



**ADDENDUM 2
TO PLANS AND SPECIFICATIONS FOR THE
OLTHOFF DRIVE ROADWAY EXTENSION**

ISSUED: December 6, 2022

HRC Job No. 20210307

This Addendum is issued prior to receipt of bids to provide for certain changes and clarifications to the Specifications and/or the Drawings, as herein specified, and is hereby made a part of the Contract Documents and shall be taken into consideration in preparing the Proposal. All other conditions remain the same.

Receipt of this addendum must be noted in the place provided on the Bid Form and dated December 1, 2022.

ADDENDUM:

PLAN SHEETS:

1. Sheet 4 – Detail Sheet:

- The leaching basin detail was changed to display “Leaching Basin, 72 inch dia” instead of “Leaching Basin, 48 inch dia”. The dimensions on the detail changed, as well as the detail label.
- The underdrain detail shows a change in the type of underdrain. Previously, a detail for standard underdrain was shown. This item was changed to an open-graded underdrain.

2. Sheet 6 – Proposed Site Plan:

- The 2 notes pointing to the rubble piles were edited to include the method of payments for removal. The removal will be paid as “Excavation, Earth”.

3. Sheet 7 – Removal Sheet:

- The pay item “Hydrant, Relocate, Case 2” was removed from the quantity table. As the note on the plan sheet describes, the pay item for the relocation of this hydrant (Hydrant, Relocate, Case 2) is shown on plan sheet 12.

4. Sheet 10 – Road Improvements Sheet:

- The 48 inch diameter leaching basins were replaced with 72 inch diameter leaching basins. The pay item is “Leaching Basin, 72 inch dia”. The invert elevations of the structures are now shown. The structure schedule and quantities have been updated accordingly.
- The pay item “Underdrain, Subgrade, 12 inch” has been replaced by “Underdrain, Subgrade, Open-Graded, 12 inch”. See detail.

5. Sheet 11 – Road Improvements Sheet:

- The 48 inch diameter leaching basins were replaced with 72 inch diameter leaching basins, and two more leaching basins were added. The pay item is “Leaching Basin, 72 inch dia”. The invert elevations of the structures are now shown. The structure schedule and quantities have been updated accordingly.
- The quantity “Dr Structure Cover, Type K, Modified” was increased by 2 to account for the new leaching basins.
- The pay item “Underdrain, Subgrade, 12 inch” has been replaced by “Underdrain, Subgrade, Open-Graded, 12 inch”. See detail.

6. Sheet 14 – Utility Improvements Sheet:

- The updated leaching basins are shown.

7. Sheet 15 – Utility Improvements Sheet:

- The updated leaching basins and new basins are shown.

SPECIFICATIONS:

1. Section 00010 – Table of Contents:

- Section 11510 “Safety Equipment” was deleted from the Table of Contents.

2. Section 00300 – Proposal:

- The quantity of the pay item “Dr Structure Cover, Type K, Modified” has been increased from 14 to 16. 2 leaching basins were added, requiring 2 new covers.
- The pay item “Leaching Basin, 48 inch dia” has been replaced with “Leaching Basin, 72 inch dia”. All 8 leaching basins increased in size and 2 additional leaching basins have been added, making a total quantity of 10.
- The pay item “Underdrain, Subgrade, 12 inch” was removed and replaced with “Underdrain, Subgrade, Open-Graded, 12 inch”.
- The quantity of the item “Hydrant, Relocate, Case 2” was reduced from 2 Ea to 1 Ea.

3. Section 00310 – Bid Item Description:

- The pay item “Aggregate Base, 6 inch” description was changed to no longer include the language about the 21AA aggregate piles on site. The construction quantities include enough aggregate (paid for as “Aggregate Base, 6 inch”) to not utilize these piles. At this time, the Contractor should not plan on being able to use these piles. However, the contractor should plan on removing the piles after the project. This will be paid as “Excavation, Earth”.

- The pay item “Leaching Basin, 48 inch dia” has been replaced with “Leaching Basin, 72 inch dia”.
- The pay item “Underdrain, Subgrade, 12 inch” was removed and replaced with “Underdrain, Subgrade, Open-Graded, 12 inch”.

4. Section 00800 – General Supplementary Conditions:

- Builders Risk Insurance will not be required for the project. The language about Builders Risk Insurance in Section 00800 has been removed.

5. Section 11510 – Safety Equipment:

- Section 11510 “Safety Equipment” is unneeded and has been removed from the project.

6. Section 02663 – Watermain and Fittings:

- In Section 02663 “Watermain and Fittings”, the section discussing the pre-ordering of watermain materials has been changed. Originally, the watermain materials were going to be paid for and delivered to the City of Muskegon for the Contractor to take custody of. Now, the City has ordered the materials to hedge against lead-times, but will not be paying for the materials. Upon the award of the project, the Contractor will take ownership of the order and purchase the materials directly from the vendor.
- A “Use-Tax” will not be needed if the materials are purchased by the Contractor.
- A copy of the hydrant order form has already been included in addendum 1, but has been included again for clarity. There should now be three order forms attached: Watermain order form, Gasket order form, and Hydrant order form.

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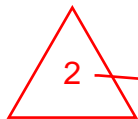
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END OF SECTION

PROPOSAL
FOR
OLTHOFF DRIVE INDUSTRIAL PARK ROADWAY EXPANSION PROJECT
CITY OF MUSKEGON
MUSKEGON COUNTY, MICHIGAN

City of Muskegon
1350 East Keating Avenue
Muskegon, MI 49442

Bids Due: December 13, 2022
On or Before 2:00 pm, Local Time
HRC Job No. 20210307

To Prospective Bidders:

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 the Drawings, Specifications, and all other information referenced in the Instructions to Bidders have been examined. Further, the Bidder 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 no representations or warranties of any nature whatsoever have been received, or are relied upon from the City of Muskegon, its agents or employees, as to any conditions to be encountered in accomplishing the work and that the bid is based solely upon the Bidder's own independent judgment.

The above, as Bidder, hereby certifies that the Drawings, Specifications, and other data provided by the Owner for bidding purposes have been examined. Further, the undersigned certifies that the proposed construction methods have been reviewed and found acceptable for the conditions which can be anticipated from the information provided for bidding.

The Bidder hereby affirms that the site of work has been inspected 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 the determination as to existing soil conditions and shall also complete the work under whatever conditions created by the Contractor/Bidder's sequence of construction, construction methods, or other conditions the Contractor/Bidder may create, at no additional cost to the Owner.

The above, as Bidder, confirms knowledge of the location of the proposed Olthoff Drive Industrial Park Roadway Expansion Project and appurtenant construction in the City of Muskegon of Muskegon County, Michigan, and the conditions under which it must be constructed; and also declares to have carefully examined the Drawings, Specifications, and Contract Documents which the Bidder understands and accepts as sufficient for the purpose of constructing said Project, and appurtenant work, and agrees to contract with the City of Muskegon to furnish all labor, materials, tools, equipment, facilities and supervision necessary to do all the work specified and prescribed for the City of Muskegon, 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 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 - LSUM	1	@ \$	= \$
2. Clearing - Acre	0.5	@ \$	= \$
3. Sewer, Rem, Less than 24 inch - Ft	6	@ \$	= \$
4. Curb and Gutter, Rem - Ft	630	@ \$	= \$
5. Fence, Rem - Ft	30	@ \$	= \$
6. Embankment, CIP - Cyd	430	@ \$	= \$
7. Excavation, Earth - Cyd	4325	@ \$	= \$
8. Machine Grading - Sta	33	@ \$	= \$
9. Erosion Control, Silt Fence - Ft	1421	@ \$	= \$
10. Aggregate Base, 6 inch - Syd	8709	@ \$	= \$
11. Sewer, CI IV, 12 inch, Tr Det A - Ft	421	@ \$	= \$
12. Sewer, CI IV, 12 inch, Tr Det B - Ft	88	@ \$	= \$
13. Video Taping Sewer and Culv Pipe - Ft	1411	@ \$	= \$
14. Dr Structure, Tap, 12 inch - Ea	1	@ \$	= \$
15. Catch Basin, Removal and Relocation - Ea	4	@ \$	= \$
16. Catch Basin, Special, 48 inch dia - Ea	4	@ \$	= \$
17. Dr Structure Cover, Adj, Case 1, Modified - Ea	1	@ \$	= \$
18. Dr Structure Cover, Type K, Modified - Ea	16	@ \$	= \$
19. Leaching Basin, 72 inch dia - Ea	10	@ \$	= \$
20. Sanitary Manhole Cover - Ea	3	@ \$	= \$
21. Underdrain, Subgrade, Open-Graded, 12 inch - Ft	876	@ \$	= \$
22. HMA Surface, Rem - Syd	4485	@ \$	= \$
23. HMA, 4EML - Ton	1763	@ \$	= \$
24. Curb and Gutter, Conc, Det F4 - Ft	3346	@ \$	= \$
25. Post, Steel, 3 lb - Ft	120	@ \$	= \$
26. Sign, Type III, Erect, Salv - Ea	2	@ \$	= \$
27. Sign, Type III, Rem - Ea	2	@ \$	= \$
28. Sign, Type IIIB - Sft	43	@ \$	= \$
29. Reflective Panel for Permanent Sign Support, 6 foot - Ft	4	@ \$	= \$
30. Pavt Mrkg, Waterborne, 4 inch, Yellow - Ft	2954	@ \$	= \$
31. Gate Valve and Box, 8 inch - Ea	6	@ \$	= \$
32. Gate and Valve Box, 12 inch - Ea	1	@ \$	= \$
33. Hydrant, Relocate, Case 2 - Ea	1	@ \$	= \$
34. Water Main, 8 inch, Cut and Plug - Ea	6	@ \$	= \$
35. Live Tap, 12 inch by 16 inch - Ea	1	@ \$	= \$
36. Gate Box, Adj, Case 1 - Ea	1	@ \$	= \$
37. Water Main, DI, 12 inch, Tr Det G - Ft	1355	@ \$	= \$
38. Water Main, DI, 8 inch, Tr Det G - Ft	422	@ \$	= \$
39. Bend, 12 inch, 22.5 Degree, DI MJ - Ea	2	@ \$	= \$
40. Bend 12 inch, 45 Degree, DI MJ - Ea	22	@ \$	= \$
41. Hydrant, 6 inch, Standard - Ea	5	@ \$	= \$
42. Reducer, 12 inch X 8 inch, DI MJ - Ea	1	@ \$	= \$
43. Tee, 12 inch X 6 inch, DI MJ - Ea	5	@ \$	= \$

44. Tee, 12 inch X 8 inch, DI MJ - Ea	5	@	\$ _____	= \$ _____
45. Tee, 16 inch X 12 inch, DI MJ - Ea	1	@	\$ _____	= \$ _____
46. Sanitary Sewer, PVC, 8 inch, Tr Det B2 - Ft	127	@	\$ _____	= \$ _____
47. Sanitary Sewer, PVC, 12 inch, Tr Det B2 - Ft	791	@	\$ _____	= \$ _____
48. Sanitary Structure, 48 inch dia - Ea	3	@	\$ _____	= \$ _____
49. Sanitary Structure, Tap, 12 inch - Ea	1	@	\$ _____	= \$ _____
50. Sanitary Structure Cover, Adj, Case 2 - Ea	1	@	\$ _____	= \$ _____

Total Amount of Bid \$ _____

ALTERNATES

Voluntary Alternates proposed by the Bidder will not be considered. The Bidder shall submit a bid based on the information shown on the Drawings and Specifications. Alternates listed below are for the Owner's convenience and shall be priced as indicated by the work description. All alternates shall be clearly marked whether they represent an add or deduct to the Base Bid Price quoted herein. All Alternates which are quoted shall be complete and the price shall include all Bidder mark-ups. Each Alternate shall be clearly marked if it represents an Add or a Deduct from the Base Bid Price.

No Alternates are proposed.

The Owner reserves the right to award the Base Bid or the Base Bid plus any or individual Alternate or combination of Alternates, depending upon the availability of funds.

The Owner, at its 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 Muskegon 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.

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 _____
Addendum No. _____	Dated _____
Addendum No. _____	Dated _____
Addendum No. _____	Dated _____

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 the Olthoff Drive Industrial Park Roadway Extension Project, we agree to have all work substantially completed by June 1, 2023. Substantial Completion is defined that the facility is ready to use for its intended purpose with all utility systems fully functional.

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

Final Completion with all clean-up and punch-list items shall be complete by June 30, 2023.

The execution of all work and specific constraints as described in the contract drawings and specifications, with particular reference to Section 02030 Sequence of Construction and Special Project Requirements, 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 Muskegon (OWNER). The Bidder guarantees that the work will be completed within the time limit stated herein before 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 Five Hundred Dollars (\$500.00), 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 June 1, 2023 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 [XX] 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 their 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 [Village, City, Township] of _____.

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

Company Name: _____

Signature: _____ Title: _____

Address: _____

County: _____ State: _____

Telephone No.: _____ Fax No.: _____

Email Address: _____

LEGAL STATUS OF BIDDER

This Bid is submittal in the name of:

(Print) _____

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

Street _____

City _____

State _____ Zip Code _____

The undersigned hereby declares the legal status checked below:

- ☐ INDIVIDUAL
- ☐ INDIVIDUAL DOING BUSINESS UNDER AN ASSUMED NAME
- ☐ CO-PARTNERSHIP
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 _____, 20__.

By (Signature)

Printed Name of Signer

Title

BID BOND

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 _____ Dollars (\$ _____),

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 the obligation of the Principal shall be null and void, otherwise to remain in full force and effect.

Signed and sealed this _____ day of _____, 20____

(Witness)

(Principal)

(Seal)

(Title)

(Witness)

(Surety)

(Title)

END OF SECTION

SECTION 00310

BID ITEM DESCRIPTION

PART 1 GENERAL

1.1 SCOPE

- A. This Section describes the method of measurement and basis of payment for several items of Work included in the Contract and specified in the Proposal.
 - 1. The Contractor shall provide all labor, material, tools, equipment and services required to complete the Work specified herein and indicated on the Plans and all other items necessary to complete the job, whether specifically mentioned or implied.
 - 2. Payment will only be made for the items listed in the Proposal Form.
- B. The Owner will make no allowances for items not included in the Proposal Form.

1.2 ITEMS OF THE PROPOSAL

Mobilization, Max (up to 10%)

This bid item shall be paid for at the Contract Unit Price per **lump sum** basis. The Work required by this item shall include, but not be limited to, the preparatory work and operations necessary for the movement of personnel, equipment, supplies, and incidentals to the project site; for the establishment of the Contractor's offices, buildings, and other facilities necessary to undertake the Work on the project; and for other work and operations which must be performed or for expenses incurred prior to beginning work on the various contract items on the project site. It shall also include pre-construction costs, exclusive of bidding costs, which are necessary direct costs to the project and are of a general nature rather than directly attributable to other pay items under the contract. The Work shall include all demobilizations and remobilizations which are required due to seasonal suspension of the Work. This contract pay item also includes all other items and costs not included in the price bid for specific items such as overhead, insurance, permits, safety program, coordination with others, and the like. All cost to the Contractors for full compliance with all requirements of the General Conditions sections shall also be included in this pay item.

The Contract Unit Price for Mobilization **shall not exceed ten (10) percent** of the Total Amount of Bid minus the amount for this pay item.

Additional unit prices will not be paid for the Contractor to remobilize to the site regardless of the staging or sequence of construction preferred by the Contractor. The initial payment for the project shall not be made until construction has been started and a schedule of values for the project has been approved. The total sum of all payments for this item shall not exceed the original contract amount bid for MOBILIZATION, regardless of the fact that the Contractor may have, for any reason, shut down his work on the project, moved equipment away from the project and then back again, or for additional quantities or items of work added to the contract.

Clearing

This bid item shall be paid for at the Contract Unit Price per **acre**. Measurement and payment and the Work included and required by this item are described herein, on the plans and according to the MDOT 2020 Standard Specifications for Construction.

This work will be performed at locations where required and as shown on the construction drawing.

Sewer, Rem, Less than 24 inch

This bid item shall be paid for at the Contract Unit Price per **lineal foot**. Measurement and payment and the Work included and required by this item are described herein, on the plans and according to the MDOT 2020 Standard Specifications for Construction.

This work will be performed at locations where required and as shown on the construction drawing.

Curb and Gutter, Rem

This bid item shall be paid for at the Contract Unit Price per **lineal foot**. Measurement and payment and the Work included and required by this item are described herein, on the plans and according to the MDOT 2020 Standard Specifications for Construction.

This work will be performed at locations where required and as shown on the construction drawing.

Fence, Rem

This bid item shall be paid for at the Contract Unit Price per **lineal foot**. Measurement and payment and the Work included and required by this item are described herein, on the plans and according to the MDOT 2020 Standard Specifications for Construction.

This work will be performed at locations where required and as shown on the construction drawing.

Embankment, CIP

This bid item shall be paid for at the Contract Unit Price per **cubic yard**. Measurement and payment and the Work included and required by this item are described herein, on the plans and according to the MDOT 2020 Standard Specifications for Construction.

This work will be performed at locations where required and as shown on the construction drawing.

Excavation, Earth

This bid item shall be paid for at the Contract Unit Price per **cubic yard**. Measurement and payment and the Work included and required by this item are described herein, on the plans and according to the MDOT 2020 Standard Specifications for Construction.

This work will be performed at locations where required and as shown on the construction drawing.

Machine Grading

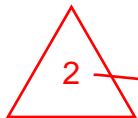
This bid item shall be paid for at the Contract Unit Price per **station**. Measurement and payment and the Work included and required by this item are described herein, on the plans and according to the MDOT 2020 Standard Specifications for Construction.

This work will be performed at locations where required and as shown on the construction drawings.

Erosion Control, Silt Fence

This bid item shall be paid for at the Contract Unit Price per **lineal foot**. Work included and required by this item are described herein and on the plans.

This work will be performed at locations where required and as shown on the construction drawings.



Aggregate Base, 6 inch

This bid item shall be paid for at the Contract Unit Price per **square yard**. Measurement and payment and the Work included and required by this item are described herein and on the plans.

This work will be performed at locations where required and as shown on the construction drawing.

Sewer, CI IV, 12 inch, Tr Det A

This bid item shall be paid for at the Contract Unit Price per **lineal foot**. Measurement and payment and the Work included and required by this item are described herein, on the plans and according to the MDOT 2020 Standard Specifications for Construction.

This work will be performed at locations where required and as shown on the construction drawing.

Sewer, CI IV, 12 inch, Tr Det B

This bid item shall be paid for at the Contract Unit Price per **lineal foot**. Measurement and payment and the Work included and required by this item are described herein, on the plans and according to the MDOT 2020 Standard Specifications for Construction.

This work will be performed at locations where required and as shown on the construction drawing.

Video Taping Sewer and Culv Pipe

This bid item shall be paid for at the Contract Unit Price per **lineal foot**. Measurement and payment and the Work included and required by this item are described herein, on the plans and according to the MDOT 2020 Standard Specifications for Construction.

This work will be performed at locations where required and as shown on the construction drawings.

Dr Structure, Tap, 12 inch

This bid item shall be paid for at the Contract Unit Price per **each**. Measurement and payment and the Work included and required by this item are described herein, on the plans and according to the MDOT 2020 Standard Specifications for Construction.

This work will be performed at locations where required and as shown on the construction drawings.

Catch Basin, Removal and Relocation

This bid item shall be paid for at the Contract Unit Price per **each**. Measurement and payment and the Work included and required by this item are described herein, and in the plans.

This work will be performed at locations where required and as shown on the construction drawings.

Catch Basin, Special, 48 inch dia

This bid item shall be paid for at the Contract Unit Price per **each**. Measurement and payment and the Work included and required by this item are described herein, on the plans, and in section 02737.

This work will be performed at locations where required and as shown on the construction drawings.

Dr Structure Cover, Adj, Case 1, Modified

This bid item shall be paid for at the Contract Unit Price per **each**. Measurement and payment and the Work included and required by this item are described herein, on the plans and in section 02739.

This work will be performed at locations where required and as shown on the construction drawings.

Dr Structure Cover, Type K, Modified

This bid item shall be paid for at the Contract Unit Price per **each**. Measurement and payment and the Work included and required by this item are described herein, on the plans and in section 02738.

This work will be performed at locations where required and as shown on the construction drawings.

2

Leaching Basin, 72 inch dia

This bid item shall be paid for at the Contract Unit Price per **each**. Measurement and payment and the Work included and required by this item are described herein, on the plans, and in section 02735.

This work will be performed at locations where required and as shown on the construction drawings.

Sanitary Manhole Cover

This bid item shall be paid for at the Contract Unit Price per **each**. Measurement and payment and the Work included and required by this item are described herein and on the plans.

This work will be performed at locations where required and as shown on the construction drawings.

2

Underdrain, Subgrade, Open-Graded, 12 inch

This bid item shall be paid for at the Contract Unit Price per **lineal foot**. Measurement and payment and the Work included and required by this item are described herein, on the plans and according to the MDOT 2020 Standard Specifications for Construction.

This work will be performed at locations where required and as shown on the construction drawing.

HMA surface, Rem

This bid item shall be paid for at the Contract Unit Price per **square yard**. Measurement and payment and the Work included and required by this item are described herein, on the plans and according to the MDOT 2020 Standard Specifications for Construction.

This work will be performed at locations where required and as shown on the construction drawings.

HMA, 4EML

This bid item shall be paid for at the Contract Unit Price per **ton**. Measurement and payment and the Work included and required by this item are described herein, on the plans and according to the MDOT 2020 Standard Specifications for Construction.

This work will be performed at locations where required and as shown on the construction drawings.

Curb and Gutter, Conc, Det F4

This bid item shall be paid for at the Contract Unit Price per **lineal foot**. Measurement and payment and the Work included and required by this item are described herein, on the plans and according to the MDOT 2020 Standard Specifications for Construction.

This work will be performed at locations where required and as shown on the construction drawings.

Post, Steel, 3 lb

This bid item shall be paid for at the Contract Unit Price per **lineal foot**. Measurement and payment and the Work included and required by this item are described herein, on the plans and according to the MDOT 2020 Standard Specifications for Construction.

This work will be performed at locations where required and as shown on the construction drawings.

Sign, Type III, Erect, Salv

This bid item shall be paid for at the Contract Unit Price per **each**. Measurement and payment and the Work included and required by this item are described herein, on the plans and according to the MDOT 2020 Standard Specifications for Construction.

This work will be performed at locations where required and as shown on the construction drawings.

Sign, Type III, Rem

This bid item shall be paid for at the Contract Unit Price per **each**. Measurement and payment and the Work included and required by this item are described herein, on the plans and according to the MDOT 2020 Standard Specifications for Construction.

This work will be performed at locations where required and as shown on the construction drawings.

Sign, Type IIIB

This bid item shall be paid for at the Contract Unit Price per **square foot**. Measurement and payment and the Work included and required by this item are described herein, on the plans and according to the MDOT 2020 Standard Specifications for Construction.

This work will be performed at locations where required and as shown on the construction drawings.

Reflective Panel for Permanent Sign Support, 6 foot

This bid item shall be paid for at the Contract Unit Price per **each**. Measurement and payment and the Work included and required by this item are described herein, on the plans and according to the MDOT 2020 Standard Specifications for Construction.

This work will be performed at locations where required and as shown on the construction drawings.

Pavt Mrkg, Waterborne, 4 inch, Yellow

This bid item shall be paid for at the Contract Unit Price per **lineal foot**. Measurement and payment and the Work included and required by this item are described herein, on the plans and according to the MDOT 2020 Standard Specifications for Construction.

This work will be performed at locations where required and as shown on the construction drawings.

Gate Valve and Box, 8 inch

This bid item shall be paid for at the Contract Unit Price per **each**. Measurement and payment and the Work included and required by this item are described herein, on the plans and according to the MDOT 2020 Standard Specifications for Construction.

This work will be performed at locations where required and as shown on the construction drawings.

Gate Valve and Box, 12 inch

This bid item shall be paid for at the Contract Unit Price per **each**. Measurement and payment and the Work included and required by this item are described herein, on the plans and according to the MDOT 2020 Standard Specifications for Construction.

This work will be performed at locations where required and as shown on the construction drawings.

Hydrant, Relocate, Case 2

This bid item shall be paid for at the Contract Unit Price per **each**. Measurement and payment and the Work included and required by this item are described herein, on the plans and according to the MDOT 2020 Standard Specifications for Construction.

This work will be performed at locations where required and as shown on the construction drawings.

Water Main, 8 inch, Cut and Plug

This bid item shall be paid for at the Contract Unit Price per **each**. Measurement and payment and the Work included and required by this item are described herein, on the plans and according to the MDOT 2020 Standard Specifications for Construction.

This work will be performed at locations where required and as shown on the construction drawings.

Live Tap, 12 inch by 16 inch

This bid item shall be paid for at the Contract Unit Price per **each**. Measurement and payment and the Work included and required by this item are described herein, on the plans and according to the MDOT 2020 Standard Specifications for Construction.

This work will be performed at locations where required and as shown on the construction drawings.

Gate Box, Adj, Case 1

This bid item shall be paid for at the Contract Unit Price per **each**. Measurement and payment and the Work included and required by this item are described herein, on the plans and according to the MDOT 2020 Standard Specifications for Construction.

This work will be performed at locations where required and as shown on the construction drawings.

Water Main, DI, 12 inch, Tr Det G

This bid item shall be paid for at the Contract Unit Price per **lineal foot**. Measurement and payment and the Work included and required by this item are described herein, on the plans, and in section 02663.

This work will be performed at locations where required and as shown on the construction drawings.

Water Main, DI, 8 inch, Tr Det G

This bid item shall be paid for at the Contract Unit Price per **lineal foot**. Measurement and payment and the Work included and required by this item are described herein, on the plans, and in section 02663.

This work will be performed at locations where required and as shown on the construction drawings.

Bend, 12 inch, 22.5 degree, DI MJ

This bid item shall be paid for at the Contract Unit Price per **each**. Measurement and payment and the Work included and required by this item are described herein, on the plans, and in section 02663.

This work will be performed at locations where required and as shown on the construction drawings.

Bend, 12 inch, 45 degree, DI MJ

This bid item shall be paid for at the Contract Unit Price per **each**. Measurement and payment and the Work included and required by this item are described herein, on the plans, and in section 02663.

This work will be performed at locations where required and as shown on the construction drawings.

Hydrant, 6 inch, Standard

This bid item shall be paid for at the Contract Unit Price per **each**. Measurement and payment and the Work included and required by this item are described herein, on the plans, and in section 02671.

This work will be performed at locations where required and as shown on the construction drawings.

Reducer, 12 inch X 8 inch, DI MJ

This bid item shall be paid for at the Contract Unit Price per **each**. Measurement and payment and the Work included and required by this item are described herein, on the plans, and in section 02663.

This work will be performed at locations where required and as shown on the construction drawings.

Tee, 12 inch, X 6 inch, DI MJ

This bid item shall be paid for at the Contract Unit Price per **each**. Measurement and payment and the Work included and required by this item are described herein, on the plans, and in section 02663.

This work will be performed at locations where required and as shown on the construction drawings.

Tee, 12 inch, X 8 inch, DI MJ

This bid item shall be paid for at the Contract Unit Price per **each**. Measurement and payment and the Work included and required by this item are described herein, on the plans, and in section 02663.

This work will be performed at locations where required and as shown on the construction drawings.

Tee, 16 inch, X 12 inch, DI MJ

This bid item shall be paid for at the Contract Unit Price per **each**. Measurement and payment and the Work included and required by this item are described herein, on the plans, and in section 02663.

This work will be performed at locations where required and as shown on the construction drawings.

Sanitary Sewer, PVC, 8 inch, Tr Det B2

This bid item shall be paid for at the Contract Unit Price per **lineal feet**. Measurement and payment and the Work included and required by this item are described herein, on the plans and according to the MDOT 2020 Standard Specifications for Construction.

This work will be performed at locations where required and as shown on the construction drawings.

Sanitary Sewer, PVC, 12 inch, Tr Det B2

This bid item shall be paid for at the Contract Unit Price per **lineal feet**. Measurement and payment and the Work included and required by this item are described herein, on the plans and according to the MDOT 2020 Standard Specifications for Construction.

This work will be performed at locations where required and as shown on the construction drawings.

Sanitary Structure, 48 inch dia

This bid item shall be paid for at the Contract Unit Price per **each**. Measurement and payment and the Work included and required by this item are described herein, on the plans and according to the MDOT 2020 Standard Specifications for Construction.

This work will be performed at locations where required and as shown on the construction drawings.

Sanitary Structure, Tap, 12 inch

This bid item shall be paid for at the Contract Unit Price per **each**. Measurement and payment and the Work included and required by this item are described herein, on the plans and according to the MDOT 2020 Standard Specifications for Construction.

This work will be performed at locations where required and as shown on the construction drawings.

Sanitary Structure Cover, Adj, Case 2

This bid item shall be paid for at the Contract Unit Price per **each**. Measurement and payment and the Work included and required by this item are described herein and on the plans.

This work will be performed at locations where required and as shown on the construction drawings.

END OF SECTION

SECTION 00800

GENERAL SUPPLEMENTARY CONDITIONS

PART 1 INSURANCE

1.1 Insurance Required of the Contractor

- A. Prior to commencement of the work, the Contractor shall purchase and maintain during the term of the project such insurance as will protect him, the Owner, and the Engineer from claims arising out of the work described in this contract and performed by the Contractor, Subcontractor(s) or Sub-Subcontractor(s) consisting of the below listed policies.

1.2 Worker's Compensation Insurance

- A. Worker's Compensation insurance including Employer's Liability to cover employee injuries or disease compensable under the Workers' Compensation Statutes of the states in which work is conducted under this contract; disability benefit laws, if any; or Federal compensation acts such as U. S. Longshoremen or harbor Workers', maritime Employment, or Railroad Compensation Act(s), if applicable.
- B. Self-insurance plans approved by the regulatory authorities in the state in which work on this project is performed are acceptable.

1.3 Comprehensive General Liability

- A. A Comprehensive General Liability policy to cover bodily injury to persons other than employees and for damage to tangible property, including loss of use thereof, including the following exposures:
 - 1. All premises and operations
 - 2. Explosion, collapse and underground damage
 - 3. Contractor's Protective coverage for independent contractors or subcontractors employed by him.
 - 4. Contractual Liability for the obligation assumed in the Indemnification or Hold Harmless agreement found hereinafter.
 - 5. The usual Personal Injury Liability endorsement with no exclusions pertaining to employment.
 - 6. Products and Completed Operations coverage. This coverage shall extend through the contract guarantee period.
- B. Additional Insured Requirements:
 - 1. Coverage shall be Primary and Non-contributory and Waiver of Subrogation applies.
 - 2. The policy shall include an endorsement which includes the following as additional insured's:
 - a. The Owner, their council, members, Board members, public officials, consultants, agents, and employees
 - b. The "Engineer"
Hubbell, Roth & Clark, Inc.

Bloomfield Hills, Michigan
Their owners, directors, officers, consultants, agents, and employees

1.4 Comprehensive Automobile Liability

- A. A Comprehensive Automobile Liability policy to cover bodily injury and property damage arising out of the ownership, maintenance or use of any motor vehicle, including owned, non-owned and hired vehicles and including Michigan “No Fault” coverage.
- B. In light of standard policy provisions concerning (a) loading and unloading and (b) definitions pertaining to motor vehicles licensed for road use vs. unlicensed or self-propelled construction equipment, it is strongly recommended that the Comprehensive General Liability and the Comprehensive Auto Liability be written by the same insurance carrier, though not necessarily in one policy.
- C. Additional Insured Requirements:
 - 1. Coverage shall be Primary and Non-contributory
 - 2. The policy shall include an endorsement which includes the following as additional insured’s:
 - a. The Owner, their council, members, Board members, public officials, consultants, agents, and employees
 - b. The “Engineer”
Hubbell, Roth & Clark, Inc.
Bloomfield Hills, Michigan
Their owners, directors, officers, consultants, agents, and employees

1.5 Owner's & Contractors Protective Liability Policy

- A. The Contractor shall purchase for the Owner, a separate Owner's Protective Liability policy to protect the Owner, the Engineer, their consultants, agents, employees and such public corporations in whose jurisdiction the work is located, for their contingent liability for work performed by the Contractor, the Subcontractor(s) or the Sub-Subcontractor(s) under this contract.
- B. Purchase the Owner's Protective Liability policy in the Owner’s name.
- C. Additional Insured Requirements:
 - 1. The policy shall include an endorsement which includes the following as additional insured’s:
 - a. The “Engineer”
Hubbell, Roth & Clark, Inc.
Bloomfield Hills, Michigan
Their owners, directors, officers, consultants, agents, and employees

1.6 Umbrella or Excess Liability

- A. The Contractor is granted the option of arranging coverage under a single policy for the full limit required or by a combination of underlying policies with the balance provided by an Excess or Umbrella Liability policy equal to the total limit(s) requested.

- B. Umbrella or Excess policy wording shall be at least as broad as the primary or underlying policy(ies) and shall apply both to the Contractor's general liability and to his automobile liability insurance.
- C. Additional Insured Requirements:
 - 1. Coverage shall be Primary and Non-contributory and Waiver of Subrogation applies.
 - 2. The policy shall include an endorsement which includes the following as additional insured's:
 - a. The Owner, their council, members, Board members, public officials, consultants, agents, and employees
 - b. The "Engineer"
Hubbell, Roth & Clark, Inc.
Bloomfield Hills, Michigan
Their owners, directors, officers, consultants, agents, and employees

1.7 Railroad Protective Liability

- A. Where such an exposure exists, as determined by the Owner, the Contractor will provide coverage in the name of each railroad company having jurisdiction over rights-of-way across which work under the contract is to be performed.
- B. Additional Insured Requirements:
 - 1. Coverage shall be Primary and Non-contributory and Waiver of Subrogation applies.
 - 2. The policy shall include an endorsement which includes the following as additional insured's:
 - a. The Owner, their council, members, Board members, public officials, consultants, agents, and employees
 - b. The "Engineer"
Hubbell, Roth & Clark, Inc.
Bloomfield Hills, Michigan
Their owners, directors, officers, consultants, agents, and employees

1.8 Limits of Liability

- A. The required limits of liability for insurance coverage shall be **not less than** the following:
 - 1. Workers' Compensation
 - Coverage A - CompensationStatutory
 - Coverage B - Employer's Liability\$500,000
 - 2. Comprehensive General Liability
 - Bodily Injury and Property Damage\$1,000,000 Each Occurrence
 - Combined Single Limit\$2,000,000 Per Job Aggregate
 -\$1,000,000 Completed Operations Aggregate
 - 3. Comprehensive Automobile Liability
 - Bodily Injury and Property Damage\$1,000,000 Each Accident
 - Combined Single Limit
 - 4. Owner's Protective
 - Bodily Injury and Property Damage\$1,000,000 Per Occurrence
 - Combined Single Limit\$1,000,000 Aggregate
 - 5. Builder's Risk & Installation Floater Cost to replace at time of loss
 - 6. Umbrella or Excess Liability \$2,000,000 Per Occurrence

.....\$2,000,000 Aggregate

7. Insurance - Other Requirements

- a. Notice of Cancellation or Intent Not to Renew: Policies will be endorsed to provide that at least 30 days written notice shall be given to the Owner and to the Engineer, of cancellation of, material change, or intent not to renew (see sample endorsements which follow this Section).

1.9 Evidence of Coverage

- A. Prior to commencement of the work, the Contractor shall furnish to the Owner, Certificates of Insurance in force on the Owner's Form of Certificate provided.
- B. Other forms of Certificate are acceptable only if (1) they include all of the items prescribed in the Owner's Form of Certificate, including agreement to cancellation provisions outlined herein, (2) the Engineer's Project Identification Number, and (3) they have written approval of the Owner and the Engineer.
- C. The Owner reserves the right to request complete copies of policies if deemed necessary to ascertain details of coverage not provided by certificates.
- D. Such policy copies shall be "Originally Signed Copies," and so designated.
 1. Insurance Required for the Contractor
 - a. Workers' Compensation and Employers' Liability
 - b. Comprehensive General Liability-including:
 - 1) All premises and operations.
 - 2) Explosion, collapse and underground damage.
 - 3) Contractor's Protective.
 - 4) Contractual Liability for obligations assumed in the Indemnification-Hold Harmless Agreement of this Contract.
 - 5) Personal Injury Liability.
 - 6) Products and Completed Operations
 - c. Comprehensive Automobile Liability - including owned, non-owned and hired vehicles and Michigan "No Fault" coverage.
 - d. Umbrella or Excess Liability.
 - e. Builders Risk Installation Floater
 - f. Railroad Protective Liability
 2. Insurance Required for the Owner
 - a. Owners' and Contractor's Protective Liability Policy which names as additionally insured the Engineer, their consultants, agents, employees and such public corporations in whose jurisdiction the work is located.
 - b. Refer to sample endorsements which follow this Section.

1.10 Qualification of Insurers

- A. In order to determine financial strength and reputation of insurance carriers, all companies providing the coverages required shall be licensed or approved by the Insurance Bureau of the State of Michigan and shall have a financial rating no lower than XI and a policyholder's service rating no lower than A as listed in A. M. Best's Key Rating Guide, current edition.

- B. Companies with ratings lower than A;XI will be acceptable only upon written consent of the Owner.

1.11 Contract Security

- A. If the Owner is a public entity, the Contractor shall furnish a surety bond (form attached) in an amount at least equal to 100 percent of the contract price as security for the faithful performance of this contract. The Contractor shall furnish, also, a separate surety bond (form attached) in an amount at least equal to 100 percent of the contract price as security for the payment of all persons performing labor on the project under this contract, and furnishing materials in connection with this contract. The surety on each such bond shall be a duly authorized surety company satisfactory to the Owner.
- B. Regardless of whether the Owner is or is not a public entity, the Contractor shall furnish a Maintenance and Guarantee Bond (form attached) covering all work under this contract. The guarantee is to cover a period of one year subsequent to the date of the final estimate, unless otherwise specified.
- C. Surety Companies providing and executing Surety and Guarantee Bonds shall appear on the United States Treasury Departments most current list, Circular 570, as holding certificates of authority as acceptable sureties on federal bonds. The penal sum of such bonds shall not exceed the a company's limitation as stated therein. A surety company shall be licensed in the State in which it provides a bond and in the State where the contract work is to be performed.

1.12 Indemnification

- A. The contractor agrees to indemnify, defend, and save harmless the Owner and the Engineer, their consultants, agents, and employees, from and against all loss or expense (including costs and attorney's fees) by reason of liability imposed by law upon the Owner and the Engineer, their consultants, agents, and employees for damages because of bodily injury, including death at any time resulting there from, sustained by any person or persons or on account of damage to property, including loss of use thereof, arising out of or in consequence of the performance of this work, whether such injuries to persons or damage to property is due, or claimed to be due, to the negligence of the contractor, his subcontractors, the Owner, the Engineer, and their consultants, agents, and employees, **except** only such injury or damage as shall have been occasioned by the sole negligence of the Owner, the Engineer, or their agents, employees or consultants.
- B. The Contractor also agrees to indemnify, defend and save harmless the Owner and the Engineer, their owners, directors, Board members, officers, directors, officials, and council members, consultants, agents and employees, from and against any and all loss or expense (including costs and attorney's fees) for any and all claims or allegations of supervision, inspection or observation activities or services which may arise out of, or in consequence of, the performance of this work.

PART 2 PART 2 – NOT USED

PART 3 PART 3 – NOT USED

END OF SECTION

Client#: 7782		PAVCOR		DATE (MM/DD/YYYY) 04/02/2015			
ACORD™		CERTIFICATE OF LIABILITY INSURANCE					
<p>THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.</p> <p>IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).</p>							
PRODUCER Insurance Agency 24724 Any Street (248) 666-6666 P.O. Box 2067 SomeCity, MI 48037-2067			CONTACT NAME: Insurance Agent name PHONE (A/C, No, Ext): 248 555-5555 FAX (A/C, No): 248 111-1111 E-MAIL ADDRESS: InsuranceAgent@InsuranceGroup.com PRODUCER CUSTOMER ID #:				
INSURED Company ABC 2654 Street Name AnyCity, MI 48183			INSURER(S) AFFORDING COVERAGE INSURER A : Insurance Company 1 INSURER B : Insurance Company 2 INSURER C : INSURER D : INSURER E : INSURER F :		NAIC #		
COVERAGES		CERTIFICATE NUMBER:		REVISION NUMBER:			
<p>THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.</p>							
INSR LTR	TYPE OF INSURANCE	ADDL INSR	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	GENERAL LIABILITY	X	X	MPA00000042433S	11/17/2014	11/17/2015	EACH OCCURRENCE DAMAGE TO RENTED PREMISES (Ea occurrence) \$1,000,000 MED EXP (Any one person) \$100,000 PERSONAL & ADV INJURY \$5,000 GENERAL AGGREGATE \$1,000,000 PRODUCTS - COMP/OP AGG \$2,000,000 GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input checked="" type="checkbox"/> PROJECT <input type="checkbox"/> LOC
	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR <input checked="" type="checkbox"/> X,C,U <input checked="" type="checkbox"/> Contractual						
A	AUTOMOBILE LIABILITY	X	X	BA00000042434S	11/17/2014	11/17/2015	COMBINED SINGLE LIMIT (Ea accident) \$1,000,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$ RETENTION \$
	<input checked="" type="checkbox"/> ANY AUTO <input type="checkbox"/> ALL OWNED AUTOS <input type="checkbox"/> SCHEDULED AUTOS <input checked="" type="checkbox"/> HIRED AUTOS <input checked="" type="checkbox"/> NON-OWNED AUTOS <input checked="" type="checkbox"/> Drive Other Car						
A	UMBRELLA LIAB	X	X	CMB00000042435S	11/17/2014	11/17/2015	EACH OCCURRENCE \$2,000,000 AGGREGATE \$2,000,000 DEDUCTIBLE \$ RETENTION \$
	<input checked="" type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE <input type="checkbox"/> RETENTION						
B	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY	Y/N	N/A	WC0001100555	05/01/2014	04/30/2015	<input checked="" type="checkbox"/> WC STATUTORY LIMITS E.L. EACH ACCIDENT \$500,000 E.L. DISEASE - EA EMPLOYEE \$500,000 E.L. DISEASE - POLICY LIMIT \$500,000
	ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below						
A	Installation Floater	X		MPA00000042433S	11/17/2014	11/17/2015	\$150,000 \$1,000 deductible
DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (Attach ACORD 101, Additional Remarks Schedule, if more space is required) Municipality Name, their council, members, board members, public officials, consultants, agents, and (Please refer to attached Endorsements evidencing the change of policy.)							
CERTIFICATE HOLDER				CANCELLATION			
Municipality Name 18500 Street Name AnyCity, MI 48025				SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS. AUTHORIZED REPRESENTATIVE <div style="text-align: right;">SIGNATURE</div>			

DESCRIPTIONS (Continued from Page 1)

employees, as well as the engineer; Hubbell Roth & Clark, their owners, directors, officers, consultants, agents, and employees are included as Additional Insured per written contract with respect to the general, auto and umbrella liability coverages for the work performed by the named insured for the certificate holder. Insurance is considered primary and non contributing and a waiver of subrogation applies. Should any of the above described policies be cancelled before the expiration date thereof, the issuing Company will mail 30 days prior written notice to the Certificate holder. Endorsements evidencing the change of Policy are attached.

Example only

POLICY NUMBER: TRA 4820287

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

**EARLIER NOTICE OF CANCELLATION
PROVIDED BY US**

This endorsement modifies insurance provided under the following:

BUSINESS AUTO COVERAGE PART
CRIME AND FIDELITY COVERAGE PART
EQUIPMENT BREAKDOWN COVERAGE PART
FARM COVERAGE PART
COMMERCIAL PROPERTY COVERAGE PART
COMMERCIAL INLAND MARINE COVERAGE PART
COMMERCIAL LIABILITY UMBRELLA COVERAGE PART
OWNERS AND CONTRACTORS PROTECTIVE LIABILITY COVERAGE PART
COMMERCIAL GENERAL LIABILITY COVERAGE PART
LIQUOR LIABILITY COVERAGE PART
PROFESSIONAL LIABILITY COVERAGE

SCHEDULE

Number of Days' Notice 30

<u>Name Of Additional Insured Person(s) Or Organization(s)</u>	<u>Location(s) Of Covered Operations</u>

(If no entry appears above, information required to complete this Schedule will be shown in the Declarations as applicable to this endorsement.)

For any statutorily permitted reason other than nonpayment of premium, the number of days required for notice of cancellation, as provided in paragraph 2. of either the CANCELLATION Common Policy Condition or as amended by an applicable state cancellation endorsement, is increased to the number of days shown in the Schedule above.

POLICY NUMBER:

COMMERCIAL GENERAL LIABILITY
CG 20 37 04 13

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

**ADDITIONAL INSURED – OWNERS, LESSEES OR
CONTRACTORS – COMPLETED OPERATIONS**

This endorsement modifies insurance provided under the following:

COMMERCIAL GENERAL LIABILITY COVERAGE PART
PRODUCTS/COMPLETED OPERATIONS LIABILITY COVERAGE PART

SCHEDULE

Name Of Additional Insured Person(s) Or Organization(s)	Location And Description Of Completed Operations
Information required to complete this Schedule, if not shown above, will be shown in the Declarations.	

A. Section II – Who Is An Insured is amended to include as an additional insured the person(s) or organization(s) shown in the Schedule, but only with respect to liability for "bodily injury" or "property damage" caused, in whole or in part, by "your work" at the location designated and described in the Schedule of this endorsement performed for that additional insured and included in the "products-completed operations hazard".

However:

1. The insurance afforded to such additional insured only applies to the extent permitted by law; and
2. If coverage provided to the additional insured is required by a contract or agreement, the insurance afforded to such additional insured will not be broader than that which you are required by the contract or agreement to provide for such additional insured.

B. With respect to the insurance afforded to these additional insureds, the following is added to **Section III – Limits Of Insurance:**

If coverage provided to the additional insured is required by a contract or agreement, the most we will pay on behalf of the additional insured is the amount of insurance:

1. Required by the contract or agreement; or
2. Available under the applicable Limits of Insurance shown in the Declarations;

whichever is less.

This endorsement shall not increase the applicable Limits of Insurance shown in the Declarations.

COMMERCIAL GENERAL LIABILITY
CG 20 33 04 13

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

**ADDITIONAL INSURED – OWNERS, LESSEES OR
CONTRACTORS – AUTOMATIC STATUS WHEN
REQUIRED IN CONSTRUCTION AGREEMENT WITH YOU**

This endorsement modifies insurance provided under the following:

COMMERCIAL GENERAL LIABILITY COVERAGE PART

A. Section II – Who Is An Insured is amended to include as an additional insured any person or organization for whom you are performing operations when you and such person or organization have agreed in writing in a contract or agreement that such person or organization be added as an additional insured on your policy. Such person or organization is an additional insured only with respect to liability for "bodily injury", "property damage" or "personal and advertising injury" caused, in whole or in part, by:

1. Your acts or omissions; or
2. The acts or omissions of those acting on your behalf;

in the performance of your ongoing operations for the additional insured.

However, the insurance afforded to such additional insured:

1. Only applies to the extent permitted by law; and
2. Will not be broader than that which you are required by the contract or agreement to provide for such additional insured.

A person's or organization's status as an additional insured under this endorsement ends when your operations for that additional insured are completed.

B. With respect to the insurance afforded to these additional insureds, the following additional exclusions apply:

This insurance does not apply to:

1. "Bodily injury", "property damage" or "personal and advertising injury" arising out of the rendering of, or the failure to render, any professional architectural, engineering or surveying services, including:

- a. The preparing, approving, or failing to prepare or approve, maps, shop drawings, opinions, reports, surveys, field orders, change orders or drawings and specifications; or
- b. Supervisory, inspection, architectural or engineering activities.

This exclusion applies even if the claims against any insured allege negligence or other wrongdoing in the supervision, hiring, employment, training or monitoring of others by that insured, if the "occurrence" which caused the "bodily injury" or "property damage", or the offense which caused the "personal and advertising injury", involved the rendering of or the failure to render any professional architectural, engineering or surveying services.

2. "Bodily injury" or "property damage" occurring after:

- a. All work, including materials, parts or equipment furnished in connection with such work, on the project (other than service, maintenance or repairs) to be performed by or on behalf of the additional insured(s) at the location of the covered operations has been completed; or
- b. That portion of "your work" out of which the injury or damage arises has been put to its intended use by any person or organization other than another contractor or subcontractor engaged in performing operations for a principal as a part of the same project.

C. With respect to the insurance afforded to these additional insureds, the following is added to

Section III – Limits Of Insurance:

The most we will pay on behalf of the additional insured is the amount of insurance:

1. Required by the contract or agreement you have entered into with the additional insured; or
2. Available under the applicable Limits of Insurance shown in the Declarations;

whichever is less.

This endorsement shall not increase the applicable Limits of Insurance shown in the Declarations.

Example only

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CONDITIONS

This Company binds the kind(s) of insurance stipulated on the reverse side. The Insurance is subject to the terms, conditions and limitations of the policy(ies) in current use by the Company.

This binder may be cancelled by the Insured by surrender of this binder or by written notice to the Company stating when cancellation will be effective. This binder may be cancelled by the Company by notice to the Insured in accordance with the policy conditions. This binder is cancelled when replaced by a policy. If this binder is not replaced by a policy, the Company is entitled to charge a premium for the binder according to the Rules and Rates in use by the Company.

Applicable in California

When this form is used to provide insurance in the amount of one million dollars (\$1,000,000) or more, the title of the form is changed from "Insurance Binder" to "Cover Note".

Applicable in Delaware

The mortgagee or Obligee of any mortgage or other instrument given for the purpose of creating a lien on real property shall accept as evidence of insurance a written binder issued by an authorized insurer or its agent if the binder includes or is accompanied by: the name and address of the borrower; the name and address of the lender as loss payee; a description of the insured real property; a provision that the binder may not be canceled within the term of the binder unless the lender and the insured borrower receive written notice of the cancellation at least ten (10) days prior to the cancellation; except in the case of a renewal of a policy subsequent to the closing of the loan, a paid receipt of the full amount of the applicable premium, and the amount of insurance coverage.

Chapter 21 Title 25 Paragraph 2119

Applicable in Florida

Except for Auto Insurance coverage, no notice of cancellation or nonrenewal of a binder is required unless the duration of the binder exceeds 60 days. For auto insurance, the insurer must give 5 days prior notice, unless the binder is replaced by a policy or another binder in the same company.

Applicable in Nevada

Any person who refuses to accept a binder which provides coverage of less than \$1,000,000.00 when proof is required: (A) Shall be fined not more than \$500.00, and (B) is liable to the party presenting the binder as proof of insurance for actual damages sustained therefrom.

SPECIAL CONDITIONS/OTHER COVERAGES (Cont. from page 1)

consultants, agents, employees,
& such public corporations in whose jurisdiction the work is located.

** Continued From Additional Interests Section **

Hubbell, Roth & Clark, Inc.
555 Hulet Drive; P.O. Box 824
Bloomfield Hills, MI 48303-0824
Type: Additional Insured

Example only

COMMERCIAL GENERAL LIABILITY
CG 20 31 04 13

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

**ADDITIONAL INSURED – ENGINEERS,
ARCHITECTS OR SURVEYORS**

This endorsement modifies insurance provided under the following:

OWNERS AND CONTRACTORS PROTECTIVE LIABILITY COVERAGE PART

A. Section II – Who Is An Insured is amended to include as an additional insured any architect, engineer or surveyor engaged by you, but only with respect to liability for "bodily injury" or "property damage" caused, in whole or in part, by your acts or omissions or the acts or omissions of those acting on your behalf:

1. In connection with your premises; or
2. In the performance of your ongoing operations.

However:

1. The insurance afforded to such additional insured only applies to the extent permitted by law; and
2. If coverage provided to the additional insured is required by a contract or agreement, the insurance afforded to such additional insured will not be broader than that which you are required by the contract or agreement to provide for such additional insured.

B. With respect to the insurance afforded to these additional insureds, the following additional exclusion applies:

This insurance does not apply to "bodily injury" or "property damage" arising out of the rendering of or the failure to render any professional services by or for you, including:

1. The preparing, approving, or failing to prepare or approve, maps, shop drawings, opinions, reports, surveys, field orders, change orders or drawings and specifications; or

2. Supervisory, inspection, architectural or engineering activities.

This exclusion applies even if the claims against any insured allege negligence or other wrongdoing in the supervision, hiring, employment, training or monitoring of others by that insured, if the "occurrence" which caused the "bodily injury" or "property damage" involved the rendering of or the failure to render any professional services by or for you.

C. With respect to the insurance afforded to these additional insureds, the following is added to **Section III – Limits Of Insurance:**

If coverage provided to the additional insured is required by a contract or agreement, the most we will pay on behalf of the additional insured is the amount of insurance:

1. Required by the contract or agreement; or
2. Available under the applicable Limits of Insurance shown in the Declarations;

whichever is less.

This endorsement shall not increase the applicable Limits of Insurance shown in the Declarations.

**CITY OF MUSKEGON
SPECIAL SPECIFICATION
FOR
WATERMAIN & FITTINGS**

1 of 11

HRC/LNM

City of Muskegon

DESCRIPTION:

This special provision defines and describes the methods and materials required to place new watermain and fittings.

MATERIALS:

MATERIALS TO BE ORDERED BY CITY: Watermain pipe, gaskets and hydrants shall be pre-ordered by the City of Muskegon, but not purchased. Once the project has been awarded, the materials may be purchased from the vendor by the contractor for installation on the project. Once the project has been awarded, the contractor shall purchase the pre-ordered material and is fully responsible for the material. The City will provide a copy of the invoices for the material within the proposal. Any required materials for the project that are not included on the invoices will need to be ordered by the contractor.

WATERMAIN: Watermain pipe shall be cement lined ductile iron class 52 with push on joints. Pipe shall be restrained according to the attached PIPE RESTRAINT SCHEDULE with mechanical joints or push-on joints using field lock gaskets. All pipe joints shall be provided with electrical conductivity connections. All watermain shall be NSF 61 approved.

RETAINER GLANDS: Retainer gland Megalug series 1100 or approved equal shall be used for all mechanical joint pipe and fittings. The joint restraint ring and its wedging components shall be made of grade 60-42-10 ductile iron conforming to ASTM A536-84. The wedges shall be ductile iron heat treated to a minimum hardness of 370 BHN. Dimensions of the gland shall be such that it can be used with the standardized mechanical joint bell conforming to ANSI/AWWA C111/A21.11 and ANSI/AWWA C153/A21.53 of the latest revision. Torque limiting twist-off nuts shall be used to insure proper actuation of the restraining wedges. The Retainer Gland shall utilize standard tee head bolts and gasket conforming to ANSI A21.11. The Contractor shall submit to the Engineer a shop drawing or sample for Engineer approval

FITTINGS: Sleeves, Tees, Bends and reducer shall be ductile iron cement lined with mechanical joints conforming to, AWWA C110 and AWWA C111. All mechanical joints shall be restrained with retaining glands.

ELECTRICAL CONDUCTIVITY CONNECTIONS: One of the methods described below must be used to ensure electrical conductivity.

- (a) Serrated Silicon Bronze Wedges

Two per joint for 3" through 12" pipe, four for larger pipe. Each wedge is to be driven into the opening between the plain end and the bell until snug. When four wedges are used, they are inserted side by side, in pairs. Wedges can be used with push-on joints only.

(b) Cable or Strap Bond Conductor

Installation of a cable or strap bond conductor across the joints of push-on and mechanical joint pipe and fittings. The copper cable or strap shall be capable of carrying 150 amps and be of sufficient flexibility to withstand ground and pipe movement after installation.

(c) Conductive Push-On Gaskets

These gaskets may be used in lieu of the wedges. Metal contact strips which are molded or inserted into the gasket must insure positive electrical contact between pipes.

A thorough cleaning of the gasket seating surface should be performed prior to assembly

WATERMAIN SPECIFICATION REFERENCE:

Ductile Iron, Push-On Joint, 3" – 24", AWWA C151

Push-On Joint Detail, AWWA C111

Ductile Iron, Mechanical Joint, 3" – 24", AWWA C151

Mechanical Joint Detail, AWWA C111

Cement Lining, AWWA C104. (Standard Thickness)

Ductile Iron Pipe Wall Thickness Determination, AWWA C150

Ductile Iron Flanged Joint Pipe, 3" – 24", AWWA C151 and AWWA C110

Cast Iron and Ductile Iron Fittings, AWWA C110

Mechanical Joint Fittings, AWWA C110 and AWWA C111

Push-On Joint Fittings, AWWA C110 and AWWA C111

Flanged Fittings, AWWA C110

Flanges, ASA-B16.1 Standard Class 125

Copper Pipe, ASTM Spec B88-55 "Type K"

Retainer Glands, Megalug Series 1100

Fire Hydrants, AWWA C502

CONSTRUCTION METHODS:

WATERMAIN PUSH ON JOINT ASSEMBLY: It is essential that the gasket groove be clean and free of foreign matter prior to lubrication and gasket installation. Wire brushing, wiping or flushing may be required.

The cleaned gasket groove shall be lubricated to make gasket installation easier and to assist in the proper positioning of the gasket. The gasket must be correctly positioned within the groove. Check with fingers to be sure of correct placement. Lubricate the gasket over its entire inner surface; as well as to the level of the plain end. The joint should be assembled with both pipes in reasonably straight alignment. Any deflection should be made after the joint is assembled.

On any field cut pipe, the outside edge must be beveled and smoothed as any sharp

corner may cause gasket damage. Straight alignment is especially important when

assembling field cut pipe. Field inspection by the Engineer must be accomplished before a field cut pipe may be joined.

During cold weather installations, keep gaskets warm prior to placement within the bell, to reduce their stiffness.

Payment for Watermain Push on Joint Assembly shall be included with the payment for each particular size of watermain and fittings installed.

WATERMAIN MECHANICAL JOINT ASSEMBLY: The inside of the bell and the plain end of the pipe must be thoroughly cleaned of all foreign matter and wire brushed if necessary. All surfaces and gaskets should be brushed over with soapy water. A rubber gasket and follower gland should be placed on the plain end "seated" in the mechanical flanged bell; and then the gasket firmly and evenly pressed into the bell. After the gland is in position for bolting, insert all bolts and make all nuts finger-tight. Keeping the plain end centrally located within the bell, begin tightening bolts, bringing all bolts up evenly at all points around the bell flange. Alternate bolts from side to side until all bolts are uniformly tight within the correct range of torque of 75 to 90 foot pounds (4" thru 24" sizes). If effective sealing is not attained at the maximum torque level, the joint should be disassembled and reassembled after thorough cleaning.

Payment for Watermain Mechanical Joint Assembly shall be included with the payment for each particular size of watermain and fittings installed.

WATERMAIN PIPE DEFLECTION: Deflections for obstructions or other purposes shall be governed by these allowable limits in the following table, unless further deflection is allowed by written communication from the Engineer.

DEFLECTION TABLE

Pipe Size	Deflection in inches per 18 foot length	Note: Unrestrained Connections only.
3	24"	
4	24"	
6	20"	
8	15"	
10	15"	
12	15"	
14	10"	
16	10"	
18	8"	
20	8"	
24	6"	

WATERMAIN PIPE CARE: Care shall be taken to keep the interior of the pipe clean and free from dirt and other foreign materials. Bulkheads shall be used at the open ends of the pipe to insure cleanliness, especially at the end of each day's work.

If there is water in the trench, a water-tight plug will be utilized, and the seal must remain in place until the trench is pumped completely dry. The end shall also be plugged whenever the pipe is left unattended. Pipe shall be laid with the bell ends facing in the direction of lying, unless otherwise directed by the Engineer.

Payment for watermain pipe care shall be included with the payment for each particular size of watermain and fittings installed.

HYDROSTATIC TEST: Watermains must be tested for leakage before the work is accepted. The lines shall be tested section by section by use of valves in the line or temporary plugs, but if conditions require, the Engineer may order any series of sections to be tested at one time.

The Contractor shall furnish the pump, gauge and other necessary materials and equipment and labor to properly make the test, which shall be made in the Engineer's or Inspector's presence, and the methods used shall be herein specified. The test shall be made at the high point in the line, which shall be determined by the Engineer.

The section or sections of the line to be tested shall be filled with potable water and the entrained air within the pipe expelled. The line shall be pumped up to a pressure of one hundred and fifty (150) pounds per square inch, and if the gauge holds, the test period shall be considered as started. The lines shall be continuously kept pumped to the specified one hundred and fifty (150) pounds per square inch pressure, for a two hour period, by pumping additional water into the line, and the amount of water so added shall be measured and considered to represent the leakage from the line under test during the testing period.

The leakage under the conditions of the test shall not exceed the values as shown in the following formula:

$$L = \frac{SDP}{148,000}$$

Where:

L= Testing allowance (makeup water), in gallons per hour

S= Length of pipe tested, in feet

D= Nominal diameter of pipe, in inches

P= Average test pressure during the hydrostatic test, in pounds per square inch (gauge)

If the leakage exceeds the specified amount, the line shall be inspected for leaks.

After the line is repaired, the test shall be repeated. Final acceptance of the work shall not be made until the results of the test are satisfactory.

The Contractor shall notify the Engineer of his intent to retest at least 24 hours in advance. However, the Contractor shall not begin the retest until all attempts have been made to correct all defects, and approval for retesting has been given by the Engineer.

The City shall be responsible for all inspection costs for the first two hydrostatic tests of any section. If a section requires a third hydrostatic retest, the Contractor may be held liable for such inspection costs incurred by the City of Muskegon personnel.

The payment for hydrostatic testing shall be included in the payment for Watermain, DI, ___ inch, Tr Det G, Modified. No separate payment will be made for testing.

CLEANING AND DISINFECTING WATERMAIN: All valves shall be operated by Water Department personnel only. After the hydrostatic tests have been satisfactorily completed the pipe lines shall be cleaned and flushed by introducing water from the city water mains into the completed line and the water allowed to flow from the far end of the section flushed until it runs clear. Before the main is chlorinated, it shall be flushed with potable water to remove air pockets and particulates. The flushing velocity in the main shall not be less than 3.0 ft./sec in accordance with AWWA C651 section 4.4.2. Each section tested shall be flushed separately.

After cleaning and flushing, the pipe line shall be disinfected by introducing liquid chlorine or calcium hypochlorite solution into the mains with methods and equipment approved by the Engineer. The solution shall remain in the lines for a period of at least 24 hours. The liquid chlorine, or calcium hypochlorite solution containing not less than 10,000 PPM (one percent) of available chlorine, shall be introduced into the main through a corporation cock inserted in the horizontal axis of the pipe. The point of application shall be at the end of the section of the main where water from the existing water distribution system is available. A hydrant, valve or corporation cock at the far end of section treated shall be opened and water allowed to flow through the mains by opening a valve at the water supply end or by other means approved by the Engineer.

The chlorine or calcium hypochlorite solution shall be introduced into the main continuously while water is flowing, and the water pressure shall not exceed 20 pounds per square inch during the application of disinfectant.

The water shall be allowed to flow and the application of disinfectant continued until water flowing from the far end of section being treated shows a residual chlorine content of at least 50 parts per million when testing with an appropriate indicator. Each hydrant, valve and other lateral connection shall be flushed separately and following this operation all valves and hydrants shall be discontinued when the flow of water is stopped. The water so treated shall remain in the section under treatment for at least 24 hours with a chlorine residual of at least 10 PPM after that time. After the expiration of this period, the mains shall be flushed with water from the existing supply and water allowed to flow until the residual chlorine content does not exceed 2 parts per million or a residual acceptable to

the City of Muskegon Department of Public Works, when tested with an appropriate indicator. An initial set of samples will be taken at this time and resampled after a minimum of 16 hours. Sets of samples shall be collected every 1200 Ft of the new watermain, plus one set from the end of the line and at least one set from each branch greater than one pipe length. Samples of water will be used to preform bacteriological analysis to determine the purity of the water.

The Contractor shall notify the Engineer at least 48 hours in advance of his intent to begin disinfection. Upon completion of the analysis of the water samples, the Engineer will notify the Contractor whether or not the results are satisfactory. If the results are not satisfactory, the Contractor shall repeat the cleaning and disinfection process until the results of the analysis are satisfactory.

When relieving the watermain of water, the Contractor shall provide, install and maintain adequate equipment and materials to create dry working conditions at the construction site. Drainage discharge location shall be approved by the Engineer. The Contractor shall ascertain the availability and adequacy of the discharge point. Damage to receiving sewers or other property, Public or Private, will be the responsibility of the Contractor.

Calcium hypochlorite for disinfecting watermains shall be of the high test type, in powder form and shall have from 65 percent to 70 percent available chlorine. High test hypochlorite must first be made in a paste and then thinned with potable water to a 10,000 PPM solution.

The preparation of a one percent solution (10,000 PPM) requires 1 pound of 65 to 70 percent available chlorine hypochlorite to 10 gallons of potable water. Solution must be mixed in a wooden barrel or plastic.

Cost of collecting samples and laboratory analysis shall be paid for by the City of Muskegon, up to a maximum of two tests per section. Any additional testing will be at the Contractors expense.

The payment for cleaning and disinfecting watermain shall be included in the payment of the Watermain, DI, ___ inch, Tr Det G, Modified. No separate payment will be made for cleaning and disinfecting watermain.

WATERMAIN ELECTRICAL CONDUCTIVITY: All ductile iron watermain and fittings furnished and installed under this contract shall be provided with electrical conductivity connections. Electrical conductivity connections shall be of one of the three methods described in the materials section of this special provision. After installation of the mains, backfilling and the hydrostatic pressure tests are completed, the system (pipe line and hydrants) shall be tested for electrical continuity and current capacity. It is imperative that all lines and appurtenances be filled with water prior to conductivity testing. The line will be tested in sections between hydrants. The hydrants and hydrant valves will be opened to bleed off any air in the lead. The hydrant will then be closed and the hydrant valve left open. Adjacent hydrants will serve as test section termini. The Contractor will provide electric current of 150 amperes for the tests. Direct current of 150 amperes, shall be

passed through the pipe line for a period of five minutes. Current flow through the pipe shall be measured continuously on a suitable ammeter and shall remain steady without interruption or excessive fluctuation throughout the five minute test. Insufficient current or intermittent current or arcing, indicated by large fluctuations of the ammeter needle, shall be evidence of defective electrical contact in the pipe line. The cause shall be isolated and corrected. Thereafter, the section in which the defective test occurred shall be retested as a unit and shall meet the test requirements to the satisfaction of the Engineer.

All electrical connections shall be capable of carrying 60 amps. Any pipe cut and repaired with couplings shall have electrical connections.

In addition, at the time the joint is made the Contractor shall test the joint for contact effectiveness. The actual conductivity test shall be run concurrently with the Hydrostatic Test.

The payment for testing the electrical conductivity of the new watermain shall be included in the payment of the Watermain, DI, ___ inch, Tr Det G, Modified. No separate payment will be made for electrical conductivity testing.

WATERMAIN CONNECTIONS: After new watermain has passed test for leakage, conductivity and disinfection the following procedure will be followed to connect the new main to the existing mains

Just prior to assembly, all pipe and fittings shall be disinfected by swabbing with a 1% Calcium hypochlorite solution. Watermain shall be buried 6 feet below top of curb. Conductivity connections shall be made at each joint. Pipe deflection shall not exceed 15 inches for 8" pipe, and 20" for 6" pipe. All pipe and fittings shall be bedded to the springline and compacted to 95% density using vibratory methods. Subsequent backfill shall be placed in 12" lifts at 95% density. The new pipeline shall be thoroughly flushed out through the adjacent hydrants immediately after backfilling.

Payment for watermain connections shall be included with the payment for each particular size of watermain and fittings used to make connection.

CONTAMINATED SOILS: The engineer is not aware of any contamination, but should we encounter a contaminated area, work shall cease and the specialized gaskets for use in contaminated areas will be used. Refer to AWWA C600 section 4.1 (**Permeation**), for instructions about how to proceed in contaminated work areas.

MEASUREMENT AND PAYMENT:

The completed work WATERMAIN and FITTINGS including all material, labor, and equipment, as measured will be paid at the contract unit price for the following contract items (pay items).

<u>Pay Item</u>	<u>Pay Unit</u>
Watermain, DI, _ inch, Tr Det G, Modified	Foot
Bend, _ inch, 45 Degree, DI MJ	Each
Bend, _ inch, 22.5 Degree, DI MJ	Each
Sleeve, _ inch, Long, DI MJ	Each
Tee, _ inch X _ inch, DI MJ	Each
Reducer, _ inch X _ inch, DI MJ	Each



ETNA SUPPLY - GRAND LEDGE
10801 GRAND RIVER HWY.
GRAND LEDGE, MI 48837
Phone 517 622 8696
Fax 517 622 8334



Acknowledgement

ORDER DATE	ORDER NUMBER
08/03/2022	S104677892
ETNA SUPPLY - GRAND LEDGE 10801 GRAND RIVER HWY. GRAND LEDGE, MI 48837 Phone 517 622 8696 Fax 517 622 8334	PAGE NO.
	1 of 1

SOLD TO:

SHIP TO:

CITY OF MUSKEGON
1350 EAST KEATING
PUBLIC SERVICE BUILDING
MUSKEGON, MI 49442-6106

CITY OF MUSKEGON
1350 EAST KEATING
PUBLIC SERVICE BUILDING
MUSKEGON, MI 49442-6106

CUSTOMER NUMBER	CUSTOMER PO NUMBER	JOB NAME / RELEASE NUMBER	SALESPERSON		
21506	OLTHOFF PROJECT		Kevin Dieleman		
WRITER		SHIP VIA	TERMS	SHIP DATE	FREIGHT ALLOWED
Dalton Potgeter		DIRECT	NET 25TH	08/15/2022	No
ORDER QTY	DESCRIPTION		UNIT PRICE		EXT PRICE
	<div>SHIPPING INSTRUCTIONS</div> <div>DELIVERY DATE:NEXT RUN</div> <div>DELIVERY TIME:B/4 3PM</div> <div>CONTACT NAME:MIKE</div> <div>CONTACT #:231-578-6495</div> <div>ADD'L INSTR:</div>				
1400ft	12" DI PIPE CL52 C/L S.J. (.37 WALL THICKNESS) GASKETS TYPED SEPERATELY		61.000/ft		85400.00
4440ft	8" DI PIPE CL52 C/L S.J. (.33 WALL THICKNESS) GASKETS TYPED SEPERATELY		37.000/ft		164280.00
180ft	6" DI PIPE CL52 C/L S.J.(.31 WALL THICKNESS) GASKETS TYPED SEPARATELY		26.000/ft		4680.00
I Acknowledge this Order *** *** Signature: _____ *** *** Date: _____			Subtotal		254360.00
			S&H Charges		0.00
			Tax		0.00
			Pymt & Disc		0.00
			Amount Due		254360.00



ETNA SUPPLY - GRAND LEDGE
10801 GRAND RIVER HWY.
GRAND LEDGE, MI 48837
Phone 517 622 8696
Fax 517 622 8334



Acknowledgement

ORDER DATE	ORDER NUMBER
08/15/2022	S104677892
ETNA SUPPLY - GRAND LEDGE 10801 GRAND RIVER HWY. GRAND LEDGE, MI 48837 Phone 517 622 8696 Fax 517 622 8334	
PAGE NO. 1 of 1	

SOLD TO:

SHIP TO:

CITY OF MUSKEGON
1350 EAST KEATING
PUBLIC SERVICE BUILDING
MUSKEGON, MI 49442-6106

CITY OF MUSKEGON
1350 EAST KEATING
PUBLIC SERVICE BUILDING
MUSKEGON, MI 49442-6106

CUSTOMER NUMBER	CUSTOMER PO NUMBER	JOB NAME / RELEASE NUMBER	SALESPERSON	
21506	OLTHOFF PROJECT		Kevin Dieleman	
WRITER	SHIP VIA	TERMS	SHIP DATE	FREIGHT ALLOWED
Dalton Potgeter	OT OUR TRUCK	NET 25TH	08/23/2022	No
ORDER QTY	DESCRIPTION		UNIT PRICE	EXT PRICE
	SHIPPING INSTRUCTIONS DELIVERY DATE:NEXT RUN DELIVERY TIME:B/4 3PM CONTACT NAME:MIKE CONTACT #:231-578-6495 ADD'L INSTR:			
13ea	12 AMARILLO FAST-GRIP GASKET		300.000/ea	3900.00
15ea	8 AMARILLO FAST-GRIP GASKET		200.000/ea	3000.00
4ea	6 AMARILLO FAST-GRIP GASKET		150.000/ea	600.00

I Acknowledge this Order

Signature: _____

Date: _____

Subtotal	7500.00
S&H Charges	0.00
Tax	0.00
Pynt & Disc	0.00
Amount Due	7500.00



Quotation

ejco.com

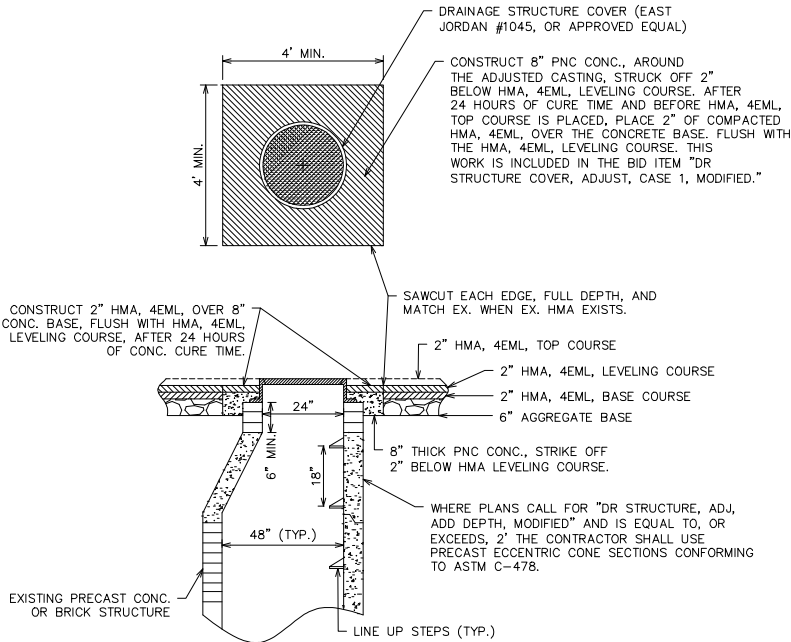
800 626 4653

Account Name	City of Muskegon	Quote Number	00544522
Ship to	1350 East Keating Ave, Muskegon, MI, US, 49442	Quote Name	Hydrant Order 10-7-22
Bill to	Attention Accounts Payable 1350 East Keating Ave, Muskegon, MI, US, 49442	Created Date	10/7/2022
Full Name		Expiration Date	11/6/2022
Business Phone		Prepared by	Mike Vander Molen
Email		Email	mike.vandermolen@ejco.com
Business Fax		Phone	616-538-2040
Close Date	10/7/2022	Fax	616-538-4990

Quantity	Product N°	Description	Notes	Line Charge	Sales Price (USD)	Total Price (USD)
4	55928D	5BR250 Hydrant 6' MJ 2AD 1" Sq 2-13 2 1/2" Muskegon 1-355 5" Storz Red OL	4 MONTH LEAD TIME		3389.88	13559.52

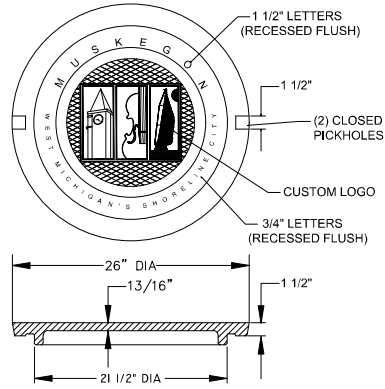
Subtotal 13559.52 USD
Grand Total 13559.52 USD

Notes and Comments



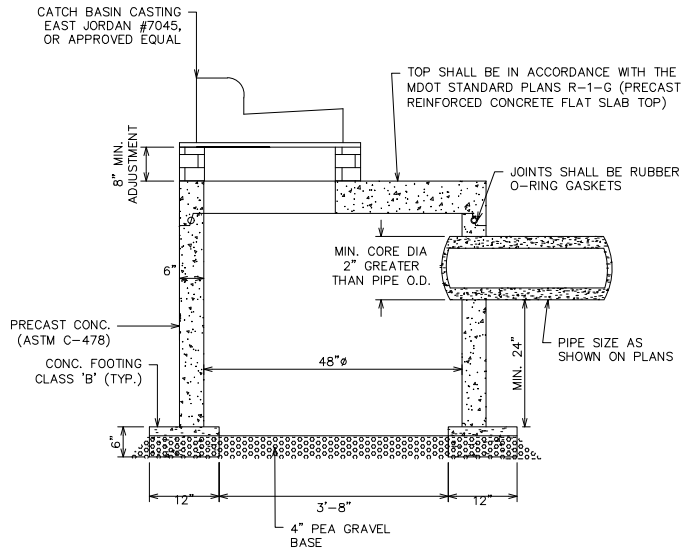
DR STRUCTURE COVER, ADJ, CASE 1, MODIFIED

NO SCALE



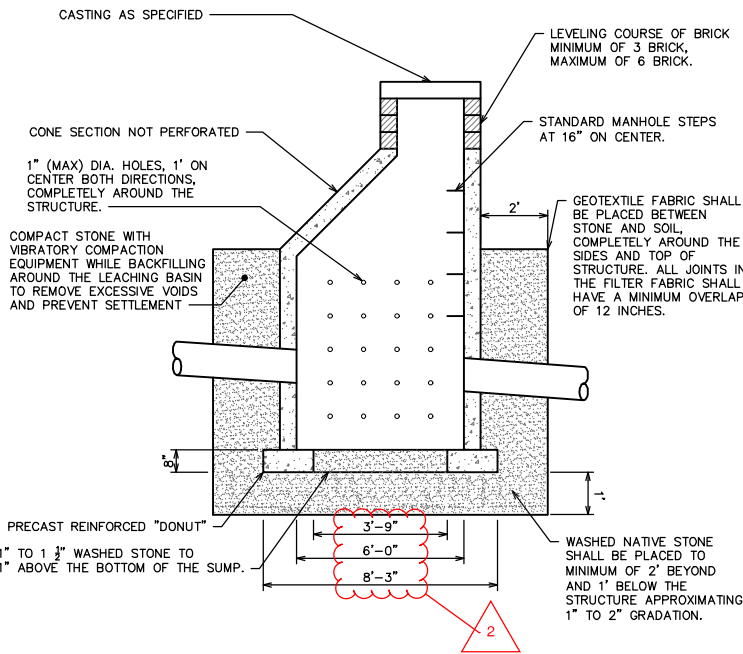
MANHOLE COVER

NO SCALE



CATCH BASIN, SPECIAL, 48 INCH DIA DETAIL

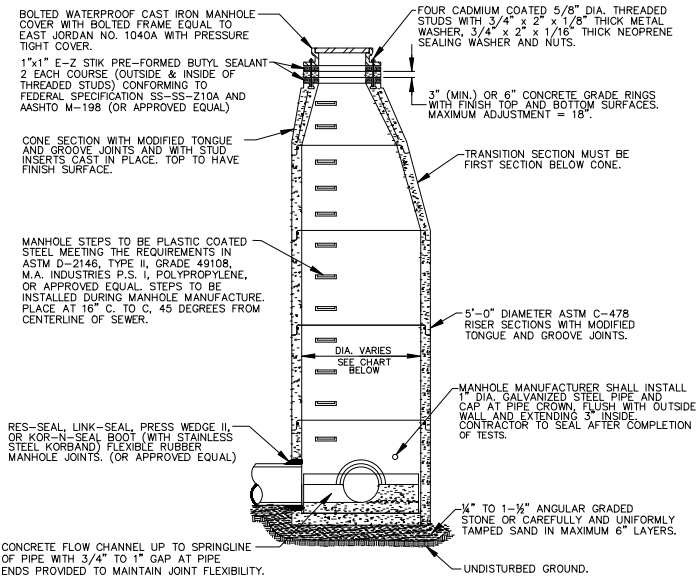
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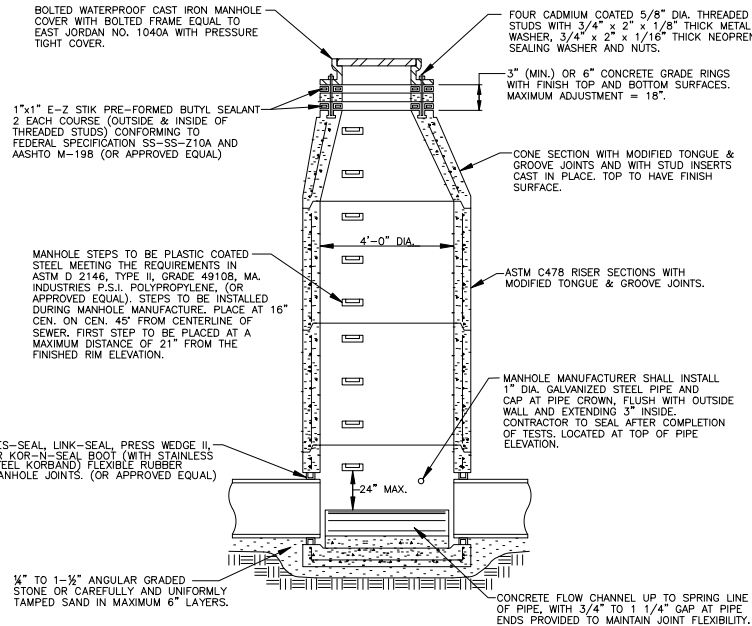
LEACHING BASIN DETAIL

NO SCALE

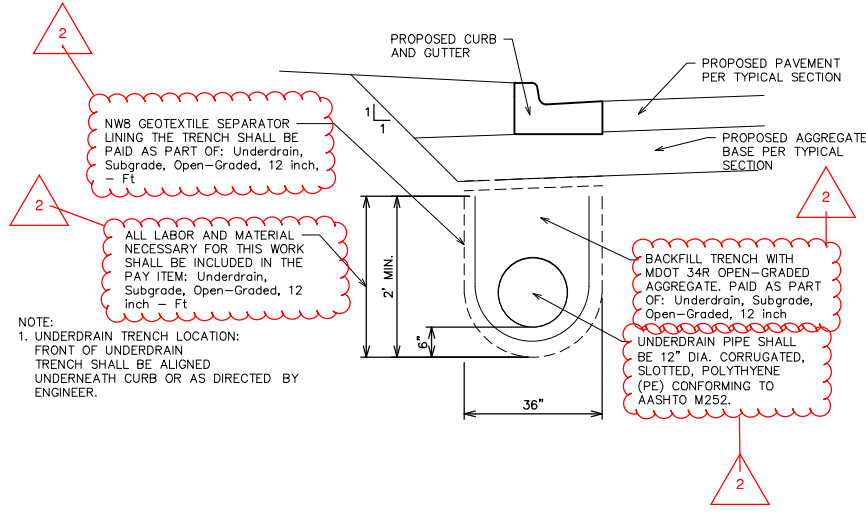
NOTE: ALL ITEMS INCLUDED IN: LEACHING BASIN, 72 INCH DIA



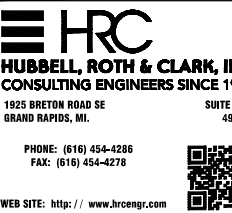
STANDARD OVERSIZED MANHOLE



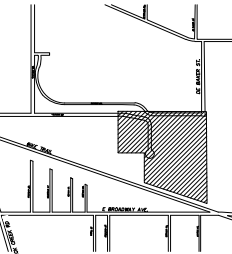
STANDARD MANHOLE



UNDERDRAIN, SUBGRADE, OPEN-GRADED, 12 INCH



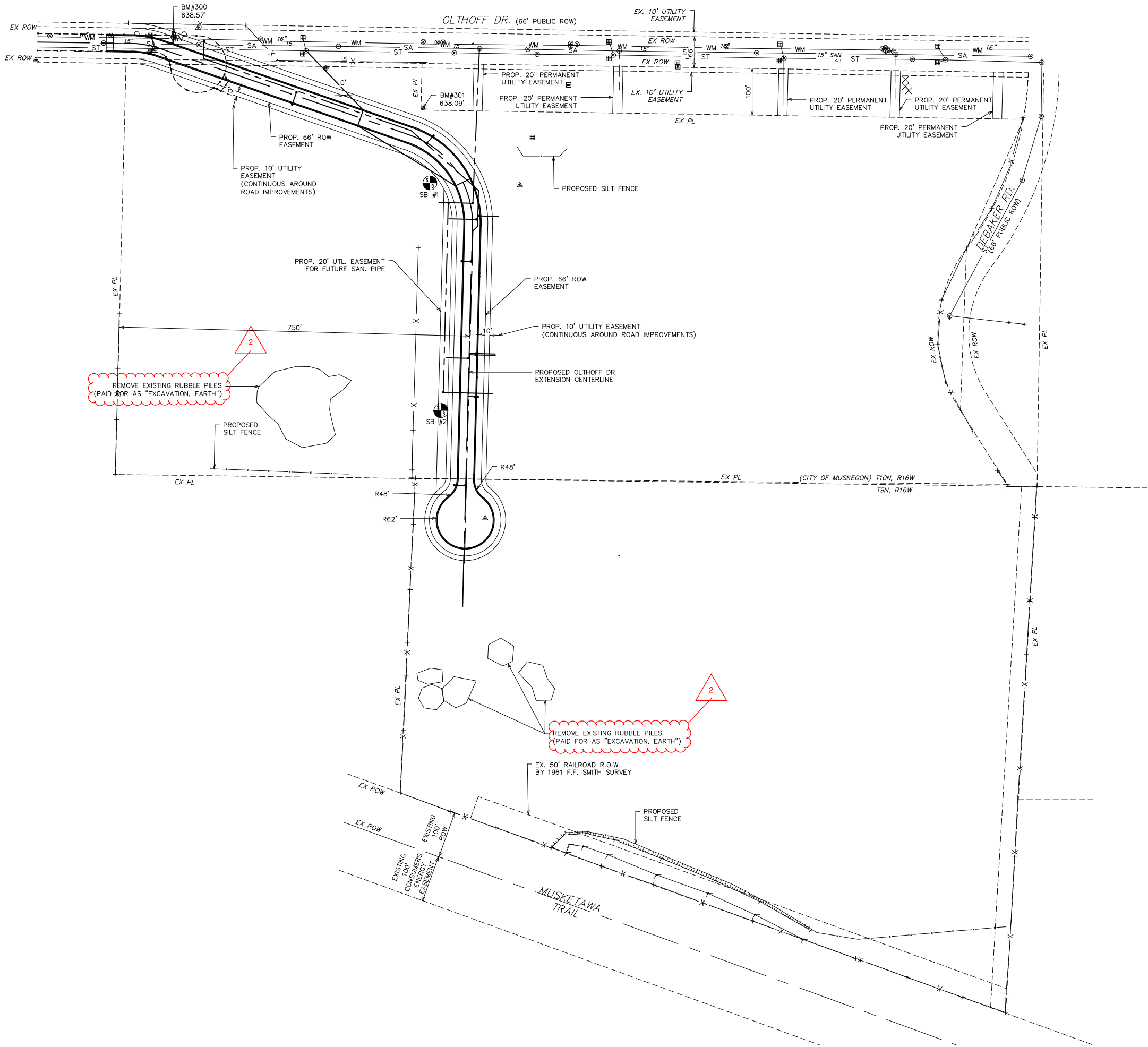
DATE	12/01/2022	ADDENDUM 2
DESIGNED	LNM	
DRAWN	LNM	
CHECKED	RVW	
APPROVED	RVW	



CITY OF MUSKEGON
OLTHOFF DRIVE
EXTENSION

DETAIL SHEET

HRC JOB NO.	20210307	SCALE	
DATE	December 2022	SHEET NO.	4 OF 18



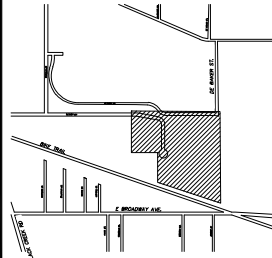
QUANTITIES THIS SHEET

TOTAL	UNIT	DESCRIPTION
1	LSUM	Mobilization, Max
4060	Cyd	Excavation, Earth
1421	Ft	Erosion Control, Silt Fence



HRC
HUBBELL, ROTH & CLARK, INC.
CONSULTING ENGINEERS SINCE 1915
1925 BRETON ROAD, SE SUITE 100
GRAND RAPIDS, MI 49506
PHONE: (616) 454-4286
FAX: (616) 454-4278
WEB SITE: [http:// www.hrcengr.com](http://www.hrcengr.com)

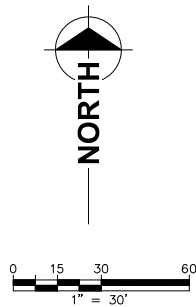
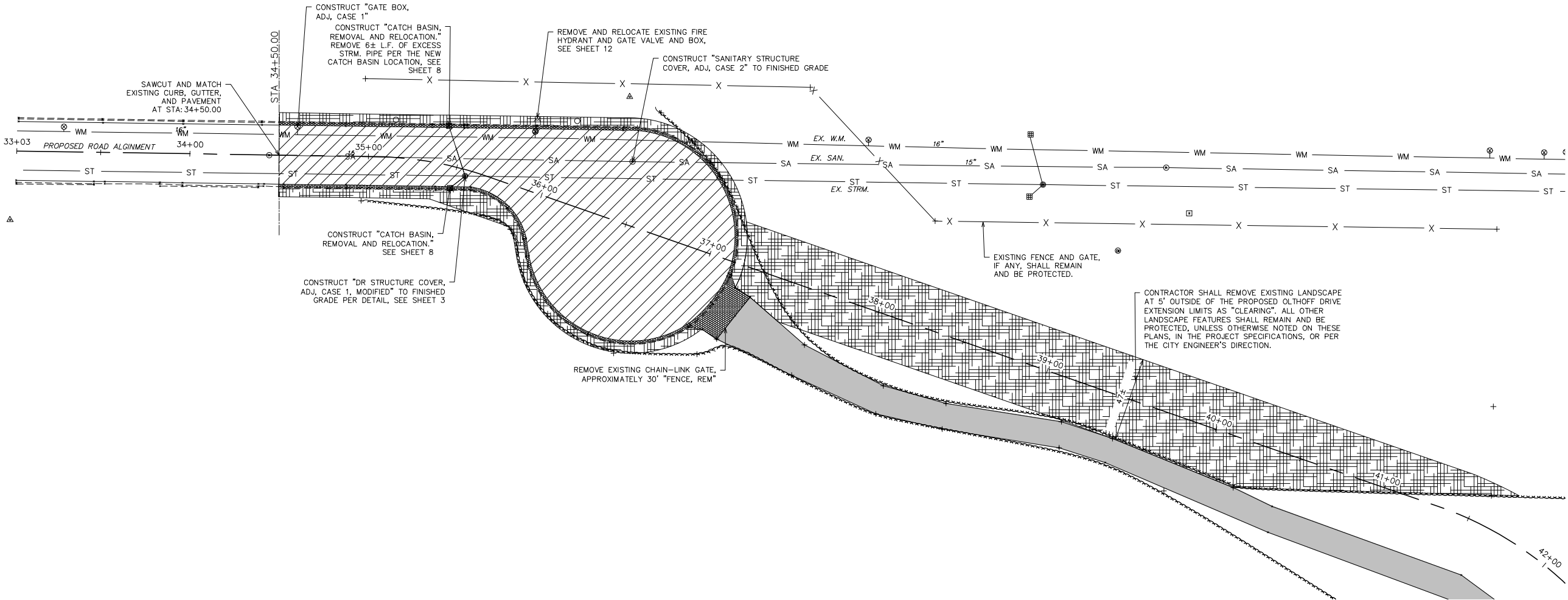
12/01/2022	Addendum 2
DATE	ADDITIONS AND/OR REVISIONS
DESIGNED	LNLM
DRAWN	LNLM
CHECKED	RVW
APPROVED	RVW



CITY OF
MUSKEGON
OLTHOFF DRIVE
EXTENSION

PROPOSED SITE PLAN


HRC JOB NO. 20210307	SCALE 1"=100'
DATE November 2022	SHEET NO. 6 OF 18




REMOVAL LEGEND	
	REMOVE EXISTING PAVEMENT SECTION. (APPROXIMATELY 6" "HMA SURFACE, REM" APPROXIMATELY 6" "EXCAVATION, EARTH"--AB) CONTRACTOR SHALL REMOVE ENOUGH MATERIAL TO ALLOW FULL PROPOSED PAVEMENT SECTION.
	REMOVE EXISTING CONCRETE FEATURE ("CURB AND GUTTER, REM," AND "EXCAVATION, EARTH"--DWY), UNLESS OTHERWISE NOTED ON THESE PLANS, THE PROJECT SPECIFICATIONS, OR PER THE CITY ENGINEERING'S DIRECTION.
	REMOVE EXISTING LANDSCAPE AS "CLEARING".
	REMOVE EXISTING GRAVEL ACCESS ROAD AS "HMA SURFACE, REM" CONTRACTOR SHALL REMOVE THE EXISTING ACCESS ROAD 5' PAST THE LIMITS OF THE PROPOSED CUL-DE-SAC, SEE SHEET 11.

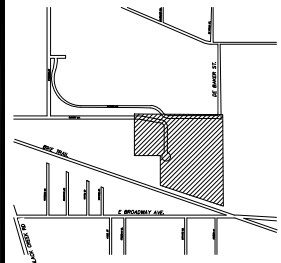
QUANTITIES THIS SHEET		
TOTAL	UNIT	DESCRIPTION
1	Acre	Clearing
6	Ft	Sewer, Rem, Less than 24 inch
630	Ft	Curb and Gutter, Rem
30	Ft	Fence, Rem
265	Cyd	Excavation, Earth
2	Ea	Catch Basin, Removal and Relocation
1	Ea	Dr Structure Cover, Adj, Case 1, Modified
4485	Syd	HMA Surface, Rem
1	Ea	Gate Box, Adj, Case 1
1	Ea	Sanitary Structure Cover, Adj, Case 2



**HUBBELL, ROTH & CLARK, INC**
CONSULTING ENGINEERS SINCE 1915
1925 BRETON ROAD, SE SUITE 100
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PHONE: (616) 454-4286
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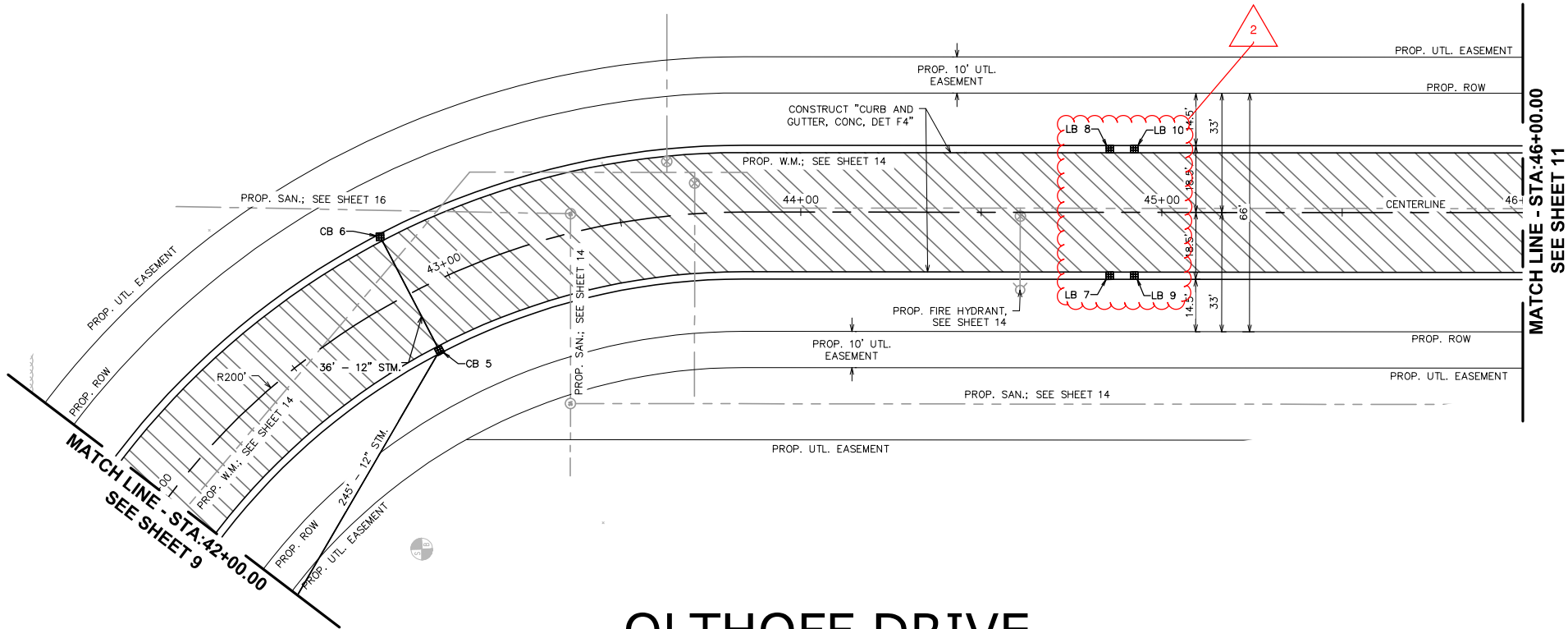
12/01/2022	ADDENDUM 2
DATE	ADDITIONS AND/OR REVISIONS
DESIGNED	LNM
DRAWN	LNM
CHECKED	RVW
APPROVED	RVW



CITY OF
MUSKEGON
OLTHOFF DRIVE
EXTENSION

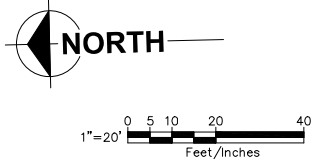
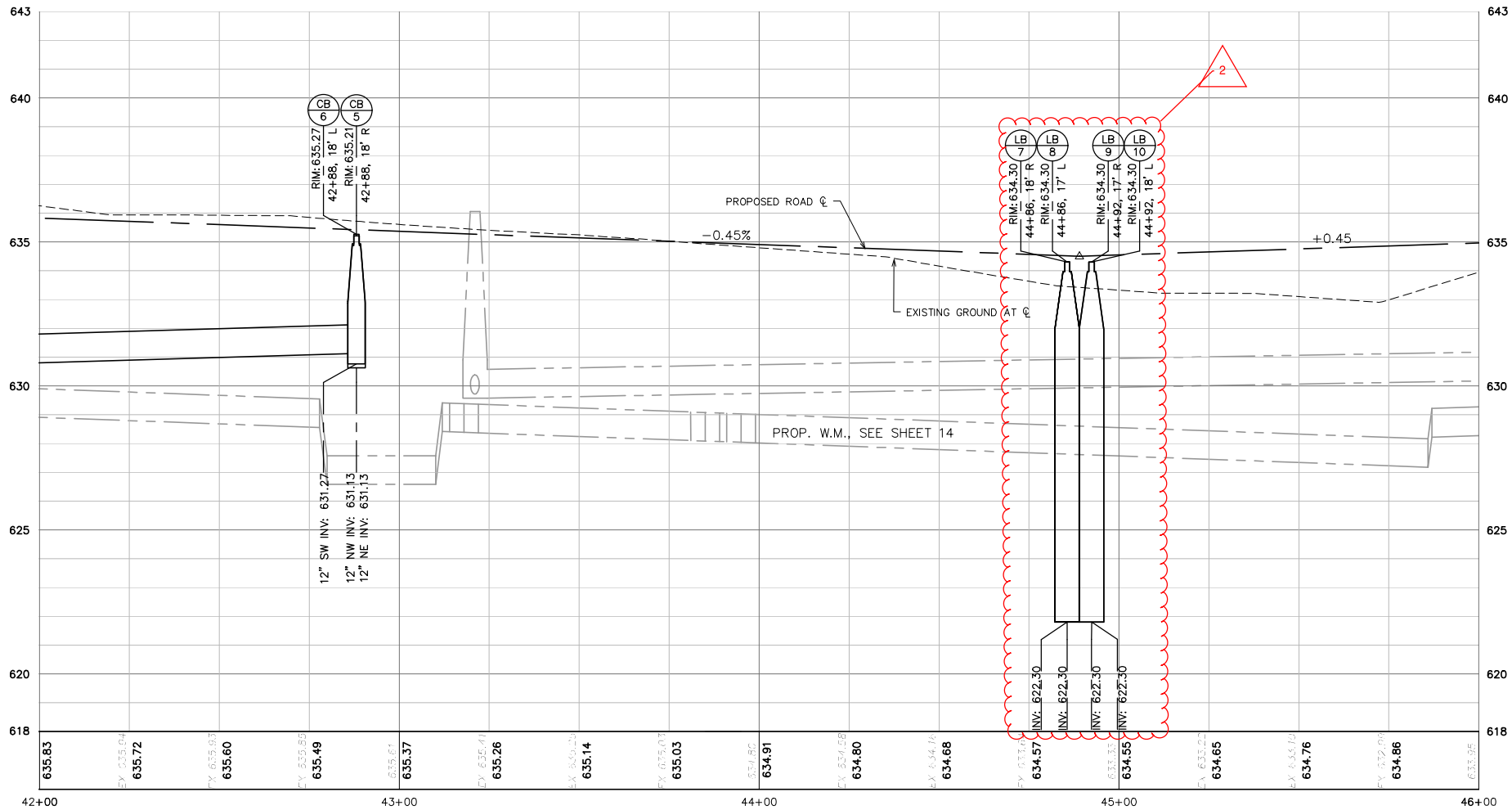
REMOVAL SHEET

HRC JOB NO. 20210307	SCALE 1"=20'
DATE May 2022	SHEET NO. 7 OF 18



OLTHOFF DRIVE

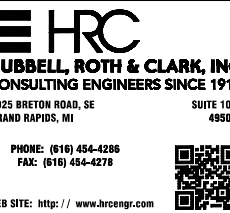
STATIONING BASED ON CENTERLINE



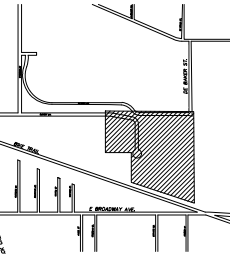
QUANTITIES THIS SHEET		
TOTAL	UNIT	DESCRIPTION
103	Cyd	Embankment, CIP
8	Sta	Machine Grading
1914	Syd	Aggregate Base, 6 inch
78	Ft	Sewer, CI IV, 12 inch, Tr Det A
36	Ft	Sewer, CI IV, 12 inch, Tr Det B
114	Ft	Video Taping Sewer and Culv Pipe
2	Ea	Catch Basin, Special, 48 inch dia
6	Ea	Dr Structure Cover, Type K, Modified
4	Ea	Leaching Basin, 72 inch dia
228	Ft	Underdrain, Subgrade, Open-Graded, 12 inch
509	Ton	HMA, 4EML
801	Ft	Curb and Gutter, Conc, Det F4

CONSTRUCTION LEGEND	
	CONSTRUCT PAVEMENT SECTION 2" HMA, 4EML TOP COURSE 2" HMA, 4EML LEVELING COURSE 2" HMA, 4EML BASE COURSE AGGREGATE BASE, 6 INCH 6" C.N.S. @ 95% MIN. REL. COMP.

STRUCTURE SCHEDULE				
STR. NO.	STATION/OFFSET	STR. DIA.	STR. TYPE	COVER TYPE
CB 5	42+88, 18' R	4.0'	CB	K
CB 6	42+88, 18' L	4.0'	CB	K
LB 7	44+86, 18' R	6.0'	LB	K
LB 8	44+86, 18' L	6.0'	LB	K
LB 9	44+92, 18' R	6.0'	LB	K
LB 10	44+92, 18' L	6.0'	LB	K



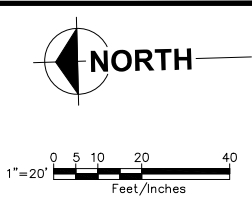
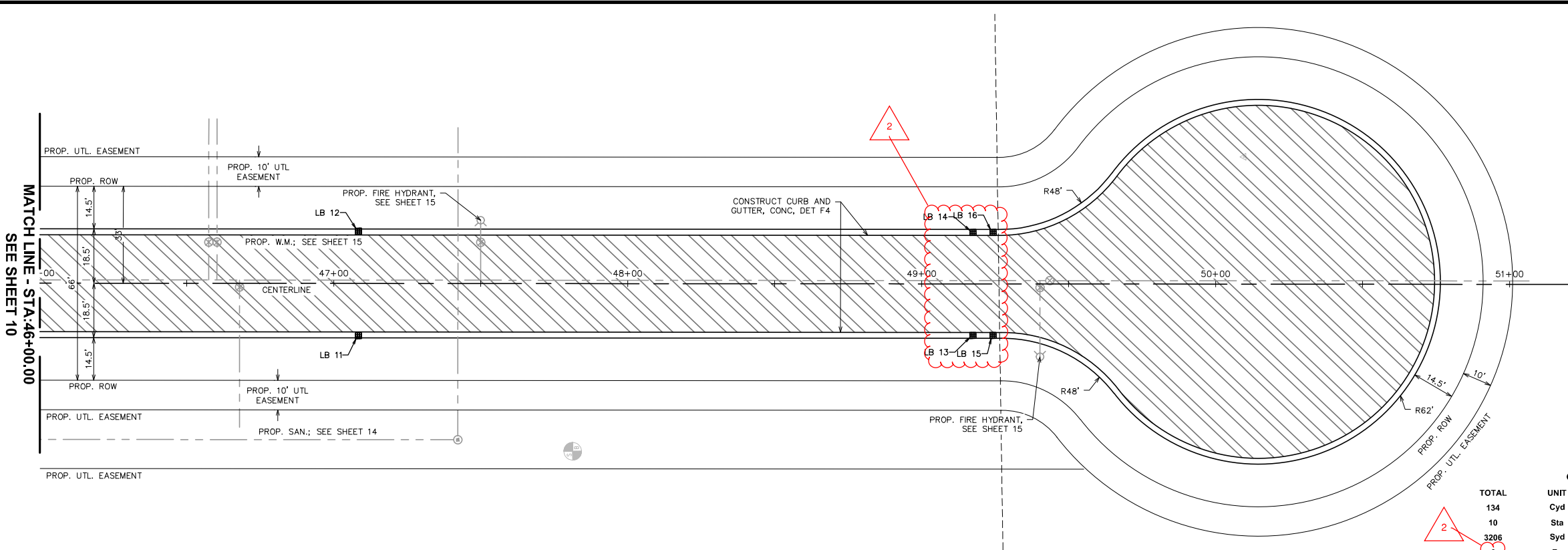
12/01/2022	Addendum 2
DATE	ADDITIONS AND/OR REVISIONS
DESIGNED	LNM
DRAWN	LNM
CHECKED	RVW
APPROVED	RVW



CITY OF MUSKEGON OLTHOFF DRIVE EXTENSION

ROAD IMPROVEMENTS -
STA. 42+00 TO STA. 46+00

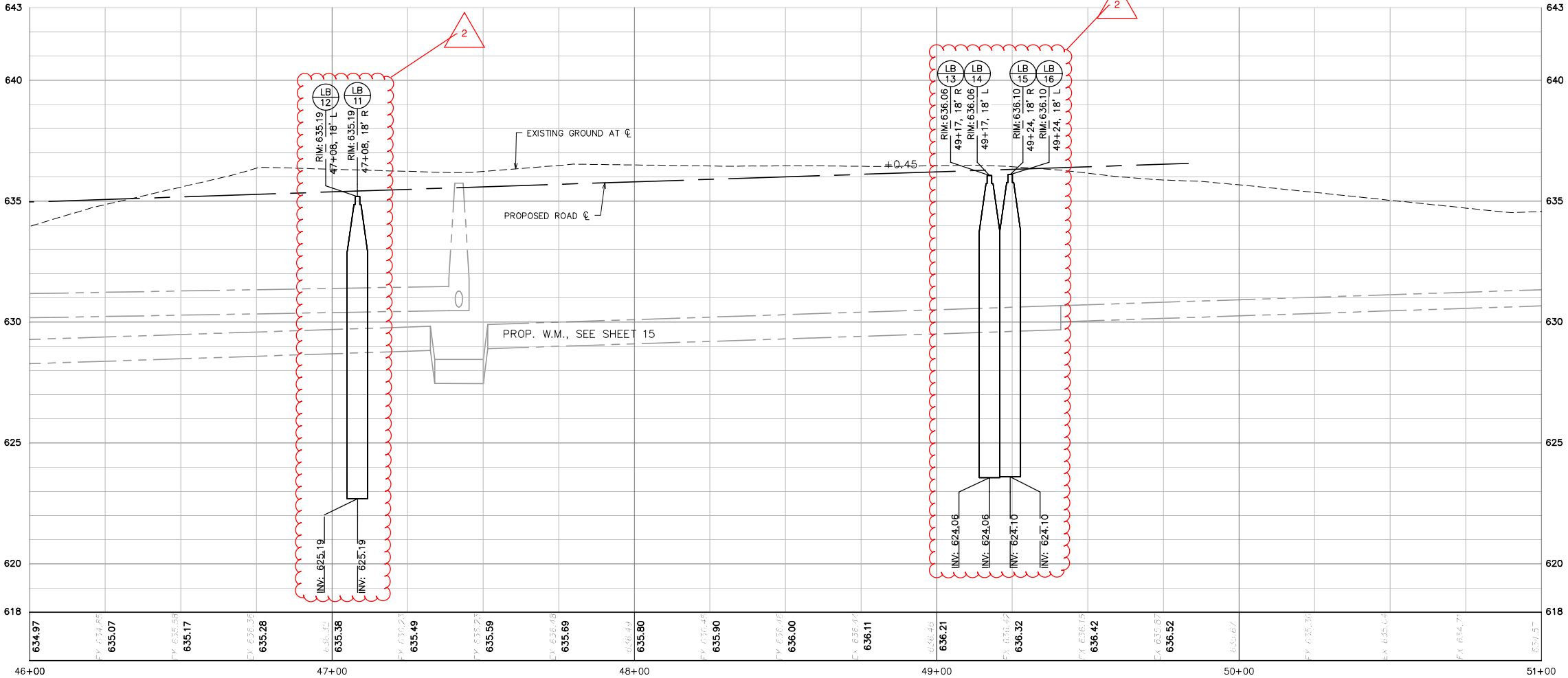
HRC JOB NO. 20210307	SCALE 1"=20'
DATE December 2022	SHEET NO. 10 OF 18



OLTHOFF DRIVE

STATIONING BASED ON CENTERLINE

QUANTITIES THIS SHEET			
TOTAL	UNIT	DESCRIPTION	
134	Cyd	Embankment, CIP	
10	Sta	Machine Grading	
3206	Syd	Aggregate Base, 6 inch	
6	Ea	Dr Structure Cover, Type K, Modified	
6	Ea	Leaching Basin, 72 inch dia	
650	Ft	Underdrain, Subgrade, Open-Graded, 12 inch	
299	Ton	HMA, 4EML	
1045	Ft	Curb and Gutter, Conc, Det F4	



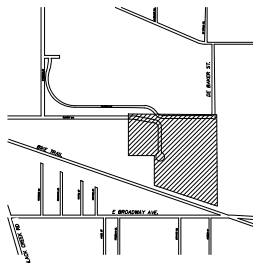
CONSTRUCTION LEGEND	
	CONSTRUCT PAVEMENT SECTION 2" HMA, 4EML TOP COURSE 2" HMA, 4EML LEVELING COURSE 2" HMA, 4EML BASE COURSE AGGREGATE BASE, 6 INCH 6" C.I.S. @ 95% MIN. REL. COMP.

STRUCTURE SCHEDULE				
STR. NO.	STATION/OFFSET	STR. DIA.	STR. TYPE	COVER TYPE
LB 11	47+08, 18' R	4.0'	LB	K
LB 12	47+08, 18' L	4.0'	LB	K
LB 13	49+17, 18' R	6.0'	LB	K
LB 14	49+17, 18' L	6.0'	LB	K
LB 15	49+24, 18' R	6.0'	LB	K
LB 16	49+24, 18' L	6.0'	LB	K



HRC
HUBBELL, ROTH & CLARK, INC.
CONSULTING ENGINEERS SINCE 1915
1925 BRETON ROAD, SE SUITE 100
GRAND RAPIDS, MI 49506
PHONE: (616) 454-4286
FAX: (616) 454-4278
WEB SITE: <http://www.hrcengr.com>

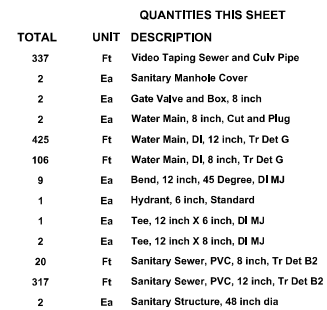
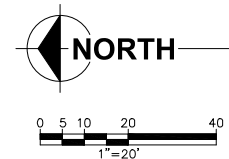
12/01/2022	Addendum 2
DATE	ADDITIONS AND/OR REVISIONS
DESIGNED	LNLM
DRAWN	LNLM
CHECKED	RVW
APPROVED	RVW



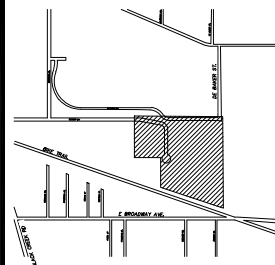
CITY OF MUSKEGON OLTHOFF DRIVE EXTENSION

ROAD IMPROVEMENTS -
STA. 46+00 TO STA. 51+00

HRC JOB NO. 20210307	SCALE 1"=20'
DATE December 2022	SHEET NO. 11 OF 18



12/01/2022	2 Addendum 2
DATE	ADDITIONS AND/OR REVISIONS
DESIGNED	LNM
DRAWN	LNM
CHECKED	RVW
APPROVED	RVW



**CITY OF
MUSKEGON
OLTHOFF DRIVE
EXTENSION**

UTILITY IMPROVEMENTS –
STA.42+00 TO STA.46+00

HRC JOB NO. 20210307	SCALE 1"=20'
DATE November 2022	SHEET NO. 14 OF 18

