



**SIDEWALK REPAIR, EXTENSION AND SAFETY
IMPROVMENTS PROJECT
MQ23-018**

BP23-04

**CITY OF MARQUETTE
CITY ENGINEERS OFFICE
1100 WRIGHT ST.
MARQUETTE, MI. 49855
PH. (906)228-0440**

INVITATION TO BID
BP23-04

MQ23-018 Sidewalk Repair, Extension and Safety Improvements Project

PROJECT DESCRIPTION

A. The work under this contract consists of work throughout the City of Marquette involving the replacement and repair of sidewalk as well as the construction of new sidewalk on the north side of Wright Street between Wilkinson Avenue and Van Evera Avenue*, and signage and striping at multiuse path crossings of Sugarloaf Avenue and Wright Street.

**The proposed sidewalk new construction on Wright Street is subject to pending easements. The City reserves the right to remove this portion of the contract if easements are not obtained.*

PROJECT LIMITS

A. Various locations throughout the City of Marquette per the project plans.

OWNER

City of Marquette
1100 Wright St.
Marquette, MI 49855

ENGINEER

City Engineer's Office, City of Marquette

BID OPENING

Bids must be submitted online through the Bid Express service at www.bidexpress.com. No paper, or emailed bids will be accepted

All bidders must follow all instructions on the Bid Express solicitation. Failure to do so will result in the rejection of the bid proposal. All bids must be received by March 23rd, 2023 at 11:00 am, after which time bids will be opened and read aloud in Room 103 of City Hall at 300 W. Baraga Avenue. Bid tabulations will also be available on Bid Express after the public opening.

DOCUMENTS ON FILE

Contract Documents may be obtained from the Bid Express solicitation at <https://www.bidexpress.com/businesses/47964/home>.

BASIS OF BIDS

Bids solicited on a unit price basis for the work specified.

BID GUARANTY

Each bid will be accompanied by a Bid Bond, payable to the owner, in an amount not less than 5% of the amount of the Bid as a Bid Guaranty. Bid guaranty of the three lowest bidders will be returned after approval of the contract by the Owner. All others will be returned within 48 hours after the Bid Opening.

CONTRACT SECURITY

The successful bidder will be required to furnish a satisfactory Performance Bond and Payment Bond, each in an amount of one hundred percent (100%) of the contract. The bonds shall remain in effect for a period of 1 year beyond the contractor's, subcontractor's, or supplier's last work on the project.

PASS THROUGH PAVEMENT WARRANTY CONTRACT AND BOND

The successful bidder will be required to submit the Pass-Through Warranty Contract, Warranty Bond, and Insurance to the City of Marquette prior to the award of the construction contract to the prime contractor for the work to which the warranty applies. Ensure the warranty contractor is prequalified in the work classification for the type of work to be warranted. The Warranty Bond must guarantee performance of all warranty obligations for the covered work, in accordance with the Warranty Contract. All provisions of the prime contract will be applicable to the warranty contractor regarding the warranty work, except as otherwise expressly provided in the Pass-Through Pavement Warranty Contract.

All other construction items of work are still covered under a 2-year warranty per the contract and specifications.

BID WITHDRAWAL

Withdrawal of any bid is prohibited for a period of 45 days after the actual date of opening thereof.

PRE-BID MEETING

A pre-bid meeting will be held on Wednesday March 8th, 2023, at 11:00am at the Municipal Service Center 1100 Wright Street. Meeting minutes will be included in a project addendum. This meeting will give contractors an update on City construction procedures and project specific items. Contractor attendance is strongly recommended.

PRECONSTRUCTION MEETING

Before any work is commenced under this contract, a preconstruction meeting between representatives of the Contractor, the City Engineering Department, and utility companies shall be held with the Engineering Department. The preconstruction meeting for this project will be held no later than 10 days after contract acceptance by the Marquette City Commission.

CONTRACT TIME

The Contractor shall commence work on the project within ten days of receipt of the notice to proceed. Construction work shall be completed no later than July 28th, 2023. The contractor will be required to follow a phased construction schedule as set forth in the bid documents.

CONTRACT ACCEPTANCE

It is anticipated the contractor will be selected by the Marquette City Commission on April 10th, 2023.

CLARIFICATION

Questions regarding ambiguities or the propriety of these specifications shall be submitted via Bid Express not less than ten (10) days prior to formal bid opening. Such questions will not be entertained after said date.

LIQUIDATED DAMAGES

Should the contractor fail to complete the work specified under this contract by July 28th, 2023, liquidated damages will be assessed at the rate shown in the following table.

Table 1.08-1 Schedule of Liquidated Damages

Original Contract Amount (\$)	Liquidated damages per Calendar Days (\$)
0 to 49,999	200
50,000 to 99,999	400
100,000 to 499,999	600
500,000 to 999,999	900
1,000,000 to 1,999,999	1,300
2,000,000 to 4,999,999	1,550
5,000,000 to 9,999,999	2,650
10,000,000 and above	3,000

PREVAILING WAGES

Effective 28 February 2011, the City of Marquette adopted a Prevailing Wage resolution requiring that all mechanics and/or laborers employed on City construction projects costing in excess of \$65,000 be paid minimum wages as determined by the Secretary of Labor. These prevailing wage requirements will apply to this project if the contractor's total bid price is in excess of \$65,000.

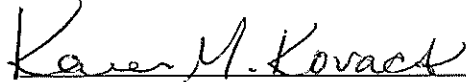
OWNERS RIGHTS

The City reserves the right to reject or accept any or all Bids and Bid Alternates in the best interest of the City of Marquette.

TITLE VI REGULATIONS

The City in accordance with Title VI of the Civil Rights Act of 1964, 78 State.252, 42 USC 2000d to 2000d-4 and Title 49, Code of Federal Regulations, Department of Federally assisted programs of the Department of Transportation issued pursuant to such Act, hereby notifies all bidders that it will affirmatively ensure that in any contract entered into pursuant to this advertisement, minority business enterprises will be afforded full opportunity to submit bids in response to this invitation and will not be discriminated against on the grounds of gender, disability, race, color or national origin in consideration for an award.

CITY OF MARQUETTE, MICHIGAN

A handwritten signature in black ink that reads "Karen M. Kovacs". The signature is written in a cursive style and is positioned above the printed name and title.

Karen M. Kovacs
City Manager

TABLE OF CONTENTS

BP23-04

MQ23-018 SIDEWALK REPAIR, EXTENSION AND SAFETY IMPROVEMENTS PROJECT

Invitation to Bid

CHAPTER 1

1.01	DEFINITION	1-1
1.02	BIDDING REQUIREMENTS AND CONDITIONS	1-4
1.03	EXECUTION AND AWARD OF CONTRACT	1-6
1.04	SCOPE OF WORK	1-7
1.05	CONTROL OF WORK	1-8
1.06	CONTROL OF MATERIALS	1-12
1.07	LEGAL RELATIONS AND RESPONSIBILITY TO PUBLIC	1-15
1.08	PROSECUTION AND PROGRESS	1-19
1.09	MEASUREMENT & PAYMENT	1-22

CHAPTER 2

2.01	PROPOSAL	2-1
2.02	SCHEDULE OF ITEMS	2-2

CHAPTER 3

3.01	CONSTRUCTION CONTRACT	3-1
------	-----------------------	-----

CHAPTER 4

4.01	BID BOND	4-1
4.02	PERFORMANCE BOND	4-2
4.03	PAYMENT BOND	4-4
4.04	CONSENT OF SURETY TO FINAL PAYMENT	4-6
4.05	CONTRACTOR'S AFFIDAVIT OF RELEASE OF LIENS & PAYMENT OF DEBTS & CLAIMS	4-7

CHAPTER 5

5.01	GENERAL DESCRIPTION	5-1
5.02	SCOPE OF WORK	5-1
5.03	CONTROL OF WORK AND CONSTRUCTION PHASES	5-1
5.04	COORDINATING CLAUSE FOR UTILITIES	5-2
5.05	UTILITIES	5-3
5.06	TRAFFIC	5-4
5.07	PRECONSTRUCTION AND PROGRESS MEETINGS	5-5
5.08	NOTICE TO PROCEED	5-6
5.09	PROSECUTION, PROGRESS AND LIQUIDATED DAMAGES	5-6

5.10	CONTRACTOR RESPONSIBILITY FOR HOLIDAY, NIGHT & WEEKEND PROBLEMS	5-7
5.11	RESIDENT NOTIFICATION	5-7
5.12	PRESERVATION OF TREES AND SHRUBBERY	5-8
5.13	RESTORATION OF PRIVATE PROPERTY	5-8
5.14	SUBMITTAL PROCEDURES	5-8
5.15	FORCE ACCOUNT WORK	5-9
5.16	HISTORICAL AND ARCHAEOLOGICAL SIGNIFICANCE	5-9
5.17	NOTIFICATION OF UNSCHEDULED WEEKEND OR OVERTIME WORK	5-9
5.18	DOCUMENTS TO SUBMIT WITH CERTIFIED PAYROLLS	5-10

CHAPTER 6

6.01	RESIDENT NOTIFICATION	6-1
------	-----------------------	-----

CHAPTER 7

7.01	MOBILIZATION	7-1
7.02	DISPOSAL OF SURPLUS AND UNSUITABLE MATERIAL	7-2
7.03	TOPSOIL SURFACE, 4"	7-2
7.04	BITUMINOUS MIXTURES	7-3
7.05	REMOVING PAVEMENT	7-6
7.06	REMOVING SIDEWALK	7-7
7.07	SOIL EROSION AND SEDIMENTATION CONTROL	7-7
7.08	CONTRACTORS WHEN WORKING NEAR NATURAL GAS FACILITIES	7-8
7.09	SIDEWALK RAMP, ADA	7-9
7.10	SOD	7-10
7.11	CONCRETE CURB, GUTTER, AND SIDEWALK	7-12
7.12	QUALITY CONTROL AND ACCEPTANCE OF PORTLAND CEMENT CONCRETE	7-13
7.13	ROOT REMOVAL	7-16
7.14	TRAFFIC CONTROL	7-17
7.15	SIGN, W11-15 W/ FLASHING LED, SOLAR, FLUORESCENT YELLOW	7-18

APPENDIX I PRE-APPROVED MATERIALS LIST

APPENDIX II PREVAILING WAGES

1. CITY OF MARQUETTE PREVAILING WAGE RESOLUTION
2. DAVIS BACON WAGE RATES – GENERAL DECISION MI20230001

APPENDIX III CONCRETE CURBING, SIDEWALK AND DRIVEWAY DETAILS

APPENDIX IV PROJECT LOCATIONS AND PLANS

CITY OF MARQUETTE
CHAPTER 1
GENERAL REQUIREMENTS AND COVENANTS

1.01 DEFINITION OF TERMS

A. Abbreviations

Wherever the following abbreviations are used in these specifications or the plans, they are to be construed in the same as the respective expressions represented:

- AASHTO American Association of State Highway and Transportation Officials
- ANSI American National Standards Institute
- ASTM American Society for Testing and Materials
- MDOT Michigan Department of Transportation

B. Definitions

ADDENDUM (ADDENDA, PLURAL): An Addendum is a document issued by the City prior to the opening of the General Bids which clarifies, amends, or modifies the Bidding Documents or the Contract Documents.

ADVERTISEMENT: The public invitation to bid, as required by law, inviting bids for work to be performed and materials to be furnished.

AUTHORIZATION: The written approval by authority of the City's Engineer or his authorized representative, for changes in or extras to plans or changes in the quantity of work.

AWARD: Formal execution of the contract form by the successful Bidder and the City.

BASE COURSE: The layer or layers of specified or selected material of designed thickness placed on a subbase or a subgrade to support a surface course.

BIDDER: The individual, partnership or corporation, or a combination thereof, formally submitting a proposal for the work contemplated, acting directly or through an authorized representative.

CALENDAR DAY: Every day shown on the calendar beginning and ending at midnight.

CITY: The City of Marquette, Michigan a municipal corporation.

COMMISSION: The City Commission of the City of Marquette.

CONTRACT: The written agreement between the City and the Contractor setting forth the obligations of the parties thereunder. The contract includes the Invitation to Bid,

Information for Bidders, Bidder's Proposal, Contract Form and Contract Bond, Certificates of Insurance, Specifications, Supplemental Specifications, Special Provisions, General and Detailed Plans, Addendum, and Notice to Proceed, also any change orders and agreements which are required to complete the construction of the work in an acceptable manner, all of which constitute one instrument.

CONTRACT BOND: The approved form of security, executed by the Contractor and his Surety or Sureties, guaranteeing execution of the contract and the payment of legal debts pertaining to the construction of the project.

1. *Payment Bond:* The security furnished by the Contractor and his Surety to guarantee payment of the debts covered by the bond.
2. *Performance Bond:* The security furnished by the Contractor and his Surety to guarantee performance of the work in accordance with the contract.

CONTRACT ITEM (PAY ITEM): A specially described item of work for which a unit price is provided in the contract.

CONTRACT TIME: The period of time assigned in the contract, inclusive, from the date of execution of the contract form to the specified completion date or until the specified number of calendar days has elapsed and in each case including authorized extensions of time.

CONTRACT UNIT PRICE: The price provided in the contract for a specifically described item of work.

CONTRACTOR: The individual, partnership or corporation, or any combination thereof undertaking the execution of the work under the terms of the contract and acting directly or through agents or employees.

CULVERT: A structure which provides a total clear span opening of less than 20 feet under a roadbed.

EARTH GRADE: The completely graded roadway before placing the pavement structure.

ENGINEER: The City Engineer or his authorized representative.

ESTIMATE:

1. *Final Estimate:* A compilation of final quantities showing work performed, upon which basis final payment is made.
2. *Progress Estimate:* An estimate made periodically as the work progresses showing estimated work performed and materials furnished and upon which basis periodic payments are made.

EXTENSION OF TIME: The additional contract time authorized by the City beyond the original calendar date, or number of calendar days, specified in the contract.

EXTRA WORK: Any work which is determined to be essential to the satisfactory completion of the contract and which does not appear in the proposal as a specific item of work and which is not included in the price bid for other items in the contract.

INSPECTOR: The authorized representative of the Engineer, assigned to make detailed inspections of the contract performance.

LIQUIDATED DAMAGES: Liquidated Damages are a specified sum of money stipulated by the contract as the amount to be recovered for each day of delay towards the completion of a project. By entering into the Contract, the Contractor agrees with the money stipulated by the contract to be recovered for each day of delay. A day as specified will be defined as a “Calendar Day”.

LOCAL TRAFFIC: That traffic which has origin or destination within the project limits.

MAXIMUM UNIT WEIGHT: Maximum Unit Weight, when used as a measure of compaction or density of soils having a loss by washing greater than 10 percent, shall be understood to mean the maximum unit weight per cubic foot as determined by AASHTO, modified to include all material passing the 1-inch sieve.

SPECIFICATIONS: A general term applied to all directions, provisions and requirements pertaining to performance of the work.

1. Standard Specifications: All requirements and provisions contained in this document of Standard Specifications of the City of Marquette.
2. Supplemental Specifications: Detailed specifications supplemental to or superseding the Standard Specifications.
3. Special Provisions: The special requirements, regulations, or directions prepared to cover work on a particular project not provided by the Standard Specifications or Supplemental Specifications. An addendum is a Special provision.

STANDARD PLANS: Those plans which contain details, of contract items and materials, which are in general use.

SUBBASE: The layer of specified material of designed thickness placed on the subgrade as a part of the pavement structure.

SUBCONTRACTOR: The individual, partnership or corporation, or a combination thereof, undertaking the execution of a part of the work under the terms of the contract, by virtue of an agreement with the Contractor approved by the Engineer.

SUBGRADE: That portion of the earth upon which the pavement structure is to be placed.

SURETY: The legal entity which is bound with, and for the Contractor for the performance of the contract and for the payment of all lawful indebtedness pertaining thereto.

SURFACE COURSE: The top layer of a pavement structure.

TEMPORARY ROAD: A roadway constructed to facilitate the movement of vehicular and pedestrian traffic around a construction operation including appurtenances.

TEMPORARY ROUTE: An existing road over which the traffic is temporarily diverted.

TRAFFIC CONTROL DEVICES: Signs, signals, lighting devices, barricades, barrels, delineators, pavement markings, traffic regulators and all other equipment for protecting and regulating traffic in accordance with the 2011 Michigan Manual of Uniform Traffic Control Devices unless otherwise specified.

TRAFFIC LANE: The portion of the traveled way for the movement of a single line of vehicles.

TRAFFIC REGULATOR: A person assigned to regulate traffic.

TRAVELED WAY: The portion of the roadway for the movement of vehicles, exclusive of shoulders.

WORK: Work shall mean the furnishing of all labor, materials, equipment, and other incidentals necessary or convenient to the successful completion of the project and the carrying out of all the duties and obligations imposed.

WORKING DRAWINGS: Stress sheets, shop drawings, erection plans, falsework plans, framework plans, cofferdam plans, bending diagrams for reinforcing steel, or any other supplementary plans or similar data which the Contractor is required to submit to the Engineer for approval.

WORK ORDER: A written order of contractual status signed by the Engineer and requiring performance by the Contractor.

1.02 BIDDING REQUIREMENTS AND CONDITIONS

A. Bid Schedule Quantities

The quantities appearing in the bid schedule are approximate only and are prepared for the comparison of bids. Payment to the Contractor will be made only for the actual quantities of work performed and accepted or materials furnished in accordance with the contract. The scheduled quantities of work to be done and materials to be furnished may each be increased, decreased, or omitted provided that the total dollar amount of the contract is not changed by more than twenty-five percent. The bid unit prices may be negotiated only if the total contract price is changed by 25% or more.

B. Examination of Plans, Specifications and Site of Work

Bidders shall carefully examine the proposal forms, plans and specifications and inspect the site of the proposed work in order to satisfy themselves, by examination, as to all local conditions affecting the contract and as to the detailed requirements of construction. The submission of a bid shall be considered prima facie evidence that the Bidder has made such examination and is satisfied as to the conditions to be encountered in performing the work and as to the requirements of the plans, specifications, supplemental specifications, special provisions, and contract.

Bidders shall also familiarize themselves with the requirements of all Federal, State and local laws which may directly or indirectly affect the prosecution of the work and the furnishing of the necessary materials.

C. Preparation of Proposal

The proposal shall be electronically signed and all sections completed online through the Bid Express service at www.bidexpress.com. It shall be submitted in its entirety with no modification or changes except as authorized by the Purchasing Agent of the City of Marquette.

D. Irregular Proposals

Proposals will be considered irregular and will be rejected for either of the following reasons:

1. If the proposal does not contain a unit price for each pay item listed except lump sum items.
2. If all required fields and documents are not completed according to the instructions on the Bid Express Solicitation. This includes acknowledging all addendums that have been issued.

Proposals will be considered irregular and may be rejected for any of the following reasons:

1. If the form is altered.
2. If there are unauthorized alternate bids or conditional bids.
3. If there are unauthorized additions to the proposal.
4. If there are irregularities of any kind which may tend to make the proposal incomplete, indefinite, or ambiguous as to its meaning.
5. If the Bidder adds any provisions reserving the right to accept or reject an award, or to enter into a contract pursuant to an award.

E. Proposal Guaranty

No proposal will be considered unless accompanied by a guaranty in the form of a certified check or a bid bond by a surety company registered to do business in the State of Michigan, in an amount not less than five percent of the Bid total.

F. Delivery of Proposal

Bids are to be submitted online through the Bid Express service at www.bidexpress.com. No paper, or emailed bids will be accepted. All proposals must be submitted prior to the deadline specified in the advertisement. More than one proposal for the same project from an individual, partnership or corporation will not be considered.

G. Withdrawal or Revision of Proposal

A Bidder will be permitted to revise, or withdraw their proposal using Bid Express prior to the deadline.

H. Public Opening of the Proposals

Proposals will be checked publicly and the total amount of each bid will be read aloud at the time and place specified in the advertisement. After checking all bids, the unit prices of the determined low bid will be made public using the Bid Express web portal.

1.03 EXECUTION AND AWARD OF CONTRACT

A. Consideration of Proposals

The right is reserved to reject any or all proposals, to waive technicalities, to advertise for new proposals, or to proceed to do the work otherwise, if in the judgement of the City Commission the best interests of the City will be promoted thereby.

B. Execution and Award of Contract

The City Commission will, as soon as practicable after opening of proposals, accept the proposal determined to best promote the interests of the City and reject all other proposals. This acceptance does not constitute the award of the contract. The City Engineer will send notice of proposal acceptance together with the required bond forms to the successful Bidder at the address given on his proposal. Upon receipt of these documents the successful Bidder shall return the completed bond forms to the City Engineer and execute the contract forms with the City prior to the scheduled City Commission meeting. The project will be deemed awarded and a binding contract shall arise only when the contract form has been fully executed by the successful Bidder and approved by the City Commission and executed by the authorized officials of the City.

C. Return of Proposal Guaranty

The proposal guarantees of all except the successful Bidder will be returned promptly following the approval of a proposal by the City Commission. The City will hold the proposal guaranty of the successful Bidder until the contract and bond forms have been fully executed. In the event that all proposals are rejected by the City Commission the proposal guarantees of all Bidders will be returned promptly following such rejection.

D. Requirements of Contract Bond

The successful Bidder shall furnish satisfactory performance and payment bonds each in the amount of not less than 100 percent of the total contract price. Such bonds shall be on the forms provided and shall meet the requirements specified by Michigan law.

E. Failure to Execute Contract

Failure on the part of the successful Bidder to execute the contract form and file satisfactory bonds within a 15-day period shall result in the forfeiture of the proposal guaranty to the City.

1.04 SCOPE OF THE WORK

A. Intent of the Plans, Specifications, and Contract

The intent of the plans, specifications, and contract is to provide for completion of the work in substantial compliance with the details as shown thereon and as described herein. The Contractor shall furnish all labor, materials, equipment, tools, transportation and necessary supplies, and shall perform all operations required to complete the work in accordance with the specifications, and the lines, grades and cross sections provided for on the plans or by authorization.

B. Special Work

Proposed construction or requirements not covered by these specifications will be covered by Supplemental Specifications and Special Provisions contained in the proposal or on the plans.

C. Changes in Quantities, Plans or Character of the Work

The Engineer shall have the right under the contract to make increases and decreases in the quantities, delete work items, and make changes in the plans, in the character of the

work, and the termini of the project, as may be necessary or desirable to insure completion of the contemplated work provided that the sum total of such changes does not change the original contract dollar amount by more than twenty-five percent. Unit bid prices in the proposal will not be revised unless the total contract value is increased or decreased by more than twenty-five percent.

D. Traffic Control

No road or section thereof shall be closed to traffic unless provided on the plans, in the specifications, or permitted by the City Engineer.

Where construction interferes with the normal use of existing roads or sidewalks, the Contractor shall at all times provide facilities for pedestrian ingress and egress for the property adjacent to the work. For local traffic, the Contractor shall limit his occupation of the right-of-way within a reasonable distance of any properties adjacent to the work for which vehicular ingress and egress is denied by the work. The Contractor shall make all necessary arrangements with residents of property affected by the work regarding vehicular and pedestrian access to their respective properties. Contractor shall also make necessary arrangements for emergency vehicular access at all times throughout duration of construction.

E. Final Cleaning Up

Before final acceptance of the work, the Contractor shall remove all falsework, excavated or useless materials, rubbish and temporary buildings, bridges and approaches, replace or renew any fences damaged, and restore in an acceptable manner all property, both public and private, which may have been used or damaged during the prosecution of the work. All excavated material or falsework placed in stream channels during construction shall be removed. The Contractor shall remove from the right-of-way all machinery, equipment, and surplus material and leave all areas occupied by the Contractor in conjunction with the contract in a neat, presentable, and completely restored condition satisfactory to the Engineer.

F. Requirements of Pavement Warranty Bond

The successful Bidder shall furnish a satisfactory pavement warranty bond prior to the scheduled City Commission meeting. The Contractor shall furnish a single term bond worth 5% of the total contract or \$1,000,000, whichever is less, secured in the name of the City of Marquette. Such bond shall be on the form provided and shall meet the requirements specified by Michigan law.

G. Requirements of Pass Through Pavement Warranty Contract

The successful Bidder shall furnish a satisfactory pass through warranty contract prior to the scheduled City commission meeting. Such contract shall be on the form provided and shall meet the requirements specified in the laws of Michigan.

1.05 CONTROL OF THE WORK

A. Authority of Engineer

The Engineer will decide all questions which may arise as to the quality and acceptability of materials furnished and work performed, and as to the manner of performance and rate of progress of the work; all questions which may arise as to the interpretation of the plans and specifications; and all questions as to the satisfactory and acceptable fulfillment of the terms of the contract by the Contractor.

The Engineer shall have authority to suspend the work wholly or in part, for such period or periods as he may deem necessary, due to unsuitable weather or such other conditions as are considered unfavorable for the prosecution of the work or for any other condition or reason deemed to be in the interest of the public. The Contractor shall not suspend the work or remove therefrom equipment, materials, or personnel necessary for the prosecution of the work without permission from the Engineer.

Upon suspension, the work shall be put in proper and satisfactory condition, carefully covered and properly protected. In all cases of Engineer ordered suspension of construction operations, the work shall not be resumed until permitted by written order of the Engineer.

The Contractor shall obtain the written approval of the Engineer for utilization of City owned areas other than street right-of-way for plant operation, materials or stockpiles.

In order to avoid cumbersome and needless repetition of such phrases as "to the Engineer" and "by the Engineer" throughout the Specifications it shall be understood that when an order, instruction, decision, exercise of judgment, or other similar action is indicated, such order, instruction, decision, exercise of judgment, or other similar action will be issued, given, made by, or reserved to the Engineer.

B. Plans and Working Drawings

Plans showing such details as are necessary to give a comprehensive idea of the construction contemplated will be furnished by the Engineer. Dimensions on the contract drawings which are omitted or needed to complete the work will be furnished by the Engineer. The Contractor shall be responsible for all scaled dimensions on the contract drawings.

The Contractor shall submit to the Engineer for review such shop plans or working drawings not furnished by the Engineer as may be required for any part of the finished structure or roadway.

The Contractor may also be required to submit for the Engineer's information working drawings for any falsework, forms, cofferdams or other incidental details required in the construction and not a part of the finished structure. The Contractor shall be fully responsible for the correctness of working drawings.

It shall be the responsibility of the Contractor to have the working drawings or shop plans submitted as early as possible in order to permit the Engineer sufficient time to adequately review them prior to distribution. The Engineer will distribute reproductions of all working drawings or shop plans. The Contractor shall furnish the Engineer with such copies of the working drawings as may be required for review and distribution.

Upon completion of the work, the Contractor shall furnish the City with one complete set of shop plans on reproducible media. Copies of catalogue cuts, parts lists, operating procedures, and instruction, as necessary for the project, shall be furnished by the Contractor when requested.

C. Deviations from the Plans

Deviations from the plans for the work or from working drawings will not be permitted without the written order of the Engineer.

D. Conformity with Plans and Specifications

All work performed and all materials furnished shall be in reasonable close conformity with the lines, grades, cross sections, dimensions, and material requirements, including tolerances, shown on the plans or indicated in the specifications.

In the event the Engineer finds the materials, work performed, or the finished product not within reasonably close conformity with the plans and specifications, he will then determine if the work is to be accepted or rejected. If the work is to be accepted, the Engineer will document the basis of acceptance by contract modifications which will provide for an appropriate adjustment in the contract price, or a guaranty bond, as he deems necessary to conform to his determination based on engineering judgment except where adjustments are shown elsewhere in these specifications.

In the event the Engineer rejects the work, it shall be removed and replaced or otherwise corrected by and at the expense of the Contractor.

E. Coordination of Specifications and Plans

In case of discrepancy, figured dimensions shall govern over scaled dimensions, and the parts of the contract will prevail over all other parts in the following order:

1. Special Provisions
2. Supplemental Specifications
3. Project Plans and Drawings
4. Standard Plans
5. Standard Specifications

The Contractor shall not take advantage of any apparent error or omission in the plans or specifications, but the Engineer shall be permitted to make such corrections and interpretations as may be deemed necessary for the fulfillment of the intent of the plans and specifications.

F. Cooperation by Contractor

The Contractor shall conduct his operations so as to interfere as little as possible with those of other Contractors, utilities, or any public authority on or near the work as shown on the plans or in the proposal. The City reserves the right to perform other work by contract or otherwise, and to permit public utility companies and others to do work on or near the project during progress of the work. The Contractor shall conduct his work and cooperate with such other parties so as to cause as little interference as possible with their operations and as the Engineer may direct.

No additional compensation will be paid to the Contractor for any reasonable delay or inconvenience due to material shortages or reasonable delays due to the operations of such other parties doing the work indicated or shown on the plans or in the proposal, or for any reasonable delays on construction due to the encountering of existing utilities that are shown on the plans.

The Contractor shall have a competent Superintendent or Foreman on the job site at all times when work is being performed. This person shall be authorized to act for the Contractor as his agent on the work and shall have the authority to sign for and agree on daily quantities and any additional work done under force account time. This person shall thoroughly understand the plans and specifications and shall receive instructions from the Engineer. On package projects the prime Contractor shall designate a Project Supervisor authorized to act as his agent and to be responsible for all Subcontractors. The Project Supervisor shall be designated by name prior to commencement of the work and shall be available as required for proper management of the project during the duration of the contract.

The Contractor shall furnish each Subcontractor, Superintendent and Foreman with a copy of that part of the plans and specifications pertaining to the work he is directing.

G. Lines, Grades, and Elevation

The location, alignment, elevation, and grade of the work will be determined by the Engineer who will set such controls as are necessary to properly mark these elements. The Contractor shall assume full responsibility for detail dimensions and elevations measured from the lines, grades, and elevations so established.

The Engineer will provide grade and alignment stakes. The Contractor will be responsible for protecting and transferring these grade and alignment stakes to meet his work schedule. The Engineer will require reasonable advance notice which, if deemed necessary, may be requested in writing when the Contractor's needs are indeterminate or erratic or when the magnitude of the work makes scheduling necessary. Should the Engineer show up to install stakes and the Contractor does not have the site ready, the Contractor shall reschedule with the Engineer at the next available time. If the Contractor cannot wait until the Engineer is available again, it will be the Contractor's responsibility to have the stakes installed at his expense. It will be the Contractor's responsibility to be sure he understands all information contained on the stakes set.

Stakes set by the Engineer shall be carefully preserved by the Contractor. In case such stakes are destroyed by the Contractor, they will be replaced at the Engineer's earliest convenience and at the Contractor's expense on a time and material basis.

Stakes set by the Engineer/Surveyor shall be carefully preserved by the Contractor after the structure has been placed to allow adequate time for location inspection.

The Contractor shall provide such scaffolds, batter-boards, straightedges, templates, or other devices as may be necessary to facilitate laying out and inspecting the work. The Contractor shall have the equipment and labor expertise on site to transfer the lines, grades, and elevations established by the Engineer to meet his own construction schedule.

H. Authority and Duties of Inspectors

Inspectors may be appointed and directed to inspect all materials used and all work done. The inspection may extend to all parts of the work and to the preparation or manufacture of the materials for use in the work. The inspectors will not be authorized to revoke, alter, enlarge, or relax any of the provisions of these specifications, nor change the plans in any particular way. The Inspector will call to the attention of the Contractor any failure to follow the plans and specifications that he may observe. In case of any dispute arising between the Contractor and the Inspectors to the materials furnished or the manner of performing the work, the Inspector shall have the authority to reject materials or suspend the work until the question at issue can be referred to and be decided by the Engineer. In no instance shall any action or omission on the part of the Inspector relieve the Contractor of the responsibility of completing the work in accordance with the plans and specifications.

I. Schedule Requirements

The low bidder(s) for the work covered by this proposal will be required to meet with City of Marquette representatives to work out a detailed progress schedule. The schedule for this meeting will be set within one week after the contract is awarded. The City Engineer will arrange the time and place for the meeting.

The Progress Schedule shall include, as a minimum, the controlling work items for the completion of the project and the planned dates (or work day for a work day project) that these work items will be controlling operations. When specified in the bidding proposal, the date the project is to be opened to traffic as well as the final project completion date shall also be included in the project schedule. If the Bidding Proposal specifies other controlling dates, these shall also be included in the Progress Schedule.

The low bidder for the work covered by this proposal will be required to submit a computer generated CPM (Critical Path Method) network (arrow diagrams) at the preconstruction meeting. The arrow diagram shall be the customary activity-on-arrow type or an approved equal that describes the work activities to be accomplished and their dependency on each other. A sufficient number of activities (tasks) will be required with sufficient detail so the controlling operation can be identified.

Notation of each activity arrow shall include a brief work description and activity time duration. The Contractor shall submit an updated computer-generated CPM network every two weeks for those activities that remain to occur. The Engineer may request that an updated CPM network be submitted more frequently if deemed necessary. Project pay estimates may be delayed if the CPM network is not updated to reflect the progress of the project.

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

1.06 CONTROL OF MATERIALS

A. Quality and Sourced Supply

Only materials or fabricated items conforming to the requirements of the specifications and approved by the Engineer prior to use shall be used in the work. Prior to commencing the work, the Contractor shall furnish to the Engineer a complete written statement of the origin, composition and manufacture of all materials and fabricated items required in the work together with copies of manufacturer's certified test reports, cut sheets, product data or supplier's reports of Michigan Department of Transportation approval for all such materials and fabricated items. Materials shall be approved by the Engineer before installation. Any material installed prior to approval by the Engineer will be at the Contractors expense for both installation and removal of the material. The Contractor will be permitted to change the source of supply only with the prior written approval of the Engineer.

If it is found that a source of supply does not furnish an acceptable and uniform product, or if for any reason the product from any source at any time proves to be unsatisfactory to the Engineer, the Engineer may require the Contractor, fabricator or supplier to furnish acceptable material from other sources and the Contractor shall have no claim for increased cost on account of such requirement.

All structural steel shall be fabricated in the United States unless otherwise shown on the plans or in the proposal.

B. Use of Materials Found on the Work Site

The Contractor may use on the work such stone, gravel, sand, or other material determined suitable by the Engineer, as may be found in the roadway excavation and will be paid both for the excavation of such materials at the corresponding contract unit price and for the pay item for which the excavated material is used in accordance with the pay items listed in the proposal. He shall replace at his own expense with other acceptable material all of that portion of the excavation material so removed and used which was suitable for use as in place material.

The Contractor shall not excavate or remove any material from within the right-of-way which is not within the grading limits, as indicated by the grade lines, without written authorization from the Engineer.

C. Natural Material Sources

Material secured from outside the right-of-way is considered borrow material and is used for such items as embankment, swamp backfill, granular embankment, structure back full, subbase, and trench back fill.

When sources of natural materials are designated on the plans or described in the special provisions, the Contactor shall determine for himself the amount of equipment and work required to produce acceptable material from such sources. It shall be understood that it is not feasible to ascertain from samples the limits or quality of an entire deposit, and that variations shall be considered normal. The Engineer may order procurement of material from any portion of a deposit and may reject portions of the deposit as unacceptable. If the Contactor desires to use material from sources other than those designated, he shall acquire the necessary rights and shall bear all costs related to acquisitions and use of such sources.

When material deposits are not designated on the plans or in the special provisions, the Contractor shall provide material acceptable to the Engineer.

Sites from which material has been removed shall, upon completion of the work, be left in a neat condition.

Payment for work and materials required to build and maintain borrow haul routes will be considered as having been included in the contract unit prices bid for other contract items.

The Contractor will be held liable for all damages caused by his hauling operations and will be required to pay for such damages as specified under Legal Relations and Responsibility to Public, chapter 1.07 below.

Unless otherwise called for on the plans or in the proposal, the Contractor shall furnish the borrow material.

If not otherwise specified, the Contractor-furnished borrow material shall consist of sound mineral soil having a weight of not less than 95 pounds per cubic foot, determined as specified under Maximum Unit Weight definition in this chapter. It shall not include swamp materials such as peat, muck, or other wet or unstable soils. Stones, broken rock, or masonry included as mixtures with soils shall be limited in size and quantity as per the material sieve size specification to allow for proper compaction of the soil.

D. Sample of Materials

Samples upon which acceptance or rejection of material is based will be taken by a representative of the City in accordance with the methods designated in the specifications. The Contractor shall afford such facilities as the Engineer may require for collecting and forwarding samples and shall not use the materials represented by the sample until they have been found to satisfy the requirements of the specifications. The Contractor in all cases shall furnish the required samples without charge and, when required, shall prepay the transportation charges for shipment of samples to the testing laboratory.

E. Tests of Materials

The City reserves the right to conduct random testing of all materials used or proposed to be used in the work. Unless provided elsewhere, all such testing will be at the expense of the City and will be conducted by the City or its designated agent.

The materials used or proposed to be used in the work may be inspected and tested at any time and at any place during their preparation, storage and use, unless otherwise specified. All tests of materials will be made in accordance with methods as described or designated in the specifications.

Unless specifically stated otherwise by date, suffix or both, whenever reference is made to standards of another specifying agency or organization, it shall be understood that the specification, or method, current at the date of advertisement for bids shall apply. Current ASTM specifications, or methods, shall be either Standard or Tentative Standard Specifications, or Methods, but shall not include Tentative Revisions of ASTM Standards.

Additional testing required for areas that have been previously retested due to improper construction methods or materials will require the Contractor to cover the costs of those

tests. These costs will be charged to the Contractor and deducted from any payment due the Contractor.

F. Storage of Materials

Materials shall be so stored as to assure the preservation of their quality and fitness for the work. Items susceptible to damage shall be protected by suitable shelters. Stored materials, even though approved before storage, may again be inspected prior to their use in the work. Stored materials shall be located to facilitate their prompt inspection. Portions of the right-of-way, or other City-owned property approved for the purpose may be used during that phase of the project or the next phase directly abutting that project for storage and for the placing of the Contractor's plant and equipment, but any additional space required therefore must be provided by the Contractor at his expense. Private property shall not be used for storage purposes without written permission of the owner or lessee, and if requested by the Engineer copies of such written permission shall be furnished to him. All storage sites shall be restored to a satisfactory condition by the Contractor at his expense.

Trailers used for equipment storage will be allowed a maximum time of 30 days in the public right of way on any block of construction or block adjoining that construction.

G. Handling Materials

All materials shall be handled in such a manner as to preserve their quality and fitness for the work. Aggregates shall be transported from the storage site to the work in vehicles so constructed and maintained as to prevent loss or segregation of materials after loading and measuring.

All materials not conforming to the requirements of the specifications shall be considered as unacceptable and all such materials will be rejected and shall be removed immediately from the site of the work unless otherwise instructed by the Engineer. No rejected material, the defects of which have been corrected, shall be used until approval has been given.

H. Unused Material

All furnished materials which are not incorporated in the work upon completion of the work items, shall remain the property of the Contractor and shall be removed from the project prior to acceptance of the work.

1.07 LEGAL RELATIONS RESPONSIBILITY TO PUBLIC

A. Laws to be Observed

The Contractor is required to be familiar with all laws, ordinances and regulations which supplement these Standard Specifications or affect the equipment and materials used in the proposed construction, those employed on the work and the conduct of the work, and he shall save harmless and indemnify the City and its representatives against any claim arising from violation thereof.

Pursuant to the requirements of Section 4 of Act No. 251, Public Acts of the State of Michigan of 1955, as amended, Act 45 of the 1963 second extra session, and the State Code of Fair Practices, the Contractor agrees not to discriminate against any employee or applicant for

employment, to be employed in the performance of the contract, with respect to hire, tenure, terms, conditions or privileges of employment, or any matter directly or indirectly related to employment, because of age or sex, except where based on a bona fide occupational qualification, or race, color, religion, national origin, or ancestry. The Contractor further agrees that every subcontract entered into for the performance of the contract will contain a provision requiring nondiscrimination in employment, as herein specified, binding upon each Subcontractor. Breach of this covenant may be regarded as a material breach of the contract.

B. Permits and Licenses

The Contractor shall procure all permits and licenses and pay all charges and fees necessary and incident to the due and lawful prosecution of the work, unless otherwise provided.

C. Sanitary Provisions

Prior to the start of construction, the Contractor shall provide and maintain in a neat and sanitary condition such accommodations for the use of his employees as may be necessary to comply with the requirements and regulations of the Federal, State and local health authorities, and he shall take such precautions as are necessary to avoid creating unsanitary conditions.

All temporary sanitary installations for use during construction shall be removed from the project by the Contractor before acceptance of the work. The construction, maintenance, and removal of all temporary sanitary facilities shall be incidental to the construction of the project and will not be paid for separately.

D. Furnishing Right-of-Way

The City will be responsible for securing all necessary rights-of-way in advance of construction. Any known exceptions will be indicated in the contract.

E. Protection and Restoration of Property

The Contractor shall restore, at his own expense, any and all public or private property damaged or injured in consequence of any act or omission on his part or on the part of his employees or agents, to a condition similar and equal to that existing before such damage or injury was done. If the Contractor neglects to repair or make restoration, the Engineer may, after 48 hours written notice to the Contractor, proceed to make such repairs or restoration, and will deduct the cost thereof from any monies that are or may become due the Contractor.

Land monuments and property corners shall not be moved or otherwise disturbed, except as directed by the Engineer.

F. Damage and Liability Insurance

The Contractor shall name the City as additional Insured on the Contractor's insurance to protect the City against all claims for damages to public or private property and for injuries to persons arising out of and during the progress and to the completion of the work.

1. **Worker’s Compensation Insurance:**
The Contractor, prior to the execution of the contract, shall file a certification that he carries Worker’s compensation Insurance.
2. **Bodily Injury and Property Damage:**
The Contractor, prior to execution of the contract, shall file with the City copies of completed certificates of insurance, and naming the City as an additional insured as evidence that he carries adequate insurance, satisfactory to the City Purchasing Agent to afford protection against all claims for damages to public or private property, and injuries to persons, arising out of and during the progress of the work, and to its completion and, where specified in the proposal, similar insurance to protect the owner of premises on or near where construction operations are to be performed.
3. **Bodily Injury and Property Damage Other than Automobile:**
Unless otherwise specifically required by special provisions in the proposal, the minimum limits of property damage and bodily injury liability covering each contract shall be:

Bodily Injury Liability

Each Person	\$5,000,000
Each Occurrence	\$5,000,000

Property Damage Liability

Each Occurrence	\$5,000,000
Aggregate	\$5,000,000

Such insurance shall include, but not be limited to, coverage for:

- a) Underground damage to facilities due to drilling and excavating with mechanical equipment; and
- b) Collapse or structural injury to structures due to blasting or explosion, excavation, tunneling, pile driving, cofferdam work, or building, moving or demolition.
- c) the above limits may be achieved with an Umbrella policy.

4. **Owner’s Protective Liability:**
The bodily injury and property damage protection specified above shall be extended to cover the City for injuries or damages arising from work covered by the contract.
5. **Bodily Injury Liability and Property Damage Liability – Automobiles:**
Unless otherwise specifically required by special provisions in the proposal, the minimum limits of bodily injury liability and property damage liability shall be:

Bodily Injury Liability

Each Person	\$5,000,000
Each Occurrence	\$5,000,000

Property Damage Liability

Each Occurrence	\$5,000,000
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Combined Single Limit

Each Occurrence	\$5,000,000
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6. **Notice:**
The Contractor shall not cancel or reduce the coverage of any insurance required by this Section without providing 30-day prior written notice to the Engineer. All such

insurance must include an endorsement whereby the insurer shall agree to notify the Engineer immediately of any reduction by the Contractor. The Contractor shall cease operations on the occurrence of any such cancellation or reduction, and shall not resume operations until new insurance is in force.

7. Reports:

At the request of the Engineer, the Contractor or his insurance carrier shall report claims received, inspections made, and disposition of claims.

G. Contractor's Responsibility for Work

Until the final acceptance of the work by the Engineer, as evidenced in writing, the Contractor shall have the charge and care thereof and shall take every precaution against injury or damage to any part thereof by the action of the elements or from any other cause, whether arising from the execution or from the non-execution of the work. The Contractor shall rebuild, repair, restore, and make good all injuries or damage to any portion of the work occasioned by any of the above causes before final acceptance and shall bear the expense thereof, except damage to the work due to unforeseeable causes beyond the control of and without fault or negligence of the Contractor, including but not restricted to acts of God or of the public enemy, acts of the Government, slides found by the Engineer to have been unavoidable, and ordinary wear and tear on any section of road opened to traffic by order of the Engineer.

If during the construction operations the Contractor intends to drain the construction project, or parts thereof, through the existing drainage system belonging to the City or other governmental unit, or through portions of the drainage system to be built under the contract, prior arrangements for such use shall be made with, and approved by, the Engineer. The Engineer and the Contractor shall determine the condition of such facilities and make such arrangements as necessary to permit use. Before acceptance of the project, the Contractor shall clean, repair, and otherwise restore all drainage facilities used, or affected by his operations, to as good or better condition than they were prior to his use. Such drainage facilities include catch basins, manholes, sumps, sewers, lift stations, outlets, and open drainage systems. If the Contractor fails to obtain prior approval for use of the drainage facilities, he will be held responsible for all remedial work required to restore them to a satisfactory condition, as determined by the Engineer.

In case of suspension of work from any cause whatever, the Contractor shall be responsible for all materials, and shall properly store them, if necessary, and shall provide suitable drainage of the roadway.

H. Contractor's Responsibility for Utility Property and Services

At points where the Contractor's operations are adjacent to properties of railway, telephone, water, sewer, electric, gas, petroleum, or cable television companies, hereinafter referred to as utilities, or are adjacent to other property, damage to which might result in considerable expenses, loss, or inconvenience, work shall not be commenced until all arrangements necessary for the protection thereof have been made.

The Contractor shall cooperate with the owners of any underground or overhead utilities in their removal and rearrangement operations in order that these operations may progress in a reasonable manner, that duplication of rearrangement work may be reduced to a minimum, and that services rendered by those utilities will not be unnecessarily interrupted.

The Contractor shall arrange, through the Engineer, for the discontinuance of all utility services that are to be abandoned as part of the project. The City will hold the Contractor responsible for any claim arising from his failure to do so.

In the event of interruption to utility services as a result of accidental breakage or as a result of being exposed or unsupported, the Contractor shall promptly notify the proper utility and shall cooperate with the said utility in the restoration of service. If utility service is interrupted, repair work shall be continuous until the service is restored.

I. Personal Liability of Public Officials

In carrying out any of the provisions of these specifications, or in exercising any power or authority granted to them by or within the scope of the contract, there shall be no liability upon any officer of the City, the City Purchasing Agent, the Engineer, or their authorized representatives, either personally or as officials of the City, it being understood that in all such matters they act solely as agents and representatives of the City.

J. No Waiver of Legal Rights

The City shall not be precluded or estopped by any measurement, estimate or certificate made either before or after the completion and acceptance of the work and payment therefore, from showing the true amount and character of the work performed and materials furnished by the Contractor, nor from showing that any such measurement, estimate or certificate is untrue or incorrectly made, nor that the work or materials do not conform in fact to the contract. The City shall not be precluded or estopped, notwithstanding any such measurement, estimate, or certificate and payment in accordance therewith from recovering from the Contractor and the Surety such damages as it may have sustained by reason of his failure to comply with the terms of the contract. Neither the acceptance by the Engineer or by his representative, nor any payment for, or acceptance of, the whole or any part of the work, nor any extension of time, nor any possession taken by the City shall operate as a waiver of any portion of the contract or of any power herein reserved, or any right to damages herein provided. A waiver of any breach of the contract shall not be held to be a waiver of any other or subsequent breach.

K. Control of Air Pollution

The Contractor shall comply with all Federal, State, and local laws and regulations governing the control of air pollution.

Dust Control:

During the construction of any project, adequate dust control measures shall be maintained so as not to cause detriment to the safety, health, welfare, or comfort of any person or cause damage to property or business.

L. Use of Explosives

When the use of explosives is necessary for the prosecution of the work, the Contractor shall comply with all laws, regulations, and ordinances and exercise the utmost care not to endanger life or property, including new work. The Contractor shall obtain a permit from the City Manager and provide the Engineer with due notice of where and when explosives are to be used.

M. Concrete Wash Water

Concrete wash water is generated from washing out ready-mix trucks, drums and pumps; it also includes the water from rinsing off chutes, equipment, and concrete truck exteriors. Improper disposal can clog storm drain pipes. Improper disposal of this material can end up in our lakes and streams. Operators must prevent concrete wash water from entering waterways, and storm drains. Wash out or dumping of excess concrete on private property will require approval from the property owner.

1.08 PROSECUTION AND PROGRESS

A. Subletting of Contract Work

The terms "Subletting" shall be understood to mean the arrangement with any party or parties to execute a part of the contract work. Approval of the subletting of any portion thereof will not be given unless and until the Contractor shall have filed with the Engineer a true copy of the subcontract, bearing the written consent of the Surety thereto.

The Contractor shall not sublet any portion of the contract, or of the work provided therein, except the furnishing of necessary materials, without the approval of the Engineer. Such approval shall not in any way relieve the Contractor of full responsibility for the performance of the contract. The Contractor shall not sell or assign any portion of the contract without the written consent of the Engineer and the Surety.

It is expressly agreed and understood by the Contractor that a Subcontractor of work to be performed under the contract shall perform, with its own organization, not less than 50% of the total value of the contract work sublet to it. It is the intent of the contract that this requirement is also applicable to and binding upon successive subcontracts.

If the Contractor requires the Subcontractor to furnish bonds, such bonds shall not reduce the amount of the bonds required to be furnished by the Contractor.

The Engineer may direct the removal from the job forthwith of any Subcontractor or his equipment operating in violation of these requirements, and any costs or damages thereby incurred are assumed by the Contractor by the acceptance of the contract. It is further understood that the Contractor's responsibilities in the performance of his contract, in case of an approved subcontract, are the same as if he had handled the work with his own organization.

B. Limitations of Operations

The Contractor shall not carry out the construction operations on Sunday, unless otherwise specified in the proposal, without permission from the Engineer except for the purpose of making emergency repairs and for the proper protection of the work such as the curing of concrete.

The Engineer reserves the right to require the Contractor to cease construction operations on legal holidays and the day following, or at such other times as may be determined to be in the interest of the general public.

In case of a dispute arising between two or more Contractors or others as to the respective rights of each under these specifications, the Engineer shall determine the matters at issue

and shall define the respective rights of the various interests involved, in order to secure the completion of all parts of the work in general harmony and with satisfactory results. His decision shall be final and binding on all parties concerned and shall not in any way be cause for a claim for extra compensation by any of the parties.

C. Competence of Workmen

The Contractor shall at all times employ sufficient labor and equipment for prosecuting the several classes of work to full completion in the manner and time required by the specifications.

Workmen shall have sufficient skill and experience to perform properly the work assigned to them. Workmen engaged in special work or skilled work shall have sufficient experience in such work and in the operation of the equipment required to perform all work properly and satisfactorily.

D. Adequacy of methods and Equipment

All equipment which is proposed to be used on the work shall be of sufficient size and in such mechanical condition as to meet requirements of the work and to produce satisfactory results.

When the methods and equipment to be used by the Contractor in accomplishing the construction are not prescribed in the contract, the Contractor is free to use any methods or equipment that he demonstrates, to the satisfaction of the Engineer and meeting all applicable safety standards and guidelines, will accomplish the contract work in conformity with the requirements of the contract.

When the contract specifies that the construction be performed by the use of certain methods and equipment, and the Contractor desires to use a method or type of equipment other than those specified in the contract, he may request authority from the Engineer to do so. The request shall be in writing and shall include a full description of the methods and equipment proposed to be used and an explanation of the full reasons for desiring to make the change. If approval is given, it will be on the condition that the Contractor will be fully responsible for producing construction work in conformity with contract requirements. If, after reasonable trial use of the substituted methods or equipment, the Engineer determines that the work produced does not meet contract requirements, the Contractor shall discontinue the use of the substitute method or equipment. The Contractor shall remove the deficient work and replace it with work of specified quality, or take such other corrective action as the Engineer may direct. No change will be made in basis of payment for the construction items involved or in contract time as a result of authorizing a change in methods or equipment under these provisions.

E. Contract Time

Contract time shall be as specified and detailed in the special conditions or information for bidders.

F. Termination of Contract

If the Contractor:

1. Fails to prosecute the work with force, equipment, or materials sufficient to complete the work within the contract time; or
2. Performs the work improperly; or
3. Discontinues the performance of the work; or
4. Neglects or refuses to remove such materials or to perform anew such work as shall have been rejected as defective and unsuitable; or
5. For any other reason fails to carry on the work in accordance with the contract; then the Engineer may give the Contractor and Surety written notice specifying the delay, neglect, or default and the action to be taken by them.

If the Contractor or Surety, within a period of ten (10) days after such notice, shall not proceed satisfactorily in accordance therewith, then the City shall have full power and authority to take the work out of the hands of the Contractor and Surety; to appropriate and use any and all materials on the ground which may be suitable; or to enter into contract or use such other methods as in its judgment may be required for the proper completion of the work; provided, if the Contractor commit any act of bankruptcy, or become insolvent or be declared bankrupt; if he shall allow any final judgment against him to remain unsatisfied for a period of five (5) days; or if he shall make an assignment for the benefit of his creditors; or if the Contractor files or if there be filed against the Contractor, proceedings for reorganization, under the Bankruptcy Act; then in any such case the City shall have full power and authority to proceed in any of the ways aforesaid, forthwith upon the delivery to the Contractor and Surety of written notice, stating the reason for said action.

In case the City takes over the uncompleted work under any of the provisions of this section, all additional costs and damages, and the costs and charges of completing the same, shall be deducted from monies due or to become due the Contractor; and if the total of such damages, costs and charges exceeds the balance of the contract price which would have been payable to the Contractor had he completed the work, then the Contractor and Surety shall, on demand, pay to the City the amount of such excess.

G. Failure to Complete on Time

If the Contractor fails to complete the entire project on or before the contract time specified in the proposal or on or before the authorized extension thereof without liquidated damages, the Contractor will be charged, for each calendar day that the work shall remain uncompleted. See Table of liquidated damages in the Information for Bidders section.

Damages for failure to meet the requirements for completion of the project will not be assessed during periods of seasonal suspension.

1.09 MEASUREMENT AND PAYMENT

A. Measurement of Quantities

Quantities of work completed under the contract will be measured by the Engineer according to United States Standard English measures, and the units shown in the bid proposal.

The method of measurement and computations to be used in determination of quantities of material furnished and of work performed under the contract will be those methods generally recognized as conforming to good engineering practice.

A station when used as a definition or term of measurement will be one hundred feet.

When the Method of Measurement specifies measurement in stations, miles or acres, the measurements will be horizontal measurements unless specified otherwise.

When the Method of Measurement for a particular item specifies that it will be "measured in place", linear or area measurements will be taken at the surface of the completed item, parallel to the base.

All materials which are specified for measurement by the cubic yard, loose measure, will be measured in the hauling vehicle at the location where used on the project, unless otherwise provided.

When material is measured by weight in tons, the unit shall be the ton of 2000 pounds. Actual scale weights shall be used as pay quantities for all materials which are specified for measurement by the ton.

B. Scales

Platform, belt conveyor, and surge bin scales shall conform to the requirements of the current edition of the National Bureau of Standards Handbook 44.

The tolerance applications of Handbook 44, as applicable to under-registration and over-registration and to tests involving digital indications or representations, shall apply.

A scale shall not be used for weighing a load totaling more than the nominal capacity marked on the scale by the manufacturer. Any portion of the load in excess of the nominal scale capacity will not be considered for payment.

All scales used for weighing of materials to be delivered under this contract shall have been checked for accuracy and approved by a Michigan Department of Transportation scale inspector or other official sealer of weights and measures within the current calendar year.

The total weight of a single highway vehicle shall be weighed as a single draft and shall not be determined by adding together the results obtained by separately weighing each end of such vehicle except that weighing of a coupled combination may be determined without uncoupling under the following conditions:

1. The brakes are released.
2. There is no tension or compression on the drawbar.
3. The approaches are straight and in the same level plane as the scale platform.
4. The approaches are paved at least 50 feet in each direction with a seal coat or higher type surfacing.
5. The approaches are sufficient width and length to ensure level positioning of vehicles during the weighing operation.

When a print-out system is employed on a platform or surge bin scale, it shall be equipped with a printer which shall print the following information on a triplicate ticket for each truckload:

1. Time
2. Date
3. Sequential ticket number (may be preprinted on ticket)
4. Gross weight
5. Tare weight (trucks shall be tared at least twice daily)
6. Net weight
7. Net accumulated job daily total

The system shall be so interlocked as to allow printing only when the scale has come to a complete rest.

C. Scope of Payment

The Contractor shall accept the compensation, as herein provided, as full payment for furnishing all necessary materials, labor, tools, equipment and incidentals and for performing all work under the contract; also for all loss or damage arising from the nature of the work, or

from the action of the elements, or from any unforeseen difficulties which may be encountered during the prosecution of the work, until its final acceptance by the Engineer.

D. Payments for Increased or Decreased Quantities

Whenever the quantity of any item of work as given in the proposal shall be increased or decreased, payment for such item of work shall be made on the basis of the actual quantity completed at the unit price for such item named in the proposal.

E. Payment for Extra Work

Payment for all approved claims of extra work shall be on a force account basis. All time shall be signed for, itemized, and agreed to daily by the construction inspector and the Contractor's representative. The Contractor shall report in writing any claims for extra payment resulting from changes causing him to replace or alter work performed after plans and specifications or initial instructions were followed. The report shall contain the following detailed information:

1. Brief description of work performed.
2. Reason Contractor feels extra payment is due.
3. Name, class, dates, number of hours worked each day, total hours computed to nearest half hour, and rate for each laborer and foreman engaged.
4. Designation, number of hours computed to nearest half hour, worked each day, total hours and rental rate for each unit of equipment engaged.
5. Quantities of materials and prices.
6. Freight on materials.
7. Contractor's overhead and materials handling charges and profit.

The report shall be submitted to the Engineer within fourteen days of the date the change was completed. General contractor markup on subcontracted work shall be a maximum of

five percent. The Engineer shall approve for payment only those claims and amounts which he deems valid and substantiated costs to the Contractor because of work performed by the Contractor in accordance with plans and specifications and later ordered replaced or altered. Failure to submit the reported claim within 14 days will result in the claim being denied.

F. Partial Payment

Partial payments will be made as specified herein, for work completed. Processing of payments will be completed as soon as practicable, however, no claim will be considered for late payment of estimates.

Partial payments will be made at intervals of not less than two weeks on the basis of the value of work completed during the estimate period, less the percentage retained as specified herein, provided the written orders of the Engineer have been or are being prepared by the Engineer of the value of the work performed and materials complete in place in accordance with the contract. In order to receive partial payment, the Contractor must have submitted correct certified payrolls for the work period the pay request covers. From the total amount earned, the City will deduct and retain amounts in accordance with the following schedule:

The City will retain 10 percent of the amount earned up to one-half the contract price. When the Contractor has earned one-half the contract price, the amount held by the City as retention will be reduced to five percent of the amount earned, and five percent of each additional amount earned will be retained by the City until final inspection and acceptance by the Engineer.

G. Final Inspection, Acceptance, and Final Payment

The Engineer shall make inspection of all work included in the contract, or such portions thereof eligible for acceptance, as soon as possible after written notification by the Contractor that the work is completed or after the Engineer's records show that the work is completed. If the work is not acceptable to the Engineer at the time of such inspection, he will advise the Contractor in writing as to the particular defects to be remedied before final acceptance by the Engineer.

Upon the satisfactory completion of any portion of a project and upon written approval of same by the Engineer, the Contractor may be relieved of any requirement for further work on such portions and from all responsibility therefore, except that he shall remove any obstructions and repair any damage caused by him subsequent to such approval and prior to final acceptance of the entire project.

When the work has been completed and the Engineer has ascertained that each and every part of the work has been performed in accordance with the plans and specifications, or such modifications thereof as he may have approved, the same will be accepted, and the Engineer will make a final estimate, as soon as practicable, for the completed work, and the total amount due the Contractor, less the total amount of all previous payments, will be paid subject to the following:

Final payment will not be made until the Contractor has filed with the City the consent of the Surety to payment of the final estimate and satisfactory evidence by affidavit or otherwise that all the indebtedness by reason of the contract has been fully paid or satisfactorily secured. In case such evidence is not furnished, the City may retain out of any amount due said Contractor sums sufficient to cover all alienable claims unpaid.

Any claim for additional compensation which has not been approved on or before the date that the Contractor is furnished a copy of the approved final estimate shall be considered as denied by the Engineer as of that date.

H. Guarantee

The Contractor shall guarantee all material and equipment furnished and work performed for a period of two (2) years from the date of project completion. The Contractor warrants and guarantees for a period of two (2) years from the date of project completion that the completed system is free from all defects due to faulty material or workmanship and the Contractor shall promptly make such corrections as may be necessary by reason of such defects including the repairs of any damage to other parts of the system resulting from such defects. The Owner will give notice of observed defects with reasonable promptness. In the event that the Contractor should fail to make such repairs, adjustments, or other work that may be made necessary by such defects, the Owner may do so and charge the Contractor the cost thereby incurred. The Performance Bond shall remain in full force and effect through the guarantee period.

CITY OF MARQUETTE
CHAPTER 2
PROPOSAL

FOR INFORMATION ONLY - NOT FOR BIDDING

Proposal of _____(hereinafter called Bidder), organized and existing under the laws of the State of _____, doing business as _____, to the City of Marquette, Michigan (hereinafter called City). (corp., partnership, individual, etc.)

1. In compliance with the City's Invitation to Bid, Bidder hereby proposes to perform all work in accordance with the Plans and Specifications at the unit prices, as submitted herein, for the several parts of this contract.
2. The undersigned, as bidder, hereby declares the Proposal is made in good faith, without fraud or collusion with any person or persons bidding on the same contract, that he has read and examined the Advertisement, Invitation to Bid, Information for Bidders, Proposal, General Requirements, Agreement, Forms of Bonds, and Plans and Specifications as prepared by the Engineer, and understands all of the same; that he or his representative has made personal investigation at the site and has informed himself fully with regard to conditions to be met in executing this Contract, and the undersigned agrees to furnish all labor, materials, power, transportation and equipment necessary for the construction of the Project.
3. Bidder acknowledges receipt of the following Addenda:

<u>Addendum #</u>	<u>Date of Addendum</u>
_____	_____
_____	_____
_____	_____

Respectfully submitted:

Signature

Address

Title

Date

ATTEST:

Signature

Schedule of Items (Itemized Bid Sheet)

Letting Date: Thursday, March 23, 2023 11:00

Contract ID: MQ23-018 MERGE
Location: Sidewalk Replacement and Repairs
Description: Sidewalk Repair, Extension and Safety Improvements Throughout the City of Marquette

Project Number: MQ20-018
Estimate Number: 3
Project Type: Miscellaneous
Location: Sidewalk Replacement and Repairs

Project Engineer: Mik Kilpela
Date Created: 1/12/2023
Fed/State #:
Fed Item:
Control Section:

Description: Sidewalk Repair, Extension and Safety Improvements Throughout the City of Marquette

Instructions to Bidders: IMPORTANT NOTICE:
If the proposal establishes a maximum price for any of the following work items, and if you bid a price higher than that maximum price, your bid will be considered to have quoted the maximum price and your bid total will be adjusted to reflect that maximum price.

If your bid is the lowest accepted bid, and if you refuse to accept the award of the contract due to the change in what you quoted as a maximum or specified price, you will forfeit your proposal guaranty.

NOT FOR BIDDING

Pay Item	Description	Quantity	Units	Unit Price		Bid Amount	
				Dollars	Cts	Dollars	Cts
1077051	_ Resident Notification, Max \$2,500	1	LSUM				
1100001	Mobilization, Max \$5,000	1	LSUM				
2040055	Sidewalk, Rem	205	Syd				
2050010	Embankment, CIP	10	Cyd				
2050016	Excavation, Earth	15	Cyd				
2090001	Project Cleanup	1	LSUM				
2097051	_ Soil Erosion & Sedimentation Control	1	LSUM				
3010002	Subbase, CIP	18	Cyd				
3020016	Aggregate Base, 6 inch	35	Syd				
8010005	Driveway, Nonreinf Conc, 6 inch	72	Syd				
8030010	Detectable Warning Surface	20	Ft				
8030044	Sidewalk, Conc, 4 inch	2,603	Sft				
8030046	Sidewalk, Conc, 6 inch	497	Sft				
8032002	Curb Ramp, Conc, 6 inch	206	Sft				
8037011	_ Root Removal	7	Syd				
8070095	Post, Mailbox	2	Ea				
8100371	Post, Steel, 3 pound	104	Ft				
8100405	Sign, Type IIIB	41	Sft				
8107050	_ Sign, W11-15 W/ Flashing LED, Solar, Fluorescent Yellow	4	Ea				
8117001	_ Pavt Mrkg, Polyurea, 24 inch Ladder Pattern	110	Ft				
8127051	_ Traffic Control	1	LSUM				

Pay Item	Description	Quantity	Units	Unit Price		Bid Amount	
				Dollars	Cts	Dollars	Cts
8160055	Sodding	250	Syd				
8160062	Topsoil Surface, Furn, 4 inch	250	Syd				
8167001	Place 4 inch Topsoil, Fertilizer, Seed, and Mulch	600	Ft				

Total Bid:

Contractor: _____

(Signature)

(Date)

NOT FOR BIDDING

CITY OF MARQUETTE
CHAPTER 3
CONSTRUCTION CONTRACT

PROJECT NAME: _____

PROJECT NUMBERS: _____

THIS AGREEMENT, made this _____, between the City of Marquette, a Michigan Municipal Corporation, hereinafter called the "City" of 300 W. Baraga Avenue, Marquette, MI 49855, and _____ of _____, a _____, holding license number _____, hereinafter called "Contractor".

WITNESSETH: That for and in consideration of the payments and Agreements hereinafter mentioned, the parties hereby agree as follows:

ARTICLE 1

CONTRACT DOCUMENTS

The "Contract Documents" consist of, but are not necessarily limited to, this Agreement, the invitation to Bid, Information for Bidders, Bidders Proposal, Addenda, Specifications, Supplemental Specifications, Special Provisions, Construction Drawings, Notice to Proceed, Allowances, Finish Schedules and any additional documentation issued prior to execution of this Agreement and all Change Orders as approved by the City. These Contract Documents represent the entire Agreement and understanding between the parties hereto.

ARTICLE 2

SCOPE OF WORK

Contractor will furnish all the materials, supplies, tools, equipment, labor and other services necessary for the construction and completion of the project described in the Contract Documents.

ARTICLE 3

MATERIALS, APPLIANCES, and EMPLOYEES

Except as otherwise noted, the Contractor shall provide and pay for all materials, labor, tools and other items necessary to complete the work. Unless otherwise specified, all materials shall be new, and both workmanship and materials shall be of good quality. All workmen shall be skilled in their trades.

ARTICLE 4

TIME OF COMPLETION

The commencement date of this project is _____, and the completion date of this project is _____. The Contractor shall be penalized in the amount of \$_____ per day if the project is not completed by the contract completion date unless the period for completion is extended by change order.

ARTICLE 5

CONTRACT SUM

The Contractor agrees to perform all of the work described in the Contract Documents and comply with the terms therein for the sum of \$_____, subject to additions and deductions pursuant to authorized change orders and allowances.

ARTICLE 6

PAYMENTS

The City will pay to the Contractor in the manner and at such times as set forth in the Specifications such amounts as required by the Contract documents.

ARTICLE 7

CONTRACTOR'S OBLIGATIONS

1. All work shall be in accordance to the provisions of the Contract Documents. All systems shall be in good working order.
2. All work shall be completed in a workmanlike manner and shall comply with all applicable laws.
3. Contractor shall obtain all necessary permits for the work to be completed.
4. Contractor shall remove all construction debris and leave the project in a "broom clean" condition.
5. Upon satisfactory payment being made for the work performed by Contractor, Contractor shall furnish a full and unconditional Release of Lien for the work of which payment has been made.
6. Safety and Fire Protection:
The Contractor shall be responsible for safety at the construction site. The Contractor will further comply with all applicable laws, rules and regulations of the Michigan Department of State Police, Fire Marshall Division, the State Fire Safety Board, Michigan Occupational Safety and Health Administration, and Local Agencies. Precaution shall be exercised at all times for the protection of persons and of property. The safety provisions of applicable laws, rules, regulations, building and construction codes shall be followed. Safety Hazards shall be guarded in accordance with safety provisions of the Manual of Accident Prevention in Construction published by The Associated General Contractors of America to the extent that such provisions are not in conflict with applicable laws.

ARTICLE 8

CONTRACTOR'S STATUS AS INDEPENDENT ENTITY

The City shall not assume any liability for the Contractor in the performance of the construction project, methods, techniques, sequences or programs in connection with the project since these are solely the Contractor's responsibility.

ARTICLE 9

CHANGE ORDERS AND PAYMENT

A change order is any change to the original plans and/or specifications. All change orders need to be agreed upon between the parties hereto, and address additional costs, time, consideration and dates when the work will begin and be completed. Change orders are not effective unless signed by both parties who shall not unreasonably withhold approval of the same. However, should the Contractor unreasonably refuse to approve a change order reasonably and in good faith submitted by the City, the City Engineer shall be empowered to make a final and fair determination as to the necessity for the change order and the fair and equitable cost to the Contractor and shall further be empowered to issue a final payment to the Contractor. Should the Contractor refuse to accept said final payment, the funds may be deposited in an Escrow Account by the City for the benefit of the Contractor.

ARTICLE 10

INSURANCE

The Contractor shall purchase and maintain Workman's Compensation and Liability Insurance coverage as required by law and deemed necessary for its own protection. Said insurance shall be written by an insurance carrier having at least an "A, VII" rating. The Contractor shall further name the City as an additional insured on all applicable insurance policies covering the project. Said insurance shall be in minimum limits of at least \$5,000,000.00 for both general liability and automobile liability. The Contractor shall further maintain such insurance as will protect it from claims under worker's compensation acts and other employee benefits acts, from claims for damages because of bodily injury, including death, and from claims for damages to property which may arise both out of and from claims for damages to property which may arise both out of and during operations under this contract, whether such operations are by Contractor or by anyone directly or indirectly employed by the Contractor. This insurance shall be written for not less than any limits of liability specified as part of the Contract Documents. Certificates of such insurance shall be filed with the City.

ARTICLE 11

INDEMNIFICATION

To the extent allowed by MCL 691.991, the Contractor shall indemnify and hold harmless the City, the City's officers, directors, members, partners, agents, and employees against all liability claims and judgments or demands for damages arising from accidents to persons or property occasioned by the Contractor, its agents or employees, and against all claims or demands for damages arising from accidents to the Contractor, its agents or

employees, whether occasioned by said Contractor or its employees or by City or its employees or any other person or persons, and the said Contractor will defend any and all suits that may be brought against the City on account of any such accidents and will make good to, and reimburse, the City for any expenditures that said City may make by reason of such accidents; provided, however, that the Contractor shall not be responsible to the City on indemnity for damages caused by or resulting from the City's sole negligence.

ARTICLE 12

CITY'S RIGHT TO TERMINATE THE CONTRACT

Should the Contractor neglect to perform the work properly or fail to perform any provision of the Contract, the City, after seven (7) days' written notice to the Contractor, and its surety, if any, may, without prejudice to any other remedy the City may have, make good the deficiencies and may deduct the cost thereof from the payment then or thereafter due the Contractor or, at its option, may terminate the Contract and take possession of all materials, tools and appliances and finish the work by such means as it sees fit, and if the unpaid balance of the contract price exceeds the expense of finishing the work, such excess shall be paid to the Contractor, but if such expense exceeds such unpaid balance, the Contractor shall pay the difference to the City.

ARTICLE 13

CONTRACTOR'S RIGHT TO TERMINATE CONTRACT

Should the work be stopped by any public authority for a period of ninety (90) days or more, through no fault of the Contractor, or should the work be stopped through act or neglect of the City for a period of ninety (90) days, then the Contractor, upon seven (7) days' written notice to the City, may stop work or terminate the Contract and recover from the City payment for all work executed and any loss sustained and reasonable profit and damages.

ARTICLE 14

ACCESS TO WORK

The Contractor shall permit and facilitate observation of the work by the City and its agents and public authorities at all times.

ARTICLE 15

ARBITRATION OF DISPUTES

Any disagreement arising out of this contract or from the breach thereof shall be submitted to arbitration, and judgment upon the award rendered may be entered in the court of the forum, state or federal, having jurisdiction. It is mutually agreed that the decision of the arbitrators shall be a condition precedent to any right of legal action that either party may have against the other. The arbitration shall be held under the Rules of the American Arbitration Association.

ARTICLE 16

WARRANTY

At the completion of this project, Contractor shall execute an instrument to City warranting the project for two (2) years against defects in workmanship or materials utilized. In addition the warranty shall specifically include the replacement of concrete that spalls more than 30% per 10 foot section of curb and gutter, the replacement of concrete that spalls more than 30% per driveway apron square or sidewalk square, and the replacement of stamped concrete that spalls more than 30% of the area between each sidewalk square and the curb. The manufacturer's warranty shall prevail.

At the time of completion, the Contractor shall furnish to the City material containing complete operation and maintenance instructions for all equipment in the project. The Contractor shall also furnish to the City at the time of completion all documents, warranties and guarantees on all equipment and services provided.

The Contractor shall re-execute any work that fails to conform to the requirements of the Contract and that appears during the progress of the work and shall remedy any defects due to faulty workmanship, which appear within a period of two (2) years from the date of completion of the Contract or such longer period of time as may be prescribed by laws or regulations or by the terms of any applicable special guarantee required by the Contract Documents or by any specific provision of the Contract Documents. All equipment and materials will be warranted and guaranteed under the original equipment manufacturer's warranties and guarantees.

The Contractor shall restore any work damaged in fulfilling the terms and conditions of this Article. After such repair or replacement has been satisfactorily completed, the Contractor's warranty with respect to such work repaired or replaced will be extended for an additional period of one (1) year beyond the warranty period described above. Contractor's obligations under this paragraph are in addition to any other obligation or warranty.

The terms of the Local Pavement Warranty Program adopted by the City of Marquette are hereby incorporated by reference into this contract and made a part hereof.

ARTICLE 17

FEDERAL-AID CONTRACTS

During the performance of every contract subject to Title VI of the Civil Rights Act of 1964 and Title 49, Code of Federal Regulations, Department of Federally-assisted programs of the Department of Transportation issued pursuant to the Act, the Contractor, for itself, its assignees and successors in interest agrees as follows:

1. **Compliance with Regulations:** The Contractor shall comply with Regulations relative to nondiscrimination in Federally-assisted programs of the Department of Transportation, Title 49, Code of Federal Regulations, part 21, as they may be amended from time to time (hereinafter referred to as the Regulations), which are herein incorporated by reference and made a part of this contract.
2. **Nondiscrimination:** The Contractor, with regard to the work performed by it during the contract, shall not discriminate on the grounds of race, color, sex or national origin in the selection, retention and treatment of Subcontractors, including procurements of materials in the discrimination prohibited by Section 21.5 of the Regulation, including employment practices when the Contractor covers a program set forth in Appendix B of the Regulations.

3. **Solicitation for Subcontracts, including Procurements of Materials and Equipment:** In all solicitations either by competitive bidding or negotiation made by the Contractor for work to be performed under a subcontract, including procurements of materials or leases of equipment, each potential Subcontractor or supplier shall be notified by the Contractor of the Contractor's obligations under the contract and the Regulations relative to nondiscrimination on the grounds of race, color or national origin.
4. **Information and Reports:**
The Contractor shall provide all information and reports required by the Regulations, or directives issued pursuant thereto, and shall permit access to its books, records, accounts, other sources of information, and its facilities as may be determined by the State Highway Department of the Federal Highway Administration to be pertinent to ascertain compliance with such Regulations or directives. Where any information required of a Contractor is in the exclusive possession of another who fails or refuses to furnish this information, the Contractor shall so certify to the State Highway Department or the Federal Highway Administration, as appropriate, and shall set forth what efforts it has made to obtain the information.
5. **Sanctions for Noncompliance:**
In the event the Contractor's noncompliance with the nondiscrimination provisions of this contract, the State Highway Department shall impose such contract sanctions as it or the Federal Highway Administration may determine to be appropriate, including, but not limited to:
 - a) Withholding payments to the Contractor under the contract until the Contractor complies; and/or
 - b) Cancellations, termination or suspension of the contract, in whole or in part.
6. **Incorporation of Provisions:**
The Contractor shall include provisions of paragraphs (1) through (6) in every subcontract, including procurement of material and leases of equipment, unless exempt by the Regulations, or directives issued pursuant thereto. The Contractor shall take such action with respect to any subcontract or procurement as the State Highway Department or the Federal Highway Administration may direct as a means of enforcing such provisions including sanctions for noncompliance; provided, however, that, in the event a Contractor becomes involved in, or is threatened with, litigation with a Subcontractor or supplier as a result of such direction, the Contractor may request the State Highway Department to enter into such litigation to protect the interests of the State, and, in addition, the Contractor may request the United States to enter into such litigation to protect the interests of the United States.

ARTICLE 18

INTEGRATION

This Agreement represents the entire understanding between the parties hereto and may not be amended, except in writing that is signed by both parties hereto.

ARTICLE 19

BINDING AGREEMENT

This Agreement will bind and inure to the benefit of the heirs, executors, administrators, successors and assigns of the parties.

ARTICLE 20

PURCHASING AGENT DESIGNATION AND AUTHORITY

Mikael H. Kilpela is designated as Purchasing Agent of City and is authorized to order minor changes in the work not involving adjustment in the Contract Sum or Time of Completion and not inconsistent with the intent of the Contract Documents. Such changes will be affected by written order signed by the Purchasing Agent and shall be binding on the City and Contractor.

IN WITNESS WHEREOF, the parties have made and executed this Agreement, the day and year first above written.

Signed this _____ day of _____, 20__.

THE CITY OF MARQUETTE

Witness

Cody O. Mayer, Mayor
City of Marquette

Witness

Kyle L. Whitney, City Clerk
City of Marquette

*******CONTRACTOR*******

Witness

By: _____

Witness

Its: _____

Address: _____

Telephone#: _____

APPROVED AS TO FORM:

APPROVED AS TO SUBSTANCE:

Suzanne C. Larsen
City Attorney

Karen M. Kovacs
City Manager

CITY OF MARQUETTE
CHAPTER 4
BONDS

4.01 BID BOND

KNOW ALL MEN BY THESE PRESENTS, that we, the undersigned, _____
as Principal, and _____ as Surety are hereby held and firmly
bound unto the City of Marquette, Michigan, in the penal sum of
\$ _____ for the payment of which, well and truly to be made, we
hereby jointly and severally bind ourselves, our heirs, executors, administrators, successors
and assigns. Signed, this _____ day of _____, 20_____.

The condition of the above obligation is that the Principal has submitted to the City of
Marquette, Michigan, a certain bid attached hereto and made a part hereof to enter into a
contract in writing for the construction of:

NOW, THEREFORE,

- a) If said Bid shall be rejected, or in the alternate,
- b) If said bid shall be accepted and the Principal shall execute and deliver a contract in
the Form of Contract attached hereto (properly completed in accordance with said
Bid) and shall furnish a bond for his faithful performance of said Contractor, and for
the payment of all persons performing labor or furnishing materials in connection
therewith, and shall in all other respects perform the agreement created by the
acceptance of said Bid,

then this obligation shall be void, otherwise the same shall remain in force and effect; it
being expressly understood and agreed that the liability of the Surety for any and all claims
hereunder shall, in no event, exceed the penal amount of this obligation as herein stated.

The Surety, for value received, hereby stipulates and agrees that the obligations of said
Surety and its bond shall be in no way impaired or affected by an extension of the time
within which the City may accept such Bid; and said Surety does hereby waive notice of any
such extension.

IN WITNESS WHEREOF, the Principal and the Surety have hereunto set their hands and
seals, and such of them as are corporations have caused their corporate seals to be hereto
affixed and these presents to be signed by their proper officers, the day and year first set
forth above.

Principal (L.S.)

Surety

SEAL BY _____

4.02 PERFORMANCE BOND

KNOW ALL MEN BY THESE PRESENTS:

(Name of Contractor)

(Address of Contractor)

a _____, hereinafter called "Principal", and
(Corporation, Partnership, or Individual)

(Name of Surety)

(Address of Surety)

hereinafter called "Surety" are held and firmly bound unto the City of Marquette 300 W. Baraga Avenue, Marquette, Michigan 49855 hereinafter called "City"; in the penal sum of _____ Dollars, (\$ _____) in lawful money of the United States, for the payment of which sum well and truly to be made, we bind ourselves, our heirs, executors, administrators and successors, firmly by these presents.

THE CONDITION OF THIS OBLIGATION is that the Principal entered into a certain contract with the City, dated the _____ day of _____, 20____, a copy of which is hereto attached and made a part hereof for the construction of:

NOW, THEREFORE, if the Principal shall well, truly and faithfully perform its duties, all the undertakings, covenants, terms, conditions, and agreements of said contract during the original term thereof, and any extension thereof which may be granted by the City, with or without notice to the Surety, and if he shall satisfy all claims and demands incurred under such contract, and shall fully indemnify and save harmless the City from all costs and damages which it may suffer by reason of failure to do so, and shall reimburse and repay the City all outlay and expense which the City may incur in making good any default, then this obligation shall be void; otherwise this obligation shall remain in full force and effect.

PROVIDED, FURTHER, that the said Surety, for value received hereby stipulates and agrees that no change, extension of time, alteration or addition to the terms of the contract or to the work to be performed thereunder or the specifications accompanying the same shall in any way affect its obligation on this bond, and it does hereby waive notice of any such change, extension of time, alteration or addition to the terms of the contract or to the work or to the specifications.

PROVIDED, FURTHER, that no final settlement between the City and the Contractor shall abridge the right of any beneficiary hereunder, whose claim may be unsatisfied.

IN WITNESS WHEREOF, this instrument is executed in six (6) counterparts, each one of which shall be deemed an original, this the _____ day of _____ 20_____.

ATTEST:

(Principal) Secretary

(SEAL)

Witness as to Principal

(Address)

Principal

By _____

(Address)

(Surety)

ATTEST:

(Surety) Secretary

(SEAL)

Witness as to Surety

(Address)

Attorney-in-fact

(Address)

NOTE: Date of Bond must be prior to date of Contract. If Contractor is Partnership, all partners should execute Bond.

IMPORTANT: Surety companies executing bonds must appear on the Treasury Department's most current list (Circular 570 as amended) and be authorized to transact business in the State where the project is located.

4.03 PAYMENT BOND

KNOW ALL MEN BY THESE PRESENTS: that

(Name of Contractor)

(Address of Contractor)

a _____, hereinafter called Principal, and
(Corporation, Partnership, or Individual)

(Name of Surety)

(Address of Surety)

called Surety are held and firmly bound unto the City of Marquette, 300 W. Baraga Avenue, Marquette, Michigan 49855 called City; in the penal sum of _____ Dollars, (\$_____) in lawful money of the United States, for the payment of which sum well and truly to be made, we bind ourselves, our heirs, executors, administrators and successors, firmly by these presents.

THE CONDITION OF THIS OBLIGATION is that the Principal entered into a certain contract with the City, dated the _____ day _____, 20 _____, a copy of which is hereto attached and made a part hereof for the construction of:

NOW, THEREFORE, if the Principal shall promptly make payment to all persons, firms, subcontractors, and corporations furnishing materials for or performing labor in the prosecution of the work provided for in such contract, and any authorized extension or modification thereof, including all amounts due for materials, lubricants, oil, gasoline, coal and coke, repairs on machinery, equipment and tools, consumed or used in connection with the construction of such work, and all insurance premiums on said work, and for all labor, performed in such work whether by subcontractor or otherwise, then this obligation shall be void; otherwise this obligation shall remain in full force and effect.

PROVIDED, FURTHER, that the said Surety, for value received hereby stipulates and agrees that no change, extension of time, alteration or addition to the terms of the contract or to the work to be performed thereunder or the specifications accompanying the same shall in any way affect its obligation on this bond, and it does hereby waive notice of any such

change, extension of time, alteration or addition to the terms of the contract or to the work or to the specifications.

PROVIDED, FURTHER, that no final settlement between the City and the Contractor shall abridge the right of any beneficiary hereunder, whose claim may be unsatisfied.

IN WITNESS WHEREOF, this instrument is executed in six (6) counterparts, each one of which shall be deemed an original, this the _____ day of _____ 20 ____.

ATTEST:

(Principal) Secretary

(SEAL)

Witness as to Principal

(Address)

Principal

By _____

(Address)

(Surety)

ATTEST:

(Surety) Secretary

(SEAL)

Witness as to Surety

(Address)

Attorney-in-fact

(Address)

NOTE: Date of Bond must be prior to date of Contract. If Contractor is Partnership, all partners should execute Bond.

IMPORTANT: Surety companies executing bonds must appear on the Treasury Department's most current list (Circular 570 as amended) and be authorized to transact business in the State where the project is located.

4.04 CONSENT OF SURETY TO FINAL PAYMENT

Project Description:

Account Number:

City: City of Marquette

Contractor: _____

For: _____

Date: _____

In accordance with the provisions of the Contract between the City and the Contractor as indicated above, the (insert name and address of Surety Company).

_____, Surety Company,

on bond of (insert name and address of Contractor)

_____, Contractor

hereby approves of the final payment to the said Contractor, and agrees that final payment to the Contractor of the final estimates shall not relieve the Surety Company of any of its obligations to the CITY, as set forth in the said Surety Company's Bond.

WITNESS WHEREOF, the said Surety Company has hereunto set its hand this _____ day of _____, 20____.

ATTEST:

Surety Company

Address

Authorized Officer or Agent

(SEAL)

4.05 CONTRACTOR'S AFFIDAVIT OF RELEASE OF LIENS AND PAYMENT OF DEBTS & CLAIMS

Project Description:

Account Number:

Project Number:

Project Address:

Contractor: _____

Contract For: _____

Contract Date: _____

STATE OF)
)ss.
COUNTY OF)

The undersigned hereby certifies that pursuant to the General Conditions of the Contract, the releases or waivers of liens attached cover the Contractor, all Subcontractors, all suppliers of materials and equipment, and all performers of work, labor or services who have or may have liens against any real property of the City arising in any manner out of the performance of the above-named Contract.

The undersigned further certifies, except as listed below, that he has paid in full or has otherwise satisfied obligations for all materials and equipment provided, and for all work, labor or services performed and known claims for damages arising in any manner in connection with the performance of said Contract for which the City or his property might in any way be held responsible.

EXCEPTIONS: (if none, write none):

SUPPORTING DOCUMENTS ATTACHED HERETO:

1. Contractor's Release or Waiver of Liens
2. Consent of Surety to Final Payment. Wherever Surety is involved, Consent of Surety is required.
Indicate attachment: Yes ____ No ____
3. List of separate Releases or Waivers of Liens from all Subcontractors and materials and equipment suppliers.
4. Separate Releases or Waivers of Liens listed in Item 3 above (shall be required if any subcontractor or supplier has indicated problems with payments).

BY: _____

TITLE: _____

Subscribed and sworn to before me this _____ day of _____, 20____.

Notary Public

My Commission Expires:

CITY OF MARQUETTE
CHAPTER 5
SPECIAL PROVISIONS

5.01 GENERAL DESCRIPTION

The work under this contract shall be completed in accordance with the plans, special provisions, standard specifications, supplemental specifications, City of Marquette Standard Water and Sanitary Sewer Main Construction Specifications, the Michigan Department of Transportation (MDOT) 2020 Standard Specifications for Construction and the 2011 Manual of Uniform Traffic Control Devices.

5.02 SCOPE OF WORK

1. The work under this contract consists of: Work throughout the City of Marquette involving the replacement and repair of sidewalk as well as the construction of new sidewalk on the north side of Wright Street between Wilkinson Avenue and Van Evera Avenue, and signage and striping at multiuse path crossings of Sugarloaf Avenue and Wright Street.
2. The construction influence area (C.I.A.) shall include the following: Various locations throughout the City of Marquette per the project plans.

5.03 CONTROL OF WORK AND CONSTRUCTION PHASES

A. General

No work shall begin on any stage of construction until the contractor has made preparations to assure timely completion of the work. Prior to starting any phase or stage of construction the Engineer and adjacent properties shall be advised of the nature and anticipated duration of the work. The contractor shall include in his plan of work accommodations for any individuals with special needs to assure access to and from their properties.

Liquidated damages will be assessed for failure to adhere to the time constraints as detailed in the phased construction schedule and as detailed in the “Liquidated Damages – Phased Work” schedule per these contract documents. Materials should be neatly placed so as not to create an unsightly or hazardous condition for adjacent property owners.

CONSTRUCTION PHASING

The intent of this section is to provide a general idea of the sequencing of the work and is not intended to cover all aspects of the work.

Work can occur concurrently at all locations given that a schedule has been given to an approved by the City Engineer.

5.04 COORDINATING CLAUSE FOR UTILITIES

A. The Contractor is advised of the following public utilities having underground facilities located within the contraction limits of this project.

- 1.** AT&T
Marsha Bertoldi
211 East B Street
Iron Mountain, MI 49801
(906) 779-2744
mb8983@att.com
- 2.** Spectrum Mid-America LLC
Brian Koski
359 U.S. 41 East
Negaunee, MI 49866
(906) 475-0107 ext. 1038
brian.koski@charter.com
- 3.** Marquette Board of Light and Power
Sean Seibert
2200 Wright Street
Marquette, MI 49855
(906) 228-0323
sseibert@mblp.org
- 4.** Peninsula Fiber Network
Dan Nedeau
108 W. Superior Street
Munising, MI 49862
(906) 387-0034
dnedeau@jamadots.net
- 5.** SEMCO
Jeff Gregorich
34 U.S. 41 East
Negaunee, MI 49866
(810) 887-5170
jeffrey.gregorich@semcoenergy.com
- 6.** Marquette Department of Public Works
Scott Cambensy
1100 Wright Street
Marquette, MI 49855
(906) 225-8977
scambensy@marquettemi.gov
- 7.** Marquette Township
Leonard Bodenus
1000 Commerce Drive
Marquette, MI 49855
(906) 228-6220
lbodenus@marquettetownship.org

8. Northern Natural Gas
Karen Perreault
118 U.S. 41 East
Negaunee, MI 49866
(402) 530-3102
karen.pereault@nngco.com

B. Utility Company Projects Scheduled Within the Project:

1. The Contractor is advised that utility companies may work within the project area. The contractor shall provide coordination to accommodate this work. Said accommodation shall be considered included in the work items bid for the project.
2. Upon inspection of their facilities, utility companies may decide to replace certain items. The contractor shall coordinate his activities with such utility companies to assure the work is done in a most expeditious manner.
3. The Marquette Board of Light and Power may be burying conduits in the project area. The contractor shall coordinate this activity with the Marquette Board of Light and Power. Generally, these conduits will be placed after underground work has been completed and the final top of subbase has been trimmed. The conduits shall be in place prior to paving or pouring concrete.
4. SEMCO Energy may need to relocate natural gas main throughout the project. The contractor shall coordinate his activities with SEMCO Energy to avoid construction area conflicts.

C. The Contractor will be required to notify the Utility Companies 72 hours prior to performing work in areas where underground facilities are shown on the plans. If utilities are exposed during construction activities that are not shown on the plan, the Contractor shall notify the Utility Company immediately. He will be required to exercise care and caution when working in these areas. The Contractor's attention is called to the requirements of cooperation with others as covered in Article 104.07 of the MDOT Standard Specifications for Construction.

D. Work stoppage by employees of Utility Companies which results in a delay of utility revisions on any portion of this project may be considered the basis for a claim for an extension of time of completion, but will not be considered the basis for a claim for extra compensation or an adjustment in the Contract Unit Prices.

5.05 UTILITIES

A. The plans indicate the approximate location of various known utilities; however, the locations may vary, and other utilities may be present but not shown. The Contractor is required to contact "MISS DIG" at 1-800-482-7171, 72 hours (3 working days) in advance of any excavation operations. It shall be the Contractor's responsibility to protect all utilities within the project limits in accordance with the requirements of the utility that may be affected by his operations.

B. In General - Where any utility, water, sewer, gas, telephone or any other public or private utilities are encountered the Contractor must provide adequate protection for them, and he will be held responsible for any damages to such utilities arising from his operations.

When it is apparent that construction operations may endanger the foundation of any utility, conduit, or support of any structure, the contractor shall notify the utility owner of this possibility, the contractor shall take such steps as may be required to provide temporary bracing or support of conduits or structures. Where existing utility lines are damaged during the performance of the work the contractor shall immediately notify the appropriate utility representative. The contractor shall, when requested, make such repairs as may be necessary to restore and protect the damaged facility.

Where it is the policy of any utility owner to make his own repairs to damaged conduit or other structures, the Contractor shall cooperate to the fullest extent with the utility owner and shall see that his operations interfere as little as possible with those operations.

5.06 TRAFFIC

A. The Contractors schedule shall be submitted to the engineer for review prior to the start of the project.

B. Fire hydrants within the project area are to be kept in working order, clear and accessible. If a hydrant is required to be removed from service, it shall be covered with a waterproof bag and the Fire Department advised.

C. Access to private driveways and pedestrian entrances shall be maintained to the greatest extent possible, provisions for accommodation of handicapped residents shall be included. The contractor is to assure that before his activities close a private drive, there are no vehicles blocked in the driveway and the owner has been notified. The contractor shall contact all residents on the street for clarification of the need to accommodate handicapped individuals.

D. All signs, barricades, warning lights, and other traffic control devices shall be in accordance with the 2011 Michigan Manual of Uniform Traffic Control Devices. The contractor shall furnish, install, maintain, reposition as required, and remove all traffic control devices used on this project. Prior to removal of construction signs the contractor shall coordinate with the Engineer and the City Department of Public Works for placement of permanent signs. All signs shall be post mounted at 7 feet minimum bottom height. All necessary traffic control measures will be paid for at the contract unit price for the contract items. Contractor must provide a certificate on maintenance of all electronic devices a minimum of once each week. The Contractor should refer to Section 812 of the 2020 MDOT Standard Specifications for Construction and the modifications contained in the supplemental specifications for measurement and payment.

E. The closing of any intersection shall require Type III (MDOT) barricades, lighted, as construction operations warrant. The Contractor shall notify the Engineer in writing of his construction operations schedule prior to commencing construction in all areas.

F. Detours shall be signed and maintained as indicated in the plans, or as approved by the Engineer from the construction schedule supplied by the contractor. Placement and maintenance of detour signing, maintenance of the detour route, removal, storage and relocation for subsequent detour route reuse along with the associated maintenance will all be included in the work of the temporary signing item(s) at the contract amount bid.

G. Pedestrian access to all businesses and residences along the project shall be maintained at all times except as approved by the engineer for spot construction activities. This access

shall include special considerations for handicap access. It shall include access along the project at the sidewalk location on each side of the street and also street crossings at each intersection and at mid-block. Pedestrian access shall be provided by boardwalks, carpet, or other methods and materials suitable for use by those individuals in the area. These items shall meet the approval of the Engineer. The contractor shall include proposed materials along with shop drawings demonstrating dimensions of the structures and materials to be used for review at the preconstruction conference. No additional payment shall be made for these items but shall be considered included in the items of work bid.

The contractor shall protect the public wherever a hazardous condition exists. The contractor shall inspect the site before leaving the site for the day to assure that all hazardous areas are fenced or appropriately protected.

H. All traffic control devices in work zones must be crashworthy. This includes temporary signs, cones, drums with or without lights and Type III barricades. The requirements and criteria can be found in the National Cooperative Highway Research Program (NCHRP), Report 350. This report is intended to identify and improve safety features of traffic control devices used in the highway environment.

Contractors and suppliers involved in City of Marquette construction projects are required to meet NCHRP 350 effective January 2011.

All contractors that use traffic control devices (i.e.: portable signs, cones, drums with or without lights and Type III barricades in work zones should contact their device suppliers and ask for a letter of certification that their devices are crashworthy. If any of these devices are built by the contractor, then the device must either be crash tested or built according to existing crashworthy designs that meet the NCHRP 350 standard. Certification letter(s) shall be retained by the company and provided to the City of Marquette.

5.07 PRECONSTRUCTION AND PROGRESS MEETINGS

A. Preconstruction Meetings

Before any work is commenced under the contract, a preconstruction meeting between representatives of the Contractor, the City Engineering Department, and the City's Representative shall be held at the Engineering Department, 1100 Wright Street, at the date and time specified in the information for bidders or at a time and date mutually agreed upon, but not later than 10 working days after acceptance by the City Commission. At this time, the requirements of the contract, proposed schedule, construction methods and the contract documents shall be discussed in order to obtain a mutual understanding of the overall construction.

The contractor shall submit in writing at the pre-construction meeting the following information:

1. Proposed schedule of construction – (Critical Path Method)
2. Proposed sources of material
3. List of Subcontractors
4. Superintendent for the project
5. Supervisor in charge of the job site
6. Emergency phone numbers for contractor(s)
7. Company's Damage Claim Policy
8. Company's Confined Space Entry Policy

9. Proposed summary of equipment rental rates (Blue Book Rates)
10. Example of resident notification letter or door hanger.
11. Shop Drawings/catalogue cuts, submittals and certifications, and the pre-approved materials form.

B. Progress Meetings

Progress meetings shall be held on a weekly basis, or as determined by the Owner. Meetings shall be held at the office of the Engineer, or other suitable, agreed upon location. Representatives of the Owner, the Engineer, and the contractor including any subcontractors, shall attend the progress meetings.

In addition, the meetings shall be open to the general public, especially the residents and property owners affected by the project. At these meetings the parties to the contract shall listen to the public needs and make such accommodations as are appropriate.

5.08 NOTICE TO PROCEED

After the preconstruction meeting is held and after receipt of the required bonds and insurance, approved construction schedule, shop drawings/catalogue cuts, submittals and certifications, the City Engineer will within 5 calendar days, issue a notice to proceed on the project. Such notice shall be issued in duplicate and the contractor shall affix to one copy the date received and his signature and return that copy to the City Engineer. The Contractor shall commence work on the project within ten days of receipt of the notice to proceed or as agreed in accordance with the contractors approved schedule. Should the Engineer fail to issue such notice to proceed, the Engineer will inform the Contractor as to why the City is not prepared to proceed.

5.09 PROSECUTION, PROGRESS & LIQUIDATED DAMAGES

Should the contractor fail to complete the work as specified by the contract completion date, liquidated damages will be assessed at the rate shown in table 1.08 below ,until the specific requirement is met. If the job is phased with project milestones the “Time For Completion – Phased Construction” schedule and the “Liquidated Damages – Phased Work” schedule detailed in the INFORMATION FOR BIDDERS SECTION OF THIS CONTRACT will take precedent over the below table. Completion shall mean the completion of all work including the final placement of topsoil and sod unless the scope of work is detailed differently under provision 5.03 of these contract documents.

Original Contract Amount (\$)	Liquid Damages per Calendar Day (\$)
0 to 49,999	200
50,000 to 99,999	400
100,000 to 499,999	600
500,000 to 999,999	900
1,000,000 to 1,999,999	1,300
2,000,000 to 4,999,999	1,550
5,000,000 to 9,999,999	2,650
10,000,000 and above	3,000

Table 1.08-1 Schedule of Liquidated Damages

The Engineer will prepare a Punch List only after the work is complete and the Prime Contractor(s) has notified the Engineer, in writing, that the project is ready for review. The Contractor(s) shall do all corrective work within two and one half (2-1/2) weeks after receiving the list. The Prime Contractor(s) shall be responsible for his own and all of the work assigned to him. The Prime Contractor shall also be responsible for his subcontractor's work. If the corrective work is not completed within the 2-1/2 weeks, liquidated damages will be assessed at one-half the above schedule of liquidated damages until final completion. Re-inspection procedure: The Engineer will re-inspect the work upon receipt of notice that the work has been completed, except items whose completion has been delayed because of circumstances acceptable to the Engineer. Upon completion of re-inspection, the Engineer will prepare a certificate of final acceptance, or advise the contractor of work that is incomplete or of obligations that have not been fulfilled but are required for final acceptance.

If the Engineer finds that the work is still incomplete upon the re-inspection of the punch list items, necessitated by unsatisfactory workmanship, construction practices, or failure to adhere to the "Punch List" requirements all additional inspections will be performed for a re-inspection fee of (\$150.00). This fee will be taken off any funds due to the contractor.

5.10 CONTRACTOR RESPONSIBILITY FOR HOLIDAY, NIGHT AND WEEKEND

PROBLEMS

It shall be the Contractor's responsibility to keep all construction areas accessible to the public when streets are not closed. It shall be the Contractor's responsibility to notify the Engineer and the Marquette Police Department of a person responsible to be on call in the City of Marquette during weekends, holidays, and during the night. Failure to designate a responsible person will result in a penalty to the Contractor. If a problem results in no action by the Contractor during the weekend, holiday, or night hours within 3 hours of notification by the Engineer or Marquette Police Department, or if the responsible party cannot be reached, the Contractor will be assessed all costs incurred by the City of Marquette plus \$100.00 damages that will be deducted from the progress payments.

5.11 RESIDENT NOTIFICATION

The contractor shall be required to notify all affected residents in writing at least twenty-four (24) hours in advance of any disruption in water utility service, driveway closing, street closing, or change in phasing and project completion. The written notification shall provide residents with (1) the nature and duration of the closing and (2) the name, address and telephone numbers of the Contractor, the Engineer and appropriate City departments. The form of notification shall be submitted to the Owner for approval at the preconstruction conference. Failure to do so will result in the work stoppage of that particular portion of the work and will not be considered a claim for extension of contract time.

For those cases where the property being affected has multiple housing units such as apartment complexes or multi-family rentals the owner of the property being affected will be notified per the same requirements as the residential notice.

5.12 PRESERVATION OF TREES AND SHRUBBERY

Contractor shall protect and preserve all trees along the line of work. Where necessary to preserve the tree and its main roots, the Contractor shall tunnel or bore under such trees. Where specifically called for on the drawings or directed by the engineer, the Contractor shall remove trees completely, including the stump and main roots.

No trees or shrubbery of any kind shall be removed or destroyed by the Contractor without written permission of the Engineer. Ample precautions shall be taken by Contractor to protect such trees and shrubs as are to remain in place by surrounding them with fences or other protection before construction begins. Shrubby that must be removed shall be preserved and replaced in a manner acceptable to the Owner. The Contractor will be held fully responsible for any damages caused by his work to adjoining trees and shrubs.

5.13 RESTORATION OF PRIVATE PROPERTY

Surface restoration on private property resulting from installation of services will be paid for at contract unit prices, for restoration work within an influence area of ten feet each side of the trench centerline. Any restoration work outside the influence area, or restoration work occasioned by negligence on the part of the contractor shall be made at the contractor's expense.

5.14 SUBMITTAL PROCEDURES

Submittals will include but not be limited to shop drawings, catalogue cuts, manufacturer's certifications, fabrication drawings, samples, testing data (same source no more than one year old), design mixes and the City of Marquette pre-approved material list. Reference will be made to the Michigan Department of Transportation "Material Quality Assurance Procedures Manual" "2020 Standard Specifications for Construction", Materials Sampling Guide" and the City of Marquette Project Specifications.

Schedule submittals well in advance of the need for materials during construction. Allow time to make delivery of material or equipment after submittal is approved.

Develop a submittal schedule that allows sufficient time for initial review, correction, resubmission and final review of all submittals. The City Engineer will review and return submittals to the Contractor as expeditiously as possible, but the amount of time required for review will vary depending on the complexity and quantity of data submitted. This time for review shall in no way be justification for delays or additional compensation to the Contractor.

The City Engineer's review of submittals covers only general conformity to the Drawings, Specifications and dimensions which affect the layout. The Contractor is responsible for quantity determination. No quantities will be verified by the City Engineer. The Contractor is responsible for any errors, omission or deviations from the Contract requirements; review of submittals in no way relieves the Contractor from his obligation to furnish required items according to the Drawing and Specifications.

Submit 3 copies of documents unless otherwise specified in the following paragraphs or in the Specifications. One copy will be sent back to the contractor for their review and records.

Revise and resubmit submittals as required. Identify all changes made since previous submittal.

The Contractor shall assume the risk for material or equipment which is fabricated or delivered prior to approval. No material or equipment shall be incorporated into the work or included in periodic progress payments until approval has been obtained in the specified manner. Material incorporated in the Work without prior approval will be removed at the contractor's expense.

City of Marquette has developed a list of pre-approved materials. The Appendix contains check lists for items which will be considered pre-approved. The contractor shall be required to complete these forms and return them to the City in lieu of shop drawings for these items. The contractor shall still be required to submit any and all submittals required by the contract specifications which have not been approved.

5.15 FORCE ACCOUNT WORK

The Engineer may, at any time during the progress of the contract, order extra work necessary to complete the contract. The Engineer shall furnish the Contractor a work order stating the location, kind and estimated quantity of the extra work to be performed. If the Contract does not have unit prices that apply to the work, the Contractor shall propose, in writing, unit or lump sum price(s) for which extra work will be performed. In the event the parties are unable to reach agreement on unit or lump sum prices, the Engineer may order the work to be performed on a force account basis in accordance with Chapter one of these specifications and the 2020 MDOT Standard Specification for Construction. When the extra work is authorized by the Engineer, the authorization shall become part of the contract.

5.16 HISTORICAL AND ARCHAEOLOGICAL SIGNIFICANCE

If the Contractor's excavating operations encounter artifacts of historical or archaeological significance, the operations shall be temporarily suspended. The Contractor shall notify the Engineer or his/her designee, who will determine if the artifacts are of any value to the City of Marquette for historical purposes. The Contractor shall protect the site in such a manner as to preserve the artifacts encountered. If the artifacts are determined to be of historical importance, the artifacts shall remain the property of the City of Marquette.

Claims for extra compensation due to down time may be directed to the engineer in writing for his review.

5.17 NOTIFICATION OF UNSCHEDULED WEEKEND OR OVERTIME WORK

The Contractor shall give the City Engineer or project manager two (2) working days notice before work commences on an unscheduled weekend or overtime work to allow sufficient time for the City Engineer to schedule inspection coverage. Failure to coordinate this time with work being completed without inspection will result in items of work unapproved. Exceptions will be made for work not requiring full time inspection, such as, landscaping and grading activities.

5.18 DOCUMENTS TO SUBMIT WITH CERTIFIED PAYROLLS

The Contractor shall give the City Engineer or project manager the following documents with the first certified payroll:

A. Fringe benefit statement.

1. Contractor or subcontractor name.
2. Project name
3. General Decision Number
4. Date
5. Employee's name, last 4 digits of social security number, address, work classification.
6. Breakdown of employee's fringe benefits.
7. Hourly pay to include rate and fringe amount.
8. Overtime pay to include rate and fringe amount.

B. W-9 form.

Each certified payroll will be submitted on the U.S. Department of Labor Form WH-347 or equal form. The weekly certified payroll will be numbered sequentially starting with #1. For those weeks where no work was completed the certified payroll will be submitted with **"NO WORK COMPLETED"** across the form.

The subcontractor will submit the above documents to the contractor. These documents will subsequently be forwarded to the City Engineer or project manager.

The contractor will include with each certified payroll the Michigan Department of Transportation's Form 1955.

CITY OF MARQUETTE
CHAPTER 6
STANDARD SPECIFICATIONS

6.01 RESIDENT NOTIFICATION, MAX \$ _____

6.01.01 General Description

The contractor will be required to notify all affected resident in writing of any disruption to their normal day to day activities. The written notification shall provide residents with:

1. The nature and duration of the disruption.
2. The name, address and telephone numbers of the Contractor and the City Engineer's office.
3. Notifications shall not be placed in mailboxes. These will be removed by the postal worker. Please place notifications inside the door where they can be easily seen or as a door hanger.

The form for the notification shall be submitted to the City Engineer for approval prior to distributing to the public.

A copy of every notification will be given to the City Engineer or his representative. Included with the copy of the notification will be a list of the resident names and addresses that received the notification.

For those cases where the property being affected has multiple housing units, such as apartment complexes or multi-family rentals, the owner of the property being affected will be notified per the same requirements as the residential notice.

6.01.02 Requirements

The contractor will be required to notify all affected residents to any disruption per the requirements outlined below.

A. Project Start

1. Letter describing project. What will be constructed and when it will be constructed. This includes all aspects of the project such as parking, driveway access, pedestrian access, utility disruptions, noise, vibrations, project phasing, times of operation, restoration to lawn areas, information on replacement of water and sewer laterals, garbage pickup, mail delivery, etc.
2. Advanced notice for this letter will be 7 days.

B. Active Construction Work

1. Includes all work during the construction of the project that will disrupt the day to day activities of the resident. This will include parking, driveway access, pedestrian access, utility disruptions, project phasing or changes in the phasing, changes in the hours of operation, lawn care, replacement of water and sewer laterals, garbage pickup, mail delivery, etc.
2. Advanced notice for this letter or door hanger will be 3 days.

C. Emergency Work

- 1. Includes all emergency related work. Includes water shut offs, gas leaks, sanitary sewer issues, power issues, etc.
- 2. Notice will be immediate. Door to door verbal notification.

Failure to notify the residents or businesses per the above requirements will result in a deduction from the pay item for this item of work. Deductions will be made on a flat rate monetary basis and increase per occurrence as outlined under the measurement and payment section below.

6.01.03 Measurement & Payments

Measurement shall be a maximum amount as called out by the pay item on a lump sum basis. Payment shall be compensation in full for all material, equipment and labor required for all notifications required during the course of construction of this project.

OCCURRENCE	MONETARY DEDUCTION FROM PAY ITEM
1	\$200
2	\$300
3	\$400
4+	\$500

<u>Pay Item</u>	<u>Pay Unit</u>
Resident Notification, Max \$_____	LS

CITY OF MARQUETTE
CHAPTER 7
SUPPLEMENTAL SPECIFICATIONS

7.01 MOBILIZATION

A. General Description

Section 110 of the Michigan Department of Transportation 2020 Standard Specifications for Construction is hereby deleted and replaced with the following: This item shall consist of preparatory work and operations, including, but not limited to the following:

1. The movement of personnel, equipment, supplies, and incidentals to the project site.
2. The establishment of the Contractor's offices, buildings, and other facilities to work on the project.
3. Other work and operations that must be performed.
4. Expenses incurred, prior to beginning work on the various contract items on the project site.
5. Pre-construction costs, exclusive of bidding costs, which are necessary direct costs to the project rather than directly attributable to other pay items under the contract.

B. Measure & Payment

The completed work as measured for MOBILIZATION will be paid for at the contract unit price for the following contract item (pay item).

<u>Pay Item</u>	<u>Pay Unit</u>
Mobilization, Max \$ _____	LS

Mobilization will be measured as a lump sum. The pay item will state the maximum amount that can be bid. When the percentage of the original contract amount earned is less than 5 percent, the costs of project specific bonding, insurances and permits will be reimbursed when a paid invoice is received by the Engineer. The costs of these will then be subtracted from the total amount bid for Mobilization. Partial payments will be made in accordance with the Partial Payment Schedule shown below. The original contract amount is the total value of all contract items including the mobilization item. The percentage earned is exclusive of the mobilization item.

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. Nothing herein shall be construed to limit or preclude partial payments otherwise provided by the contract.

Partial Payment Schedule

<u>Percentage of Original Contract Amount</u> <u>Earned</u>	<u>Percentage of Bid Price for Mobilization</u> <u>Allowed</u>
5	50
10	75
25	100

When a pay item for mobilization is not included in the request for proposal, payment for

any such work required is considered to have been included in payments made for other items of work.

7.02 DISPOSAL OF SURPLUS & UNSUITABLE MATERIAL

A. General Description

The Contractor shall dispose of surplus and unsuitable material outside of the right-of-way of the Project area. The Contractor shall obtain and file with the Engineer, written permission from the owner of the property on which the material is to be placed. Surplus and unsuitable materials shall not be disposed of in any areas defined as wetlands or flood plains without obtaining permits from the regulatory agencies having jurisdiction over such land use. The Contractor shall be responsible for and obtain any necessary permits pertaining to compliance with the Soil Erosion and Sedimentation Control Act, for disposal areas. Cost of obtaining any permits relating to disposal sites shall be included in the unit bid price for Peat Excavation, Section 205 of the 2020 Standard Specifications.

7.03 TOPSOIL SURFACE, 4 INCH

A. General

Section 816 of the MDOT 2020 Standard Specifications shall be supplemented herein to further define the requirements for topsoil surface to be furnished and placed on the areas designated for turf establishment within the C.I.A. (Construction Influence Area).

B. Specification for Topsoil

Topsoil shall consist of friable soil, capable of generating acceptable plant growth, reasonably free of grass, roots, weeds, sticks, stones or other foreign materials. The topsoil material proposed for the project shall be approved by the Engineer prior to placement. Topsoil shall be placed 4 inches thick compacted in place. The United States Department of Agriculture (U.S.D.A.) specification requirements for acceptable topsoil as applied in the Marquette area shall apply. Soil composition should contain an organic content of 2 to 6 percent and be classified as a loam or sandy loam as specified by the "Guide for U.S.D.A. Soil Textural Classification".

C. Construction Methods

It is expected that the Contractor will have to supplement the existing surface soil encountered on the project. The Contractor shall stockpile the surface soil stripped from the C.I.A. for future reuse. The Engineer will review the material for its suitability as approved topsoil.

If topsoil material is required to supplement that salvaged from the C.I.A. or if insufficient topsoil is salvageable from the site the Contractor shall furnish material approved by the Engineer.

D. Topsoil Source Approval

The contractor shall furnish proposed topsoil material sources at the preconstruction conference for review by the Engineer. The sources will be reviewed by the Engineer for

acceptability of use on the project for the turf growing application proposed.

The sources will include test data per USDA classifications. Classifications will be sandy loam, sandy clay loam, loam, clay loam, and silt loam. The frequency of the tests will per ASTM D2487. Table 2 presents some guidelines for evaluating the topsoil source.

Table 2. Desired Levels of Soil Nutrients

PH	5.8 to 6.2
Phosphorus (P-I)	Index of 50
Potassium (K-I)	Index of 50
Calcium (Ca%)	40-60% of CEC*
Magnesium (Mg%)	8-10% of CEC*
Base Saturation (BS%)	60-80% of CEC*
Manganese (Mn-I)	Index >25
Zinc (Zn-I)	Index >25
Copper (Cu-I)	Index >25

CEC = Cation Exchange Capacity = Ca + Mg + K + Acidity;
 CEC is a measure of the quantity of nutrients a soil will hold.
 $Ca\% = [(Ca/CEC) \times 100]$
 $Mg\% = [(Mg/CEC) \times 100]$

The Contractor is responsible for researching and acquiring rights to topsoil sources and the furnishing, hauling, and placement of the topsoil.

E. Method of Measurement and Payment

Payment shall be made at the contract unit price per cubic yard for topsoil material required. The contract unit price will be payment in full for testing, hauling, placing and compacting of the material at the locations required.

<u>Pay Item</u>	<u>Pay Unit</u>
Topsoil Surface, 4 Inch	Syd

7.04 BITUMINOUS MIXTURES

A. General Description

This work shall consist of furnishing and placing bituminous base and surface course mixtures in accordance with the 2020 MDOT Standard Specifications, as applicable.

B. Aggregate

The aggregate used in the bituminous mixture shall meet the gradation and physical requirements specified in the 2020 Standard Specifications.

C. Construction Requirements

Surface preparation. Immediately prior to applying the paving mixture the surface shall be thoroughly cleaned of all vegetation, loose materials, dirt, mud, and other objectionable materials. All standing water shall be removed prior to applying the paving mixture.

The Contractor will ensure that manhole, drainage structure, and water valve covers located in areas within the finished asphalt or concrete surface are flush with the finished elevation of the paved surface. No “dishing” of the asphalt will be allowed around the structure covers on the finished paved surface.

The seam where two passes join shall be neat appearing and uniform. If, in the opinion of the Engineer, the seam is irregular, rough or elevated above the adjacent matt surface, the seam area will be repaired by the Contractor at the Contractor’s expense. If, in the opinion of the Engineer, the seam is not tight and uniform in appearance the seam will be repaired by the Contractor at the Contractor’s expense.

Pavement joints may be constructed as a vertical joint or tapered joint. Tapered joints will be constructed in the following way: Construct the tapered overlapping longitudinal joint by tapering the HMA mat at a slope no greater than 1:12 and extend the tapered portion beyond the normal lane width. Place a 0.5 to 1-inch notch at the top of the taper on all courses of paving.

Pave the adjacent lane within 24 hours, unless delayed by inclement weather. All cold paving joints will have a bond coat applied on them prior to placement of pavement adjacent to the joint. Density requirements for all paving joints will be per the supplemental specification *ACCEPTANCE OF HOT MIX ASPHALT MIXTURES*.

Final density requirements for the entire pavement, including the taper area, will remain unchanged. Compact the initial taper section as near to final density as possible. Apply a weighted roller, as wide as the taper, to the taper section of the pavement.

All excess material that overruns in gutters shall be removed or squeegeed back as directed by the Engineer.

All excess material shall be removed from the ends of the job site immediately. When needed, all joints, radii, ends and returns will be squeegeed to a uniform appearance as directed by the Engineer.

All material tracked or lost past the ends of the job site shall be cleaned up before the paving crew leaves for the next location.

D. Traffic Control

The Contractor shall provide signs, barricades and flaggers necessary to control traffic around the area under construction. Application of the mixture shall be suspended early

enough each day to permit traffic to safely travel over the completed work before dark. Any damage done by traffic to the asphalt surface shall be repaired by the Contractor at the Contractor's expense. Barricades, signs and other warning devices will be in accordance with the 2011 Michigan Manual on Uniform Traffic Control Device. A written traffic control plan or schematic shall be provided by the Contractor for the Engineer's approval prior to beginning the work. All materials, labor, equipment and appurtenances required for the control of traffic for asphalt placement shall be considered incidental to the asphalt placement unless otherwise noted in the plans or these specifications.

E. Thickness Tolerance

A depth tolerance not to exceed $\frac{1}{4}$ inch from the nominal thickness required (per plan) for the course specified under one pay item will be acceptable where the required nominal thickness is 2 inches or less. A tolerance not to exceed $\frac{1}{2}$ inch from the nominal thickness required for the course or courses specified under one pay item will be acceptable where the required nominal thickness is equal to or over 2 $\frac{1}{2}$ inches.

Measurement will be based on the weight of the HMA and planimetric area of the paving limits.

F. Notification Requirements

The Contractor will make every effort to notify the property owner's and/or tenants the day prior to placement of the HMA top course in the area under consideration. The Contractor will make every effort to contact the said property owner's and/or tenants 24 hours prior to the placement of the HMA either by verbal, written communication, or a combination of both. "Police Order No Parking Signs" may be borrowed from the City of Marquette Public Works Department to further expedite and reinforce the temporary parking and street usage ban. All signage will be returned to promptly to the Public Works Department following the removal of the signage from the street area. Failure to do so will result in the Contractor being prohibited from further borrowing transactions.

G. Ride Quality Requirements (Cold Mill and Overlay, Crush & Shape and New Construction)

The Contractor will perform all ride quality measurements. On cold mill and overlay projects this will include measurements on the original and final pavement surfaces. On crush & shape and new construction ride quality measurements are required on the final surface. The cost of performing these ride quality measurements will be included in the cost of other contract items and will not be paid for separately. These ride quality requirements must be met for the initial acceptance of warranted HMA pavement.

The profiler to be used must be GM type rapid travel profiler, as stated in MTM 726- *Michigan Test Method for Determining Ride Quality Using a GM Type Rapid Travel Profilometer*.

The pavement ride quality, for each warranty lane, must meet the following criteria subsequent to the HMA overlay,

1. Each individual 528-foot segment of each lane must have an IRI value equal to or lower than the initial value prior to the overlay.
2. For cold mill and overlay projects the overall average for each lane must be improved by 30 percent from the initial IRI value. For crush & shape and new construction projects the IRI must be equal to or less than 100.

a) Excluded Areas

- i. Areas surrounding manholes and utility and drainage structures will be designated as excluded areas. The excluded area will extend 10 feet on each side of the structure.
- ii. Areas where the new pavement must match grades of an existing feature (e.g. curb and gutter or an existing lane that will not be overlaid).
- iii. Major intersections (where traffic flow is maintained during construction). The excluded area will extend between the approach and the departure spring

- points of the intersection.
- iv.** Existing defects in the pavement remaining (e.g. existing pot hole areas) after cold milling.

- b)** The excluded areas will be identified in writing to the Engineer prior to measurement.

3. If corrective action is required repairs shall be made at the Contractors expense. This corrective action includes bump grinding by an approved method, mill and replace HMA pavement or other approved method. The Contractor will analyze the ride quality data and determine the area or areas needing correction. After corrective work the Contractor shall again perform ride quality measurements. If ride quality criteria are not met additional corrective work and measurement may be required.

4. Condition Parameters

Condition parameters are used to measure the performance of the HMA pavement during the warranty term. Each condition parameter has a threshold level applied to each segment and a maximum number of defective segments allowed before corrective action (warranty work) is required. Condition parameters will follow the “Michigan Local Agency Special Provision for Warranty Work Requirements for Hot Mix Asphalt Pavements”.

5. Warranty Requirements

Warranty requirements will follow the “Michigan Local Agency Special Provision for Warranty Work Requirements for Hot Mix Asphalt Pavements”.

6. Operational Time Period

Per the act of the City Commission, the time period between the milling and paving operations will be at a maximum of three weeks. This will allow ample time to adjust structures, repair curbing, and repair subbase if required. This requirement will minimize the disruption to the public and minimize the potential for physical injury or vehicular damage. Failure to meet this requirement will result in liquidated damages for every day that exceeds the three week period.

H. Measurement & Payment

Payment shall be made at the contract unit price per ton for HMA material required. The contract unit price will be payment in full for hauling, placing and compacting of the material at the locations required.

*Air voids will be regressed to 3% on all HMA mixtures in this project by increasing the binder content.

7.05 REMOVING PAVEMENT

A. General Description

The 2020 MDOT Standard Specifications for construction is hereby modified to include removal of all bituminous pavements on this project regardless of thickness. Removal will be paid as “Earth Excavation” unless otherwise indicated on the plans.

7.06 REMOVING SIDEWALK

A. General Description

Section 204 of the MDOT 2020 Standard Specifications for Construction for the item of removing sidewalk is modified as follows:

Removing concrete driveways will be paid as removing sidewalk.

7.07 SOIL EROSION AND SEDIMENTATION CONTROL

A. General Description

This section is added to section 208 of the MDOT 2020 Standard Specifications for Construction.

B. Scope of Work

The Contractor shall be responsible for all erosion and sedimentation control measures as required to prevent erosion of slopes and to prevent sediment from entering existing streams, ponds, or storm sewers. This shall apply not only to public rights-of-way, but also private properties adjacent to or downstream of the construction influence area (CIA). Soil erosion and sediment control measures shall include silt fence, culvert sediment traps, excavated sediment traps, sand bags, and other such effective measures necessary to control erosion or as may be directed by the engineer.

The project contains a soil erosion and sedimentation control plan. The Contractor shall use this plan as a guide to minimum requirements.

In addition to the measures listed above and shown on the plans, the Contractor shall stage his work so as to minimize the potential for erosion and sedimentation. For example: Graveling and permanent restoration work shall closely follow the grading operation. If an area is subject to erosion, the contractor shall take immediate steps to prevent sediment from leaving the construction area.

Stockpiles of soils prone to erosion that will be stored in the right of way will be required to have tarp coverage. In addition the uphill end of the stockpile shall be sand bagged on the uphill end in an arc to divert any concentrated flows.

It shall be the Contractor's responsibility to monitor the National Weather Services predictions and to avoid working an area subject to erosion if weather conditions are predicted to include moderate to heavy precipitation.

The Contractor shall have on staff a certified storm water operator and report weekly on the status of soil control measures and proposed activities for the following week.

C. Measurement & Payment

Payment shall be made for the item of soil erosion and sedimentation control on a lump sum basis. The Contractor shall include all costs for construction and maintenance for erosion control measures in the item of soil erosion and sedimentation control.

If at any time the potential for erosion or sedimentation loss exists the City Engineer may stop work until the condition is corrected. Failure to make these corrections after repeated discussions will result in the City of Marquette Public Works Department doing these repairs with the cost of making such repairs being deducted from the contract.

Partial payments will be made on a percentage of plan erosion control measures placed.

<u>Pay Item</u>	<u>Pay Unit</u>
Soil Erosion and Sedimentation Control	LSUM

7.08 CONTRACTORS WHEN WORKING NEAR NATURAL GAS FACILITIES
SEMCO ENERGY GAS COMPANY

1. Contractor shall use nylon straps to support SEMCOENERGY pipelines at a minimum spacing of twenty (20) feet. Chains or cables are not allowed to support natural gas pipelines.
2. When encountered and supported, SEMCOENERGY pipelines will be relocated in its original trench line location, at a depth of 36" to 60" in depth depending on depth requirements at that location. Tracer wire must be placed 6" above the pipe. (To prevent damage to plastic pipeline from lightning strike).
3. Any pipe trenches that cross or at driveways where undisturbed soils and disturbed soils meet shall be backfilled using MDOT Class II sand backfill that is compacted to 95% density. (Over and Under Gas Lines to prevent shear off).
4. When natural gas lines are adjacent to manholes or drainage structures, the Natural Gas Lines will be wrapped with "rock shield or approved material" to protect from abrasion. "Rock shield or approved material" will be provided by SEMCOENERGY upon request from the contractor.
5. When blasting around natural gas facilities (mains and service) are planned, SEMCOENERGY will survey the area in question for leaks (before and after blasting). Also if blasting is performed in close proximity to SEMCOENERGY facilities (will be determined by SEMCOENERGY Engineering), all natural gas facilities will be exposed by the Contractor doing the work and then inspected by SEMCOENERGY. The Contractor will be responsible for exposing, shielding, backfilling and compacting (with sand) all SEMCOENERGY Natural Gas facilities prior to blasting. Once blasting has been completed, the Natural gas facilities will be resurveyed for leaks. Contractor will expose the natural gas facilities for inspection if deemed necessary by SEMCOENERGY after blasting.
6. Contractor shall immediately alert SEMCOENERGY if tracer wire, coating or test stations are damaged during construction so that SEMCOENERGY can make repairs when tracer wire, coating or test stations are still exposed. (Not buried) If buried the contractor will be charge time and material for repairs.
7. As per Public Act 53 of 1974, The Contractor shall call Miss Dig (800-4827171) a minimum of three (3) full working days, excluding Saturdays, Sundays and Holiday prior to beginning each excavation in area where public utilities have not been previously located.
8. SEMCOENERGY Northern Division Contact Personnel
Office (800) 624-2019
Jeff Jackovich, Operations Technician II, ext. 5914
Jeff Gregorich, Operations Supervisor, ext. 5170
Mark Kachur, Manager, ext. 5906
Jan Dobson, Operation Administration Assistant, ext. 5902

In case of emergency contact SEMCOENERGY Gas Dispatch at (888) 427-1427

7.09 SIDEWALK RAMP, ADA

A. General Description

Section 803, "Concrete Sidewalk, Curb Ramps, and Steps" of the 2020 MDOT Standard Specifications for construction is hereby supplemented to include the following:

This work shall consist of furnishing all material, equipment, tools and labor necessary for the placement of concrete sidewalk ramps with detectable warning surfaces complete and ready for service at location(s) specified in the contract documents, construction plans or as directed by the Engineer. All work shall be in accordance with the details and standards as specified by the Americans with Disabilities Act of 1990 (ADA) or any amendments thereto.

B. Construction Requirements

The detectable warning surface shall be ADA compliant cast in place tactile surface with brick red color or approved equal as manufactured by ADA Solutions, Access Products Inc., AlertTiles, Engineered Plastics, Inc., or approved equal.

Pattern and dimensions of the detectable warning surface shall incorporate an "in-line" dome pattern of truncated domes 0.2" in height, 0.9" diameter at the base and 0.45" diameter at top of dome. Domes should be spaced no greater than 2 $\frac{3}{8}$ " from center to center. The field area of the detectable warning surface should consist of raised points no greater than 0.045", to create a non-slip surface for wheelchair safety. The pavers will be 2 $\frac{3}{4}$ " in thickness.

Overall dimensions of the detectable warning surface shall be in accordance with the details and standards as specified by the Americans with Disabilities Act of 1990 (ADA) or any amendments thereto.

Curb Ramps shall be 6" thick. The finished surface of the curb ramp and transition slope ramps shall be uniformly profiled to match the adjoining surfaces without lips or obstructions and shall drain completely. The location and orientation of the curb ramps shall be constructed as specified by the Americans with Disabilities Act of 1990 (ADA) or any amendments thereto.

Where a curb ramp is constructed within the existing curb, combination curb and gutter and/or sidewalk, the existing curb or combination curb and gutter shall be removed to the nearest joint beyond the curb transitions or to the extent that no remaining section of curb or curb and gutter is less than 5' long. The existing sidewalk shall be removed to the nearest joint beyond the transition slope ramps or walk around or to the extent that no remaining section of sidewalk is less than 5' long.

Detectable warning surface shall extend the full width of the curb ramp or landing and in the direction of travel 30" from the back of curb. The detectable warning surface shall not be installed on the transition slope ramps. The detectable warning surface shall be located so that the edge nearest the curb line is 6" from the back of curb unless noted in the contract documents.

Domes shall be aligned on a square grid, aligned in rows parallel and perpendicular to the predominant direction of travel. The domes must be not skewed diagonally to the direction of travel.

All detectable warning pavers will be set in the concrete using thin mortar set installation. The Contractor and material manufacturer shall jointly warrant the installed detectable warning surface to last no less than two years without losing more than one percent of the truncated

domes due to delaminating as a result of product failure. Product failure will include all spalling, pop outs, cracking, scaling, improper subgrade compaction, and loss of original coloring.

C. Measurement & Payment

Measurement and payment will per section 803 of the 2020 MDOT Standard Specifications for construction

7.10 SOD

A. General

This section describes furnishing and laying live sod on lawn areas, shoulders, slopes, ditches, or at other designated locations, as the plans show, the contract specifies or as the engineer directs.

B. Materials

1. Sod

- a)** The sod shall consist of a dense, well-rooted growth of permanent and desirable grasses, indigenous to the general locality it is to be placed, that is practicably free from weeds or undesirable grasses. When cutting the sod, the grass should be approximately 2 inches long. If longer, cut the grass to approximately this length and rake the sod free of debris.
- b)** Cut the sod in uniform commercial size strips.
- c)** Make the sod thickness as uniform as possible, approximately 3/4 inch or more, depending on the nature of the sod, so that practicably all of the dense root system is retained, but exposed, in the sod strip and so that handling the sod causes no undue tearing or breaking.
- d)** If the sod is in a dry condition such that cutting it causes crumbling or breaking, the contractor shall, at least 12 hours before cutting, apply water to it in sufficient quantities to provide a well-moistened sod throughout the depth it is cut.
- e)** Sod provided under for lawns shall have a lush appearance, be dense, have a uniform texture, and be bright in color throughout. The sod shall not contain blade widths of 1/4 inch or greater. Provide a weed free sod that contains no more than 3/8 inch of thatch over the base soil. The sod shall consist of a blend or mix of at least 4 fine-leaved turf grasses. At least 2/3 of the grasses by weight, as determined by initial seeding proportions, consists of improved/elite type Kentucky bluegrass varieties.
- f)** Sod used for soil erosion control, ditches, shoulders, will be a low maintenance type, dense, and of uniform texture. Provide a sod free of noxious weeds and that contains a combined total of 3 percent or less grassy weeds, sedges, broadleaf weeds, or coarse grasses. The sod shall consist of a blend or mix of at least 4 fine-leaved turf grasses. At least 70 percent of the grasses by weight, as determined by initial seeding proportions, shall consist of acceptable low maintenance varieties or species as listed by the University of Wisconsin, Madison, horticulture department, turf grass extension.

2. Water

- a) When watering sodded areas, use clean water, free of impurities or substances that might injure the sod.

C. Construction

1. Preparing the Earth Bed

Before sodding, construct the proposed area to the required cross-section and contour, and round the tops and bottoms of the slopes to a minimum 4-foot radius curve. Ensure that the sodded areas are free from stones, roots, or other undesirable foreign material. Loosen the soil on the sodded area to at least one inch deep and bring it to a reasonably fine granular texture by equipment or hand methods adapted to the purpose.

2. *Placing the Sod*

- a) Moisten the earth bed that the sod is being placed on to the loosened depth, if not naturally sufficiently moist. Do not place frozen sod, nor place sod on frozen soil. Place the sod on the bed within approximately 24 hours after cutting. Lay the sod so that the joints at abutting ends of sod strips are not continuous. Lay each sod strip to abut snugly against the previously laid strip.
- b) Lay sod in strips of commercial size where possible. Do not lay partial-size strips of sod smaller than 18 inches by 24 inches. When laying the sod, roll it or firmly but lightly tamp with suitable wooden or metal tampers to set or press the sod into the underlying soil.
- c) At points where water will flow over a sodded area, turn the upper edges of the sod strips into the soil below the adjacent area and place a layer of earth over this juncture. Compact the earth thoroughly so surface water flows over the upper edge of the sod.
- d) At the limits of sodded areas, if possible, place the end strips to achieve a broken line, and turn the ends of the strips in and treat as described above.

3. Staking and Cleanup

- a) On all slopes steeper than one unit vertical to 4 units horizontal (1:4), stake the sod, or peg with pieces of plasterers' lath or equivalent stakes, at least 6 inches long, spaced as the soil nature and slope steepness dictate, from 18 to 36 inches apart along the length of the sod strip. If possible, place stakes near the top edge of the sod strip and drive plumb through the sod. After installing, stakes should hold the sod firmly in place and present no danger to pedestrians or mowing crews.
- b) Stake all sod placed in ditches, flumes, or other drainage components, where a concentrated flow of water is expected, regardless of the slope. After completing the surface staking, clear the surface of loose sod, excess soil, or other foreign material.

4. Watering

Watering will be incidental to sod placement. Furnish and apply water to sodded areas. After staking and cleanup, moisten the sod every day for the first week thoroughly by sprinkling with water. Keep all sodded areas thoroughly moist by watering or sprinkling if rainfall is not enough to achieve a shallow root system to the earth bed. In order to encourage deep root growth, slowly start watering the sod less after the first week for another two weeks. Irrigating the sod with a lot of water, but not every day will encourage the sod to send out deeper roots. The roots must reach deeper to find moisture. The contractor will water for 3 weeks after sod placement or as the engineer directs. After this 3-week period the homeowner will be responsible for the continued watering and care of the newly sodded area.

D. Measurement & Payment

The department will measure sod intended for lawn use, for soil erosion control, ditches, and shoulder areas by the square yard acceptably completed. Payment for Sodding, Class __ is full compensation for preparing the earth bed; and for furnishing, placing, staking, and rolling the sod. Payment also includes watering if the contract does not contain the Sod Water bid item.

<u>Pay Item</u>	<u>Pay Unit</u>
Sodding, Class____	Syd

7.11 CONCRETE CURB, GUTTER, AND SIDEWALK

A. General Description

Section 802 and 803 of the MDOT 2020 Standard Specifications shall be supplemented herein to further define the requirements for concrete curb, gutter and sidewalk.

B. Construction Materials

All concrete mixtures for curbing will have the addition of polypropylene fibers. The 28 day minimum compressive strength will be 3500 psi. Fiberglass fibers must conform to ASTM C 1666. Fibers must be introduced and mixed according to ASTM C 192. Approved material source is Axim (Fibrasol IIP).

C. Construction and Repair Methods

The contractor is responsible for all damage to the concrete before acceptance by the City of Marquette. Concrete sidewalk slabs and curbing that have graffiti, footprints, etc. shall be replaced or repaired according to the following criteria.

1. Cured Concrete

Damage done to the slab or curbing shall require removal and new slab or curbing poured. Shallow damage (1/8” or less) can be rubbed out as long as the area repaired is indistinguishable from the adjoining surface.

2. Fresh Concrete

Damage done to the slab or curbing shall require refinishing such that it is indistinguishable from the adjoining surface. Adding water to the surface of the concrete to improve workability will not be allowed.

Sidewalk slabs requiring removal shall be removed in their entirety. Partial square removal will not be allowed.

3. Curbing that requires removal shall be removed by saw cutting perpendicular to the face of the curb as necessary and lifting or sliding out the section in its entirety to the nearest control joint. The minimum section length of removal will be 3 foot.

4. Roots that may be encountered in the trench, underneath the sidewalk, or in the curb line from an adjacent tree will require the removal of the roots to proceed with construction. When directed to do so by the engineer, the contractor shall remove the roots by cutting or sawing, but not by use of a hydraulic backhoe. This may involve cutting out the entire root(s), and/or cutting out a section out of a large root.

5. Surface Treatment for Concrete

All concrete surfaces will be treated with a curing and sealing compound specifically formulated to protect the concrete from moisture and de-icing salts.

7.12 QUALITY CONTROL AND ACCEPTANCE OF PORTLAND CEMENT CONCRETE

A. General Description

The Contractor must administer quality control (QC) and the City of Marquette will administer quality assurance (QA) procedures that will be used for acceptance of and payment for all Portland cement concrete (PCC) for the project. Except as explicitly modified by this specification, all materials, test methods, and PCC mixture requirements of the 2020 MDOT standard specifications and the contract apply.

B. Definitions

1. Quality Assurance (QA)

Activities administered by the City of Marquette or designated personnel dealing with acceptance of the product, including, but not limited to, materials selection, sampling, testing, construction inspection, and review of Contractor QC documentation. All concrete QA sampling and testing will be administered by the City or designated Project Engineer, here forward referred to as Engineer.

2. Quality Control (QC)

All activities administered by the Contractor to monitor, assess, and adjust production and placement processes to ensure the final product will meet the specified levels of quality, including, but not limited to, training, materials selection, sampling, testing, project oversight and documentation. Contractor administered QC is described in this specification.

3. Sampling Rate

The number of times the fresh concrete is sampled per sub-lot, as described in this specification.

4. Lot Size

The total volume of concrete, broken out by type, to be placed for the entire project based on planned quantities. (a separate distinction will be made for concrete with fiber reinforcement in it).

5. Sub-Lot Size

Maximum sub-lot sizes will be 50 CYD per concrete type. Sub-lots will typically be ½ of a project phase for concrete curb and flatwork (1/2 city block or 1 side of city block).

6. Small Quantity Placement

A single day's placement of less than 20 cubic yards of concrete used for non-structural or non-pavement related applications. Structural applications refer to foundation or footing placements.

C. QC Plan Requirements

1. Contractor Quality Control Plan (QC Plan)

Prepare, implement, and maintain a QC plan for concrete, specific to the project, that will provide quality oversight for production, testing, and control of construction processes. The QC plan must be in conformance with the contract and must identify all procedures used to control production and placement including when to initiate corrective action necessary to maintain the quality and uniformity of the work. Develop concrete mix designs and JMFs, as specified, and conduct QC sampling, testing, and inspection during all phases of the concrete work at the minimum frequency, or at an increased frequency sufficient to ensure that the work conforms to specification requirements.

Project-specific items required in the QC plan include following:

- a) Organization Chart.
- b) QC Plan Administrator and contact information.
- c) The name(s) and credentials of the QC staff.
- d) Documentation, procedures and submittals.
- e) Project and Plant specifics.
- f) Concrete production facilities inspections and certifications.
- g) Current testing equipment calibration documentation including calibration factor.
- h) Testing and initial field curing facilities for QC strength test specimens (AASHTO T 23/ASTM C 31).
- i) Stockpile management plan.
- j) Corrective action plan.
- k) control charts with action and suspension limits.
- l) Mix design and JMFs.
- m) Proposed production lot size and location for use of each JMF on the project.
- n) Frequency of sampling and testing.
- o) Finishing and curing procedure.
- p) List of QC records to be submitted to the Engineer in accordance with this special provision.

2. QC Records

Maintain complete records of all QC tests and inspections. Document what action was taken to correct deficiencies. Include sufficient information to allow the test results to be correlated with the items of work represented.

Furnish one copy of all QC records to the Engineer within 5 days after the testing is completed. The Engineer will withhold acceptance of the concrete, and the Contractor will forfeit eligibility for dispute resolution consideration described in this specification if this is not completed.

If the Engineer's technician or testing consultant, here forward referred to as QA

technician, is performing QA sampling and testing at the same time the Contractor is performing QC sampling and testing, this needs to be noted in the QC records. Individuals performing QC tests must demonstrate that they are proficient and capable of sampling and testing concrete or aggregate, where applicable, in accordance with the associated test procedures and Department requirements prior to commencement of related work. Any adjustments to the JMF must be made by a certified concrete technician (Michigan Concrete Association (MCA) Michigan Level II).

D. QC Sampling and Testing Requirements

The Contractor will conduct startup testing each day for air temperature and slump. If startup testing fails to meet testing specifications, adjustments can be made to bring the mix into compliance per MCA/ ACI standards. If correction is not possible, the truck will be rejected. The following truck is to be tested if concrete the first truck required rejection or corrections to the mix.

In addition to startup testing, the contractor will randomly test 1 concrete load per sub-lot for proper air, temperature, slump and strength cylinders.

For small quantity placement, as defined in this specification, QC sampling can be reduced to a minimum of one startup test at the beginning of each week of placement or further reduced as determined by the Engineer.

E. QA Sampling and Testing requirements

The QA technician will randomly sample and test concrete for acceptance at a minimum of 1 time per sub-lot for air, slump, temp and strength cylinders unless otherwise decided. The Engineer reserves the right to waive QA testing for a portion of or the entire project. A sub-lot will be a maximum of 50 CYD per concrete type (a separate distinction will be made for concrete with fiber in it). Sub-lots will typically be ½ of a project phase for concrete curb and flatwork (1/2 city block or 1 side of city block).

The QA technician, at their discretion may conduct startup testing. It is recommended that side by side comparison startup testing be conducted at the beginning of each project to verify accuracy of the testing equipment.

If time and resources are not available for QA acceptance testing on a portion of, or the entire project, QC sampling will still be required. No price adjustments will be made based on QC testing results.

F. QA Acceptance Testing Action Limits

1. Air Content

If the tested percentage of air is up to 1.0% outside of the specified limits as stated in the 2020 MDOT Standard Specifications for Construction, the concrete sub-lot will be subject to a 15% reduction in payment.

If the tested percentage of air is greater than 1.0% outside of the specified limits as stated in the 2020 MDOT Standard Specifications for Construction, the concrete sub-lot will be subject to a 5 year extended warranty and a 30% reduction in payment or removal and replacement as determined by the Engineer.

No payment will be made for concrete placed until the City receives a warranty guarantee document from the contractor.

2. Strength Cylinders (non-structural placement)

Two 28 day strength cylinders will be taken for each sub-lot of concrete. If the first 28 day strength cylinder falls below the specified strength, the second cylinder will be tested. If after testing both cylinders the concrete strength still falls outside of the specified limit, the following actions will be taken.

- a) Up to 500 psi below specified strength: a reduction in payment will be made based on the following pay factor. $PF = \text{cylinder break strength} / \text{specified strength}$.
- b) Beyond 500 psi below specified strength: Subject to further investigation and possible removal and replacement.

Note: reductions in payment is based on the higher value of the two cylinder breaks. There will be no positive pay adjustments made.

3. Slump

If slump is found to exceed specifications limits during startup or acceptance testing, the contractor will be notified, and the slump must be brought to within conformance on the next truck. Failure to do so will result in the rejection of subsequent trucks.

4. Temperature

If temperature is found to exceed specification limits, during startup or acceptance testing, the contractor will be notified, and the temperature must be brought to within conformance on the next truck. Failure to do so will result in the rejection of subsequent trucks.

G. QA/QC Dispute Resolution

If QA tests are disputed, an average of the QA and QC results may be used to calculate reductions in payment.

QC test results will not be factored into payment reductions for any reason other than that listed above. The primary purpose of QC testing is to provide feedback to the contractor to ensure a quality product.

References (includes portions/ modified portions of the below specification)

- 1) MDOT Special Provision for Quality Control and Acceptance of Portland Cement Concrete 12SP-604B-07

7.13 Root Removal

A. General Description

Cut and remove all roots to a depth of 6” below the bottom of sidewalk in areas of proposed sidewalk replacement.

B. Measure & Payment

Root Removal will be measured and paid by the square yard of removal area under proposed sidewalk at the contract unit price.

<u>Pay Item</u>	<u>Pay Unit</u>
Root Removal	Syd

7.14 TRAFFIC CONTROL

A. GENERAL

Work performed under this contract will be accomplished under a variety of traffic situations. This necessitates a need for proper traffic control devices to be available for use. All signs and barricades shall be in accordance with the 2011 Michigan Manual of Uniform Traffic Control Devices.

B. ITEMS REQUIRED

In addition to signage shown in traffic control plans, the Contractor will be required to have at a minimum, the following traffic control items available for use throughout the life of this project:

Type III Barricade	4 Each
Plastic Drum, High Intensity	15 Each
W20 – 1 Construction Ahead	3 Each
W20 – 4 One Lane Road Ahead	2 Each
W20 – 15 Be Prepared to Stop	2 Each
W20 - 7a Flag Person	2 Each
R11 – 4 Road Closed to Thru Traffic	2 Each
Channelizing devices	50 Each

Additional signage may be required depending on the contractors proposed traffic control plan (plans must conform to the 2011 MMUTCD). All temporary signs shall be M.D.O.T. type "A" with a reflectorized background and legend. Any short-term construction detours will be approved prior to placement by the City Engineer.

C. MEASUREMENT AND PAYMENT

Traffic Control will be paid for on a lump sum basis and will be considered payment for traffic control usage for the entire scope of the project. This includes all road related work, utility work, crack sealing and restoration.

<u>Pay Item</u>	<u>Pay Unit</u>
Traffic Control	LS

7.15 Sign, W11-15 W/ Flashing LED, Solar, Fluorescent Yellow

A. Description

The pay item covers the materials for and installation of a 30"x30" fluorescent yellow green W11-15 Type IX reflective sign with yellow flashing LEDs around the perimeter as well as, the solar cell and batteries necessary for 24/7 flashing operation. Lights are to flash at a rate of 50-60 times per minute. "Flashing LED W11-15 Share the Road Sign SKU: SOLAR – W11-15" sold by Dornbos Sign and Safety or approved equal.

B. Construction Methods

The Contractor shall install the sign per the detail included the project plans.

C. Measurement and Payment

Payment shall be made at the contract unit price per each sign. The contract unit price for "Sign, W11-15 W/ Flashing LED, Solar, Fluorescent Yellow" includes the sign, LEDs, batteries, solar cell, mounting hardware, and installation.

<u>Pay Item</u>	<u>Pay Unit</u>
Sign, W11-15 W/ Flashing LED, Solar, Fluorescent Yellow	Each

APPENDIX I
PRE-APPROVED MATERIALS LIST

**CITY OF MARQUETTE
PRE-APPROVED MATERIALS LIST
SANITARY SEWER ITEMS**

ITEM	MANUFACTURE (Add new Manufacture)	Series or Part No. (Add new Series/Part No.)	Item Used (Check Appropriate Box)	Comments
PVC Pipe	Freedom Plastics	SDR 26	<input type="checkbox"/>	
8", 10", 12"	Diamond Plastics	SDR 26	<input type="checkbox"/>	
	Northern Pipe Products	SDR 26	<input type="checkbox"/>	
	JM Eagle	SDR 26	<input type="checkbox"/>	
4", 6"		SCH 40	<input type="checkbox"/>	
			<input type="checkbox"/>	Submit Shop Drawings
PVC Fittings	GPK Products		<input type="checkbox"/>	
4", 6", 8", 10" 12"	_____	_____	<input type="checkbox"/>	Submit Shop Drawings
Concrete Pipe	U.P. Pipe		<input type="checkbox"/>	
12", 15", 18", 24", 30", 36"	Concrete Industries, Inc.		<input type="checkbox"/>	
	_____	_____	<input type="checkbox"/>	Submit Shop Drawings
Monument Box	ej	2970	<input type="checkbox"/>	
	_____	_____	<input type="checkbox"/>	Submit Shop Drawings
Sanitary Manholes	U.P. Pipe		<input type="checkbox"/>	
4', 5', 6' 8' Dia.	Concrete Industries, Inc.		<input type="checkbox"/>	
	_____	_____	<input type="checkbox"/>	Submit Shop Drawings
Manhole Cover	ej	Cat. No. 1040, Type A	<input type="checkbox"/>	
MDOT "Q"			<input type="checkbox"/>	Submit Shop Drawings
Miscellaneous Fittings	Fernco Couplings		<input type="checkbox"/>	
	_____		<input type="checkbox"/>	Submit Shop Drawings

**CITY OF MARQUETTE
PRE-APPROVED MATERIALS LIST
SANITARY SEWER ITEMS**

ITEM	MANUFACTURE (Add new Manufacture)	Series or Part No. (Add new Series/Part No.)	Item Used (Check Appropriate Box)	Comments
Multi-Purpose Rubber	ej	INFRA-RISER	<input type="checkbox"/>	
Composite Adjustment Riser	Cretex	PRO-RING	<input type="checkbox"/>	
			<input type="checkbox"/>	
			<input type="checkbox"/>	Submit Shop Drawings
Self Leveling Assembly	ej	1040APT	<input type="checkbox"/>	
	_____	_____	<input type="checkbox"/>	Submit Shop Drawings
			<input type="checkbox"/>	
			<input type="checkbox"/>	Submit Shop Drawings
			<input type="checkbox"/>	
			<input type="checkbox"/>	Submit Shop Drawings
			<input type="checkbox"/>	
			<input type="checkbox"/>	Submit Shop Drawings
			<input type="checkbox"/>	
			<input type="checkbox"/>	Submit Shop Drawings
			<input type="checkbox"/>	
			<input type="checkbox"/>	Submit Shop Drawings
			<input type="checkbox"/>	
			<input type="checkbox"/>	Submit Shop Drawings

**CITY OF MARQUETTE
PRE-APPROVED MATERIALS LIST
WATER MAIN ITEMS**

ITEM	MANUFACTURE (Add new Manufacture)	Series or Part No. (Add new Series/Part No.)	Item Used (Check Appropriate Box)	Comments
Ductile Iron Pipe, CL 52	American Iron Pipe		<input type="checkbox"/>	
4", 6", 8", 10", 12", 14", 16"	Griffin Pipe		<input type="checkbox"/>	
18", 20", 24", 30", 36"	U.S. Pipe	Tyton Joint Pipe	<input type="checkbox"/>	
	McWane Ductile		<input type="checkbox"/>	
	_____	_____	<input type="checkbox"/>	Submit Shop Drawings
Bends	Tyler Pipe		<input type="checkbox"/>	
4", 6", 8", 10", 12", 14", 16"	Sigma Pipe		<input type="checkbox"/>	
	Clow Pipe		<input type="checkbox"/>	
	Griffin Pipe		<input type="checkbox"/>	
	_____	_____	<input type="checkbox"/>	Submit Shop Drawings
Tees	Tyler Pipe		<input type="checkbox"/>	
4", 6", 8", 10", 12", 14", 16"	Sigma Pipe		<input type="checkbox"/>	
	Clow Pipe		<input type="checkbox"/>	
	Griffin Pipe		<input type="checkbox"/>	
	_____	_____	<input type="checkbox"/>	Submit Shop Drawings
Solid Sleeves	Tyler Pipe		<input type="checkbox"/>	
4", 6", 8", 10", 12", 14", 16"	Sigma Pipe		<input type="checkbox"/>	
	Clow Pipe		<input type="checkbox"/>	
	Griffin Pipe		<input type="checkbox"/>	
	_____	_____	<input type="checkbox"/>	Submit Shop Drawings
Crosses	Tyler Pipe		<input type="checkbox"/>	
4", 6", 8", 10", 12", 14", 16"	Sigma Pipe		<input type="checkbox"/>	
	Clow Pipe		<input type="checkbox"/>	
	Griffin Pipe		<input type="checkbox"/>	
	_____	_____	<input type="checkbox"/>	Submit Shop Drawings
Cutting-in-Sleeve	Tyler Pipe		<input type="checkbox"/>	
4", 6", 8", 10", 12", 14", 16"	Sigma Pipe		<input type="checkbox"/>	
	Clow Pipe		<input type="checkbox"/>	
	Griffin Pipe		<input type="checkbox"/>	
	_____	_____	<input type="checkbox"/>	Submit Shop Drawings

**CITY OF MARQUETTE
PRE-APPROVED MATERIALS LIST
WATER MAIN ITEMS**

ITEM	MANUFACTURE (Add new Manufacture)	Series or Part No. (Add new Series/Part No.)	Item Used (Check Appropriate Box)	Comments
Hydrants	ej	Water Master Model 5-BR	<input type="checkbox"/>	
UL listed	American Flow Control	Waterous Pacer	<input type="checkbox"/>	
	_____	_____	<input type="checkbox"/>	Submit Shop Drawings
Valve Boxes	Tyler Pipe	6860	<input type="checkbox"/>	
2", 4", 6", 8", 10", 12", 16"	Sigma Pipe		<input type="checkbox"/>	
	ej	8560	<input type="checkbox"/>	
	_____	_____	<input type="checkbox"/>	Submit Shop Drawings
Joint Restraint	Tyler Pipe		<input type="checkbox"/>	
4", 6", 8", 12", 14", 16"	Sigma Pipe		<input type="checkbox"/>	
	EBAA Iron	MEGALUG	<input type="checkbox"/>	
	_____	_____	<input type="checkbox"/>	Submit Shop Drawings
Anchor Coupling	Tyler Pipe		<input type="checkbox"/>	
4", 6", 8", 12", 14", 16"	Sigma Pipe		<input type="checkbox"/>	
	Clow Pipe		<input type="checkbox"/>	
	Griffin Pipe		<input type="checkbox"/>	
	_____	_____	<input type="checkbox"/>	Submit Shop Drawings
Gate Valve Adapter	Adaptor Inc.		<input type="checkbox"/>	
4", 6", 8", 12"	_____	_____	<input type="checkbox"/>	Submit Shop Drawings
Self Leveling Valve Box Riser	ej	8555	<input type="checkbox"/>	
	_____	_____	<input type="checkbox"/>	Submit Shop Drawings

**CITY OF MARQUETTE
PRE-APPROVED MATERIALS LIST
WATER SERVICES**

ITEM	MANUFACTURE (Add new Manufacture)	Series or Part No. (Add new Series/Part No.)	Item Used (Check Appropriate Box)	Comments
Corporation Stops	Mueller	P-15008N	<input type="checkbox"/>	
3/4", 1", 1 1/4", 1 1/2", 2"	Ford	F1000-NL	<input type="checkbox"/>	
	_____	_____	<input type="checkbox"/>	Submit Shop Drawings
Service Saddles	Mueller	BR2B	<input type="checkbox"/>	
1 1/4", 1 1/2", 2"	Mueller	BR2S	<input type="checkbox"/>	
x 4", 6", 8", 10", 12", 16"	Ford	101B	<input type="checkbox"/>	
	Ford	202B	<input type="checkbox"/>	
	_____	_____	<input type="checkbox"/>	Submit Shop Drawings
Curb Stops	Mueller	P-15209N	<input type="checkbox"/>	
3/4", 1", 1 1/4", 1 1/2" 2"	Ford	B44-444M-NL	<input type="checkbox"/>	
	_____	_____	<input type="checkbox"/>	Submit Shop Drawings
Curb Stop Box	Tyler	6500 Series, 101-F	<input type="checkbox"/>	
3/4", 1", 1 1/4", 1 1/2"	Sigma	VB701F	<input type="checkbox"/>	
	_____	_____	<input type="checkbox"/>	Submit Shop Drawings
Service Piping (Type K)	Cambridge-Lee		<input type="checkbox"/>	
3/4", 1", 1 1/4", 1 1/2", 2"	Cerro		<input type="checkbox"/>	
	Mueller		<input type="checkbox"/>	
	_____		<input type="checkbox"/>	Submit Shop Drawings
	_____	_____	<input type="checkbox"/>	Submit Shop Drawings
	_____	_____	<input type="checkbox"/>	Submit Shop Drawings
	_____	_____	<input type="checkbox"/>	Submit Shop Drawings
	_____	_____	<input type="checkbox"/>	Submit Shop Drawings
	_____	_____	<input type="checkbox"/>	Submit Shop Drawings

**CITY OF MARQUETTE
PRE-APPROVED MATERIALS LIST
STORM SEWER ITEMS**

ITEM	MANUFACTURE (Add new Manufacture)	Series or Part No. (Add new Series/Part No.)	Item Used (Check Appropriate Box)	Comments
Catch Basin Top	Argonics Inc.	Part No. mm-cm-2201	<input type="checkbox"/>	
MDOT "L", "K" Cover	ej	Cat. No. K-7045 L-7055	<input type="checkbox"/>	
MDOT "B" Cover	ej	Cat. No. 1040, Type B	<input type="checkbox"/>	
MDOT "E" Cover	ej	Cat. No. 1040, Type 02	<input type="checkbox"/>	
MDOT "C" Cover	ej	Cat. No. 7065	<input type="checkbox"/>	
Reinforced Concrete Pipe	U.P. Pipe		<input type="checkbox"/>	
12", 15", 18", 24", etc.	Concrete Industries, Inc.		<input type="checkbox"/>	
	_____	_____	<input type="checkbox"/>	Submit Shop Drawings
Drainage Structures	U.P. Pipe		<input type="checkbox"/>	
2', 4', 5', 6', 8' Dia.	Concrete Industries, Inc.		<input type="checkbox"/>	Do not supply 2' Dia.
	_____	_____	<input type="checkbox"/>	Submit Shop Drawings
Precast Sump	U.P. Pipe		<input type="checkbox"/>	
2', 4' Dia.	Concrete Industries, Inc.		<input type="checkbox"/>	Do not supply 2' Dia.
	_____	_____	<input type="checkbox"/>	Submit Shop Drawings
Reinforced Pre-cast Conc.	U.P. Pipe		<input type="checkbox"/>	
End Sect. 12", 15", 18", 24" etc.	Concrete Industries, Inc.		<input type="checkbox"/>	
	_____	_____	<input type="checkbox"/>	Submit Shop Drawings
Silt Fence	Rhino Seed and Landscape		<input type="checkbox"/>	
	Price and Company		<input type="checkbox"/>	
	_____	_____	<input type="checkbox"/>	Submit Shop Drawings

**CITY OF MARQUETTE
PRE-APPROVED MATERIALS LIST
STORM SEWER ITEMS**

ITEM	MANUFACTURE (Add new Manufacture)	Series or Part No. (Add new Series/Part No.)	Item Used (Check Appropriate Box)	Comments
Catch Basin Sediment Bags	Emerald Seed & Supply		<input type="checkbox"/>	
	Volm Companies, Inc.		<input type="checkbox"/>	
			<input type="checkbox"/>	
			<input type="checkbox"/>	
			<input type="checkbox"/>	
			<input type="checkbox"/>	
Multi-Purpose Rubber	ej	INFRA-RISER	<input type="checkbox"/>	
Composite Adjustment Riser	Cretex	PRO-RING	<input type="checkbox"/>	
			<input type="checkbox"/>	
			<input type="checkbox"/>	Submit Shop Drawings
Self Leveling Assembly	ej	1040APT	<input type="checkbox"/>	
	_____	_____	<input type="checkbox"/>	Submit Shop Drawings
			<input type="checkbox"/>	
			<input type="checkbox"/>	Submit Shop Drawings
			<input type="checkbox"/>	
			<input type="checkbox"/>	Submit Shop Drawings
			<input type="checkbox"/>	
			<input type="checkbox"/>	
			<input type="checkbox"/>	Submit Shop Drawings

**CITY OF MARQUETTE
PRE-APPROVED MATERIALS LIST
CONCRETE ITEMS**

ITEM	MANUFACTURE (Add new Manufacture)	Series or Part No. (Add new Series/Part No.)	Item Used (Check Appropriate Box)	Comments
Bar Reinforcement	Nucor Steel , Inc.	Marion, OH Plant	<input type="checkbox"/>	
	American Steel & Wire	Joliet. IL Plant	<input type="checkbox"/>	
	Gerdau Ameristeel Corp.	Sayreville, NJ Plant	<input type="checkbox"/>	
	_____	_____	<input type="checkbox"/>	Submit Test Data
Epoxy Coating	ABC Coating Co.	Wyoming, MI Plant	<input type="checkbox"/>	
	Co-Steel Sayreville	Syreville, NJ Plant	<input type="checkbox"/>	
	Simcote	Marion, OH Plant	<input type="checkbox"/>	
	_____	_____	<input type="checkbox"/>	Submit Test Data
Fiber Joint Filler, Bituminized	W.R. Meadows, Inc.		<input type="checkbox"/>	
	_____	_____	<input type="checkbox"/>	Submit Test Data
Deactable Warning Surfaces	ADA Solutions	North Billerica, MA	<input type="checkbox"/>	
	Access Products, Inc.	Buffalo, NY	<input type="checkbox"/>	
	AlertTiles	Wilmington, NC	<input type="checkbox"/>	
	Engineered Plastics, Inc.	Williamsville, NY	<input type="checkbox"/>	
	_____	_____	<input type="checkbox"/>	Submit Test Data
Cure and Seal	Dayton Superior	Cure & Seal LV 25% J2OUV	<input type="checkbox"/>	
	The Euclid Chemical Co.	Luster Seal 300	<input type="checkbox"/>	
	W.R. Meadows	VOCOMP -30	<input type="checkbox"/>	
			<input type="checkbox"/>	Submit Test Data

**CITY OF MARQUETTE
PRE-APPROVED MATERIALS LIST
RESTORATION/LANDSCAPE ITEMS**

ITEM	MANUFACTURE (Add new Manufacture)	Series or Part No. (Add new Series/Part No.)	Item Used (Check Appropriate Box)	Comments
Sod, Class A	Lena Sod Farm		<input type="checkbox"/>	
			<input type="checkbox"/>	
			<input type="checkbox"/>	Submit Shop Drawings
Seed and Seeding Mixtures	Allied Seed, L.L.C.		<input type="checkbox"/>	
	C.S.I. / Geoturf Inc.		<input type="checkbox"/>	
	Hanes Geo Components		<input type="checkbox"/>	
	Rhino Seed Landscape & Supply		<input type="checkbox"/>	
			<input type="checkbox"/>	Submit Shop Drawings
Chemical Fertilizer			<input type="checkbox"/>	
			<input type="checkbox"/>	Submit Shop Drawings
Mulch Blankets	American Excelsior Co.		<input type="checkbox"/>	
	S.I. Geosolutions / Land		<input type="checkbox"/>	
	North American Green		<input type="checkbox"/>	
	Rhino Seed & Landscape Supply		<input type="checkbox"/>	
			<input type="checkbox"/>	Submit Shop Drawings
			<input type="checkbox"/>	Submit Shop Drawings
			<input type="checkbox"/>	
			<input type="checkbox"/>	Submit Shop Drawings

APPENDIX II

PREVAILING WAGES

- 1. CITY OF MARQUETTE PREVAILING WAGE RESOLUTION**
- 2. DAVIS BACON WAGE RATES – GENERAL DECISION MI20230001**

The City Commission adopted the following policy:

WHEREAS, it is the desire of the Marquette City Commissioners that "prevailing wages" as provided by federal standards (Davis Bacon), be paid to mechanics and laborers working on major construction contracts for the City;

WHEREAS, any contract, as to which the cost of a contract for construction is anticipated to be more than \$65,000 is deemed a major construction contract:

NOW, THEREFORE, BE IT RESOLVED, that the following be hereby adopted and published as the Marquette City Prevailing Wage Resolution for the City of Marquette:

CITY OF MARQUETTE PREVAILING WAGE RESOLUTION

Construction Contracts Rules & Regulations

Section 1. These rules and regulations, unless otherwise specifically provided by the, City Commissioners with regard to a designated project, shall not apply to projects constructed by City employees or to a construction contract, the costs of which are not in excess of \$65,000.

Section 2. (a) The advertised specifications for every contract in excess of \$65,000 to which the City of Marquette is a party, for construction, alteration, and/or repair, including painting and decorating of public buildings or public works in or for the City of Marquette and, which requires or involves the employment of mechanics and/or laborers, shall contain provision stating the minimum wages to be paid the various classes of laborers and mechanics which shall be based upon the wages determined by the Secretary of Labor to be prevailing for the corresponding classes of laborers and mechanics employed on projects of a character similar to the contract work in or in the vicinity of the City of Marquette.

(b) Every contract based upon specifications referred to in (a) above shall contain a stipulation that:

1. Contractor or his subcontractor shall pay all mechanics and laborers employed directly upon the site of the work, unconditionally and not less often than once every two weeks, and without subsequent deduction or rebate on any account, the full mount accrued at the time of payment, computed at wage rates not less than those stated in the advertised specifications, regardless of any contractual relationship which may be alleged to exist between the contractor or subcontractor and such laborers and mechanics;

2. The scale of wages to be paid shall be posted by the contractor in a prominent and easily accessible place at the site of the work; and

3. There may be withheld from the contractor so much of accrued payments as may be I considered necessary by the City Administrator to pay to laborers and mechanics employed by the contractor or any subcontractor on the work for the difference between the rates of wages required by the contract and the rates of wages received by such laborers and mechanics except those amounts properly deducted or refunded pursuant to the terms of P .A. 166 of 1965 (MCL 408.551 to 408.558) and interpretations thereof.

(c) The overtime pay to which a laborer or mechanic working on the contract is entitled shall be that overtime pay to which he is entitled by any agreement he may have made with the contractor or subcontractor or by any applicable provision of law, but in no event shall such amount be less than the prevailing wage in City of Marquette for such overtime.

Section 3. Provisions of Section 2 shall be applicable for contracts entered into on or after February 28, 2011.

"General Decision Number: MI20230001 01/06/2023

Superseded General Decision Number: MI20220001

State: Michigan

Construction Types: Highway (Highway, Airport & Bridge xxxxx and Sewer/Incid. to Hwy.)

Counties: Michigan Statewide.

Note: Contracts subject to the Davis-Bacon Act are generally required to pay at least the applicable minimum wage rate required under Executive Order 14026 or Executive Order 13658. Please note that these Executive Orders apply to covered contracts entered into by the federal government that are subject to the Davis-Bacon Act itself, but do not apply to contracts subject only to the Davis-Bacon Related Acts, including those set forth at 29 CFR 5.1(a)(2)-(60).

If the contract is entered into on or after January 30, 2022, or the contract is renewed or extended (e.g., an option is exercised) on or after January 30, 2022:	<ul style="list-style-type: none">. Executive Order 14026 generally applies to the contract.. The contractor must pay all covered workers at least \$16.20 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract in 2023.
If the contract was awarded on or between January 1, 2015 and January 29, 2022, and the contract is not renewed or extended on or after January 30, 2022:	<ul style="list-style-type: none">. Executive Order 13658 generally applies to the contract.. The contractor must pay all covered workers at least \$12.15 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on that contract in 2023.

The applicable Executive Order minimum wage rate will be adjusted annually. If this contract is covered by one of the

working alone.

Operator A: Shall be proficient in operating all power equipment including: Backhoe, Excavator, Directional Bore and Boom/Digger truck.

Operator B: Shall be proficient in operating any 2 of the above mentioned pieces of equipment listed under Operator A.

ENGI0324-003 06/01/2022

ALCONA, ALPENA, ARENAC, BAY, CHEBOYGAN, CLARE, CLINTON, CRAWFORD, GENESEE, GLADWIN, GRATIOT, HURON, INGHAM, IOSCO, ISABELLA, JACKSON, LAPEER, LENAWEE, LIVINGSTON, MACOMB, MIDLAND, MONROE, MONTMORENCY, OAKLAND, OGEMAW, OSCODA, OTSEGO, PRESQUE ISLE, ROSCOMMON, SAGINAW, ST. CLAIR, SANILAC, SHIAWASSEE, TUSCOLA, WASHTENAW AND WAYNE COUNTIES:

	Rates	Fringes
OPERATOR: Power Equipment (Steel Erection)		
GROUP 1.....	\$ 51.02	24.85
GROUP 2.....	\$ 52.02	24.85
GROUP 3.....	\$ 49.52	24.85
GROUP 4.....	\$ 50.52	24.85
GROUP 5.....	\$ 48.02	24.85
GROUP 6.....	\$ 49.02	24.85
GROUP 7.....	\$ 47.75	24.85
GROUP 8.....	\$ 48.75	24.85
GROUP 9.....	\$ 47.30	24.85
GROUP 10.....	\$ 48.30	24.85
GROUP 11.....	\$ 46.57	24.85
GROUP 12.....	\$ 47.57	24.85
GROUP 13.....	\$ 46.21	24.85
GROUP 14.....	\$ 47.21	24.85
GROUP 15.....	\$ 45.57	24.85
GROUP 16.....	\$ 42.37	24.85
GROUP 17.....	\$ 27.89	12.00
GROUP 18.....	\$ 31.38	24.85

FOOTNOTE:

Paid Holidays: New Year's Day, Memorial Day, Fourth of July, Labor Day, Thanksgiving Day and Christmas Day.

POWER EQUIPMENT OPERATOR CLASSIFICATIONS

GROUP 1: Engineer when operating combination of boom and jib

400' or longer

GROUP 2: Engineer when operating combination of boom and jib 400' or longer on a crane that requires an oiler

GROUP 3: Engineer when operating combination of boom and jib 300' or longer

GROUP 4: Engineer when operating combination of boom and jib 300' or longer on a crane that requires an oiler

GROUP 5: Engineer when operating combination of boom and jib 220' or longer

GROUP 6: Engineer when operating combination of boom and jib 220' or longer on a crane that requires an oiler

GROUP 7: Engineer when operating combination of boom and jib 140' or longer

GROUP 8: Engineer when operating combination of boom and jib 140' or longer on a crane that requires an oiler

GROUP 9: Tower crane & derrick operator (where operator's work station is 50 ft. or more above first sub-level)

GROUP 10: Tower crane & derrick operator (where operator's work station is 50 ft. or more above first sub-level) on a crane that requires an oiler

GROUP 11: Engineer when operating combination of boom and jib 120' or longer

GROUP 12: Engineer when operating combination of boom and jib 120' or longer on a crane that requires an oiler

GROUP 13: Crane operator; job mechanic and 3 drum hoist and excavator

GROUP 14: Crane operator on a crane that requires an oiler

GROUP 15: Hoisting operator; 2 drum hoist and rubber tired backhoe

GROUP 16: Forklift and 1 drum hoist

GROUP 17: Compressor or welder operator

GROUP 18: Oiler

ENGI0324-004 06/01/2022

AREA 1: ALLEGAN, BARRY, BERRIEN, BRANCH, CALHOUN, CASS, EATON, HILLSDALE, IONIA, KALAMAZOO, KENT, LAKE, MANISTEE, MASON, MECOSTA, MONTCALM, MUSKEGON, NEWAYGO, OCEANA, OSCEOLA, OTTAWA, ST. JOSEPH, VAN BUREN

AREA 2: ANTRIM, BENZIE, CHARLEVOIX, EMMET, GRAND TRAVERSE, KALKASKA, LEELANAU, MISSAUKEE AND WEXFORD COUNTIES:

	Rates	Fringes
OPERATOR: Power Equipment (Steel Erection)		
AREA 1		
GROUP 1.....	\$ 51.02	24.85
GROUP 2.....	\$ 47.75	24.85
GROUP 3.....	\$ 46.21	24.85
GROUP 4.....	\$ 42.37	24.85
GROUP 5.....	\$ 27.89	12.00
GROUP 6.....	\$ 31.38	24.85
AREA 2		
GROUP 1.....	\$ 51.02	24.85
GROUP 2.....	\$ 47.75	24.85
GROUP 3.....	\$ 46.21	24.85
GROUP 4.....	\$ 42.37	24.85
GROUP 5.....	\$ 27.89	12.00
GROUP 6.....	\$ 31.38	24.85

FOOTNOTES:

Crane operator with main boom and jib 300' or longer: \$1.50 additional to the group 1 rate. Crane operator with main boom and jib 400' or longer: \$3.00 additional to the group 1 rate.

PAID HOLIDAYS: New Year's Day, Memorial Day, Fourth of July, Labor Day, Thanksgiving Day and Christmas Day.

POWER EQUIPMENT OPERATOR CLASSIFICATIONS:

GROUP 1: Crane Operator with main boom & jib 400', 300', or 220' or longer.

GROUP 2: Crane Operator with main boom & jib 140' or longer, Tower Crane; Gantry Crane; Whirley Derrick.

GROUP 3: Regular Equipment Operator, Crane, Dozer, Loader, Hoist, Straddle Wagon, Mechanic, Grader and Hydro Excavator.

GROUP 4: Air Tugger (single drum), Material Hoist Pump 6" or over, Elevators, Brokk Concrete Breaker.

GROUP 5: Air Compressor, Welder, Generators, Conveyors

GROUP 6: Oiler and fire tender

 ENGI0324-005 09/01/2022

AREA 1: GENESEE, LAPEER, LIVINGSTON, MACOMB, MONROE, OAKLAND, ST. CLAIR, WASHTENAW AND WAYNE COUNTIES

AREA 2: ALCONA, ALLEGAN, ALGER, ALPENA, ANTRIM, ARENAC, BARAGA, BARRY, BAY, BENZIE, BERRIEN, BRANCH, CALHOUN, CASS, CHARLEVOIX, CHEBOYGAN, CHIPPEWA, CLARE, CLINTON, CRAWFORD, DELTA, DICKINSON, EATON, EMMET, GLADWIN, GOGEBIC, GRAND TRAVERSE, GRATIOT, HILLSDALE, HOUGHTON, HURON, INGHAM, IONIA, IOSCO, IRON, ISABELLA, JACKSON, KALAMAZOO, KALKASKA, KENT, KWEENAW, LAKE, LEELANAU, LENAWEE, LUCE, MACKINAC, MANISTEE, MARQUETTE, MASON, MECOSTA, MENOMINEE, MIDLAND, MISSAUKEE, MONTCALM, MONTMORENCY, MUSKEGON, NEWAYGO, OCEANA, OGEMAW, ONTONAGON, OSCEOLA, OSCODA, OTSEGO, OTTAWA, PRESQUE ISLE, ROSCOMMON, SAGINAW, SANILAC, SCHOOLCRAFT, SHIAWASSEE, ST. JOSEPH, TUSCOLA, VAN BUREN AND WEXFORD COUNTIES

Rates Fringes

OPERATOR: Power Equipment
 (Underground construction
 (including sewer))

AREA 1:

GROUP 1.....	\$ 39.38	24.85
GROUP 2.....	\$ 34.65	24.85
GROUP 3.....	\$ 33.92	24.85
GROUP 4.....	\$ 33.35	24.85
GROUP 5.....	\$ 24.90	12.05

AREA 2:

GROUP 1.....	\$ 37.67	24.85
GROUP 2.....	\$ 32.78	24.85
GROUP 3.....	\$ 32.28	24.85
GROUP 4.....	\$ 32.00	24.85
GROUP 5.....	\$ 24.90	12.05

POWER EQUIPMENT OPERATOR CLASSIFICATIONS

GROUP 1: Backfiller tamper; Backhoe; Batch plant operator (concrete); Clamshell; Concrete paver (2 drums or larger);

Conveyor loader (Euclid type); Crane (crawler, truck type or pile driving); Dozer; Dragline; Elevating grader; Endloader; Gradall (and similar type machine); Grader; Mechanic; Power shovel; Roller (asphalt); Scraper (self-propelled or tractor drawn); Side boom tractor (type D-4 or equivalent and larger); Slip form paver; Slope paver; Trencher (over 8 ft. digging capacity); Well drilling rig; Concrete pump with boom operator; Hydro Excavator

GROUP 2: Boom truck (power swing type boom); Crusher; Hoist; Pump (1 or more - 6-in. discharge or larger - gas or diesel- powered or powered by generator of 300 amperes or more - inclusive of generator); Side boom tractor (smaller than type D-4 or equivalent); Tractor (pneu-tired, other than backhoe or front end loader); Trencher (8-ft. digging capacity and smaller); Vac Truck and End dump operator;

GROUP 3: Air compressors (600 cfm or larger); Air compressors (2 or more-less than 600 cfm); Boom truck (non-swinging, non- powered type boom); Concrete breaker (self-propelled or truck mounted - includes compressor); Concrete paver (1 drum-1/2 yd. or larger); Elevator (other than passenger); Maintenance person; Pump (2 or more-4-in. up to 6-in. discharge-gas or diesel powered - excluding submersible pumps); Pumpcrete machine (and similar equipment); Wagon drill (multiple); Welding machine or generator (2 or more-300 amp. or larger - gas or diesel powered)

GROUP 4: Boiler; Concrete saw (40 hp or over); Curing machine (self-propelled); Farm tractor (with attachment); Finishing machine (concrete); Hydraulic pipe pushing machine; Mulching equipment; Pumps (2 or more up to 4-in. discharge, if used 3 hours or more a day, gas or diesel powered - excluding submersible pumps); Roller (other than asphalt); Stump remover; Trencher (service); Vibrating compaction equipment, self-propelled (6 ft. wide or over); Sweeper (Wayne type); Water wagon and Extend-a boom forklift

Group 5: Fire Person, Oiler

ENGI0324-006 06/01/2022

GENESEE, MACOMB, MONROE, OAKLAND, WASHTENAW, WAYNE, ALCONA, ALGER, ALLEGAN, ALPENA, ANTRIM, ARENAC, BARAGA, BARRY, BAY, BENZIE, BERRIEN, BRANCH, CALHOUN, CASS, CHARLEVOIX, CHEBOYGAN, CHIPPEWA, CLARE, CLINTON, CRAWFORD, DELTA, DICKINSON, EATON, EMMET, GLADWIN, GOGEBIC, GRAND TRAVERSE, GRATIOT, HILLSDALE, HOUGHTON, HURON, INGHAM, IONIA, IOSCO, IRON, ISABELLA, JACKSON,

KALAMAZOO, KALKASKA, KENT, KEWEENAW, LAKE, LAPEER, LEELANAU, LENAWEЕ, LIVINGSTON, LUCE, MACKINAC, MANISTEE, MARQUETTE, MASON, MECOSTA, MENOMINEE, MIDLAND, MISSAUKEE, MONTCALM, MONTMORENCY, MUSKEGON, NEWAYGO, OCEANA, OGEMAW, ONTONAGON, OSCEOLA, OSCODA, OTSEGO, OTTAWA, PRESQUE ISLE, ROSCOMMON, SAGINAW, ST. CLARE, ST. JOSEPH, SANILAC, SCHOOLCRAFT, SHIAWASSEE, TUSCOLA, VAN BUREN AND WEXFORD COUNTIES

	Rates	Fringes
Power equipment operators: (AIRPORT, BRIDGE & HIGHWAY CONSTRUCTION)		
GROUP 1.....	\$ 38.86	24.85
GROUP 2.....	\$ 32.13	24.85
GROUP 3.....	\$ 31.57	24.85
GROUP 4.....	\$ 31.40	24.85

POWER EQUIPMENT OPERATOR CLASSIFICATIONS

GROUP 1: Asphalt plant operator; Crane operator (does not include work on bridge construction projects when the crane operator is erecting structural components); Dragline operator; Shovel operator; Locomotive operator; Paver operator (5 bags or more); Elevating grader operator; Pile driving operator; Roller operator (asphalt); Blade grader operator; Trenching machine operator (ladder or wheel type); Auto-grader; Slip form paver; Self-propelled or tractor-drawn scraper; Conveyor loader operator (Euclid type); Endloader operator (1 yd. capacity and over); Bulldozer; Hoisting engineer; Tractor operator; Finishing machine operator (asphalt); Mechanic; Pump operator (6-in. discharge or over, gas, diesel powered or generator of 300 amp. or larger); Shouldering or gravel distributing machine operator (self-propelled); Backhoe (with over 3/8 yd. bucket); Side boom tractor (type D-4 or equivalent or larger); Tube finisher (slip form paving); Gradall (and similar type machine); Asphalt paver (self-propelled); Asphalt planer (self-propelled); Batch plant (concrete-central mix); Slurry machine (asphalt); Concrete pump (3 in. and over); Roto-mill; Swinging boom truck (over 12 ton capacity); Hydro demolisher (water blaster); Farm-type tractor with attached pan; Vacuum truck operator; Batch Plant (concrete dry batch); Concrete Saw Operator (40h.p. or over); Tractor Operator (farm type); Finishing Machine Operator (concrete); Grader Operator (self-propelled fine grade or form (concrete)).

GROUP 2: Screening plant operator; Washing plant operator;

Crusher operator; Backhoe (with 3/8 yd. bucket or less); Side boom tractor (smaller than D-4 type or equivalent); Sweeper (Wayne type and similar equipment); Greese Truck; Air Compressor Operator (600 cu.ft. per min or more); Air Compressor Operator (two or more, less than 600 cfm);

GROUP 3: Boiler fire tender; Tractor operator (farm type with attachment); Concrete Breaker; Wagon Drill Operator;

GROUP 4: Oiler; Fire tender; Trencher (service); Flexplane operator; Cleftplane operator; Boom or winch hoist truck operator; Endloader operator *under 1 yd. capacity); Roller Operator (other than asphalt); Curing equipment operator (self-propelled); Power bin operator; Plant drier (6 ft. wide or over); Guard post driver operator (power driven); All mulching equipment; Stump remover; Concrete pump (under 3-in.); Mesh installer (self-propelled); End dump; Skid Steer.

 ENGI0324-007 05/01/2022

ALGER, BARAGA, CHIPPEWA, DELTA, DICKINSON, GOGEBIC, HOUGHTON, IRON, KEWEENAW, LUCE, MACKINAC MARQUETTE, MENOMINEE, ONTONAGON AND SCHOOLCRAFT COUNTIES:

	Rates	Fringes
OPERATOR: Power Equipment (Steel Erection)		
Compressor, welder and forklift.....	\$ 37.40	24.60
Crane operator, main boom & jib 120' or longer.....	\$ 43.87	24.60
Crane operator, main boom & jib 140' or longer.....	\$ 44.17	24.60
Crane operator, main boom & jib 220' or longer.....	\$ 44.17	24.60
Mechanic with truck and tools.....	\$ 43.00	24.60
Oiler and fireman.....	\$ 35.86	24.60
Regular operator.....	\$ 41.22	24.60

 ENGI0324-008 10/01/2020

ALCONA, ALGER, ALLEGAN, ALPENA, ANTRIM, ARENAC, BARAGA, BARRY, BAY, BENZIE, BERRIEN, BRANCH, CALHOUN, CASS, CHARLEVOIX, CHEBOYGAN, CHIPPEWA, CLARE, CLINTON, CRAWFORD, DELTA, DICKINSON, EATON, EMMET, GENESEE, GLADWIN, GOGEBIC, GRAND

TRAVERSE, GRATIOT, HILLSDALE, HOUGHTON, HURON, INGHAM, IONIA, IOSCO, IRON, ISABELLA, JACKSON, KALAMAZOO, KALKASKA, KENT, KEWEENAW, LAKE, LAPEER, LEELANAU, LENAWEE, LIVINGSTON, LUCE, MACKINAC, MACOMB, MANISTEE, MARQUETTE, MASON, MECOSTA, MENOMINEE, MIDLAND, MISSAUKEE, MONTCALM, MONTMORENCY, MONROE, MUSKEGON, NEWAYGO, OAKLAND, OCEANA, OGEMAW, ONTONAGON, OSCEOLA, OSCODA, OTSEGO, OTTAWA, PRESQUE ISLE, ROSCOMMON, SAGINAW, ST. CLARE, ST. JOSEPH, SANILAC, SCHOOLCRAFT, SHIAWASSEE, TUSCOLA, VAN BUREN, WASHTENAW, WAYNE AND WEXFORD COUNTIES

	Rates	Fringes
OPERATOR: Power Equipment (Sewer Relining)		
GROUP 1.....	\$ 35.37	14.31
GROUP 2.....	\$ 33.33	14.31

SEWER RELINING CLASSIFICATIONS

GROUP 1: Operation of audio-visual closed circuit TV system, including remote in-ground cutter and other equipment used in connection with the CCTV system

GROUP 2: Operation of hot water heaters and circulation systems, water jetters and vacuum and mechanical debris removal systems

ENGI0325-012 05/01/2022

	Rates	Fringes
Power equipment operators - gas distribution and duct installation work:		
GROUP 1.....	\$ 34.83	24.85
GROUP 2.....	\$ 32.55	24.85

SCOPE OF WORK: The construction, installation, treating and reconditioning of pipelines transporting gas vapors within cities, towns, subdivisions, suburban areas, or within private property boundaries, up to and including private meter settings of private industrial, governmental or other premises, more commonly referred to as "distribution work," starting from the first metering station, connection, similar or related facility, of the main or cross country pipeline and including duct installation.

Group 1: Backhoe, crane, grader, mechanic, dozer (D-6

equivalent or larger), side boom (D-4 equivalent or larger), trencher(except service), endloader (2 yd. capacity or greater).

GROUP 2: Dozer (less than D-6 equivalent), endloader (under 2 yd. capacity), side boom (under D-4 capacity), backfiller, pumps (1 or 2 of 6-inch discharge or greater), boom truck (with powered boom), tractor (wheel type other than backhoe or front endloader). Tamper (self-propelled), boom truck (with non-powered boom), concrete saw (20 hp or larger), pumps (2 to 4 under 6-inch discharge), compressor (2 or more or when one is used continuously into the second day) and trencher(service). Oiler, hydraulic pipe pushing machine, grease person and hydrostatic testing operator.

 IRON0008-007 06/01/2022

ALGER, BARAGA, CHIPPEWA, DELTA, DICKINSON, GOGEBIC, HOUGHTON, IRON, KEWEENAW, LUCE, MACKINAC MARQUETTE, MENOMINEE, ONTONAGON AND SCHOOLCRAFT COUNTIES:

	Rates	Fringes
Ironworker - pre-engineered metal building erector.....	\$ 23.70	6.95
IRONWORKER		
General contracts		
\$10,000,000 or greater.....	\$ 38.14	28.70
General contracts less than \$10,000,000.....	\$ 38.14	28.70

Paid Holidays: New Year's Day, Memorial Day, July 4th, Labor Day, Thanksgiving Day & Christmas Day.

 IRON0025-002 06/01/2021

ALCONA, ALPENA, ARENAC, BAY, CHEBOYGAN, CLARE, CLINTON, CRAWFORD, GENESEE, GLADWIN, GRATIOT, HURON, INGHAM, IOSCO, ISABELLA, JACKSON, LAPEER, LIVINGSTON, MACOMB, MIDLAND, MONTMORENCY, OAKLAND, OGEMAW, OSCODA, OTSEGO, PRESQUE ISLE, ROSCOMMON, SAGINAW, SANILAC, SHIAWASSEE, ST. CLAIR, TUSCOLA, WASHTENAW AND WAYNE COUNTIES:

	Rates	Fringes
Ironworker - pre-engineered		

metal building erector		
Alcona, Alpena, Arenac, Cheboygan, Clare, Clinton, Crawford, Gladwin, Gratiot, Huron, Ingham, Iosco, Isabella, Jackson, Lapeer, Livingston (west of Burkhardt Road), Montmorency, Ogemaw, Oscoda, Otsego, Presque Isle, Roscommon, Sanilac, Shiawassee, Tuscola & Washtenaw (west of U.S. 23).	\$ 24.26	22.11
Bay, Genesee, Lapeer, Livingston (east of Burkhardt Road), Macomb, Midland, Oakland, Saginaw, St. Clair, The University of Michigan, Washtenaw (east of U.S. 23) & Wayne...	\$ 25.48	23.11
IRONWORKER		
Ornamental and Structural...	\$ 36.77	29.03
Reinforcing.....	\$ 32.99	30.76

IRON0055-005 07/01/2022

LENAWEE AND MONROE COUNTIES:

	Rates	Fringes
IRONWORKER		
Pre-engineered metal buildings.....	\$ 23.59	19.35
All other work.....	\$ 33.00	27.20

IRON0292-003 06/01/2020

BERRIEN AND CASS COUNTIES:

	Rates	Fringes
IRONWORKER (Including pre-engineered metal building erector).....	\$ 31.75	22.84

IRON0340-001 06/19/2022

ALLEGAN, ANTRIM, BARRY, BENZIE, BRANCH, CALHOUN, CHARLEVOIX,
EATON, EMMET, GRAND TRAVERSE, HILLSDALE, IONIA, KALAMAZOO,
KALKASKA, KENT, LAKE, LEELANAU, MANISTEE, MASON, MECOSTA,

MISSAUKEE, MONTCALM, MUSKEGON, NEWAYGO, OCEANA, OSCEOLA,
 OTTAWA, ST. JOSEPH, VAN BUREN AND WEXFORD COUNTIES:

	Rates	Fringes
IRONWORKER (Including pre-engineered metal building erector).....	\$ 24.59	25.43

 LAB00005-006 10/01/2022

	Rates	Fringes
Laborers - hazardous waste abatement: (ALCONA, ALPENA, ANTRIM, BENZIE, CHARLEVOIX, CHEBOYGAN, CRAWFORD, EMMET, GRAND TRAVERSE, IOSCO, KALKASKA, LEELANAU, MISSAUKEE, MONTMORENCY, OSCODA, OTSEGO, PRESQUE ISLE AND WEXFORD COUNTIES - Zone 10)		
Levels A, B or C.....	\$ 17.45	12.75
class b.....	\$ 18.64	12.90
Work performed in conjunction with site preparation not requiring the use of personal protective equipment; Also, Level D.....	\$ 16.45	12.75
class a.....	\$ 17.64	12.90

Zone 10

Laborers - hazardous waste abatement: (ALGER, BARAGA, CHIPPEWA, DELTA, DICKINSON, GOGEBIC, HOUGHTON, IRON, KEWEENAW, LUCE, MACKINAC, MARQUETTE, MENOMINEE, ONTONAGON AND SCHOOLCRAFT COUNTIES - Zone 11)		
Levels A, B or C.....	\$ 25.18	12.90
Work performed in conjunction with site preparation not requiring the use of personal protective equipment; Also, Level D.....	\$ 22.58	12.90

Laborers - hazardous waste

abatement: (ALLEGAN, BARRY, BERRIEN, BRANCH, CALHOUN, CASS, IONIA COUNTY (except the city of Portland); KALAMAZOO, KENT, LAKE, MANISTEE, MASON, MECOSTA, MONTCALM, MUSKEGON, NEWAYGO, OCEANA, OSCEOLA, OTTAWA, ST. JOSEPH AND VAN BUREN COUNTIES - Zone 9)		
Levels A, B or C.....\$ 21.88		13.26
Work performed in conjunction with site preparation not requiring the use of personal protective equipment;		
Also, Level D.....\$ 20.80		12.90
Laborers - hazardous waste abatement: (ARENAC, BAY, CLARE, GLADWIN, GRATIOT, HURON, ISABELLA, MIDLAND, OGEMAW, ROSCOMMON, SAGINAW AND TUSCOLA COUNTIES - Zone 8)		
Levels A, B or C.....\$ 23.74		12.95
Work performed in conjunction with site preparation not requiring the use of personal protective equipment;		
Also, Level D.....\$ 20.80		12.90
Laborers - hazardous waste abatement: (CLINTON, EATON AND INGHAM COUNTIES; IONIA COUNTY (City of Portland); LIVINGSTON COUNTY (west of Oak Grove Rd., including the City of Howell) - Zone 6)		
Levels A, B or C.....\$ 26.33		12.95
Work performed in conjunction with site preparation not requiring the use of personal protective equipment;		
Also, Level D.....\$ 24.64		12.90
Laborers - hazardous waste abatement: (GENESEE, LAPEER AND SHIAWASSEE COUNTIES - Zone 7)		
Levels A, B or C.....\$ 24.20		13.80
Work performed in		

conjunction with site preparation not requiring the use of personal protective equipment; Also, Level D.....\$ 23.20	13.80
Laborers - hazardous waste abatement: (HILLSDALE, JACKSON AND LENAWEЕ COUNTIES - Zone 4) Levels A, B or C.....\$ 27.13	14.95
Work performed in conjunction with site preparation not requiring the use of personal protective equipment; Also, Level D.....\$ 24.17	12.90
Laborers - hazardous waste abatement: (LIVINGSTON COUNTY (east of Oak Grove Rd. and south of M-59, excluding the city of Howell); AND WASHTENAW COUNTY - Zone 3) Levels A, B or C.....\$ 29.93	14.20
Work performed in conjunction with site preparation not requiring the use of personal protective equipment; Also, Level D.....\$ 28.93	14.20
Laborers - hazardous waste abatement: (MACOMB AND WAYNE COUNTIES - Zone 1) Levels A, B or C.....\$ 29.93	16.90
Work performed in conjunction with site preparation not requiring the use of personal protective equipment; Also, Level D.....\$ 28.93	16.90
Laborers - hazardous waste abatement: (MONROE COUNTY - Zone 4) Levels A, B or C.....\$ 31.75	14.90
Work performed in conjunction with site preparation not requiring the use of personal protective equipment; Also, Level D.....\$ 31.75	14.90
Laborers - hazardous waste	

abatement: (OAKLAND COUNTY
 and the Northeast portion of
 LIVINGSTON COUNTY bordered by
 Oak Grove Road on the West
 and M-59 on the South - Zone
 2)

Level A, B, C.....	\$ 29.93	16.90
Work performed in conjunction with site preparation not requiring the use of personal protective equipment;		
Also, Level D.....	\$ 28.93	16.90

Laborers - hazardous waste
 abatement: (SANILAC AND ST.
 CLAIR COUNTIES - Zone 5)

Levels A, B or C.....	\$ 26.21	16.62
Work performed in conjunction with site preparation not requiring the use of personal protective equipment;		
Also, Level D.....	\$ 24.75	16.35

 LAB00259-001 09/01/2022

AREA 1: MACOMB, OAKLAND AND WAYNE COUNTIES
 AREA 2: ALCONA, ALGER, ALLEGAN, ALPENA, ANTRIM, ARENAC, BARAGA,
 BARRY, BAY, BENZIE, BERRIEN, BRANCH, CALHOUN, CASS, CHARLEVOIX,
 CHEBOYGAN, CHIPPEWA, CLARE, CLINTON, CRAWFORD, DELTA,
 DICKINSON, EATON, EMMET, GENESEE, GLADWIN, GOGEBIC, GRAND
 TRAVERSE, GRATIOT, HILLSDALE, HOUGHTON, HURON, INGHAM, IONIA,
 IOSCO, IRON, ISABELLA, JACKSON, KALAMAZOO, KALKASKA, KENT,
 KEWEENAW, LAKE, LAPEER, LEELANAU, LENAWEE, LIVINGSTON, LUCE,
 MACKINAC, MANISTEE, MARQUETTE, MASON, MECOSTA, MENOMINEE,
 MIDLAND, MISSAUKEE, MONROE, MONTCALM, MONTMORENCY, MUSKEGON,
 NEWAYGO, OCEANA, OGEMAW, ONTONAGON, OSCEOLA, OSCODA, OTSEGO,
 OTTAWA, PRESQUE ISLE, ROSCOMMON, SAGINAW, ST. CLARE, ST.
 JOSEPH, SANILAC, SCHOOLCRAFT, SHIAWASSEE, TUSCOLA, VAN BUREN,
 WASHTENAW AND WEXFORD COUNTIES

Rates Fringes

Laborers - tunnel, shaft and
 caisson:

AREA 1		
GROUP 1.....	\$ 23.62	16.95
GROUP 2.....	\$ 23.73	19.95
GROUP 3.....	\$ 23.79	16.95

GROUP 4.....	\$ 23.97	16.95
GROUP 5.....	\$ 24.22	16.95
GROUP 6.....	\$ 24.55	16.95
GROUP 7.....	\$ 17.83	16.95
AREA 2		
GROUP 1.....	\$ 25.15	12.95
GROUP 2.....	\$ 25.24	12.95
GROUP 3.....	\$ 25.34	12.95
GROUP 4.....	\$ 25.50	12.95
GROUP 5.....	\$ 25.76	12.95
GROUP 6.....	\$ 26.07	12.95
GROUP 7.....	\$ 18.34	12.95

SCOPE OF WORK: Tunnel, shaft and caisson work of every type and description and all operations incidental thereto, including, but not limited to, shafts and tunnels for sewers, water, subways, transportation, diversion, sewerage, caverns, shelters, aquifers, reservoirs, missile silos and steel sheeting for underground construction.

TUNNEL LABORER CLASSIFICATIONS

GROUP 1: Tunnel, shaft and caisson laborer, dump, shanty, hog house tender, testing (on gas) and watchman

GROUP 2: Manhole, headwall, catch basin builder, bricklayer tender, mortar machine and material mixer

GROUP 3: Air tool operator (jackhammer, bush hammer and grinder), first bottom, second bottom, cage tender, car pusher, carrier, concrete, concrete form, concrete repair, cement invert laborer, cement finisher, concrete shoveler, conveyor, floor, gasoline and electric tool operator, gunite, grout operator, welder, heading dinky person, inside lock tender, pea gravel operator, pump, outside lock tender, scaffold, top signal person, switch person, track, tugger, utility person, vibrator, winch operator, pipe jacking, wagon drill and air track operator and concrete saw operator (under 40 h.p.)

GROUP 4: Tunnel, shaft and caisson mucker, bracer, liner plate, long haul dinky driver and well point

GROUP 5: Tunnel, shaft and caisson miner, drill runner, key board operator, power knife operator, reinforced steel or mesh (e.g. wire mesh, steel mats, dowel bars, etc.)

GROUP 6: Dynamite and powder

GROUP 7: Restoration laborer, seeding, sodding, planting,

cutting, mulching and top soil grading; and the restoration of property such as replacing mailboxes, wood chips, planter boxes, flagstones, etc.

 LAB00334-001 09/01/2021

	Rates	Fringes
Laborers - open cut:		
ZONE 1 - MACOMB, OAKLAND AND WAYNE COUNTIES:		
GROUP 1.....	\$ 23.47	16.95
GROUP 2.....	\$ 23.58	16.95
GROUP 3.....	\$ 23.63	16.95
GROUP 4.....	\$ 23.71	16.95
GROUP 5.....	\$ 23.77	16.95
GROUP 6.....	\$ 21.22	16.95
GROUP 7.....	\$ 17.84	16.95
ZONE 2 - LIVINGSTON COUNTY (east of M-151 (Oak Grove Rd.)); MONROE AND WASHTENAW COUNTIES:		
GROUP 1.....	\$ 24.80	12.95
GROUP 2.....	\$ 24.91	12.95
GROUP 3.....	\$ 25.03	12.95
GROUP 4.....	\$ 25.10	12.95
GROUP 5.....	\$ 25.25	12.95
GROUP 6.....	\$ 22.55	12.95
GROUP 7.....	\$ 19.19	12.95
ZONE 3 - CLINTON, EATON, GENESEE, HILLSDALE AND INGHAM COUNTIES; IONIA COUNTY (City of Portland); JACKSON, LAPEER AND LENAWEE COUNTIES; LIVINGSTON COUNTY (west of M-151 Oak Grove Rd.); SANILAC, ST. CLAIR AND SHIAWASSEE COUNTIES:		
GROUP 1.....	\$ 22.99	12.95
GROUP 2.....	\$ 23.13	12.95
GROUP 3.....	\$ 23.25	12.95
GROUP 4.....	\$ 23.30	12.95
GROUP 5.....	\$ 23.44	12.95
GROUP 6.....	\$ 20.74	12.95
GROUP 7.....	\$ 17.89	12.95
ZONE 4 - ALCONA, ALLEGAN, ALPENA, ANTRIM, ARENAC, BARRY, BAY, BENZIE,		

BERRIEN, BRANCH,
 CALHOUN, CASS, CHARLEVOIX,
 CHEBOYGAN, CLARE,
 CRAWFORD, EMMET,
 GLADWIN, GRAND TRAVERSE,
 GRATIOT AND HURON
 COUNTIES; IONIA COUNTY
 (EXCEPT THE CITY OF
 PORTLAND); IOSCO,
 ISABELLA, KALAMAZOO,
 KALKASKA, KENT,
 LAKE, LEELANAU, MANISTEE,
 MASON, MECOSTA, MIDLAND,
 MISSAUKEE, MONTCALM,
 MONTMORENCY, MUSKEGON,
 NEWAYGO, OCEANA, OGEMAW,
 OSCEOLA, OSCODA, OTSEGO,
 OTTAWA, PRESQUE ISLE,
 ROSCOMMON, SAGINAW, ST.
 JOSEPH, TUSCOLA, VAN BUREN
 AND WEXFORD COUNTIES:

GROUP 1.....	\$ 22.02	12.95
GROUP 2.....	\$ 22.15	12.95
GROUP 3.....	\$ 22.26	12.95
GROUP 4.....	\$ 22.33	12.95
GROUP 5.....	\$ 22.45	12.95
GROUP 6.....	\$ 19.67	12.95
GROUP 7.....	\$ 18.01	12.95

ZONE 5 - ALGER, BARAGA,
 CHIPPEWA, DELTA,
 DICKINSON, GOGEBIC,
 HOUGHTON, IRON,
 KEWEENAW, LUCE, MACKINAC,
 MARQUETTE, MENOMINEE,
 ONTONAGON AND SCHOOLCRAFT
 COUNTIES:

GROUP 1.....	\$ 22.24	12.95
GROUP 2.....	\$ 22.38	12.95
GROUP 3.....	\$ 22.51	12.95
GROUP 4.....	\$ 22.56	12.95
GROUP 5.....	\$ 22.61	12.95
GROUP 6.....	\$ 19.99	12.95
GROUP 7.....	\$ 18.10	12.95

SCOPE OF WORK:

Open cut construction work shall be construed to mean work which requires the excavation of earth including industrial, commercial and residential building site excavation and preparation, land balancing, demolition and

removal of concrete and underground appurtenances, grading, paving, sewers, utilities and improvements; retention, oxidation, flocculation and irrigation facilities, and also including but not limited to underground piping, conduits, steel sheeting for underground construction, and all work incidental thereto, and general excavation. For all areas except the Upper Peninsula, open cut construction work shall also be construed to mean waterfront work, piers, docks, seawalls, breakwalls, marinas and all incidental work. Open cut construction work shall not include any structural modifications, alterations, additions and repairs to buildings, or highway work, including roads, streets, bridge construction and parking lots or steel erection work and excavation for the building itself and back filling inside of and within 5 ft. of the building and foundations, footings and piers for the building. Open cut construction work shall not include any work covered under Tunnel, Shaft and Caisson work.

OPEN CUT LABORER CLASSIFICATIONS

GROUP 1: Construction laborer

GROUP 2: Mortar and material mixer, concrete form person, signal person, well point person, manhole, headwall and catch basin builder, headwall, seawall, breakwall and dock builder

GROUP 3: Air, gasoline and electric tool operator, vibrator operator, driller, pump person, tar kettle operator, bracer, rodder, reinforced steel or mesh person (e.g., wire mesh, steel mats, dowel bars, etc.), welder, pipe jacking and boring person, wagon drill and air track operator and concrete saw operator (under 40 h.p.), windlass and tugger person and directional boring person

GROUP 4: Trench or excavating grade person

GROUP 5: Pipe layer (including crock, metal pipe, multi-plate or other conduits)

GROUP 6: Grouting man, audio-visual television operations and all other operations in connection with closed circuit television inspection, pipe cleaning and pipe relining work and the installation and repair of water service pipe and appurtenances

GROUP 7: Restoration laborer, seeding, sodding, planting, cutting, mulching and top soil grading; and the restoration of property such as replacing mailboxes, wood chips,

planter boxes, flagstones, etc.

LAB00465-001 06/01/2022

LABORER: Highway, Bridge and Airport Construction

AREA 1: GENESEE, MACOMB, MONROE, OAKLAND, WASHTENAW AND WAYNE COUNTIES

AREA 2: ALLEGAN, BARRY, BAY, BERRIEN, BRANCH, CALHOUN, CASS, CLINTON, EATON, GRATIOT, HILLSDALE, HURON, INGHAM, JACKSON, KALAMAZOO, LAPEER, LENAWEE, LIVINGSTON, MIDLAND, MUSKEGON, SAGINAW, SANILAC, SHIAWASSEE, ST. CLAIR, ST. JOSEPH, TUSCOLA AND VAN BUREN COUNTIES

AREA 3: ALCONA, ALPENA, ANTRIM, ARENAC, BENZIE, CHARLEVOIX, CHEBOYGAN, CLARE, CRAWFORD, EMMET, GLADWIN, GRAND TRAVERSE, IONIA, IOSCO, ISABELLA, KALKASKA, KENT, LAKE, LEELANAU, MANISTEE, MASON, MECOSTA, MISSAUKEE, MONTCALM, MONTMORENCY, NEWAYGO, OCEANA, OGEMAW, OSCEOLA, OSCODA, OTSEGO, OTTAWA, PRESQUE ISLE, ROSCOMMON AND WEXFORD COUNTIES

AREA 4: ALGER, BARAGA, CHIPPEWA, DELTA, DICKINSON, GOGEBIC, HOUGHTON, IRON, KEWEENAW, LUCE, MACKINAC, MARQUETTE, MENOMINEE, ONTONAGON AND SCHOOLCRAFT COUNTIES

	Rates	Fringes
LABORER (AREA 1)		
GROUP 1.....	\$ 32.02	13.95
GROUP 2.....	\$ 32.15	13.95
GROUP 3.....	\$ 32.33	13.95
GROUP 4.....	\$ 32.41	13.95
GROUP 5.....	\$ 32.62	13.95
GROUP 6.....	\$ 32.92	13.95
LABORER (AREA 2)		
GROUP 1.....	\$ 26.92	12.90
GROUP 2.....	\$ 27.12	12.90
GROUP 3.....	\$ 27.36	12.90
GROUP 4.....	\$ 27.71	12.90
GROUP 5.....	\$ 27.58	12.90
GROUP 6.....	\$ 27.92	12.90
LABORER (AREA 3)		
GROUP 1.....	\$ 26.22	12.90
GROUP 2.....	\$ 26.43	12.90
GROUP 3.....	\$ 26.72	12.90
GROUP 4.....	\$ 27.16	12.90
GROUP 5.....	\$ 26.78	12.90

GROUP 6.....	\$ 27.21	12.90
LABORER (AREA 4)		
GROUP 1.....	\$ 26.22	12.90
GROUP 2.....	\$ 26.43	12.90
GROUP 3.....	\$ 26.72	12.90
GROUP 4.....	\$ 27.16	12.90
GROUP 5.....	\$ 26.78	12.90
GROUP 6.....	\$ 27.21	12.90

LABORER CLASSIFICATIONS

GROUP 1: Asphalt shoveler or loader; asphalt plant misc.; burlap person; yard person; dumper (wagon, truck, etc.); joint filling laborer; miscellaneous laborer; unskilled laborer; sprinkler laborer; form setting laborer; form stripper; pavement reinforcing; handling and placing (e.g., wire mesh, steel mats, dowel bars); mason's tender or bricklayer's tender on manholes; manhole builder; headwalls, etc.; waterproofing, (other than buildings) seal coating and slurry mix, shoring, underpinning; pressure grouting; bridge pin and hanger removal; material recycling laborer; horizontal paver laborer (brick, concrete, clay, stone and asphalt); ground stabilization and modification laborer; grouting; waterblasting; top person; railroad track and trestle laborer; carpenters' tender; guard rail builders' tender; earth retention barrier and wall and M.S.E. wall installer's tender; highway and median installer's tender (including sound, retaining, and crash barriers); fence erector's tender; asphalt raker tender; sign installer; remote control operated equipment.

GROUP 2: Mixer operator (less than 5 sacks); air or electric tool operator (jackhammer, etc.); spreader; boxperson (asphalt, stone, gravel); concrete paddler; power chain saw operator; paving batch truck dumper; tunnel mucker (highway work only); concrete saw (under 40 h.p.) and dry pack machine; roto-mill grounds person.

GROUP 3: Tunnel miner (highway work only); finishers tenders; guard rail builders; highway and median barrier installer; earth retention barrier and wall and M.S.E. wall installer's (including sound, retaining and crash barriers); fence erector; bottom person; powder person; wagon drill and air track operator; diamond and core drills; grade checker; certified welders; curb and side rail setter's tender.

GROUP 4: Asphalt raker

GROUP 5: Pipe layers, oxy-gun

GROUP 6: Line-form setter for curb or pavement; asphalt screed checker/screw man on asphalt paving machines.

LAB01076-005 04/01/2022

MICHIGAN STATEWIDE

	Rates	Fringes
LABORER (DISTRIBUTION WORK)		
Zone 1.....	\$ 25.17	13.32
Zone 2.....	\$ 23.47	13.40
Zone 3.....	\$ 21.60	13.45
Zone 4.....	\$ 20.97	13.43
Zone 5.....	\$ 21.00	13.40

DISTRIBUTION WORK - The construction, installation, treating and reconditioning of distribution pipelines transporting coal, oil, gas or other similar materials, vapors or liquids, including pipelines within private property boundaries, up to and including the meter settings on residential, commercial, industrial, institutional, private and public structures. All work covering pumping stations and tank farms not covered by the Building Trades Agreement. Other distribution lines with the exception of sewer, water and cable television are included.

Underground Duct Layer Pay: \$.40 per hour above the base pay rate.

- Zone 1 - Macomb, Oakland and Wayne
- Zone 2 - Monroe and Washtenaw
- Zone 3 - Bay, Genesee, Lapeer, Midland, Saginaw, Sanilac, Shiawassee and St. Clair
- Zone 4 - Alger, Baraga, Chippewa, Delta, Dickinson, Gogebic, Houghton, Iron, Keweenaw, Luce, Mackinac, Marquette, Menominee, Ontonagon and Schoolcraft
- Zone 5 - Remaining Counties in Michigan

PAIN0022-002 07/01/2008

HILLSDALE, JACKSON AND LENAWEE COUNTIES; LIVINGSTON COUNTY (east of the eastern city limits of Howell, not including the city of Howell, north to the Genesee County line and south to the Washtenaw County line); MACOMB, MONROE, OAKLAND, WASHTENAW AND WAYNE COUNTIES:

	Rates	Fringes
PAINTER.....	\$ 25.06	14.75

FOOTNOTES: For all spray work and journeyman rigging for spray work, also blowing off, \$0.80 per hour additional (applies only to workers doing rigging for spray work on off the floor work. Does not include setting up or moving rigging on floor surfaces, nor does it apply to workers engaged in covering up or tending spray equipment. For all sandblasting and spray work performed on highway bridges, overpasses, tanks or steel, \$0.80 per hour additional. For all brushing, cleaning and other preparatory work (other than spraying or steeplejack work) at scaffold heights of fifty (50) feet from the ground or higher, \$0.50 per hour additional. For all preparatorial work and painting performed on open steel under forty (40) feet when no scaffolding is involved, \$0.50 per hour additional. For all swing stage work-window jacks and window belts-exterior and interior, \$0.50 per hour additional. For all spray work and sandblaster work to a scaffold height of forty (40) feet above the floor level, \$0.80 per hour additional. For all preparatorial work and painting on all highway bridges or overpasses up to forty (40) feet in height, \$0.50 per hour additional. For all steeplejack work performed where the elevation is forty (40) feet or more, \$1.25 per hour additional.

PAIN0312-001 06/01/2018

EXCLUDES: ALLEGAN COUNTY (Townships of Dorr, Fillmore, Heath, Hopkins, Laketown, Leighton, Manlius, Monterey, Overisel, Salem, Saugatuck and Wayland); INCLUDES: Barry, Berrien, Branch, Calhoun, Cass, Hillsdale, Kalamazoo, St. Joseph, Van Buren

	Rates	Fringes
PAINTER		
Brush and roller.....	\$ 23.74	13.35
Spray, Sandblast, Sign		
Painting.....	\$ 24.94	13.35

PAIN0845-003 05/10/2018

CLINTON COUNTY; EATON COUNTY (does not include the townships of Bellevue and Olivet); INGHAM COUNTY; IONIA COUNTY (east of Hwy.

M 66); LIVINGSTON COUNTY (west of the eastern city limits of Howell, including the city of Howell, north to the Genesee County line and south to the Washtenaw County line); AND SHIAWASSEE COUNTY (Townships of Bennington, Laingsbury and Perry):

	Rates	Fringes
PAINTER.....	\$ 25.49	13.74

PAIN0845-015 05/10/2018		

MUSKEGON COUNTY; NEWAYGO COUNTY (except the Townships of Barton, Big Prairie, Brooks, Croton, Ensley, Everett, Goodwell, Grant, Home, Monroe, Norwich and Wilcox); OCEANA COUNTY; OTTAWA COUNTY (except the townships of Allendale, Blendone, Chester, Georgetown, Holland, Jamestown, Olive, Park, Polkton, Port Sheldon, Tallmadge, Wright and Zeeland):

	Rates	Fringes
PAINTER.....	\$ 25.49	13.74

PAIN0845-018 05/10/2018		

ALLEGAN COUNTY (Townships of Dorr, Fillmore, Heath, Hopkins, Laketown, Leighton, Manlius, Monterey, Overisel, Salem, Saugatuck and Wayland); IONIA COUNTY (west of Hwy. M-66); KENT, MECOSTA AND MONTCALM COUNTIES; NEWAYGO COUNTY (Townships of Barton, Big Prairie, Brooks, Croton, Ensley, Everett, Goodwell, Grant, Home, Monroe, Norwich and Wilcox); OSCEOLA COUNTY (south of Hwy. #10); OTTAWA COUNTY (Townships of Allendale, Blendone, Chester, Georgetown, Holland, Jamestown, Olive, Park, Polkton, Port Sheldon, Tallmadge, Wright and Zeeland):

	Rates	Fringes
PAINTER.....	\$ 25.49	13.74

FOOTNOTES: Lead abatement work: \$1.00 per hour additional.

PAIN1011-003 06/02/2022

ALGER, BARAGA, CHIPPEWA, DELTA, DICKINSON, GOGEBIC, HOUGHTON, IRON, KEWEENAW, LUCE, MACKINAC, MARQUETTE, MENOMINEE, ONTONAGON AND SCHOOLCRAFT COUNTIES:

	Rates	Fringes
PAINTER.....	\$ 24.66	14.99

FOOTNOTES: High pay (bridges, overpasses, watertower): 30 to 80 ft.: \$.65 per hour additional. 80 ft. and over: \$1.30 per hour additional.

PAIN1474-002 06/01/2010

HURON COUNTY; LAPEER COUNTY (east of Hwy. M-53); ST. CLAIR, SANILAC AND TUSCOLA COUNTIES:

	Rates	Fringes
PAINTER.....	\$ 23.79	12.02

FOOTNOTES: Lead abatement work: \$1.00 per hour additional. Work with any hazardous material: \$1.00 per hour additional. Sandblasting, steam cleaning and acid cleaning: \$1.00 per hour additional. Ladder work at or above 40 ft., scaffold work at or above 40 ft., swing stage, boatswain chair, window jacks and all work performed over a falling height of 40 ft.: \$1.00 per hour additional. Spray gun work, pick pullers and those handling needles, blowing off by air pressure, and any person rigging (setting up and moving off the ground): \$1.00 per hour additional. Steeplejack, tanks, gas holders, stacks, flag poles, radio towers and beacons, power line towers, bridges, etc.: \$1.00 per hour additional, paid from the ground up.

PAIN1803-003 06/01/2019

ALCONA, ALPENA, ANTRIM, ARENAC, BAY, BENZIE, CHARLEVOIX, CHEBOYGAN, CLARE, CRAWFORD, EMMET, GLADWIN, GRAND TRAVERSE, GRATIOT, IOSCO, ISABELLA, KALKASKA, LAKE, LEELANAU, MANISTEE, MASON, MIDLAND, MISSAUKEE, MONTMORENCY AND OGEMAW COUNTIES; OSCEOLA COUNTY (north of Hwy. #10); OSCODA, OTSEGO, PRESQUE ISLE, ROSCOMMON, SAGINAW AND WEXFORD COUNTIES:

	Rates	Fringes
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PAINTER
Work performed on water,
bridges over water or

moving traffic, radio and powerline towers, elevated tanks, steeples, smoke stacks over 40 ft. of falling heights, recovery of lead-based paints and any work associated with industrial plants, except maintenance of industrial plants.....	\$ 25.39	14.68
All other work, including maintenance of industrial plant.....	\$ 25.39	14.68

FOOTNOTES: Spray painting, sandblasting, blowdown associated with spraying and blasting, water blasting and work involving a swing stage, boatswain chair or spider: \$1.00 per hour additional. All work performed inside tanks, vessels, tank trailers, railroad cars, sewers, smoke stacks, boilers or other spaces having limited egress not including buildings, opentop tanks, pits, etc.: \$1.25 per hour additional.

 PLAS0514-001 06/01/2018

ZONE 1: GENESEE, LIVINGSTON, MACOMB, MONROE, OAKLAND, SAGINAW, WASHTENAW AND WAYNE COUNTIES

ZONE 2: ALCONA, ALGER, ALLEGAN, ALPENA, ANTRIM, ARENAC, BARAGA, BARRY, BAY, BENZIE, BERRIEN, BRANCH, CALHOUN, CASS, CHARLEVOIX, CHEBOYGAN, CHIPPEWA, CLARE, CLINTON, CRAWFORD, DELTA, DICKINSON, EATON, EMMET, GLADWIN, GOGEBIC, GRAND TRAVERSE, GRATIOT, HILLSDALE, HOUGHTON, HURON, INGHAM, IONIA, IOSCO, IRON, ISABELLA, JACKSON, KALAMAZOO, KALKASKA, KENT, KEWEENAW, LAKE, LAPEER, LEELANAU, LENAWEE, LUCE, MACKINAC, MANISTEE, MARQUETTE, MASON, MECOSTA, MENOMINEE, MIDLAND, MISSAUKEE, MONTCALM, MONTMORENCY, MUSKEGON, NEWAYGO, OCEANA, OGEMAW, ONTONAGON, OSCEOLA, OSCODA, OTSEGO, OTTAWA, PRESQUE ISLE, ROSCOMMON, SANILAC, SCHOOLCRAFT, SHIAWASSEE, ST. CLAIR, ST. JOSEPH, TUSCOLA, VAN BUREN AND WEXFORD COUNTIES

	Rates	Fringes
CEMENT MASON/CONCRETE FINISHER		
ZONE 1.....	\$ 31.47	13.81
ZONE 2.....	\$ 29.97	13.81

 PLUM0190-003 05/01/2015

ALCONA, ALGER, ALLEGAN, ALPENA, ANTRIM, ARENAC, BARAGA, BARRY,
 BAY, BENZIE, BERRIEN, BRANCH, CALHOUN, CASS, CHARLEVOIX,
 CHEBOYGAN, CHIPPEWA, CLARE, CLINTON, CRAWFORD, DELTA,
 DICKINSON, EATON, EMMET, GENESEE, GLADWIN, GOGEBIC, GRAND
 TRAVERSE, GRATIOT, HILLSDALE, HOUGHTON, HURON, INGHAM, IONIA,
 IOSCO, IRON, ISABELLA, JACKSON, KALAMAZOO, KALKASKA, KENT,
 KEWEENAW, LAKE, LAPEER, LEELANAU, LENAWEE, LIVINGSTON, LUCE,
 MACKINAC, MACOMB, MANISTEE, MARQUETTE, MASON, MECOSTA,
 MENOMINEE, MIDLAND, MISSAUKEE, MONTCALM, MONTMORENCY, MONROE,
 MUSKEGON, NEWAYGO, OAKLAND, OCEANA, OGEMAW, ONTONAGON, OSCEOLA,
 OSCODA, OTSEGO, OTTAWA, PRESQUE ISLE, ROSCOMMON, SAGINAW, ST.
 CLARE, ST. JOSEPH, SANILAC, SCHOOLCRAFT, SHIAWASSEE, TUSCOLA,
 VAN BUREN, WASHTENAW, WAYNE AND WEXFORD COUNTIES

Rates Fringes

Plumber/Pipefitter - gas
 distribution pipeline:

Welding in conjunction with gas distribution pipeline work.....	\$ 33.03	20.19
All other work:.....	\$ 24.19	12.28

 TEAM0007-004 06/01/2020

AREA 1: ALCONA, ALGER, ALLEGAN, ALPENA, ANTRIM, ARENAC, BARAGA,
 BARRY, BAY, BENZIE, BERRIEN, BRANCH, CALHOUN, CASS, CHARLEVOIX,
 CHEBOYGAN, CHIPPEWA, CLARE, CLINTON, CRAWFORD, DELTA,
 DICKINSON, EATON, EMMET, GLADWIN, GOGEBIC, GRAND TRAVERSE,
 GRATIOT, HILLSDALE, HOUGHTON, HURON, INGHAM, IONIA, IOSCO,
 IRON, ISABELLA, JACKSON, KALAMAZOO, KALKASKA, KENT, KEWEENAW,
 LAKE, LAPEER, LEELANAU, LENAWEE, LUCE, MACKINAC, MANISTEE,
 MARQUETTE, MASON, MECOSTA, MENOMINEE, MIDLAND, MISSAUKEE,
 MONTCALM, MONTMORENCY, MUSKEGON, NEWAYGO, OCEANA, OGEMAW,
 ONTONAGON, OSCEOLA, OSCODA, OTSEGO, OTTAWA, PRESQUE ISLE,
 ROSCOMMON, SAGINAW, SANILAC, SCHOOLCRAFT, SHIAWASSEE, ST.
 CLAIR, ST. JOSEPH, TUSCOLA, VAN BUREN AND WEXFORD COUNTIES

AREA 2: GENESEE, LIVINGSTON, MACOMB, MONROE, OAKLAND, WASHTENAW
 AND WAYNE COUNTIES

Rates Fringes

TRUCK DRIVER

AREA 1 Euclids, double bottoms and lowboys.....	\$ 28.05	.50 + a+b
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Trucks under 8 cu. yds.....	\$ 27.80	.50 + a+b
Trucks, 8 cu. yds. and over.....	\$ 27.90	.50 + a+b
AREA 2		
Euclids, double bottomms and lowboys.....	\$ 24.895	.50 + a+b
Euclids, double bottoms and lowboys.....	\$ 28.15	.50 + a+b
Trucks under 8 cu. yds.....	\$ 27.90	.50 + a+b
Trucks, 8 cu. yds. and over.....	\$ 28.00	.50 + a+b

Footnote:

- a. \$470.70 per week
- b. \$68.70 daily

TEAM0247-004 04/01/2013

AREA 1: ALCONA, ALGER, ALLEGAN, ALPENA, ANTRIM, ARENAC, BARAGA, BARRY, BAY, BENZIE, BERRIEN, BRANCH, CALHOUN, CASS, CHARLEVOIX, CHEBOYGAN, CHIPPEWA, CLARE, CLINTON, CRAWFORD, DELTA, DICKINSON, EATON, EMMET, GLADWIN, GOGEBIC, GRAND TRAVERSE, GRATIOT, HILLSDALE, HOUGHTON, HURON, INGHAM, IONIA, IOSCO, IRON, ISABELLA, JACKSON, KALAMAZOO, KALKASKA, KENT, KEWEENAW, LAKE, LAPEER, LEELANAU, LENAWEE, LUCE, MACKINAC, MANISTEE, MARQUETTE, MASON, MECOSTA, MENOMINEE, MIDLAND, MISSAUKEE, MONTCALM, MONTMORENCY, MUSKEGON, NEWAYGO, OCEANA, OGEMAW, ONTONAGON, OSCEOLA, OSCODA, OTSEGO, OTTAWA, PRESQUE ISLE, ROSCOMMON, SANILAC, SCHOOLCRAFT, SHIAWASSEE, SAGINAW, ST. CLAIR, ST. JOSEPH, TUSCOLA, VAN BUREN AND WEXFORD COUNTIES

AREA 2: GENESEE, LIVINGSTON, MACOMB, MONROE, OAKLAND, WASHTENAW AND WAYNE COUNTIES

	Rates	Fringes
Sign Installer		
AREA 1		
GROUP 1.....	\$ 21.78	11.83
GROUP 2.....	\$ 25.27	11.8375
AREA 2		
GROUP 1.....	\$ 22.03	11.83
GROUP 2.....	\$ 25.02	11.8375

FOOTNOTE:

- a. \$132.70 per week, plus \$17.80 per day.

SIGN INSTALLER CLASSIFICATIONS:

GROUP 1: performs all necessary labor and uses all tools required to construct and set concrete forms required in the installation of highway and street signs

GROUP 2: performs all miscellaneous labor, uses all hand and power tools, and operates all other equipment, mobile or otherwise, required for the installation of highway and street signs

TEAM0247-010 04/01/2018

AREA 1: LAPEER AND SHIAWASSEE COUNTIES

AREA 2: GENESEE, MACOMB, MONROE, OAKLAND, ST. CLAIR, WASHTENAW AND WAYNE COUNTIES

	Rates	Fringes
TRUCK DRIVER (Underground construction)		
AREA 1		
GROUP 1.....	\$ 23.82	19.04
GROUP 2.....	\$ 23.91	19.04
GROUP 3.....	\$ 24.12	19.04
AREA 2		
GROUP 1.....	\$ 24.12	19.04
GROUP 2.....	\$ 24.26	19.04
GROUP 3.....	\$ 24.45	19.04

PAID HOLIDAYS: New Year's Day, Memorial Day, Fourth of July, Labor Day, Thanksgiving Day and Christmas Day.

SCOPE OF WORK: Excavation, site preparation, land balancing, grading, sewers, utilities and improvements; also including but not limited to, tunnels, underground piping, retention, oxidation, flocculation facilities, conduits, general excavation and steel sheeting for underground construction. Underground construction work shall not include any structural modifications, alterations, additions and repairs to buildings or highway work, including roads, streets, bridge construction and parking lots or steel erection.

TRUCK DRIVER CLASSIFICATIONS

GROUP 1: Truck driver on all trucks (EXCEPT dump trucks of 8

cubic yards capacity or over, pole trailers, semis, low boys, Euclid, double bottom and fuel trucks)

GROUP 2: Truck driver on dump trucks of 8 cubic yards capacity or over, pole trailers, semis and fuel trucks

GROUP 3: Truck driver on low boy, Euclid and double bottom

SUMI2002-001 05/01/2002

	Rates	Fringes
Flag Person.....	\$ 10.10 **	0.00
LINE PROTECTOR (ZONE 1: GENESEE, MACOMB, MONROE, OAKLAND, WASHTENAW AND WAYNE)....	\$ 22.89	13.45
LINE PROTECTOR (ZONE 2: STATEWIDE (EXCLUDING GENESEE, MACOMB, MONROE, OAKLAND, WASHTENAW AND WAYNE).....	\$ 20.19	13.45
Pavement Marking Machine (ZONE 1: GENESEE, MACOMB, MONROE, OAKLAND, WASHTENAW AND WAYNE COUNTIES) Group 1.....	\$ 30.52	13.45
Pavement Marking Machine (ZONE 1: GENESEE, MACOMB, MONROE, OAKLAND, WASHTENAW AND WAYNE) Group 2.....	\$ 27.47	13.45
Pavement Marking Machine (ZONE 2: STATEWIDE (EXCLUDING GENESEE, MACOMB, MONROE, OAKLAND, WASHTENAW AND WAYNE COUNTIES) Group 1.....	\$ 26.92	13.45
Pavement Marking Machine (ZONE 2: STATEWIDE (EXCLUDING GENESEE, MACOMB, MONROE, OAKLAND, WASHTENAW AND WAYNE) Group 2.....	\$ 24.23	13.45

WORK CLASSIFICATIONS:

PAVEMENT MARKER GROUP 1: Drives or operates a truck mounted striper, grinder, blaster, groover, or thermoplastic melter for the placement or removal of temporary or permanent pavement markings or markers.

PAVEMENT MARKER GROUP 2: Performs all functions involved for the placement or removal of temporary or permanent pavement markings or markers not covered by the classification of Pavement Marker Group 1 or Line Protector.

LINE PROTECTOR: Performs all operations for the protection or removal of temporary or permanent pavement markings or markers in a moving convoy operation not performed by the classification of Pavement Marker Group 1. A moving convoy operation is comprised of only Pavement Markers Group 1 and Line Protectors.

WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.

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** Workers in this classification may be entitled to a higher minimum wage under Executive Order 14026 (\$16.20) or 13658 (\$12.15). Please see the Note at the top of the wage determination for more information.

Note: Executive Order (EO) 13706, Establishing Paid Sick Leave for Federal Contractors applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2017. If this contract is covered by the EO, the contractor must provide employees with 1 hour of paid sick leave for every 30 hours they work, up to 56 hours of paid sick leave each year. Employees must be permitted to use paid sick leave for their own illness, injury or other health-related needs, including preventive care; to assist a family member (or person who is like family to the employee) who is ill, injured, or has other health-related needs, including preventive care; or for reasons resulting from, or to assist a family member (or person who is like family to the employee) who is a victim of, domestic violence, sexual assault, or stalking. Additional information on contractor requirements and worker protections under the EO is available at <https://www.dol.gov/agencies/whd/government-contracts>.

Unlisted classifications needed for work not included within

the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (ii)).

The body of each wage determination lists the classification and wage rates that have been found to be prevailing for the cited type(s) of construction in the area covered by the wage determination. The classifications are listed in alphabetical order of ""identifiers"" that indicate whether the particular rate is a union rate (current union negotiated rate for local), a survey rate (weighted average rate) or a union average rate (weighted union average rate).

Union Rate Identifiers

A four letter classification abbreviation identifier enclosed in dotted lines beginning with characters other than ""SU"" or ""UAVG"" denotes that the union classification and rate were prevailing for that classification in the survey. Example: PLUM0198-005 07/01/2014. PLUM is an abbreviation identifier of the union which prevailed in the survey for this classification, which in this example would be Plumbers. 0198 indicates the local union number or district council number where applicable, i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. 07/01/2014 is the effective date of the most current negotiated rate, which in this example is July 1, 2014.

Union prevailing wage rates are updated to reflect all rate changes in the collective bargaining agreement (CBA) governing this classification and rate.

Survey Rate Identifiers

Classifications listed under the ""SU"" identifier indicate that no one rate prevailed for this classification in the survey and the published rate is derived by computing a weighted average rate based on all the rates reported in the survey for that classification. As this weighted average rate includes all rates reported in the survey, it may include both union and non-union rates. Example: SULA2012-007 5/13/2014. SU indicates the rates are survey rates based on a weighted average calculation of rates and are not majority rates. LA indicates the State of Louisiana. 2012 is the year of survey on which these classifications and rates are based. The next number, 007

in the example, is an internal number used in producing the wage determination. 5/13/2014 indicates the survey completion date for the classifications and rates under that identifier.

Survey wage rates are not updated and remain in effect until a new survey is conducted.

Union Average Rate Identifiers

Classification(s) listed under the UAVG identifier indicate that no single majority rate prevailed for those classifications; however, 100% of the data reported for the classifications was union data. EXAMPLE: UAVG-OH-0010 08/29/2014. UAVG indicates that the rate is a weighted union average rate. OH indicates the state. The next number, 0010 in the example, is an internal number used in producing the wage determination. 08/29/2014 indicates the survey completion date for the classifications and rates under that identifier.

A UAVG rate will be updated once a year, usually in January of each year, to reflect a weighted average of the current negotiated/CBA rate of the union locals from which the rate is based.

WAGE DETERMINATION APPEALS PROCESS

1.) Has there been an initial decision in the matter? This can be:

- * an existing published wage determination
- * a survey underlying a wage determination
- * a Wage and Hour Division letter setting forth a position on a wage determination matter
- * a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour National Office because National Office has responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations
Wage and Hour Division
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

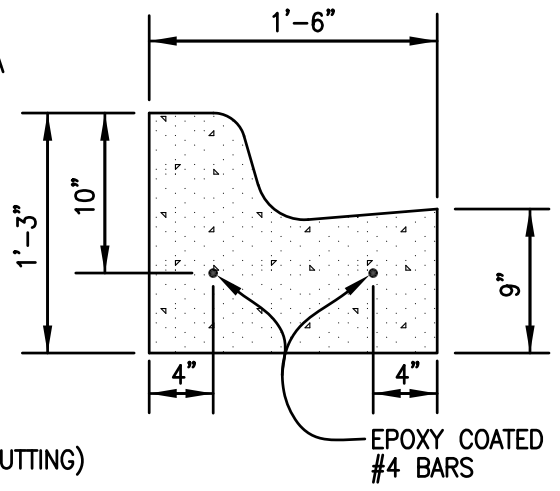
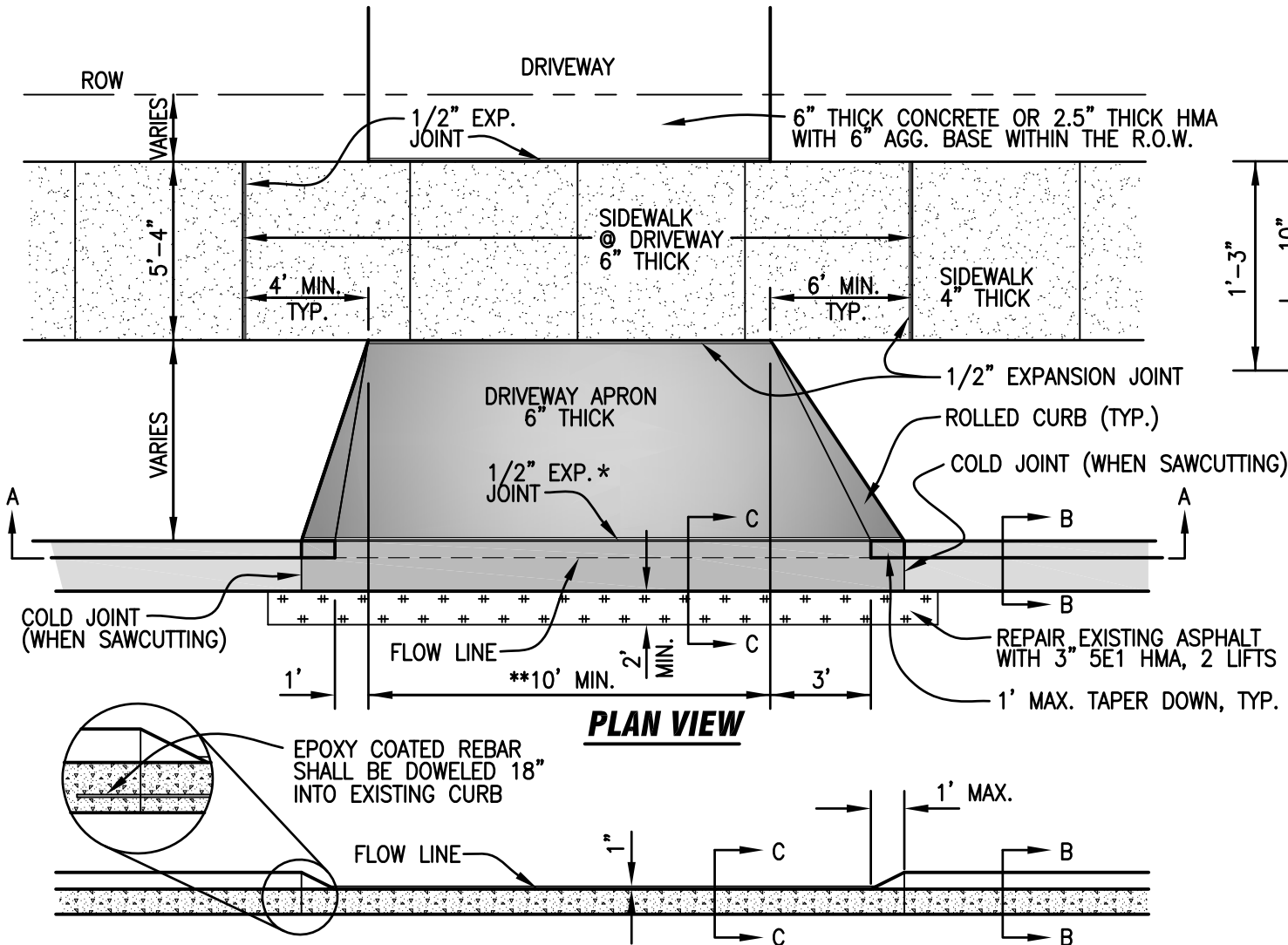
Administrative Review Board
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

4.) All decisions by the Administrative Review Board are final.

=====

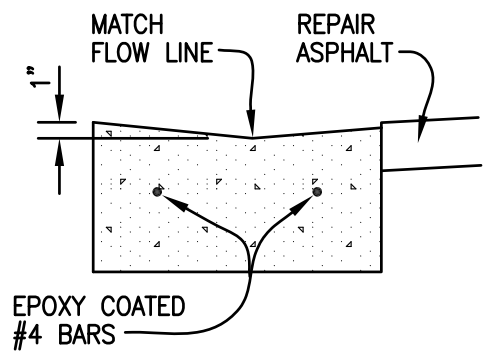
END OF GENERAL DECISIO"

APPENDIX III
CONCRETE CURBING, SIDEWALK
AND DRIVEWAY DETAILS



TYPICAL C2 CURB

SECTION B-B



SECTION C-C

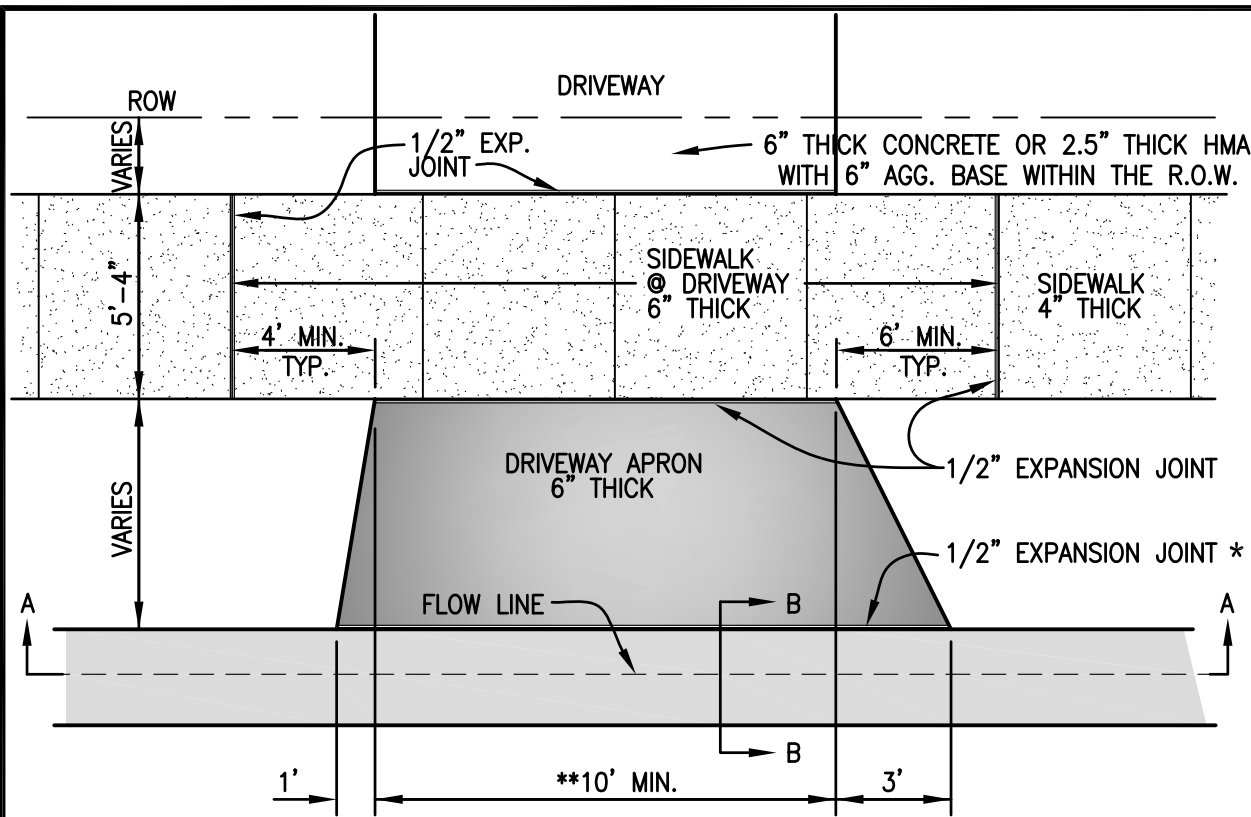
- 1 - REBAR SHALL BE SUPPORTED AGAINST SAGGING USING BAR CHAIRS.
- 2 - INSTALL EXPANSION JOINTS AT SPRING LINES OF RADI AND AT MAXIMUM 300' INTERVALS AND 10' ON EACH SIDE OF EACH CATCH BASIN.
- 3 - INSTALL CONTROL JOINT AT INTERVALS OF 20'.
- 4 - OVERLAP REBAR 12" MINIMUM.
- 5 - ALL JOINTS SHALL BE PLACED AT RIGHT ANGLES TO THE EDGE OF THE CURB AND GUTTER.
- 6 - SEE COLD JOINT DETAIL WHERE CURB CUTS ARE INSTALLED ADJACENT TO EXISTING CURB.
- 7 - THIS DETAIL WILL ALSO APPLY F2 CURB.
- 8 - ALL CURBING SHALL BE 3500 PSI AND INCLUDE THE ADDITION OF FIBERGLASS FIBERS.
- * NO EXPANSION JOINT NEEDED AT CURB IF SIDEWALK DIMENSION TO FACE OF CURB IS LESS THAN 4'
- ** DEFINES CURB CUT WIDTH



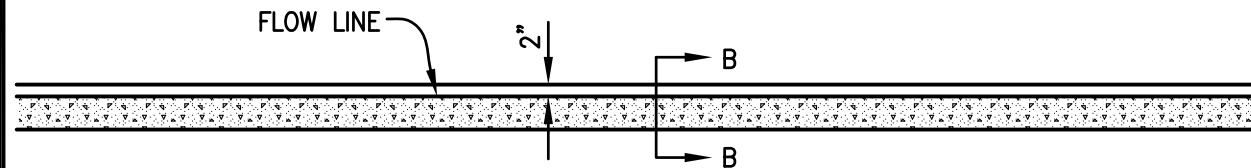
CITY ENGINEER'S OFFICE
MARQUETTE, MICHIGAN
 1100 WRIGHT STREET, MARQUETTE, MI 49855
 PHONE (906)228-0440

STANDARD DETAILS
 DRIVEWAY & APRON DETAIL WITH C2
 CURB AND GUTTER

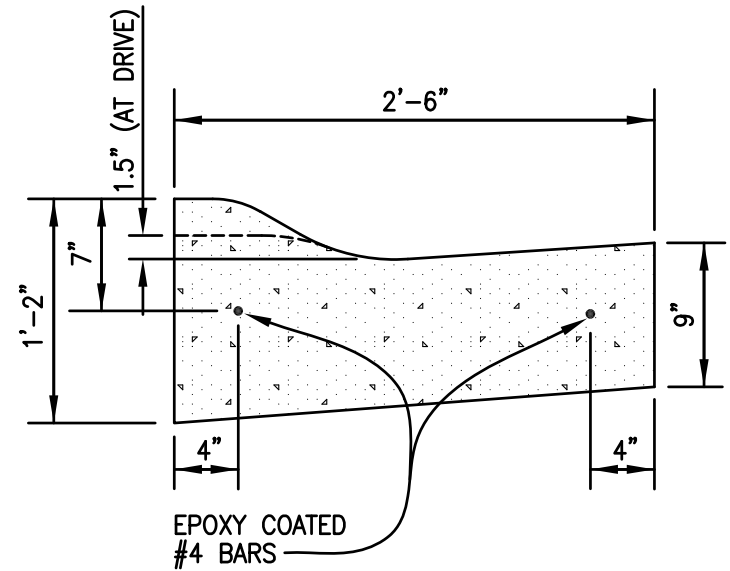
APPROVED BY: M. KILPELA, P.E.
 DRAWN BY: D. SALMON
 DATE: JULY 29, 2021
 PROJECT FOLDER: J:\CADFILES\STD_DTLS
 FILE NAME: DRIVE DETAIL REV 2021.DWG



PLAN VIEW



SECTION A-A



TYPICAL D2 CURB

SECTION B-B

- 1 - REBAR SHALL BE SUPPORTED AGAINST SAGGING USING BAR CHAIRS.
- 2 - INSTALL EXPANSION JOINTS AT SPRING LINES OF RADII AND AT MAXIMUM 300' INTERVALS AND 10' ON EACH SIDE OF EACH CATCH BASIN.
- 3 - INSTALL CONTROL JOINT AT INTERVALS OF 20'.

- 4 - OVERLAP REBAR 12" MINIMUM.
- 5 - ALL JOINTS SHALL BE PLACED AT RIGHT ANGLES TO THE EDGE OF THE CURB AND GUTTER.
- 6 - CURB DOES NOT DROP FOR DRIVEWAY OPENINGS; ALSO KNOWN AS MOUNTABLE CURB.

- 7 - ALL CURBING SHALL BE 3500 PSI AND INCLUDE THE ADDITION OF FIBERGLASS FIBERS.
- * NO EXPANSION JOINT NEEDED AT CURB IF SIDEWALK DIMENSION TO FACE OF CURB IS LESS THAN 4'
- ** DEFINES CURB CUT WIDTH

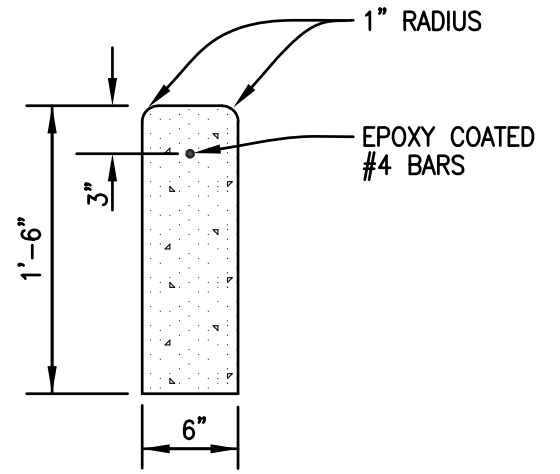
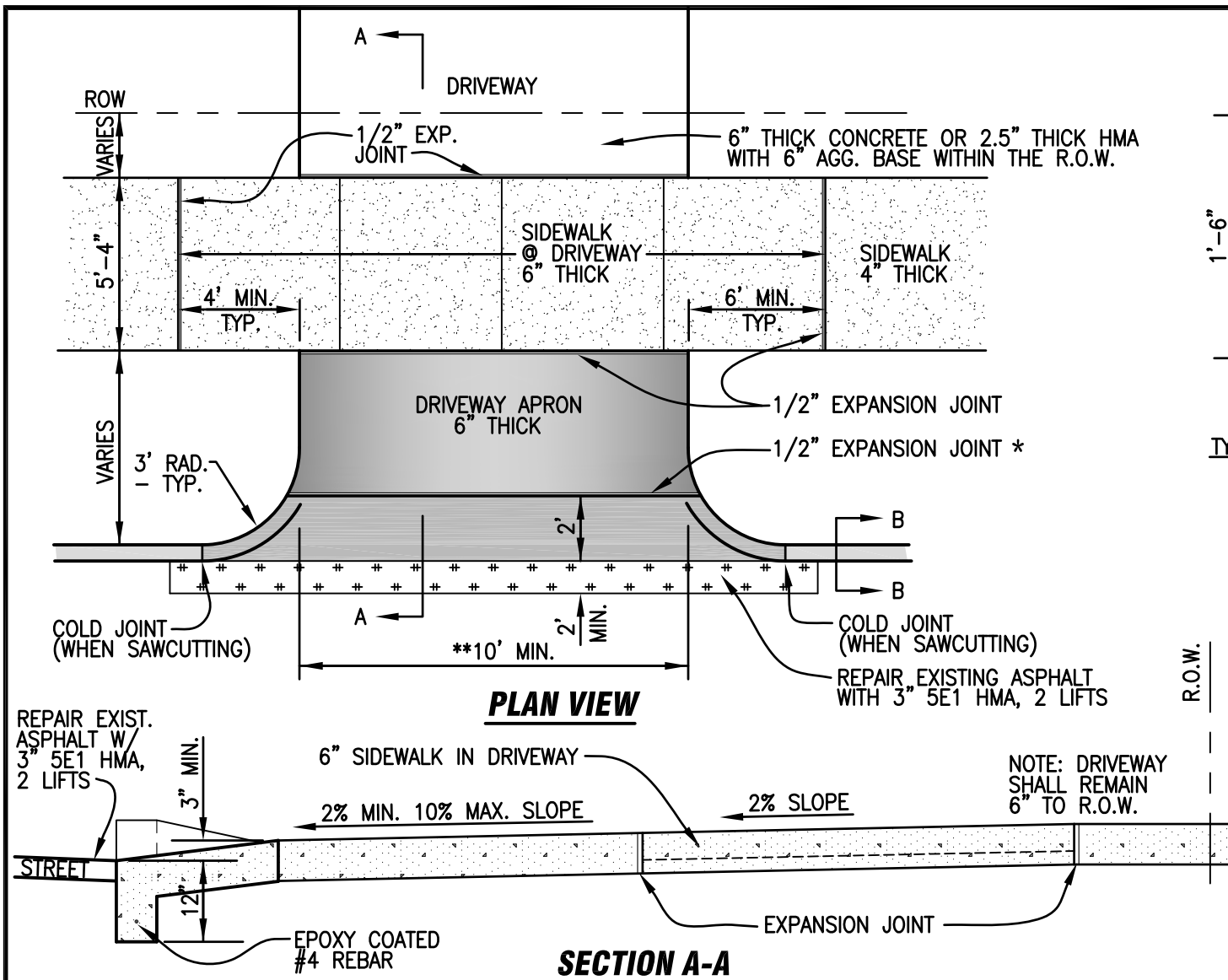


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STANDARD DETAILS

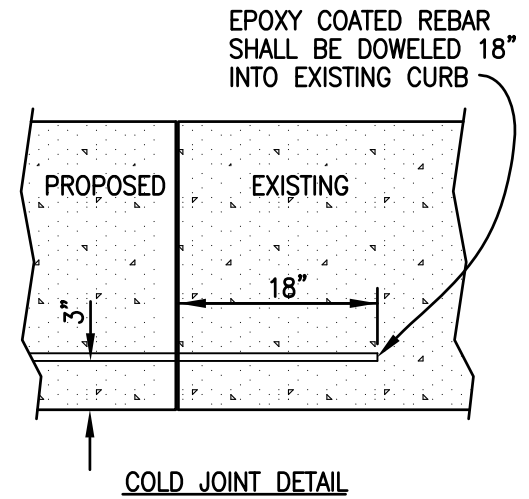
DRIVEWAY & APRON DETAIL WITH D2
 CURB AND GUTTER

APPROVED BY: M. KILPELA, P.E.
 DRAWN BY: D. SALMON
 DATE: JULY 29, 2021
 PROJECT FOLDER: J:\CADFILES\STD_DTLS
 FILE NAME: DRIVE DETAIL REV 2021.DWG



TYPICAL CITY STRAIGHT CURB

SECTION B-B



COLD JOINT DETAIL

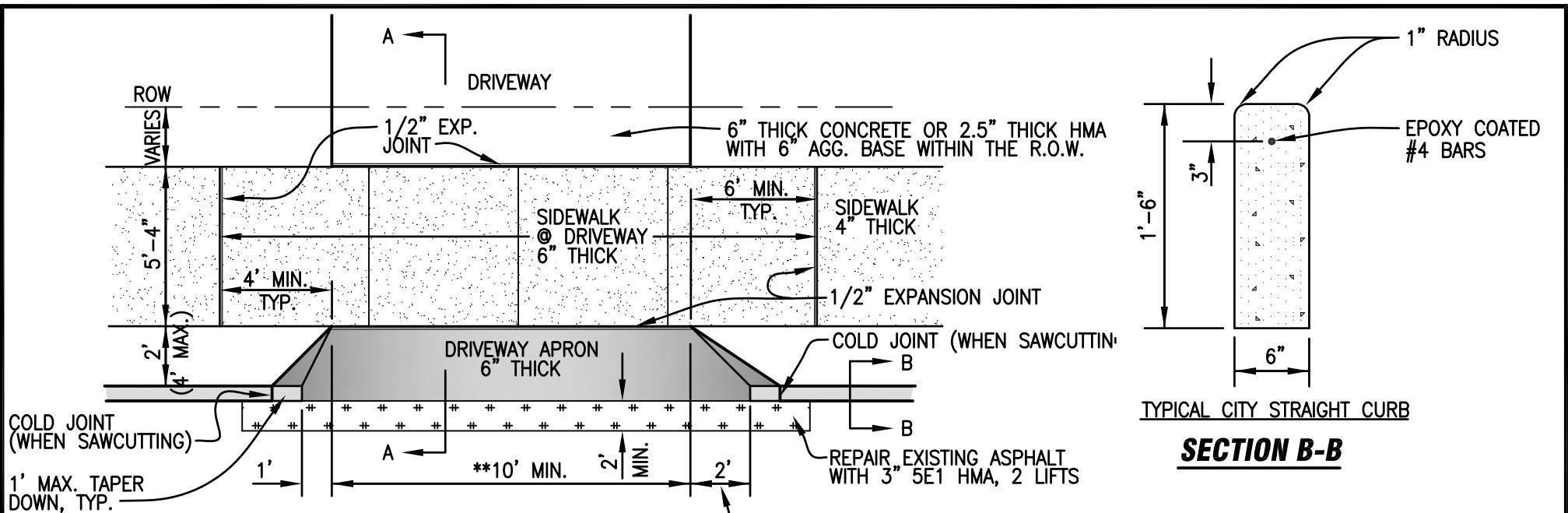
- | | | |
|---|---|---|
| <p>1 - REBAR SHALL BE SUPPORTED AGAINST SAGGING USING BAR CHAIRS.</p> <p>2 - INSTALL EXPANSION JOINTS AT SPRING LINES OF RADI AND AT MAXIMUM 300' INTERVALS AND 10' ON EACH SIDE OF EACH CATCH BASIN.</p> <p>3 - INSTALL CONTROL JOINT AT INTERVALS OF 20'.</p> | <p>4 - OVERLAP REBAR 12" MINIMUM.</p> <p>5 - ALL JOINTS SHALL BE PLACED AT RIGHT ANGLES TO THE EDGE OF THE CURB AND GUTTER.</p> <p>6 - SEE COLD JOINT DETAIL WHERE CURB CUTS ARE INSTALLED ADJACENT TO EXISTING CURB.</p> | <p>7 - ALL CURBING SHALL BE 3500 PSI AND INCLUDE THE ADDITION OF FIBERGLASS FIBERS.</p> <p>* NO EXPANSION JOINT NEEDED AT CURB IF SIDEWALK DIMENSION TO FACE OF CURB IS LESS THAN 4'</p> <p>** DEFINES WIDTH CURB CUT WIDTH</p> |
|---|---|---|



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 1100 WRIGHT STREET, MARQUETTE, MI 49855
 PHONE (906)228-0440

STANDARD DETAILS
 DRIVEWAY & APRON DETAIL WITH
 CITY STRAIGHT CURB

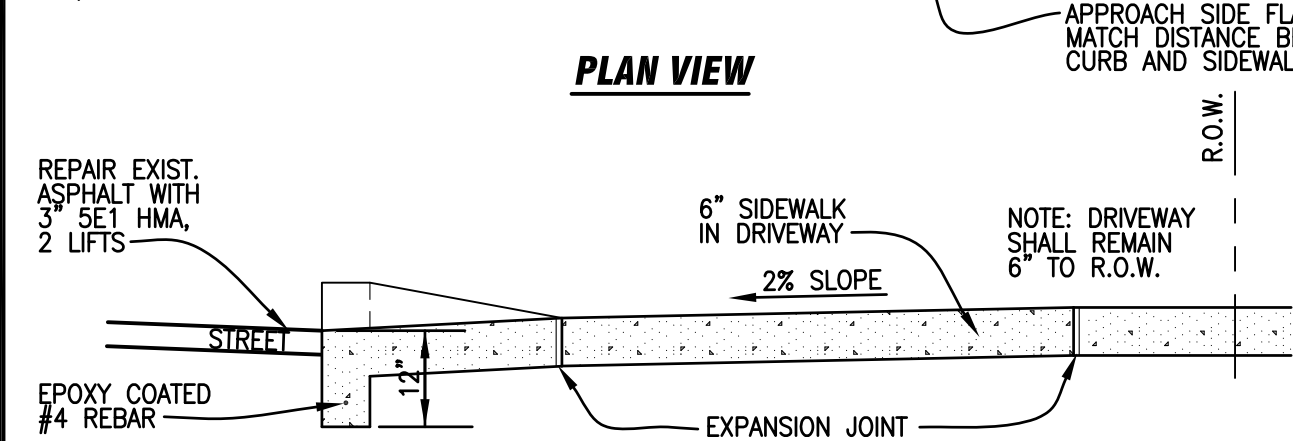
APPROVED BY: M. KILPELA, P.E.
 DRAWN BY: D. SALMON
 DATE: JULY 29, 2021
 PROJECT FOLDER: J:\CADFILES\STD_DTLS
 FILE NAME: DRIVE DETAIL REV 2021.DWG



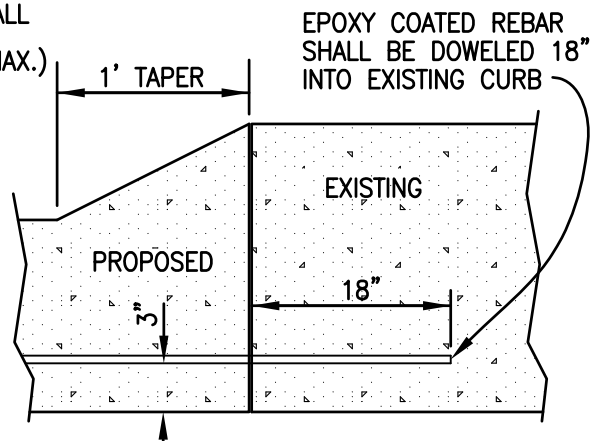
PLAN VIEW

TYPICAL CITY STRAIGHT CURB

SECTION B-B



SECTION A-A



COLD JOINT DETAIL

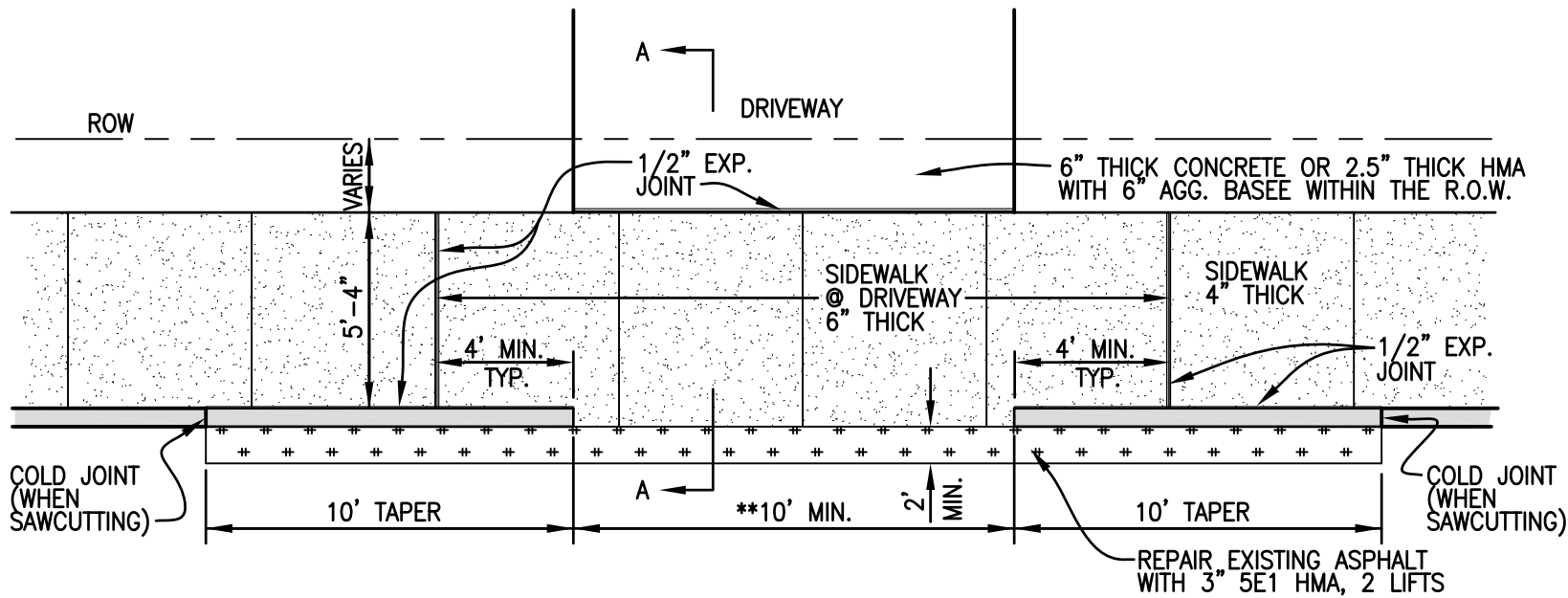
- 1 - REBAR SHALL BE SUPPORTED AGAINST SAGGING USING BAR CHAIRS.
 - 2 - INSTALL EXPANSION JOINTS AT SPRING LINES OF RADI AND AT MAXIMUM 300' INTERVALS AND 10' ON EACH SIDE OF EACH CATCH BASIN.
 - 3 - INSTALL CONTROL JOINT AT INTERVALS OF 20'.
 - 4 - OVERLAP REBAR 12" MINIMUM.
 - 5 - ALL JOINTS SHALL BE PLACED AT RIGHT ANGLES TO THE EDGE OF THE CURB AND GUTTER.
 - 6 - SEE COLD JOINT DETAIL WHERE CURB CUTS ARE INSTALLED ADJACENT TO EXISTING CURB.
 - 7 - ALL CURBING SHALL BE 3500 PSI AND INCLUDE THE ADDITION OF FIBERGLASS FIBERS.
- ** DEFINES WIDTH CURB CUT WIDTH



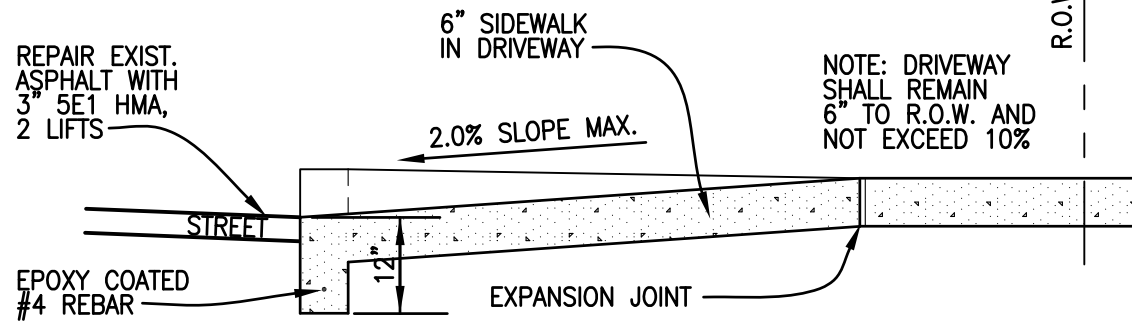
CITY ENGINEER'S OFFICE
MARQUETTE, MICHIGAN
 1100 WRIGHT STREET, MARQUETTE, MI 49855
 PHONE (906)228-0440

STANDARD DETAILS
 DRIVEWAY & APRON DETAIL WITH
 CITY STRAIGHT CURB NEAR SIDEWALK

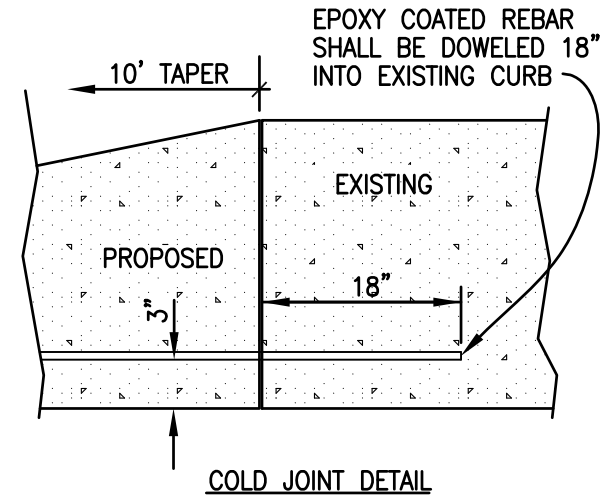
APPROVED BY: M. KILPELA, P.E.
 DRAWN BY: D. SALMON
 DATE: JULY 29, 2021
 PROJECT FOLDER: J:\CADFILES\STD_DTLS
 FILE NAME: DRIVE DETAIL REV 2021.DWG



PLAN VIEW



SECTION A-A



COLD JOINT DETAIL

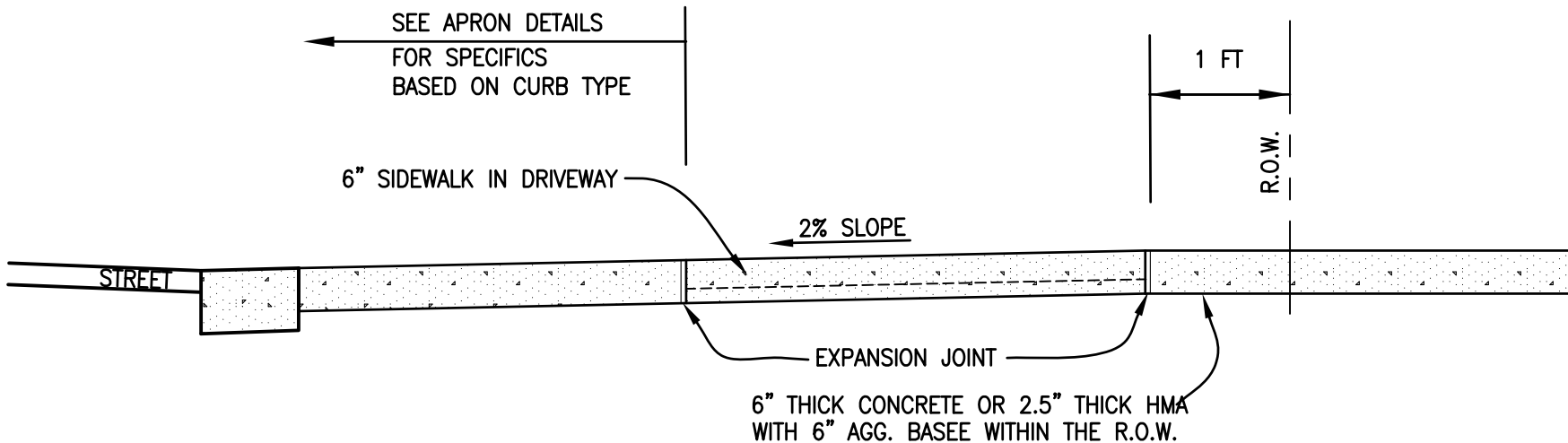
- 1 - REBAR SHALL BE SUPPORTED AGAINST SAGGING USING BAR CHAIRS.
 - 2 - INSTALL EXPANSION JOINTS AT SPRING LINES OF RADII AND AT MAXIMUM 300' INTERVALS AND 10' ON EACH SIDE OF EACH CATCH BASIN.
 - 3 - INSTALL CONTROL JOINT AT INTERVALS OF 20'.
 - 4 - OVERLAP REBAR 12" MINIMUM.
 - 5 - ALL JOINTS SHALL BE PLACED AT RIGHT ANGLES TO THE EDGE OF THE CURB AND GUTTER.
 - 6 - SEE COLD JOINT DETAIL WHERE CURB CUTS ARE INSTALLED ADJACENT TO EXISTING CURB.
 - 7 - ALL CURBING SHALL BE 3500 PSI AND INCLUDE THE ADDITION OF FIBERGLASS FIBERS.
- ** DEFINES WIDTH CURB CUT WIDTH



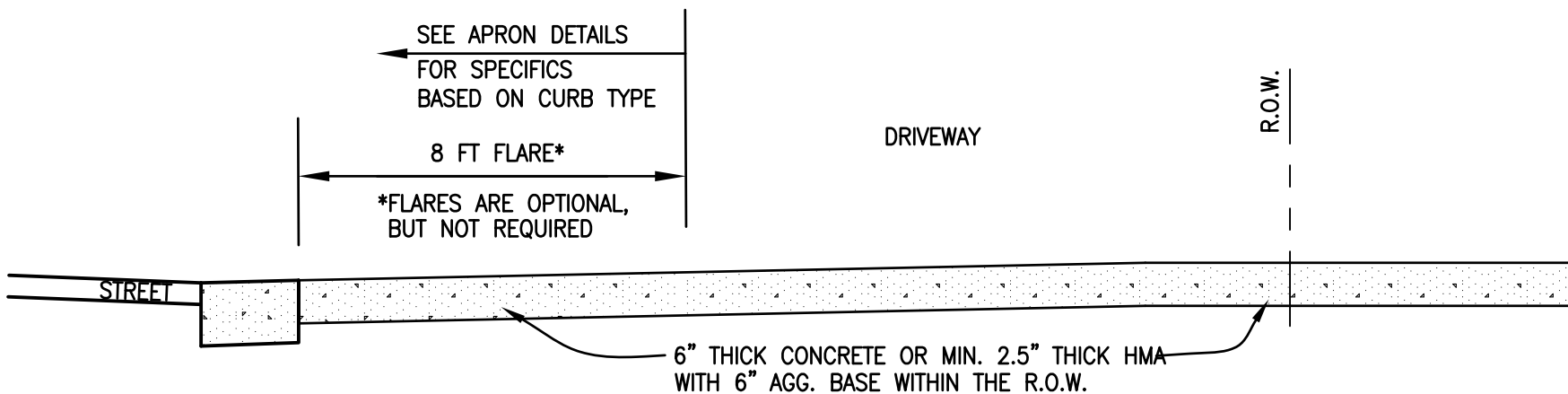
CITY ENGINEER'S OFFICE
MARQUETTE, MICHIGAN
 1100 WRIGHT STREET, MARQUETTE, MI 49855
 PHONE (906)228-0440

STANDARD DETAILS
 DRIVEWAY & APRON DETAIL WITH
 CITY STRAIGHT CURB AT SIDEWALK

APPROVED BY: M. KILPELA, P.E.
 DRAWN BY: D. SALMON
 DATE: JULY 29, 2021
 PROJECT FOLDER: J:\CADFILES\STD_DTLS
 FILE NAME: DRIVE DETAIL REV 2021.DWG



DRIVEWAY WITH EXISTING OR ANTICIPATED FUTURE SIDEWALK



DRIVEWAY WITHOUT SIDEWALK (NONE ANTICIPATED)



CITY ENGINEER'S OFFICE
MARQUETTE, MICHIGAN
1100 WRIGHT STREET, MARQUETTE, MI 49855
PHONE (906)228-0440

STANDARD DETAILS
DRIVEWAY & APRON DETAILS
TYPICAL DRIVEWAY CROSS SECTION

APPROVED BY: M. KILPELA, P.E.
DRAWN BY: D. SALMON
DATE: JULY 29, 2021
PROJECT FOLDER: J:\CADFILES\STD_DTLS
FILE NAME: DRIVE DETAIL REV 2021.DWG


APPENDIX IV
PROJECT LOCATIONS
AND PLANS

City of Marquette MQ23-018 2023 Sidewalk Contract Overview Map Booklet

Legend

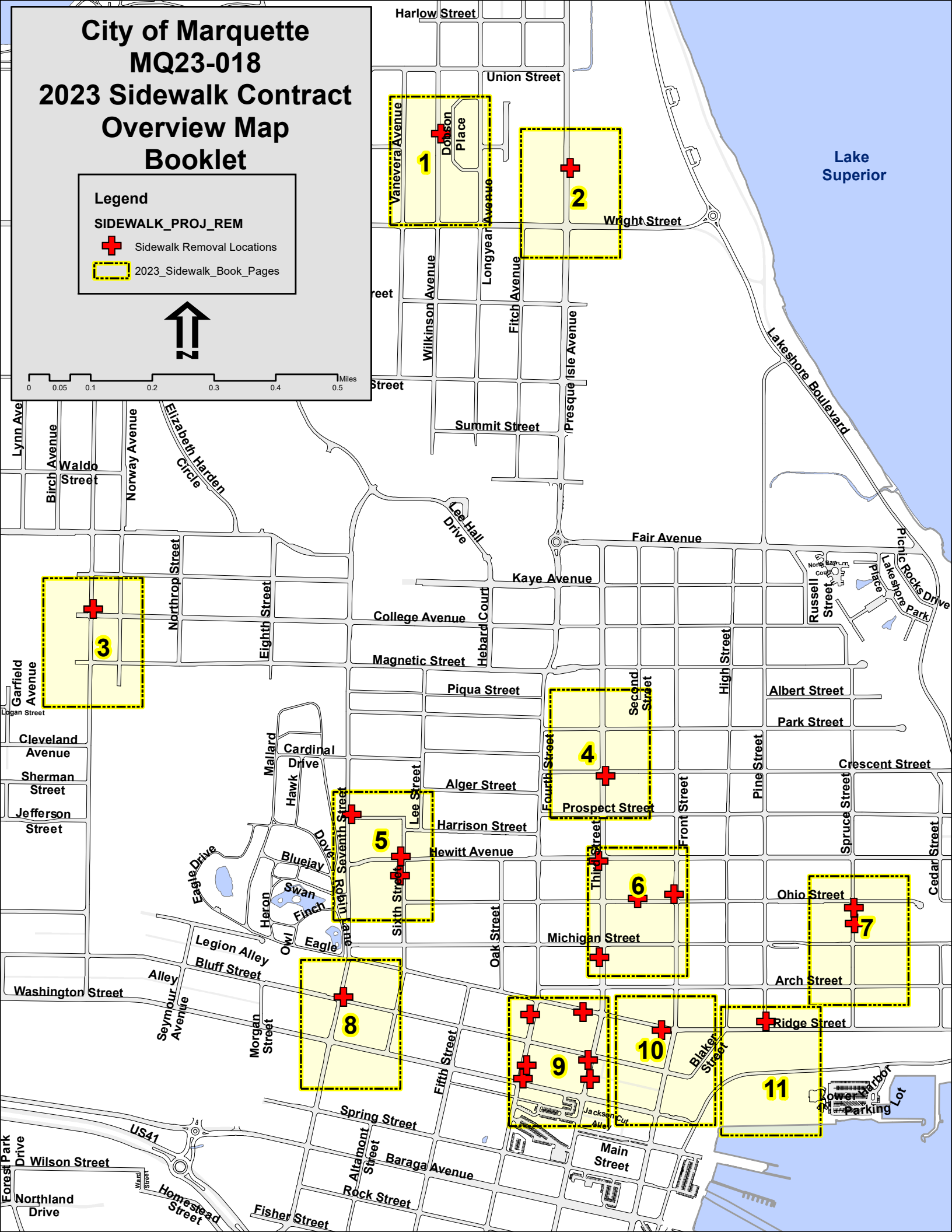
SIDEWALK_PROJ_REM

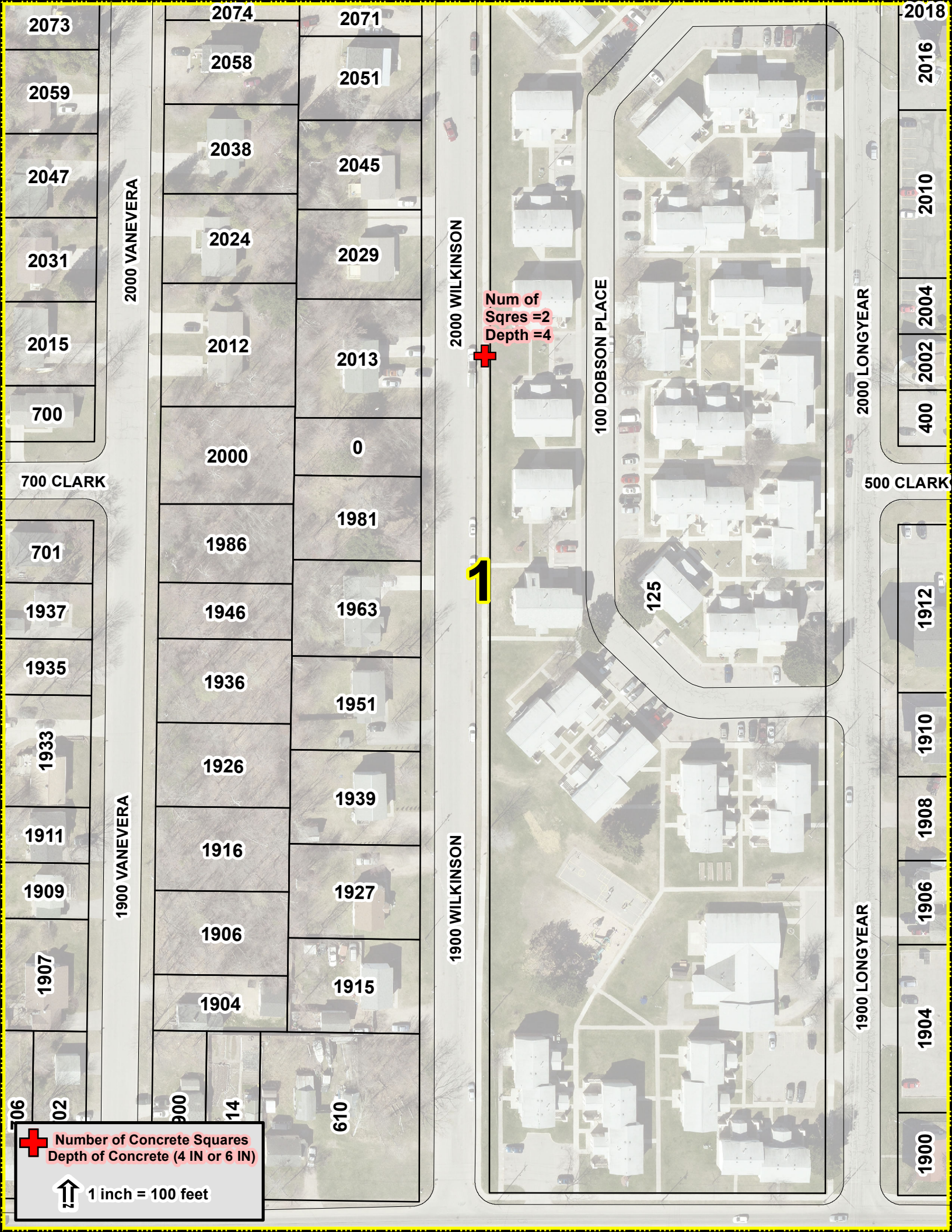
 Sidewalk Removal Locations

 2023_Sidewalk_Book_Pages



0 0.05 0.1 0.2 0.3 0.4 0.5 Miles





2073

2059

2047

2031

2015

700

700 CLARK

701

1937

1935

1933

1911

1909

1907

1900

2000 VANEVERA

1900 VANEVERA

2074

2058

2038

2024

2012

2000

1986

1946

1936

1926

1916

1906

1904

200

14

2071

2051

2045

2029

2013

0

1981

1963

1951

1939

1927

1915

610

2000 WILKINSON

1900 WILKINSON

1

Num of
Sqres =2
Depth =4

100 DOBSON PLACE

125

2000 LONGYEAR

1900 LONGYEAR

500 CLARK

2018

2016

2010

2004

2002

2000

1912

1910

1908

1906


1904


1900



Num of Sqres =3
Depth =4

2

 Number of Concrete Squares
Depth of Concrete (4 IN or 6 IN)

 1 inch = 100 feet

2000 PRESQUE ISLE

1900 PRESQUE ISLE

1800 PRESQUE ISLE

2001

2040

1950

2001

0

100

1907

1903

1901

0061

242

300 WRIGHT

200 WRIGHT

100 WRIGHT

1834

315

311

1829

1827

1821

1840

241

1503

103

1800 FITCH

1020



1213

1209

1207

1100

1200 LINCOLN

1005

1001

1218

1207

1210

1205

1204

1002

1000

1200 NORWAY

925

1206

1204

996

990

921

988

Num of
Sqres =6
Depth =4



1100 W COLLEGE

1000 W COLLEGE

900 W COLLEGE

1201

1113

1110

1111

995

991

985

3

1100 LINCOLN

1100 NORWAY

1109

1109

1108

1107

1108

1106

1105

1102

1105

1104

1101

1100

1103

1101

994

910

908

1100 W MAGNETIC

1000 W MAGNETIC

900 W MAGNETIC

1029

1030

1001

1026

1025

1000 NORWAY

913

911

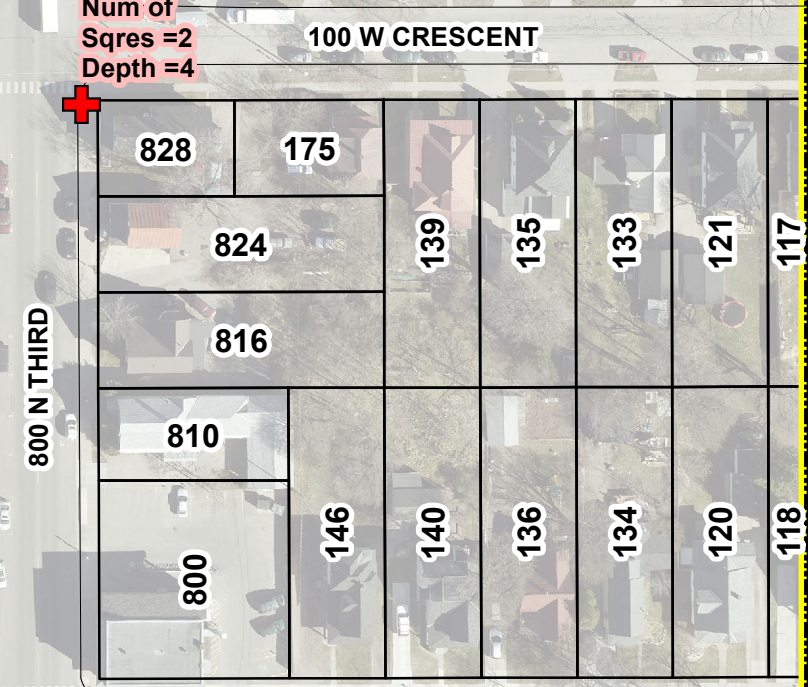
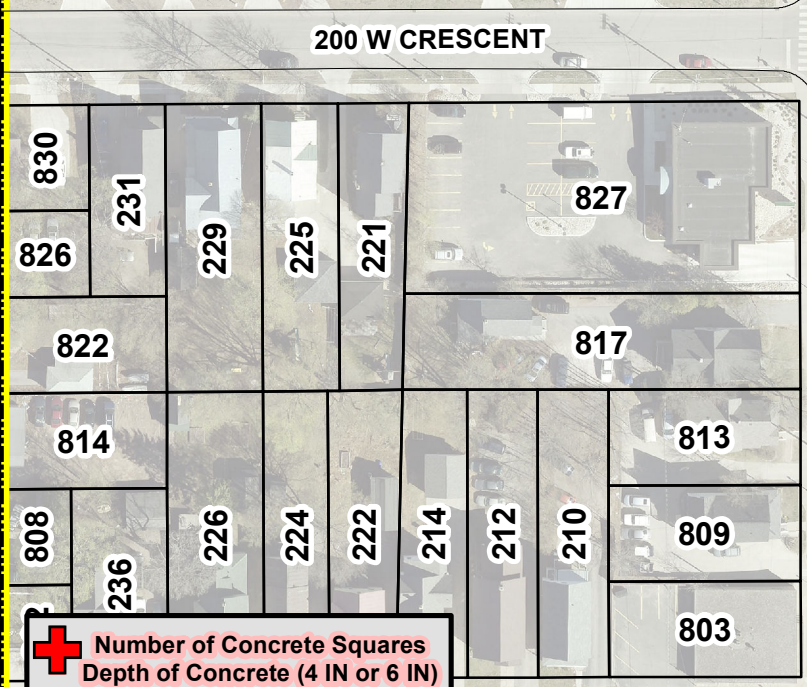
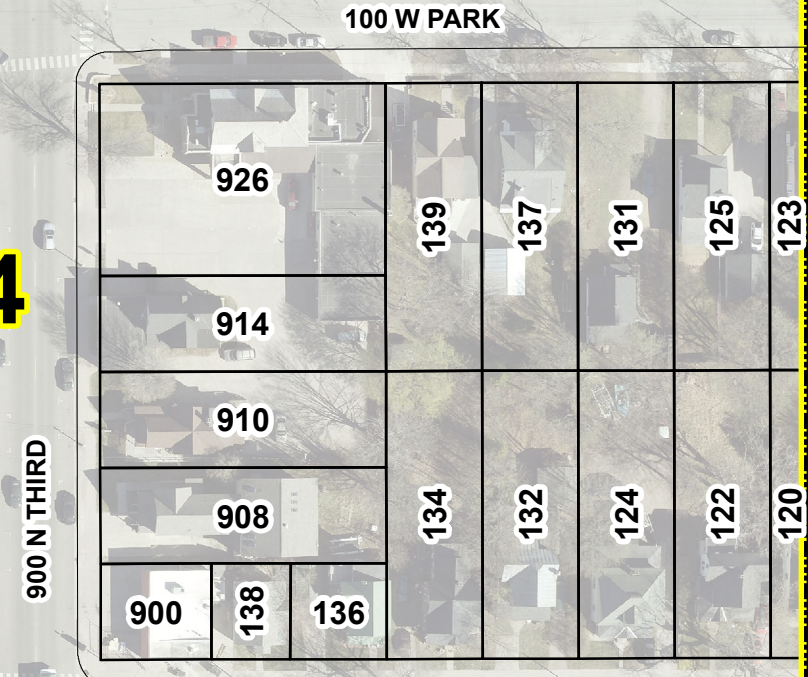
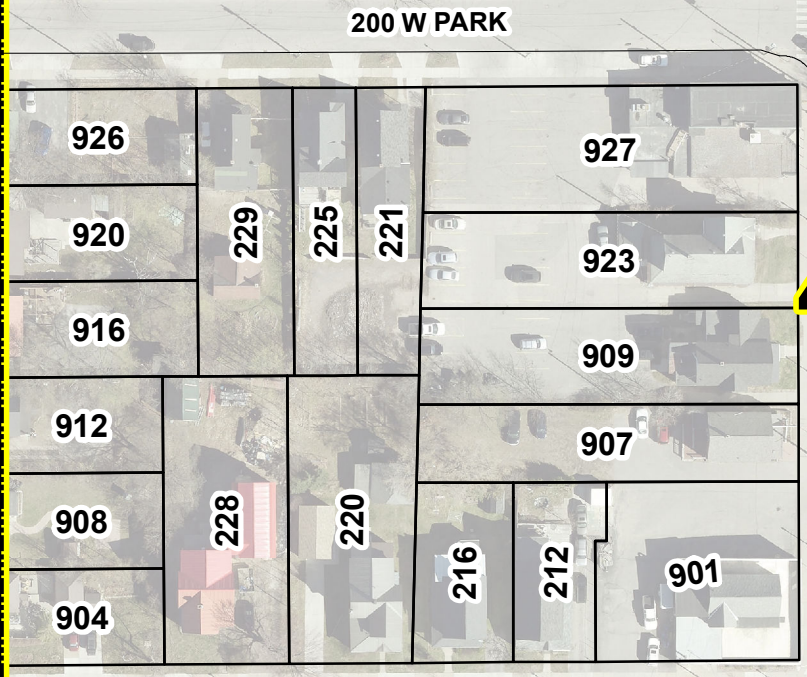
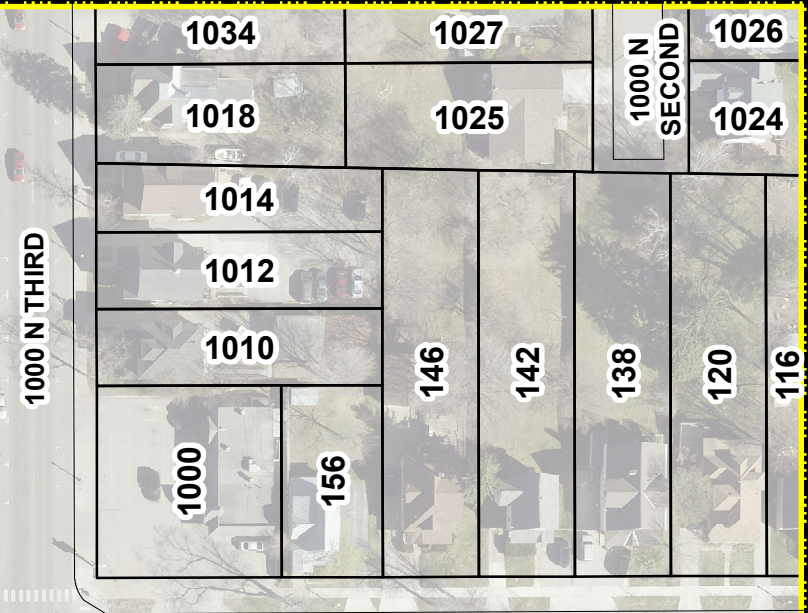
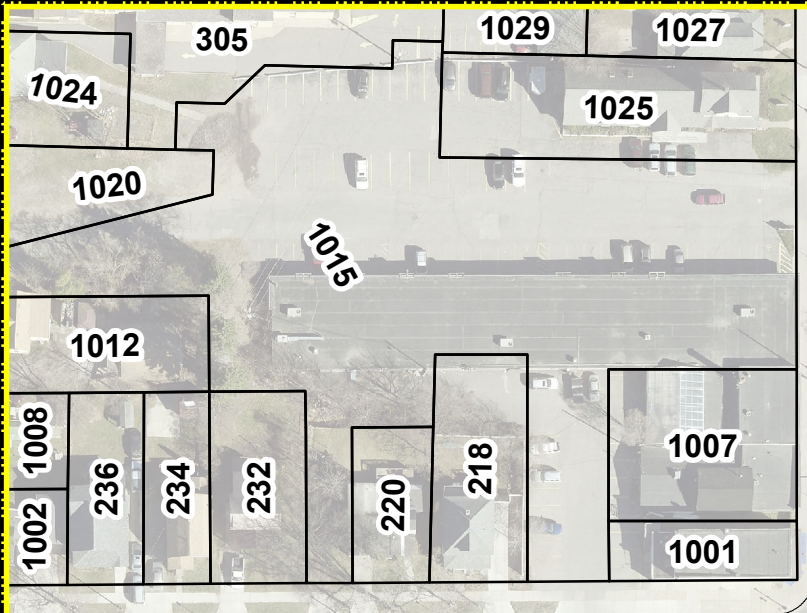
909

1000

Number of Concrete Squares
Depth of Concrete (4 IN or 6 IN)

1 inch = 100 feet

455



Num of
Sqres =2
Depth =4

+ Number of Concrete Squares
Depth of Concrete (4 IN or 6 IN)

1 inch = 100 feet

4

+

SPECT

700 N THIRD

200 W PARK

100 W PARK

200 W CRESCENT

100 W CRESCENT

100 W PROSPECT

700 N SEVENTH

600 N SEVENTH

400 N SEVENTH

Num of Sqres =3
Depth =4



500 HARRISON

400 HARRISON

300 HARRISON



Num of Sqres =6
Depth =4



500 W HEWITT

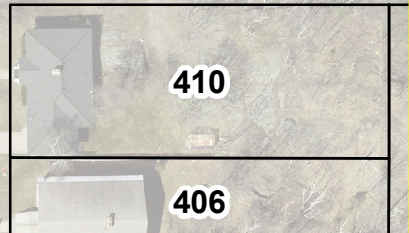
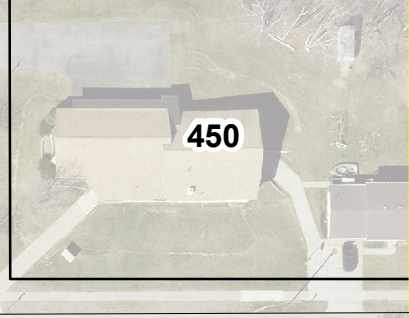
400 W HEWITT



Num of Sqres =3
Depth =4



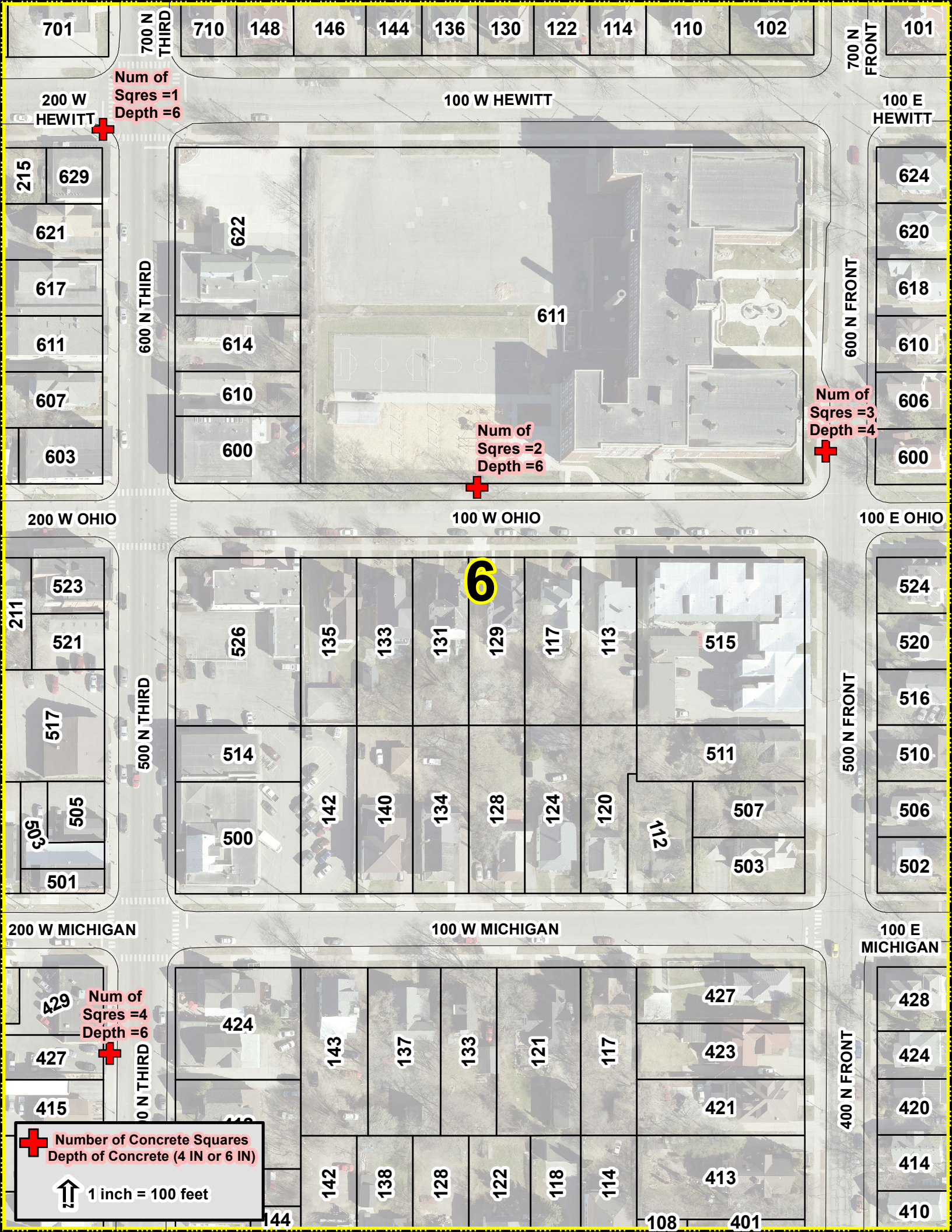
400 W OHIO



Number of Concrete Squares
Depth of Concrete (4 IN or 6 IN)

1 inch = 100 feet

455



Num of Sqres =1
Depth =6

Num of Sqres =2
Depth =6

Num of Sqres =3
Depth =4

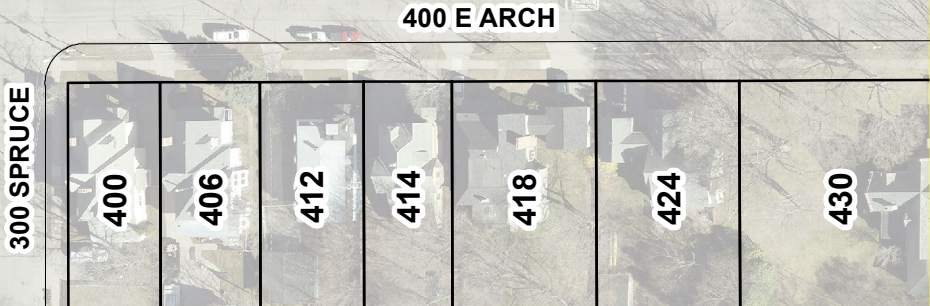
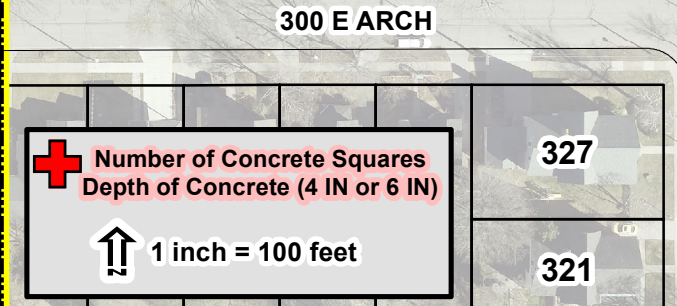
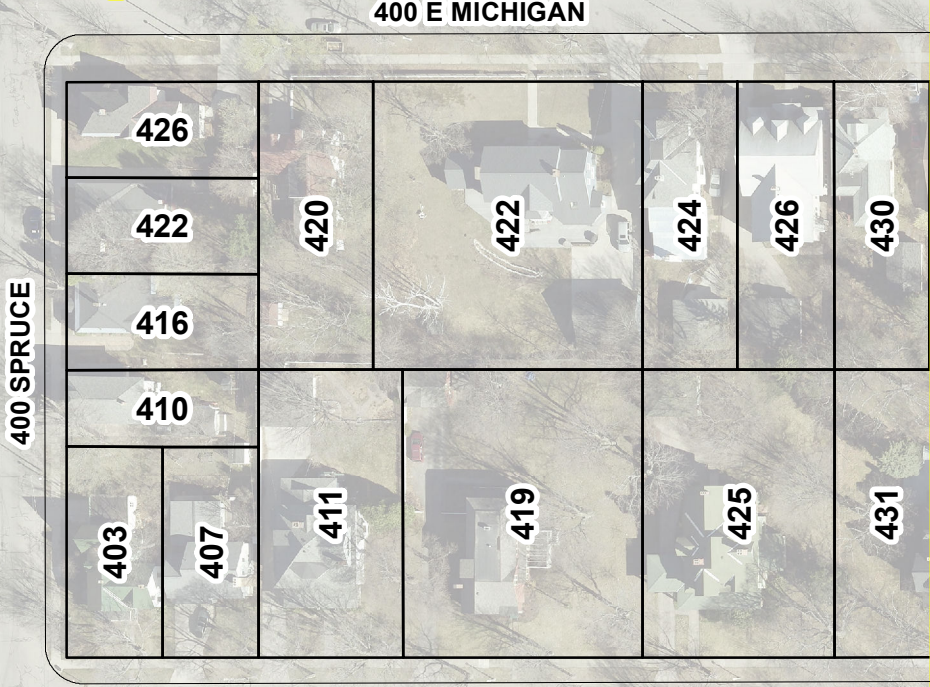
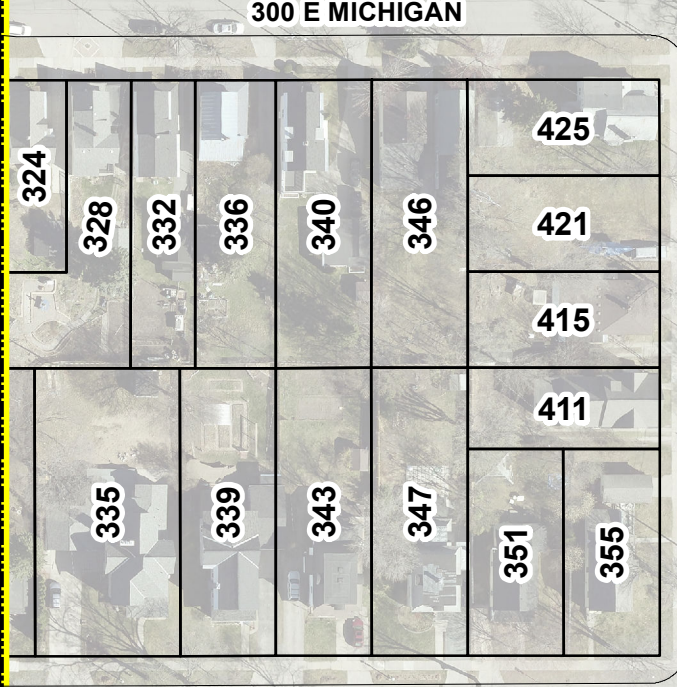
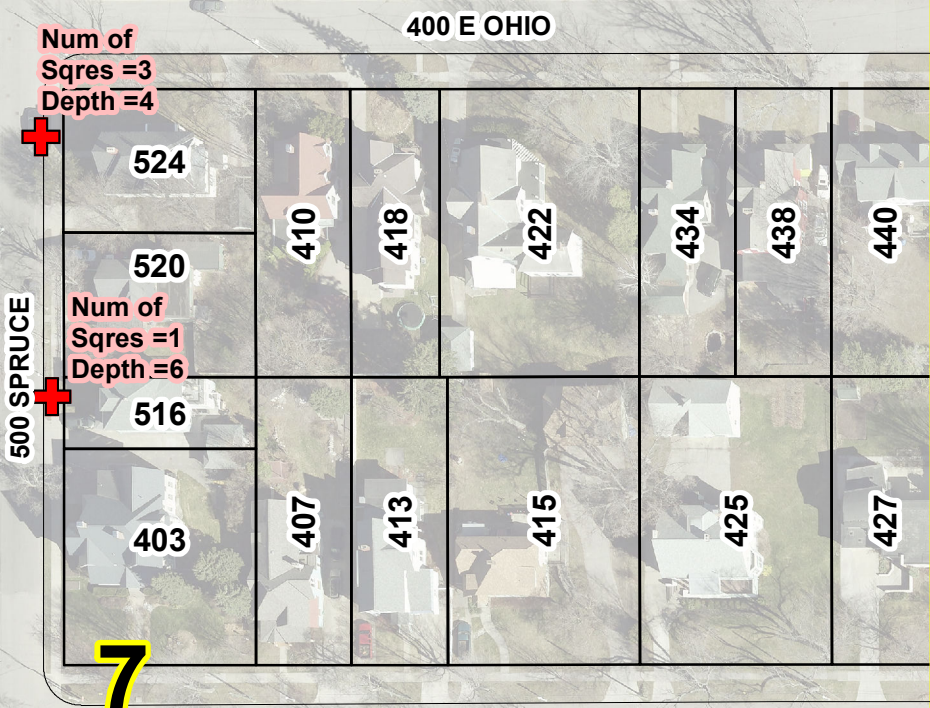
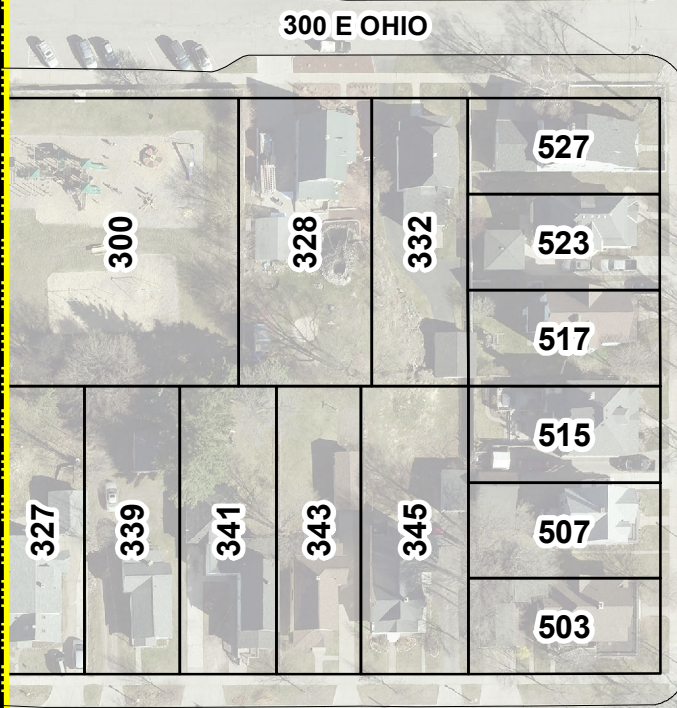
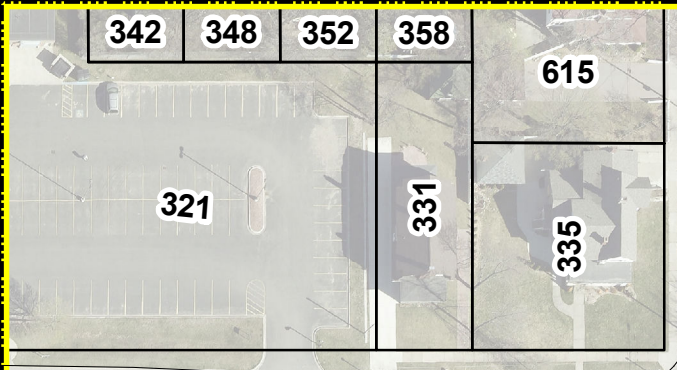
6

Num of Sqres =4
Depth =6

+ Number of Concrete Squares
Depth of Concrete (4 IN or 6 IN)

↑ 1 inch = 100 feet

701	710	148	146	144	136	130	122	114	110	102	101
215	629	622	611	614	610	600	611	618	610	606	600
621	617	611	607	603	523	521	517	509	505	501	524
526	135	133	131	129	117	113	515	514	511	507	516
500	142	140	134	128	124	120	512	503	506	502	510
429	424	143	137	133	121	117	427	423	421	413	428
427	415	142	138	128	122	118	114	413	414	410	424
415	144	142	138	128	122	118	114	108	401	410	420



+ Number of Concrete Squares
 Depth of Concrete (4 IN or 6 IN)


↑ 1 inch = 100 feet




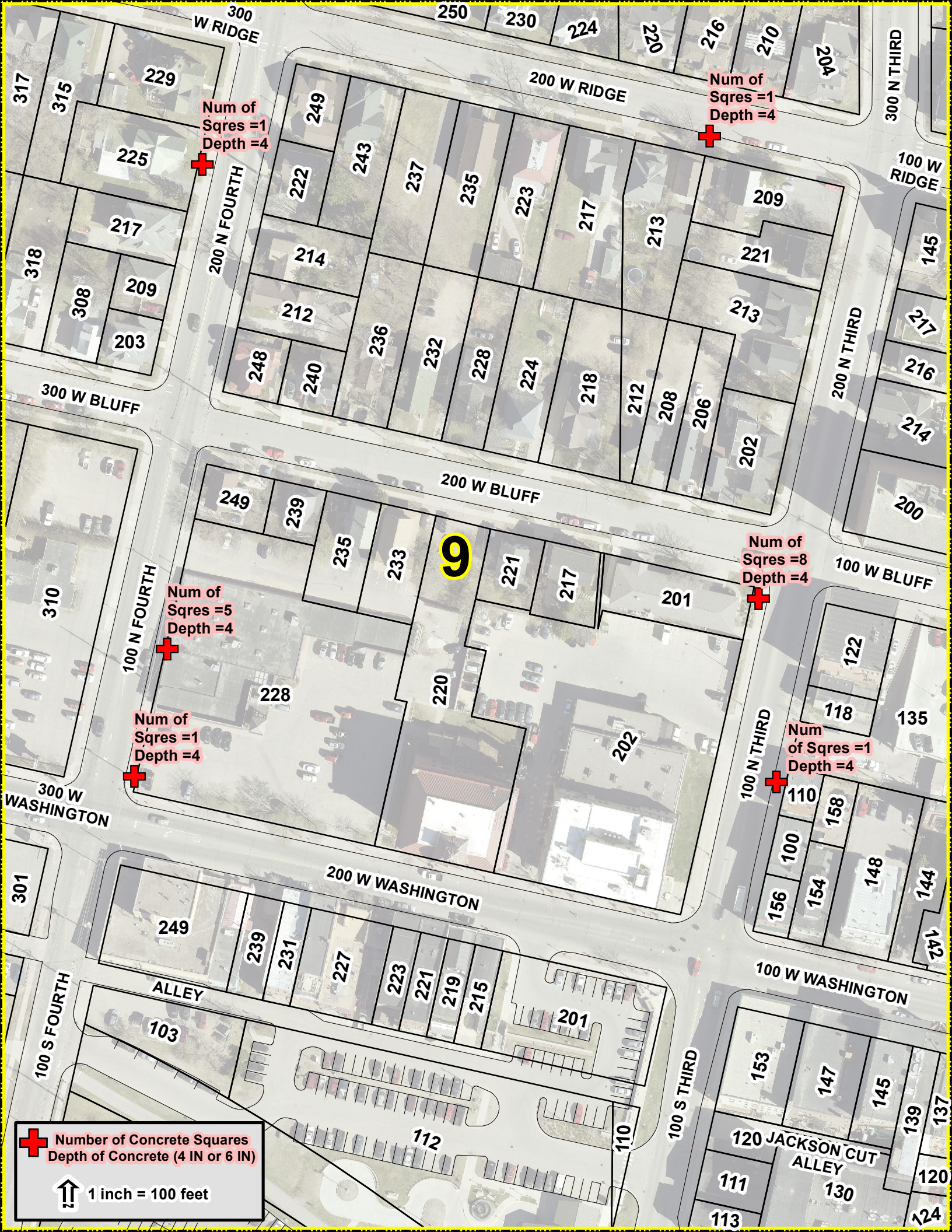
Num of
Sqres = 1
Depth = 4



8

 Number of Concrete Squares
Depth of Concrete (4 IN or 6 IN)

 1 inch = 100 feet



Num of Sqres = 1
Depth = 4

Num of Sqres = 1
Depth = 4

Num of Sqres = 5
Depth = 4

Num of Sqres = 8
Depth = 4

Num of Sqres = 1
Depth = 4

Num of Sqres = 1
Depth = 4

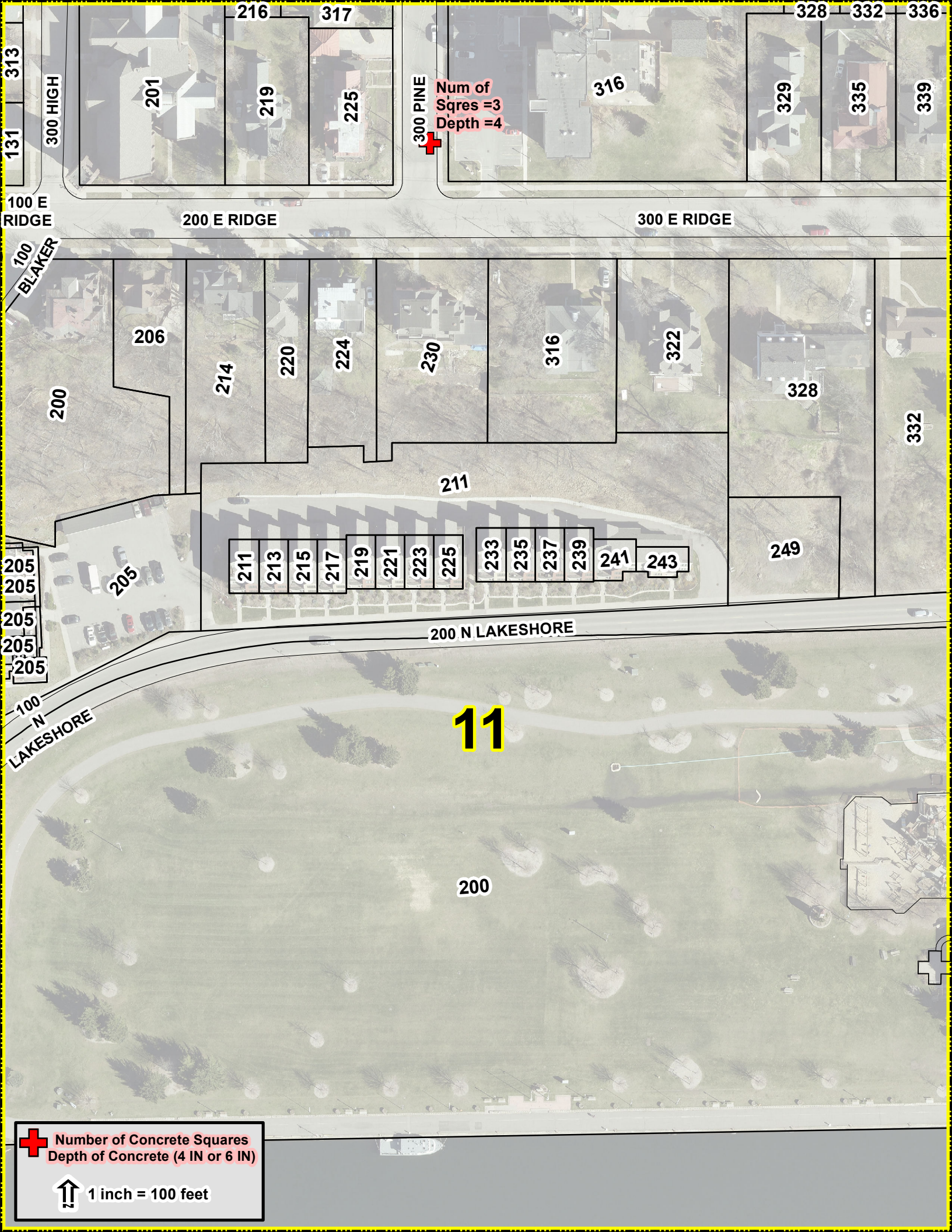
+ Number of Concrete Squares
Depth of Concrete (4 IN or 6 IN)

↑ 1 inch = 100 feet

9

300 W RIDGE
200 W RIDGE
300 W BLUFF
200 W BLUFF
100 W BLUFF
300 W WASHINGTON
200 W WASHINGTON
100 W WASHINGTON
300 N THIRD
200 N THIRD
100 N THIRD
300 S FOURTH
200 S FOURTH
100 S THIRD

317 315 229 225 217 209 308 203 318 248 240 249 243 237 235 223 217 213 209 221 213 202 212 208 206 218 212 208 206 214 212 236 232 228 224 218 212 208 206 249 239 235 233 221 217 201 228 220 202 122 118 135 110 100 158 148 144 156 154 148 144 249 239 231 227 223 221 219 215 201 103 112 110 153 147 145 139 137 120 JACKSON CUT ALLEY 130 111 120 113 124



+ 300 PINE
 Num of Sqres = 3
 Depth = 4

11

+ Number of Concrete Squares
 Depth of Concrete (4 IN or 6 IN)

↑ 1 inch = 100 feet

131 313 300 HIGH 201 216 219 317 225 316 328 332 336 329 335 339
 100 E RIDGE 200 E RIDGE 300 E RIDGE
 100 BLAKER 206 214 220 224 230 316 322 328 332 200
 205 205 205 205 205 205 205 211 211 213 215 217 219 221 223 225 233 235 237 239 241 243 249
 100 N LAKESHORE 200 N LAKESHORE 200
 200

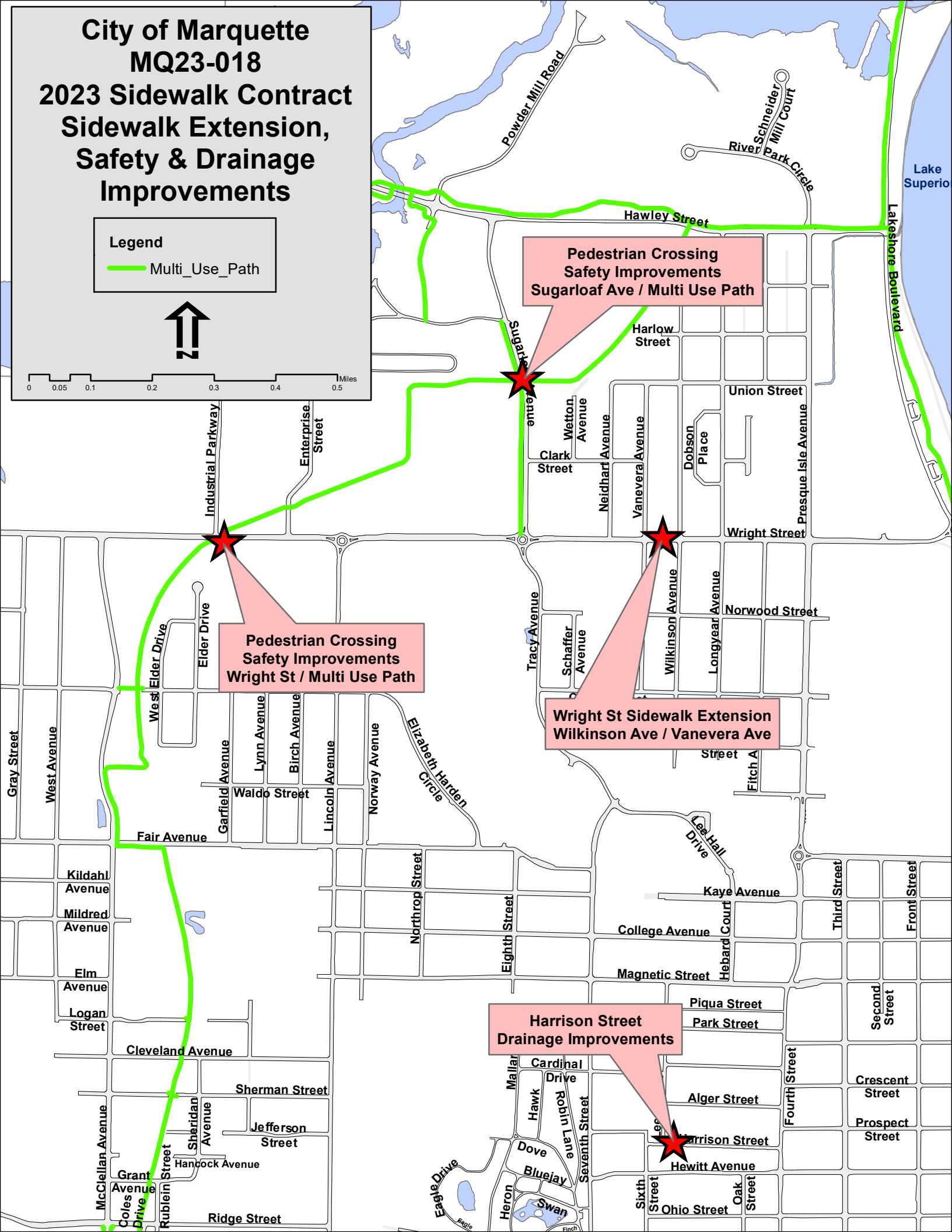
City of Marquette MQ23-018 2023 Sidewalk Contract Sidewalk Extension, Safety & Drainage Improvements

Legend

Multi_Use_Path



0 0.05 0.1 0.2 0.3 0.4 0.5 Miles

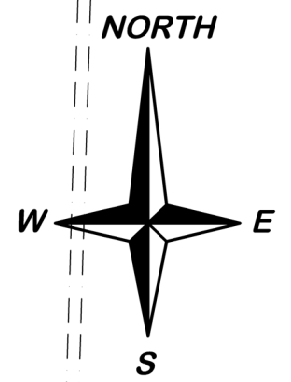


**Pedestrian Crossing
Safety Improvements
Sugarloaf Ave / Multi Use Path**

**Pedestrian Crossing
Safety Improvements
Wright St / Multi Use Path**

**Wright St Sidewalk Extension
Wilkinson Ave / Vanevera Ave**

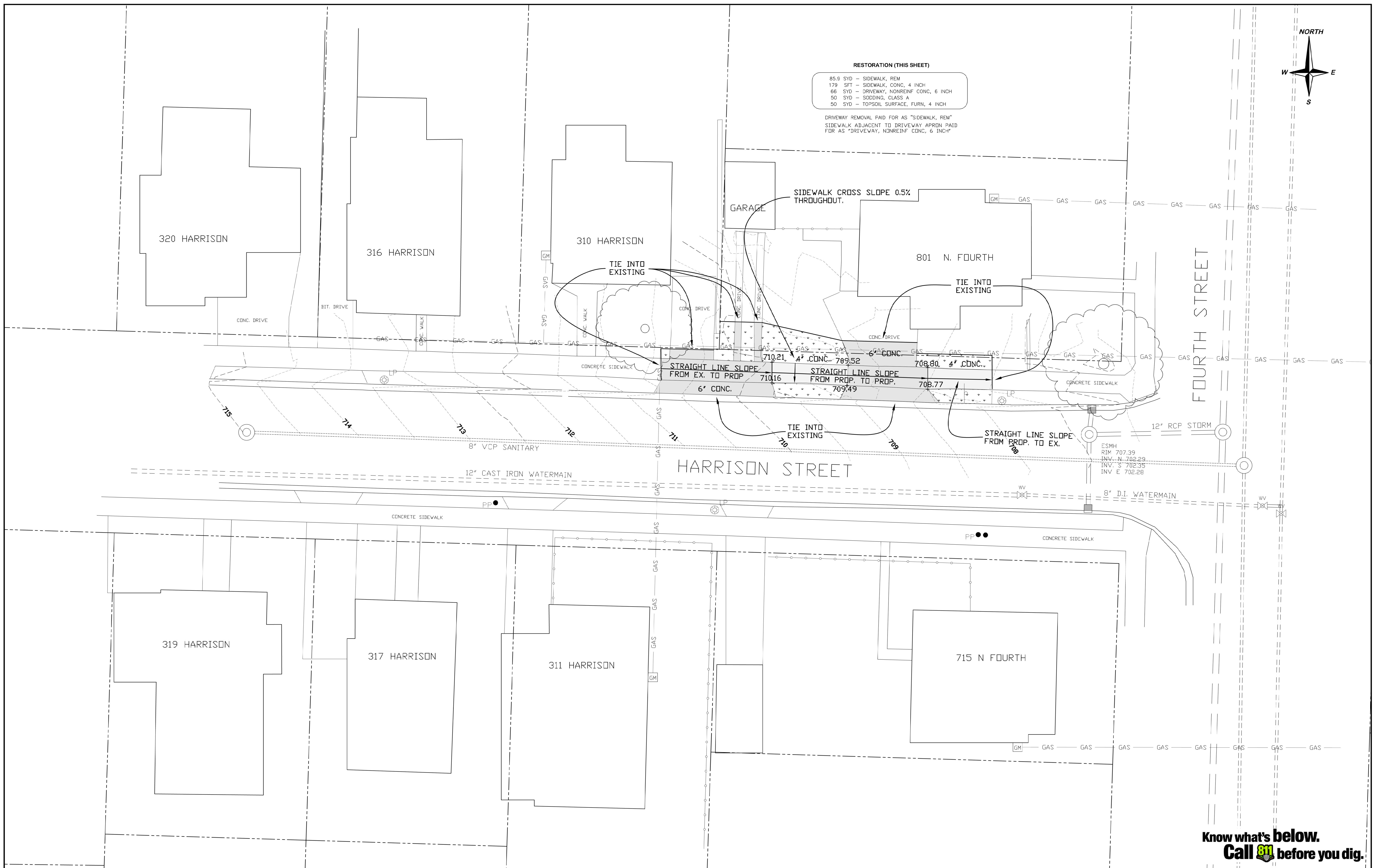
**Harrison Street
Drainage Improvements**



RESTORATION (THIS SHEET)

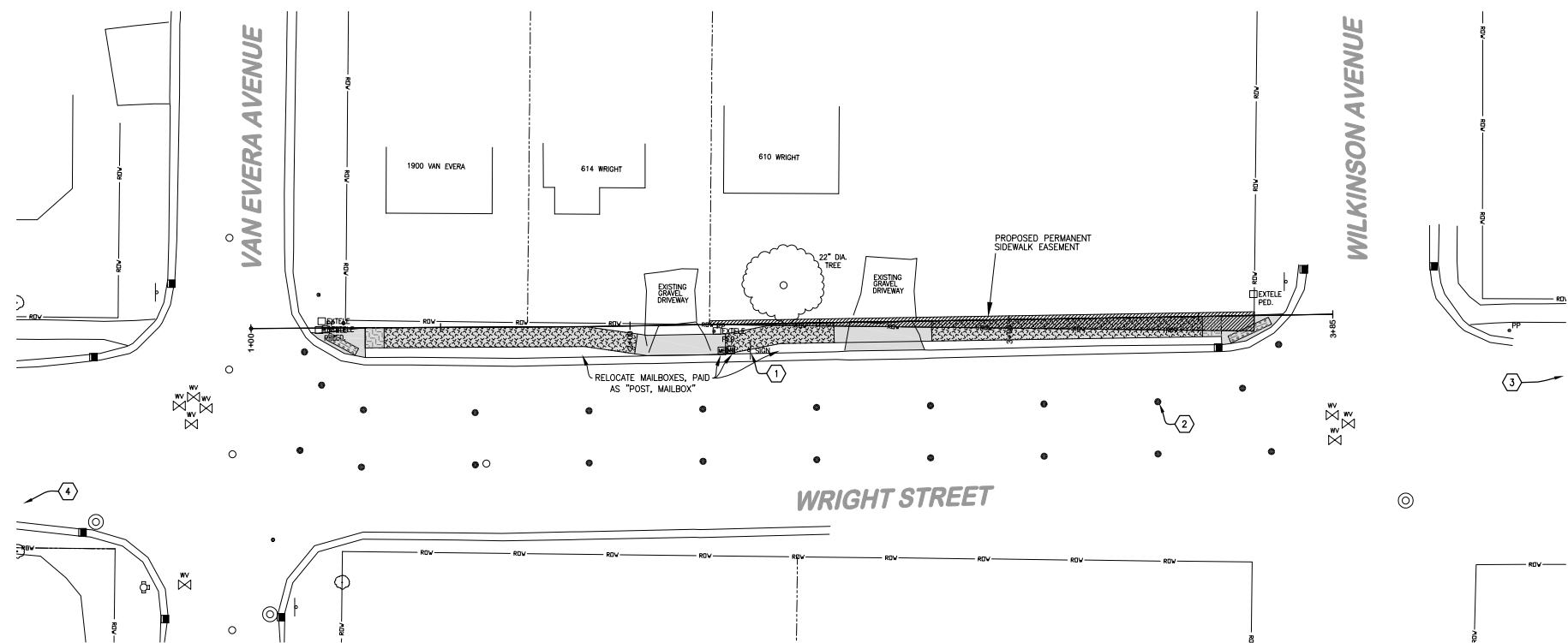
- 85.9 SYD - SIDEWALK, REM
- 179 SFT - SIDEWALK, CONC, 4 INCH
- 66 SYD - DRIVEWAY, NONREINF CONC, 6 INCH
- 50 SYD - SOCCINGS, CLASS A
- 50 SYD - TOPSOIL SURFACE, FURN, 4 INCH

DRIVEWAY REMOVAL PAID FOR AS "SIDEWALK, REM"
 SIDEWALK ADJACENT TO DRIVEWAY APRON PAID FOR AS "DRIVEWAY, NONREINF CONC, 6 INCH"



**Know what's below.
 Call 811 before you dig.**

PLAN



NOTES
 POWER POLES, UNDERGROUND ELECTRIC, CABLE, AND TELEPHONE CONFLICTING WITH PROPOSED WORK TO BE MOVED BY THE CORRESPONDING UTILITY COMPANY. CONTRACTOR SHALL COORDINATE THEIR WORK WITH THOSE UTILITIES.
 MINIMIZE DISTURBANCE TO EXISTING TREES AND PERENNIAL FLOWER GARDENS. ALL AREAS OF DISTURBANCE OUTSIDE OF INFLUENCE AREA OF WORK SHALL BE RESTORED WITH TOPSOIL, SEED, AND MULCH PAID BY THE CONTRACTOR.



REMOVAL PAY ITEMS (THIS SHEET)

- 15 CYD - EXCAVATION, EARTH

GENERAL WORK ITEMS

- 1 LS - MOBILIZATION, MAX.
- 1 LS - PROJECT CLEANUP
- 1 LS - SOIL EROSION AND SEDIMENTATION CONTROL

SIGNING PAY ITEMS (THIS SHEET)

- 1 LS - TRAFFIC CONTROL

RESTORATION (THIS SHEET)

10 CYD - SUBBASE, CIP	200 SYD - TOPSOIL SURFACE, FURN, 4"
890 SFT - SIDEWALK, CONC, 4 INCH	200 SYD - SODDING
270 SFT - SIDEWALK, CONC, 6 INCH	35 SYD - AGGREGATE BASE, 6"
6 SYD - DRIVEWAY, NONREINF CONC, 6 INCH	2 EA - POST, MAILBOX
206 SFT - CURB RAMP, CONC, 6 INCH	10 CYD - EMBANKMENT, CIP
20 FT - DETECTABLE WARNING SURFACE	

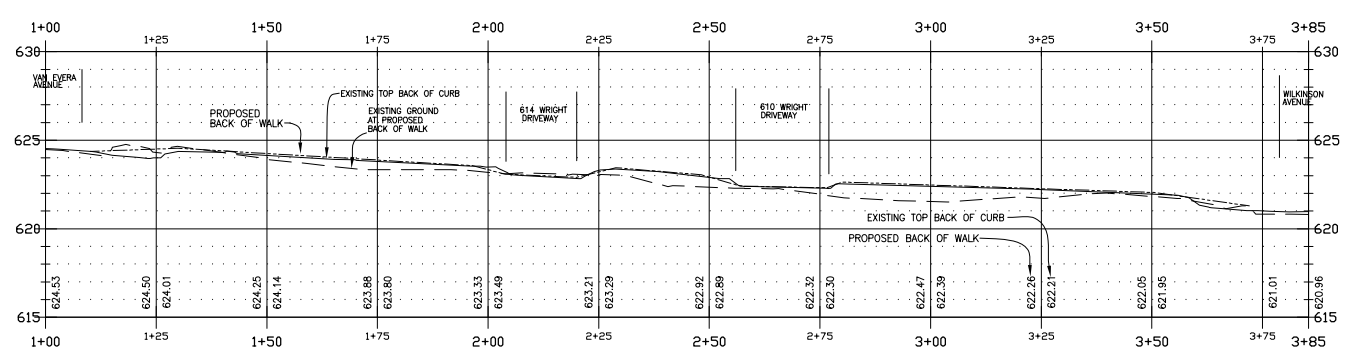
KEYNOTES

- ① SIGN WILL BE RELOCATED BY CITY OF MARQUETTE.
- ② USE APPROXIMATELY 25 TRAFFIC CONES, AT 30 FOOT SPACING PER MMUTCD, TO CHANNEL WB TRAFFIC INTO CENTER TURN LANE TO MAINTAIN TWO LANE, TWO WAY TRAFFIC WHILE WORK IS GOING ON. THIS WILL BE INCLUDED IN THE PAY ITEM "TRAFFIC CONTROL, LS".
- ③ PLACE "ROAD WORK AHEAD" AND "LANE SHIFT" SIGNS APPROXIMATELY MID BLOCK EAST AND WEST OF SIDEWALK WORK. THIS WILL BE INCLUDED IN THE PAY ITEM "TRAFFIC CONTROL, LS".

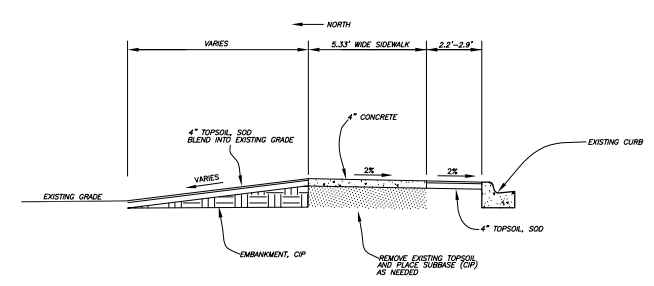
LEGEND

MHO	EXISTING SANITARY/STORM SEWER MANHOLE	[Pattern]	PROPOSED 6" SIDEWALK
*PP	EXISTING POWER POLE	[Pattern]	PROPOSED 4" SIDEWALK
[Symbol]	EXISTING CATCH BASIN	[Pattern]	PROPOSED ADA RAMP (6")
[Symbol]	EXISTING TRAFFIC SIGN	[Pattern]	PROPOSED DETECTABLE SURFACE
[Symbol]	EXISTING WATER VALVE		
[Symbol]	EXISTING FIRE HYDRANT		

PROFILE



SIDEWALK TYPICAL CROSS-SECTION



Know what's below.
Call 811 before you dig.

CITY ENGINEER'S OFFICE
MARQUETTE, MICHIGAN
 1100 WRIGHT STREET, MARQUETTE, MI 49855
 PHONE (906)228-0440

REVISIONS:

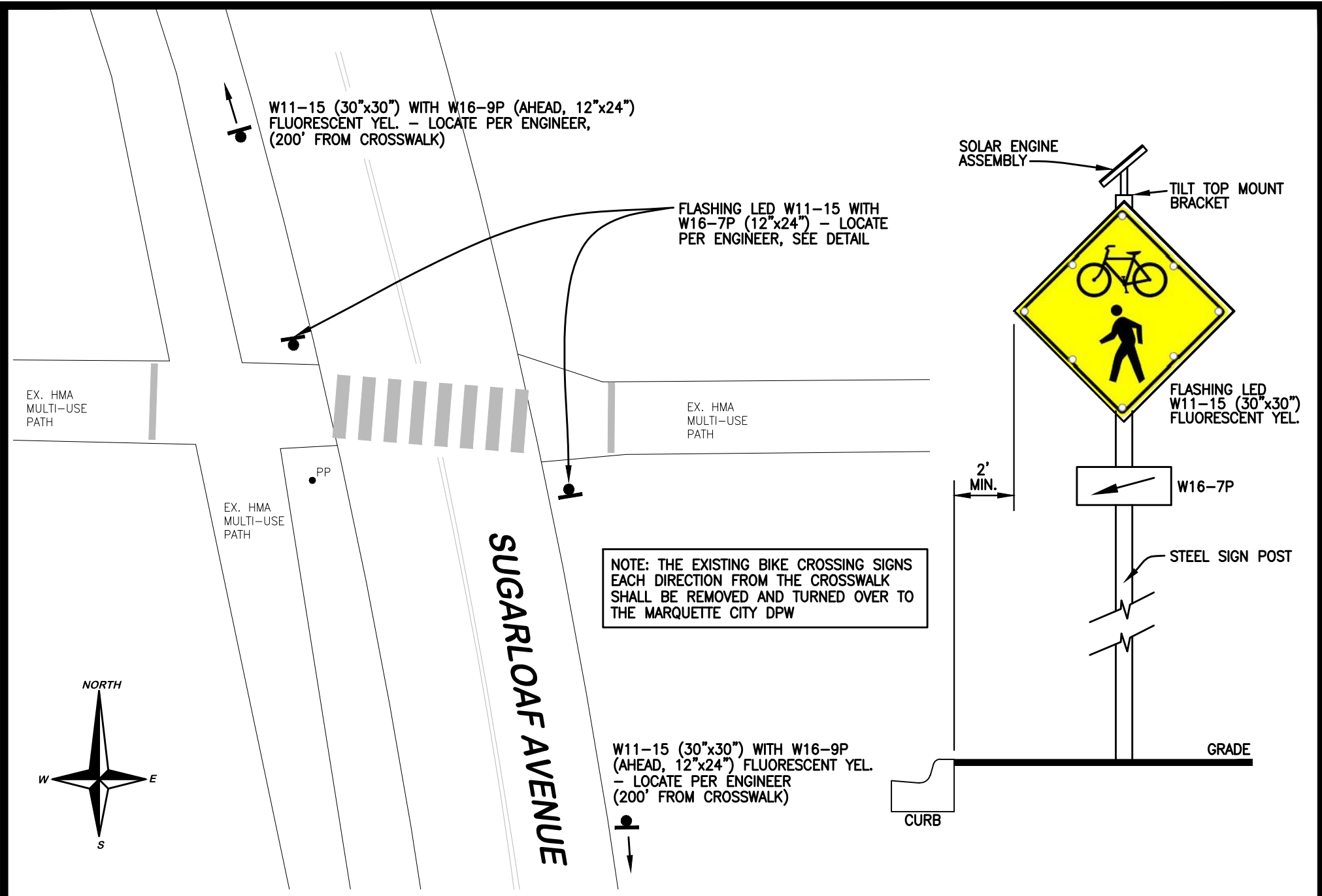
PRELIMINARY	12-13-22

DESIGN BY: MIKAEL KILPELA P.E., CITY ENGINEER
DRAWN BY: JK
DATE: 12-13-22
FILE NAME: MQ23-018 WRIGHT ST BASE.dwg

HOR. SCALE: 1" = 20'
VERT. SCALE: N.A.

WRIGHT STREET SIDEWALK
VAN EVERA AVENUE TO WILKINSON AVENUE
PLAN & PROFILE

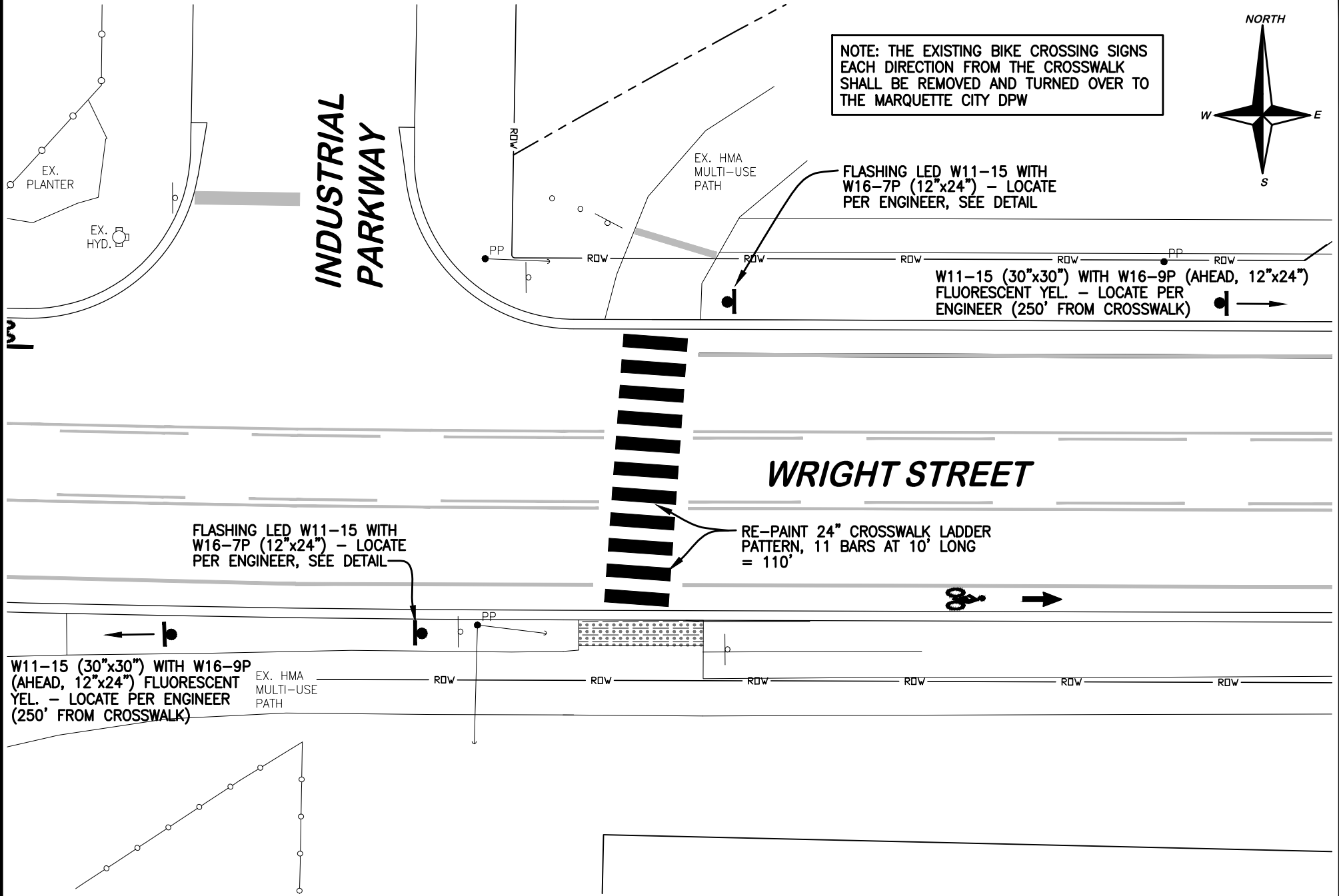
PROJECT MQ23-018
SHEET 3 OF 3



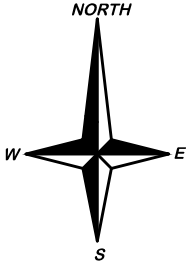
CITY ENGINEER'S OFFICE
MARQUETTE, MICHIGAN
1100 WRIGHT STREET, MARQUETTE, MI 49855
PHONE (906)228-0440

SAFETY SIGNAGE UPGRADES
SUGARLOAF AVENUE
BETWEEN CLARK STREET AND HAWLEY STREET
SCALE: 1"=20'

APPROVED BY: M. KILPELA
DRAWN BY: D. SALMON
DATE: FEBRUARY 16, 2023
PROJECT FOLDER: J:\MQ23-018
FILE NAME: 23018 SUGARLOAF CROSSING.dwg



NOTE: THE EXISTING BIKE CROSSING SIGNS EACH DIRECTION FROM THE CROSSWALK SHALL BE REMOVED AND TURNED OVER TO THE MARQUETTE CITY DPW



INDUSTRIAL PARKWAY

WRIGHT STREET

FLASHING LED W11-15 WITH W16-7P (12"x24") - LOCATE PER ENGINEER, SEE DETAIL

W11-15 (30"x30") WITH W16-9P (AHEAD, 12"x24") FLUORESCENT YEL. - LOCATE PER ENGINEER (250' FROM CROSSWALK)

FLASHING LED W11-15 WITH W16-7P (12"x24") - LOCATE PER ENGINEER, SEE DETAIL

RE-PAINT 24" CROSSWALK LADDER PATTERN, 11 BARS AT 10' LONG = 110'

W11-15 (30"x30") WITH W16-9P (AHEAD, 12"x24") FLUORESCENT YEL. - LOCATE PER ENGINEER (250' FROM CROSSWALK)

EX. HMA MULTI-USE PATH



**CITY ENGINEER'S OFFICE
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1100 WRIGHT STREET, MARQUETTE, MI 49855
PHONE (906)228-0440

**SAFETY SIGNAGE UPGRADES
WRIGHT STREET AND INDUSTRIAL PARKWAY**
SCALE: 1"=20'

APPROVED BY: M. KILPELA
DRAWN BY: D. SALMON
DATE: FEBRUARY 16, 2023
PROJECT FOLDER: J:\MQ23-018
FILE NAME: 23018 WRIGHT CROSSING.dwg