

Survey Data Needed for Traffic Control Devices

Survey Data Needed

➤ **Signals**

➤ Existing features needed:

- ✓ Right-of-way boundaries
- ✓ Edge of pavement, curb, and back of walk
- ✓ Pavement markings – Lane lines, crosswalks, etc
- ✓ ADA ramps
- ✓ Utilities (above & below ground) and transformers
- ✓ Rail crossings & equipment
- ✓ Traffic Signal Features
 - ✓ Superstructure – Poles, cabinets, etc.
 - ✓ Substructure – Junction boxes, conduit, loops, etc.

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Typical Traffic Signal

1. Underground utilities up to 17' (and potentially up to 30') down in 16' survey area (pole foundation contents)
2. Underground utilities up to 5' down in 3' survey area (walks and 1-foot offsets)
3. Above ground utilities and wire heights in 16' survey area up to 60' in height (mast arm & span wire offsets)
4. Power poles with transformers (potential power source)
5. Lane lines, flag lines, crosswalks, and ADA ramps
6. Any existing signal features (control cabinet, poles, j-boxes, loops, etc)

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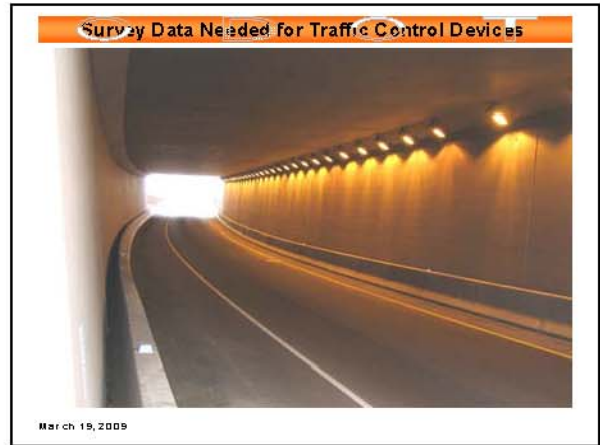
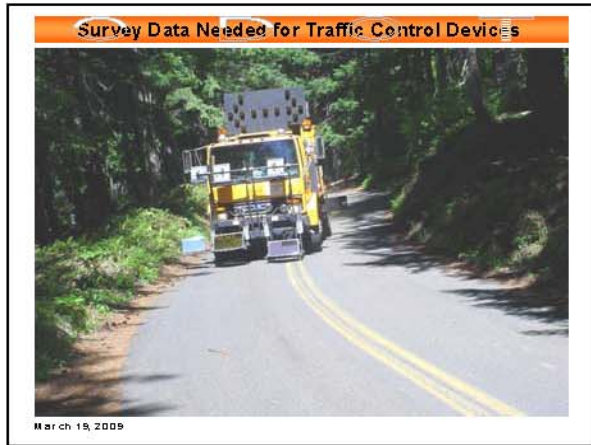
Survey Data Needed

➤ **Pavement Markings**

➤ Existing features needed:

- ✓ Edge of pavement, curb, and back of walk
- ✓ Signs (HDM, Appendix D with photos)
- ✓ Rumble strips
- ✓ Pavement Markings
 - ✓ Longitudinal and transverse markings

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➤ **Illumination**

➤ Existing features needed:

- ✓ Right-of-way boundaries
- ✓ Edge of pavement, curb, back of walk, back of ditch
- ✓ Pavement markings – Lane lines, crosswalks, etc
- ✓ Utilities (above & below ground) and transformers
- ✓ Digital terrain model
- ✓ Structures – Railing, wing walls, buildings, awnings
- ✓ **Illumination Features**
 - ✓ Superstructure – Poles, luminaire vertical height, cabinets, etc.
 - ✓ Substructure – Junction boxes, conduit, etc.

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➤ **Traffic Structures**

➤ Existing features needed:

- ✓ Right-of-way boundaries
- ✓ Edge of pavement, curb, and back of walk
- ✓ Pavement markings – Lane lines, crosswalks, etc
- ✓ Utilities (above & below ground)
- ✓ Digital terrain model
- ✓ **Traffic Structures Features**
 - ✓ Superstructure – Vertical elevation of members
 - ✓ Substructure – Top of foundation elevation, anchor rods (number and diameter), top of anchor rod elevation

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