

## MODEL MINIMUM INVENTORY OF ROADWAY ELEMENTS (MMIRE):

### PROPOSED INTERSECTION VARIABLES

March 3, 2009

### III. ROADWAY JUNCTION DESCRIPTORS

#### III.B. INTERCHANGE AND RAMP DESCRIPTORS

##### III.B.1. GENERAL INTERCHANGE DESCRIPTORS

###### 162. UNIQUE INTERCHANGE IDENTIFIER

**Definition:** A numeric unique identifier for each interchange

**Attributes:**

- Node number, LRS of primary route, etc.

**Source of Coding:** Project Team

###### 163. LOCATION IDENTIFIER FOR ROAD 1 CROSSING POINT

**Definition:** Location on the first intersecting route (e.g. route-milepost)

**Attributes:**

- Route and location descriptors (e.g., route and milepoint or route and spatial coordinates). Must be consistent with other MMIRE files for linkage.

**Source of Coding:** Project Team

###### 164. LOCATION IDENTIFIER FOR ROAD 2 CROSSING POINT

**Definition:** Location on the second intersecting route (e.g. route-milepost)

**Attributes:**

- Route and location descriptors (e.g., route and milepoint or route and spatial coordinates). Must be consistent with other MMIRE files for linkage.

**Source of Coding:** Project Team

###### 165. LOCATION IDENTIFIER FOR ROAD 3, 4, ETC. CROSSING POINT

**Definition:** Location on the third and subsequent intersecting route (e.g. route-milepost)

**Attributes:**

- Route and location descriptors (e.g., route and milepoint or route and spatial coordinates). Must be consistent with other MMIRE files for linkage.

**Source of Coding:** Project Team

###### 166. INTERCHANGE TYPE (DIAMOND, CLOVER, ETC.)

**Definition:** Type of interchange

**Attributes:**

- Diamond
- Full cloverleaf
- Partial cloverleaf
- SPUI
- Other

**Source of Coding:** Project Team

### **167. INTERCHANGE LIGHTING**

**Definition:** Type of interchange lighting

**Attributes:**

- None
- Full interchange-area lighting
- Partial interchange lighting
- Continuous lighting on one or more approach roads
- Other

**Source of Coding:** Project Team

### **III.B.2. INTERCHANGE RAMP DESCRIPTORS**

(NOTE that each ramp in an interchange is described by the following variables. Thus, each ramp record includes a full description of an individual ramp. If a ramp splits into two ramps, a new record is generated for the second and all subsequent ramps.)

### **168. UNIQUE RAMP IDENTIFIER**

**Definition:** An identifier for each ramp that is part of a given interchange. This defines which ramp the following variables are describing.

**Attributes:**

- Alpa or Numeric – each set of interchange ramps could begin with “1” or “A”.

**Source of Coding:** Project Team

### **169. RAMP LENGTH**

**Definition:** Length of ramp

**Attributes:**

- Miles, feet or meters

**Source of Coding:** SafetyAnalyst

### **170. RAMP NO. OF LANES**

**Definition:** Number of lanes on ramp

**Attributes:**

- Numeric

**Source of Coding:** SafetyAnalyst

### **171. RAMP AADT**

**Definition:** AADT on ramp

**Attributes:**

- Numeric

**Source of Coding:** All sources

### **172. RAMP POSTED SPEED LIMIT**

**Definition:** The posted (not advisory) speed limit on the ramp

**Attributes:**

- Numeric
- No posted limit (i.e., limit will be the same as on the connecting roadways)

**Source of Coding:** Project Team

### **173. FEATURE AT BEGINNING RAMP TERMINAL**

**Definition:** A ramp is described by a beginning and ending ramp terminal in the direction of inventory. This variable describes the type of feature intersecting with the ramp at the beginning terminal.

**Attributes:**

- Freeway
- Non-freeway (surface street)
- Other Ramp
- Frontage road
- Other

**Source of Coding:** Project Team

### **174. RAMP DESCRIPTOR AT BEGINNING RAMP TERMINAL**

**Definition:** Description of the beginning terminal of the ramp

**Attributes:**

- Acceleration Lane
- Deceleration Lane
- Weaving lane (e.g., the weaving area joining two ramps under an overpass in a cloverleaf interchange)
- Intersection with roadway – ramp stop/yield controlled
- Intersection with roadway – ramp signal controlled
- Another ramp
- Other

**Source of Coding:** Project Team

### **175. LOCATION IDENTIFIER FOR ROADWAY AT BEGINNING RAMP TERMINAL**

**Definition:** Location on the roadway at the beginning ramp terminal (e.g. route-milepost for that roadway) if the ramp connects with a roadway at that point.

**Attributes:**

- Route and location descriptors (e.g., route and milepoint or route and spatial coordinates) for the roadway intersected at the beginning ramp terminal. Must be consistent with other MMIRE files for linkage.
- NA (Not applicable) if beginning terminal is not at a roadway (e.g., another ramp)

**Source of Coding:** Project Team

### **176. ROADWAY TRAFFIC FLOW DIRECTION AT BEGINNING RAMP TERMINAL**

**Definition:** Ramps can intersect a roadway on either of two sides. This defines the side of the road intersected by the ramp.

**Attributes:**

- Increasing direction of flow (with respect to roadway inventory direction)
- Decreasing direction of flow (with respect to roadway inventory direction)
- NOTE – Alternative coding could be compass direction of flow

**Source of Coding:** Project Team

### **177. FEATURE AT ENDING RAMP TERMINAL**

**Definition:** A ramp is described by a beginning and ending ramp terminal in the direction of inventory. This variable describes the type of feature intersecting with the ramp at the ending terminal.

**Attributes:**

- Freeway
- Non-freeway (surface street)
- Other Ramp
- Frontage road
- Other

**Source of Coding:** Project Team

### **178. RAMP DESCRIPTOR AT ENDING RAMP TERMINAL**

**Definition:** Description of the ending terminal of the ramp

**Attributes:**

- Acceleration Lane
- Deceleration Lane
- Weaving lane (e.g., the weaving area joining two ramps under an overpass in a cloverleaf interchange)
- Intersection with roadway – ramp stop/yield controlled
- Intersection with roadway – ramp signal controlled
- Another ramp
- Other

**Source of Coding:** Project Team

### **179. LOCATION IDENTIFIER FOR ROADWAY AT ENDING RAMP TERMINAL**

**Definition:** Location on the roadway at the beginning ramp terminal (e.g. route-milepost for that roadway) if the ramp connects with a roadway at that point.

**Attributes:**

- Route and location descriptors (e.g., route and milepoint or route and spatial coordinates) for the roadway intersected at the ending ramp terminal. Must be consistent with other MMIRE files for linkage.
- NA (Not applicable) if ending terminal is not at a roadway (e.g., another ramp)

**Source of Coding:** Project Team

### **180. ROADWAY TRAFFIC FLOW DIRECTION AT ENDING RAMP TERMINAL**

**Definition:** Ramps can intersect a roadway on either of two sides. This defines the side of the road intersected by the ramp.

**Attributes:**

- Increasing direction of flow (with respect to roadway inventory direction)
- Decreasing direction of flow (with respect to roadway inventory direction)
- NOTE – Alternative coding could be compass direction of flow

**Source of Coding:** Project Team