

# PREREQUISITES FOR UNDERGROUND INSPECTION

CHECKLIST TO BE COMPLETED AND SUBMITTED PRIOR TO REQUESTING  
SIGNAL INSPECTION

INTERSECTION \_\_\_\_\_  
PROJECT ID \_\_\_\_\_

CONTRACTOR REPRESENTATIVE \_\_\_\_\_  
DOT REPRESENTATIVE \_\_\_\_\_

CONTR  
YES NO

DOT  
YES NO

COMMENT

### CONDUIT - GENERAL (SDD-9B2)

|                          |                          |   |                          |                          |  |
|--------------------------|--------------------------|---|--------------------------|--------------------------|--|
| <input type="checkbox"/> | <input type="checkbox"/> | Are the number and size of conduit installed in accordance with the plans and SDD?          | <input type="checkbox"/> | <input type="checkbox"/> |  |
| <input type="checkbox"/> | <input type="checkbox"/> | Is a conduit run the same size from one pull box or junction to another?                    | <input type="checkbox"/> | <input type="checkbox"/> |  |
| <input type="checkbox"/> | <input type="checkbox"/> | Was trenched conduit inspected prior to backfill?   | <input type="checkbox"/> | <input type="checkbox"/> |  |
| <input type="checkbox"/> | <input type="checkbox"/> | Are conduit curves bent with proper diameter? (Utilize approved method of bending)          | <input type="checkbox"/> | <input type="checkbox"/> |  |
| <input type="checkbox"/> | <input type="checkbox"/> | Is conduit under traveled way buried at least 24" but not more than 36"?                    | <input type="checkbox"/> | <input type="checkbox"/> |  |
| <input type="checkbox"/> | <input type="checkbox"/> | Is conduit outside traveled way buried at least 18" but not more than 36"?                  | <input type="checkbox"/> | <input type="checkbox"/> |  |
| <input type="checkbox"/> | <input type="checkbox"/> | Are all conduits installed so they drain and have no pockets of trapped water in long runs? | <input type="checkbox"/> | <input type="checkbox"/> |  |
| <input type="checkbox"/> | <input type="checkbox"/> | Have the conduit ends been cleaned? Are all plugs or caps in place?                         | <input type="checkbox"/> | <input type="checkbox"/> |  |
| <input type="checkbox"/> | <input type="checkbox"/> | Are the conduits placed so that they are not stacked?                                       | <input type="checkbox"/> | <input type="checkbox"/> |  |
| <input type="checkbox"/> | <input type="checkbox"/> |   | <input type="checkbox"/> | <input type="checkbox"/> |  |

### PULL BOXES (SDD-9B4)

|                          |                          |   |                          |                          |  |
|--------------------------|--------------------------|---|--------------------------|--------------------------|--|
| <input type="checkbox"/> | <input type="checkbox"/> | Are the number and size of pull boxes installed in accordance with the plans and SDD?   | <input type="checkbox"/> | <input type="checkbox"/> |  |
| <input type="checkbox"/> | <input type="checkbox"/> | Do the pull boxes match the proposed finished grade, not below or above the grade? Unless required in aggregate shoulder - See SDD) | <input type="checkbox"/> | <input type="checkbox"/> |  |
| <input type="checkbox"/> | <input type="checkbox"/> | Are the conduit holes sized appropriately, conduit diameter plus no more than 1/4" ?  | <input type="checkbox"/> | <input type="checkbox"/> |  |
| <input type="checkbox"/> | <input type="checkbox"/> | Does the conduit extend a maximum of 3" into the pull boxes?  | <input type="checkbox"/> | <input type="checkbox"/> |  |
| <input type="checkbox"/> | <input type="checkbox"/> | Do all conduits enter the pull boxes at least 6" above the bottom?  | <input type="checkbox"/> | <input type="checkbox"/> |  |
| <input type="checkbox"/> | <input type="checkbox"/> | Are drain sumps installed where needed? Contact EFU for input.  | <input type="checkbox"/> | <input type="checkbox"/> |  |
| <input type="checkbox"/> | <input type="checkbox"/> | Is there proper drainage for all pull boxes?  | <input type="checkbox"/> | <input type="checkbox"/> |  |
| <input type="checkbox"/> | <input type="checkbox"/> | Are there any extra or unused holes in the pull boxes?  | <input type="checkbox"/> | <input type="checkbox"/> |  |
| <input type="checkbox"/> | <input type="checkbox"/> | Was 12" of No. 2 stone installed under the pull box with levelling bricks? (See SDD)  | <input type="checkbox"/> | <input type="checkbox"/> |  |

**CONTR**  
**YES NO**

**DOT**  
**YES NO**

**COMMENT**

**CONCRETE SIGNAL BASES**

|                          |                          |   |                          |                          |       |
|--------------------------|--------------------------|---|--------------------------|--------------------------|-------|
| <input type="checkbox"/> | <input type="checkbox"/> | Are all concrete bases installed in accordance with the plans and SDD?                        | <input type="checkbox"/> | <input type="checkbox"/> | _____ |
| <input type="checkbox"/> | <input type="checkbox"/> | Are all concrete bases level, round, not cracked and without voids?                           | <input type="checkbox"/> | <input type="checkbox"/> | _____ |
| <input type="checkbox"/> | <input type="checkbox"/> | Are the bases at proper elevation and location? Was the variance in plans approved by WisDOT? | <input type="checkbox"/> | <input type="checkbox"/> | _____ |
| <input type="checkbox"/> | <input type="checkbox"/> | Are all conduit installed in each base per the SDD? (Correct number and size)                 | <input type="checkbox"/> | <input type="checkbox"/> | _____ |
| <input type="checkbox"/> | <input type="checkbox"/> | Any existing/proposed overhead utility conflicts?   | <input type="checkbox"/> | <input type="checkbox"/> | _____ |
| <input type="checkbox"/> | <input type="checkbox"/> | Has a 1" conduit been installed for grounding as required on pertinent SDD's?                 | <input type="checkbox"/> | <input type="checkbox"/> | _____ |

**TYPE 1, 2, & 5 (SDD-9C2)**

|                          |                          |   |                          |                          |       |
|--------------------------|--------------------------|---|--------------------------|--------------------------|-------|
| <input type="checkbox"/> | <input type="checkbox"/> | Are base bolts plumb and parallel with road?                                  | <input type="checkbox"/> | <input type="checkbox"/> | _____ |
| <input type="checkbox"/> | <input type="checkbox"/> | Are conduit ends 1" above the top of concrete base?                           | <input type="checkbox"/> | <input type="checkbox"/> | _____ |
| <input type="checkbox"/> | <input type="checkbox"/> | Are concrete base anchor rods of proper grade, length, diameter and material? | <input type="checkbox"/> | <input type="checkbox"/> | _____ |

**CONCRETE MONOTUBE BASES - TYPE 10 & 13 (SDD-9C11 and 9C12) and Type 9&10 Special (SPV)**

|                          |                          |   |                          |                          |       |
|--------------------------|--------------------------|---|--------------------------|--------------------------|-------|
| <input type="checkbox"/> | <input type="checkbox"/> | Prior to pouring concrete, was bolt elevation, alignment and arm position verified? | <input type="checkbox"/> | <input type="checkbox"/> | _____ |
| <input type="checkbox"/> | <input type="checkbox"/> | Are the conduit ends at least 4 1/2" above the top of concrete base?                | <input type="checkbox"/> | <input type="checkbox"/> | _____ |
| <input type="checkbox"/> | <input type="checkbox"/> |   | <input type="checkbox"/> | <input type="checkbox"/> | _____ |

**CONCRETE CABINET BASES - Type 9 Special (SDD-9C6)**

|                          |                          |  |                          |                          |       |
|--------------------------|--------------------------|--|--------------------------|--------------------------|-------|
| <input type="checkbox"/> | <input type="checkbox"/> | Is the cabinet base and pad level, intact, not cracked or damaged and without voids? | <input type="checkbox"/> | <input type="checkbox"/> | _____ |
| <input type="checkbox"/> | <input type="checkbox"/> | Is the cabinet located at a high point to prevent drainage into cabinet?             | <input type="checkbox"/> | <input type="checkbox"/> | _____ |
| <input type="checkbox"/> | <input type="checkbox"/> | Are all conduits in the cabinet base?  | <input type="checkbox"/> | <input type="checkbox"/> | _____ |
| <input type="checkbox"/> | <input type="checkbox"/> | Is the cabinet placed as far from the traveled way as possible?                      | <input type="checkbox"/> | <input type="checkbox"/> | _____ |
| <input type="checkbox"/> | <input type="checkbox"/> | Is meter breaker pedestal installed at a proper grade line?                          | <input type="checkbox"/> | <input type="checkbox"/> | _____ |
| <input type="checkbox"/> | <input type="checkbox"/> |  | <input type="checkbox"/> | <input type="checkbox"/> | _____ |

**LOOPS**

|                          |                          |  |                          |                          |       |
|--------------------------|--------------------------|--|--------------------------|--------------------------|-------|
| <input type="checkbox"/> | <input type="checkbox"/> | Are the loops installed as shown on the plans? Verify size, number of turns and installation method. | <input type="checkbox"/> | <input type="checkbox"/> | _____ |
| <input type="checkbox"/> | <input type="checkbox"/> | Are the far loop locations accurately measured from the NEAR RIGHT SIGNAL?                           | <input type="checkbox"/> | <input type="checkbox"/> | _____ |
| <input type="checkbox"/> | <input type="checkbox"/> | Are loops in conflict with any utilites? If yes, check with engineer for a new location.             | <input type="checkbox"/> | <input type="checkbox"/> | _____ |