resources	Above Ground Historic Resources	Historic Districts	0			0			0			0		
		Listed NRHP Sites/Structures	0			0			0			0		
		Listed SHRS Sites/ Structures	0			0			0			0		
		Locally Listed Sites/Structures	0			0			0			0		
	Below Ground Resources	Potentially Eligible Sites/Str.	1(1)			2(2)			1(1)			1(1)		
		Prev. Recorded Sites	2(3)			2(4)			2(5)			2(5)		
		Potential to Find/Record	High/Med/Low			Medium			Medium			Medium		
		All Public Parks	Number/ Acres			1/2.4(6)			1/1.1(6)			1/2.4(6)		
		6(f) Parks	Number/Specify			0			0			0		
		Coastal Zone Management	Number of Projects/Specify			0			0			0		

**Notes:**

- (1) St. Paul A.M.E. Church, 581-585 S. Rademacher
- (2) Roberts Brass Mfg. Co. (vacant), 5401-5409 E. Fort; Detroit Savings Bank, 5705 W. Fort
- (3) 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
- (4) 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]); 20WN407, Colliot 2 (c. 1796 farmstead location as depicted on Colliot Map of Detroit Settlement-conjectural location)
- (5) 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
- (6) Public Parks: Alt. 1-5, 7,9,11,13 Rademacher Park; Alt. 6,8,10,12 City of Detroit Park



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Evaluation Factor	Performance Measure Category	Description/Units	Alt.			
			1-5	6,8,10,12	7,9,11	13
Protect The Natural Environment	Surface Water	Floodplain	0	0/0	0/0	0/0
		Surface Run Off	164	158	173	175
		Primary Streams	0	0	0	0
	Groundwater	Secondary Streams	0	0	0	0
		Other Water-crossings	0	0	0	0
		Municipal Wells	0	0	0	0
	Significant Habitat	Water In-takes	0	0	0	0
		Wetlands	0	0	0	0
		Fens / Bogs	0	0	0	0
	Prime/Unique Farmland	Endangered Species <sup>3</sup>	0	0	0	0
		Designated Wildlife Refuges	0/0	0/0	0/0	0/0
		Farmland	0	0	0	0
	Mineral Resources	Salt / Limestone	Salt	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/les 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

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## Crossing Data

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Evaluation Factor	Performance Measure Category		Description/Units	10A	10A	10B	10B	11	11	11	
				Alt. 1-4	Alt. 5	Alt. 1-4	Alt. 5	Alt. 6,8,10,12	Alt. 7,9,11	Alt. 13	
Protect Community / Neighborhood Characteristics	Traffic Impacts	Streets Closed (permanently)	Number	0	0	0	0	0	4	0	
		Streets Closed (temporarily)	Number	1	1	1	1	1	2	2	
		Streets Crossed	Number	2	2	2	2	1	4	0	
		Streets Rerouted	Number	0	0	0	0	0	0	0	
		Streets with Interchange	Number	NA	NA	NA	NA	NA	NA	NA	
		Railines Crossed	Number	1	0	2	0	0	0	0	
	Noise	Frontline Exposure	Number of dwelling units exposed	0	4	0	4	0	4	0	
		Significant Receptors <sup>1</sup> Exposures	Number /Specify <sup>2</sup>	2	2	2	2	2	2	2	
	Community Cohesion/ Character	Positive/Negative/Neutral		Neutral <sup>6</sup>	Neutral <sup>6</sup>	Neutral <sup>6</sup>	Neutral <sup>6</sup>	Neutral <sup>6</sup>	Neutral <sup>6</sup>	Neutral <sup>6</sup>	
	Potential Acquisition	Residential Units	Occupied		0	0	0	0	0	16	0
			Vacant		0	0	0	0	0	0	0
		Residential Population	Number		0	0	0	0	0	39	0
			Active		3	3	2	2	0	3	0
		Business Units	Vacant		0	0	0	0	0	2	0
			Estimated Employees in affected Census Blocks <sup>3</sup>	Number	151	151	100	100	0	0	0
		Other Land Uses Affected	Schools		0	0	0	0	0	0	0
			Senior Service Facilities		0	0	0	0	0	0	0
			City/Government Facilities		0	0	0	0	0	0	0
			Places of Worship		0	0	0	0	0	0	0
			Medical Facilities		0	0	0	0	0	0	0
			State/Federal Government Facilities		0	0	0	0	0	0	0
			Community Services		0	0	0	0	0	0	0
	Vacant			0	0	0	0	0	0	0	
	Environmental Justice / Title VI	EJ Populations in affected Census Block Groups	EJ Population (non poverty)		490	490	490	490	0	617	617
			Population Groups Affected		African American, American Indian, Hispanic	African American, American Indian, Hispanic	African American, American Indian, Hispanic	African American, American Indian, Hispanic	None	American Indian, Hispanic	American Indian, Hispanic
			% Households in Poverty / Above or Below 9.9% Regional Threshold <sup>4</sup>		36.2%/Above	36.2%/Above	36.2%/Above	36.2%/Above	None	37.5%/Above	37.5%/Above
		Households in poverty		76	76	76	76	0	138	138	
	Title VI Groups in Census Tracts	Presence of Regionally Prominent Ancestral Groups		None	None	None	None	None	None	None	
	Public Safety/ Security (Plaza Only)	Proximity to Industry <sup>5</sup>	Number of heavy industry businesses w/ 1/2 mile		3	3	3	3	3	3	3
			Number of medium industry businesses w/ 1/2 mile		1	1	1	1	2	4	4
			Number of light industry/office businesses w/ 1000ft/300m		0	0	0	0	0	3	3
		Proximity to Residential / Retail	Number of residences w/ 500ft/150m		16	16	13	13	0	29	29
			Number of businesses w/ 500ft/150m		4	4	4	4	1	5	5
Proximity to Hazardous Materials		Number of EPA/DEQ Hazmat TSD Facilities w/ 500ft/150m		0	0	0	0	0	0	0	
		Emergency Response	Distance to nearest fire station (mi)		0.14	0.14	0.14	0.14	0.4	0.4	0.4
			Distance to nearest police station (mi)		1.4	1.4	1.4	1.4	0.4	0.4	0.4
			Number of streets closed (perm.)		0	0	0	0	0	2	2
			Number of streets closed (during const.)		1	1	1	1	1	2	2
Mainline Railines Rerouted		0	0	0	0	0	0	0			

Notes:  
1. Sensitive noise receptors are historic sites, medical facilities, parks, places of worship, schools, within fifty meters to an interchange, plaza, or crossing.  
2. Sensitive noise receptors for the Alt. 1-13 are Historic Fort Wayne & Delray Park Public Boat Launch  
3. 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.  
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. Alt 1-5 - (H) Zug Island, Lafarge, Detroit Thomas Edison (M) Yellow Trucking  
Alt. 6,8,10,12 - (H) Mistersky Power Station, Port of Detroit, Detroit Edison (M) OJ Logistics, Bridgewater Interiors  
Alt. 7,9,11,13 - (H) Mistersky Power Plant, Port of Detroit, Detroit Edison (M) OJ Logistics, Bridgewater Interiors, Hascal Steel, Packing Materials Company  
6. 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.



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Evaluation Factor	Performance Measure Category		Description/Units	10A Alt. 1-5		10B Alt. 1-5		11 Alt. 6,8,10,12		11 Alt. 7,9,11,13	
	Official Plans	Consistency		Yes	Yes <sup>1</sup>	Yes	Yes <sup>1</sup>	Yes	Yes <sup>1</sup>	Yes	Yes <sup>1</sup>
Maintain Consistency w/Local Planning	Other Plans	Consistency	YES/NO	Yes	Yes <sup>1</sup>	Yes	Yes <sup>1</sup>	Yes	Yes <sup>1</sup>	Yes	Yes <sup>1</sup>
	Environmental Sites Affecting Plan Implementation (single sites may have multiple designations)	Leaking Undgrd. Stor. Tanks	Number	0	0	0	0	0	0	0	0
		EPA/DEQ Hazmat TSD Facility	Number	0	0	0	0	0	0	0	0
		National Priority List (Superfund)	Number	1	1	1	1	1	1	1	1
		RTK Cerclis (Superfund)	Number	1	1	1	1	1	1	1	1
		Michigan Contaminated Site	Number	1	1	1	1	1	1	1	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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Evaluation Factor	Performance Measure Category		Description/Units	10A Alt. 1-5		10B Alt. 1-5		11 Alt. 6,8,10,12		11 Alt. 7,9,11,13	
	Above Ground Historic Resources	Below Ground Resources		Number	Number	Number	Number	Number	Number	Number	Number
<b>Protect Cultural Resources</b>	Historic Districts		Number	0	0	0	0	0	0	0	0
	Listed NRHP Sites/Structures <sup>1</sup>		Number	1	1	1	1	1	1	1	1
	Listed SHRS Sites/ Structures		Number	0	0	0	0	0	0	0	0
	Locally Listed Sites/Structures		Number	0	0	0	0	0	0	0	0
	Potentially Eligible Sites/Str. <sup>2</sup>		Number	0	0	0	0	0	0	0	0
	Archaeology		Number	0	0	0	0	0	0	0	0
	Below Ground Resources	Potential to Find/Record <sup>3</sup>	High/Med/Low	Medium	Medium	Medium	Medium	Medium	Medium	Medium	
	Parkland	All Public Parks	Number/ Acres	0	0	0	0	0	0	0	
		6(f) Parks	Number/Specify	0	0	0	0	0	0	0	
		Coastal Zone Management	Number of Projects/Specify <sup>2</sup>	0/0	0/0	0/0	0/0	0/0	0/0	0/0	

1. National Registered Historic Places, Historic Fort Wayne  
 2. Above Ground Historic Resources, Potentially eligible site/str. - Mistersky Power Station 5467 W. Jefferson  
 3. Archaeology, Prev. Recorded Sites.- 20WN3 Copper Works Mound (Alternate Location)

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Evaluation Factor	Performance Measure Category	Description/Units	10A		10B		11	
			Alt. 1-5	Alt. 1-5	Alt. 1-5	Alt. 6,8,10,12	Alt. 7,9,11,13	
Protect The Natural Environment	Surface Water	Floodplain	3	0	0.21	0	0.21	0
		Surface Run Off	11.1	10.4	7.9	0	8.2	0
		Primary Streams <sup>1</sup>	1: Detroit R.	1: Detroit R.	1: Detroit R.	1: Detroit R.	1: Detroit R.	1: Detroit R.
	Groundwater	Secondary Streams <sup>2</sup>	0	0	0	0	0	0
		Other Water-crossings	0	0	0	0	0	0
		Municipal Wells	0	0	0	0	0	0
	Significant Habitat	Water In-takes	Number/Specify					
		Wetlands	Number/Specify					
		Fens / Bogs	Acres	0	0	0	0	0
		Endangered Species <sup>3</sup>	Number/Specify	0/0	0/0	0/0	0/0	0/0
Prime/Unique Farmland Mineral Resources	Designated Wildlife Refuges	Potential Species	0/0	0/0	0/0	0/0	0/0	
	Farmland	Number/Specify	0	0	0	0	0	
		Salt/Limestone	Salt	Salt	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: 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.