## CORRUGATED METAL ARCH CULVERT INSPECTION FORMS

District: _____ Inspected by: _____

BMS #: _____ Inspection Date: _____

### CULVERT GEOMETRY:

Height of Cover: _____

Structure Length: _____ Number of Barrels: _____

Max Span Length: _____ Max Barrel Length: _____
(inlet to outlet)

Headwall Type: _____ Wingwall Type: _____

### DEFECTS:

Is roadway settlement or repair apparent? Yes ☐ No ☐

Roadway Settlement/Repair Notes:

Headwall and Wingwall Defects:

Shape:

| | | | | |
|---|---|---|---|---|
| Is flattening or bulging present? | Yes | ☐ | No | ☐ |
| If yes, is it caused by corrosion? | Yes | ☐ | No | ☐ |
| Is this a change from the previous inspection? | Yes | ☐ | No | ☐ |

If flattening/bulging is present complete the following:

Location of defect: _____

Length of defect (along barrel): _____ Width of defect (along arc): _____

Additional Shape Notes:

Maintenance Priority Codes for Corrosion Induced Flattening/Bulging:

| | |
|---|---|
| > 3" distortion caused by corrosion = | Code 0 ☐ |
| > 2", ≤ 3" distortion caused by corrosion = | Code 1 ☐ |
| ≤ 2" distortion caused by corrosion = | Code 2 ☐ |

## CORRUGATED METAL ARCH CULVERT INSPECTION FORMS

District: _____ Inspected by: _____

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## DEFECTS (continued):

Corrosion and Section Loss: Original Metal Thickness: _____

Notes:

***Worst 4' Length of Corrosion:***

Location: _____

# of corrugations w/ holes: _____

% of corrugations w/ holes: _____

# of corrugations w/ 0, 25, 50 or 75% section loss*: _____ w/ 0% Estimated Section Loss

*Account for all remaining corrugations in the 4' length. This data is used to calculate remaining life below.

_____ w/ 25% Estimated Section Loss

_____ w/ 50% Estimated Section Loss

_____ w/ 75% Estimated Section Loss

% bolts missing/ineffective: _____

Consecutive bolts missing over 1' to 2' L? Yes ☐ No ☐

Maintenance Priority Codes for Corrosion (descriptions apply to worst 4' length documented above):

Severe corrosion (holes in ≥ 50% of corrugations) = Code 0 ☐

Serious corrosion (some minor holes) = Code 1 ☐

Advanced corrosion = Code 2 ☐

If Priority Code 2 is assigned above, estimate the remaining useful life of the culvert. To assist with this calculation there is a spreadsheet in the link on the BMS2 message board named: PennDOT Bridge Inspection Forms and Templates.

Maintenance Priority Codes for Bolt Deficiencies (descriptions apply to worst 4' length documented above):

Approximately 50% or more bolts/nuts missing or ineffective = Code 0 ☐

Consecutive bolts/nuts missing for a length of 1' to 2' = Code 1 ☐

## CORRUGATED METAL ARCH CULVERT INSPECTION FORMS

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Provide a sketch of the culvert and stream including alignment, scour conditions, debris/blockage, erosion, defects, corrosion/section loss and associated dimensions as applicable.

**CORRUGATED METAL ARCH CULVERT INSPECTION FORMS**

District: _____ Inspected by: _____

BMS #: _____ Inspection Date: _____

SUPPLEMENTAL INSPECTION NOTES/SKETCHES: