



MISSOURI DEPARTMENT OF TRANSPORTATION
BID GUIDELINES AND DOCUMENTATION

THIS IS NOT AN ORDER

REQUEST FOR BID

*****THIS DOCUMENT MUST BE RETURNED AS A SEALED BID*****

It is the vendor's responsibility to read and comply with all conditions, specifications, and instructions outlined in this document. This document and any subsequent attachments shall supersede all confirmation forms, receipts, or any other paperwork needed to secure materials, equipment, or services.

TODAY'S DATE: DECEMBER 02, 2015	BID DUE BY (DATE AND TIME): DECEMBER 18, 2015 BY 1:00 PM CT	F.O.B. REQUIREMENTS: DESTINATION (SEE DELIVERY LOCATIONS BELOW)
SPECIFY THE TIME YOU WILL REQUIRE TO MAKE DELIVERY AFTER THE RECEIPT OF ANY ORDERS PLACED.	BID #: KC-B16-007 SEALED BID THIS BID # SHOULD BE REFERENCED ON ALL MAILING LABELS, ENVELOPES, AND ANY OTHER CORRESPONDENCE.	BUYER NAME: TONI TERRY SR. GENERAL SERVICES TECHNICIAN PHONE: 816-347-4112 TONI.TERRY@MODOT.MO.GOV
District Mailing Address: Missouri Department of Transportation Kansas City District General Services - Procurement 600 NE Colbern Road Lee's Summit, MO 64086		REFER TO THE ENCLOSED LIST OF FACILITIES IN THE KANSAS CITY DISTRICT . ORDERS MAY BE PLACED AS-NEEDED FOR DELIVERY TO ANY OF THE BUILDINGS LISTED HEREIN DURING THE CONTRACT PERIOD (DATE OF AWARD THROUGH NOVEMBER 30, 2017)

REQUIRED SPECIFICATIONS

Materials for the CORRUGATED POLYETHYLENE CULVERT PIPE must comply with MoDOT specification # MGS-92-13C and any other provisions outlined in the solicitation documents. The Kansas City District will only accept "TYPE S" CORRUGATED POLYETHYLENE CULVERT PIPE AS DESCRIBED IN SECTION 2.1 (corrugated surface outside and smooth inner liner). The material to be supplied must comply with the requirements of Section 1047 of the Missouri Standard Specifications for Highway Construction, Edition of 2011, and any revisions thereto, unless modified by these specifications. FURTHERMORE, THE KANSAS CITY DISTRICT WILL ONLY ACCEPT PLAIN END PIPE (PLAIN END-BANDABLE-ONLY). BEEL & SPIGOT END PIPE OR SNAP TOGETHER POLY PIPE WILL NOT BE ACCEPTED. Materials must be sourced from vendors on MoDOT's approved list "Qualified Fabricators of Corrugated Polyethylene Culvert Pipe" (FS-1047 Table 1).

Bidders must submit pricing on all line items listed on Page 2. All line items are listed as quantity of 1, simply so that a per foot/each price may be locked in for any future orders. The unit prices quoted for each line item will be the unit pricing used for any as-needed orders, which may be placed throughout the duration of the contract through November 30, 2017. MoDOT reserves the right to renew for one (1) additional year if both parties are in agreement.

The MoDOT Kansas City District understands standard pipe lengths are 10, 20, 24, and 30 foot joints. We also understand other "odd size" lengths may be ordered up to a maximum of 40 to 50 feet (please list maximum length), but longer lead times may occur when ordering non-standard size pipe lengths. If your standard lengths are different than these, please make note of your standard sizes, and available minimum and maximum lengths below.

COMPANY NAME:

PRICING PAGE

Award of this solicitation will be made on an "All or Nothing" basis using the "Lowest and Best" principle of award. Since pipe lengths (minimum and maximum footages) may vary slightly from vendor to vendor, we require each bidder to submit their pricing on their "per foot" or "each" rate, per line item.

ALL LINE ITEMS ARE LISTED AS QUANTITY OF 1, SO THAT A PER FOOT/EACH PRICE MAY BE LOCKED IN FOR ANY FUTURE ORDERS. THE UNIT PRICES QUOTED FOR EACH LINE ITEM WILL BE THE UNIT PRICING USED FOR ANY AS-NEEDED ORDERS.

Item	Qty.	U/M	Commodity Code	DESCRIPTION (including size and/or part #'s)	UNIT PRICE Per Foot
001	1	LF	2102926210	12" Type S Corrugated Poly Culvert Pipe	\$
002	1	EA	2102926215	12" Poly Bands (widest made-including hardware)	\$
003	1	LF	2102926220	15" Type S Corrugated Poly Culvert Pipe	\$
004	1	EA	2102926225	15" Poly Bands (widest made-including hardware)	\$
005	1	LF	2102926230	18" Type S Corrugated Poly Culvert Pipe	\$
006	1	EA	2102926235	18" Poly Bands (widest made-including hardware)	\$
007	1	LF	2102926240	24" Type S Corrugated Poly Culvert Pipe	\$
008	1	EA	2102926245	24" Poly Bands (widest made-including hardware)	\$
009	1	LF	2102926250	30" Type S Corrugated Poly Culvert Pipe	\$
010	1	EA	2102926255	30" Poly Bands (widest made-including hardware)	\$
011	1	LF	2102926260	36" Type S Corrugated Poly Culvert Pipe	\$
012	1	EA	2102926265	36" Poly Bands (widest made-including hardware)	\$
013	1	LF	2102926270	42" Type S Corrugated Poly Culvert Pipe	\$
014	1	EA	2102926275	42" Poly Bands (widest made-including hardware)	\$
015	1	LF	2102926280	48" Type S Corrugated Poly Culvert Pipe	\$
016	1	EA	2102926285	48" Poly Bands (widest made-including hardware)	\$

TOTAL ORDER EXTENSION:	\$
Delivery Time (# of workdays / A.R.O. = After Receipt of Order):	_____ A.R.O.

Qualified Materials Supplied By (Manufacturer):	
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KANSAS CITY DELIVERY LOCATIONS

All orders placed during this contract period shall be delivered to various MoDOT maintenance facilities as identified by each order issued. The following lists potential delivery points in the MoDOT Kansas City District. Price all materials as F.O.B. Destination. **Delivery costs must be included in the unit prices and not listed separately.**

COUNTY	FACILITY LOCATION	Org	MT DIVISION	OFFICE	MOBILE
CASS	Belton 17321 S Peculiar Drive Belton, MO 64012	7C03	George Duncan	816.322.3868	816.572.8681
	Harrisonville 27821 S. State Route 7 Harrisonville, MO 64701	7C10	William Van Dyne	816.380.3721	816.809.8457
CLAY	Skiles 3800 N.E. Skiles Ave. Kansas City, MO 64161	7C36	W. Joe Sims	816.467.7927	816.518.2091
	Northmoor 5248 Waukomas Dr Kansas City, MO 64151	7C25	J. Tim Arnold	816.741.0447	816.572.8634
	Kearney 301 W 92 Hwy. Kearney, MO 64060	7C15	J. Deon Grigsby	816.628.5636	816.806.2085
JACKSON	Kansas City District Office 600 NE Colbern Road Lee's Summit 64086	7C95	Joey Hinton		
	Independence 910 N 291 Hwy. Independence, MO 64058	7C71	Deloris Goetz	816.220.6625	816.872.5913
	Mulberry 650 Mulberry Street Kansas City, MO 64101	7C01	Clem Anderson	816.889.2137	816.806.1804
	Stadium North 9109 E 40th Terrace Kansas City, MO 64133	7C32	Chris Williams	816.353.5901	816.718.6847
	Lee's Summit East 3050 NE Independence Ave. Lee's Summit, MO 64064	7C18	Scott R. Banes	816.622.0502	816.564.6702
JOHNSON	Warrensburg 8 NE 375 Warrensburg, MO 64093	7C34	TJ Williams	660.543.7936	816.225.8745
	Knob Noster 143 NE 23 Hwy. Knob Noster, MO 65336	7C16	David Eppright	660.563.3066	816.813.1510
LAFAYETTE	Odessa 7353 Outer Road Odessa, MO 64076	7C26	Robert Ralston	816.230.7712	816.572.8687
	Concordia 601 N Main Concordia, MO 64020	7C06	Tim Koch	660.463.2522	660.815.1428
PETTIS	Sedalia 2200 South Limit Sedalia, MO 65301	7C31	Justin Anderson	660.530.5580	660.351.1172
PLATTE	Platte City 16105 Elm Grove Road Platte City, MO 64079	7C27	David Johnson	816.858.2731	816.813.1512
	Nashua 1910 NW Cookingham Dr. Kansas City, MO 64155	7C24	Doug Patton	816.437.3510	816.419.2004
RAY	Richmond 42896 Old Hwy. 10 Richmond, MO 64085	7C29	C. Dale Malott	816.470.6306	660.292.0231
SALINE	Marshall 1595 W Arrow Marshall, MO 65340	7C21	Milton Wright	660.886.3464	660.815.1465

Right of Acceptance/Rejection

MoDOT reserves the right to reject any or all bids/quotes/proposals, and to accept or reject any items thereon, and to waive technicalities. In case of error in the extension of prices in the solicitation response, unit prices will govern.

General Performance

This work is to be performed under the general supervision and direction of MoDOT and, if awarded any portion of the work, the Contractor agrees to furnish at his/her own expense all labor and equipment required to complete the work, it being expressly understood that this solicitation is for completed work based upon the price(s) specified according to the scope of work and the requirements and specifications detailed within the solicitation documents.

Invoicing and Payment

Each invoice should be itemized in accordance with items listed on the purchase order and/or contract. The statewide financial management system has been designed to capture certain receipt and payment information. Therefore, each invoice submitted must reference the purchase order number and must be itemized in accordance with items listed on the purchase order. Failure to comply with this requirement may delay processing of invoices for payment. Unless otherwise provided for in the solicitation documents, payment for all equipment, supplies, and/or services required herein shall be made in arrears. The MHTC shall not make any advance deposits. The MHTC assumes no obligation for equipment, supplies, and/or services shipped or provided in excess of the quantity ordered. Authorized quantity is subject to the MHTC's rejection and shall be returned at the Contractor's expense. The MHTC reserves the right to purchase goods and services using the state-purchasing card.

Inspection and Acceptance

No equipment, supplies, and/or services received by MoDOT pursuant to a contract shall be deemed accepted until MoDOT has had reasonable opportunity to inspect said equipment, supplies, and/or services. All equipment, supplies, and/or services which do not comply with the specifications and/or requirements or which are otherwise unacceptable or defective may be rejected. In addition, all equipment, supplies, and/or services which are discovered to be defective or which do not conform to any warranty of the Contractor upon inspection (or at any later time if the defects contained were not reasonably ascertainable upon the initial inspection) may be rejected. The MHTC reserves the right to return any such rejected shipment at the Contractor's expense for full credit or replacement and to specify a reasonable date by which replacements must be received. The MHTC's right to reject any unacceptable equipment, supplies, and/or services shall not exclude any other legal, equitable or contractual remedies the MHTC may have.

All responses to this Request For Bid MUST be submitted on this form and all pages MUST be returned to the Buyer in a sealed envelope with the Bid Number on front of the envelope to the mailing address listed above.

***Notification of award will be at the time the tabulation is posted to the Internet.
It is the sole responsibility for all bidders to check the website for bid results.***

Bidders are encouraged to obtain minority business enterprise (MBE) and women business enterprise (WBE) participation in this work through the use of subcontractors, suppliers, joint ventures, or other arrangements that afford meaningful participation for M/WBEs. Bidders are encouraged to obtain 10% MBE and 5% WBE participation.

Vendor Notes

VENDORS MAY ATTACH OTHER PERTINENT/SUPPORTING DATA WITH THEIR RESPONSE TO THIS SOLICITATION.

VENDOR INFORMATION & PREFERENCE CERTIFICATION FORM

Vendor Information

All bidders must furnish **ALL** applicable information requested below

Vendor Name/Mailing Address: Email Address:	Vendor Contact Information (including area codes): Phone #: Cellular #: Fax #:
Printed Name of Responsible Officer or Employee:	Signature:
For Corporations - State in which incorporated:	For Others - State of domicile:

If the address listed in the Vendor Name/Mailing Address block above is not located in the State of Missouri, list the address of Missouri offices or places of business:

*If additional space is required, please attach an additional sheet and identify it as **Addresses of Missouri Offices or Places of Business.***

M/WBE INFORMATION: List all certified Minority or Women Business Enterprises (**M/WBE**) utilized in the fulfillment of this bid. Include percentages for subcontractors and identify the M/WBE certifying agency:

<u>M/WBE Name</u>	<u>Percentage of Contract</u>	<u>M/WBE Certifying Agency</u>
_____	_____	_____
_____	_____	_____

*If additional space is required, please attach an additional sheet and identify it as **M/WBE Information***

Preference Certification

All bidders must furnish **ALL** applicable information requested below

GOODS/PRODUCTS MANUFACTURED OR PRODUCED IN USA: If any or all of the goods or products offered in the attached bid which the bidder proposes to supply to the MHTC are **not** manufactured or produced in the "United States", or imported in accordance with a qualifying treaty, law, agreement, or regulation, list below, by item or item number, the country other than the United States where each good or product is manufactured or produced.

Item (or item number)	Location Where Item is Manufactured or Produced

*If additional space is required, please attach an additional sheet and identify it as **Location Products are Manufactured or Produced.***

MISSOURI SERVICE-DISABLED VETERAN BUSINESS: Please complete the following if applicable. Additional information may be requested if preference is applicable. See below definitions for qualification criteria:

Service-Disabled Veteran is defined as any individual who is disabled as certified by the appropriate federal agency responsible for the administration of veterans' affairs.

Service-Disabled Veteran Business is defined as a business concern:

- Not less than fifty-one (51) percent of which is owned by one or more service-disabled veterans or, in the case of any publicly owned business, not less than fifty-one (51) percent of the stock of which is owned by one or more service-disabled veterans; and
- The management and daily business operations of which are controlled by one or more service-disabled veterans.

Veteran Information

Business Information

Service-Disabled Veteran's Name (Please Print)

Service-Disabled Veteran Business Name

Service-Disabled Veteran's Signature

Missouri Address of Service Disabled Veteran Business

Missouri Highways and Transportation Commission
Standard Bid Provisions, General Terms and Conditions and Special Terms and Conditions

STANDARD SOLICITATION PROVISIONS

- a. The solicitation for the procurement of the supplies referenced therein, to which these "Standard Bid Provisions, General Terms and Conditions and Special Terms and Conditions" are attached, is being issued under, and governed by, the provisions of Title 7 – Missouri Department of Transportation, Division 10 – Missouri Highways and Transportation Commission, Chapter 11 – Procurement of Supplies, of the Code of State Regulations. The Missouri Highways and Transportation Commission (**MHTC**), acting by and through its operating arm, the Missouri Department of Transportation (**MoDOT**), draws the Bidder's attention to said 7 CSR 10-11 for all the provisions governing solicitation and receipt of bids/quotes and the award of the contract pursuant to this solicitation.
- b. All bids/quotes must be signed with the firm name and by a responsible officer or employee. Obligations assumed by such signature must be fulfilled.

GENERAL TERMS AND CONDITIONS

Definitions

Capitalized terms as well as other terms used but not defined herein shall have the meaning assigned to them in section 7 CSR 10-11.010 Definition of Terms.

Nondiscrimination

- a. The Contractor shall comply with all state and federal statutes applicable to the Contractor relating to nondiscrimination, including, but not limited to, Chapter 213, RSMo; Title VI and Title VII of Civil Rights Act of 1964 as amended (42 U.S.C. Sections 2000d and 2000e, *et seq.*); and with any provision of the "Americans with Disabilities Act" (42 U.S.C. Section 12101, *et seq.*).
- b. **Sanctions for Noncompliance:** In the event of the Contractor's noncompliance with the nondiscrimination provisions of this contract, MHTC shall impose such contract sanctions as it or the Federal Highway Administration may determine to be appropriate, including, but not limited to:
 - i. withholding of payments to the Contractor under the contract until the Contractor complies, and/or,
 - ii. cancellation, termination or suspension of the contract, in whole or in part.

Contract/Purchase Order

- a. By submitting a bid/quote, the Bidder agrees to furnish any and all equipment, supplies and/or services specified in the solicitation documents, at the prices quoted, pursuant to all requirements and specifications contained therein.
- b. A binding contract shall consist of: (1) the solicitation documents, amendments thereto, and/or Best and Final Offer (BAFO) request(s) with any changes/additions, (2) the Contractor's bid response, and (3) the MHTC's acceptance of the bid by post-award contract or purchase order.
- c. A notice of award does not constitute an authorization for shipment of equipment or supplies or a directive to proceed with services. Before providing equipment, supplies and/or services, the Contractor must receive a properly authorized notice to proceed and/or purchase order.

Applicable Laws and Regulations

- a. The contract shall be construed according to the laws of the State of Missouri. The Contractor shall comply with all local, state, and federal laws and regulations related to the performance of the contract. The exclusive venue for any legal proceeding relating to or arising, out of the contract shall be in the Circuit Court of Cole County, Missouri.
- b. The Contractor must be registered and maintain good standing with the Secretary of State of the State of Missouri, Missouri Department of Revenue, and other regulatory agencies, as may be required by law or regulations. Prior to the issuance of a purchase order and/or notice to proceed, the Contractor may be required to submit to MHTC a copy of their current Authority Certificate from the Secretary of State of the State of Missouri and/or a copy of their Certificate of No Tax Due from the Missouri Department of Revenue.
- c. Prior to the issuance of a purchase order and/or notice to proceed, all **out-of-state** Contractors **providing services** within the state of Missouri must submit to MHTC a copy of their current Transient Employer Certificate from the Missouri Department of Revenue, in addition to a copy of their current Authority Certificate from the Secretary of State of the State of Missouri.

Executive Order:

The Contractor shall comply with all the provisions of Executive Order 07-13, issued by the Honorable Matt Blunt, Governor of Missouri, on the sixth (6th) day of March, 2007. This Executive Order, which promulgates the State of Missouri's position to not tolerate persons who contract with the state engaging in or supporting illegal activities of employing individuals who are not eligible to work in the United States, is incorporated herein by reference and made a part of this Agreement.

- 1) "By signing this Agreement, the Contractor hereby certifies that any employee of the Contractor assigned to perform services under the contract is eligible and authorized to work in the United States in compliance with federal law."
- 2) In the event the Contractor fails to comply with the provisions of the Executive Order 07-13, or in the event the Commission has reasonable cause to believe that the contractor has knowingly employed individuals who are not eligible to work in the United States in violation of federal law, the Commission reserves the right to impose such contract sanctions as it may determine to be appropriate, including but not limited to contract cancellation, termination or suspension in whole or in part or both.
- 3) The Contractor shall include the provisions of this paragraph in every subcontract. The Contractor shall take such action with respect to any subcontract as the Commission may direct as a means of enforcing such provisions, including sanctions for noncompliance.

Preferences

- a. In the evaluation of bids/quotes, preferences shall be applied in accordance with 7 CSR 10-11.020(7). Contractors should apply the same preferences in selecting subcontractors. The attached document entitled "**VENDOR INFORMATION AND PREFERENCE CERTIFICATION FORM**" must be completed and returned with the solicitation documents.
- b. Bidders are encouraged to obtain minority business enterprise (MBE) and women business enterprise (WBE) participation in this work through the use of subcontractors, suppliers, joint ventures, or other arrangements that afford meaningful participation for M/WBEs. Bidders are encouraged to obtain 10% MBE and 5% WBE participation.

Missouri Highways and Transportation Commission
Standard Bid Provisions, General Terms and Conditions and Special Terms and Conditions

Cancellation of Contract

The MHTC may cancel the Contract at any time for a material breach of contractual obligations or for convenience by providing Contractor with written notice of cancellation. Should the MHTC exercise its right to cancel the contract for such reasons, cancellation will become effective upon the date specified in the notice of cancellation sent to the Contractor.

Bankruptcy or Insolvency

Upon filing for any bankruptcy or insolvency proceeding by or against the Contractor, whether voluntarily, or upon the appointment of a receiver, trustee, or assignee, for the benefit of creditors, the Commission reserves the right and sole discretion to either cancel the Agreement or affirm the Agreement and hold the Contractor responsible for damages.

Warranty

The Contractor expressly warrants that all equipment, supplies, and/or services provided shall: (1) conform to each and every specification, drawing, sample or other description which was furnished to or adopted by the MHTC, (2) be fit and sufficient for the purpose expressed in the solicitation documents, (3) be merchantable, (4) be of good materials and workmanship, and (5) be free from defect.

Status of Independent Contractor

The Contractor represents itself to be an independent Contractor offering such services to the general public and shall not represent itself or its employees to be an employee of the MHTC. Therefore, the Contractor shall assume all legal and financial responsibility for taxes, FICA, employee fringe benefits, workers' compensation, employee insurance, minimum wage requirements, overtime, etc., and agrees to indemnify, save and hold the MHTC, its officers, agents and employees harmless from and against any and all losses (including attorney fees) and damage of any kind related to such matters.

Non-Waiver

If one of the parties agrees to waive its right to enforce any term of this Contract, that party does not waive its right to enforce such term at any other time or to enforce any or all other terms of this Contract.

Indemnification

The Contractor shall defend, indemnify and hold harmless MHTC, including its members and department employees, from any claim or liability whether based on a claim for damages to real or personal property or to a person for any matter relating to or arising out of the Contractor's performance of its obligations under the contract awarded pursuant to this solicitation.

Missouri Highways and Transportation Commission
Standard Bid/Proposal Provisions, General Terms and Conditions and Special Terms and Conditions

SPECIAL TERMS AND CONDITIONS

Tax Exempt Status:

MHTC is exempt from paying Missouri Sales Tax, Missouri Use Tax and Federal Excise Tax. However, the Contractor may themselves be responsible for the payment of taxes on materials they purchase to fulfill the contract. A Project Tax Exemption Certificate will be furnished to the successful Bidder upon request if applicable.

Permits, Licenses and Safety Issues

The contract price shall include any necessary permits and licenses required by law incidental to the work. Local ordinances requiring building permits are not applicable to state agencies.

Delivery – Additional Requirements

- a. The Contractor shall furnish the Missouri Department of Transportation with a planned delivery schedule **at least 24 hours before** starting delivery.
 - 1) Notification should be during the normal workday preceding the day on which the Contractor desires to initiate delivery.
 - 2) It will be necessary for a representative of the Missouri Department of Transportation to be present when the material is delivered.
 - 3) No material will be accepted that has been unloaded in the absence of the department's representative.
- b. Unless otherwise specified in the proposal, no deliveries will be made on **Saturdays, Sundays and holidays** unless specifically authorized by the engineer or his representative.
- c. The following days shall be construed as **official holidays** under the terms of the contract:

January 1	New Year's Day
Third Monday in January	Martin Luther King, Jr.'s Birthday
February 12	Lincoln's Birthday
Third Monday in February	Washington's Birthday
May 8	Truman's Birthday
Last Monday in May	Memorial Day
July 4	Independence Day
First Monday in September	Labor Day
Second Monday in October	Columbus Day
November 11	Veteran's Day
Fourth Thursday in November	Thanksgiving Day
December 25	Christmas Day

- d. When any of the above **holidays falls** on a **Sunday**, the holiday will be observed on the following **Monday**; when any of the above **holidays falls** on a **Saturday**, the **holiday** will be observed on the immediately preceding **Friday**.

Liquidated Damages

- a. In the event the successful Contractor fails to deliver the material within the time specified, the Department and the public will sustain damages because of such delay in delivery, the exact extent of which would be difficult to ascertain, and in order to liquidate such damage in advance it is agreed that the **sum of \$150.00 per day, per item**, for each assessable calendar day on which the delivery has not been completed, is reasonable and the best estimate which the parties can arrive at as liquidated damages, and it is therefore agreed that said amount will be withheld from payments due the Contractor or otherwise collected from the Contractor as liquidated damages.
- b. **Saturdays, Sundays, holidays and days whereas the Department has suspended work** shall not be assessable days.



CORRUGATED POLYETHYLENE CULVERT PIPE MGS-92-13C

1.0 DESCRIPTION. These specifications cover the purchase of corrugated polyethylene culvert pipe for maintenance purposes.

2.0 MATERIALS. The pipe shall comply with applicable sections of [Specification Sec 1047](#), except as noted herein.

2.1 Pipe shall be furnished as one of the following types. Unless otherwise specified in the bid request, only Type S will be permitted.

Type S -	corrugated surface outside and smooth inner liner
Type SP -	perforated Type S pipe

3.0 ORDERING INFORMATION.

3.1 Diameter, length, and quantity of pipe, are to be shown in the order. If perforations or a specific type are required, the type is also to be shown.

4.0 ACCEPTANCE. Material will be accepted in accordance with [Specification Sec 1047](#).



SECTION 1047

CORRUGATED POLYETHYLENE CULVERT PIPE

1047.1 Scope. This specification covers corrugated polyethylene culvert pipe and steel reinforced polyethylene culvert pipe used for the construction of culverts and other uses specified in the contract documents.

1047.2 Basis of Acceptance. Acceptance of polyethylene culvert pipe will be based on the pipe being provided by a qualified manufacturer, certification, manufacturer quality control documentation, identification markings and tests on samples of the material as required by the engineer.

1047.3 Material. Polyethylene culvert pipe, couplings and fittings shall be in accordance with AASHTO M 294 or AASHTO MP 20, Type S pipe. In case of conflict with AASHTO M 294 or AASHTO MP 20, these specifications shall govern.

1047.3.1 Minimum section properties shall be as follows:

Nominal Size S (in.)	Corrugated Polyethylene		
	Effective Pipe Wall Area A_{eff} (in. ² /in.)	Wall N.A. to Inside Face y_c (in.)	Moment of Inertia I (in. ⁴ /in.)
12	0.162	0.440	0.0311
15	0.212	0.531	0.0532
18	0.208	0.564	0.0740
24	0.231	0.703	0.1304
30	0.238	0.873	0.2705
36	0.291	1.048	0.3121
42	0.328	1.129	0.5430
48	0.320	1.229	0.5430

1047.3.2 The pipe shall not be perforated unless specified otherwise.

1047.3.3 Field joints shall provide circumferential and longitudinal strength to maintain the pipe alignment, prevent separation of pipe and prevent infiltration of fill material. Coupling bands, if used, shall be of the same base material as the pipe. Corrugations in the bands shall have the same configuration as the corrugations in the pipe ends being connected. Prior to use, the design of coupling bands and fastening devices shall be submitted to and approved by Construction and Materials. Final acceptance of coupling bands and fastening devices will be based on field performance.

1047.3.4 The manufacturer shall provide to the engineer an itemized statement of the sizes, section properties and lengths of pipe in each shipment.

1047.3.5 Each individual section of pipe shall be marked in accordance with AASHTO M 294 or AASHTO MP 20.

1047.3.6 Pipe may be fabricated using English units of measurement. Pipe fabricated using English measurements shall meet the diameter dimensions shown on the plans. Pipe tolerances will be in accordance with AASHTO M 294 or AASHTO MP 20 .

1047.4 Sampling, Testing and Acceptance Procedures. All manufacturers furnishing pipe meeting the requirements of AASHTO M 294, for MoDOT projects shall be qualified as described herein. All manufacturers furnishing pipe meeting the requirements of AASHTO MP 20 for MoDOT projects shall meet the quality control and assurance requirements of the appendix section in MP 20 and these specifications. All pipe will be subject to inspection by the engineer at the source of manufacture, at an intermediate shipping terminal or at destination. The engineer shall be allowed unlimited access to all facilities and records as required to conduct inspection and sampling in accordance with [Sec 106](#).

1047.4.1 Application for Placement on Qualified List. To become qualified to furnish pipe meeting AASHTO M 294, a written request shall be sent by the manufacturer to Construction and Materials, and shall include the following information:

(a) A copy of the manufacturer's current National Product Evaluation Program (NTPEP) certification.

(b) The pipe manufacturer's certified analysis certificate setting forth the name or brand of pipe to be furnished, the specified type, category, grade and class of polyethylene compounds. The certificate shall be sworn for the manufacturer by a person having legal authority to bind the company. The certificate shall have attached a certified test report from an approved independent testing laboratory showing specific results of tests performed on each diameter pipe to be furnished, conforming to all requirements of these specifications. Pipes shall be randomly selected for test by the independent testing laboratory and shall be representative of that manufacturer's pipe.

(c) A guarantee that all pipe furnished shall be in accordance with the specification requirements, shall bear a suitable identification brand or mark and shall be replaced without cost to the Commission when not in accordance with the specified requirements. The guarantee shall be worded such that the guarantee will remain in effect as long as the manufacturer continues to furnish material. The manufacturer shall conduct tests and measurements as necessary to ensure the material produced complies with all specification requirements. These tests and measurements shall be identified by the identification symbols or code used on the pipe in a manner that will permit the manufacturer to produce specific reports showing test results representative of specific lots of polyethylene pipe. Copies of reports of these tests shall be kept on file and shall be submitted to the engineer upon request. The brand shall be removed or obliterated by the manufacturer on all material where control tests, as outlined herein, are not in accordance with this specification.

(d) Units of measurement, English or metric, used to fabricate the pipe.

1047.4.2 Maintaining Qualification. To maintain qualification to furnish pipe meeting AASHTO M 294 , the manufacturer shall perform and maintain a quality control program in accordance with the NTPEP Certification Program. The manufacturer's NTPEP certification shall be maintained. The manufacturer shall maintain for three years a record of all test results, inspections and the bill of lading for each shipment of material used in the production of pipe and for each shipment of pipe. The manufacturer shall notify Construction and Materials at least 24 hours prior to each shipment of pipe to a MoDOT project. Additional pipe may be considered part of the original shipment when the ordered quantity was underestimated or material was lost or damaged. A bill of lading in accordance with [Sec 1047.6](#) shall be provided for each shipment of pipe.

1047.4.3 Disqualification of a Manufacturer. A manufacturer may be disqualified to provide pipe for use on MoDOT projects based on the discretion of Construction and Materials, for reasons including, but not limited to, not maintaining NTPEP certification, failure of material to consistently meet specifications, falsification of documentation, misbranding of pipe, unsatisfactory performance in the field or for other reasons indicating lack of consistent material quality.

1047.4.3.1 In the case where a manufacturer loses NTPEP certification and was not disqualified for any other reason, reinstatement will be considered when the manufacturer is recertified by NTPEP.

1047.4.3.2 A manufacturer will not be considered for reinstatement until after one year from the date of removal for falsification of documents.

1047.4.3.3 Three notices of failure to meet specification requirements within a 12-month period will be cause for disqualification of the manufacturer for one year, effective from the date of the third notice.

1047.4.3.4 A manufacturer disqualified within one year of the end of a disqualification may be subject to permanent removal, with no application for reinstatement accepted for a period of three years.

1047.4.4 Reinstatement of a Manufacturer. Consideration of reinstatement of a manufacturer once disqualified will be no sooner than specified in [Sec 1047.4.3](#), will require a written document from the manufacturer stating the reasons for disqualification and the action taken to correct those deficiencies, written concurrence from Construction and Materials that the problem has been suitably addressed, followed by a new application in accordance with [Sec 1047.4.1](#).

1047.4.5 Sampling of Material. Random sampling of the pipe will be conducted by the engineer to verify pipe and material is in accordance with this specification. Samples of polyethylene pipe will be obtained from fabricated culvert sections in accordance with AASHTO M 294 or AASHTO MP 20 at a frequency determined by the engineer.

1047.4.6 Inspection. Inspection will include an examination of the pipe for markings, deficiency in specified diameter, net length of fabricated pipe and evidence of poor workmanship. The inspection may include taking samples.

1047.4.7 Testing. Specimen testing size and method of tests shall be in accordance with AASHTO M 294 or AASHTO MP 20. The contractor or manufacturer shall provide the equipment and personnel to cut a sample from a section of pipe. The sample shall include the markings or a record of the markings for that section of pipe.

1047.4.8 Unacceptable Material.

1047.4.8.1 Any individual section of pipe failing to meet the marking, diameter, length or workmanship requirements of these specifications will be unacceptable. If 10 percent of the pipe in any lot fails to meet these requirements, the entire shipment of that pipe diameter may be rejected.

1047.4.8.2 If a test specimen taken in accordance with [Sec 1047.4.7](#) fails to be in accordance with AASHTO M 294 or AASHTO MP 20, the pipe sampled will be rejected, and the lot will be resampled. A resample will be from the same diameter of pipe as the original sample. The resample shall be in accordance to these specifications or the entire shipment will be rejected.

1047.5 MoDOT Identification Number. When the manufacturer contacts the engineer in accordance with [Sec 1047.4.2](#), the engineer will assign a specific MoDOT identification number for each size of pipe in the shipment.

1047.6 Bill of Lading. A bill of lading or delivery receipt for each shipment of pipe shall be furnished to the engineer at the shipping and destination points. The bill of lading shall contain an itemized statement of the sizes and lengths of pipe, with the corresponding designated MoDOT identification number provided to the manufacturer for each size of pipe for that shipment. The bill of lading shall contain a certified statement. The certified statement shall be signed by an authorized representative of the manufacturer and shall state the following:

“This certifies that the pipe and bands in this shipment are in accordance with MoDOT specifications, were fabricated at an approved plant and were fabricated from the following brand names:”



**FIELD SECTION 1047 TABLE 1
QUALIFIED FABRICATORS OF CORRUGATED
POLYETHYLENE CULVERT PIPE
(1047CPPE..)**

(*Please note that this list does not include suppliers or yards that do not actually fabricate pipe but may supply pipe from these approved production facilities)

<u>Plant</u>	<u>Fabrication Units</u>	<u>Added</u>
Advanced Drainage Systems, Inc. 100 N.E. 20 th Street Eagle Grove, IA 50533	Metric	(11/04)
Advanced Drainage Systems, Inc. 210 Metro Park Blvd. Ennis, TX 75119	Metric	(11/04)
Advanced Drainage Systems, Inc. 205 Apache Drive Jackson, MS 39272	Metric	(11/04)
Advanced Drainage Systems, Inc. Buck Creek Church Road Livermore, KY 42352	Metric	(11/04)
Advanced Drainage Systems, Inc. 1600 Industrial Drive Mendota, IL 61342	Metric	(11/04)
Advanced Drainage Systems, Inc. PO Box 367 2340 E US Hwy 40 Brazil, IN 47834	Metric	(10/10)
Advanced Drainage Systems, Inc. 400 East High Street London, OH 43140	Metric	(08/12)
Haviland Drainage Products 100 West Main Street Haviland, OH 45851	English and Metric	



**FIELD SECTION 1047 TABLE 1 Cont'd
QUALIFIED FABRICATORS OF CORRUGATED
POLYETHYLENE CULVERT PIPE
(1047CPPE..)**

(*Please note that this list does not include suppliers or yards that do not actually fabricate pipe but may supply pipe from these approved production facilities)

<u>Plant</u>	<u>Fabrication Units</u>	<u>Added</u>
JM Eagle 10807 US 59 Road Wharton, TX 77488	Metric	
JM Eagle 15661 Delano Road Cochran, GA 30601	Metric	(08/12)
Quality Culvert, Inc. 311 Elm Street Athens, AL 35611	English and Metric	
Quality Culverts, Inc. 25726 County Road 561 PO Box 435 Astatula, FL 34705	English and Metric	
Prinsco Inc. 108 West Highway 7 Prinsburg, MN 56281	English	
Prinsco Inc. 111 East Pine Street Chatsworth, IL 60921	English	
Southeast Culvert, Inc. 1094 Bankhead Highway Winder, GA 30680	English and Metric	
Springfield Plastics, Inc. 7300 W. State Route 104 Auburn, IL 62615 (10/11)	English	
Timewell Drainage Products & Services Route 1, Box 5A Timewell, IL 62375	English	

