



RCP - Reinforced Concrete Pipe & Baffles (90" RC Pipe & Baffles)

# SR 3020 OVER TRIBUTARY OF WYOMISSING CK MOHNTON BOROUGH BRIDGE REPLACEMENT

Berks County, PA

The PA Department of Transportation project entailed the Mohnton Boro Bridge Replacement of the existing two span steel pipe culverts conveying a tributary of Wyomissing Creek with a single barrel 90" pipe culvert for STATE ROUTE 3020, SECTION 01B, in MOHNTON BORO, BERKS COUNTY, PA.

Roadway over culvert will have two 11 foot lanes and 4 foot shoulders. Structure length is 122 feet, for a total of approximate length of 475 feet (.090 miles).

## CONSTRUCTION CHALLENGE

Oldcastle Infrastructure had extensive experience with manufacturing the 66" & 90" RCP Culvert but needed to create a new joint for the 90" RCP Culvert. In collaboration with CCJM Engineers they designed and engineered a new 90" baffle for the 90" RCP culvert.

## PRECAST SOLUTION

Oldcastle Infrastructure designed, engineered and shipped 120 Linear feet of RCP Culvert which was comprised of : 90" RCP culvert ; 66" RCP culvert and 90" baffles to replace the steel pipe culverts that were deteriorated.

## DESIGN & CONSTRUCTION TEAM

**General Contractor**  
J D Eckman

**Owner**  
PA DOT

**PA DOT Contract Amount:**  
\$968,000

**Precaster**  
Oldcastle Infrastructure

**Manufacturing Facility**  
Oldcastle Infrastructure  
Telford; Folsom & Croydon, PA



**SCOPE OF WORK**

**Precast Structure**

**A. STRUCTURAL ENGINEERING**

Detailed engineering:

Drawings: Detailed drawings

**B. Precast Concrete Product**

Size: 66" \* & 90" RCP & Baffles

Concrete: 5000 psi concrete

40.00 FT	20663481	66" O-RING A/S 25'-1.5' 351.30 14,052.00
5.00 Ea	24302018	66" O-Ring Gasket
72.00 Ft	20903382	90" O-Ring Type A/S 25'-1.5' Fill **Oring Joint**
5.00 Ea	4000180	90" Baffles O/Ring for The 90" Pipe for 25'-1.5' Fill***Item 9000-0002** Aprox Weight is 22 Tons Baffels to Join the Pipe The Dimensions Are Aprox 14' L X 13' W By 2' Thick**
9.00 Ea	24000027	Mastic Joint Sealant**For The 90" Baffels**
9.00 Ea	24302022	90" O-Ring Gasket
10.00 Ea	24000023	Gasket Lube 3.5 Gallon Pail

**About Oldcastle Infrastructure**

Oldcastle Infrastructure, A CRH Company, is the leading provider of building materials, products and services for infrastructure projects to several market sectors nationwide, including: Building Structures, Communications, Energy, Transportation and Water.

**For More Information Contact:**

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