

SPECIFICATIONS

For

Precast Concrete Box Culvert and "Clamshell Dam Structure"

Scope: This specification shall cover ASTM C 1577 precast box culverts and headwalls.

GENERAL SPECIFICATIONS

A. Quantities:

60 feet of 10 ft span x 4 ft rise Box Culvert - 4' and 8' lengths as detailed on attached drawing
10 feet of 10 ft span x 4 ft rise "Clamshell Control Structure" as detailed on the attached drawing

B. Delivery:

Material shall be subject to delivery to the following location within Newaygo County under the following conditions:

1. 8527 S. Mundy Avenue, Newaygo, Michigan 49337
2. The Newaygo County Road Commission (NCRC) will coordinate delivery with the supplier.
3. The NCRC will unload culvert sections from the supplier and stockpile these for later use.
4. The NCRC will be responsible for subsequent moving of culvert sections.

C. Inspection:

1. Material will be subject to inspection by the Newaygo County Road Commission during manufacture and upon delivery.
2. If material fails to meet the requirements of the specifications and as bid, they will be rejected and returned to the Vendor at the Vendor's expense without any charges incurred by the Road Commission.

D. Price:

1. FOB to 8527 S. Mundy Avenue, Newaygo, Michigan 49337
2. Price (less all state and federal taxes) shall be per foot of length for culvert and for each for clamshell.

TECHNICAL SPECIFICATIONS

A. Standard Specifications:

1. All material and box culvert products shall comply with the Michigan Department of Transportation 2020 "Standard Specifications for Highway Construction", Section 706.
2. Where the Standard Specifications are referred to, the Michigan Department of Transportation, the 2020 Standard Specifications for Construction shall apply.

- B.** Sections cast for the end of a structure designed without precast concrete box culvert end sections shall be cast with male or female ends on the exterior end of the section to allow future widening of the structure.
- C.** Precast concrete box sections shall be constructed in accordance with ASTM C 1577 as applicable, the attached plan, and shall have sufficient structural integrity to withstand handling, transportation, and installation. For purpose of this bid request, the installed earth coverage height (from surface of roadway to top of box culvert) is 1 (one) foot.
- D.** Shop drawings will be required for all box culvert installations. Shop drawings will be subject to approval by the Newaygo County Road Commission prior to fabrication.
- E.** Gasket and mastic materials shall be provided by the culvert manufacturer per MDOT Standard Specifications. The cost for these materials shall be included with the box culvert. Provide enough mastic to seal the external sides of all culvert joints.
- F.** Producer shall have Q-Cast Certification.

Note: Questions concerning specifications should be directed to Mike Brege, mbrege@newaygoroads.org, 231-689-6682.

BID FORM**For Precast Concrete Box Culvert and Intake Structure**

<u>Item</u>	<u>Quantity</u>	<u>Price per LFT or Each</u>	<u>Total Cost</u>
10' x 4' Box Culvert	60 LFT	\$ _____	\$ _____
*Clamshell	1 Ea	\$ _____	\$ _____
Total			\$ _____

ESTIMATED DELIVERY DATE: _____

***The clamshell consists of 10 lineal feet of intake structure/dam structure. Galvanized or Aluminum Rails for "stop boards" or "stop logs" are included per the drawings. Threaded inserts along the weir surface are included as well. Stop log assemblies themselves are the responsibility of the Newaygo County Road Commission.**

****The Newaygo County Road Commission will accept alternate design of clamshell end section.**

Cash Discounts will be allowed for prompt payment as follows: ___% cash discount if paid within 30 days after delivery and acceptance of goods or completion of service.

Company Name: _____

Company Address: _____

Telephone Number: _____ Fax Number: _____

Email Address: _____

Signature of Authorized Agent _____

Printed name and title: _____

Date: _____ Federal Employer ID# _____

