

SOLICITATION OF BIDS

FOR

**SUPPLIES
AND
MATERIALS**

**PUBLIC WORKS DEPARTMENT
OXFORD, MISSISSIPPI 38655**

**MAYOR
ROBYN TANNEHILL**

**BOARD OF ALDERMEN
RICK ADDY, WARD I
MARK HUELSE, WARD II
JANICE ANTONOW, WARD III
ULYSSES HOWELL, MAYOR PROTEMPORE, WARD IV
PRESTON TAYLOR, WARD V
JASON BAILEY, WARD VI
JOHN MORGAN, ALDERMAN AT LARGE**

**DIRECTOR OF PUBLIC WORKS
BART ROBINSON**

PREPARED BY:

**CITY OF OXFORD
DEPARTMENT OF PUBLIC WORKS
OXFORD, MS 38655**

NOTICE TO BIDDERS

Notice is hereby given that the Mayor and Board of Aldermen for the City of Oxford, Mississippi will receive written sealed bids for the purchase of supplies and materials for the Public Works Dept. until the hour of **2:00 p.m., Tuesday, September 11, 2018**, at the City Clerk's office at City Hall, 107 Courthouse Square, Oxford, Mississippi 38655.

Bid documents of all such supplies and materials may be obtained upon request from the Public Works Dept. at City Hall, 107 Courthouse Square, Oxford, MS. Bids should be submitted on the forms provided and prices quoted should be binding for the period from October 1, 2018 through September 30, 2019. Bids must be in a sealed envelope and plainly marked. Contracts for purchase will be made from the lowest and/or best bids submitted.

The Mayor and Board of Aldermen reserve the right to reject any/or all bids, and accept or reject any part of a bid.

City of Oxford, Mississippi

s/s Robyn Tannehill, Mayor
s/s Ashley Atkinson, City Clerk

Publish: August 9, 2018 and August 16, 2018

Furnish Proof of Publication / City of Oxford

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INSTRUCTIONS TO BIDDERS

Preparation of Proposal: Only proposals submitted on the appropriate letterhead or Bid Proposal form will be considered. Each proposal shall be legibly written, printed in ink or typed. In case of conflict, words shall govern over figures. Proposals shall clearly indicate the name or names of those persons or firms submitting such proposal and the failure to sign a proposal will disqualify the same.

ALL proposals shall be submitted and addressed to:

City of Oxford
Attn: Ashley Atkinson
107 Courthouse Square
Oxford, Mississippi 38655

The outside of the envelope shall be clearly identified as **SEALED BID** and marked **BID FOR SUPPLIES AND MATERIALS FOR THE PUBLIC WORKS DEPARTMENT**, along with the bidder's name and address.

Rejection of Proposal: Proposals may be rejected in the case of any omission, alteration of forms, additions, or conditions not called for, unauthorized alternate bids, incomplete bids, erasures or irregularities of any kind.

Acceptance and/or Rejection of Bids: Proposals will be compared on the basis of Total Base Bid or Line Item Bid, as is appropriate. The City will consider factors such as delivery time, past performance of the bidder in doing business with the City.

The City reserves the right to reject any and all bids and to waive minor irregularities and technicalities, which do not detract from the best interests of the City.

General Information: Bidders shall inform themselves with all pertinent city regulations and ordinances, state and federal laws, licenses and tax liability, which may in any manner, affect their bids and their fulfillment of the contract. Prices quoted shall not increase during the contract period, unless otherwise noted, and any price decrease shall be credited to the City. Price quoted shall include all delivery and shipping costs for receipt of materials and/or services at the delivery point or as noted on the bid form. The quantities specified are NOT necessarily actual quantities proposed for immediate purchase, but are simply estimated, based on prior annual purchases by the city. Unit prices are requested for all items listed; even though a zero (0) quantity may show that there have been no recent purchases.

BID FORM

To: Mayor and Board of Aldermen
City of Oxford
Oxford, Mississippi 38655

From: _____
(Name)

(Address)

In accordance with the published Bid Notice, the undersigned does hereby agree to furnish materials, supplies, and services to the City of Oxford, Mississippi, for the prices as shown on the attached listing. Unless otherwise specified, prices will be F.O.B. Oxford.

Prices submitted will be good and valid from **October 1, 2018 through September 30, 2019.**

Acceptance by the Mayor and Board of Aldermen shall be sufficient to constitute a valid contract.

This, the _____ day of _____, 20 _____.

By: _____
(Bidder)

(Title)

To: Equipment/Services/ Material Suppliers

From: City of Oxford, Public Works Department

Re: Twelve Month Bids

The City of Oxford, Mississippi, will be receiving bids until **2:00 p.m., Tuesday, September 11, 2018** at which time bids will be publicly opened at City Hall for various materials and services which include the following:

<u>ITEM NO.</u>	<u>DESCRIPTION</u>
I	Water & Wastewater Treatment Chemicals
II	Water Supplies
III	Sewer Pipe
IV	Manholes & Supplies
V	Aggregate Materials
VI	Materials Hauling
VII	Asphalt
VIII	Cold Milling
IX	Concrete Materials
X	Drainage Pipe and Supplies
XI	Stone Rip Rap
XII	Finished Traffic Signs
XIII	Street Sign Post & Miscellaneous Materials
XIV	Heat Fused Durable Retroreflective Performed Pavement Marking
XV	Painted Traffic Markings
XVI	Erosion Control
XVII	Misc. Construction

I

WATER & WASTEWATER TREATMENT CHEMICAL

All water treatment chemicals shall be in accordance with American Waterworks Association Standards (AWWA) and meet the requirements of chemicals for contact with potable water as set forth by the United States Environmental Protection Agency (USEPA). Prices to include delivery to the City of Oxford Water & Wastewater Treatment Plant. Bid Prices to be effective from **October 1, 2018 through September 30, 2019.**

Bidder: _____

Address: _____

Phone #: _____

Privilege License #: _____

Item No.	Item Description	Proposed Quantity	Item Unit	Unit Price	Total Price
1.	150 lb. Chlorine Gas Cylinders & 1 Ton Chlorine Gas Cylinders	30 12	Ea. Ea.		
2.	Sodium Fluoride	20,000	LBS.		
3.	1 Ton Sulfur Dioxide Gas Cylinder	12	Ea.		
4.	Sulfur Dioxide Gas 150 lb. Cylinders	4	Ea.		
5.	Hydrated Lime	100,000	LBS.		
6.	Aqua-Mag	1,300	Gal.		
7.	Hydrofluorosilicic Acid	15	Gal./lb		

The quantities specified are **NOT** proposed for immediate purchase, but are estimated quantities used to establish unit prices for purchase by the City of Oxford, Mississippi, for a twelve (12) month term.

II WATER SUPPLIES

All fittings shall be in accordance with American Waterworks Association Standards (AWWA). All Brass shall meet no lead requirements. Prices to include delivery to the City of Oxford Water Department. Bid Prices to be effective from **October 1, 2018 through September 30, 2019.**

Bidder: _____

Address: _____

Phone #: _____

Privilege License: _____

Item No.	Item Description	Proposed Quantity	Item Unit	Unit Price	Total Price
	METERS				
1. a.	Bottom Load Multi-Jet Master Meter 5/8" x 3/4" (U.S. Gallons)	200	Ea.		
b.	Bottom Load Multi-Jet Master Meter 1" (US Gallons)	100	Ea.		
c.	Bottom Load Multi-Jet Water Meter 1-1/2", (US Gallons)	40	Ea.		
d.	Bottom Load Multi-Jet Water Meter 2", (US Gallons)	40	Ea.		
e.	5/8" x 3/4" Mastermeter Water Meter Dialog 3G-DS	400	Ea.		
f.	1" Mastermeter Water Meter With Transceiver, Dialog 3G-DS	75	Ea.		
g.	1 1/2" Mastermeter Water Meter With Transceiver, Dialog 3G-DS	10	Ea.		
h.	2" Mastermeter Water Meter With Transceiver, Dialog 3G-DS	40	Ea.		
i.	3" Octave Master Meter	5	Ea.		
j.	4" Octave Master Meter	5	Ea.		
k.	6" Octave Master Meter	5	Ea.		
l.	8" Octave Master Meter	2	Ea.		

<i>Item No.</i>	<i>Item Description</i>	<i>Proposed Quantity</i>	<i>Item Unit</i>	<i>Unit Price</i>	<i>Total Price</i>
	CORPORATION STOPS				
2. a.	Ford Corporation Stop – 3/4” FB 1000-3G – All Grip Compression	150	Ea.		
b.	Ford Corporation Stop – 1” FB 1000 4G – All Grip Compression	100	Ea.		
c.	Ford Corporation Stops IP - IP– 1 ½” Ball Valve FB 500-6	50	Ea.		
d.	Ford Corporation Stops IP X IP – 2” Ball Valve FB 500-7	50	Ea.		
	CURB STOPS				
3. a.	Ford Curb Stops – 3/4” B41-233W-OP-G-NL– All Grip Compression X Female IP Thread	200	Ea.		
b.	Ford Curb Stops – IP X IP – ¾” Ball Valve B11-333W	100	Ea.		
c.	Ford Curb Stops – 1” B41-344W-OP-G-NL Ball Valve – All Grip Compression X Female IP Thread	100	Ea.		
d.	Ford Curb Stops- IP X IP- 1” Ball Valve B11-444W	50	Ea.		
e.	Ford Curb Stops IP X IP – 1 1/2” Ball Valve B11-666W	50	Ea.		
f.	Ford Curb Stops – 1 ½” Ball Valve B41-666GW	50	Ea.		
g.	Ford Curb Stops – IP X IP - 2” Ball Valve B11-777W	50	Ea.		
h.	Ford Curb Stops – 2” – B41-777GW Ball Valve – CTS X FIP	50	Ea.		
	METER COUPLINGS				
4. a.	Ford Meter Coupling 3/4"	1000	Ea.		
b.	Ford Meter Coupling 1”	500	Ea.		
c.	Ford Meter Coupling 1-1/2”	60	Ea.		
d.	Ford Meter Coupling 2”	60	Ea.		
e.	Ford Meter Coupling Bushing 1 ½” - BB1M - 66	60	Ea.		
f.	Ford Meter Coupling Bushing 2” – BB1M – 77	60	Ea.		
	ALL BRASS SHALL BE ALL COMPRESSION ALL GRIP STYLE				

Item No.	Item Description	Proposed Quantity	Item Unit	Unit Price	Total Price
5. a.	Ford Male Adapter - 3/4" C84-33G Compression – All Grip	150	Ea.		
b.	Ford Female Adapter – 3/4" C14-33G Compression – All Grip	50	Ea.		
c.	Ford Male Adapter - 1" C84-44G Compression – All Grip	50	Ea.		
d.	Ford Female Adapter - 1" C14-44G Compression – All Grip	50	Ea.		
e.	Ford Male Adapter – 1 1/2" Compression – All Grip C84-66	30	Ea.		
f.	Ford Female Adapter – 1 1/2" Compression – All Grip C14-66G	30	Ea.		
h.	Ford Female Adapter 2" Compression – All Grip C14-77G	50	Ea.		
i.	U-Branch – 14" Spacing – U48-43G, 1" CTS x 3/4" MIP	50	Ea.		
j.	U-Branch – 14" Spacing – U18-44, 1" FIP x 1" MIP	20	Ea.		
g.	Ford male Adapter 2" Compression – All Grip C84-77G	50	Ea.		
	COUPLINGS DRESSER BRAND OR SMITH BLAIR				
6. a.	Galvanized <u>Dresser</u> Coupling – 3/4" Compression Style 65	100	Ea.		
b.	Ford Brass for Copper <u>Dresser</u> Coupling – 3/4" Compression – All Grip G44-33G	100	Ea.		
c.	Galvanized <u>Dresser</u> Coupling – 1" Compression , Style 65	50	Ea.		
d.	1" Ford Brass CTS Coupling – C44-44G	100	Ea.		
e.	Galvanized <u>Dresser</u> Coupling – 1-1/2" Compression, Style 65	50	Ea.		
f.	Ford Brass for Copper <u>Dresser</u> Coupling – 1-1/2" Compression – All Grip C44-66G	50	Ea.		
g.	Galvanized <u>Dresser</u> Coupling – 2" Compression, Style 65	50	Ea.		
h.	Ford Brass for Copper <u>Dresser</u> Coupling – 2" Compression – All Grip C44-77G	50	Ea.		
	SERVICE SADDLES (Saddles shall be double strap brass) Ford on all saddles				

Item No.	Item Description	Proposed Quantity	Item Unit	Unit Price	Total Price
7. a.	4" X 3/4" Double Strap Saddle, CC Thread Style 202B	10	Ea.		
b.	4" X 1" Double Strap Saddle, CC Thread	10	Ea.		
c.	4" X 1-1/2" Double Strap Saddle , IP Thread	10	Ea.		
d.	4" X 2" Double Strap Saddle , IP Thread	10	Ea.		
e.	6" X 3/4" Double Strap Saddle , CC Thread	10	Ea.		
f.	6" X 1" Double Strap Saddle , CC Thread	10	Ea.		
g.	6" X 1-1/2" Double Strap Saddle , IP Thread	10	Ea.		
h.	6" X 2" Double Strap Saddle , IP Thread	10	Ea.		
i.	8" X 3/4" Double Strap Saddle , CC Thread	20	Ea.		
j.	8" X 1" Double Strap Saddle , CC Thread	20	Ea.		
k.	8" X 1-1/2" Double Strap Saddle , IP Thread	20	Ea.		
l.	8" X 2" Double Strap Saddle , IP Thread	25	Ea.		
m.	10" X 1 1/2" Double Strap Saddle , IP Thread	10	Ea.		
n.	10" X 2" Double Strap Saddle , IP Thread	10	Ea.		
o.	12" X 1 1/2" Double Strap Saddle , IP Thread	10	Ea.		
p.	12" X 2" Double Strap Saddle , IP Thread	10	Ea.		
	COUPLINGS				
8. a.	Steel Bolted Coupling–2" X 12" Long, PVC	20	Ea.		
b.	Steel Bolted Coupling–3" X 12" Long, PVC	20	Ea.		
c.	Steel Bolted Coupling – 4" X 12" Long PVC DR 21	20	Ea.		
d.	Steel bolted Coupling – 6" X 12" Long PVC DR 21	20	Ea.		
e.	Steel Bolted Coupling – 8" X 12" Long PVC DR 21	20	Ea.		
f.	Steel Bolted Coupling – 10" X 12" Long PVC DR 21	20	Ea.		
g.	Steel Bolted Coupling – 12" X 12" Long PVC DR 21	20	Ea.		
	FULL CIRCLE CLAMPS <u>Ford Only</u> (For use with Ductile Iron Pipe)				
9. a.	Full Circle Clamp – All Stainless – 2" X 12" Long	15	Ea.		
b.	Full Circle Clamp – All Stainless – 4" X 12" Long	15	Ea.		
c.	Full Circle Clamp – All Stainless – 6" X 12" Long	20	Ea.		
d.	Full Circle Clamp – All Stainless – 8" X 12" Long	15	Ea.		

Item No.	Item Description	Proposed Quantity	Item Unit	Unit Price	Total Price
e.	Full Circle Clamp – All Stainless – 10” X 12” Long	15	Ea.		
f.	Full Circle Clamp – All Stainless – 12” X 12” Long	10	Ea.		
g.	Full Circle Clamp – All Stainless – 16” X 12” Long	2	Ea.		
.	SOLID SLEEVES				
10. a.	Solid Sleeve – 4” (4”X12” Long with M J Accessories)	20	Ea.		
b.	Solid Sleeve – 6” (6”X12” Long with Accessories)	20	Ea.		
c.	Solid Sleeve – 8” (8”X12” Long with Accessories)	20	Ea.		
d.	Solid Sleeve – 10” (10”X12” with Accessories)	20	Ea.		
e.	Solid Sleeve – 12” (12”X12” with Accessories)	20	Ea.		
f.	Solid Sleeve – 16” (16” X 12” with Accessories)	2	Ea.		
	DUCTILE IRON FITTINGS				
11. a.	Ductile Iron 90° with Accessories – 3”	12	Ea.		
b.	Ductile Iron 90° with Accessories – 4”	12	Ea.		
c.	Ductile Iron 90° with Accessories – 6”	12	Ea.		
d.	Ductile Iron 90° with Accessories – 8”	12	Ea.		
e.	Ductile Iron 90° with Accessories – 10”	8	Ea.		
f.	Ductile Iron 90° with Accessories – 12”	8	Ea.		
g.	Ductile Iron 90° with Accessories – 16”				
h.	Ductile Iron 45° with Accessories – 3”	10	Ea.		
i.	Ductile Iron 45° with Accessories – 4”	10	Ea.		
j.	Ductile Iron 45° with Accessories – 6”	10	Ea.		
k.	Ductile Iron 45° with Accessories – 8”	12	Ea.		
l.	Ductile Iron 45° with Accessories – 10”	10	Ea.		
m.	Ductile Iron 45° with Accessories – 12”	6	Ea.		
n.	Ductile Iron 45° with Accessories – 16”	2	Ea.		
o.	Ductile Iron Tee with Accessories – 3”	6	Ea.		
p.	Ductile Iron Tee with Accessories – 4”	6	Ea.		
q.	Ductile Iron Tee with Accessories – 6”	6	Ea.		
r.	Ductile Iron Tee with Accessories – 8”	6	Ea.		
s.	Ductile Iron Tee with Accessories – 10”	4	Ea.		
t.	Ductile Iron Tee with Accessories – 12”	4	Ea.		
u.	Ductile Iron Tee with Accessories – 16”	2	Ea.		
v.	Ductile Iron Reducer with Accessories – 4” X 3”	6	Ea.		

Item No.	Item Description	Proposed Quantity	Item Unit	Unit Price	Total Price
w.	Ductile Iron Reducer with Accessories – 6” X 4”	6	Ea.		
x.	Ductile Iron Reducer with Accessories – 8” X 4”	6	Ea.		
y.	Ductile Iron Reducer with Accessories – 8” X 6”	6	Ea.		
z.	Ductile Iron Reducer with Accessories – 10” X 8”	6	Ea.		
aa.	Ductile Iron Reducer with Accessories – 12” X 10”	6	Ea.		
bb.	Ductile Iron Cap with Accessories – 4”	6	Ea.		
cc.	Ductile Iron Cap with Accessories – 6”	6	Ea.		
dd.	Ductile Iron Cap with Accessories – 8”	6	Ea.		
ee.	Ductile Iron Cap with Accessories – 10”	6	Ea.		
ff.	Ductile Iron Cap with Accessories – 12”	6	Ea.		
gg.	Ductile Iron Cap with Accessories – 16”	2	Ea.		
hh.	Ductile Iron Plug with Accessories – 4”	6	Ea.		
ii.	Ductile Iron Plug with Accessories – 6”	6	Ea.		
jj.	Ductile Iron Plug with Accessories – 8”	6	Ea.		
kk.	Ductile Iron Plug with Accessories – 10”	6	Ea.		
ll.	Ductile Iron Plug with Accessories – 12”	6	Ea.		
mm.	Ductile Iron Plug with Accessories – 16”	2	Ea.		
	TAPPING AND SLEEVE FORD ONLY				
12.a.	3” Flanged x MJ Gate Valve	6	Ea.		
b.	4” Flanged x MJ Gate Valve	12	Ea.		
c.	6” Flanged x MJ Gate Valve	20	Ea.		
d.	8” Flanged x MJ Gate Valve	20	Ea.		
e.	10” Flanged x MJ Gate Valve	12	Ea.		
f.	12” Flanged x MJ Gate Valve	12	Ea.		
g.	Tapping Sleeve (Stainless Steel with Carbon Flange) - 4” X 4”	12	Ea.		
h.	Tapping Sleeve (Stainless Steel with Carbon Flange) - 6” X 4”	12	Ea.		
i.	Tapping Sleeve (Stainless Steel with Carbon Flange) - 6” X 6”	12	Ea.		
j.	Tapping Sleeve (Stainless Steel with Carbon Flange) - 8” X 4”	12	Ea.		
k.	Tapping Sleeve (Stainless Steel with Carbon Flange) – 8” X 6”	20	Ea.		
l.	Tapping Sleeve (Stainless Steel with Carbon Flange) - 8” X 8”	20	Ea.		
m.	Tapping Sleeve (Stainless Steel with Carbon Flange) - 10” X 4”	6	Ea.		

Item No.	Item Description	Proposed Quantity	Item Unit	Unit Price	Total Price
n.	Tapping Sleeve (Stainless Steel with Carbon Flange) - 10" X 6"	6	Ea.		
o.	Tapping Sleeve (Stainless Steel with Carbon Flange) - 10" X 8"	6	Ea.		
p.	Tapping Sleeve (Stainless Steel with Carbon Flange) - 10" X 10"	6	Ea.		
q.	Tapping Sleeve (Stainless Steel with Carbon Flange) - 12" X 4"	6	Ea.		
r.	Tapping Sleeve (Stainless Steel with Carbon Flange) - 12" X 6"	6	Ea.		
s.	Tapping Sleeve (Stainless Steel with Carbon Flange) 12" X 8"	10	Ea.		
t.	Tapping Sleeve (Stainless Steel with Carbon Flange) 12" X 10"	6	Ea.		
u.	Tapping Sleeve (Stainless Steel with Carbon Flange) 12" X 12"	6	Ea.		
	Miscellaneous Water Department Supplies All Gate Valves to be Domestic				
13. a.	Cast Iron Meter Box – 19 ½" Long X 10 ½" Wide X 10" Deep	250	Ea.		
b.	Cast Iron Meter Box – 24" Long X 13 ¾" Wide X 13" Deep	100	Ea.		
c.	Gate Valves – Class 50 Mechanical Joint with Accessories – 3"	6	Ea.		
d.	Gate Valves – Class 50 Mechanical Joint with Accessories – 4"	10	Ea.		
e.	Gate Valves – Class 50 Mechanical Joint with Accessories – 6"	10	Ea.		
f.	Gate Valves – Class 50 Mechanical Joint with Accessories – 8"	10	Ea.		
g.	Gate Valves – Class 50 Mechanical Joint with Accessories – 10"	10	Ea.		
h.	Gate Valves – Class 50 Mechanical Joint with Accessories – 12"	6	Ea.		
i.	Gate Valves – Class 50 Mechanical Joint With Accessories – 16"	2	Ea.		
j.	Class 350 Slip Joint Ductile Iron Pipe – 3"	200	L.F.		
k.	Class 350 Slip Joint Ductile Iron Pipe – 4"	300	L.F.		
l.	Class 350 Slip Joint Ductile Iron Pipe – 6"	600	L.F.		
m.	Class 350 Slip Joint Ductile Iron Pipe – 8"	600	L.F.		
n.	Class 350 Slip Joint Ductile Iron Pipe – 10"	600	L.F.		
o.	Class 350 Slip Joint Ductile Iron Pipe – 12"	400	L.F.		
p.	C-900 Class 200 DR 21; PVC Water Pipe 2"	500	L.F.		
q.	C-900 Class 200; DR 14; PVC Water Pipe	100	L.F.		

	4"				
Item No.	Item Description	Proposed Quantity	Item Unit	Unit Price	Total Price
r.	C- 900 Class 200; DR 14; PVC Water Pipe-6"	100	L.F.		
s.	C- 900 Class 200; DR 14; PVC Water Pipe-8"	100	L.F.		
t.	C- 900 Class 200; DR 14; PVC Water Pipe-10"	100	L.F.		
u.	C- 900 Class 200; DR 14; PVC Water Pipe-12"	100	L.F.		
v.	Mega Lug or All Grip-3"	10	Ea.		
w.	Restraining Glands – Mega Lug or All Grip-4"	40	Ea.		
x.	Restraining Glands – Mega Lug or All Grip-6"	40	Ea.		
y.	Restraining Glands – Mega Lug or All Grip-8"	40	Ea.		
z.	Restraining Glands – Mega Lug or All Grip-10"	20	Ea.		
aa.	Restraining Glands, Mega Lug or All Grip 12"	20	Ea.		
bb.	Restraining Gland Mega Lug or All Grip 16"	2	Ea.		
cc.	M&H OR MUELLER/CROW – 3 Way Fire Hydrant Painted Safety Yellow by manufacturer 5 ¼" – 200 psi Working Pressure – 400 psi Hydrostatic Pressure – with Mechanical Joint Accessories - 3' Bury - Style 129	8	Ea.		
dd.	M&H – 3 Way Fire Hydrant Painted Safety Yellow by manufacturer 5 ¼" – 200 psi Working Pressure – 400 psi Hydrostatic Pressure – with Mechanical Joint Accessories - 4' Bury	6	Ea.		
ee.	M&H – 3 Way Fire Hydrant – Painted Safety Yellow by manufacturer 5 ¼" – 200 psi Working Pressure – 400 psi Hydrostatic Pressure – with Mechanical Joint Accessories -5' Bury	6	Ea.		
	INSTA – VALVE SYSTEM				
14. a.	4" Insta-Valve	10	Ea.		
b.	6" Insta-Valve	10	Ea.		

The quantities noted are NOT proposed to be purchased immediately, but are estimated quantities, used to establish unit prices for purchase by the City of Oxford, Mississippi, for a twelve (12) month term.

G:\Public Works\Engineering Projects\Material Bids\2018-2019 Material Bids

III SEWER PIPE

All PVC sewer pipe shall be in accordance with ASTM D3034 type PSM Polyvinyl Chloride (PVC) Sewer pipe and fittings for minimum wall thickness meeting SDR 26 dimensions. PVC pipe for force mains shall conform to Commercial Standard CS-256-63 for Type 1120 material made to SDR 21 dimensions. Prices to include delivery to the City of Oxford, Mississippi, Municipal Center. Bid Prices to be made effective from **October 1, 2018 through September 30, 2019.**

Bidder: _____

Address: _____

Phone #: _____

Privilege License #: _____

Item No.	Item Description	Proposed Quantity	Item Unit	Unit Price	Total Price
1.	4" SDR 40-PVC	500	L.F.		
2.	4" SDR 21-PVC	200	L.F.		
3.	6" SDR 21-PVC	500	L.F.		
4.	8" SDR 21-PVC	500	L.F.		
5.	18" SDR 21-PVC	500	L.F.		
6.	4" SDR 26-PVC	100	L.F.		
7.	6" SDR 26-PVC	1500	L.F.		
8.	8" SDR 26-PVC	3000	L.F.		
9.	10" SDR 26-PVC	1500	L.F.		
10.	12" SDR 26-PVC	500	L.F.		
11.	15" SDR 26-PVC	500	L.F.		
12.	18" SDR 26-PVC	500	L.F.		
	Color TV/ Video				
13.	Minimum Service Charge	1	LS.		
14.	6" to 12" Sewer Lines	1	L.F.		
15.	8" to 12" Sewer Lines	1	L.F.		
16.	15" to 18" Sewer Lines	1	L.F.		
17.	21" to 24" Sewer Lines	1	L.F.		
18.	36" to 54" Storm Drain	1	L.F.		
19.	Mobilization	1	LS.		

Item No.	Item Description Pipe Cleaning	Proposed Quantity	Item Unit	Unit Price	Total Price
1.	6" to 8" Sewer Lines	1	L.S.		
2.	8" to 10" Sewer Lines	1	L.F.		
3.	12" to 15" Sewer Lines	1	L.F.		
4.	18" to 21" Sewer Lines	1	L.F.		
5.	24" and Larger Storm Drain	1	L.F.		
6.	Manhole Cleaning	1	L.S.		
7.	Mobilization	1	L.S.		
8.	Minimum Service Charge	1	L.S.		
Item No.	Item Description Root Cutting	Proposed Quantity	Item Unit	Unit Price	Total Price
1.	6" Sewer Lines	1	L.F.		
2.	8" Sewer Lines	1	L.F.		
3.	10" Sewer Lines	1	L.F.		
4.	12" Sewer Lines	1	L.F.		
	ROOT KILLING				
1.	Root X	1	L.F.		

Item No.	Item Description Sewer Vacuuming	Proposed Quantity	Item Unit	Unit Price	Total Price
1.	Vacuum Truck	1	Hr.		

The quantities specified are NOT proposed for immediate purchase, but are estimated quantities used to establish unit prices for purchase by the City of Oxford, Mississippi, for a twelve (12) month term.

IV MANHOLES & SUPPLIES

All Precast Manholes (ASTMC-478, AASHTO M 199) shall be manufactured in accordance with the 1989 edition of Mississippi Standard Specifications for Road and Bridge Construction, Mississippi department of Transportation. Prices to include delivery to the City of Oxford, Mississippi, Municipal Center. Bid Prices to be effective from **October 1, 2018 through September 30, 2019.**

Bidder: _____

Address: _____

Phone #: _____

Privilege License #: _____

Item No.	Item Description	Proposed Quantity	Item Unit	Unit Price	Total Price
1.	48" Cone	10	Ea.		
2.	48" Flat Top	5	Ea.		
3.	48" Manhole Section	50	L.F.		
4.	48" Manhole Bottom	10	Ea.		
5.	48" X 24" Doghouse (12 o'clock & 6 o'clock position)	5	Ea.		
6.	48" X 24" Doghouse (3 o'clock & 6 o'clock position)	5	Ea.		
7.	4" – Concrete Riser	25	Ea.		
8.	6" – Concrete Riser	25	Ea.		
9.	Vulcan V-1317 Ring and Lid	25	Ea.		
10.	Vulcan – VM7 Mod – Ring and Lid (Traffic Duty)	10	Ea.		
11.	Ramneck (1 ¾" x 42" Strips)	5	Cases		

The quantities specified are NOT proposed for immediate purchase, but are estimated quantities used to establish unit prices for purchase by the City of Oxford, Mississippi, for a twelve (12) month term.

V
AGGREGATE MATERIALS

All aggregate materials shall be in accordance with 1989 edition of Mississippi Standard Specifications for Road and Bridge Construction, Mississippi Department of Transportation. Prices to include delivery to the City of Oxford, Mississippi Municipal Center. Bid Prices to be effective from **October 1, 2018 through September 30, 2019.**

Bidder: _____

Address: _____

Phone #: _____

Privilege License #: _____

Item No.	Item Description	Proposal Quantity	Item Unit	Unit Price	Total Price
1.	Clay Gravel	25	Tons		
2.	Washed Road Gravel	25	Tons		
3.	Crushed Limestone	150	Tons		
4.	Pea Gravel	25	Tons		
5.	#7 Clean Slag	25	Tons		

The quantities specified are NOT proposed for immediate purchase, but are estimated quantities used to establish unit prices for purchase by the City of Oxford, Mississippi, for a twelve (12) month term.

VI MATERIALS HAULING

All materials shall be hauled in accordance with government regulations in effect at the time of the bids. Prices shall include delivery to the City of Oxford, Mississippi Municipal Center. Bid Prices shall run from **October 1, 2018 through September 30, 2019.**

Bidder: _____

Address: _____

Phone#: _____

Item No.	Item Description	Proposal Quantity	Item Unit	Unit Price	Total Price
1.	Tandem Truck With Driver	0	Per/ Hour		

The quantities specified are NOT proposed for immediate purchase, but are estimated quantities used to establish unit prices for purchase by the City of Oxford, Mississippi, for a twelve (12) month term.

VII ASPHALT

All materials shall be in accordance with the 1989 edition of the Mississippi Standard Specifications for Road and Bridge Construction, Mississippi Department of Transportation. The tonnage will be based on each mobilization to a new site. Bids shall run from **October 1, 2018 through September 30, 2019.**

Bidder: _____

Address: _____

Phone #: _____

Privilege License#: _____

ASPHALT IN PLACE

ITEM	DESCRIPTION	PROPOSED QUANTITY	UNIT		
1	HMA Asphalts Hauled and Placed on City Streets	1-250	Ton		
2	HMA Asphalts Hauled and Placed on City Streets	250-500	ton		
3	HMA Asphalts Hauled and Placed on City Streets	501-750	Ton		
4	HMA Asphalts Hauled and Placed on City Streets	750 & UP	Ton		
5	Tack Coat (Rate of .05-.10 gallons per sq. yd.)		Sq. Yd.		
6	Grading or Shaping		Sq. Yd.		
NOTE: Asphalts will be purchased from State Contract or F.O.B. price, whichever is lower at time of purchase					

Notes:

HMA Asphalts will be purchased from State Contract or F.O.B. price, whichever is lower in price at time of purchase. Contractor shall coordinate for striping for centerline with the winning bidder of stripe. Centerline Paint/Tape to be placed same day as paving.

The quantities specified are NOT actual quantities proposed for immediate purchase, but are simply estimated quantities used to establish unit prices for purchases by the City of Oxford, Mississippi, for the twelve (12) month term

VIII COLD MILLING

This work consists of partial removal of base and/or pavement materials on the roadway by cold milling, loading, hauling, and disposal of the milled material. The work shall be in accordance with Section 406 B COLD Milling of the 1990 Edition of the Mississippi State Highway Department's Mississippi Standard Specifications for Road and Bridge Construction. Work shall be accomplished at various locations in or near the City of Oxford. Bid Prices shall be effective from **October 1, 2018 through September 30, 2019.**

Bidder: _____
 Address: _____
 Phone #: _____
 Privilege License#: _____

ITEM	DESCRIPTION	PROPOSED	UNIT	UNIT PRICE	TOTAL PRICE
		QUANTITY			
1	Cold Milling of Bituminous Pavement	0-500	TON		
		501-1000	TON		
		1001-1500	TON		
		1501-2000			
		2000 & up			
1	Cold Milling of Concrete Pavement	0-500	TON		
		501-1000	TON		
		1001-1500	TON		
		1501-2000			
		2000 & up			
	One Day Milling	1	Day		

One day milling is intended for use on very small quantity projects (0-500 tons total) when the City has no other milling to be done. Use of this pay item will be agreed upon in advance by both the City of Oxford and the winning bidder.

Contractor shall coordinate for striping for centerline with the winning bidder of stripe. Centerline Paint/Tape to be placed same day as paving.

The quantities specified are NOT proposed for immediate purchase, but are estimated quantities used to establish unit prices for purchase by the City of Oxford, Mississippi, for a twelve (12) month term.

IX CONCRETE MATERIALS

All concrete materials, supplies and installation shall be in accordance with the 1989 Edition of Mississippi Standard Specifications for Road and Bridge Construction, Mississippi Department of Transportation. **Prices to include delivery to the City of Oxford, Mississippi, at various locations except for Items 3, 4, and 5 to be picked up by City of Oxford, Mississippi, trucks.** Bid Prices to be effective from **October 1, 2018 through September 30, 2019.**

Bidder: _____

Address: _____

Phone #: _____

Privilege License #: _____

Item No.	Item Description	Proposal Quantity	Item Unit	Unit Price	Total Price
1. (a)	2,500 PSI	> 5	C.Y.		
(b)	2,500 PSI	< 5	C.Y.		
(c)	Small Load	Truck Charge			
2. (a)	3,000 PSI	> 5	C.Y.		
(b)	3,000 PSI	< 5	C.Y.		
(c)	Small Load *	Truck Charge			
3.	Flowable Fill	500	Ea.		

* For any order under 5 cubic yards, there will be an additional charge of _____ per trip. This does not include an order back to finish a pour, but individual orders less than five (5) cubic yards.

The quantities specified are NOT proposed for immediate purchase, but are estimated quantities used to establish unit prices for purchase by the City of Oxford, Mississippi, for the twelve (12) month term.

X DRAINAGE PIPE AND SUPPLIES

All corrugated HDPE drainage pipe shall have a smooth interior and annular exterior. The manning's "N" coefficient for the smooth interior will have a range of 0.010 to 0.013. 4 through 10-inch pipe shall meet AASHTO M252 and 12 through 60 inch pipe shall meet AASHTO M294. The pipe shall be self coupling with bell and spigot joints meeting AASHTO M252, M294 or ASTM F2306. Gaskets shall be included by the manufacturer and meet ASTM F477. Specifications to be verified as requested. Non compliance will result in loss of bid. Delivery will be made on any quantity ordered within 15 days of receipt of an appropriate purchase order. Prices to include delivery to the City of Oxford, Mississippi, Municipal Center. Bid Prices to be effective from **October 1, 2018 through September 30, 2019.**

Bidder: _____

Address: _____

Phone #: _____

Privilege License #: _____

Item No.	Item Description	Proposed Quantity	Item Unit	Unit Cost	Total Cost
1.	12" HDPE Drainage Pipe	50	L.F.		
2.	15" HDPE Drainage Pipe	100	L.F.		
3.	18" HDPE Drainage Pipe	200	L.F.		
4.	24" HDPE Drainage Pipe	100	L.F.		
5.	30" HDPE Drainage Pipe	50	L.F.		
6.	36" HDPE Drainage Pipe	50	L.F.		
7.	48" HDPE Drainage Pipe	50	L.F.		
8.	12" HDPE Tee Fitting	1	Ea.		
9.	15" HDPE Tee Fitting	1	Ea.		
10.	18" HDPE Tee Fitting	1	Ea.		
11.	24" HDPE Tee Fitting	1	Ea.		
12.	30" HDPE Tee Fitting	1	Ea.		
13.	36" HDPE Tee Fitting	1	Ea.		
14.	48" HDPE Tee Fitting	1	Ea.		

15.	12" HDPE 45 Degree Ell Fitting	1	Ea.		
16.	15" HDPE 45 Degree Ell Fitting	1	Ea.		
17.	18" HDPE 45 Degree Ell Fitting	1	Ea.		
18.	24" HDPE 45 Degree Ell Fitting	1	Ea.		
19.	30" HDPE 45 Degree Ell Fitting	1	Ea.		
20.	36" HDPE 45 Degree Ell Fitting	1	Ea.		
21.	48" HDPE 45 Degree Ell Fitting	1	Ea.		
22.	12" HDPE 90 Degree Fitting	1	Ea.		
23.	15" HDPE 90 Degree Fitting	1	Ea.		
24.	18" HDPE 90 Degree Fitting	1	Ea.		
25.	24" HDPE 90 Degree Fitting	1	Ea.		
26.	30" HDPE 90 Degree Fitting	1	Ea.		
27.	36" HDPE 90 Degree Fitting	1	Ea.		
28.	48" HDPE 90 Degree Fitting	1	Ea.		
29.	12" HDPE 22 ½ Degree Fitting	1	Ea.		
30.	15" HDPE 22 ½ Degree Fitting	1	Ea.		
31.	18" HDPE 22 ½ Degree Fitting	1	Ea.		
32.	12" HDPE Flared End Section	1	Ea.		
33.	15" HDPE Flared End Section	1	Ea.		
34.	18" HDPE Flared End Section	1	Ea.		
35.	24" HDPE Flared End Section	1	Ea.		
36.	30" HDPE Flared End Section	1	Ea.		
37.	48" HDPE Flared End Section	1	Ea.		

38.	24" HDPE 22 ½ Degree Fitting	1	Ea.		
39.	30" HDPE 22 ½ Degree Fitting	1	Ea.		
40.	36" HDPE 22 ½ Degree Fitting	1	Ea.		
41.	48" HDPE 22 ½ Degree Fitting	1	Ea.		
42.	12" HDPE Bands w/Straps for joining HDPE Pipe	1	Ea.		
43.	15" HDPE Bands w/Straps for joining HDPE Pipe	1	Ea.		
44.	18" HDPE Bands w/Straps for joining HDPE Pipe	1	Ea.		
45.	24" HDPE Bands w/Straps for joining HDPE Pipe	1	Ea.		
46.	30" HDPE Bands w/Straps for joining HDPE Pipe	1	Ea.		
47.	36" HDPE Bands w/Straps for joining HDPE Pipe	1	Ea.		
48.	48" HDPE Bands w/Straps for joining HDPE Pipe	1	Ea.		
49.	Cast Iron Grates – V5754 FR-V5759-1 GR Frame and Grate Set 35 7/8" x 17 7/8" x 2 3/4"				
50.	Cast Iron Grates- 5460M-5460Z Grate and Frame Set 29 ¾" x 17 ¾" X 3"				
51.	Cast Iron Grates- V5724-3 24"x 24" x 2 5/8"				
52.	Cast Iron Grates – V5752 18" X 23 ¾"	1	Ea.		

Item No.	Item Description	Proposed Quantity	Item Unit	Unit Cost	Total Cost
53.	Cast Iron Grates – V4230 18” X 30”	1	Ea.		
54.	15” Diameter Round Grate – (Light Duty - For use with HDPE Pipe)	1	Ea.		
55.	18” Diameter Round Grate – (Light Duty - For use with HDPE Pipe)	1	Ea.		
56.	24” Diameter Round Grate – (Light Duty - For use with HDPE Pipe)	1	Ea.		
57.	12” Diameter (Drop-in Cast Iron-Heavy Duty) Round Grate for use with HDPE Pipe	1	Ea.		
58.	15” Diameter Round Grate (Drop-in Cast Iron- Heavy Duty) Round Grate for use with HDPE Pipe	1	Ea.		
59.	18” Diameter Round Grate (Drop-in Cast Iron-Heavy Duty) Round Grate for use with HDPE Pipe	1	Ea.		
60.	24” Diameter Round Grate (Drop-in Cast Iron-Heavy Duty) Round Grate for use with HDPE Pipe	1	Ea.		
61.	30”Diameter Round Grate (Drop-in Cast Iron-Heavy Duty) Round Grate for use with HDPE Pipe	1	Ea.		
62.	V4280 Gutter Inlet 33 ¼” x 21 ¾” x 4”				
63.	V4275 Gutter Inlet 28 ¾” x 21” x 2 9/16”				

The quantities specified are NOT proposed for immediate purchase, but are estimated quantities used to establish unit prices for purchase by the City of Oxford, Mississippi, for the twelve (12) month term.

XI
STONE RIP-RAP

All stone rip-rap shall be in accordance with the 1990 edition of the Mississippi State Highway Department, Mississippi Standard Specifications for Road and Bridge construction. Prices include all costs, including delivery to the City of Oxford's Maintenance facility. Bid Prices to be effective from **October 1, 2018 through September 30, 2019.**

Bidder: _____

Address: _____

Phone #: _____

Privilege License #: _____

Item No.	Item Description	Proposal Quantity	Item Unit	Unit Price	Total Price
1.	100 Pound Stone	100	Tons		
2.	200 Pound Stone	100	Tons		
3.	300 Pound Stone	100	Tons		
4.	Gabion Stone	100	Tons		
5.	6/10 Stone	50	Tons		
6.	Flex-a-Mat		S.F.		

XII FINISHED TRAFFIC SIGNS

All street sign faces, numbers, letters, and related materials shall be in accordance with the latest edition of Manual of Uniform Traffic Control Devices, the 1989 Edition of the Mississippi Standard Specifications for Road and Bridge Construction, Mississippi Department of Transportation, and the City of Oxford, Mississippi, Department of Public Works. Prices include delivery to the City of Oxford, Mississippi, Municipal Center within 15 days after receipt of Purchase Order. Price shall include shipping. Bid Prices to be effective from **October 1, 2018 through September 30, 2019.**

FINISHED ENCAPSULATED LENS REFLECTIVE TRAFFIC SIGNS

Bidder: _____
Address: _____
Phone #: _____
Privilege License: _____

Note: Unit Prices are requested for all items listed even though a zero (0) quantity may show that there have been no recent purchases.

Item No.	Quantity	MUTCD No.	Description	Size	Unit Price
1.	10	R1-1	Stop	24" x 24"	
2.	20	R1-1	Stop	30" x 30"	
3.	5	R1-2	Yield	30" x 30" x 30"	
4.	0	R1-2	Yield	36" x 36" x 36"	
5.	10	R2-1	Speed Limit (Speed Given)	24" x 30"	
6.	5	R2-5A	Reduced Speed Ahead	24" x 30"	
7.	0	R2-5C	Speed Zone ahead	24" x 30"	
8.	5	R3-1	No Right Turn (symbol)	24" x 24"	
9.	3	R3-2	No Left Turn (Symbol)	24" x 24"	
10.	0	R3-4	No U Turn (Symbol)	24" x 24"	

FINISHED ENCAPSULATED LENS REFLECTIVE TRAFFIC SIGNS CONTINUED

Item No.	Quantity	MUTCD No.	Description	Size	Unit Price
11.	2	R3-5L	Left Turn Only	30" x 36"	
12.	2	R3-5R	Right Turn Only	30" x 36"	
13.	0	R3-5S	Straight Only	30" x 36"	
14.	2	R3-7L	Left Lane Must Turn Left	30" x 30"	
15.	2	R3-7R	Right Lane Must Turn Right	30" x 30"	
16.	2	R4-7	Keep Right	24" x 30"	
17.	0	R4-7	Keep Right	30" x 36"	
18.	0	R4-7A	Keep Right (90)	24" x 30"	
19.	0	R4-7B	Keep Right (45)	24" x 30"	
20.	0	R4-8	Keep Left	24" x 30"	
21.	2	R5-1	Do Not Enter	30" x 30"	
22.	2	R5-1A	Wrong Way	36" x 24"	
23.	0	R5-2	No Trucks Symbol	24" x 24"	
24.	5	R6-1L	One Way Left	36" x 12"	
25.	5	R6-1R	One Way Right	36" x 12"	
26.	5	R6-1R/L	One Way (Back & Front)	36" x 12"	
27.	5	R7-2A	No Parking Anytime (Symbol)	12" x 18"	
28.	5	R7-8	Reserved Handicapped (Symbol)	12" x 18"	
29.	0	R10-11A	No Turn On Red	24" x 30"	
30.	2	R11-2	Road Closed	48" x 30"	
31.	2	R11-4	Road Closed to Thru Traffic	60" x 30"	
32.	2	W9-2r	Merge Right	30" x 30"	
33.	5	W11-2	Pedestrian Symbol	36" x 36"	
34.		White on Green	Street Marker Name Given	9" Blade w/ 6" Letters	

The above listed prices for each type of traffic sign shall be for any quantity or combination of the various types of signs. No discounts (or increases) shall be allowed for large (or small) quantities of individual traffic sign types. The above prices shall be for any quantity or combination of the various signs.

The quantities specified are NOT proposed for immediate purchase, but are estimated quantities used to establish unit prices for purchase by the City of Oxford, Mississippi, for a twelve (12) month term.

XIII
STREET SIGN POSTS AND MISCELLANEOUS MATERIALS

All street sign posts and materials shall be in accordance with the latest edition of the Manual of Uniform Traffic Control Devices and the 1989 Edition of the Mississippi Standard Specifications for Road and Bridge Construction, Mississippi Department of Transportation. Prices include delivery to the City of Oxford, Mississippi, Municipal Center. Price shall include shipping. Bid Prices to be effective from **October 1, 2018 through September 30, 2019.**

Bidder: _____

Address: _____

Phone #: _____

Privilege License #: _____

Item No.	Item Description	Proposal Quantity	Item Unit	Unit Price	Total Price
1.	10' Long 4-Channel Sign (Galvanized)	25	Ea.		
2.	12' Long 4-Channel Sign (Galvanized)	25	Ea.		
3.	5.5" Caps for U-Channel Post for Extruded Street Name Signs	25	Ea.		
4.	5.5" Crosses for Extruded Street Signs	25	Ea.		
5.	Jumbo 12" Cross brackets	25	Ea.		
6.	Jumbo 12" 90 Degree post cap (4-Channel) brackets	25	Ea.		
7.	Jumbo 12" 180 Degrees (u-channel) cap brackets	25	Ea.		

The quantities specified are NOT proposed for immediate purchase, but are estimated quantities used to establish unit prices for purchase by the City of Oxford, Mississippi, for a twelve (12) month term.

XIV
HEAT FUSED DURABLE RETROFLECTIVE
PREFORMED PAVEMENT MARKINGS

All retro reflective preformed pavement markings materials shall be in accordance with the latest edition of the Manual of Uniform Traffic Control Devices and the attached City of Oxford, Mississippi, specifications for Heat Fused Durable Retroreflective Preformed Pavement Markings. Prices include delivery to the City of Oxford, Mississippi, Municipal Center. Bid Prices to be effective from **October 1, 2018 through September 30, 2019.**

Bidder: _____

Address: _____

Phone #: _____

Privilege License #: _____

Item No.	Item Description	Proposed Quantity	Item Unit	Unit Price	Total Price
1.	Thermoplastic Symbols and Legends (90 Mil Thickness)	1	S.F.		
2.	Thermoplastic Line (White or Yellow) (90 Mil Thickness) (Flat Sections) 4" Width	1	L.F.		
	6" Width	1	L.F.		
	8" Width	1	L.F.		
	12" Width	1	L.F.		
	16" Width	1	L.F.		
	24" Width	1	L.F.		
3.	Thermoplastic Line (White or Yellow) (90 mil Thickness) Rolls 4" Width	1	L.F.		
	6" Width	1	L.F.		
	8" Width	1	L.F.		
	12" Width	1	L.F.		
	16" Width	1	L.F.		
	24" Width	1	L.F.		

NOTE: Can be Pre-Mark or approved equal by the City of Oxford.

The quantities specified are NOT proposed for immediate purchase, but are estimated quantities used to establish unit prices for purchase by the City of Oxford, Mississippi, for a twelve (12) month term.

SPECIFICATIONS FOR HEAT FUSED DURABLE RETROREFLECTIVE PREFORMED PAVEMENT MARKINGS

1. DESCRIPTION

This specification is for the furnishing of retroreflective thermoplastic preformed pavement-marking materials that can be adhered to asphalt, concrete and portland cement concrete pavements by means of heat fusion. The applied markings shall be very durable, oil and grease impervious and provide immediate and continuing retroreflectivity.

2. MATERIALS GENERAL

- 2.1** The preformed marking material shall consist of a resilient white and yellow polymer thermoplastic with uniformly distributed glass beads throughout its entire cross section. Other colors for usages of a special nature shall be available as required. Preformed markings shall be available conforming to the current edition of the Manual on Uniform Traffic Control Devices for Streets and Highways as issued by the U.S.A. federal Highway Administration.
- 2.2** The preformed markings shall be fusible to asphalt concrete and portland cement concrete pavements by means of the normal heat of a propane type of torch. Adhesives, primers or sealers shall not be used prior to the preformed markings application on asphalt concrete pavements.
- 2.3** The performed markings shall conform to pavement contours, breaks and faults through the action of traffic at normal pavement temperatures. The markings shall have resealing characteristics and be capable of fusing to itself and previously applied worn hydrocarbon and/or alkyd thermoplastic pavement markings.
- 2.4** The preformed markings shall be capable of applications on new, dense and open graded asphalt concrete wearing courses during the paving operation in accordance with the manufacturer's instructions. After application the markings shall be immediately ready for traffic. The preformed markings shall be suitable for use for one (1) year after the date of receipt when stored in accordance with the manufacturer's recommendations.

- 2.5 The preformed thermoplastic markings shall not be brittle and must be sufficiently cohesive and flexible at temperatures exceeding 50 degrees F for one person to carry without the danger of fracturing the material prior to application.

3. CLASSIFICATION

The markings shall be highly durable retroflective pliant polymer thermoplastic materials designed for transverse, longitudinal, legend and symbol markings subjected to high urban traffic volumes and particularly severe wear conditions such as repeated shear action from crossover or encroachment on typical configurations such as crosswalks, edge lines and lane lines.

4. REQUIREMENTS

- 4.1 **Composition:** The retroflective pliant polymer thermoplastic pavement markings shall consist of homogeneous mixture of high quality polymeric thermoplastic binders, pigments, fillers and glass beads. The thermoplastic material must conform to AASHTO designation M249-79 (86) with exception of the relevant differences due to the material being preformed.
- 4.2 **Glass Beads:** The markings shall contain a minimum of 30% glass spheres which shall conform to AASHTO M247-81 type 1, except that glass spheres shall have a minimum of 70 percent true spheres on each sieve and 80 percent true spheres overall.
- 4.2.1 **Retroreflectivity Retention:** The glass beads must be homogeneously blended throughout the material with a securely bonded protruding exposed layer of beads that provide immediate and continuous retroreflectivity. Curved arrows must be available without protruding glass beads if reversibility is needed.
- 4.2.2 **Retroreflectivity:** The preformed markings shall upon application exhibit uniform adequate nighttime retroreflectivity. At 86 degrees 30 incidence angle and 1 degree 30 divergence angle, the markings shall have average minimum intensities of 350 millicandelas for white and 175 millicandelas for yellow as measured with a Mirolux retroreflectometer.

4.3 Color Characteristics: The thermoplastic material without glass beads shall meet the following:

White: Daylight reflectance at 45 degrees/0 degree of 80% minimum.

Yellow: Daylight reflectance at 45 degree/0 degree of 45% minimum.

The daylight reflectance shall not change significantly when the preformed thermoplastic is properly applied to the roadway surface.

For highway use, the white markings shall contain minimum of 8% by weight of Titanium Dioxide pigment. Yellow color shall reasonably match color chip Number 13538 of Federal Standard number 595 and be lead free.

4.4 Skid Resistance: The surface of the preformed thermoplastic markings shall provide a minimum skid resistance value of 45 BPN when tested according to ASTM: E 303-74.

4.5 Thickness: The width of the supplied material shall have a minimum average thickness of .090 inch (2.3mm). (Expressed as 90 mils.)

4.6 Tensile Strength and Elongation: The preformed thermoplastic film shall have a minimum tensile strength of 150 lbs. Per square inch of cross section, at 90 mil (2.3mm) thickness, when tested according to ASTM-D-638-76 except that a sample 6" by 1" shall be tested at a temperature between 70 degrees F and 80 degrees F using a jaw speed of 10" to 12" per minute. The sample shall have a maximum elongation of 20% at break when tested by this method.

4.7 Flexibility: The preformed thermoplastic marking material shall have flexibility at 50 degrees F such that when a 1" by 6" sample is bent through an arc of 90 degrees at a uniform rate in 10 seconds (9 degrees per second) over a 1" mandrel, no cracking occurs in the test sample. The sample must be conditioned prior to testing at 50 plus/minus 2 degrees F for a minimum of four hours. At least two specimens tested must meet the flexibility requirements at 50 degrees F for a passing result.

4.8 Environmental Resistance: The applied markings shall be resistant to deterioration due to exposure to sunlight, water, oil, diesel fuels, gasoline, pavement oil content, salt, and adverse weather conditions.

- 4.9 Effective Performance Life:** When properly applied, in accordance with manufacturer's instructions, the pavement markings shall be neat and durable. The markings shall remain retroflective and show no fading, lifting, shrinkage, tearing, roll back or other signs of poor adhesion.

5. Packaging

The flexible performed thermoplastic marking materials, for use as transverse or longitudinal markings as well as legends, arrows and symbols shall be available in both rolls and flat form. Roll material shall be available up to 48 inches in width and up to 90 feet in length. Flat material shall be supplied in minimum 3 feet lengths up to 2 feet in width. The material shall be packed in suitable cartons clearly labeled for ease of identifying the contents.

6. Material Replacement Provisions

Any properly applied preformed thermoplastic material that shall smear or soften independent of pavement movement within a period of three (3) years from date of application shall be replaced by the supplier.

7. Installation

- 7.1 Fusion:** The preformed thermoplastic material shall be fusible to the pavement by means of a propane torch recommended by the manufacturer.

8. Technical Services

The supplier shall provide technical services as may be required.

XV
PAINTED TRAFFIC MARKINGS
BID SHEET

The quantities specified are NOT actual quantities proposed for immediate purchase, but are used to establish unit prices. All painted traffic markings shall be in accordance with the Mississippi Standard Specifications for Road and Bridge Construction, 1990 Edition, Section 626, Section 627 and Section 710, and all other applicable sections. Bid Price includes all labor, travel, materials and incidentals necessary for a complete installation at various locations. It is the intent of the City of Oxford to issue purchase orders for the above referenced work in the amount of \$3,000 or greater for each work order. Bid Prices to be effective from **October 1, 2018 through September 30, 2019.**

Bidder: _____
Address: _____
Phone #: _____
Privilege License #: _____

Item No.	Item Description	Proposal Quantity	Item Unit	Unit Price	Total Price
1.	4" Thermoplastic Traffic Stripe (Skip White) (30 mil Thickness)	1	L.F.		
2.	4" Thermoplastic Traffic Stripe (Continuous White) (30 mil Thickness)	1	L.F.		
3.	4" Thermoplastic Edge Stripe (Continuous White) (30 mil Thickness)	1	L.F.		
4.	4" Thermoplastic Traffic Stripe (Skip Yellow) (30 mil Thickness)	1	L.F.		
5.	4" Thermoplastic Traffic Stripe (Continuous Yellow) (30 mil Thickness)	1	L.F.		
6.	4" Thermoplastic Edge Stripe (Continuous Yellow) (30 mil Thickness)	1	L.F.		

**PAINTED TRAFFIC MARKINGS
BID SHEET CONTINUED**

Item No.	Description	Proposal Quantity	Item Unit	Unit Price	Total Price
7.	4" Thermoplastic Detail Stripe (4" Equivalent Length) (White or Yellow) (90 mil Thickness)	1	L.F.		
8.	Thermoplastic Legend (White) (90 mil Thickness)	1	S.F.		
9.	Red-Clear Reflective Raised Markers	1	L.F.		
10.	Two-Way Yellow Reflective Raised Markers	1	L.F.		
11.	Painted Curb Face Fast-Drying Yellow Traffic Zone Paint. Code FDTY. Painted Curb Face	1	L.F.		
12.	Painted Striping Fast-Drying Yellow Traffic Zone Paint. Code FDTY.	200	L.F.		

The quantities specified are NOT proposed for immediate purchase, but are estimated quantities used to establish unit prices for a purchase by the City of Oxford, Mississippi, for a twelve (12) month term.

XVI
EROSION CONTROL
BID SHEET

The quantities specified are NOT actual quantities proposed for immediate purchase, but are used to establish unit prices. All erosion control measures and grassing must meet Mississippi Standard Specifications for Road and Bridge Construction, 1989 Edition. Bid Price includes all labor, travel, materials and incidentals necessary for a complete installation at various locations. It shall be understood that the contractor shall be responsible for "Plant Establishment" as set for the in Section 210 of the Mississippi Standard Specifications for Road and Bridge Construction, 1989 Edition. Bid Prices to be effective from **October 1, 2018 through September 30, 2019.**

Bidder: _____
Address: _____
Phone #: _____
Privilege License #: _____

Item No.	Item Description	Proposal Quantity	Item Unit	Unit Price	Total Price
1.	Temporary Silt Fence	100	L.F.		
2.	Temporary Hay Checks	100	EACH		
3.	Ground Preparation	10	ACRE		
4.	Agricultural Limestone	10	TON		
5.	Commercial Fertilizer (13-13-13)	10	TON		
6.	Bermuda Grass Seeding	10	ACRE		
7.	Winter Grass Seeding	10	ACRE		
8.	Solid Sodding (Common Bermuda)	100	SQUARE YARD		
9.	Bermuda Grassing and Plant Establishment (Shall include ground preparation, fertilizer, grass seed, mulching and establishment of growth)	1	ACRE		
10.	Winter Grassing and Plant Establishment (Shall include ground preparation, fertilizer, grass seed, mulching and establishment of growth)	1	ACRE		

Item No.	Item Description	Proposal Quantity	Item Unit	Unit Price	Total Price
11.	Chemical Weed Treatment MSMA (or equal)	20	Acres		
12.	Chemical Grass Control Round-Up (or equal)	20	Acres		
13.	2 Man Crew (for Sediment Clean-up)	1	HOUR		
14.	Backhoe with Operator (for Sediment Clean-up)	1	HOUR		
15.	Skid Steer with Operator (for Sediment Clean-up)	1	HOUR		
16.	Skid Steer with Sweeper Attachment with Operator (for Sediment Clean-up)	1	HOUR		
17.	Bush Hogging		Acre		
18.	Small Dump Truck or Dump trailer with Driver (for Sediment Clean-up)	1	HOUR		
19.	Flex-a-Mat	1			

The quantities specified are NOT proposed for immediate purchase, but are estimated quantities used to establish unit prices for a purchase by the City of Oxford, Mississippi, for a twelve (12) month term.

XVII
MISC. CONSTRUCTION
BID SHEET

The quantities specified are NOT actual quantities proposed for immediate purchase, but are used to establish unit prices. All miscellaneous construction methods must meet Mississippi Standard Specifications for Road and Bridge Construction, 1989 Edition. Bid Price includes all labor, travel, materials and incidentals necessary for a complete installation at various locations. Bid Prices to be effective from **October 1, 2018 through September 30, 2019.**

Bidder: _____

Address: _____

Phone #: _____

Privilege License #: _____

Item No.	Item Description	Proposal Quantity	Item Unit	Unit Price	Total Price
1.	Concrete Sidewalk	300	Sq. Ft.		
2.	Combination Concrete Curb & Gutter	300	L.F.		
3.	SS – 2 Curb Inlet with Manway	2	Ea.		
4.	SS – 2 Curb Inlet Top	2	Ea.		
5.	SS – 3 Surface Inlet	2	Ea.		