

**CITY OF HOUGHTON
INVITATION TO BID**

The City of Houghton, on behalf of the Michigan Department of Transportation, will be receiving sealed bids until 11:30 a.m. (EST) on Monday, July 16, 2018 at the City of Houghton office at which time they will be publically opened and read. The bid is for:

M-26 Culvert Replacement, South Range, Houghton County

All bids shall be marked "July 16, 2018 Bids" on the envelope and must be presented on the provided bid form. Bid packages may be picked up at the City of Houghton office, 616 Shelden Avenue, Houghton, Michigan. The bids are also available on our website: cityofhoughton.com under news and announcements. The office is open from 8-5, Monday thru Friday. The telephone number for the office is 906-482-1700.

The City of Houghton is an equal opportunity provider and employer.

M-26 CULVERT REPLACEMENT SOUTH RANGE

BID PROPOSAL

PAGE 1 of 2

ALL THE WORK HEREIN SPECIFIED WILL BE PAID FOR AS A LUMP SUM.
QUANTITIES ARE PROVIDED FOR INFORMATIONAL PURPOSES ONLY.

NOTE: THIS SHEET MUST BE ATTACHED TO THE COMPLETE BID PROPOSAL IN ORDER
FOR BID TO BE VALID.

| ITEM OF WORK | UNIT QTY |
|---|-------------------|
| MOBILIZATION | LS 1 |
| DR STRUCTURE, REM | EA 1 |
| CULV, REM, 24 INCH TO 48 INCH | EA 2 |
| EXCAVATION, EARTH | CYD 75 |
| EMBANKMENT, LM | CYD 50 |
| EROSION CONTROL, SILT FENCE..... | FT 30 |
| EROSION CONTROL, SAND BAG | EA 20 |
| SUBBASE, CIP | CYD 75 |
| AGGREGATE BASE, 6 INCH | SYD 55 |
| AGGREGATE BASE, 9 INCH | SYD 88 |
| SHOULDER, CL II, 4 INCH | SYD 10 |
| MAINTENANCE GRAVEL, LM | CYD 25 |
| SEWER, CL IV, 24 INCH, TR DET B | FT 68 |
| CULV, SLP END SECT, 1 ON 6, 24 INCH, LONGIT | EA 1 |
| CULV, SLP END SECT, 1 ON 4, 24 INCH, TRANSV | EA 1 |
| DR STRUCTURE, 60 INCH DIA | EA 1 |
| DR STRUCTURE COVER, TYPE B | EA 1 |
| CONCRETE TOP FOR SQUARE DRAINAGE STRUCTURE | EA 1 |
| DR STRUCTURE COVER, TYPE G | EA 1 |
| TRENCH UNDERCUT AND BACKFILL | CYD 28 HMA |
| SURFACE, REM | SYD 136 HMA, LVSP |
| | TON 37 |
| PAVT MRKG, WATERBORNE, 6 INCH, WHITE | FT 40 |
| PAVT MRKG, WATERBORNE, 4 INCH, YELLOW | FT 33 |
| TOPSOIL SURFACE, FURN, 3 INCH | SYD 150 |
| FERTILIZER, CHEMICAL NUTRIENT, CL A | LB 7 |
| SEEDING, MIXTURE THV | LB 7 |

MULCH BLANKETSYD 150
CONTRACTOR STAKING, ROAD ONLYLS 1 M-94
CULVERT REPLACEMENT SOUTH RANGE

BID PROPOSAL

PAGE 2 of 2

THESE ITEMS AND QUANTITIES ARE BEING PROVIDED FOR INFORMATION ONLY. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THESE ITEMS AND QUANTITIES. NO ADDITIONAL COMPENSATION WILL BE PAID FOR INCREASES IN QUANTITIES OR ADDITIONAL INCIDENTAL ITEMS NECESSARY TO PERFORM THE WORK AS DESCRIBED IN THE LOG OF PROJECT. ALL COMPLETED WORK WILL BE PAID FOR AS ONE LUMP SUM.

TOTAL LUMP SUM BID _____

COMPANY NAME: _____

ADDRESS: _____

AUTHORIZED SIGNATURE: _____

DATE: _____

The Michigan Department of Transportation reserves the right to reject any and all bids.

SPECIAL NOTICE

Prior to the award of the contract, the Contractor shall file with the Michigan Department of Transportation's Ishpeming Transportation Service Center located at 100 S. Westwood Drive, Ishpeming, MI 49849:

- General Liability Insurance
- Workman's Compensation Insurance
- Owners Protection Insurance

Insurance: The Contractor will be required to furnish a certificate of insurance showing they have complied with Section 107.10 of the Standard Specifications for Construction. Form 1304A, annexed hereto, shall be used for certifying insurance.

PROGRESS CLAUSE

CS 31012

M-26 CULVERT REPLACEMENT IN SOUTH RANGE, HOUGHTON COUNTY

PROGRESS CLAUSE: Start work no earlier than July 30, 2018 unless otherwise approved by the Engineer. In no case, shall any work be commenced prior to receipt of formal notice of award by the department.

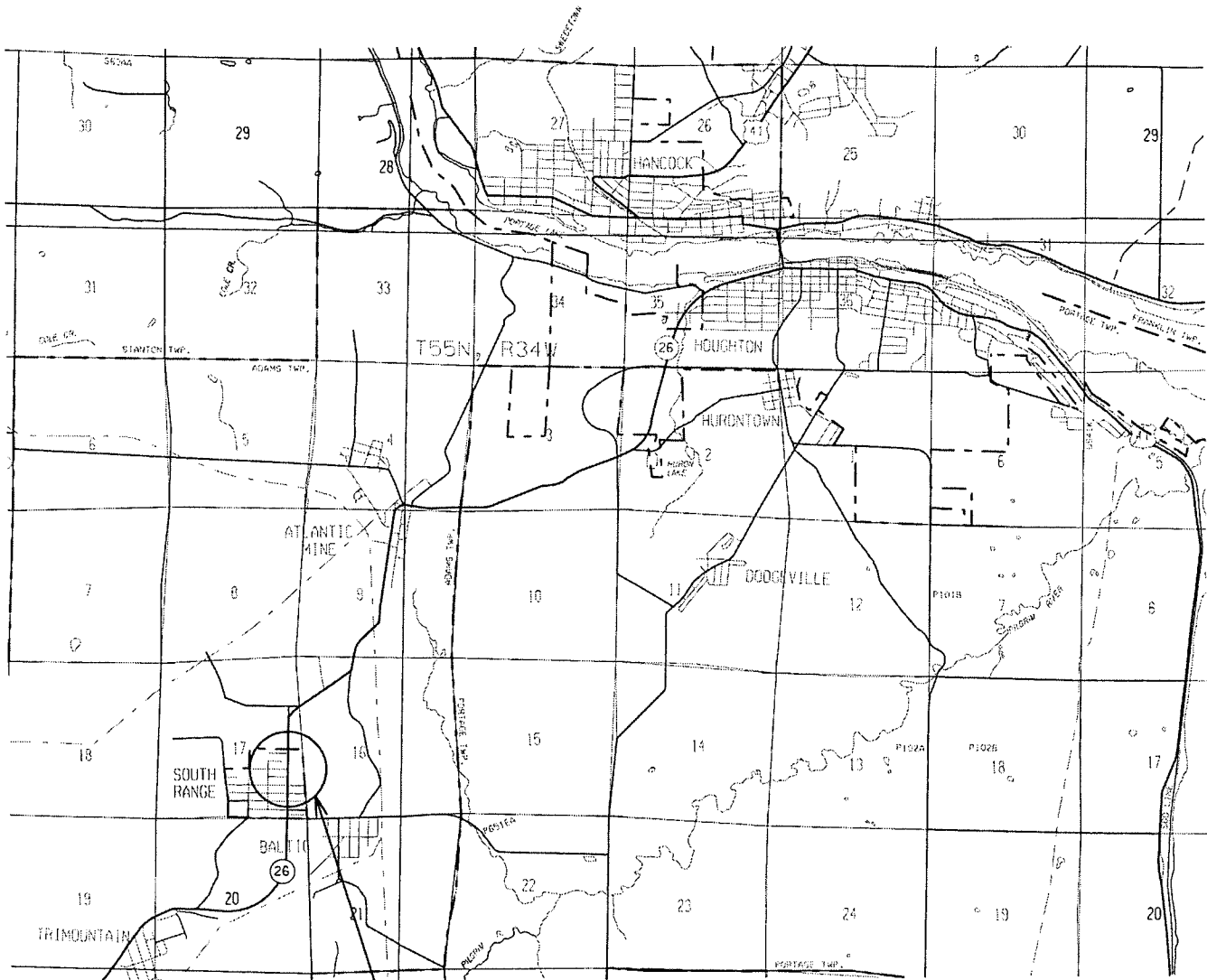
All contract work shall be completed and billed no later than September 14, 2018. Once work commences it shall be continuous until all work is completed. The contract work shall be completed in **7 work days**.

Failure to meet the above mentioned completion date shall result in liquidated damages as described in Section 108.10 of the Standard Specifications for Construction.

Failure on the part of the contractor to carry out the provisions of the Progress Clause, as established, may be considered sufficient cause to prevent bidding future projects until a satisfactory rate of progress is again established.

MICHIGAN DEPARTMENT OF TRANSPORTATION

ROUTE: M-26
 CONTROL SECTION 31012
 TOWN OF SOUTH RANGE
 HOUGHTON COUNTY



PROPOSED WORK LOCATION

THE IMPROVEMENTS COVERED BY THESE PLANS SHALL BE DONE IN ACCORDANCE WITH THE MICHIGAN DEPARTMENT OF TRANSPORTATION 2012 STANDARD SPECIFICATIONS FOR CONSTRUCTION. PHYSICAL ROAD NUMBER (PR#) & MILEPOST (MP) DATA ARE FROM MICHIGAN GEOGRAPHIC FRAMEWORK VERSION # 12.

RECOMMENDED FOR APPROVAL BY:

MILES:
 CONTRACT FOR:
 CULVERT REPLACEMENT

.....

.....
 P.E. - PROJECT MANAGER

.....

.....
 P.E. - CONSTRUCTION ENGINEER



KIRK T. STEUDLE, P.E. - DIRECTOR

DATE: 6/22/18
 DESIGN UNIT: ISHP/EMING
 TSC: ISHP/EMING

M-26 STORM SEWER TITLE

| | |
|---------|-------|
| DRAWING | SHEET |
| | 1 |

LOG OF PROJECT

M-26
CS 31012

MAINTENANCE PROJECT

PROJECT LOCATION

This project consists of excavation and removal of a 24" storm sewer and drainage structure and the placement of a 24" storm sewer and 5' diameter drainage structure as shown on the plans and as directed by the Engineer. Backfilling trench, and HMA paving and shoulder gravel on the shoulders on M-26(CS 31012) at MP 3.302 which is at the intersection of M-26 and 5th Street in South Range.

PROJECT DESCRIPTION

The Contractor shall place erosion control measures, perform traffic control, remove existing drainage structure, remove the existing storm sewer, place 5' diameter drainage structure and cover, place new storm sewer pipe, storm sewer inverts shall be placed at existing elevation. Place the excavated material back in the trench to bottom of subbase unless determined to be unacceptable by the Engineer. Place the subbase, aggregate base, HMA, shoulder, CL II, and perform slope restoration per the attached typical cross sections. The subbase thickness shall match the existing subbase thickness. Place 715 lbs/syd of HMA on the lanes, and 385 lbs/syd on the shoulders as shown on the typical cross sections. Place shoulder gravel as needed after paving.

This project also involves constructing a concrete top for the drainage structure located on the west side of M-26 about 140' south of 5th Street. The structure is about 33' west of centerline. This is a square drainage structure. Construct a concrete top according to MDOT Standard Plan R-4-D, Manhole Base Type 2 on this structure, this work is included in the estimated quantities as Concrete Top for Square Drainage Structure. Use a smaller opening than shown on the standard plan to place a Type G Drainage Structure Cover.

Further details of the proposed work can be found on the attached project plan sheets.

MAINTAINING TRAFFIC

Traffic control will be provided by MDOT. Temporary traffic signals and signing will be setup by MDOT to maintain traffic. The contractor will need to move and/or maintain plastic drums and/or channelizing devices during work operations.

MEASUREMENT AND PAYMENT

All completed work will be paid for as one lump sum. Estimated quantities to complete the work are included in the bid proposal for information only. The contractor is responsible for verifying these items and quantities. No additional payment will be paid for increases in quantities or additional items necessary to perform the work as described in the log of project.

LOG OF PROJECT

M-26
CS 31012
Maintenance Project

GENERAL PLAN NOTES

GENERAL

Mile points are only approximate and exact locations of the work shall be designated by the Engineer prior to Construction.

UNDERGROUND UTILITIES

For protection of underground utilities and in conformance with Public Act 53, 1974, the Contractor shall dial 1-800-482-7171 a minimum of three full working days, excluding Saturdays, Sundays, and holidays prior to beginning each excavation in areas where public utilities have not been previously located. Members will thus be routinely notified. This does not relieve the Contractor of the responsibility of notifying utility owners who may not be a part of the "Miss Dig" alert system.

VEHICLES AND MATERIALS STORAGE

The Contractor shall not park any vehicles nor store any equipment on any Public Recreational Property. Access to Recreational Sites must be maintained at all times.

SPECIFICATIONS FOR CONSTRUCTION

The improvements covered by these plans shall be done in accordance with the MDOT 2012 Standard Specifications for Construction.

SAWCUTS

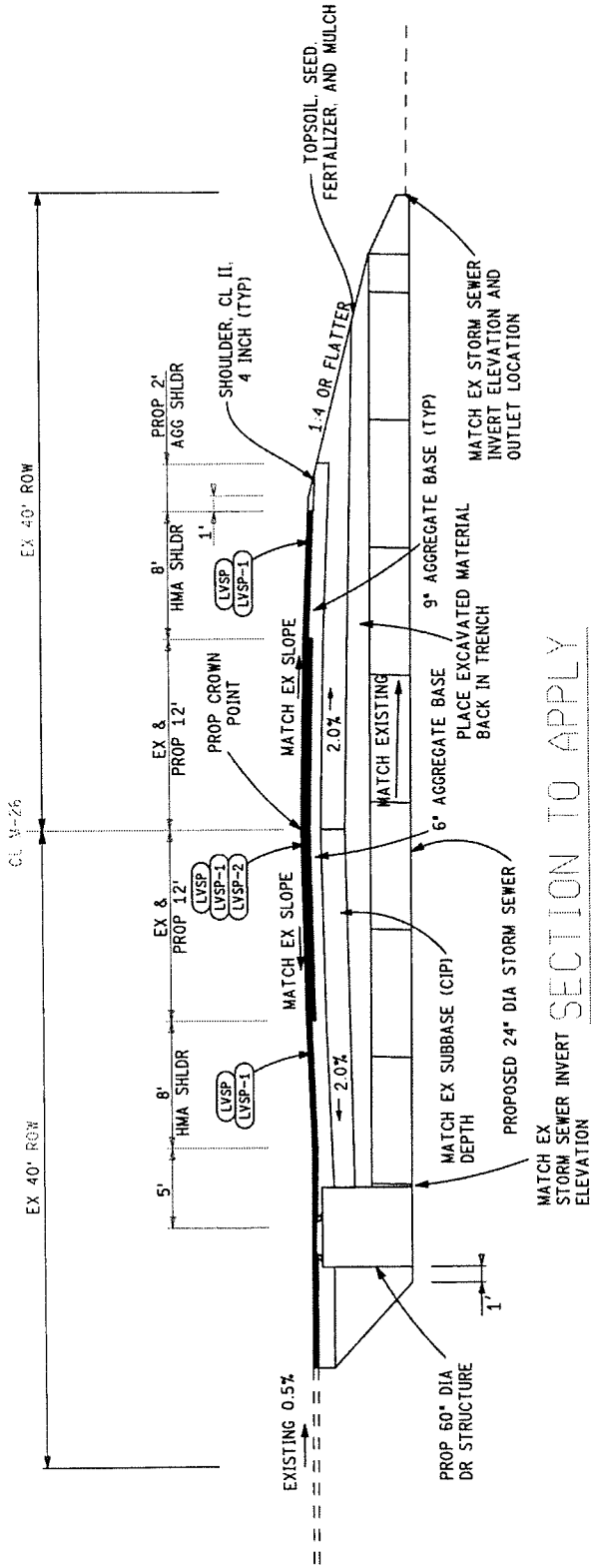
The existing HMA pavement shall be cut by saw or coultter wheel. This work will be considered included in the payment for other contract items.

NOTES APPLYING TO STANDARD PLANS

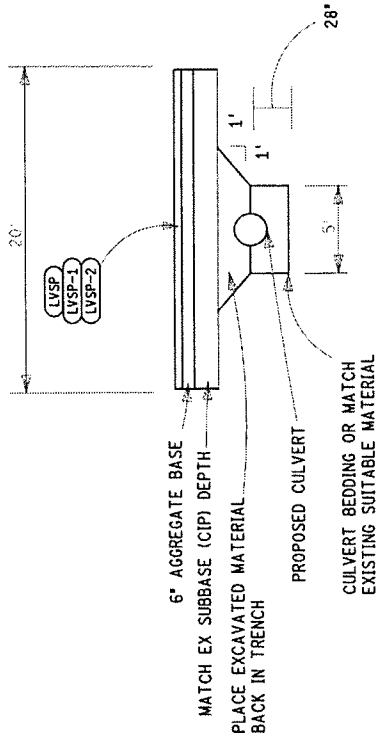
Where the following items are called for on the plans, they are to be constructed according to the standard plan given below opposite each item unless otherwise indicated.

| | |
|---|---------|
| Drainage Structures | R-1-G |
| Manhole Base Type 2 | R-4-D |
| Cover B | R-7-F |
| Cover G | R-12-E |
| Bedding and Filling Around Pipe Culverts | R-82-D |
| Utility Trenches | R-83-C* |
| Culv Sloped End Section | R-95-F |
| Soil Erosion & Sedimentation Control Measures | R-96-E |
| Seeding and Tree Planting | R-100-H |

*Denotes Special Detail



SECTION TO APPLY
FINAL SECTION
LOOKING NORTH



LONGITUDINAL SECTION

HMA APPLICATION ESTIMATE

| ITEM NO. | ITEM | RATE PER SYD | PERFORMANCE GRADE | REMARKS |
|----------|-------------|---------------|-------------------|----------------------|
| LVSP | HMA, LVSP | 165 lb | 58-34 | TOP COURSE (AWI=220) |
| LVSP-1 | HMA, LVSP | 220 lb | 58-34 | LEVELING COURSE |
| LVSP-2 | HMA, LVSP | 330 lb | 58-34 | BASE COURSE |
| | * BOND COAT | 0.05-0.15 GAL | | |

*FOR INFORMATION ONLY

