

PRINCIPALS

Daniel W. Mitchell
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Roland N. Alix
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CONTROLLER

Donna M. Martin

SENIOR ASSOCIATES

Gary J. Tressel
Randal L. Ford
William R. Davis
Dennis J. Benoit
Robert F. DeFrain
Thomas D. LaCross
Albert P. Mickalich
Timothy H. Sullivan
Thomas G. Maxwell

ASSOCIATES

Marshall J. Grazioli
Colleen L. Hill-Stramsak
Bradley W. Shepler
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Jane M. Graham
Todd J. Sneathen
Aaron A. Uranga
Salvatore Conigliaro
Melissa A. Coatta
Michael P. Darga
Brian K. Davies
James E. Scholl
Matthew G. Slicker
James J. Surhigh
Trevor S. Wagenmaker

HUBBELL, ROTH & CLARK, INC.

STREET: 105 W. Grand River
Howell, MI 48843

PHONE: 517-552-9199

WEBSITE: hrcengr.com

OTHER OFFICE LOCATIONS

Bloomfield Hills
Delhi Township
Detroit
Grand Rapids
Jackson
Kalamazoo
Lansing

ADDENDUM NO. 1
2018 ROAD MAINTENANCE PROGRAM
CITY OF WIXOM
OAKLAND COUNTY, MICHIGAN

March 28, 2018

HRC Job No. 20170567

ONLINE ONLY

<http://www.hrcengr.com/bid-info/>

INTENT:

This Addendum No. 1 is issued prior to receipt of bids to provide for certain changes and clarifications to the specifications and/or the plans, as herein specified, and is hereby made a part of the Contract Documents and shall be taken into consideration in preparing the Proposal. The General Conditions and Specifications for the original work and the Contract Drawings are to govern this work unless otherwise revised herein. All other conditions remain the same.

The Bidder shall acknowledge the receipt of this Addendum on Page 00300/5 of the Proposal.

CONTRACT DOCUMENTS

1. SPECIFICATION SECTION 00300 – PROPOSAL (Revised and Reissued).
 - Item 44 - Change pay item from “Curb and Gutter, Conc, Det B2” to “Curb and Gutter, Conc, Match Existing, Special” - Ft
 - Bidder must acknowledge addendum with signature
2. SPECIFICATION SECTION SP 4 – GEOGRID (Revised and Reissued)
 - Revised grid type
3. CONTRACT DRAWINGS
 - Sheet No. 8 (Revised and Resubmitted) – Name of proposed curb and gutter changed in curb repair detail. Where existing curb and gutter is removed and replaced, the new proposed curb and gutter shall match the existing that is present throughout the sub in width, height, etc.

A copy of the amended pages of the Contract Documents noted in this Addendum No. 1 have been posted online at <http://www.hrcengr.com/bid-info/> and should be utilized during the preparation of the bids and incorporated into the Bid Documents.

The Contractor shall acknowledge receipt of this Addendum No. 1 by signing in the location provided below and incorporating this Addendum No. 1 with the submission of his bid.

Failure to include Addendum No. 1 and its attachments may result in rejection of the bid.

Very truly yours,

HUBBELL, ROTH & CLARK, INC.



Andy Malczewski

AEM/aem

Attachment

pc: All Prospective Bidders
City of Wixom; T. Sikma
HRC; K. Stickel, M. Darga, N. Womack, S. Carver, File

Accepted by:

Company Name: _____

Name: _____

Written Name: _____

Address: _____

Telephone: _____ Fax: _____

PROPOSAL
FOR
2018 ROAD MAINTENANCE PROGRAM
CITY OF WIXOM
OAKLAND COUNTY, MICHIGAN

City of Wixom
49045 Pontiac Trail
Wixom, MI 48393
248-624-4557

Bids Due: April 10, 2018
On or before 10 am, Local Time
HRC Job No. 20170567

Name of Bidder: _____

Address: _____

Date: _____ Telephone: _____ Fax: _____

The above, as bidder, hereby declares this bid is made in good faith without fraud or collusion with any persons bidding, and that they have examined the plans, specifications, and all other information referenced in the Instructions to Bidders, and is familiar with the location of the work described herein and is fully informed as to the nature of the work and the conditions relating to the performance of the Contract.

The bidder acknowledges that they have not received or relied upon any representations or warranties of any nature whatsoever from the City of Wixom, its agents or employees, as to any conditions to be encountered in accomplishing the work and that their bid is based solely upon the bidder's own independent judgment.

The above, as bidder, hereby certifies that they have examined the plans, specifications, and other data provided by the Owner for bidding purposes. Further, the undersigned certifies that they have reviewed the proposed construction methods and finds them acceptable for the conditions which they anticipates from the information provided for bidding.

The Bidder hereby declares that the he/she has inspected the site of work and further declares that no charges in addition to the Individual Unit Prices shall be made on account of any job circumstances or field conditions which were present and/or ascertainable prior to the bidding. In addition, The Contractor, as such and as Bidder, shall make their own determination as to existing soil conditions and they shall also complete the work under whatever conditions they may create by his own sequence of construction, construction methods, or other conditions they may create, at no additional cost to the Owner.

The above, as Bidder, declares that they have familiarized themselves with the location of the proposed 2018 Road Maintenance Program and appurtenant construction in the City of Wixom, Livingston County, Michigan, and the conditions under which it must be constructed; also that they have carefully examined the Plans, Specifications, and Contract Documents which they understand and accepts as sufficient for the purpose of constructing said 2018 Road Maintenance Program, and appurtenant work, and agrees that they will contract with the City of Wixom to furnish all labor, materials, tools, equipment, facilities and supervision necessary to do all the work specified and prescribed for the City of Wixom, in strict accordance with the Owner's General Conditions, and with the full intent of the Drawings and Specifications, prepared by Hubbell, Roth & Clark, Consulting Engineers, and that they will accept in full payment therefore the sum of:

BASE BID

<u>Item</u>	<u>Quantity</u>	<u>Unit Price</u>	<u>Total Cost</u>
1. Mobilization, Max (5%)	1 Lsum @	\$ _____	= \$ _____
2. Curb and Gutter, Rem, Special	2,635 Ft @	\$ _____	= \$ _____
3. Pavt, Rem	130 Syd @	\$ _____	= \$ _____
4. Sidewalk, Rem	41 Syd @	\$ _____	= \$ _____
5. Subgrade Undercutting, 1 x 3, Special	900 Cyd @	\$ _____	= \$ _____
6. Erosion Control, Inlet Protection, Fabric Drop	30 Ea @	\$ _____	= \$ _____
7. Station Grading, Special	78.8 Sta @	\$ _____	= \$ _____
8. Aggregate Base, 21AA, Special	50 Ton @	\$ _____	= \$ _____
9. Aggregate Base, 8 inch, 21AA, Special	15,249 Syd @	\$ _____	= \$ _____
10. Maintenance Gravel	500 Ton @	\$ _____	= \$ _____
11. Glaspave 50 Engineered Paving Mat, Special	8,243 Syd @	\$ _____	= \$ _____
12. Geogrid, Special	14,236 Syd @	\$ _____	= \$ _____
13. Underdrain, Subgrade, Open-Graded, 6 inch, Special	2,600 Ft @	\$ _____	= \$ _____
14. Dr Structure Tap, 6 inch	56 Ea @	\$ _____	= \$ _____
15. Drainage Structure, Adjust, Special	1 Ea @	\$ _____	= \$ _____
16. Drainage Structure, Adjust, Add'l Depth, Special	20 Ft @	\$ _____	= \$ _____
17. Drainage Structure, Rebuild, Special	27 Ea @	\$ _____	= \$ _____
18. Drainage Structure, Rebuild, Add'l Depth, Special	22 Ft @	\$ _____	= \$ _____
19. Drainage Structure, Cover, Special	2 Ea @	\$ _____	= \$ _____
20. Drainage Structure, Cover and Casting, Special	27 Ea @	\$ _____	= \$ _____
21. Fire Hydrant, Adjust, Special	1 Ea @	\$ _____	= \$ _____
22. Fire Hydrant, Valve Box, Adjust, Special	19 Ea @	\$ _____	= \$ _____
23. Water Structure, Adjust, Special	9 Ea @	\$ _____	= \$ _____
24. Water Structure, Adjust, Add'l Depth, Special	18 Ft @	\$ _____	= \$ _____
25. Water Structure, Rebuild, Special	5 Ea @	\$ _____	= \$ _____
26. Water Structure, Rebuild, Add'l Depth, Special	1 Ft @	\$ _____	= \$ _____
27. Water Structure, Cover, Special	1 Ea @	\$ _____	= \$ _____
28. Water Structure, Cover and Casting, Special	19 Ea @	\$ _____	= \$ _____
29. Sanitary Structure, Adjust, Special	20 Ea @	\$ _____	= \$ _____
30. Sanitary Structure, Adjust, Add'l Depth, Special	35 Ft @	\$ _____	= \$ _____

31. Sanitary Structure, Rebuild, Special	5 Ea @	\$ _____	= \$ _____
32. Sanitary Structure, Rebuild, Add'l Depth, Special	5 Ft @	\$ _____	= \$ _____
33. Sanitary Structure, Cover, Special	5 Ea @	\$ _____	= \$ _____
34. Sanitary Structure, Cover and Casting, Special	34 Ea @	\$ _____	= \$ _____
35. Sanitary Structure, Membrane, Special	34 Ea @	\$ _____	= \$ _____
36. Cold Milling HMA Surface	14,326 Syd @	\$ _____	= \$ _____
37. Cold Milling HMA Surface, 2 inch	8,243 Syd @	\$ _____	= \$ _____
38. Hand Patching	115 Ton @	\$ _____	= \$ _____
39. HMA Approach	33 Ton @	\$ _____	= \$ _____
40. HMA, 5E1, 1.5 inch	15,147 Syd @	\$ _____	= \$ _____
41. HMA, 5E1, 2 inch	7,422 Syd @	\$ _____	= \$ _____
42. HMA, 4E1, 2.5 inch	15,147 Syd @	\$ _____	= \$ _____
43. Driveway, Nonreinf Conc, 6 inch	130 Syd @	\$ _____	= \$ _____
44. <i>Curb and Gutter, Conc, Match Existing, Special</i>	2,540 Ft @	\$ _____	= \$ _____
45. Curb and Gutter, Conc, Det M	95 Ft @	\$ _____	= \$ _____
46. Detectable Warning Surface	35 Ft @	\$ _____	= \$ _____
47. Sidewalk Ramp, Conc, 6 inch, Special	350 Sft @	\$ _____	= \$ _____
48. Sign, Rem, Special	50 Ea @	\$ _____	= \$ _____
49. Sign, Install, Special	50 Ea @	\$ _____	= \$ _____
50. Street Sign and Post Allowance	5,000 Dlr @	\$ <u>1.00</u>	= \$ <u>5,000.00</u>
51. Barricade, Type III, High Intensity, Double Sided, Furn	20 Ea @	\$ _____	= \$ _____
52. Barricade, Type III, High Intensity, Double Sided, Oper	20 Ea @	\$ _____	= \$ _____
53. Minor Traf Devices	1 Lsum @	\$ _____	= \$ _____
54. Plastic Drum, High Intensity, Furn	100 Ea @	\$ _____	= \$ _____
55. Plastic Drum, High Intensity, Oper	100 Ea @	\$ _____	= \$ _____
56. Sign, Type B, Temp, Prismatic, Furn	500 Sft @	\$ _____	= \$ _____
57. Sign, Type B, Temp, Prismatic, Oper	500 Sft @	\$ _____	= \$ _____
58. Traffic Regulator Control	1 Lsum @	\$ _____	= \$ _____
59. Dust Palliative, Applied	5 Ton @	\$ _____	= \$ _____
60. Turf Establishment, Special	2,300 Syd @	\$ _____	= \$ _____
61. Color Audio Video Route Survey, Special	1 Lsum @	\$ _____	= \$ _____

62. Sprinkler Line, Special	1,000 Ft @ \$ _____	= \$ _____
63. Sprinkler Head, Relocate, Special	50 Ea @ \$ _____	= \$ _____
64. Sprinkler Head, Replace, Special	50 Ea @ \$ _____	= \$ _____
Total Amount of Bid	\$ _____	

ALTERNATES

Voluntary Alternates proposed by the Bidder will not be considered. The Bidder shall submit his bid based on the information shown on the Drawings and Specifications

The Owner reserves the right to award the Base Bid depending upon the availability of funds.

The Owner, at their sole discretion, reserves the right to award to the Bidder who, in the sole determination of the Owner, will best serve the interest of the Owner. The Owner reserves the right to accept any bid, to reject any or all bids, to waive any and all informalities involving price, time, or changes in the work, and to negotiate contract terms with the successful Bidder, and the right to disregard all nonconforming, nonresponsive, unbalanced or conditional bids. However, it is the intention of the Owner to award to the low total bid to one bidder. Also, the Owner reserves the right to reject the bid of any Bidder if the Owner believes that it would not be in the best interest of the Project to make an award to that Bidder, whether because the bid is not responsive or the Bidder is unqualified, of doubtful financial ability, or fails to meet any other pertinent standard or criteria established by the Owner.

Each bidder agrees to waive any claim it has or may have against the Owner, the Architect/Engineer, and their respective employees, arising out of or in connection with the administration, evaluation, or recommendation of any bid.

Each Proposal must be accompanied by a bid deposit in the form of a certified check, cashier's check or bid bond, executed by the bidder and Surety Company, payable to the City of Wixom in the amount of Five Percent (5%) of the amount of the Proposal. See Instructions to Bidders – Bid Deposit for more information.

TAXES

The Bidder affirms that all applicable Federal, State and Local taxes of whatever character and description are included in all prices stated in this Form of Proposal.

FEES

The Bidder shall refer to the General Conditions for allowable Fees for additional work performed, upon Owner's written authorization, by Bidder's own forces and/or for additional work, upon Owner's written authorization, by Bidder's subcontractors.

TIME OF COMPLETION

If awarded the Contract for 2018 Road Maintenance Program, we agree to have all work sufficiently complete and in suitable condition to be designated "Approved for Traffic" and shall be Opened to Traffic as directed by

the Engineer, on or before **August 31, 2018**. The "Approved for Traffic" condition shall be as defined in section 107.21, Approved for Traffic, of the MDOT 2012 Standard Specifications for Construction.

The Bidder hereby agrees to furnish the required Bonds, Insurance Certificates, and Policies within ten (10) days after acceptance of this Proposal.

The entire project, including punch list items, shall be completed on or before **September 31, 2018**.

The execution of all work and specific constraints as described in the contract drawings and specifications must be strictly adhered to.

LIQUIDATED DAMAGES

Time is of the essence for completion of this project in order to have the Project ready for the City of Wixom. The Bidder guarantees that he/she can and will complete the work within the time limit stated hereinbefore or within the time as extended as provided elsewhere in the Specifications. Inasmuch as the damage and loss to the Owner which will result from the failure of the Bidder to complete the work within the stipulated time, will be most difficult or impossible to accurately determine, it is mutually agreed that the damages to the Owner for such delay and failure on the part of the Bidder shall be liquidated in the amount of Nine Hundred Dollars (\$900.00), for each and every calendar day by which the Bidder shall fail to complete the work or any part thereof within the provisions hereof, and such liquidated damages shall not be considered as a penalty.

The Owner will deduct and retain out of any money due or to become due hereunder the amount of the liquidated damages, and in case those amounts are less than the amount of actual liquidated damages, the Bidder shall pay the difference upon demand of the Owner.

We understand that liquidated damages may be assessed should we fail to meet the stipulated completion dates. Specifically, liquidated damages will be assessed daily beginning September 31, 2018 until such a time that Substantial Completion is achieved and further if all work is not completed by the Final Completion Date.

BIDS TO REMAIN FIRM

The price stated in this Proposal shall be guaranteed for a period of not less than 90 days from the bid due date and if authorized to proceed within that period, the bidder agrees to complete the work covered by the Proposal at said price.

If this Proposal is accepted by the Owner and the undersigned shall fail to contract as aforesaid and to furnish the required surety bonds within fifteen (15) days after being notified of the acceptance of his/her/her bid, then the undersigned shall be considered to have abandoned the contract, and the Certified Check, Cashier's Check or Bid Bond accompanying this Proposal shall be forfeited to the City of Wixom

If the undersigned enters into the contract in accordance with his/her proposal, or if his/her proposal is not accepted, then the accompanying bid guarantee shall be returned to the undersigned.

Company Name: _____

Signature: _____

Printed Name: _____ Title: _____

Address: _____

County: _____ State: _____

Telephone No.: _____ Fax No.: _____

Email Address: _____

ADDENDA

The Bidder acknowledges the following Addenda, covering revisions to the drawings or specifications and the cost, if any, of such revision has been included in the quoted proposal:

Addendum No _____ Dated _____

LEGAL STATUS OF BIDDER

This Bid is submittal in the name of:

(Print) _____

The undersigned hereby designates below his/her business address to which all notices, directions or other communications may be served or mailed:

Street _____

City _____

State _____ Zip Code _____

The undersigned hereby declares that he/she has legal status checked below:

- INDIVIDUAL
- INDIVIDUAL DOING BUSINESS UNDER AN ASSUMED NAME
The Assumed Name of the Co-Partnership is registered in the County of _____, Michigan
- CORPORATION INCORPORATED UNDER THE LAWS OF THE STATE OF _____
_____ The Corporation is
- LICENSED TO DO BUSINESS IN MICHIGAN
- NOT NOW LICENSED TO DO BUSINESS IN MICHIGAN

The name, titles, and home addresses of all persons who are officers or partners in the organization are as follows:

A corporation duly organized and doing business under the laws of the State of _____

NAME AND TITLE	HOME ADDRESS
_____	_____
_____	_____
_____	_____

Signed and Sealed this _____ day of _____, 2018.

By (Signature)

Printed Name of Signer

Title

BID BOND

KNOW ALL MEN BY THESE PRESENTS, that we, the undersigned, _____

As Principal, hereinafter called the Principal, and _____

A corporation duly organized under the laws of the State of _____

As surety, hereinafter called the SURETY, are held and firmly bound unto:

The Owner: _____

in the sum of _____ Dollar (\$ _____),

For the payment of which sum well and truly to be made, the said Principal and the said Surety, bind ourselves, our heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

WHEREAS, the Principal has submitted a bid for _____

NOW, THEREFORE, if the OWNER shall accept the bid of the Principal and the Principal shall enter into a contract with the OWNER in accordance with the terms of such bid, and give such bond or bonds as may be specified in the CONTRACT DOCUMENTS with good and sufficient surety for the faithful performance of such contract and for the prompt payment of labor and material furnished in the prosecution thereof, or in the event of the failure of the Principal to enter such contract and give such bond or bonds, if the Principal shall pay to the OWNER the difference not to exceed the penalty hereof between the amount specified in said bid and such larger amount for which the OWNER may in good faith contract with another party to perform the work covered by said bid, then his/her obligation shall be null and void, otherwise to remain in full force and effect.

Signed and sealed this _____ day of _____, 2018

(Witness)

(Principal)

(Seal)

(Title)

(Witness)

(Surety)

(Title)

END OF SECTION

SPECIAL PROVISION
FOR
GEOGRID

Description

This work shall consist of installing a geogrid within the pavement section for the purpose of improving the bearing capacity of the underlying, compressive materials. The geogrid is to be utilized at locations as indicated on the project plans and/or in conjunction with the "Subgrade Undercutting, 1 x 3, Special" pay item found elsewhere in the proposal.

Materials

Geogrid shall be *Tensar TriAx TX130S* or approved equal, not less than 6 feet in width. All geogrid shall be stored and handled in accordance with the manufacturer's recommendations.

Construction

The geogrid shall only be installed at locations when directed by Engineer.

All areas immediately beneath the installation area for the geogrid shall be properly prepared as shown on the plans, as specified, or as directed by the Engineer. The geogrid shall be installed in accordance with the manufacturer's recommendations at elevation shown on the plans, as specified, or as directed by the Engineer. Material placed on top of the geogrid shall be placed in accordance with the manufacturer's recommendations and shall be of type and size as shown on the plans, as specified, or as directed by the Engineer.

Only that amount of geogrid required for immediately pending work shall be placed to prevent undue exposure or damage to the geogrid. After a layer of geogrid has been placed, the succeeding layer of cover material shall be placed and compacted as required by the Engineer. To minimize ultraviolet degradation, the direct exposure of geogrid between placement and cover shall be a maximum of 5 calendar days.

The geogrid shall be placed with the highest tensile strength perpendicular to the centerline of the embankment. The geogrid shall be placed taut prior to cover placement. After a layer of geogrid has been placed, suitable means shall be used to anchor the geogrid in position until the subsequent cover layer can be placed. Adjacent rolls of geogrid shall be overlapped per plan or 1.5 feet, whichever is greater. The Engineer may require that lapped adjacent rolls be tied 13 feet on center using plastic electrical ties. Whenever possible the cover placement shall proceed from the centerline of the embankment out to assist in tensioning the geogrids.

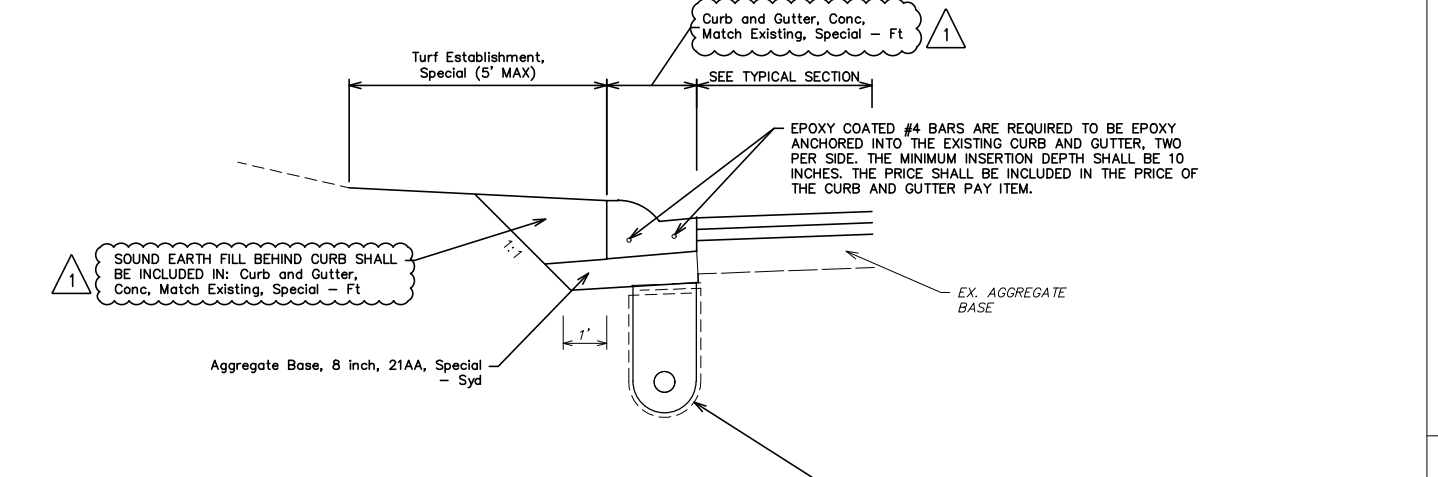
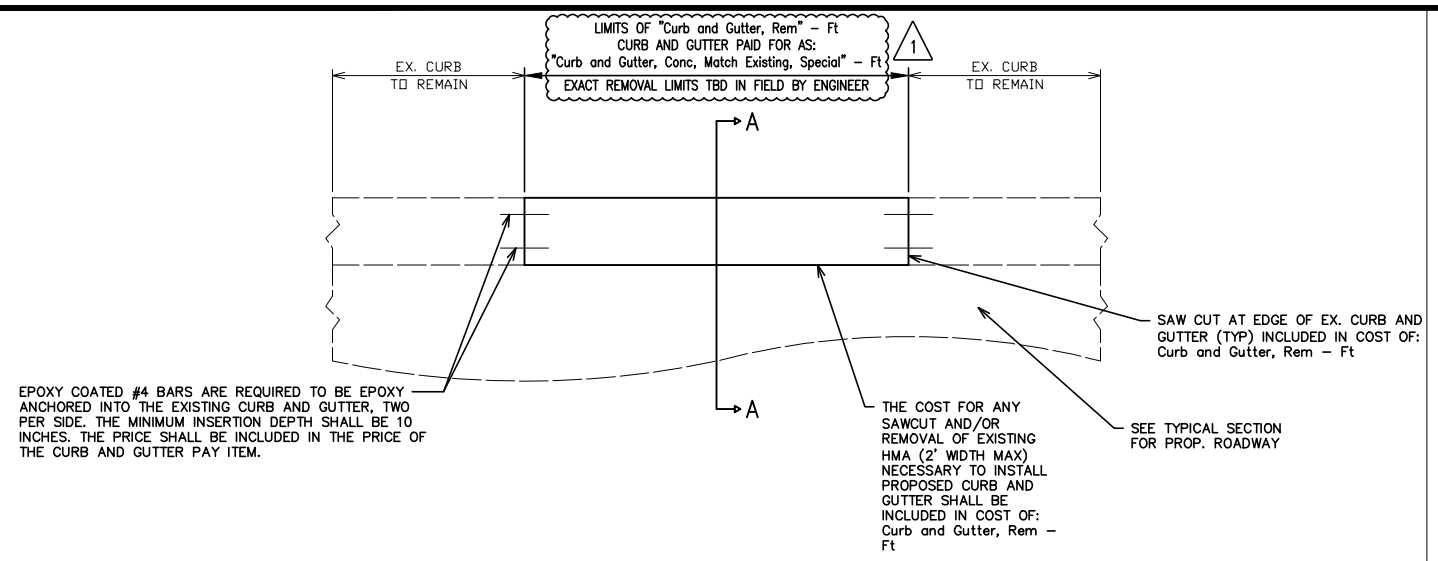
Construction vehicles will not be permitted on the geogrid until at least 6 inches of cover has been placed on the geogrid.

Measurement and Payment

The completed work will be paid for at the contract unit price for the following contract pay item:

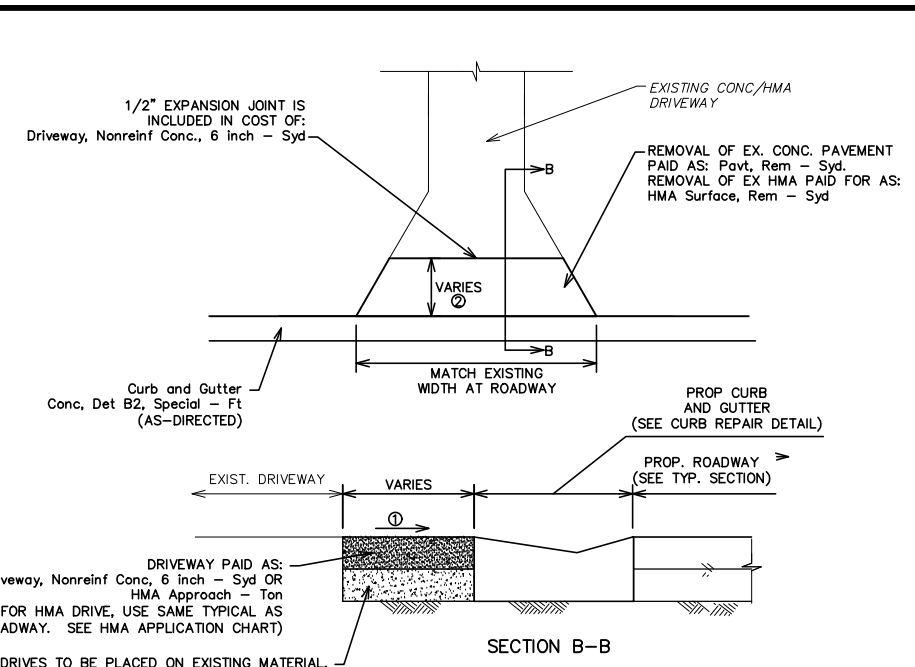
<u>Pay Item</u>	<u>Pay Unit</u>
Geogrid, Special	Square Yard

Payment for **Geogrid, Special** will be measured and paid for by the square yard, completed in place. No allowance will be made for overlap, splices or material cut off or wasted. Payment for Geogrid, Special will include furnishing the material, labor, and equipment required to furnish, place and anchor the geogrid, and any hand work necessary to establish grades, make geogrid splices, and repairs to protective coatings.



SECTION A-A
NO SCALE
CURB REPAIR DETAIL
NOT TO SCALE

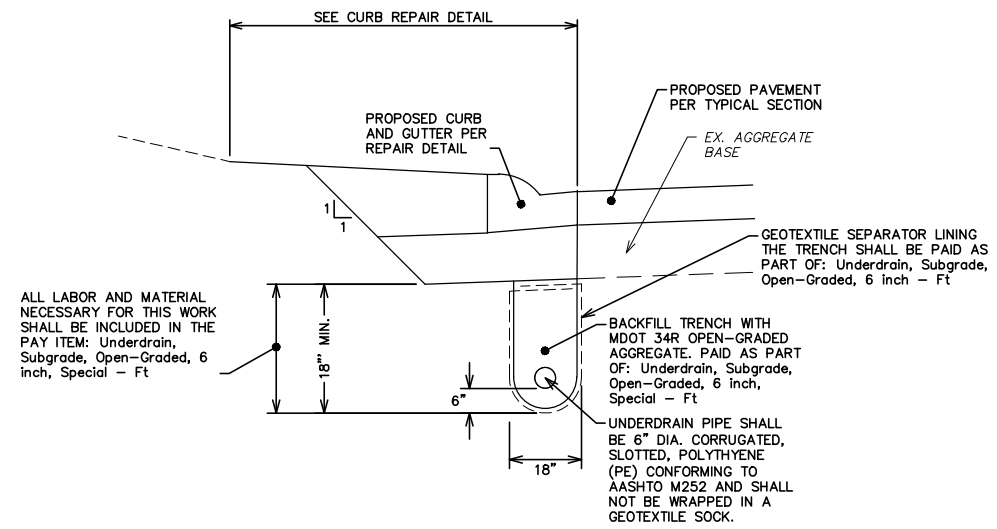
- NOTE:
1. CURB AND GUTTER TO BE REMOVED AND REPLACED ONLY AT LOCATIONS DIRECTED BY ENGINEER.
 2. FOR BIDDING PURPOSES, REPLACEMENT LOCATIONS WILL BE AT ALL DRAINAGE STRUCTURES TO ALLOW FOR ADJUSTMENT/REBUILDING OF STRUCTURES. THEY WILL ALSO BE AT MISCELLANEOUS LOCATIONS ON ALL STREETS. THESE MISCELLANEOUS AREAS CAN BE AS LITTLE AS 5' IN LENGTH. CONTRACTOR SHOULD PLAN ON MANY SHORT RUNS OF REPLACEMENT AND NOT ON LONG LENGTHS OF REMOVAL AND REPLACEMENT AT ANY ONE LOCATION.
 3. IF CURB REPAIR TAKES PLACE IN FRONT OF AN EXISTING DRIVEWAY AND REMOVAL OF A PORTION OF DRIVEWAY IS NECESSARY, LIMITS OF REMOVAL WILL BE AS-DIRECTED BY ENGINEER. SEE DRIVEWAY DETAIL.
 4. THE COST FOR ANY SAWCUT AND/OR REMOVAL OF EXISTING HMA (2' WIDTH MAX) NECESSARY TO INSTALL PROPOSED CURB AND GUTTER SHALL BE INCLUDED IN COST OF: Curb and Gutter, Rem - Ft
 5. FOR HMA REPLACEMENT ON TEANECK, ROXBURY AND FOX HOLLOW, A 2 INCH LIFT OF 5E1 TO BE USED AS BASE COURSE AND PAID FOR AS: Hand Patch - Ton.



PROPOSED DRIVES TO BE PLACED ON EXISTING MATERIAL, WITH NEW AGGREGATE PLACED ONLY AS NEEDED. SUPPLEMENTAL AGGREGATE BASE PAID FOR AS: Aggregate Base, 21AA, Special - Ton

RESIDENTIAL DRIVEWAY DETAIL

- NOTES
1. PROPOSED SLOPE TO MATCH EXISTING SLOPE.
 2. WHEN REMOVING AND REPLACING A PORTION OF A CONCRETE DRIVEWAY, IT IS THE INTENT TO REMOVE AND REPLACE TO THE FIRST JOINT WHERE PRACTICAL (10' MAX). EXACT LIMITS TBD IN FIELD BY ENGINEER BEFORE REMOVAL. ANY SAWCUTTING NECESSARY SHALL BE INCLUDED IN COST OF PAVT, REM.
 3. PROPOSED FOOTPRINT OF DRIVEWAY TO MATCH EXISTING FOOTPRINT OF DRIVEWAY.
 4. AGGREGATE BASE (TON) UNDER PROPOSED DRIVEWAYS WILL BE PAID OUT ONLY WHEN APPROVED BY ENGINEER. INTENT IS TO INSTALL ON EXISTING GROUND WHENEVER POSSIBLE.



UNDERDRAIN DETAIL

NOT TO SCALE

- NOTE:
1. UNDERDRAIN TRENCH LOCATION: FRONT OF UNDERDRAIN TRENCH SHALL BE ALIGNED WITH FRONT OF CURB OR AS DIRECTED BY ENGINEER.
 2. TAPPING OF EXISTING DRAINAGE STRUCTURE FOR UNDERDRAIN OUTLET SHALL BE PAID FOR AS "Drainage Structure Tap, 6 inch" - Ea
 3. UNDERDRAIN TO BE INSTALLED WHERE DIRECTED BY ENGINEER AND AT LOCATIONS WHERE CURB AND GUTTER IS REMOVED AT EXISTING DRAINAGE STRUCTURE. THIS INCLUDES WHEN REBUILDING EXISTING CATCH BASINS. TEN (10') FEET IN EACH DIRECTION FROM EXISTING BASIN TO BE INSTALLED.

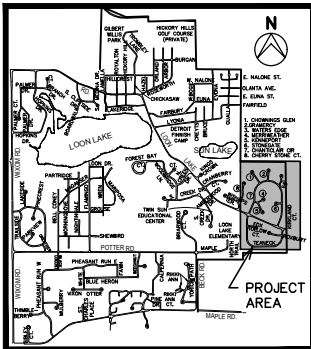


DEPARTMENT OF PUBLIC SERVICES

HRC
HUBBELL, ROTH & CLARK, INC
CONSULTING ENGINEERS SINCE 1915
105 W. GRAND RIVER AVE.
HOWELL, MI 48843
PHONE: (517) 552-9199
FAX: (517) 552-6099
WEB SITE: <http://www.hrcengr.com>

DATE	ADDITIONS AND/OR REVISIONS
03-28-18	ADDENDUM NO. 1
03-13-18	ISSUED FOR BIDS
03-06-18	ISSUED FOR FINAL REVIEW
12-20-17	ISSUED FOR CITY REVIEW

DESIGNED	A.E.M.
DRAWN	D.M.J.
CHECKED	M.P.D.
APPROVED	



CITY OF WIXOM
2018 ROAD MAINTENANCE PROGRAM

DETAIL SHEET

HRC JOB NO.	SCALE
20170567	N/A
DATE	SHEET NO.
MARCH 2018	8 OF 19