

**BID PROPOSAL
AND
SPECIFICATIONS**

FOR

2024 MIDLAND COUNTY PAVEMENT MAINTENANCE PROJECT

WTC No. 56276

WTC2024-001

COUNTY JUDGE
Terry Johnson

COMMISSIONER PRECINCT 1
Scott Ramsey

COMMISSIONER PRECINCT 2
Jeff Somers

COMMISSIONER PRECINCT 3
Luis Sanchez

COMMISSIONER PRECINCT 4
Dianne Anderson

PUBLIC WORKS DIRECTOR
Andrew Avis



405 SW 1st Street • Andrews, TX 79714 • (432) 523-2181
Texas Registered Engineering Firm F-2746
Texas Registered Surveyor Firm #100792-00

MIDLAND COUNTY, TEXAS

2024 MIDLAND COUNTY PAVEMENT MAINTENANCE PROJECT

MARCH 2024

WTC No. 56276



THE SEAL APPEARING ON THIS
DOCUMENT WAS AUTHORIZED BY
JAMES C. TOMPKINS, P.E. 93839

Date: 3/22/24

James C. Tompkins, P.E., R.P.L.S.



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BID PROPOSAL

Bidder agrees to perform all work for **2024 Midland County Pavement Maintenance Project** described in the Specifications and shown on the Plans, for the following unit prices.

WTC No. 56276

BASE

Item No.	Description	Unit	Estimated Quantity	Bid Unit	Bid Amount
1	Mobilization and demobilization	LS	1	\$	\$
2	Asphalt (AC-20-5TR)	GAL	335,682	\$	\$
3	Coated Aggregate (Grade 4)	CY	8392	\$	\$
4	Coated Aggregate (Grade 4) – County Stockpile	CY	200	\$	\$
5	Striping (Centerline)	LF	273,061	\$	\$
6	Striping (Edge)	LF	349,923	\$	\$
7	Traffic Control	LS	1	\$	\$
8	Striping Tabs	LS	1	\$	\$
TOTAL BASE BID ITEMS:					\$

ALTERNATE

Item No.	Description	Unit	Estimated Quantity	Bid Unit	Bid Amount
1	Edge Patching	SY	3,554	\$	\$
2	Pothole Patching	SY	10,261	\$	\$
TOTAL BASE BID ITEMS:					\$

Schedule table

Item No.	Description	Date/Duration	Unit
1	Expected duration		Days
2	Start Date		Date

**OWNER - MIDLAND COUNTY
ENGINEER - WTC, INC.**

GENERAL NOTES AND MODIFICATIONS AND CLARIFICATIONS TO THE STANDARD

SPECIFICATIONS DESCRIPTION OF WORK

THIS PROJECT INCLUDES THE FOLLOWING MAJOR ITEMS OF WORK:

1. EDGE PATCHING: THIS ITEM SHALL INCLUDE ALL MATERIALS, EQUIPMENT, AND LABOR TO PATCH THE EDGE OF THE EXISTING ROAD AS FOLLOWS: SQUARE AND VERTICAL SAW CUTTING THE DAMAGED EDGE OF PAVEMENT TO PROVIDE A CLEAN LINE (AT LEAST 4-INCHES INTO STABLE ASPHALT AND BASE MATERIAL); REMOVING UNSUITABLE MATERIAL; PROCESSING AND COMPACTING THE SUBBASE; PROVIDING, PLACING, PROCESSING, COMPACTING, AND FINISHING THE BASE MATERIAL; APPLYING TACK COAT/PRIME COAT TO FINISHED BASE MATERIAL; PLACING AND COMPACTING 3-INCHES THICK MINIMUM OF HMAC ELECTRIC HEATED TO 140°F MATERIAL TO MATCH EXISTING PAVEMENT, ENSURE THAT WATER DOES NOT POND ON NEW PATCH. THE FINISHED PATCH AREA SHALL HAVE A CROWN OF 1/8 INCH TO 1/4 INCH. ONCE PAVEMENT EDGE PATCH IS COMPLETE, SHOULDER SHOULD BE "PULLED" AS SPECIFIED IN ROAD MAINTENANCE GUIDANCE DOCUMENT (DECEMBER 2022).
2. POTHOLE REPAIRS: THIS ITEM SHALL INCLUDE ALL MATERIALS, EQUIPMENT, AND LABOR NECESSARY TO REPAIR POTHOLE ALONG VARIOUS ROADWAYS IN MIDLAND COUNTY AS SHOWN ON THE PLANS AS FOLLOWS: SQUARE AND VERTICAL SAWCUTTING AN AREA (SIZE AND LOCATIONS AS SHOWN ON THE PLANS) AND REMOVING UNSUITABLE MATERIAL; PROCESSING AND COMPACTING THE SUBBASE; PROVIDING, PLACING, PROCESSING, COMPACTING, AND FINISHING BASE MATERIAL; APPLY A TACK COAT/PRIME COAT; AND PLACING 3-INCHES THICK MINIMUM OF HMAC ELECTRIC HEATED TO 140°F MATERIAL TO MATCH EXISTING PAVEMENT. ENSURE THAT WATER DOES NOT POND ON NEW PATCH. THE FINISHED PATCH AREA SHALL HAVE A CROWN OF 1/8 INCH TO 1/4 INCH. THIS WORK SHALL BE DONE BEFORE THE SEAL COAT IS PLACED.
3. SEAL COAT: THIS ITEM INCLUDES ALL THE MATERIALS, EQUIPMENT, AND LABOR NECESSARY TO INSTALL A TWO-COURSE SEAL COAT AS SPECIFIED BELOW ON THE FULL WIDTH OF THE REPAIRED ROAD SURFACE.
4. THIN OVERLAY REPAIRS: FOR AREAS WITH MULTIPLE POTHOLE, CONTRACTOR MAY REQUEST TO APPLY A 1/2" THICK OVERLAY (TXDOT ITEM 347) TO THE ENTIRE AREA. PRIOR TO APPLYING THE THIN OVERLAY, ALL POTHOLE DEEPER THAN 3" MUST BE PATCHED IN ACCORDANCE WITH ITEM 2 ABOVE. ADDITIONALLY, ALL POTHOLE SHALLOWER THAN 3" SHALL HAVE HMAC FILLED IN AND BLADED SMOOTH PRIOR TO THE APPLICATION OF THE 1/2" THICK OVERLAY, COVERING THE ENTIRE AREA.
5. MATERIAL FOR USE BY MIDLAND COUNTY ROAD & BRIDGE (COUNTY STOCKPILE): THE CONTRACTOR WILL PROCURE, HAUL, AND STOCKPILE GRADE 4 AGGREGATE AT A LOCATION (OR LOCATIONS) PROVIDED BY MIDLAND COUNTY FOR USE BY THE MIDLAND COUNTY ROAD & BRIDGE DEPARTMENT.

THE ITEMS OF WORK WILL BE COMPLETED ACCORDING TO THE PLANS AND DETAILS, AS WELL AS THE TXDOT STANDARD SPECIFICATIONS, AS MODIFIED/CLARIFIED BELOW.

SPECIFICATIONS

THE WORK SHALL BE CONSTRUCTED UNDER THE GENERAL GUIDELINES AS SET FORTH BY THE TEXAS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATION FOR CONSTRUCTION AND MAINTENANCE OF HIGHWAYS, STREETS, AND BRIDGES, 2014 EDITION. THE OWNER AND ENGINEER RESERVE THE RIGHT TO HAVE FINAL INTERPRETATION AUTHORITY OF SPECIFICATIONS IN THE EVENT THAT A CONFLICT MAY ARISE. HOWEVER, IN THE EVENT THAT CONFLICT/ DISPUTE MAY ARISE, THE CONTRACT DOCUMENTS AND GENERAL NOTES SUPERSEDE THE TXDOT 2014 STANDARD SPECIFICATION.

ITEM 5: CONTROL OF THE WORK

IN THE EVENT A NEW OR REVISED TRAFFIC CONTROL PLAN IS SUBMITTED TO THE ENGINEER FOR CONSIDERATION, PREPARE AND SUBMIT REVISED TRAFFIC CONTROL PLAN A MINIMUM OF 10 DAYS PRIOR TO ANTICIPATED IMPLEMENTATION TO ALLOW FOR REVIEW BY THE ENGINEER AND OWNER. MOST OF THIS PROJECT INVOLVES MAINTENANCE WORK ON EXISTING PAVEMENT SURFACES, HOWEVER, WHERE NEW PAVEMENT IS BEING CONSTRUCTED OR WHERE THE PAVEMENT SURFACE IS BEING WIDENED OR SHOULDERS ARE BEING INSTALLED, ESTABLISH A TRUE AND CORRECT ALIGNMENT WITH A TRANSIT OR BY OTHER APPROVED METHODS. USE METHOD C FOR CONSTRUCTION SURVEYING. IN THE EVENT THE FINISHED SURFACE DOES NOT CONFORM TO THE TYPICAL SECTIONS OR DOES NOT RIDE TO THE SATISFACTION OF THE ENGINEER, REWORK THE UNSATISFACTORY AREA TO THE LIMITS NECESSARY AND PLACE CONSTRUCTION STAKES AT CLOSER INTERVALS AS DIRECTED. PROVIDE THE STAKING, PERSONNEL AND EQUIPMENT NECESSARY TO ATTAIN A SATISFACTORY RIDING SURFACE. IN CURVES AND SUPERELEVATION SECTIONS, PLACE CONSTRUCTION STAKES AT INTERVALS OF 50 FEET ALONG THE CENTERLINE AND AT THE CROWNLIN AND QUARTER POINTS OF THE TYPICAL SECTIONS. IN THE EVENT A SATISFACTORY RIDING SURFACE CANNOT BE CONSTRUCTED, PLACE ADDITIONAL STAKING AS DIRECTED. ADDITIONAL BENCHMARK INFORMATION CAN BE OBTAINED AT THE ENGINEER'S OFFICE.

ITEM 8: PROSECUTION AND PROGRESS

TIME CHARGES FOR THIS PROJECT WILL BE CALENDAR DAYS. THE TIME ESTABLISHED FOR THE COMPLETION OF ALL WORK COVERED BY THIS CONTRACT IS 150 DAYS (5 MONTHS). DAYS WILL BE CHARGED SUNDAY THROUGH SATURDAY, INCLUDING ALL HOLIDAYS, REGARDLESS OF WEATHER CONDITIONS, MATERIAL AVAILABILITY, OR OTHER CONDITIONS NOT UNDER THE CONTROL OF THE CONTRACTOR. SUNDAY WORK WILL BE LIMITED TO ITEMS NOT REQUIRING INSPECTION, QUALITY ASSURANCE TESTING OR OVERSIGHT OF ANY KIND. LIQUIDATED DAMAGES DAILY RATE = \$500/ CALENDAR DAY BEYOND CONTRACT TIME LIMIT.

ITEM 9: MEASUREMENT AND PAYMENT

ALL QUANTITIES OF WORK SHALL BE PAID ON THE BASIS OF THE PLANS QUANTITY MEASUREMENT, PER ITEM 9, UNLESS THE ITEM IS SUBSIDIARY TO ANOTHER ITEM, IN WHICH CASE IT WILL NOT BE PAID FOR DIRECTLY. SPECIFIC EXCEPTIONS TO PLAN QUANTITY ITEMS ARE AS FOLLOWS: ITEM 316 SEAL COAT - AGGREGATE FOR SURFACE TREATMENT; ITEM 316 SEAL COAT - ASPHALTIC CEMENT FOR SURFACE TREATMENT; ITEM 340 DENSE-GRADED HOT-MIX ASPHALT (SMALL QUANTITY). PAYMENT FOR MATERIAL ON HAND WILL BE MADE AS OUTLINED IN ITEM 9 OF THE TXDOT 2014 STANDARD SPECIFICATION.

ITEM 100: PREPARING RIGHT-OF-WAY (R.O.W.)

IT IS THE INTENT ON THE PLANS TO PREPARE ONLY THAT PORTION OF THE RIGHT-OF-WAY NECESSARY FOR CONSTRUCTION. CONTRACTOR IS NOT TO DISTURB ANY AREA BEYOND THE ROW UNLESS IT IS ALLOWED IN WRITING BY THE ENGINEER OR IS A DESIGNATED STAGING AREA. DO NOT DISTURB NATURAL VEGETATION AND TREES WHEREVER POSSIBLE. CONTRACTOR IS TO COMPLETE THE PREPARATION OF THE RIGHT-OF-WAY BASED ON THE CONDITION AT THE TIME OF BIDDING AND ADJUST BID PRICES ACCORDINGLY.

ITEM 204: SPRINKLING

APPLY WATER FOR DUST CONTROL, EARTHWORK, OR BASE CONSTRUCTION. THE SCOPE OF THIS WORK WILL NOT BE PAID FOR DIRECTLY BUT WILL BE CONSIDERED SUBSIDIARY TO THE VARIOUS BID ITEMS.

ITEM 300: ASPHALTS, OILS, AND EMULSIONS

PRIME AND TACK COAT WILL BE MC-30. ASPHALT FOR SEAL COAT WILL BE AC-20-5TR. RATES WILL BE AS SHOWN IN ITEM 316 SURFACE TREATMENTS AND ITEM 340 DENSE-GRADED HOT-MIX ASPHALT (SMALL QUANTITY) AND ITEM 351 FLEXIBLE PAVEMENT STRUCTURE REPAIR. PAVEMENT SHALL BE ADEQUATELY BROOMED PRIOR TO APPLYING ASPHALTS, OILS, OR EMULSION AND SWEEPED AGAIN AFTER 30 CALENDER DAYS, PRIOR TO STRIPING.

ITEM 302: AGGREGATES FOR SURFACE TREATMENTS

THE AGGREGATE WILL BE SAC-B AND GRADE 4 FOR SEAL COAT. COAT AGGREGATE WITH 1.0 PERCENT BY WEIGHT OF RESIDUAL BITUMEN. USE AN UNMODIFIED ASPHALT WITH A MINIMUM PERFORMANCE GRADE OF 64-16 (AS DEFINED IN ITEM 300) OR BETTER FOR AGGREGATE PRECOATING.

ITEM 310: PRIME COAT

PRIME COAT WILL ONLY BE APPLIED WHEN THE AMBIENT TEMPERATURE IS ABOVE 60°F OR WHEN THE AMBIENT TEMPERATURE IS ABOVE 50°F AND RISING.

ITEM 316: SURFACE TREATMENTS

APPLY TWO COURSE SURFACE TREATMENT ON EXISTING PAVEMENT SURFACE. PLACE A STRING LINE OR OTHER SUITABLE MARKINGS WHERE NEEDED TO ASSURE SMOOTH NEAT LINES, OR AS NEEDED. RATES ARE SHOWN BELOW. ASPHALT CEMENT WILL ONLY BE APPLIED BETWEEN MAY 1st AND SEPTEMBER 1st UNLESS APPROVED BY THE ENGINEER. AMBIENT TEMPERATURE FOR APPLICATION OF POLYMER MODIFIED ASPHALTS WILL BE 70°F AND RISING BUT WILL NOT BE APPLIED WHEN THE TEMPERATURE IS 80°F AND FALLING. DO NOT APPLY WHEN THE SURFACE TEMPERATURE IS BELOW 70°F.

GENERAL APPLICATION RATES FOR ASPHALT	
TYPE	APPLICATION RATE
MC-30 (TACK COAT FOR PATCHING)	0.25 GAL/SY
AC-20-5TR (SEAL COAT – EACH COURSE)	0.40 GAL/SY

GENERAL APPLICATION RATES FOR AGGREGATE	
TYPE	APPLICATION RATE
AGGR (TY PB GR 4 SAC-B – EACH COURSE)	1/100 (CY/SY)

THESE RATES SERVE AS GENERAL GUIDELINES AND MAY BE ADJUSTED AT THE DISCRETION OF THE ENGINEER AS CONDITIONS WARRANT.

ITEM 340: DENSE GRADED HOT-MIX ASPHALT (SMALL QUANTITY)

HOT-MIX ASPHALT FOR POTHOLE REPAIRS AND PAVEMENT EDGE REPAIRS TO BE TYPE D IN ACCORDANCE WITH THIS ITEM.

ITEM 347: THIN OVERLAY MIXTURES

THIN OVERLAY MIXTURES SHALL BE APPLIED AS REFERENCED ON TXDOT 2014 STANDARD SPECIFICATION.

ITEM 351: FLEXIBLE PAVEMENT STRUCTURE REPAIR

POTHOLE AND PAVEMENT EDGE REPAIRS TO BE COMPLETED IN ACCORDANCE WITH THIS ITEM.

ITEM 502: BARRICADES, SIGNS, AND TRAFFIC HANDLING

SEE THE TRAFFIC CONTROL AND SEQUENCE OF WORK PLAN FOR ALL REQUIREMENTS FOR ITEM 502 INCLUDING TRAFFIC CONTROL AND SEQUENCE OF WORK PLANS.

ITEM 666: RETROREFLECTORIZED PAVMENT MARKING

ROADS TO BE STRIPED WITH TYPE II TRAFFIC PAINT. STRIPING TO BE PERFORMED AS INDICATED ON PLANS. PRIOR TO APPLYING MARKINGS, SURFACE TREATMENT PAVEMENT SHALL BE ALLOWED TO CURE FOR 30 CALENDER DAYS AND BE SWEEPED FREE OF LOOSE MATERIAL.