

**ADDENDUM No. 1  
RFP No. 24-04  
2024 ANNUAL RESURFACING PROGRAM**

**Due Date: February 22, 2024, by 11:00 a.m. (local time)**

The information contained herein shall take precedence over the original documents and all previous addenda (if any) and is appended thereto. **This Addendum includes one-hundred and eight (108) pages.**

**The Proposer is to acknowledge receipt of this Addendum No. 1, including all attachments in its Proposal by so indicating in the proposal that the addendum has been received. Proposals submitted without acknowledgement of receipt of this addendum may be considered non-conforming.**

**The following forms provided within the RFP Document should be included in submitted proposal:**

- **Attachment D - Prevailing Wage Declaration of Compliance**
- **Attachment E - Living Wage Declaration of Compliance**
- **Attachment G - Vendor Conflict of Interest Disclosure Form**
- **Attachment H - Non-Discrimination Declaration of Compliance**

**Proposals that fail to provide these completed forms listed above upon proposal opening may be rejected as non-responsive and may not be considered for award.**

**I. CORRECTIONS/ADDITIONS/DELETIONS**

Changes to the RFP documents which are outlined below are referenced to a page or Section in which they appear conspicuously. Changes highlighted in **yellow** reflect the changes made in this addendum. Offerors are to take note in its review of the documents and include these changes as they may affect work or details in other areas not specifically referenced here.

*Comment: To meet the proposal submission request of “one (1) digital copy of E. Schedule of Pricing/Cost in Excel format” interested contractors can email Andrea Wright (AWright@a2gov.org) and request a .xlsx file to complete the digital submittal. The deadline to request this information is 12:00 p.m. on February 20, 2024.*

<b>Section/Page(s)</b>	<b>Change</b>
Schedule of Pricing/Cost	Minor quantity revisions and DS added to item number, highlighted, and shown in bold. DS added to item numbers for Conc, Sidewalk, 4 inch and Conc, Sidewalk or Ramp, 6in. Quantity changes to ten (10) items.
Detailed Specification	Replace all Detailed Specifications with Addendum Special Detailed Package. Updates made to the following Detail Specifications: Removed Original Concrete Driveway Approach Detailed Special and Replace with Detailed Special Concrete Driveway Approach and Concrete Sidewalk. All other Detailed Specials have not changed.

Plans	Replace all plan sheets. Updates: Added construction sequencing to pages 7-30. Added HMA Application and Seeding table to notes on page 2. Updated quantities on Page Ave sheet to reflect the quantity changes in the schedule of price/cost.
Wage Decision	Wage Requirements: Highway General Decision Number: MI20240001 01/05/2024 is applicable for this contract and attached to addendum.

## II. QUESTIONS AND ANSWERS

The following Questions have been received by the City in the pre-bid meeting and separately. Responses are being provided in accordance with the terms of the RFP. Respondents are directed to take note in their review of the documents of the following questions and City responses as they affect work or details in other areas not specifically referenced here.

Question 1: What is the engineer's estimate?

Answer 1: 8 million

Question 2: How thick is each lift of asphalt and what asphalt cement grade should be used for each mix?

Answer 2: 2 inch thick, PG58-28 for the 5EL Mix and PG64-22 for the 5EML. This will be documented on the updated plan sheets.

Question 3: How deep is the pipe on Andrea Court going to be placed?

Answer 3: About 4.5 feet. A plan will be provided to the contractor prior to work starting.

Question 4: What is the core structure adjusting sizes?

Answer 4: 48 inches for basic manhole structure and 24 inches monument box, gas and water box.

Question 5: What product is preferred for the inlet filter?

Answer 5: Inlet Pro Sediment Bag or engineer approved equivalent.

Question 6: What is the expectation of sediment bag cleaning?

Answer 6: Due to the proximity of a water source the expectation will be to clean them out at a higher frequency throughout the duration of the project.

Question 7: Are there new sidewalks being installed on the project?

Answer 7: Yes, there are 3 locations where new sidewalks will be installed; 580 Burwood Avenue, 2996 Sunnywood Drive (corner lot) and Page Avenue from Harpst Street to Esch Avenue (east side only). The sidewalk installations will be scheduled in combination with the resurfacing on those streets. Page Avenue will have substantial drive approaches & curb removal and replacement needed to construct the new sidewalk.

Question 8: Where are the tree removal items being used?

Answer 8: The tree removal item is being used on Page Avenue for the new sidewalk installation in conjunction with the scheduled resurfacing.

Question 9: Where can the Page Ave new sidewalk information be found?

Answer 9: <https://www.a2gov.org/departments/engineering/Pages/Page-Ave,-Esch-Ave.-to-Harpst-St.,-New-Sidewalk-.aspx>.

Question 10: When will the plan for the Page Avenue new sidewalk installation be provided?

Answer 10: Estimated quantities are recorded in the bid tab and the plan will be provided to the contractor upon award of the contract in April.

Question 11: How is grading paid for the new installation of sidewalk?

Answer 11: Paid for under sidewalk grading item in contract. This only includes new sidewalk subbase material.

Question 12: Will there be HMA path work as part of this contract?

Answer 12: Yes, however the HMA path is being removed and replaced with 5ft wide concrete.

Offerors are responsible for any conclusions that they may draw from the information contained in the Addendum.

**E. Schedule of Pricing/Cost – 20 Points**

Company:

Project: 2024 Annual Resurfacing Program

File # 2024-004 RFP 24-04

<u>Item No.</u>	<u>Description</u>	<u>Unit</u>	<u>Estimated Quantity</u>	<u>Unit Price</u>	<u>Total Price</u>
01000.00	General Conditions, Max \$ 300,000.00	LS	1	\$ _____	\$ _____
01000.01DS	Vacuum Type Cleaning, Max \$ 25,000.00	LS	1	\$ _____	\$ _____
01001.00	Project Supervision, Max \$ 50,000.00	LS	1	\$ _____	\$ _____
01021.00	Erosion Control, Inlet Protection, Fabric Drop	Ea	265	\$ _____	\$ _____
01022.00	Erosion Control, Silt Fence	Ft	75	\$ _____	\$ _____
01040.00	Minor Traffic Control, Max \$ 140,000.00	LS	1	\$ _____	\$ _____
01041.00	Traffic Regulator Control, Max \$ 25,000.00	LS	1	\$ _____	\$ _____
01050.00	Sign, Type B, Temp, Prismatic, Furn & Oper	Sft	1,099	\$ _____	\$ _____
01051.00	Sign, Type B, Temp, Prismatic, Special, Furn & Oper	Sft	345	\$ _____	\$ _____
01052.00	Temporary "No Parking" Sign	Ea	769	\$ _____	\$ _____
01062.00	Lighted Arrow, Type C, Furn & Oper	Ea	5	\$ _____	\$ _____
01070.00	Sign, Portable, Changeable Message, Furn & Oper	Ea	4	\$ _____	\$ _____
01080.00	Plastic Drum, High Intensity, Lighted, Furn & Oper	Ea	229	\$ _____	\$ _____
01081.00	Channelizer Cone, High Intensity, 42 In., Furn & Oper	Ea	1,260	\$ _____	\$ _____
01091.00	Barricade, Type III, High Intensity, Lighted, Furn & Oper	Ea	91	\$ _____	\$ _____
01100.00	Pedestrian Type II Barricade, Temp, Furn & Oper	Ea	76	\$ _____	\$ _____
01101.00	Pedestrian Channelizer Device, Furn & Oper	Ea	20	\$ _____	\$ _____
01103.00	Temporary Pedestrian Mat, Furn & Oper	Ft	2,740	\$ _____	\$ _____
<b>02000.01</b>	<b>Tree, Rem, 6 in. - 12 in.</b>	<b>Ea</b>	<b>9</b>	\$ _____	\$ _____
02000.02	Tree, Rem, 13 in.- 36 in.	Ea	4	\$ _____	\$ _____
02000.10DS	Tree Trimming, Allowance	Dlr	1	\$ 15,000	\$ 15,000
02020.00	HMA, Any Thickness, Rem	Syd	23,525	\$ _____	\$ _____
02022.00	HMA Patch, Rem	Syd	270	\$ _____	\$ _____
02023.00	Cold-Milling HMA Surface	Syd	65,000	\$ _____	\$ _____
02023.01DS	Cold Milling, Plunge Cut	Syd	3,300	\$ _____	\$ _____
02023.02DS	HMA Surface, Around Structure Cover, Rem	Ea	100	\$ _____	\$ _____
02023.03DS	Cold Milling for Concrete Curb and Gutter Reveal	Syd	3,490	\$ _____	\$ _____
<b>02030.00</b>	<b>Curb, Gutter, and Curb and Gutter, Any Type, Rem</b>	<b>Ft</b>	<b>14,720</b>	\$ _____	\$ _____
02040.00	Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	Sft	10,010	\$ _____	\$ _____
03001.02DS	Grading Roadway	Syd	53,350	\$ _____	\$ _____
<b>03001.01DS</b>	<b>Grading, Sidewalk, Ramp &amp; Driveway Approach</b>	<b>Sft</b>	<b>28,970</b>	\$ _____	\$ _____
03021.01DS	Undercutting, Type IIA	Cyd	5,935	\$ _____	\$ _____
03021.02DS	Undercutting, Type IIC	Cyd	50	\$ _____	\$ _____
03030.01	Exploratory Excavation, (0-10' Deep ), SD-TD-1	Ea	15	\$ _____	\$ _____

TOTAL THIS PAGE 15

(Also to be entered on Page 17)

\$ \_\_\_\_\_



Company:

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File # 2024-004 RFP 24-04

<u>Item No.</u>	<u>Description</u>	<u>Unit</u>	<u>Estimated Quantity</u>	<u>Unit Price</u>	<u>Total Price</u>
03030.03	Exploratory Excavation, (0-10' Deep ), SD-TD-2	Ea	5	\$	\$
05100.01DS	Adjust Structure Cover	Ea	188	\$	\$
05100.02DS	Structure Frame	Ea	110	\$	\$
05100.03DS	Structure Covers	Ea	110	\$	\$
05100.04DS	Adjust Monument Box or Gate Valve Box	Ea	20	\$	\$
06000.01	12 In., CL IV RCP Storm Sewer, SD-TD-1	Ft	455	\$	\$
06003.04	12 In., PE Storm Sewer, SD-TD-2	Ft	308	\$	\$
06030.04	Storm Sewer Tap, 12 In. Dia	Ea	11	\$	\$
06060.03	Storm Inlet-Junction, 48 In., Dia., (0-8'deep)	Ea	6	\$	\$
06060.04	Storm Inlet-Junction, 48 In., Dia., Additional Depth	Ft	3	\$	\$
06070.01	Storm Single Inlet, 24 In. ,Dia., (0-8'deep)	Ea	53	\$	\$
06070.02	Storm Single Inlet, 24In. ,Dia., Additional Depth	Ft	12	\$	\$
06080.01	Storm High Capacity Intet, 48 In. Dia., (0-8'deep)	Ea	3	\$	\$
06120.02	Storm Sewer Pipe, 10 in. Dia., Rem	Ft	25	\$	\$
06120.03	Storm Sewer Pipe, 12 in. Dia., Rem	Ft	565	\$	\$
06140.00	Storm Sewer Structure, Rem	Ea	65	\$	\$
06160.01	Storm Structure Cover, Type K	Ea	75	\$	\$
06160.03	Storm Structure Adjust, Additional Depth	Ft	27	\$	\$
06180.02	Underdrain, Subgrade, 6 inch	Ft	560	\$	\$
06300.00DS	Dr Structure, Point	Ea	50	\$	\$
06300.01DS	Structure, Reconstruct	Ea	10	\$	\$
07121.00	Curb Box, Adjust	Ea	20	\$	\$
08010.06DS	Aggregate Base Course, 21AA, CIP	Ton	460	\$	\$
08050.01DS	Geotextile, Separator Fabric	Syd	3,250	\$	\$
08051.01DS	Geotextile, Stabilization Fabric	Syd	300	\$	\$
08052.01DS	Flowable Fill	Cyd	60	\$	\$
08060.00	Hand Patching	Ton	544	\$	\$
08070.18	HMA, 5EL	Ton	18,000	\$	\$
08070.19	HMA, 5EML	Ton	150	\$	\$
08070.30DS	HMA, Soil Erosion, Wedge	Ft	1,265	\$	\$
08070.31DS	HMA, Wedging	Ton	50	\$	\$
08100.10DS	Sidewalk Retaining Wall, Integral, 6 inch to 18 inch Height	Sft	55	\$	\$
08110.00	Conc, Curb or Curb & Gutter, All Types	Ft	10,000	\$	\$
08120.01	Conc, Driveway Opening, Type M	Ft	4,375	\$	\$
08134.03DS	Conc, Sidewalk, 4 in	Sft	28,500	\$	\$

TOTAL THIS PAGE 16

(Also to be entered on Page 17)

\$ \_\_\_\_\_

Company:

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File # 2024-004 RFP 24-04

<u>Item No.</u>	<u>Description</u>	<u>Unit</u>	<u>Estimated Quantity</u>	<u>Unit Price</u>	<u>Total Price</u>
<b>08134.04DS</b>	<b>Conc, Sidewalk or Ramp, 6 inch</b>	<b>Sft</b>	<b>4,850</b>	\$ _____	\$ _____
08134.01DS	Driveway, Nonreinf Conc, 6 inch, Modified	Sft	4,300	\$ _____	\$ _____
08134.02DS	Driveway, Nonreinf Conc, 8 inch, Modified	Sft	530	\$ _____	\$ _____
08140.00	Brick Pavers, Sidewalk, Rem and Reinstall	Sft	240	\$ _____	\$ _____
08140.01DS	Raised Intersection, Conc	Syd	662	\$ _____	\$ _____
08140.02DS	Speed Hump, Conc	Syd	756	\$ _____	\$ _____
08150.00	Detectable Warning Surface	Ft	540	\$ _____	\$ _____
08180.02	Pavt Mrkg, Ovly Cold Plastic, Bike, Small Sym	Ea	15	\$ _____	\$ _____
08180.04	Pavt Mrkg, Ovly Cold Plastic, Sharrow Sym	Ea	20	\$ _____	\$ _____
08200.07	Pavt Mrkg, Polyurea, 12 In., Crosswalk	Ft	20	\$ _____	\$ _____
08200.09	Pavt Mrkg, Polyurea, 24 In., Stop Bar	Ft	100	\$ _____	\$ _____
08200.12	Pavt Mrkg, Polyurea, 4 In., Yellow	Ft	100	\$ _____	\$ _____
08200.13	Pavt Mrkg, Polyurea, 6 In., White	Ft	100	\$ _____	\$ _____
08200.31	Pavt Mrkg, Polyurea, Speed Hump Chevron, White	Ea	96	\$ _____	\$ _____
08220.03	Pavt Mrkg, Thermopl, 12 In., Crosswalk	Ft	4,130	\$ _____	\$ _____
08220.06	Pavt Mrkg, Thermopl, 24 In., Stop Bar	Ft	640	\$ _____	\$ _____
08251.00	Recessing Pavt Mrkg, Longit	Ft	300	\$ _____	\$ _____
08263.00	Rem Curing Compound, for Spec Mrkg	Sft	1,570	\$ _____	\$ _____
<b>10030.00</b>	<b>Fence, Rem</b>	<b>Ft</b>	<b>110</b>	\$ _____	\$ _____
10051.01DS	Irrigation System, Protection and Maintenance, Allowance	Dir	1	\$ 15,000	\$ 15,000
10060.00	Turf Restoration	Syd	7,250	\$ _____	\$ _____
TOTAL THIS PAGE 17				\$ _____	_____
TOTAL FROM PAGE 15				\$ _____	_____
TOTAL FROM PAGE 16				\$ _____	_____
<b>TOTAL BASE BID</b>				\$ _____	_____

<b>Detailed Specifications</b>	<b>No. of Pages</b>	<b>DS Page No.</b>
Certified Payroll Compliance and Reporting	1	DS 2
Project Schedule	3	DS 3
2024 Resurfacing Schedule of Streets	2	DS 6
Vacuum Type Cleaning	1	DS 8
Temporary Pedestrian Access Route (TPAR) Facilities	4	DS 9
Tree Trimming	1	DS 13
Cold Milling for Concrete Curb and Gutter Reveal	1	DS 14
HMA Pavement Repairs	1	DS 15
Removing Hot Mix Asphalt Around Structure Covers	1	DS 16
Grading Sidewalks, Sidewalk Ramps, and Driveways	1	DS 17
Grading Road	2	DS 18
Subgrade Undercutting	2	DS 20
Structure Cover Adjustments	2	DS 22
Structure Covers	2	DS 24
Drainage and Utility Structure Reconstruction	3	DS 26
Drainage and Utility Structures	1	DS 29
Aggregate Base	1	DS 30
Concrete Driveway Approach	1	DS 31
Concrete Sidewalk	2	DS 32
Flowable Fill	1	DS 34
Hot Mix Asphalt (HMA) Paving	3	DS 35
HMA, Soil Erosion Wedge	1	DS 38
HMA, Wedging	1	DS 39
Sidewalk Retaining Walls	4	DS 40
Protecting and Preserving Irrigation Systems	2	DS 44

CITY OF ANN ARBOR  
DETAILED SPECIFICATION  
FOR  
**CERTIFIED PAYROLL COMPLIANCE AND REPORTING**

AA:MGN/AMW

1 of 1

01/15/2024

**Description.** This detailed specification covers payroll reporting procedures to be followed by Contractors performing work on City public improvements projects, and the applicable sections of the City of Ann Arbor Code of Ordinances regarding payment of prevailing wages and its Prevailing Wage Compliance policy.

**General.** The Contractor will comply with all applicable sections of Federal and State prevailing wage laws, stated regulations, the City of Ann Arbor Code of Ordinances, and its Prevailing Wage Compliance Policy as defined within the contract documents. The Contractor and all first tier subcontractors shall provide the required certified payrolls, city-required declarations, and reports requested weekly.

The Contractor shall provide corrected copies of any submitted documents found to contain errors, omissions, inconsistencies, or other deficiencies that render the report invalid. Provide corrected copies when requested by the Supervising Professional within the timeframes outlined.

The Contractor shall attend any required meetings as needed to fully discuss and ensure compliance with the contract requirements regarding prevailing wage compliance.

The Contractor shall require all employees engaged in on-site work to participate in wage rate interviews and provide the requested information to the extent feasible and cooperate in the interview process. The City of Ann Arbor will provide language interpreters, if necessary, in order to perform wage rate interviews or other field investigations as needed.

Certified payrolls are required to be submitted through the current system being utilized by the City in the format required by said system. If a specialized system, other than email, is being utilized by the City for payroll submittal it will be at no additional cost to the contractor and will be covered in the preconstruction meeting.

CITY OF ANN ARBOR  
DETAILED SPECIFICATION  
FOR  
**PROJECT SCHEDULE**

AA:NSH/AMW/NJB

1 of 3

01/15/2024

Complete the entirety of work under this Contract in accordance with, and subject to, the scheduling requirements as outlined below, and all other requirements of the Contract Documents.

Organize, coordinate, and diligently execute the work at the locations shown on the Schedule of Streets included herein. The schedule details the requirements, if any, for the Start of Work (on or after dates specified), the Completion of Work (on or before dates specified), For the purpose of this Contract, the "Start of Work" definition is the date when the temporary "No-Parking" signs become effective, and all required temporary traffic control and SESC measures are in place and ready for use. The city will consider individual streets or phases to be open to traffic once pavement markings are in place or once all structures covers are raised to finished grade. Within 10 days of opening the street to traffic the Contractor shall complete all work, which includes, but is not limited to, minor slope restoration, clean-up, street cleaning, utility structure cleaning, the removal of all temporary traffic control and SESC devices and temporary "No Parking" signs, and other necessary work and as directed by the Engineer. Failure to complete work in a timely manner may result in the suspension of active project work or a delay in starting subsequently planned project work.

No work shall be performed during Holiday weekends as follows, unless approved in advance by the Engineer:

- Memorial Day, from 3:00 p.m. Friday May 24, 2024, through 7:00 a.m. Tuesday May 28, 2024
- Fourth of July, from 3:00 p.m. Wednesday July 3, 2024, through 7:00 a.m. Friday July 5, 2024
- Labor Day, from 3:00 p.m. Friday August 30, 2024 through 7:00 a.m. Tuesday September 3, 2024

No work shall be performed on Saturday on which University of Michigan home football games are scheduled (see following dates); unless approved in advance by the Engineer:

- August 31, 2024
- September 7, 2024
- September 14, 2024
- September 21, 2024
- September 28, 2024
- October 26, 2024
- November 2, 2024
- November 23, 2024

The Engineer shall limit the Contractor's work operations to **no more than four (4) streets under construction** at a given time. This is to provide reasonable limits for proper and thorough inspection, and to limit traffic control and/or safety concerns. The Contractor shall not have more

than four (4) operations occurring simultaneously at all locations during any workday unless approved the Engineer.

The City expects to furnish the Contractor with two (2) copies of the Contract, for its execution, on or before **April 2, 2024**, The Contractor shall properly execute both copies of the Contract and return them, with the required Bonds and Insurance documentation, to the City. The Contractor shall not begin the work before the applicable date(s) as described herein without approval from the Project Engineer, and in no case before the receipt of the fully executed Contract and Notice to Proceed.

By no later than **April 15, 2024**, the Contractor shall submit a detailed schedule of work (progress schedule) for the Engineer's review and approval. The progress schedule must meet the scheduling windows for each phase contained on the **Schedule of Streets**. The Contractor shall then provide a detailed schedule clearly indicating, the start and the finish date of each work task on each street. The Contractor shall update the progress schedule each week detailing the work taking place on each of the streets over the next two-week period. Engineer shall have an opportunity to review and approve the schedule in terms of; deviations from the most current, approved schedule, prior to the weekly progress meeting.

The Contractor shall begin the work of this project on or after **April 22, 2024**, and only upon receipt of the fully executed Contract, Notice to Proceed and approved Progress Schedule.

Complete the entire project on or before **November 16, 2024**. Completion of the project means all locations shown on the Schedule of Streets are complete and ready for use in accordance with the "Completion of Work" as defined above.

Failure to open to traffic or complete all work as specified within the times specified, including time extensions granted thereto as determined by the Engineer, shall entitle the City to deduct dollar amounts specified in the Schedule of Streets as "Liquidated Damages" from the payments due the Contractor. Liquidated damages of **\$2,000 per calendar day** will be assessed per street for any streets not completed on time.

Time is of the essence in the performance of the work of this contract. The Contractor is expected to mobilize sufficient personnel and equipment and work throughout all authorized hours to complete the project by the intermediate (location specific) and final completion dates. Should the Contractor demonstrate that they must work on some Sundays in order to maintain the project schedule, they may do so between the hours of 9:00 a.m. and 5:00 p.m. with prior approval from the City. There will be no additional compensation due to the Contractor for work performed on Sundays. Any requests to work Sundays must be made to the Engineer no later than the prior Thursday.

The Engineer may delay or stop the work due to threatening weather conditions. No compensation shall be due the Contractor for unused materials or downtime due to rain, or the threat of rain. The Contractor is solely responsible for repairing all damage to the work and to the site, including any City infrastructure, and any adjacent properties resulting from its decision to work in the rain.

The Contractor shall not work in the dark except as approved by the Engineer and shall provide lighting for night work as detailed elsewhere in this contract. The Engineer may stop the work or may require the Contractor to defer certain work to another day, if, in the Engineer's opinion, the Contractor cannot be complete the work within the remaining daylight hours, or if inadequate daylight is present to properly perform or inspect the work. No compensation shall be due to the

Contractor for unused materials or downtime, when the Engineer directs work stoppage for reasons due to darkness and/or inadequate remaining daylight. The Contractor is solely responsible for repairing all damages to the work and to the site, including any City infrastructure, and any adjacent properties, which result from working in the dark.

Assessment of Liquidated Damages will occur until the required work is complete in the current construction season. If, with the Engineer's approval, work on any individual street extends beyond seasonal limitations, the assessment of Liquidated Damages will discontinue until the work resumes in the following construction season.

If the construction contract is not complete within the specified period(s) including any extensions of time granted thereto, at the sole discretion of the City of Ann Arbor it may terminate the Contract. Should this occur no additional compensation will be due to the Contractor, and the Contractor may be forbidden to bid on future City of Ann Arbor projects for a period of at least three (3) years. If the Engineer elects to terminate the Contract, payment for contract items with a Lump Sum unit price will be up to a maximum amount equal to the percentage of the contract work that is complete at the time of termination.

The City's decision to delete streets, add streets, change the construction limits on streets, or, the City's contribution to a delay of the construction on any one street shall not entitle the Contractor to receive additional compensation for work on any other street(s) or phase(s), nor shall it relieve the Contractor of any responsibilities for completion of work on any other street(s) or phase(s).

Include any/all efforts to organize, coordinate, and schedule the project work in the contract unit price bid for the pay item **General Conditions, Max \$\_\_\_\_\_**.

## 2024 Resurfacing Schedule of Streets

Phase	Duration	Neighbourhood / Type	Street	From	To
1	April 11- May 18	Pathway	Earhart	Glazier Way	Kipling
1	April 11- May 18	Pathway	Glazier Way	Earhart	Tremont
2	May 20 - June 1	Bond St	Northbrook	Ann Arbor Saline Dr	End
3	June 3- June 22	Lakewood	Andrea Ct.	Lakewood	Gralake
3	June 3- June 22	Lakewood	Highlake Part 1	300 ft S of Lakeview	End
3	June 3- June 22	Lakewood	Hilltop Dr	Highlake	to Bend past Gralake
3	June 3- June 22	Lakewood	Lake Park Ln	McCotter	End of Pavt
3	June 3- June 22	Lakewood	McCotter Dr	Park Lake	Lakewood
4	June 24- Aug 30	Lakewood	Dolph Dr/Central Ave	Sunnywood	Hazelwood
4	June 24- Aug 30	Lakewood	Gralake	Jackson	End
4	June 24- Aug 30	Lakewood	Highlake Part 2	Jackson	300 ft S of Lakeview
4	June 24- Aug 30	Lakewood	Lakeview Dr	Parklake	Highlake
4	June 24- Aug 30	Lakewood	Lakewood Dr	Park Lake	Gralake
4	June 24- Aug 30	Lakewood	Mason Ave	Jackson	End
4	June 24- Aug 30	Lakewood	Parklake Ave	Jackson	Lakeview
4	June 24- Aug 30	Lakewood	Sunnywood Dr	Dolph	Highlake
5	Sept 3-Sept 7	Major St	N. Ashley Street	Kingsly	Miller
6	Sept 9 - Sept 28	Bond St	Page Ave	Harpst	End
7	Sept 30- Oct 12	Bond St	Yost	Parkwood/Darrow	End
8	Oct 14- Nov 2	Burwood	Burwood Ave	Jackson	Liberty
9	Nov 4- Nov 16	Traffic Calming	Baldwin	Packard	Stadium
9	Nov 4- Nov 16	Traffic Calming	Fulmer	Miller	Foss
9	Nov 4- Nov 16	Traffic Calming	Grandview	Dexter	Jackson
9	Nov 4- Nov 16	Traffic Calming	Manchester	Needham	Buckingham



## 2024 Resurfacing Program

- May Ph 1 Pathways Earhart & Glazier Way
- May Ph 2 Northbrook Bond
- May Ph 3 Lkwd Sub, Highlake Pt 1, Hilltop and All 3 Alleys Andrea, Lake Park, McCotter
- Jun Aug Ph 4 Lkwd Sub, Mason, Gralake, Lkview, Lkwood, Sunnywd, Central/ Dolph, Park Lake
- Sep Ph 5 Ashley
- Sep Ph 6 Page Sidewalk & Bond
- Oct Ph 7 Yost Bond
- Oct Ph 8 Burwood
- Nov Ph 9 Fulmer/ Baldwin/ Manchester/ Grandview Traffic Calming Program

April 2024						
S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30				

May 2024						
S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

June 2024						
S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30						

July 2024						
S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

August 2024						
S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

September 2024						
S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

October 2024						
S	M	T	W	T	F	S
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6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

November 2024						
S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

December 2024						
S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

CITY OF ANN ARBOR  
DETAILED SPECIFICATION  
FOR  
**VACUUM TYPE CLEANING**

AA:DAD/AMW

1 of 1

01/17/2024

**a. Description.** This work includes furnishing and operating throughout the construction period, vacuum type street cleaning and utility structure cleaning equipment (Vac-All, Vactor, etc.) approved by the Engineer, as and when directed by the Engineer for dust control, for dirt/debris control, and for street cleaning immediately prior to paving, and for street and utility structure cleaning after any and all paving.

**b. Materials.** None specified.

**c. Construction.** The Contractor shall furnish and operate throughout the construction period, vacuum type street cleaning and utility structure cleaning equipment (Vac-All, Vactor, etc.) approved by the Engineer. When directed by the Engineer, the Contract shall use this equipment to control dust, dirt, and other debris within the project limits and beyond as required, to clean streets surfaces immediately prior to placing HMA pavement mixtures, and for street and utility structure cleaning after any and all paving. The cleaning equipment shall be of sufficient power to remove dust, dirt, and debris from the pavement and from utility structures in and adjacent to the construction area.

**d. Measurement and Payment.** Measurement and pay for this item of work, as described, at the contract unit price using the following pay item:

<u>Pay Item</u>	<u>Pay Unit</u>
Vacuum Type Cleaning.....	Lump Sum

“**Vacuum Type Cleaning**” will be paid on a pro-rata basis at the time of each progress payment. Measurement will be based on the ratio between work completed during the payment period and the total contract amount. When all of the work of this Contract has been completed, the measurement of this item shall be 1.0 Lump Sum, minus any deductions incurred for inadequate performance as allowed by the contract. This amount will not be increased for any reason, including, but not limited to: extensions of time, agreed-upon extra costs, additional work added to the contract, adjustments to unit prices; and all similar additions to the contract.

CITY OF ANN ARBOR  
DETAILED SPECIFICATION  
FOR  
**TEMPORARY PEDESTRIAN ACCESS ROUTE (TPAR) FACILITIES**

AA:NJB

1 of 4

1/23/24

**DESCRIPTION**

This work consists of furnishing, installing, maintaining, relocating, and removing temporary pedestrian ramps, mats, and channelizers as identified in the proposal or on the plans. Use TPAR facilities to facilitate pedestrian travel on accessible facilities over curbs or other uneven terrain features with a vertical difference of 1/2 inch or greater. Damaged pedestrian facilities will be replaced as directed by the Engineer.

**MATERIALS**

**A. Temporary Pedestrian Ramp**

Provide materials to construct a temporary pedestrian ramp in accordance with the *Americans with Disabilities Act (ADA)*, the standard specifications, and the following:

1. Ensure the material used to construct the temporary pedestrian ramp is firm, stable, skid resistant, and forms a continuous hard surface. Ensure the surface does not warp, buckle or otherwise become uneven, and materials support the weight of pedestrians as well as motorized scooters and wheelchairs. Suitable materials to construct the surface of the ramp include asphalt materials, Oriented Strand Board (OSB) or plywood, dimensional lumber, certain reclaimed or other materials as approved by the Engineer. Compacted soils, aggregate and sand are prohibited.
2. Provide a handrail on both sides of the ramp if the ramp is not exposed to vehicle traffic and has a total rise greater than 6 inches, and a length greater than 72 inches. Ensure the handrail is between 1.25 and 1.5 inches wide and configured to be a “graspable” cross-section. See construction subsection 2.A for additional details. When the ramp is exposed to traffic, in lieu of handrails, use a protective edge 2.5 inches minimum height above the ramp surface or 1:10 flare on both sides of the ramp.
3. Ensure the surface of the ramp is free draining; in addition provide features that allow drainage to move past the ramp installation (i.e. along the gutter pan underneath the ramp if the ramp is installed on a curb).
4. Provide materials to construct detectable edging along open sides of the ramp if required.
5. If asphalt materials are not used to construct the surface of the ramp, provide an antiskid coating or surface treatment approved by the Engineer.

**B. Temporary Pedestrian Mat**

Provide materials for a temporary pedestrian mat in accordance with the *Americans with Disabilities Act (ADA)*, the standard specifications, and the following:

1. Ensure the material used for the temporary pedestrian mat is firm, stable, skid resistant, and forms a continuous hard surface. Ensure the surface does not warp,

CITY OF ANN ARBOR  
DETAILED SPECIFICATION  
FOR  
**TEMPORARY PEDESTRIAN ACCESS ROUTE (TPAR) FACILITIES**

AA:NJB

2 of 4

1/23/24

buckle or otherwise become uneven, and materials support the weight of pedestrians as well as motorized scooters and wheelchairs. Suitable materials will be determined by the Engineer after shop drawings or products information is provided.

2. Mats shall be at least 60 inches wide and not have traversable edges more than ½ inch high.
3. Ensure the surface of the mat is free draining.

**C. Pedestrian Channelizing Device**

Provide materials for a temporary pedestrian channelizing device in accordance with the *Americans with Disabilities Act (ADA)*, the standard specifications, and the following:

1. Upper surface shall be smooth, continuous for hand-trailing.
2. Detectible bottom edge shall be continuous, and space between the bottom and ground shall be less than 2 inches;
3. Ballast shall be located behind or internal to the device, and no support exceeding 0.5 inches in height shall protrude into the protected access route.
4. Devices shall interlock to ensure continuity of guidance.
5. Device shall be injection molded plastic orange with high visibility reflective decals along both faces

**CONSTRUCTION METHOD**

Construct the temporary pedestrian ramp in accordance with the manufacturer's recommendations (if applicable), *ADA*, the plans, and the following:

1. Ensure the useable surface of the ramp is 48 inches wide and does not deflect due to pedestrian traffic. Ensure an anti-skid surface treatment is applied to the useable area of the ramp if it is not made from asphalt materials. The maximum cross slope of the ramp is 2 percent. Ensure both ends of the ramp smoothly transitions to the adjacent surface, with 1/4 inch or less vertical difference.

Construct the ramp to maintain a longitudinal slope from 1:10 to 1:12 where possible. Otherwise, a longitudinal slope from 1:8 to 1:10 may be used for a maximum rise of 3 inches. Temporary pedestrian ramps with longitudinal slopes greater than 1:8 are prohibited.

- A. Provide a handrail on both sides of the ramp if required as stated herein. Ensure the top of the handrail is between 34 and 38 inches above the surface of the ramp. Ensure a minimum width of 36 inches is maintained between the handrails, with a minimum clearance of 1.5 inches behind and 18 inches above.

Construct the handrail such that the bending stress applied by a bending moment created by a 250 pound force is less than the allowable stress for the materials and the construction of the handrail. Construct the handrail to withstand the shear

CITY OF ANN ARBOR  
 DETAILED SPECIFICATION  
 FOR  
**TEMPORARY PEDESTRIAN ACCESS ROUTE (TPAR) FACILITIES**

AA:NJB

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1/23/24

stress induced by a 250 pound force. Ensure all fasteners, mounting devices and support structures are also able to withstand shear stress induced by a 250 pound force.

2. Construct a detectable edging anytime a handrail is required, and anytime the path changes direction. This includes a turn onto the ramp from the path. Detectable edging must begin a maximum of 2.5 inches above the ramp surface, and extend at least 6 inches above the ramp surface.
3. Ensure a clear space (minimum 48 inches by 48 inches) is provided above and below the ramp.
4. Avoid locating ramps in areas of drainage collection, ponding or running water, which can produce slippery or unsafe conditions. If the ramp is located over a gutter pan or other drainage structure, provide features to facilitate water movement around or under the ramp as approved by the Engineer.
5. Ensure all debris and construction material is cleared from the surface of the ramp throughout its use. Ensure snow and ice is removed; the use of an approved de-icing agent may be required. Repair or replace the ramp if it becomes uneven, unstable, or displaces due to weather events, construction activities, or other causes as directed by the Engineer.

**MEASUREMENT AND PAYMENT**

All TPAR facilities furnished by the Contractor shall remain the property of the Contractor. The City shall not be responsible for stolen or damaged ramps, mats, channelizers, or other TPAR items. The Contractor shall replace missing TPAR facilities immediately, at no additional cost to the City.

**Mats**, shall be paid for by center line foot of the maximum used project wide.

**Channelizing Devices**, shall be paid for by each (up to 5 ft wide unit), maximum used project wide.

**Ramps** that are fabricated and reusable, payment shall be for the maximum quantity used at any one time. Ramps that are constructed at each location with suitable material that cannot be relocated, such as HMA, shall be will be paid for at each location.

The completed work, as described, will be measured and paid for at the contract unit price using the following pay item:

<b>Pay Item</b>	<b>Pay Unit</b>
Temporary Pedestrian Ramp, Furn and Oper.....	Each
Temporary Pedestrian Mat, Furn and Oper .....	Feet
Pedestrian Channelizer Device, Furn and Oper .....	Each

CITY OF ANN ARBOR  
DETAILED SPECIFICATION  
FOR  
**TEMPORARY PEDESTRIAN ACCESS ROUTE (TPAR) FACILITIES**

AA:NJB

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1/23/24

**TPAR Facilities** unit prices include all labor, equipment, and materials to furnish, install and remove temporary pedestrian ramps and mats at the locations shown on the plans, as well as all costs for maintaining, clearing debris, deicing, reconfiguring, and relocating the temporary pedestrian ramps and mats throughout the life of the contract.

Costs for transporting ramps, mats, and channelizers shall be included in the bid prices for the individual items of work.

Additional re-installation of each device, operation of these items, shall be to be included in "Minor Traffic Control, Max \$\_\_\_\_\_".

CITY OF ANN ARBOR  
DETAILED SPECIFICATION  
FOR  
**TREE TRIMMING**

AA: AMW

1 of 1

01/15/2024

- a. **Description.** The work shall consist of trimming trees to remove limbs and branches in accordance with section 201 of the Michigan Department of Transportation 2020 Standard Specifications for Construction, the City of Ann Arbor Standard Specifications and/or as directed by the Engineer.
- b. **Materials.** None specified.
- c. **Construction.** Trees identified to be trimmed will be communicated with the Contractor by the Engineer. Any damage to the trees or to adjacent trees by the Contractor's operations will be addressed at the Contractor's expense, as directed by the Engineer.

Oak trees shall be trimmed between the months of November 1 and March 15. If oak trees are pruned or damaged outside of those months, immediately cover all wounds and pruning cuts with sealant as directed on the container and contact City Forestry.

Provide tree trimmers, aerial tower truck, chipper, chain saws, and other equipment necessary to do the required work. Remove cut limbs from the site.

- d. **Measurement and Payment.** The completed work, as described, will be measured, and paid for at the contract unit price using the following pay item:

<b>Pay Item</b>	<b>Pay Unit</b>
Tree Trimming.....	Dollars

**Tree Trimming** will be paid when invoices and necessary documentation are submitted; and will include all labor, materials, and equipment necessary to complete the trimming, removal and disposal as directed by the Engineer.

CITY OF ANN ARBOR  
DETAILED SPECIFICATION  
FOR  
**COLD MILLING FOR CONCRETE CURB AND GUTTER REVEAL**

AA:NJB

1 of 1

1/18/2024

**a. Description.** This work consists of cold milling existing concrete curb and gutter areas overlaid with HMA material to reveal the edge-of-metal of the curb and gutter in advance of the rest of the roads cold milling. The idea being it will allow for a condition inspection in advance of the curb repair effort. Work to be done in accordance with section 501 of the Michigan Department of Transportation 2020 Standard Specifications for Construction, as directed by the Engineer, and as described herein.

**b. Materials.** None specified.

**c. Construction.** Perform localized cold milling along the concrete gutter pan overlaid with HMA to reveal the edge-of-metal of the existing concrete curb and gutter. Perform this work in accordance with subsection 501.03 of the MDOT 2020 Standard Specifications for Construction, and as directed by the Engineer at the location designated by the Engineer. Perform subsequent handwork and/or necessary machine work to remove HMA overlay material from the gutter pan, and dispose of this material properly.

**d. Measurement and Payment.** Measure and pay for the completed work, as described, at the contract unit price using the following pay item:

<b>Pay Item</b>	<b>Pay Unit</b>
Cold Milling for Concrete Curb and Gutter Reveal.....	Syd

Measure **Cold Milling for Concrete Curb and Gutter Reveal** by square yards of gutter pan revealed, unit price includes the cost for all labor, equipment and materials required to remove, load, haul, and dispose of the cold milled material, and sweeping of the cold milled surface.



CITY OF ANN ARBOR  
 DETAILED SPECIFICATION  
 FOR  
**HMA PAVEMENT REPAIR**

AA:NJB

1 of 1

1/18/2024

- a. Description.** This work consists of repairing areas of failed asphalt pavement in partial depth, cold milling removal of existing pavement and placing new hot mix asphalt (HMA) material as directed by the Engineer. 2024 Standard Specifications Article 10 (Construction Specifications), III (Street Construction and Repair), D (Pavement Removal), accept as specified herein.
- b. Materials.** None
- c. Construction.** Remove additional area of HMA by running a second pass of the Cold Milling equipment over the identified area and to a depth as required by the Engineer on site.
- d. Measurement and Payment.** Measure and pay for the completed work, as described, at the respective contract unit prices using the following respective pay items:

<b>Pay Item</b>	<b>Pay Unit</b>
Cold Milling, Plunge Cut .....	Square Yard

Measure **Cold Milling, Plunge Cut** area by the unit square yard based on average width and length of the repair area and pay for it at the contract unit price, which price includes the cost for all labor, equipment and materials required to remove, load, haul, and dispose of the cold milled material, and cleaning the cold milled edges and bottom of milling surface if applicable.

Measure Hand Patching, by weight in tons of the material used to perform the work and pay for it at the contract unit price, which prices includes the cost for all labor, equipment and materials to complete the placement of small areas of restoration HMA work including providing, placing by hand or other methods, and compacting the HMA mixture in areas were Cold Milling, Plunge Cut HMA was removal.

CITY OF ANN ARBOR  
 DETIALED SPECIFICATION  
 FOR  
**REMOVING HOT MIX ASPHALT AROUND STRUCTURE COVERS**

AA:DAD

1 of 1

02/25/18

**a. Description.** This work consists of removing hot mix asphalt (HMA) from around existing (not lowered) structure covers during the cold milling operations, as required and as herein provided, whether structures are shown or not shown on the plans. Covers include those used for storm, sanitary, and water structures, gate and monument boxes, and other private utility structures.

This item does not apply to locations (streets) where structures have been temporary lowered in advance of the cold milling operations.

**b. Materials.** None specified.

**c. Construction.** Remove HMA surface adjacent to structure covers to the same depth as the cold milled surface without the removal of the aggregate or concrete base. Complete work in accordance with subsections 204.03 and 501.03 of the Michigan Department of Transportation (MDOT) 2020 Standard Specifications for Construction, and as directed by the Engineer.

Remove HMA surface, any thickness, from around existing structure covers using a milling machine, and/or hand tools, or other means as approved by the Engineer. Repair or replacement of any structure covers damaged during this operation is the sole responsibility of the Contractor.

**d. Measurement and Payment.** Measure and pay for the completed work, as described, at the contract unit price for the following pay item:

<u>Pay Item</u>	<u>Pay Unit</u>
HMA Surface, Around Structure Cover, Rem .....	Each

Measure **HMA Surface, Around Structure Cover, Rem** individually in place by the unit each and pay for it at the contract unit price, which price includes all cost for labor, equipment and materials necessary to complete the work.

The number of castings within the milling limits shall constitute the final amount. Measurement shall take place with both the Engineer and the Contractor (or their agents) present.

CITY OF ANN ARBOR  
 DETAILED SPECIFICATION  
 FOR  
**GRADING SIDEWALKS, SIDEWALK RAMPS, AND DRIVEWAYS**

AA:DAD/AMW

1 of 1

12/07/2023

**a. Description.** Remove miscellaneous structures and materials, and complete all earthwork required to construct new and replacement sidewalks, sidewalk ramps and driveway approaches to the lines and grades shown on the plans and/or as directed by the Engineer. Complete this work according to the Michigan Department of Transportation (MDOT) 2020 Standard Specifications for Construction, this detailed specification, and as directed by the Engineer.

**b. Materials.** Provide materials in accordance with subsection 205.02 of the MDOT 2020 Standard Specifications for Construction as necessary to achieve the required cross section(s). The Contractor may use excavated material, if suitable, as embankment with approval by the Engineer.

**c. Construction.** Complete this work, as applicable, according to subsection 205.03 of the MDOT 2020 Standard Specifications for Construction. Grading for sidewalks, sidewalk ramps and driveway approaches includes, but is not limited to, the following work:

1. Stripping and stockpiling topsoil for use in turf establishment as approved.
2. Removing rocks or boulders less than 0.5 cubic yards in volume.
3. Excavating material to a depth necessary for construction.
4. Disposing of excess and unsuitable material according to section 205 of the MDOT 2020 Standards Specifications for Construction.
5. Shaping, grading, and compacting the subgrade to proposed grades to prepare it for embankment, subbase or aggregate base bedding materials or for an aggregate surface course.
6. Furnishing and placing embankment material to the grades necessary for construction.
7. Shaping, grading, and compacting embankment to proposed grades to prepare it for subbase or aggregate base bedding materials or for an aggregate surface course.
8. Matching new sidewalk, sidewalk ramp, and driveway approach grades with existing grades as required.
9. Removal of shrubs, brush, and trees less than 6" diameter (DBH) as shown on the plan sheets or as directed by Engineer;

**d. Measurement and Payment.** Measure and pay for the completed work, as described, at the contract unit price using the following pay item:

<u>Pay Item</u>	<u>Pay Unit</u>
Grading, Sidewalk, Ramp & Driveway Approach .....	Square Foot

Measure **Grading, Sidewalk, Ramp & Driveway Approach** areas in place by the unit square foot and pay for them at their respective contract unit prices, which prices include the costs for all labor, equipment and materials necessary to complete the work.

CITY OF ANN ARBOR  
DETAILED SPECIFICATION  
FOR  
**GRADING ROADWAY**

AA:NJB

1 of 2

1/23/24

**a. Description.** The pay item “Grading Roadway” shall be used to for effort in motor grading and compact the aggregate base in preparation for placing HMA base material. Effort shall be in accordance with 2024 Standard Specification Article 10 (Construction Specifications) Section III (Street Construction and Repair). G (Subgrade, Subbase and Base Construction) except as specified herein.

Areas that are deemed by the Engineer to require subgrade undercutting with engineered backfill to provide a stable subgrade shall be paid for as “**Undercutting, Type II \_, Cyd**”.

Areas where more HMA is removed than the new proposed cross section shall be built up and paid for as “**Aggregate Base Course, 21AA, CIP, Ton**”.

**b. Materials.** No Materials

**c. Construction Method.** The Contractor shall hone the grade edge of metal to edge of metal where curb and gutter exist or 12 inches past proposed edge of pavement. Working with existing aggregate materials to develop the typical and/or detailed cross-section(s) as shown on the Plans, as detailed in the Specifications, and as directed by the Engineer. This shall include, but not be limited to, the excavation of miscellaneous concrete and miscellaneous HMA pavement, soil, rocks of any size, and bricks; the removal and proper disposal off-site of surplus excavated material; the scarifying, of existing aggregate base, the trimming, grading, compaction and proof-rolling of the prepared subgrade; the full depth saw-cutting of pavement at the removal limits. Road subbase and base materials imported shall be paid for separately.

The Contractor shall add to, re-shape, re-grade, and re-compact the existing roadbed materials, and shall construct the roadway to the cross-section(s) as indicated on the Plans, as detailed in the Specifications, and as directed by the Engineer. The Contractor shall use blade graders, vibratory rollers, and/or other equipment as necessary and as directed by the Engineer, for this work. Use of each specific piece of equipment is subject to the approval of the Engineer.

The Contractor shall remove, dispose, all bricks, if present, as directed by the Engineer.

Signs in the grading limits shall be salvaged and provided to City as directed by the Engineer.

The Contractor shall move exiting or imported materials longitudinally and/or transversely where necessary, and as directed by Engineer.

The Contractor shall keep the work well graded and drained at all times.

The Contractor is solely responsible for the maintenance and protection of the subgrade. Further, any damage to the subgrade which, in the opinion of the Engineer, is caused as a result of the Contractor's operation(s), or its subcontractors' or suppliers' operation(s), shall be repaired by the Contractor at the Contractor's expense. This includes any additional earthwork and/or maintenance materials as directed by the Engineer, for the purposes of the Contractor's maintenance and protection of the subgrade. The Contractor shall not be entitled to any additional compensation for the implementation of these procedures.

CITY OF ANN ARBOR  
DETAILED SPECIFICATION  
FOR  
**GRADING ROADWAY**

AA:NJB

2 of 2

1/23/24

The Contractor shall proof roll all graded and compacted surfaces in the presence of the Engineer as detailed in the Specifications. The Engineer will monitor the proof rolling operation to locate deleterious and/or uncompacted materials and will direct undercuts, as necessary.

The Contractor shall coordinate with the City Forester prior to the removal of any tree roots 2-inch or larger in size.

**d. Measurement and Payment.** Measurement for payment for the item “**Grading Roadway**” shall be measured as the area between edge of metal to edge of metal in curb and gutter section, or 12 inches beyond proposed edge of pavement only of the area worked.

The completed work as measured for this item of work will be paid for at the Contract unit price for the following Contract (Pay) Item:

<b>Contract Item (Pay Item)</b>	<b>Pay Unit</b>
Grading Roadway.....	Square Yard

The pay item **Grading Roadway** shall be measured in square yards for all the work specified herein, the complete the fine grading of the aggregate prior to the placement of HMA.

CITY OF ANN ARBOR  
DETAILED SPECIFICATION  
FOR  
**SUBGRADE UNDERCUTTING**

AA:NJB

1 of 2

11/08/2023

**a. Description.** This work includes removal of unsuitable subgrade material(s) in the areas and limits identified by the Engineer. It also includes installing geotextile and/or geogrid as necessary and backfilling to replace these material(s) and remedy the unstable soil conditions in accordance with the 2020 MDOT Standard Specifications for Construction, and the City of Ann Arbor Public Services Department Standard Specifications, except as modified herein.

**b. Materials.** Provide Granular Material Class II or 21AA dense-graded aggregate materials in accordance with those specified in section 902 of the MDOT 2020 Standard Specifications for Construction.

Provide Coarse Aggregate 3x1 in accordance with sections 902 and 916 the MDOT 2020 Standard Specifications for Construction, except as modified herein. Coarse crushed aggregate must consist of a well graded crushed natural aggregate ranging from one (1) inch to three (3) inch inches in size with no more than 7 percent by weight passing the No. 200 sieve. Coarse aggregate crushed content must be at least 95%.

Provide woven stabilization geotextile in accordance with section 910 of the MDOT 2020 Standard Specifications for Construction.

Provide road grade biaxial geogrid materials in accordance with section 910 of the MDOT 2020 Standard Specifications for Construction.

**c. Construction.** Use construction methods as described in subsection 205.03.E of the MDOT 2020 Standard Specifications for Construction, and as directed by the Engineer.

After either removing the pavement, performing rough/finish grading, and/or at the time of proof rolling, the Engineer will inspect the grade to determine the need for, and the limits of, undercuts. Excavate to the required depth, trim, shape, and re-compact the undercut areas as directed by the Engineer. Properly dispose of all excess materials.

Backfill areas of Undercutting, Type IIA with class 21AA dense-graded aggregate, areas of Undercutting, Type IIB with Granular Material Class II, and areas Undercutting, Type IIC with Coarse Aggregate 3x1 unless directed otherwise by the Engineer.

Place stabilization geotextile and/or structural geogrid as directed by the Engineer in areas where subgrade soils require added stability over a roughly level surface. Where the width of the role allows geosynthetics shall be placed in the middle of the trench and extra width allowed to be placed vertically along the trench wall. Place stabilization geotextile as directed by the Engineer in areas where is the potential of intermixing of dissimilar materials.

Place and compact the aggregate fill in maximum lifts of not more than 12 inches thick. At the discretion of the Engineer, aggregate fill lifts of up to 24 inches may be allowed based on the assessment of subgrade soil conditions.

Compact undercutting backfill material (>12 inches below the finish base grade) to not less than 95% of its maximum unit weight. Compact undercutting backfill material (≤12 inches below the

finish base grade) to not less than 98% of its maximum unit weight. Determine the maximum unit weight of backfill materials using the AASHTO T-180 test.

The Engineer may elect to use one or more types of undercutting to address poor soil conditions identified in a specific area of the project.

**d. Measurement and Payment.** Measure and pay for the completed work, as described, at the contract unit prices using the following pay items:

<u>Pay Item</u>	<u>Pay Unit</u>
Undercutting, Type IIA.....	Cubic Yard
Undercutting, Type IIB.....	Cubic Yard
Undercutting, Type IIC .....	Cubic Yard
Geotextile, ____ Fabric .....	Square Yard
Geogrid.....	Square Yard

Measure **Subgrade Undercutting, Type IIA, Subgrade Undercutting, Type IIB, and Subgrade Undercutting, Type IIC** volumes in place by the unit cubic yard and pay for them at their respective contract unit prices, which prices include the costs for all labor, equipment and materials necessary to complete the work.

When one or more than types of undercutting are used to address poor soil conditions identified in a specific area of the project, each type will be measured and paid for separately.

Measure **Geotextile, \_\_\_\_ Fabric** and **Geogrid** in the field by length and width of material installed. Material going up the sides of the trench will be included.

CITY OF ANN ARBOR  
DETAILED SPECIFICATION  
FOR  
**STRUCTURE COVER ADJUSTMENTS**

AA:NJB

1 of 2

01/23/24

- a. Description.** This work shall consist of adjusting structures covers including handholes, water valve boxes, and monument boxes within the full depth pavement surface. This references the 2024 Standard Specifications, except as modified herein.
- b. Materials.** Use of Concrete MDOT P-NC grade, concrete rings outside diameter matching the outside diameter of the manhole, and mortar.
- c. Construction.** Contractor shall follow the Standard Specification Article 10 (Construction Specifications), II U (Structure Adjustment). Breakdown the existing cover and corbel masonry so that the steel plate is set 12-inch below the existing surface. The existing frame and cover if in sound condition shall be cleaned up, concrete removed if necessary by hand chipper, and set aside for re-use. Backfill plate and hole with sufficient 21 AA aggregate.

After the wearing course has been placed the Contractor shall use a skid-steer with attached hydraulically mechanical circular core saw system to saw pavement full depth and adjust the casting. HMA surface will be cored with the structure cover centered in the collar. The diameter of the collar shall be 4 feet for 24-inch diameter cover and a 2 ft diameter core for water boxes and monument boxes.

After coring remove the material down to the steel plate, remove the plate and build up the corbel with concrete rings set in mortar, to support the frame to match the finish grade and cross slope. Backfill area between the core face and frame with concrete.

If the existing casting frame is in sound condition, it shall be re-used, if agreed upon by the Engineer that the frame cannot be reused a new frame shall be set and paid for separately under "Structure Frame".

Concrete surface shall be broom finished and four joints tooled in at a cross pattern. Care shall be taken to keep the HMA surface clean by placing plastic sheeting down at the work area.

Frames and Covers which cannot be reused shall be delivered to the City Utilities Department yard at 4251 Stone School Road (Wheeler Center) at the Contractor's expense.

Materials shall be stored by the Contractor at locations arranged by the Contractor, subject to the approval of the Engineer. The Contractor shall not store materials or equipment, including metal castings and steel plates, on any lawn area.

Hidden, or unknown utility structures may be encountered during the work. It is the Contractor's responsibility to inform the respective utility owner(s) of such findings. In such instances, the City may direct the Contractor to adjust the structure(s) to grade. This work will be paid as "Adjust Structure Cover". Contractor shall be responsible for marking 2 witness points, which they can use to determine the center point after wearing course placement.

The pointing of structures below the limits required for "Adjust Structure Cover" shall be paid for separately as "Dr Structure, Point".



CITY OF ANN ARBOR  
 DETAILED SPECIFICATION  
 FOR  
**STRUCTURE COVER ADJUSTMENTS**

AA:NJB

2 of 2

01/23/24

A thermoplastic concrete form may be used for a cast-in-place concrete structure riser/collar, as approved by the Engineer. The thermoplastic shall be of sufficient thickness to support the casting frame and cover through the placement of the supporting concrete.

This item includes the final adjustment of castings of any type to their respective finished elevations, up or down. All materials required to make the adjustments shall be included in this item of work. All underground structure covers shall be adjusted such that their finished surface elevation is within 1/4-inch of the finished surface sections, grades, slopes, and elevations, as shown on the Plans, and as directed by the Engineer. The work shall be verified by the use of a 10-foot straight-edge placed parallel with the pavement centerline. Structures not meeting the 1/4-inch tolerance shall be readjusted as directed by the Engineer, at the Contractor's expense.

This also includes the replacement of the top half of the water valve boxes and monument boxes where required and shall be included in this item of work. Gate valve box tops and covers shall be reused, except when broken or directed by the Engineer. New tops and covers for water valve boxes and monument boxes will be provided by the City. The Contractor shall collect and transport new valve boxes and covers to the site from the City Utilities Department yard at 4251 Stone School Road (Wheeler Center).

**d. Measurement and Payment.** The completed work, as described, will be measured, and paid for at the approved price for the following pay item:

<u>Contract Item (Pay Item)</u>	<u>Pay Unit</u>
Adjust Structure Cover.....	Each
Structure Frame.....	Each
Adjust Monument Box or Gate Valve Box.....	Each

Measure **Adjust Structure Cover** by unit each for each structure, item shall include all labor, material, and equipment costs required to breakdown the structure remove the cover and frame and remove corbel to depth, clean the frame if re-usable, supply and place steel plate, backfill with gravel, collect and handle frame and covers; after wearing course placed, core 4 ft diameter hole and excavate down to the steel plate, remove plate, rebuild corbel, set frame, supply and place concrete collar, finish and clean up.

Measure **Structure Frame** by unit each for each casting structure cover furnished and placed, item shall include all labor, materials and equipment to transport and set at a structure. Effort to set frame in mortar and adjust corbel shall be part of the "Adjust Structure Cover" pay item.

Measure **Adjust Monument Box and Gate Valve Box** by unit each by unit each for each box, item shall include all labor, material, and equipment costs required to breakdown the structure remove the cover and frame and lower box, supply and place steel plate, backfill with gravel, collect replacement box and cover if needed from PW yard or collect and handle box and covers; after wearing course placed, core 2 ft diameter hole and excavate down to the steel plate, remove plate, adjust box to height, supply and place concrete collar, finish and clean up.

CITY OF ANN ARBOR  
 DETAILED SPECIFICATION  
 FOR  
**STRUCTURE COVERS**

AA:NJB

1 of 2

1/18/2024

- a. **Description.** This work shall consist of replacing and furnishing frames and covers for utility (storm, sanitary, and water) structures as shown on the plans and as directed by the Engineer, in accordance with Section 403 of the 2020 MDOT Standard Specifications for Construction and the City of Ann Arbor Public Services Department Standard Specifications, except as modified herein.
- b. **Materials.** Provide materials meeting the requirements of subsection 403.02 and section 908 of the MDOT 2020 Standard Specifications. Provide frames and covers conforming to the model(s) shown in the table below, or equivalent approved by the Engineer.

<b>Type of Casting</b>	<b>Use</b>	<b>EJ No.</b>
Frame and Cover	Sanitary	1040AGS
Manhole Frame and Cover	Storm and Water	1040 w/ Type A Cover Type M1
Curb Inlet/Catch Basin Frame and Cover	Barrier curb & gutter	7045Z w/ 7045M1 Sinusoidal Grate
Curb Inlet/ Double Catch Basin Frame and Cover	Low point Barrier curb and gutter	7034Z w/7030 M2 Cubic Grate
Curb Inlet/Catch Basin Frame and Cover	Mountable curb & gutter	7065 w/ 7045M1 Sinusoidal Grate
Flat Inlet Frame and Cover	Driveway	5000 w/ Type M2 Sinusoidal Grate
Inlet/Catch Basin Frame and Cover	Beehive	1040Z O2 6" Tall, Black coated
Valve Box and Cover	Water Valve	8560 Screw Type 3 Piece Valve Box Set D

Frames and covers shall have machined bearing surfaces and City of Ann Arbor custom logo. Each cover shall have the word "SANITARY", "STORM", "WATER".

- c. **Construction.** All work shall be performed in accordance with subsection 403.03 of the MDOT 2020 Standard Specifications.

The Contractor shall store materials on site and/or at locations arranged by the Contractor, subject to the approval of the Engineer. The Contractor shall not store materials or equipment, including metal castings and steel plates, on any lawn areas.

CITY OF ANN ARBOR  
DETAILED SPECIFICATION  
FOR  
**STRUCTURE COVERS**

AA:NJB

2 of 2

1/18/2024

d. **Measurement and Payment.** The completed work as measured shall be paid at the Contract unit price for the following Contract items (pay items):

<b><u>Contract Item (Pay Item)</u></b>	<b><u>Pay Unit</u></b>
Structure Covers .....	Each

Measurement for **Structure Covers** shall be units of each, for each structure casting cover provided, item of work shall include all labor, materials and equipment needed to furnish and install cover.

Payment for the frame when they can not be reused shall be paid for under "Structure Frame".

Payment for a gate-valve box includes the cover and is included in "Adjust Monument Box or Gate Valve Box".

CITY OF ANN ARBOR  
DETAILED SPECIFICATION  
FOR  
**DRAINAGE AND UTILITY STRUCTURE RECONSTRUCTION**

AA:DAD/AMW

1 of 3

01/17/2024

**a. Description.** This work consists of reconstructing drainage and utility structures in accordance with section 403 of the Michigan Department of Transportation (MDOT) 2020 Standard Specifications for Construction, as shown on the plans, as directed by the Engineer, and as specified herein.

**b. Materials.** Provide materials in accordance with subsection 403.02 of the MDOT 2020 Standard Specifications for Construction except as specified herein.

Construct drainage structures of precast or cast in place reinforced concrete sections, or concrete masonry units. Construct all sanitary sewer manholes and gate wells (water main valve manholes) of precast reinforced concrete sections.

Use precast reinforced concrete bases, bottom sections, manhole risers, grade adjustment rings, concentric cones, eccentric cones, and flat slab tops conforming to the requirements of ASTM C 478. Joints on precast manholes used on all sanitary sewers will meet ASTM C 443, rubber O-ring gasket.

Use concrete masonry units conforming to the requirements for concrete masonry units for catch basins and manholes, ASTM C 139.

Use concrete brick conforming to the requirements for concrete building brick, ASTM C 55, Grade N-1.

Plastic coated manhole steps will be injection molded of copolymer, polypropylene, encapsulating a ½-inch grade 60 steel reinforcing bar. Plastic-coated manhole steps will meet the performance test described in ASTM C-478, Paragraph II, and have an impact resistance of 300 ft-lbs, with only minor deflection and no cracking or breaking. The steps will resist pull out forces of 1500 lbs.

**c. Construction.** Use construction methods for reconstructing drainage structures, where directed by the Engineer, conforming to subsection 403.03 of the MDOT 2020 Standard Specifications for Construction except as specified herein.

Excavate to the depth and width required to permit the construction of the required base. The excavation width will be greater than the base. Trim the bottom of the excavation to a uniform horizontal bed and completely dewater before placing any structure components.

Use concrete block construction only for storm sewer manholes and inlets and construct these structures to the size and dimensions shown on the plans. Use clean masonry block units, place them in a full bed of mortar, and thoroughly bond them together in place by completely filling the vertical end grooves with mortar to interlock them with the adjacent blocks. The mortar beds and joints will not exceed ¾ inch thickness. Completely fill vertical joints and fill joints on the inside face of the structure by rubbing them full of mortar and striking them smooth as construction proceeds vertically. Place and strike smooth a ½" thick mortar coat on the entire outside face of the structure. Heat all masonry materials, sand, and water to over 50° F during freezing weather and cover and protect the completed work from damage by freezing.

Construct circular precast manhole sections in accordance with the details as shown on the plans. Construct manhole stack units on level poured-in-place bases, precast concrete bases, or precast concrete bottom sections.

Construct precast cone sections in accordance with the details as shown on the plans. These units will be eccentric for all manholes, precast or block. Top all structures with a minimum of one and a maximum of three adjustment courses. Adjustment courses will be 2 inches in height and constructed using bricks or precast adjustment rings.

Construct manholes, inlets, gate wells, and other structures within 2-1/2 inches of plumb.

Frames and cover castings will be set in full mortar beds and pointed on the structure interior to a smooth, brushed finish. The covers will be set flush with sidewalk, roadway pavement, or ground surfaces. Notify the Engineer prior to the final paving to allow inspection of the final casting adjustments for all utility structures. In gravel streets, set covers six to eight inches below finished gravel surface.

Extend sewer pipes into structures a minimum of 1/2 inch and a maximum of 3 inches.

Finish flow channels for sewer structures in accordance with the details as shown on the plans. Screed and float all flow channels to a smooth, uniform surface and troweled to a hard surface finish.

Furnish and place stubs for future sewer connections as shown on the plans and as directed by the Engineer. Properly support and brace connections when they are not resting on original ground so that any settlement will not disturb the connection. Stubs will consist of one length of sewer pipe, of the size indicated on the plans, with a watertight plug.

Keep the excavation in a dry condition.

#### **Sealing Manhole Cone/Chimney Interface Area:**

Place an epoxy or urethane sealing product at the junction of the drainage structure cone/chimney interface as detailed on the plans or as directed by the Engineer. Use only products approved by the Engineer and manufactured by one of the suppliers listed below:

NPR-3501 Neopoxy (epoxy) manufactured by NeoPoxy International, 27057 Industrial Boulevard, Hayward, CA 94545, Phone 510.782.1290, Fax 510.782.1292 ([www.NeoPoxy.us](http://www.NeoPoxy.us))

EasySeal SG (urethane) manufactured by Cretex Specialty Products, N16 W23390 Stone Ridge Drive, Suite A, Waukesha WI 53188, Phone 800 345 3764, Fax 262.542.0301 ([www.cretexseals.com](http://www.cretexseals.com))

Flex-Seal (urethane) manufactured by Sealing Systems, Inc, 9350 County Road 19, Loretto, MN 55357, Phone 800-478-2054, Fax 763-478-8868 ([www.ssisealingsystems.com](http://www.ssisealingsystems.com))

For the purposes of this work, the definition of the manhole chimney is the masonry units sitting atop the pre-cast concrete or manhole block corbel or cone sections and extending up to the bottom of the drainage structure cover. Apply sealant to the entire chimney section. Thoroughly

clean the chimney section as detailed in the installation instructions of the sealant manufacturer. Apply all products in strict accordance with the recommendations and installation requirements of the manufacturer. The Engineer will approve the chosen sealing product prior to commencement of the work.

**d. Measurement and Payment.** Measure and pay for the completed work, as described, at the contract unit price for the following pay item:

<u>Pay Item</u>	<u>Pay Unit</u>
Structure, Reconstruct .....	Each

Measure **Structure, Reconstruct** in place by unit each and pay for it at the contract unit price, which price includes all costs for labor, equipment and materials to complete the work. It also includes any/all costs necessary for dewatering and adjustments required to accommodate field conditions encountered during construction.

CITY OF ANN ARBOR  
 DETAILED SPECIFICATION  
 FOR  
**DRAINAGE AND UTILITY STRUCTURES**

AA:DAD/AMW

1 of 1

01/17/2024

**a. Description.** This work consists of cleaning, pointing, and temporary lowering drainage and utility (storm, sanitary, water, private) structures whether shown or not on the plans, as directed by the Engineer, and as herein provided. Temporarily lower drainage and utility structures per the details shown on the plans.

**b. Materials.** Provide materials in accordance with subsection 403.02 of the Michigan Department of Transportation (MDOT) 2020 Standard Specifications for Construction, unless otherwise directed by the Engineer.

**c. Construction.** Clean, point, and temporary lower drainage and utility structures in accordance with subsection 403.03 of the MDOT 2020 Standard Specifications for Construction, and as directed by the Engineer.

Reconstruct drainage and utility structures from the base using precast reinforced concrete units or concrete block masonry.

Point structures by removing loose and damaged mortar, filling joints between concrete and masonry units with new mortar, and striking joints so the exposed surface is smooth and free of voids.

**d. Measurement and Payment.** Measure and pay for the completed work, as described, at the respective contract unit prices using the following respective pay items:

<u>Pay Item</u>	<u>Pay Unit</u>
Dr Structure, Cleaning, Modified .....	Each
Dr Structure, Point.....	Each
Dr Structure, Temp Lowering, Modified .....	Each

Measure **Dr Structure, Cleaning, Modified**; **Dr Structure, Point**; and **Dr Structure, Temp Lowering, Modified** individually in place by their respective units each and pay for them at their respective contract unit prices, which prices include the costs for all labor, equipment and materials necessary to complete the work.

CITY OF ANN ARBOR  
 DETAILED SPECIFICATION  
 FOR  
**AGGREGATE BASE**

AA:DAD/AMW

1 of 1

01/17/2024

**a. Description.** This work consists of constructing an aggregate base course on a surface approved by the Engineer using only crushed limestone. The aggregate base shall be in accordance with City Standards and section 302 of the 2020 Michigan Department of Transportation (MDOT) Standard Specifications for Construction, except as herein modified:

**b. Material.** Provide aggregate material meeting the requirements for Class 21AA dense-graded aggregate in accordance with City Standards and specified in section 902 of the MDOT 2020 Standard Specifications for Construction. The ONLY permitted material shall be crushed limestone unless otherwise approved by the Engineer.

**c. Construction.** Construct aggregate base course in accordance with City Standards and subsection 302.03 of the 2020 MDOT Standard Specifications for Construction. Deliver Class 21AA dense-graded aggregate to the job site in a thoroughly blended condition and handle in such a manner that there will be no mixing of underlying soil with the base aggregate.

**d. Measurement and Payment.** Measure and pay for the completed work, as described, at the contract unit price using the following pay item:

<u>Pay Item</u>	<u>Pay Unit</u>
Aggregate Base Course, 21AA, CIP .....	Ton

Measure **Aggregate Base Course, 21AA, CIP** weight by the unit ton and pay for it at contract unit price, which price includes costs for all labor, equipment, and materials necessary to complete the work. Load weight tickets from a certified scale and accepted at the job site by the City's agent will be the basis for measurement.

Weigh any/all unused/waste material on a certified scale to determine quantity(s) unless the Engineer approves an alternate method to arrive at these amount(s). Provide load weight tickets to the City's agent for any/all unused/waste material.



CITY OF ANN ARBOR  
 DETAILED SPECIFICATION  
 FOR  
**CONCRETE DRIVEWAY APPROACH**

AA:NJB

1 of 1

01/17/24

**a. Description.** This work consists of constructing concrete driveway approaches of the types as indicated on the plans in accordance with 2024 AA Standard Details. All work shall be in accordance with Article 6 Drive Approaches, Active Transportation Facilities, & Lawn Extensions, except as modified herein.

**b. Materials.** Provided materials meeting the requirements specified in 2024 AA Standard Specifications Article 6 (Drive Approaches...) 1, B (Materials)

Use Concrete MDOT Grade 3500 for most cases, and MDOT P-NC Concrete for High Early Use MDOT 21 AA Dense-graded aggregate for 6-inch base material.

The Contractor is solely responsibility for providing specific concrete mix designs and submitting them to the Engineer for approval 5 day prior to the placement of the concrete.

**c. Construction Methods.**

Place concrete on a minimum of 6 inches of 21AA Aggregate base compacted to 95% of its maximum dry density unless otherwise directed by the Engineer.

Preparing the subbase grade; excavation or fill shall be paid for separately under "Machine Grading, Sidewalk, Ramp & Driveway Approach"

Prior to placing any concrete clean existing concrete with compressed air and coarse brush to remove any friable material on the abutting concrete.

**d. Measurement and Payment.** Measure and pay for the completed work, as described, at the respective contract unit prices using the following respective pay items:

<u>Pay Item</u>	<u>Pay Unit</u>
Driveway, Nonreinf Conc, 6 inch, Modified .....	Square Yard
Driveway, Nonreinf Conc, 8 inch, Modified .....	Square Yard
Driveway, Nonreinf Conc, 8 inch, High Early Modified.....	Square Yard

Measure **Driveway, Nonreinf Conc, \_ inch, Modified** areas in place by the unit square yard and pay for them at their respective contract unit prices, which prices include the costs for all labor, equipment, aggregate base, concrete, curing compound, forms and materials to complete the work.

Saw cutting is not a separate contract pay item, and payment for this work will be included in the appropriate item of work for which it applies. The Contractor shall include any/all costs for saw cutting to place concrete driveways, sidewalk and sidewalk ramps in the respective contract unit price.

CITY OF ANN ARBOR  
 DETAILED SPECIFICATION  
 FOR  
**CONCRETE SIDEWALK**

AA:NJB

1 of 2

02/02/24

**a. Description.** This work consists of constructing concrete sidewalk and ramps in accordance with 2024 Standard Specifications Article 10 (Construction Specifications), Section III (Street Construction and Repair), H (Concrete Curb & Gutter, Sidewalk and Drive Construction), and Article 12 (Standard Details) SD-DS-4 (Sidewalk and Curb and Gutter Joints) and MDOT 2020 Standard Specifications, Ramp Detail R-28, except as modified herein.

**b. Materials.** Provided materials meeting the requirements specified in 2024 AA Standard Specifications Article 6 (Drive Approaches...) 1, B (Materials)

- Use Concrete MDOT Grade 3500
- Use MDOT 21 AA aggregate for 6-inch base material.
- Use MDOT Class II granular material for 4-inch base material.

The Contractor is solely responsibility for providing specific concrete mix designs and submitting them to the Engineer for approval 5 day prior to the placement of the concrete.

**c. Construction Methods.**

For 4-inch Concrete sidewalk place a minimum of 4 inches of Class II granular material, at least 6-inches wider than the sidewalk, compacted to 95% of its maximum dry density unless otherwise directed by the Engineer.

For 6-inch Concrete sidewalk or ramp, place a minimum of 6 inches of MDOT 21 AA aggregate base, at least 6-inches wider than the sidewalk or ramp, compacted to 95% of its maximum dry density unless otherwise directed by the Engineer.

Preparing the subbase grade; excavation or fill shall be paid for separately under “Grading, Sidewalk, Ramp & Driveway Approach”. If at the opinion of the Engineer the existing base material will support the proposed grades and is of sufficient width depth and density, the existing material may remain and the new concrete place on top.

Prior to placing any concrete clean existing concrete with compressed air and coarse brush to remove any friable material on the abutting concrete.

**d. Measurement and Payment.** Measure and pay for the completed work, as described, at the respective contract unit prices using the following respective pay items:

<u>Pay Item</u>	<u>Pay Unit</u>
Conc, Sidewalk, 4 in.....	Square Feet
Conc, Sidewalk or Ramp, 6 inch .....	Square Feet

Measure **Conc, Sidewalk, 4 inch** areas in place by the unit square feet and pay for them at their respective contract unit prices, which prices include the costs for all labor, equipment,

Class II granular base, compaction effort, concrete, curing compound, forms and materials to complete the work.

Measure **Conc, Sidewalk or Ramp, 6 inch** areas in place by the unit square feet and pay for them at their respective contract unit prices, which prices include the costs for all labor, equipment, MDOT 21 AA aggregate base, compaction effort, concrete, curing compound, forms and materials to complete the work.

Saw cutting is not a separate contract pay item, and payment for this work will be included in the appropriate item of work for which it applies. The Contractor shall include any/all costs for saw cutting to place concrete driveways, sidewalk and sidewalk ramps in the respective contract unit price.

CITY OF ANN ARBOR  
DETAILED SPECIFICATION  
FOR  
**FLOWABLE FILL**

AA:NJB

1 of 1

01/17/2024

**a. Description.** This work consists of furnishing and placing flowable fill material as backfill between new and/or replacement curb and gutter and the existing pavement and at other miscellaneous locations as shown on the plans, and as directed by the Engineer.

**b. Materials.** Provide flowable fill material, as directed by the Engineer, meeting one the following mixes:

- 1. Portland cement, granular material, fly ash, and water. Per the flowable fill mix design number two included in the 2024 AA Standard Specifications Article 5 (Streets), Section II.P. (Flowable Fill).

**c. Construction.** Furnish and place flowable fill material as directed by the Engineer.

The Contractor shall provide all necessary materials and appurtenances to ensure proper placement of flowable fill. All flowable fill, after setting, should be capable of removal by conventional mechanical excavation methods.

**d. Measurement and Payment.** Measure and pay for the completed work, as described, at the contract unit price for the following pay item:

<u>Pay Item</u>	<u>Pay Unit</u>
Flowable Fill .....	Cubic Yard

Measure **Flowable Fill** volume in place by the unit cubic yard and pay for it at the contract unit price, which price includes the cost for all labor, equipment and materials necessary to complete the work.

The Engineer will not pay for any flowable fill used at the Contractor's option.

CITY OF ANN ARBOR  
DETAILED SPECIFICATION  
FOR  
**HOT MIX ASPHALT (HMA) PAVING**

AA:DAD/AMW

1 of 3

01/15/2024

**a. Description.** This work consists of constructing hot mix asphalt (HMA) pavement base, leveling, and top courses in accordance with section 501 of the Michigan Department of Transportation (MDOT) 2020 Standard Specifications for Construction, except as modified herein, and as directed by the Engineer.

**b. Materials.** None specified.

**c. Construction.**

1. **Equipment:** All equipment shall conform to subsection 501.03.A of the MDOT 2020 Standard Specifications for Construction, except as modified herein.

The Contractor shall have a 10-foot long straight edge, rubber-tired backhoe (Case 580 type, or equivalent), air-compressor with the ability to develop a minimum pressure of 100 pounds per square inch and continuous rated capacity of 150 cubic feet per minute of airflow, and jackhammer available during all paving operations. The Contractor shall be required to perform any miscellaneous cleaning, trimming, material removal, and other tasks as required by the Engineer in order to ensure the proper and orderly placement of all HMA materials on this project.

The Contractor shall provide sufficient rollers to achieve the specified asphalt densities.

At various times throughout the work, the Engineer may direct the Contractor to use smaller and/or lighter equipment, and to defer certain work tasks, in order to protect the grade and/or adjacent areas; including hauling units. The Contractor shall not be entitled to any additional compensation for the use of smaller equipment, lighter equipment, or work task deferral.

2. **Cleaning and Bond Coat Application:** Cleaning and bond coat application shall be performed in accordance with subsections 501.03.C and 501.03.D of the MDOT 2020 Standard Specifications for Construction, except as modified herein, and as directed by the Engineer.

The Contractor shall furnish and operate throughout the construction period, vacuum-type street cleaning and utility structure cleaning equipment (Vac-All, Vector, etc.) approved by the Engineer, and when directed by the Engineer, for street cleaning immediately prior to, and for street and utility structure cleaning after any and all paving. The cleaning equipment shall be of sufficient power to remove dust, dirt, and debris from the pavement and from utility structures in and adjacent to the construction area. The Engineer shall approve the vac-all or similar equipment prior to beginning the work. The equipment used shall have an effective means for preventing any dust resulting from the operation from escaping into the air.

Apply bond coat at a rate of 0.10 gallons per square yard. Before placing the bond coat, the thoroughly clean the existing pavement surface. The Contractor shall also thoroughly clean all joints, cracks, and edges to a minimum depth of one inch with compressed air, vac-all

type equipment, or other approved mechanical or hand methods, to remove all dirt, debris, and all foreign material.

3. HMA Placement: Placement shall conform to subsection 501.03.F of the MDOT 2020 Standard Specifications for Construction, except as modified herein, and as directed by the Engineer.

HMA placement shall not commence until a "Permit to Place" (no additional costs are required to obtain this permit) has been issued in writing by the Engineer. The Engineer will issue a Permit to Place after approving the aggregate base course or the adjacent, underlying layer of pavement section.

The Engineer must approve the final structure adjustments prior to the issuance of the "Permit to Place" for the top course.

Place the top course with a ¼" lip along the edge of the curb and gutter/edge of metal.

All HMA thickness dimensions are compacted-in-place.

4. Paving Operation Scheduling: The Contractor shall schedule the paving operation to avoid leaving longitudinal cold joints "open" overnight.

In all cases, the Contractor shall pave the primary road's through-traffic lanes ("main line") first, from point-of-beginning to the point-of-ending. All other paving including, but not limited to; acceleration and deceleration lanes, intersection approaches, and center left-turn lanes shall be paved following completion of main line paving, unless authorized by the Engineer prior to the placement of any pavement.

5. Rate of Paver Operation: Maintain a paving machine rate of travel so that HMA placement and paving operation is continuous; resulting in no transverse cold joints. The rate of travel; however, shall never exceed 50 feet per minute.

The Contractor shall furnish and operate enough material, equipment, and hauling units to keep the paving machine(s) moving continuously at all times. Failure to do so shall be cause for the suspension of paving operations until the Contractor can demonstrate to the satisfaction of the Engineer that it has dedicated sufficient resources to perform the work in accordance with the project specifications.

6. Longitudinal and Transverse Joints: These joints shall conform to subsection 502.03.F of the MDOT 2020 Standard Specifications for Construction, and as specified herein.

For mainline HMA paving, the width of the mat for each pass of the paver shall be not less than 10.5 feet, or greater than 15 feet, except as noted in the plans and as directed by the Engineer. The Engineer will direct the layout of all HMA longitudinal joints during construction.

7. Feather Joints – shall be constructed so as to vary the thickness of the HMA from zero inches to the required paving thickness at the rate of approximately 1.5" over a distance of 10 feet, or as directed by the Engineer. The Contractor shall rake the larger pieces of aggregate out of feather joints prior to compaction.

8. **Butt Joints:** Construction of butt joints, where directed by the Engineer, shall conform to subsections 501.03.C.3 and 501.03.C.4 of the MDOT 2020 Standard Specifications for Construction, except as modified herein.

When the Engineer specifies or directs placement of a butt joint, remove the existing HMA surface to the thickness of the proposed overlay, or full-depth, as directed by the Engineer, for the full width or length of the joint. The HMA material shall be saw cut to the directed depth along the pavement edge or removal line to prevent tearing of the pavement surface. Cut joints that will be exposed in the completed surface must be cut with a saw or a cold-milling machine or other methods approved by the Engineer. Joints that will be covered by HMA must be cut with a saw, a cold-milling machine, or other methods approved by the Engineer.

9. **Rakers:** The Contractor shall provide a minimum of two asphalt rakers during the placement of all wearing and leveling courses.

10. **Faulty Mixtures:** The Contractor and Engineer shall carefully observe the paving operation for signs of faulty mixtures. The Contractor, at its sole expense, shall remove or correct points of weakness in the surface prior to paving subsequent lifts of HMA material. Such corrective action may include the removal and replacement of thin or contaminated sections of pavement, segregated HMA, and any sections that are weak or unstable. Once the Contractor or his representative is notified by the Engineer that the material being placed is out of allowable tolerances, or that there is a problem with the paving operation, the Contractor shall stop the paving operation at once, and shall not be permitted to continue placing HMA material until again authorized by the Engineer. The Engineer will not pay for separately any costs associated with meeting the above requirements, and will include them in the HMA work item(s) the Contractor was performing at the time of discovery of the faulty mixture.

**d. Measurement and Payment.** The contract includes no separate pay items for measurement and payment of the costs associated with meeting the requirements of this detailed specification. The Contractor shall include these costs in the unit prices bid for the HMA items in the contract.

The Contractor shall return any/all trucks to the plant with unused HMA remaining after the work is complete, and these trucks shall be re-weighed and the corrected weight slip provided to the Engineer. There will no payment any unused HMA material. All weight slips must include the type of mixture (codes are not acceptable), as well as vehicle number, gross weight, tare weight and net weight.

CITY OF ANN ARBOR  
 DETIALED SPECIFICATION  
 FOR  
**HMA, SOIL EROSION WEDGE**

AA:NJB

1 of 1

01/17/2024

**a. Description.** This work consists of constructing hot mix asphalt (HMA) wedge placed longitudinally along the edge of pavement to mitigate soil erosions at other location(s) as directed by the Engineer, and as described herein.

**b. Materials.** Provide materials in accordance with section 501 of the Michigan Department of Transportation (MDOT) 2020 Standard Specifications for Construction. Use the same MDOT mixture being placed for the wearing course.

**c. Construction.** The HMA wedge can be placed by the paver by adjusting the wing and guards or by hand while the wearing course is still hot. The wedge shall have an approximate dimension of 12-inch width and be tapered 0 to 3-inch in height. The highest point being at the edge of pavement. The HMA soil erosion wedge shall taper down to match existing driveway elevations. Hand compacting effort and small tools shall be used to consolidate the HMA without deforming the wedge.

**d. Measurement and Payment.** Measure and pay for the completed work, as described, at the contract unit price for the following pay item:

<u>Pay Item</u>	<u>Pay Unit</u>
HMA, Soil Erosion Wedging .....	Foot

Measure **HMA, Soil Erosion Wedging** by linear foot installed, for each foot being installed. The weight of the HMA tons used will be paid for separately under the HMA 5EL Tonnage pay item. This unit price includes compensation for all labor and equipment cost necessary to complete the work including placement and hand compaction.



CITY OF ANN ARBOR  
DETAILED SPECIFICATION  
FOR  
**HMA, WEDGING**

AA:DAD/AMW

1 of 1

01/15/2024

**a. Description.** This work consists of constructing hot mix asphalt (HMA) finish wedges at drive approaches, sidewalk ramps, and any other location(s) directed by the Engineer, and as described herein.

**b. Materials.** Provide materials in accordance with section 501 of the Michigan Department of Transportation (MDOT) 2020 Standard Specifications for Construction. Use MDOT mixture approved by the Engineer.

**c. Construction.** Perform work in accordance with section 501 of the MDOT 2020 Standard Specifications for Construction, and as directed by the Engineer.

**Complete all finish wedging within two days of placing the top course pavement.**

Have a 10-foot long straight-edge, backhoe, air-compressor, and jackhammer available during all paving operations.

Use finish wedges to provide good vertical and horizontal transitions between old and new construction, to eliminate areas of standing water in the top coarse surface and to provide for positive drainage.

Construct joints by feathering the edges of all finish wedges (including the raking out of all large pieces of aggregate) to provide a high quality, smooth riding surface.

Clean the existing surface with compressed air and/or vacuum type street cleaning equipment prior to placement of wedging material.

Apply MDOT SS-1h bond coat on all asphalt and concrete surfaces within the wedging area at a rate between 0.05 and 0.10 gallons/square yard using a power distributor hand sprayer.

**d. Measurement and Payment.** Measure and pay for the completed work, as described, at the contract unit price for the following pay item:

<b><u>Pay Item</u></b>	<b><u>Pay Unit</u></b>
HMA, Wedging .....	Ton

Measure **HMA, Wedging** by weight in tons of the material used to perform the work and pay for it at the contract unit price, which price includes all cost for labor, equipment and materials necessary to complete the work including providing, placing and compacting the HMA mixture.

Return any/all trucks to the plant with unused HMA remaining after the work is complete. Re-weigh these trucks and provide a weight slip for this material to the Engineer. There will be no payment for any unused HMA material. All weight slips must include the type of mixture (codes are not acceptable), as well as vehicle number, gross weight, tare weight and net weight.

CITY OF ANN ARBOR  
DETAILED SPECIFICATION  
FOR  
**SIDEWALK RETAINING WALLS**

AA:DAD/AMW

1 of 4

01/15/2024

**a. Description.** This work consists of constructing concrete retaining walls adjacent to sidewalks in accordance with the requirements and special details included herein, and as directed by the Engineer.

**b. Materials.** Provide concrete Grade P-NC, unless otherwise directed by the Engineer, meeting the requirements of subsection 602.03 of the Michigan Department of Transportation (MDOT) 2020 Standard Specifications for Construction.

**c. Construction.** Construct retaining walls in accordance with special details included herein. Curb face exposure shall be 6 inches to 36 inches.

The Contractor shall excavate, cut, remove stumps, remove brush, remove pavement, grade, and trim as needed and as directed, and shall furnish, place, grade, and compact any materials needed to perform the work.

Complete all subgrade work prior to placing concrete items, unless directed or approved by the Engineer.

At locations where the subgrade, subbase or base becomes either disturbed, saturated or otherwise damaged, and where directed by the Engineer, the Contractor shall remove a minimum 6-inch thick layer of the subgrade, subbase or base, and replace it with approved 21AA Aggregate material, compacted in place.

**The Contractor shall coordinate with the City Forester prior to the removal of any tree roots 2 inches in diameter or greater.**

The Contractor shall maintain on-site at all times, a sufficient quantity of adequate materials to protect concrete items. The Engineer may suspend or defer concrete placement if rain protection is not available. The Contractor shall not be entitled to any additional compensation due to work suspension or deferral resulting from a lack of adequate rain protection.

The Contractor is responsible for any damage to concrete items, including but not limited to vandalism; vehicular, pedestrian and/or miscellaneous structural damage; surface texture damage; and rain damage.

**d. Measurement and Payment.** Measure and pay for the completed work, as described, at the contract unit price using the following pay items:

<u>Pay Item</u>	<u>Pay Unit</u>
Sidewalk Retaining Wall, Integral, 6 inch to 18 inch Height .....	Square Foot
Sidewalk Retaining Wall, Integral, 18 inch to 30 inch Height .....	Square Foot

Measure **Sidewalk Retaining Wall, Integral, \_\_ inch to \_\_ inch Height** exposed vertical face

areas in place by the unit square foot and pay for them at their respective contract unit prices, which prices include the costs for all labor, equipment and materials necessary to complete the work.

The Engineer will pay for separately all sidewalk work performed adjacent to any retaining wall.





CITY OF ANN ARBOR  
DETAILED SPECIFICATION  
FOR  
**PROTECTING AND PRESERVING IRRIGATION SYSTEMS**

AA:DD/AMW

1 of 2

01/23/24

- a. **Description.** This work shall consist of all labor, materials, and equipment necessary to investigate, locate, save and protect from damage, ensure continued and proper operation during the performance of the project work, re-establish operation as necessary, and, upon completion of all project work, ensure that all existing sprinkler systems located within the project limits, or those affected by the project, are functioning in a satisfactory manner as determined by the Engineer.
- b. **Materials.** None specified.
- c. **Construction.** The Contractor shall be aware that properties located within the project limits have underground sprinkler systems that irrigate both private property and portions of the public right-of-way. The irrigation systems have been installed by a variety of private installers and may utilize several different materials and/or suppliers of the various components. Portions of the existing irrigation systems have been installed under paved areas, extend into landscaped islands, or may be required to be located within such areas at the conclusion of the project's construction.

The Contractor shall perform the necessary investigations to determine the precise location of the irrigation systems and all affected components prior to the commencement of construction operations. The Contractor shall determine all impacts to the systems that will result pursuant to the project's construction and take all necessary actions to ensure that the sprinkler systems will remain functional during the project's construction. The Contractor shall re-establish the sprinkler systems in such a manner at appropriate intermediate and final project milestones that the original functionality of the system is maintained to the greatest extent possible.

The Contractor shall contact all property owners prior to the commencement of the work to determine the impacts to their irrigation systems and coordinate with them to ensure satisfactory operation of the irrigation systems during construction.

All work shall be approved by the Engineer and the affected property owner(s) at the conclusion of the project's work.

This is an allowance type item. This allowance is not for solving problems caused by the Contractor's neglect, errors, omissions, or other deeds of the Contractor's own fault. Protecting existing irrigation systems where it is not necessary to remove it to complete the work is included in the contract unit price for the pay item General Conditions, Max \$\_\_\_\_\_.

The Contractor is required to present a detailed scope of work and detailed costs for any work contemplated under the irrigation system allowance to the Engineer. No work is to begin until scope and costs have been finalized and approved by the Engineer in writing.

Thereafter, if the approved price for this work is more or less than the allowance amount in the Contract, the Contract Price shall be adjusted accordingly by Change Order. The payment shall be made on the basis of the actual approved amount without additional charge or markups for overhead, insurances, bonds, or any other incidental expenses. The Contractor shall be responsible for all coordination involved and for the timely completion of the work to

CITY OF ANN ARBOR  
DETAILED SPECIFICATION  
FOR  
**PROTECTING AND PRESERVING IRRIGATION SYSTEMS**

AA:DD/AMW

2 of 2

01/23/24

fit their schedule.

**d. Measurement and Payment.** The completed work, as described, will be measured, and paid for at the approved price for the following pay item:

**Pay Item**

**Pay Unit**

Irrigation System, Protection and Maintenance, Allowance .....Dollar

The approved price for this item shall include all labor, material, and equipment costs required to complete the work.



# CITY OF ANN ARBOR ENGINEERING

## 2024 ANNUAL RESURFACING

**NOTES:**

FOR PROTECTION OF UNDERGROUND UTILITIES AND IN CONFORMANCE WITH PUBLIC ACT 174 OF 2013, THE CONTRACTOR SHALL CALL 811 OR 1-800-482-7171 A MINIMUM OF THREE FULL WORKING DAYS, EXCLUDING SATURDAYS, SUNDAYS, AND HOLIDAYS, PRIOR TO BEGINNING EACH EXCAVATION IN AREAS WHERE PUBLIC UTILITIES HAVE NOT BEEN PREVIOUSLY LOCATED. MEMBERS WILL THUS BE ROUTINELY NOTIFIED. THIS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF NOTIFYING UTILITY OWNERS WHO MAY NOT BE A PART OF THE "MISS DIG" ALERT SYSTEM.

THE UNDERGROUND LOCATIONS SHOWN FOR NATURAL GAS, TELEPHONE, ELECTRICAL POWER, CABLE TV AND FIBER OPTIC LINES ARE APPROXIMATE. THE CITY OF ANN ARBOR ASSUMES NO RESPONSIBILITY FOR THEIR ACCURATE REPRESENTATION IN THIS DRAWING. MISS DIG MUST BE CONTACTED PRIOR TO CONSTRUCTION TO LOCATE THESE UTILITIES.

THE CONSTRUCTION COVERED BY THESE PLANS SHALL CONFORM TO THE CITY OF ANN ARBOR PUBLIC SERVICES AREA DESIGN STANDARDS AND CONSTRUCTION SPECIFICATIONS ("STANDARDS"). THE OMISSION OF ANY STANDARD DETAIL DOES NOT RELIEVE THE CONTRACTOR OF THEIR OBLIGATION TO CONSTRUCT ITEMS IN COMPLETE ACCORDANCE WITH THOSE STANDARDS.



01	ADDENDUM 1	2/13/24	CE	NB	CHECKED
00	BID SET	1/25/24	CE	NB	DRAWN
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CITY OF ANN ARBOR  
PUBLIC SERVICES  
301 EAST HURON STREET  
ANN ARBOR, MI 48106-8647  
www.a2gov.org

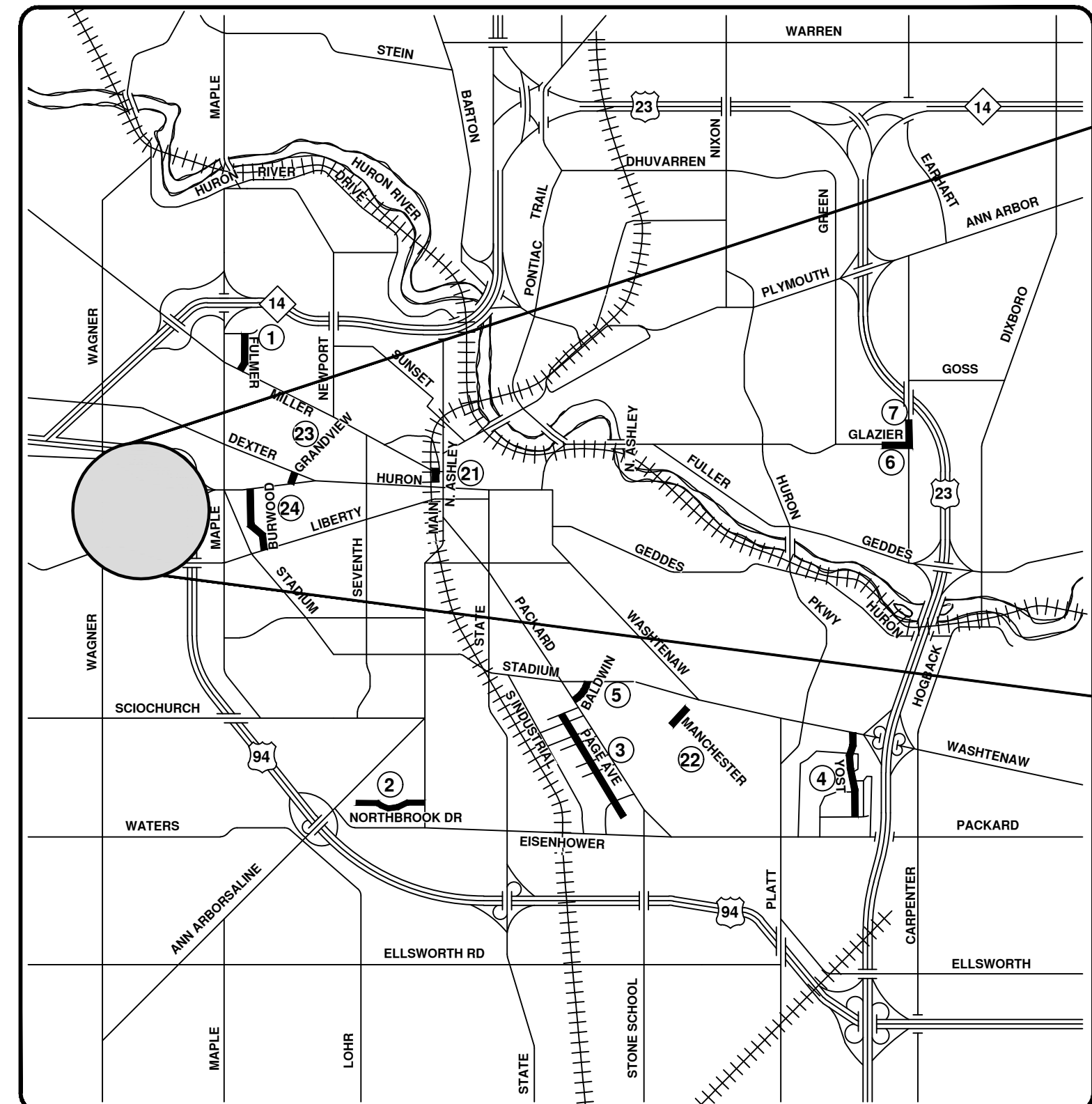
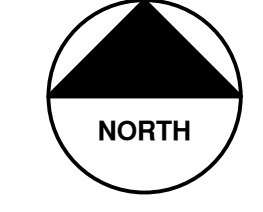


CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING  
2024 ANNUAL RESURFACING  
1 - COVER SHEET  
DRAWING No. 2024004-1

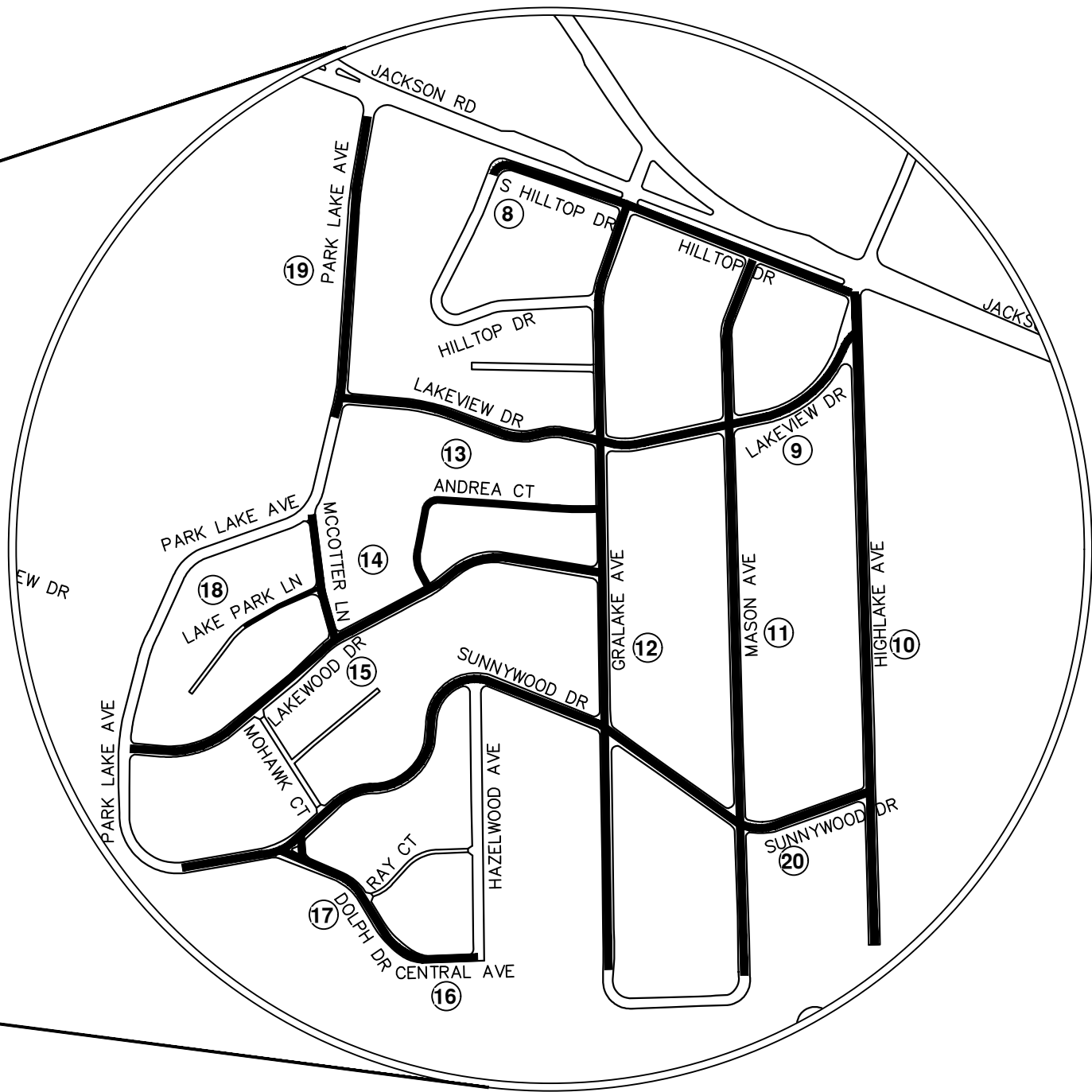
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SHEET INDEX		
SHEET NUMBER	TITLE	MAP INDEX NO. (THIS SHEET)
1	COVER SHEET	
2	STANDARD NOTES	
3	SESC NOTES AND DETAILS	
4	CONCRETE SPEED HUMP DETAIL	
5	CONCRETE RAISED INTERSECTION	
6	LOCAL TRAFFIC CONTROL	
7	ANDREA CT.	13
8	BURWOOD AVE.	24
9	CENTRAL AVE.	16
10	DOLPH DR.	17
11	GRALAKE AVE.	12
12	HIGHLAKE AVE.	10
13	HILLTOP DR.	8
14	LAKE PARK LN.	18
15	LAKEVIEW DR.	9
16	LAKEWOOD DR.	15
17	MASON AVE.	11
18	MCCOTTER DR.	14
19	N. ASHLEY ST.	21
20	NORTHBROOK AVE.	2
21	PARKLAKE AVE.	19
22	PAGE AVE.	3
23	SUNNYWOOD DR.	20
24	YOST BLVD.	4
25	EARHART SHARED USE PATH	7
26	GLAIZERWAY SHARED USE PATH	6
27	FULMER ST TRAFFIC CALMING	1
28	BALDWIN AVE TRAFFIC CALMING	5
29	MANCHESTER RD. TRAFFIC CALMING	22
30	GRADVIEW DR. TRAFFIC CALMING	23

RFP-24-04, FILE No. 2024004



VICINITY MAP





**CONSTRUCTION NOTES:**

- Driveways and entrances to buildings, real property, and the like shall not be blocked except for short durations and only when approved by the Engineer. Vehicular and pedestrian access shall be maintained at all times. It shall be the Contractor's responsibility to coordinate all necessary driveway closures with the property owner(s) and resident(s) in the areas of construction.
- The location and depth of all existing utilities and service leads are to be field verified by the Contractor prior to construction.
- Location and depth of utilities as depicted on the plans is approximate and shown according to the best information available. It is the Contractor's responsibility to excavate ahead and adjust depth of conflict utilities accordingly. Any damage to utilities is the Contractor's responsibility to avoid and/or repair as necessary.
- The Contractor is to take special care to protect the existing water main and be responsible for maintaining consistent water service.
- During non-working hours no trench shall remain open; any open trench shall be properly secured with protective fencing. This work shall be included in the item of work "General Conditions".
- Trenches for new water services shall be excavated to MIOSHA and City of Ann Arbor Public Works requirements.
- City of Ann Arbor Public Works will install the corporation and copper service lead(s) to transfer the connection(s). If an existing water service is found to be failing or is not copper, the lead will be replaced to the curb box by Public Works.
- For the installation of corporations, or any other related activities, the Contractor shall not receive additional compensation for delays due to the scheduling of or coordination with the City of Ann Arbor Public Works.
- "No Parking" signs shall be installed by the Contractor at locations as approved or directed by the Engineer. All signs shall be installed in accordance with the detailed specifications.
- Postal delivery and refuse pickup service shall be maintained at all times by the Contractor.
- Where street curbs are undermined due to construction activities, they shall be removed and replaced as directed by the Engineer.
- The Contractor shall be responsible for the continuous maintenance of the temporary road surface and soil erosion control measures within the construction area until the full completion of the project. This work shall be included in the item of work "General Conditions".
- All curb, sidewalk, driveway approach removals shall be approved by Engineer before the work is done.
- The location of material stock piles and on-site staging areas to be approved by the Engineer.
- For mainline paving, the width of the mat for each pass of the paver shall be not less than 10.5' or greater than 15', as directed by the Engineer. The Engineer will direct the layout of the longitudinal joints during construction.
- All structures receiving new castings as directed by the Engineer, as specified on the standard casting schedule. The existing castings are the property of the City of Ann Arbor. The Contractor shall deliver to City of Ann Arbor Public Works Facility at the W.R. Wheeler Service Center located at 4251 Stone School Road.
- Payment for drainage structure sumps, where specified, shall be included in the payment for the various drainage structure sizes and or types.
- Where sewer pipes of different sizes or materials are joined, Fernco flexible couplings with stainless steel shear rings shall be used. The Contractor's purchase price for these devices, including shipping, shall be paid as an extra. Prior to payment for this item, the Contractor shall submit receipts for the Engineer's review and approval. All other costs associated with the installation of these devices shall be included in the payment for the sewer.
- Where sewer and water main are to be removed & replaced or added, all pipe shall be installed using Trench Detail detailed in the specifications or shown on Plans. Backfill for sewer and water construction shall be MDOF Granular Material, Class II, Modified.
- Existing street name, guide, and regulatory signs, and mailboxes which conflict with the proposed construction shall be removed prior to construction, stored in a manner which will prevent damage, and re-set in locations as directed by the Engineer. This work will not be paid for separately, but shall be included in "General Conditions, Max \$\_\_\_\_\_".
- In areas where edge drain cannot be installed in accordance with Typical Edge Drain Trench SD-TD-4, the edge drain shall be installed at the depth as indicated on the plans, or as directed by Engineer. In no case shall the edge drain be installed at a grade less than 0.50% or at a depth of less than 2' below top of proposed pavement.

HMA APPLICATION ESTIMATE					
PAY ITEM	HMA MIX	RATE OF APPLICATION	THICKNESS (INCHES)	BINDER	NOTES
<b>LOCAL ROADS</b>					
HMA, 5EL	5EL	220 LB/SYD	2.0000	PG 58-28	TOP COURSE
HMA, 5EL	5EL	220 LB/SYD	2.0000	PG 58-28	LEVELING COURSE
HMA, WEDGING	5EL	VARIES	0-3	PG 58-28	DRIVEWAY APPROACH FEATHERING
HAND PATCHING	5EL	Max, 330 LB/SYD	Max 3	PG 58-28	HAND PATCHING
<b>MAJOR ROADS</b>					
HMA, 5EML	5EML	220 LB/SYD	2.0000	PG 64-22	TOP COURSE
HMA, 5EML	5EML	220 LB/SYD	2.0000	PG 64-22	LEVELING COURSE
"ASPHALT EMULSION"	LTBC-2	"0.05 - 0.15 GAL/SYD"			INCLUDE IN COST OF HMA ITEM

Seed Mix		
MDOT Code		Rate
TUF	Urban Freeway	220 lbs/Ac
See Table 917-2 below for seed species breakdown		

**Table 917-2:  
Seed Mixtures**

Species	Minimum Purity (%)	Germination (%)	Seed Mixture Proportions (% by weight)							TSM 6-24 months	TSM >24 months
			TDS	THV	TUF	TGM	THM	CR			
Kentucky blue grass	98	85	5	15	10	10	30	—	—	—	
Perennial ryegrass	96	85	25	30	20	20	20	—	50	50	
Hard fescue	97	85	25	—	20	30	—	—	—	—	
Creeping red fescue	97	85	45	45	40	40	50	—	—	—	
Fulfs salt grass	98	85	—	10	10	—	—	—	—	—	
Cereal rye	85	85	—	—	—	—	—	100	—	—	
Spring oats	85	85	—	—	—	—	—	—	50	50	

CR = cereal rye  
TDS = turf dry sandy  
TGM = turf medium to heavy soil  
THM = turf loamy to heavy

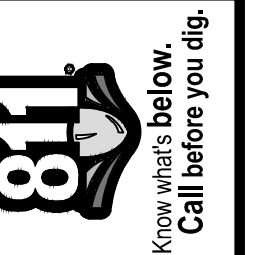
THV = turf heavy soil  
TSM = temporary seeding (months)  
TUF = turf urban freeway

**PERMITS REQUIRED TO BE OBTAINED BY THE CONTRACTOR PRIOR TO THE BEGINNING OF CONSTRUCTION.**

PERMIT	ISSUING AUTHORITY
LANE CLOSURE PERMIT*	CITY OF ANN ARBOR ENGINEERING
*NO PARKING* SIGNS PERMIT*	CITY OF ANN ARBOR ENGINEERING
GRADING/SOIL EROSION & SEDIMENTATION CONTROL PERMIT*	CITY OF ANN ARBOR CUSTOMER SERVICE
RIGHT-OF-WAY PERMIT*	CITY OF ANN ARBOR CUSTOMER SERVICE
* NO COST TO CONTRACTOR	

**CONTACT INFORMATION**

PUBLIC UTILITIES	OWNER	CONTACT
WATER	CITY OF ANN ARBOR PUBLIC WORKS W.R. WHEELER SERVICE CENTER 4251 STONE SCHOOL ROAD ANN ARBOR, MI 48108	(734) 794-6350
SANITARY		MARK MORENO (734) 794-6361
STORM		
FORESTRY		(734) 794-6550
SIGNS SIGNALS STREET LIGHTS		
FIBER OPTIC	CITY OF ANN ARBOR INFORMATION TECHNOLOGY LARCUM CITY HALL 301 E. HURON STREET ANN ARBOR, MI 48107	(734) 794-6550
PRIVATE UTILITIES	OWNER	CONTACT
GAS	DTE ENERGY 3150 E. MICHIGAN AVE, YPSILANTI TOWNSHIP, MI 48198	ROBERT CZAPIEWSKI (734) 544-7818
ELECTRIC	DTE ENERGY WESTERN WAYNE SERVICE CENTER 8001 HAGGERTY ROAD BELLEVILLE, MI 48111	ANTHONY IGNASIAK (734) 397-4447
CABLE	COMCAST 27800 FRANKLIN ROAD SOUTHFIELD, MI 48034	RON SOUTHERLAND (313) 999-8300
PHONE	AT&T 550 S. MAPLE ROAD ANN ARBOR, MI 48103	STEVEN ALLSHOUSE (734) 996-5381
FIBER OPTIC	MCI 2800 N. GLENFILLE ROAD RICHARDSON, TX 75082	DEAN BOYERS (972) 729-6016
FIBER OPTIC	WINDSTREAM 1295 S LINDEN ROAD, SUITE B FLINT, MI 48532	GREG SERICH (810) 244-3500
STREET LIGHTING	DTE ENERGY 8001 HAGGERTY ROAD BELLEVILLE, MI 48111	LANCE ALLEY (734) 397-4188



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	1/25/24	DATE	
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CITY OF ANN ARBOR  
PUBLIC SERVICES  
301 EAST HURON STREET  
P.O. BOX 8647  
ANN ARBOR, MI 48107-8647  
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**CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING**

**2024 ANNUAL RESURFACING**

2 - STANDARD NOTES

SCALE: NTS

DRAWING No. 2024004-2

SHEET No.



**GENERAL**

NOTIFY THE CITY OF ANN ARBOR SOIL EROSION CONTROL OFFICE 48 HOURS PRIOR TO BEGINNING WORK ON THE PROJECT. PHONE: 734-794-6265.

1. THE CONTRACTOR SHALL IMPLEMENT AND MAINTAIN THE SOIL EROSION CONTROL MEASURES AS SHOWN ON THE PLANS AND AS DIRECTED BY THE ENGINEER AT ALL TIMES DURING CONSTRUCTION. ANY MODIFICATIONS OR ADDITIONS TO THE SOIL EROSION CONTROL MEASURES DUE TO CONSTRUCTION OR CHANGED CONDITIONS SHALL BE AS DIRECTED AND APPROVED BY THE ENGINEER.
2. ALL SOIL EROSION AND SEDIMENTATION CONTROL WORK SHALL CONFORM TO THE PERMIT REQUIREMENTS OF THE CITY OF ANN ARBOR, THE LAWS OF THE STATE OF MICHIGAN, AND THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.
3. DAILY, OR AFTER ANY STORM EVENT, INSPECTIONS OF EROSION CONTROL MEASURES SHALL BE MADE BY THE CONTRACTOR. PERIODIC INSPECTIONS MAY BE MADE BY THE ENGINEER TO DETERMINE THE EFFECTIVENESS OF EROSION AND SEDIMENTATION CONTROL MEASURES. ANY NECESSARY CORRECTIONS SHALL BE MADE WITHOUT DELAY, AND WITHOUT ADDITIONAL COST TO THE CITY OF ANN ARBOR.
4. EROSION AND SEDIMENTATION FROM WORK ON THE SITE SHALL BE CONTAINED ON THE SITE AND NOT BE ALLOWED TO COLLECT ON ANY OFF-SITE AREAS, ROADWAYS OR WATERWAYS.
5. ALL MUD/SOIL TRACKED ONTO ROADWAYS FROM THE SITE DUE TO CONSTRUCTION, SHALL BE PROMPTLY REMOVED BY THE CONTRACTOR. IF SO ORDERED, THE CONTRACTOR SHALL PROVIDE AND OPERATE A VACUUM-TYPE STREET SWEEPER, AT NO ADDITIONAL COST TO THE CITY OF ANN ARBOR.
6. RESTORATION OF ALL DISTURBED AREAS, INCLUDING PLACEMENT OF TOPSOIL, SEED, FERTILIZER AND MULCH AND/OR SOD SHALL BE PERFORMED WITHIN FIVE (5) DAYS OF THE COMPLETION OF FINAL GRADE.
7. CONSTRUCTION OPERATIONS SHALL BE SCHEDULED AND PERFORMED SO THAT PREVENTATIVE SOIL EROSION CONTROL MEASURES ARE IN PLACE PRIOR TO EXCAVATION IN CRITICAL AREAS AND TEMPORARY STABILIZATION MEASURES ARE IN PLACE IMMEDIATELY FOLLOWING BACKFILLING OPERATIONS.
8. SPECIAL PRECAUTIONS WILL BE TAKEN IN THE USE OF CONSTRUCTION EQUIPMENT TO PREVENT SITUATIONS THAT PROMOTE EROSION.
9. PROPER DUST CONTROL SHALL BE MAINTAINED DURING CONSTRUCTION BY USE OF

WATER TRUCKS AND/OR OTHER METHODS APPROVED BY THE ENGINEER.

10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL TEMPORARY SOIL EROSION CONTROL MEASURES AND REMOVAL OF SOME MEASURES UPON AUTHORIZED COMPLETION OF THE PROJECT. FINAL COMPLETION OF PROJECT WILL NOT BE AUTHORIZED UNTIL ALL SITE WORK AND UTILITY CONSTRUCTION IS COMPLETE AND ALL SOILS ARE STABILIZED.
11. THE CONTRACTOR SHALL NOT GRADE INTO ADJACENT PROPERTIES. SILT AND PROTECTIVE FENCE SHALL BE INSTALLED AND MAINTAINED TO PREVENT GRADING, EROSION AND SEDIMENTATION INTO THE ADJACENT PROPERTIES.
12. TREE PROTECTION FENCING MUST REMAIN INTACT UNTIL RESTORATION OF THE SITE IS COMPLETE.

**SEQUENCE OF EROSION CONTROL MEASURES:**

1. THE CONTRACTOR IS TO SUBMIT TO THE ENGINEER, A SEQUENCE OF CONSTRUCTION WITH RESPECT TO THE SOIL EROSION CONTROL MEASURES FOR REVIEW, COMMENT AND APPROVAL. THIS SCHEDULE IS TO INCLUDE INSPECTION AND REPAIR OF ALL TEMPORARY EROSION CONTROL MEASURES DAILY AND WITHIN 24 HOURS OF A STORM EVENT.

**SAMPLE SOIL EROSION AND SEDIMENTATION CONTROL INSTALLATION MINIMUM REQUIREMENTS:**

- 1.1. INSTALL SILT FENCE, TREE PROTECTION FENCING, MUD MATS, INLET FILTERS ON EXISTING DRAINAGE FEATURES, AND ALL OTHER TEMPORARY SOIL EROSION CONTROLS, PRIOR TO ANY CLEARING OR EARTH MOVING OPERATION.
- 1.2. STRIP AND STOCKPILE TOPSOIL. STABILIZE STOCKPILE AS REQUIRED.
- 1.3. INSTALL WATER MAINS, STORM AND SANITARY SEWERS, AND OTHER ENCLOSED DRAINAGE FEATURES. NEW INLET FILTERS SHALL BE INSTALLED IMMEDIATELY FOLLOWING INSTALLATION OF NEW DRAINAGE INLETS.
- 1.4. PERFORM MACHINE GRADING OPERATIONS AND CONSTRUCT PAVEMENTS (MAINLINE, SIDEWALKS, DRIVES, ETC.).
- 1.5. CONTINUALLY MAINTAIN EROSION AND SEDIMENTATION CONTROL MEASURES, AS REQUIRED TO ALLOW DRAINAGE AND SEDIMENT REMOVAL. REMOVE ANY ACCUMULATED SEDIMENT IMMEDIATELY.
- 1.6. COMPLETE ALL FINE GRADING.

- 1.7. TEMPORARY SEED AND INSTALL EROSION CONTROL BLANKET IN ALL DISTURBED AREAS.
- 1.8. REFER TO LANDSCAPE PLANTING PLANS FOR PERMANENT SITE STABILIZATION.
- 1.9. CLEAN OUT STORM SEWER SYSTEMS.
- 1.10. REMEDY ANY NOTED DEFECTS TO THE SATISFACTION OF THE CITY OF ANN ARBOR'S SOIL EROSION AND SEDIMENTATION CONTROL OFFICIAL.
- 1.11. ALL TEMP. SOIL EROSION CONTROL MEASURES MUST BE REMOVED, WITH ENGINEERS APPROVAL, PRIOR TO FINAL INSPECTION

NOTE: THIS SEQUENCE IS FOR INFORMATION ONLY. IT IS INTENDED TO SHOW THE SEQUENCE OF CONSTRUCTION WITH RESPECT TO THE SOIL EROSION AND SEDIMENTATION CONTROL MEASURES. THE CONTRACTOR IS RESPONSIBLE FOR SUBMITTING THEIR OWN DETAILED CONSTRUCTION SEQUENCE AND SCHEDULE TO THE ENGINEER FOR REVIEW, COMMENT, AND APPROVAL.

**TEMPORARY SEEDING:**

1. SEED IN ACCORDANCE WITH PROJECT DRAWINGS AND SPECIFICATIONS.
2. ANY DISTURBED AREA NOT PAVED, SEEDED, MULCHED, SODDED OR BUILT UPON BY NOVEMBER 15TH OR JUNE 30TH IS TO BE TEMPORARILY STABILIZED PER SPECIFICATIONS.

THE ESTIMATED COST OF SOIL EROSION AND SEDIMENTATION CONTROL MEASURES, TOPSOIL, SEEDING, AND MULCH = \$18,000.

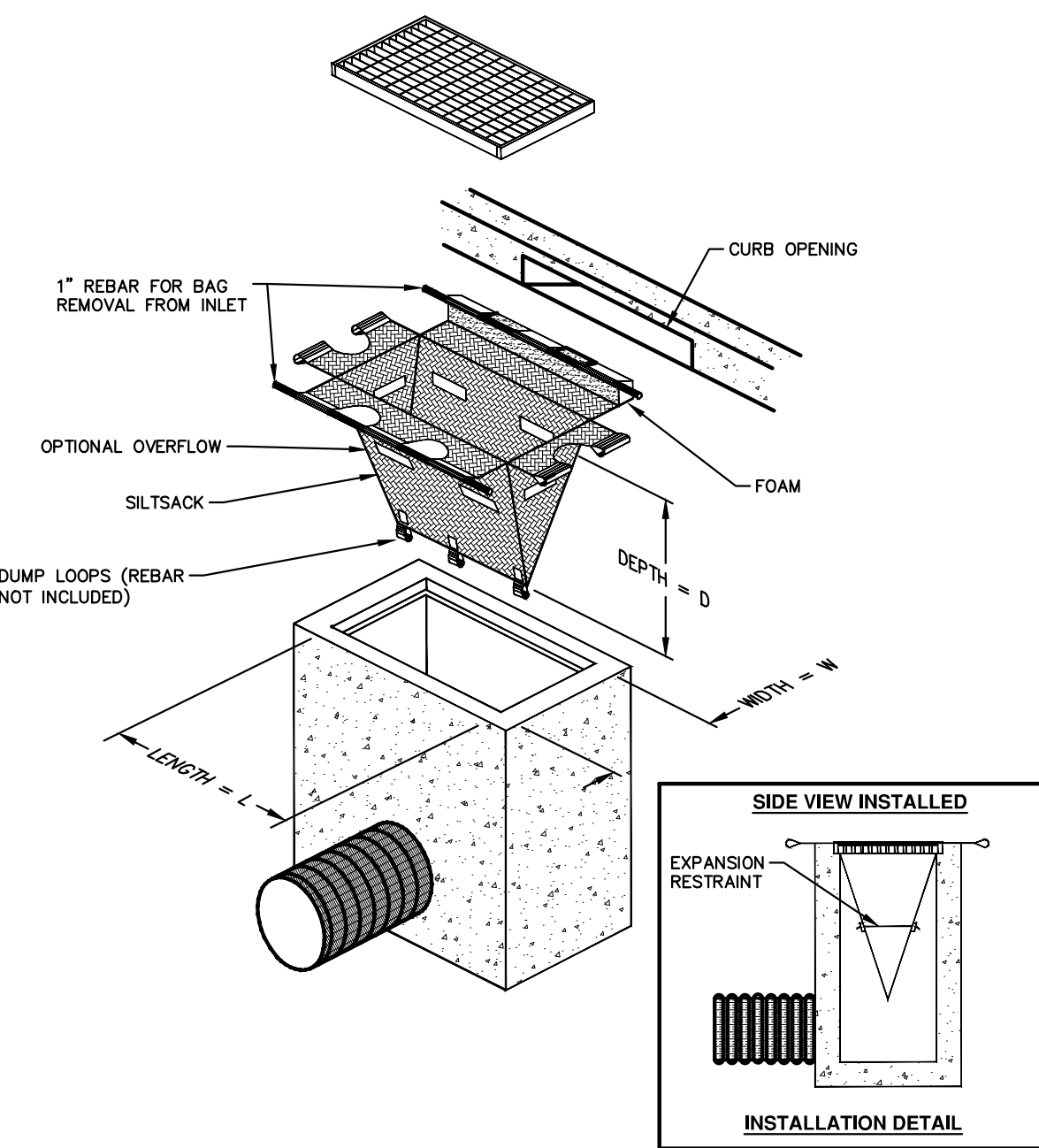
ESTIMATE OF EXCAVATION AND FILL FROM EXISTING TO FINAL GRADE:

- EXCAVATION = 0 CY, FILL = 380 CY

ON SITE SOILS PER THE USDA SOIL SURVEY OF WASHTENAW COUNTY, MICHIGAN:

- BbB - BLOUNT LOAM - 2% TO 6% SLOPES.
- CpA - CONOVER BROOKSTON LOAMS - 0% TO 2% SLOPES
- Pe - PEWAMO CLAY LOAM - 0% TO 2% SLOPES
- S1B - ST. CLAIR CLAY LOAM, 2% TO 6% SLOPES
- WcA - WAWASEE LAOM, 2% TO 6% SLOPES

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**SILTSACK DETAIL**

NOTE: THE SILTSACK WILL BE MANUFACTURED FROM A WOVEN POLYPROPYLENE FABRIC THAT MEETS OR EXCEEDS THE FOLLOWING SPECIFICATIONS.

**REGULAR FLOW SILTSACK**

(FOR AREAS OF LOW TO MODERATE PRECIPITATION AND RUN-OFF)

PROPERTIES	REQUIRED VALUE	TEST METHOD
GRAB TENSILE STRENGTH	ASTM D-4632	300 LBS
GRAB TENSILE ELONGATION	ASTM D-4632	20%
PUNCTURE	ASTM D-4833	120 LBS
MULLEN BURST	ASTM D-3786	800 PSI
TRAPEZOID TEAR	ASTM D-4533	120 LBS
UV RESISTANCE	ASTM D-4355	80%
APPARENT OPENING SIZE	ASTM D-4751	40 US SIEVE
FLOW RATE	ASTM D-4491	40 GAL/MIN/SQ FT
PERMITTIVITY	ASTM D-4491	0.55 SEC-1

**HI-FLOW SILTSACK**

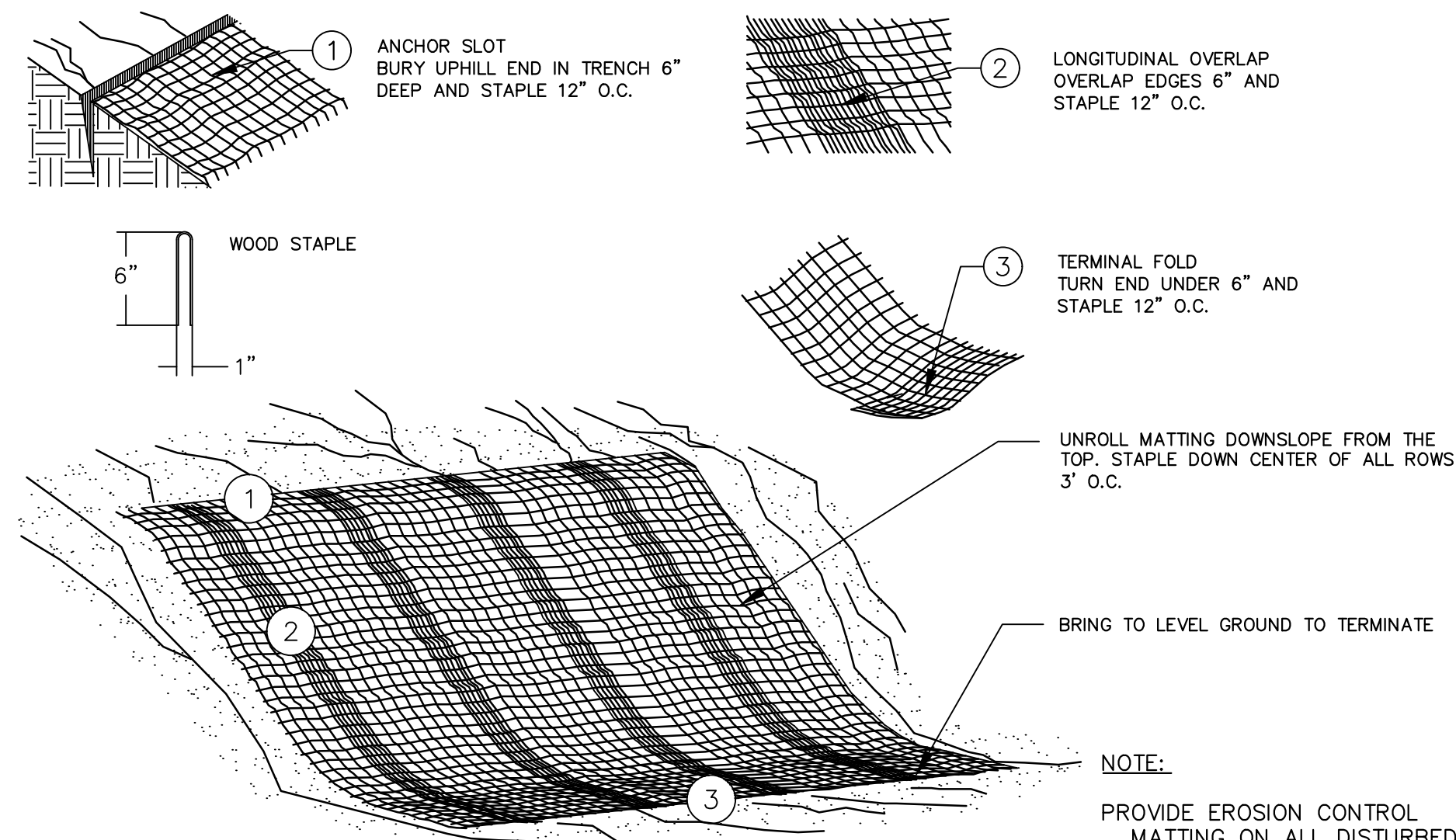
(FOR AREAS OF MODERATE TO HEAVY PRECIPITATION AND RUN-OFF)

PROPERTIES	REQUIRED VALUE	TEST METHOD
GRAB TENSILE STRENGTH	ASTM D-4632	285 LBS
GRAB TENSILE ELONGATION	ASTM D-4632	20%
PUNCTURE	ASTM D-4833	135 LBS
MULLEN BURST	ASTM D-3786	420 PSI
TRAPEZOID TEAR	ASTM D-4533	45 LBS
UV RESISTANCE	ASTM D-4355	90%
APPARENT OPENING SIZE	ASTM D-4751	20 US SIEVE
FLOW RATE	ASTM D-4491	200 GAL/MIN/SQ FT
PERMITTIVITY	ASTM D-4491	1.5 SEC-1

**OIL-ABSORBANT SILTSACK**

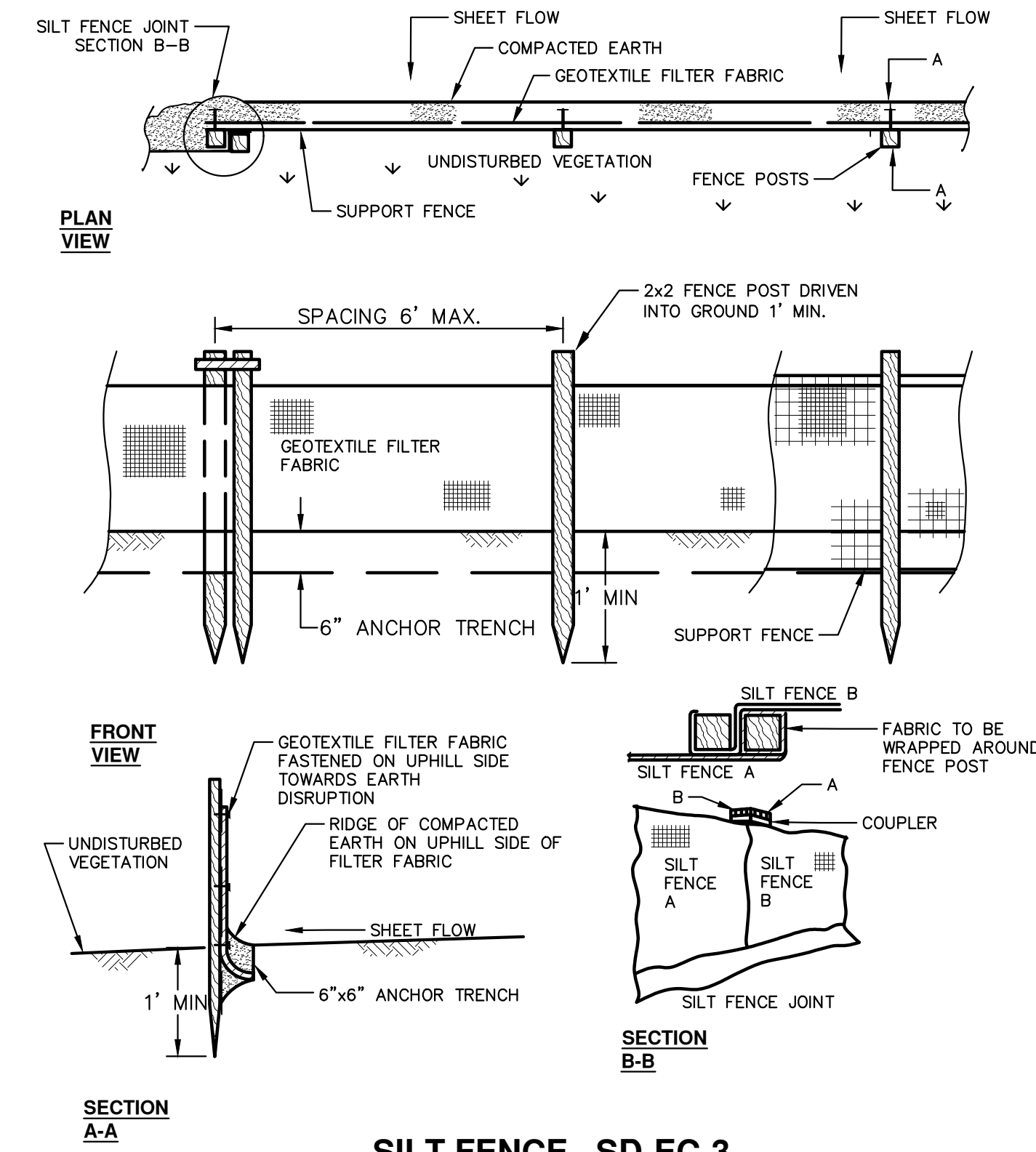
(FOR AREAS WHERE THERE IS A CONCERN FOR OIL RUN-OFF OR SPILLS)

IT IS THE INTENT OF THE PLANS AND SPECIFICATIONS THAT THE CONTRACTOR INSTALL THE REBAR AS SHOWN IN THIS DETAIL TO PROVIDE A FULLY FUNCTIONING UNIT. ALL COSTS ASSOCIATED WITH FURNISHING, CLEANING AS MANY TIMES AS REQUIRED, DISPOSAL OF SEDIMENT, AND REMOVING THE INLET FILTER WHEN NO LONGER NEEDED IS INCLUDED IN THE ITEM OF WORK AND WILL NOT BE PAID FOR SEPARATELY.



**MULCH BLANKET DETAIL**

APPLIES TO ALL AREAS TO BE PERMANENTLY RESTORED WITH GRASS. SEE LANDSCAPE PLANS FOR MORE DETAILS.

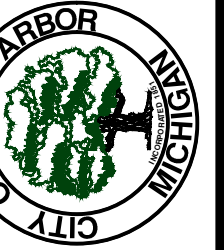


**SILT FENCE SD-EC-3**



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		2/13/24			DATE
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	00	BID SET			REV.

CITY OF ANN ARBOR  
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ANN ARBOR, MI 48106-8647  
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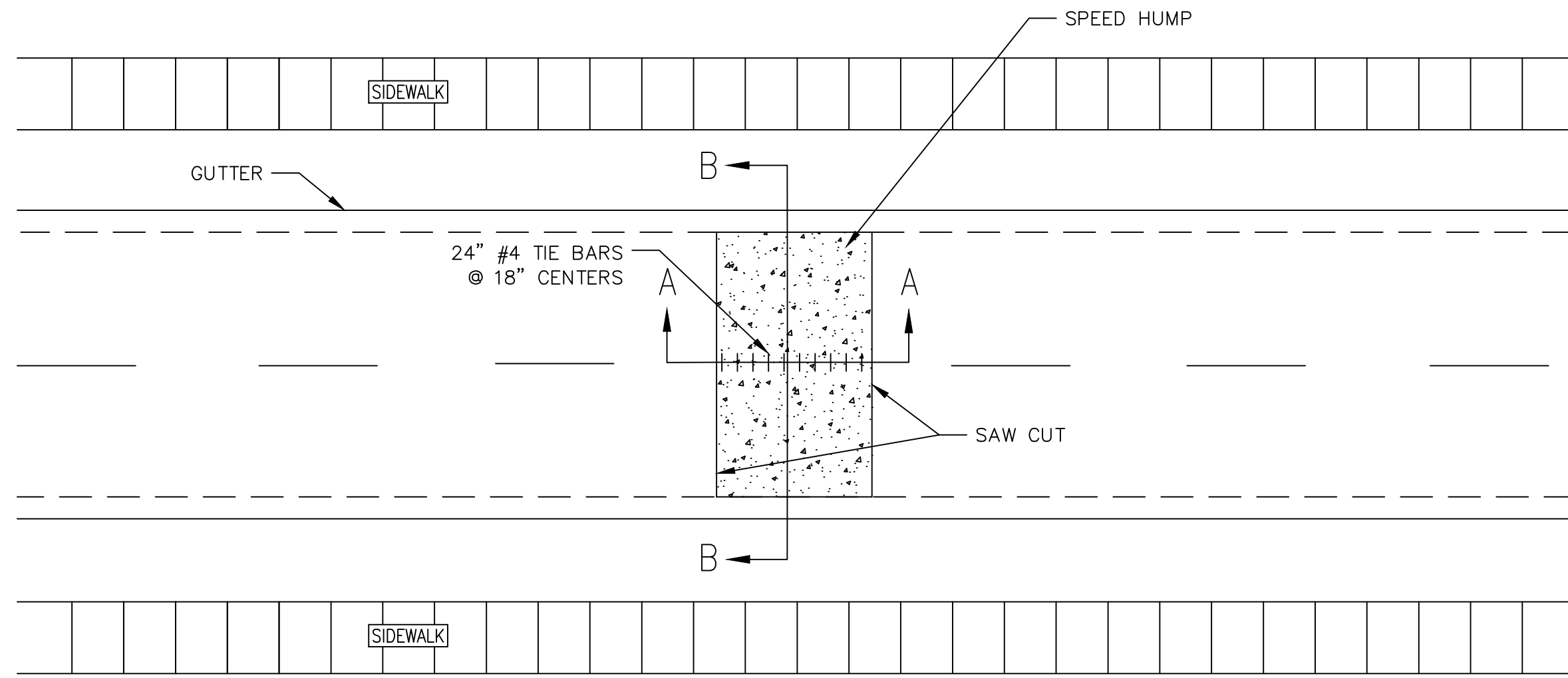
CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING  
2024 ANNUAL RESURFACING  
3 - SESC NOTES AND DETAILS

SCALE: NTS

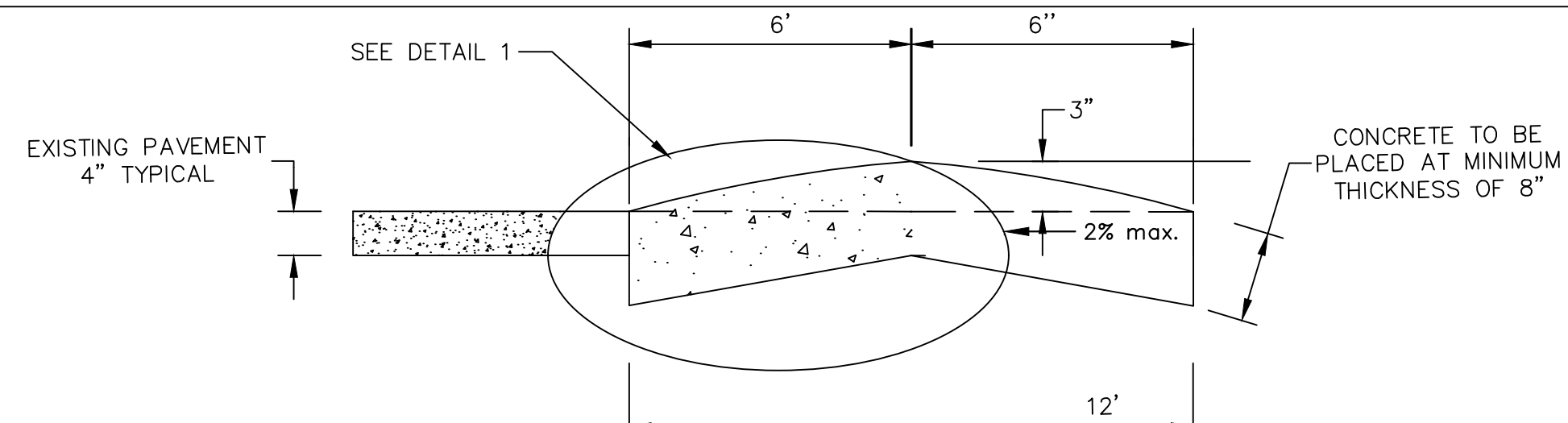
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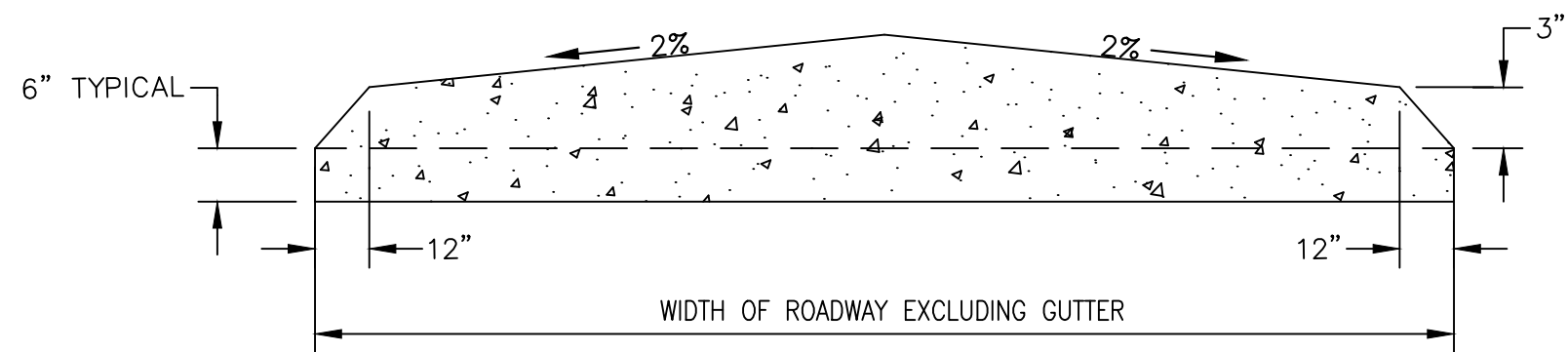
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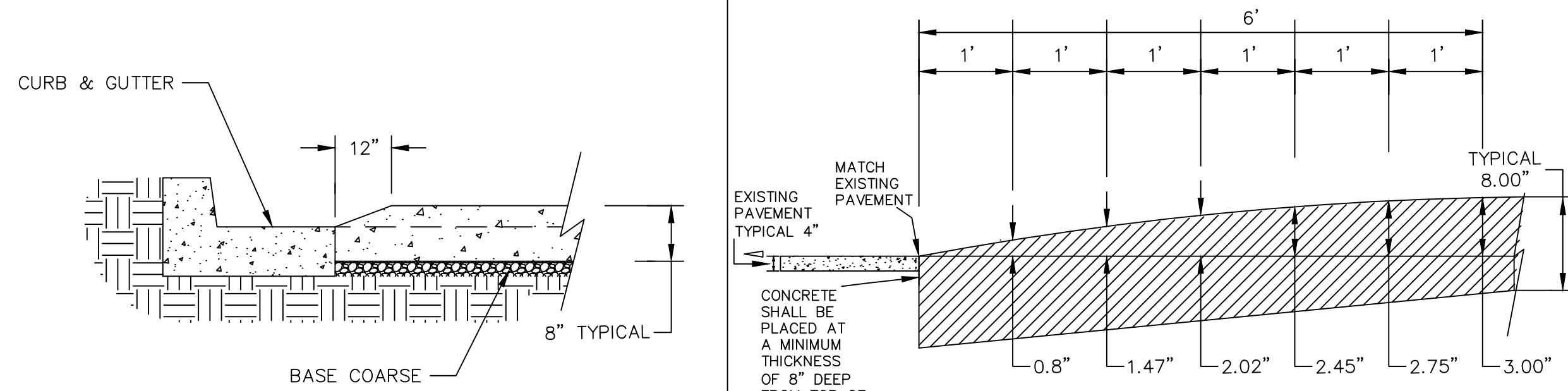
**PLAN VIEW**



**SECTION AA**



**SECTION BB**

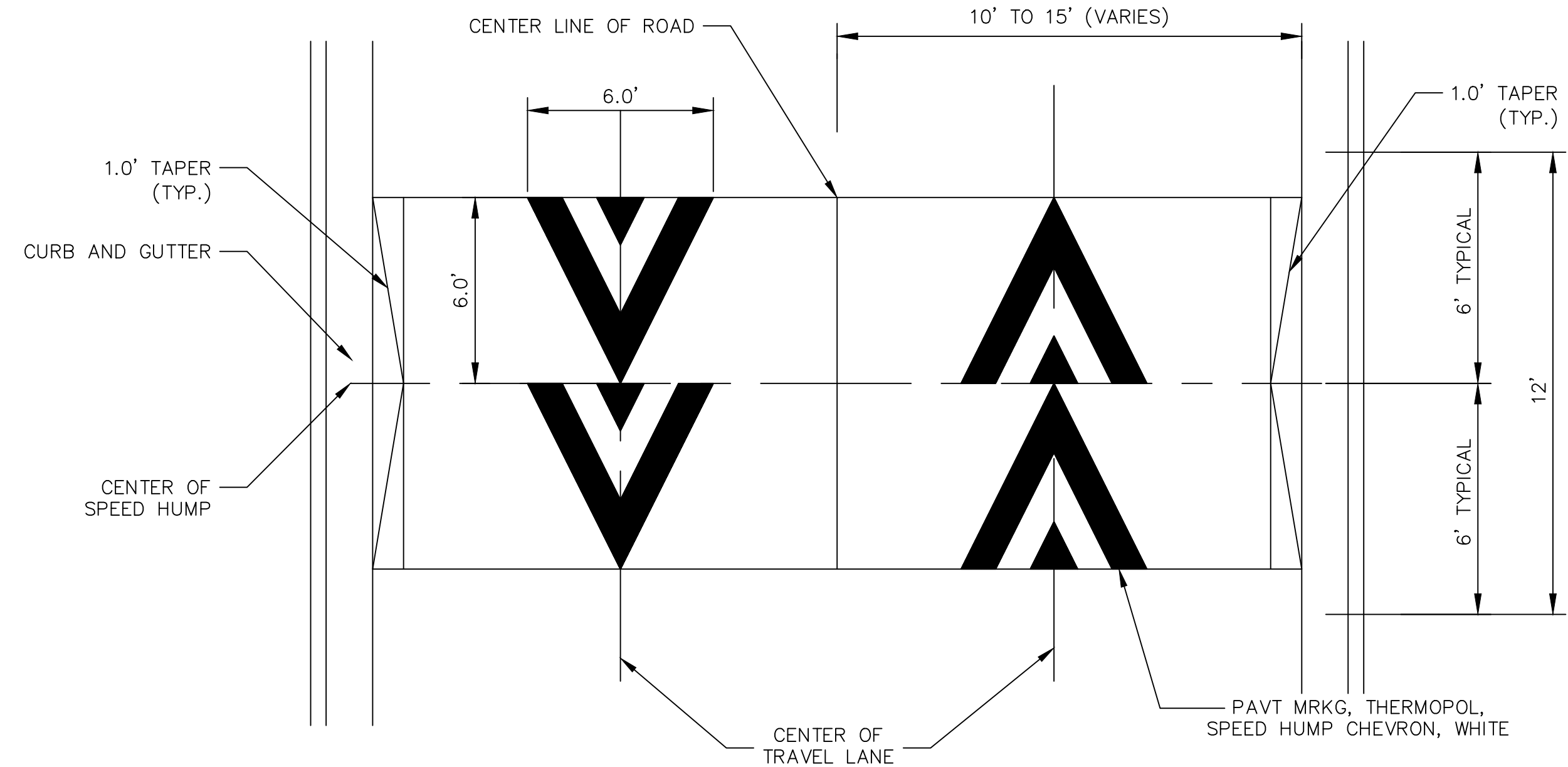


**CURB DETAIL**

**DETAIL 1**

**CONCRETE SPEED HUMP DETAIL**

SCALE: NOT TO SCALE



**PAVEMENT MARKING DETAIL**

SCALE: NOT TO SCALE



Know what's below. Call before you dig.

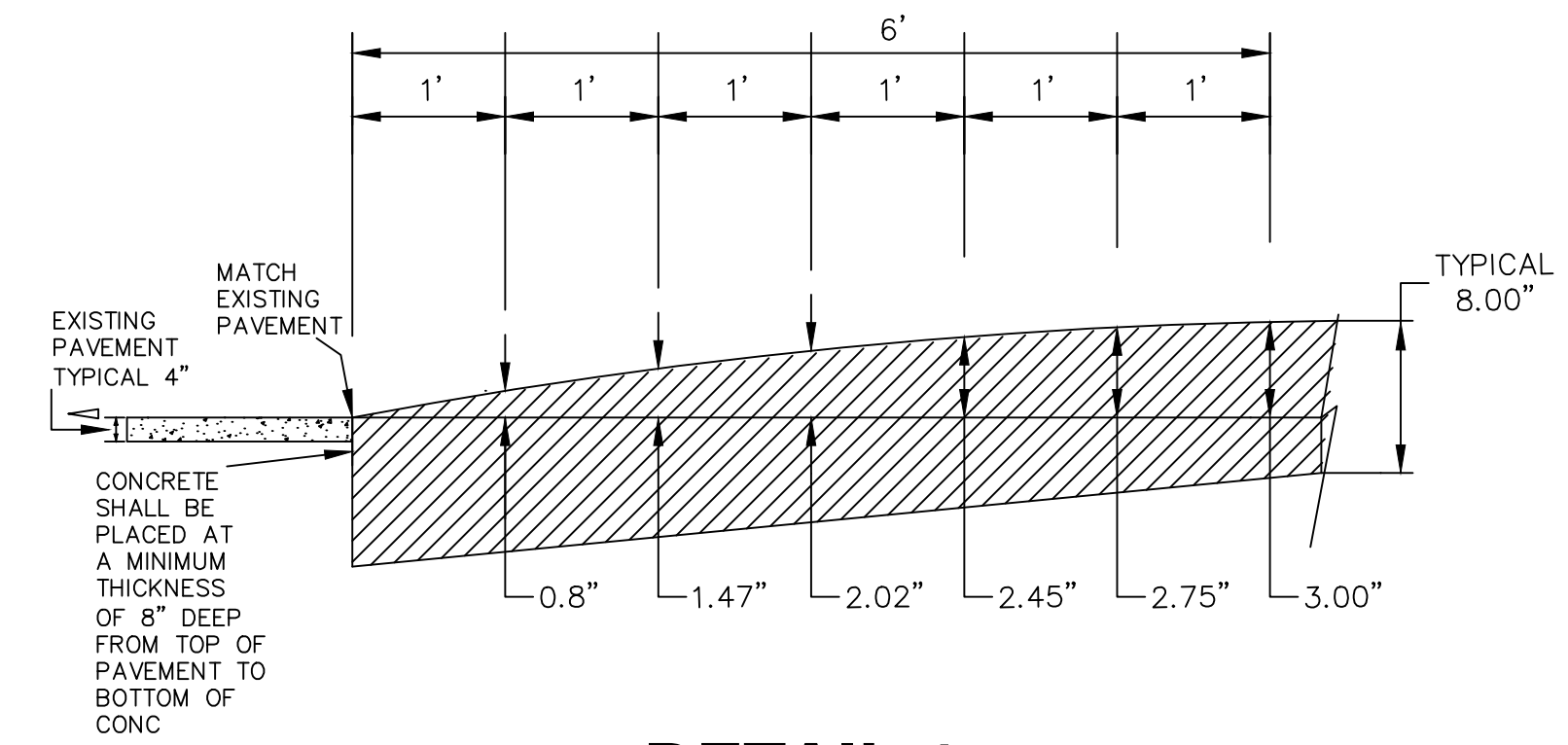
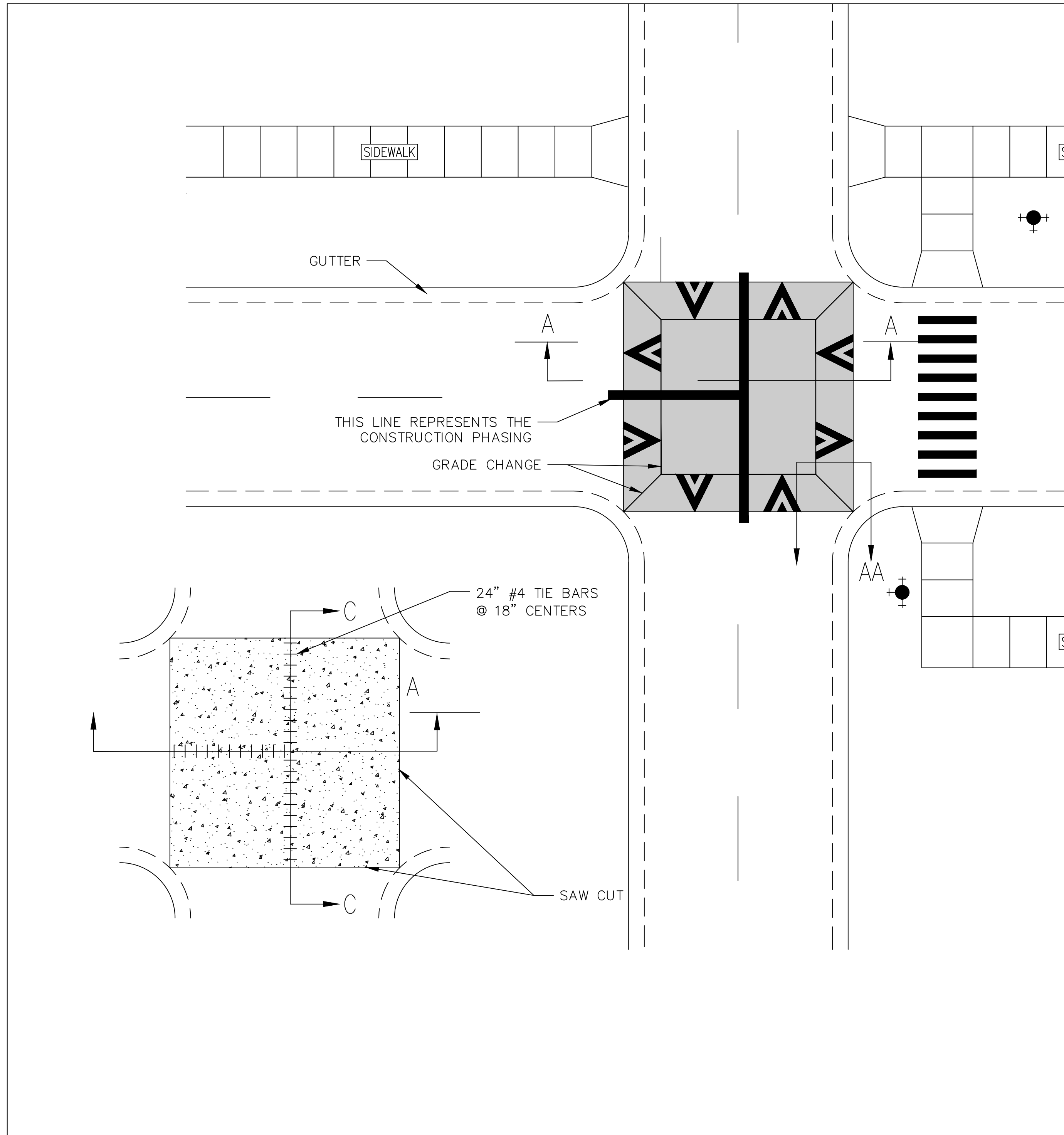
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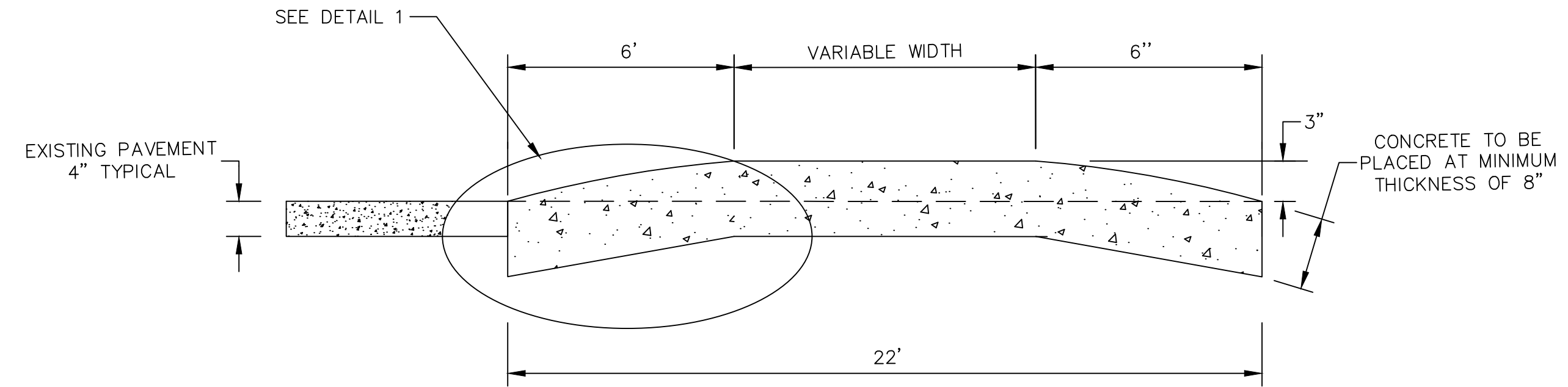


CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING  
2024 ANNUAL RESURFACING  
CONCRETE SPEED HUMP DETAIL

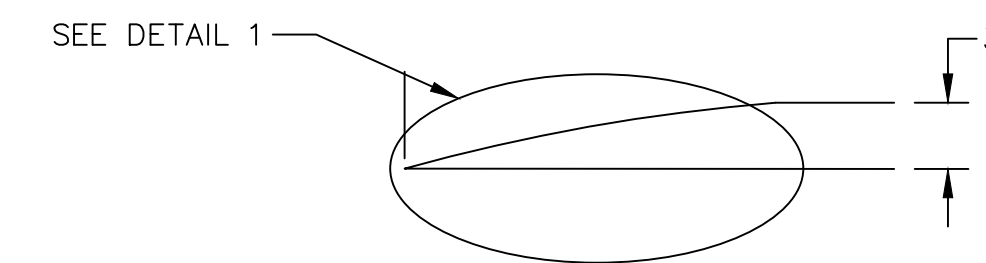
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**DETAIL 1**



**SECTION A**



**SECTION AA**

**CONCRETE RAISED INTERSECTION DETAIL**

SCALE: NOT TO SCALE



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00	BID SET	1/25/24	CE	NB	DRAWN
					REV.

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**CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING**  
**2024 ANNUAL RESURFACING**  
CONCRETE RAISED INTERSECTION

SCALE: NTS  
DRAWING No. 2024004-5













# CITY OF ANN ARBOR ENGINEERING

## BURWOOD AVE

RFP-24-04, FILE No. 2024004

### NOTES:

FOR PROTECTION OF UNDERGROUND UTILITIES AND IN CONFORMANCE WITH PUBLIC ACT 174 OF 2013, THE CONTRACTOR SHALL CALL 811 OR 1-800-482-7171 A MINIMUM OF THREE FULL WORKING DAYS, EXCLUDING SATURDAYS, SUNDAYS, AND HOLIDAYS, PRIOR TO BEGINNING EACH EXCAVATION IN AREAS WHERE PUBLIC UTILITIES HAVE NOT BEEN PREVIOUSLY LOCATED. MEMBERS WILL THUS BE ROUTINELY NOTIFIED. THIS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF NOTIFYING UTILITY OWNERS WHO MAY NOT BE A PART OF THE "MISS DIG" ALERT SYSTEM.

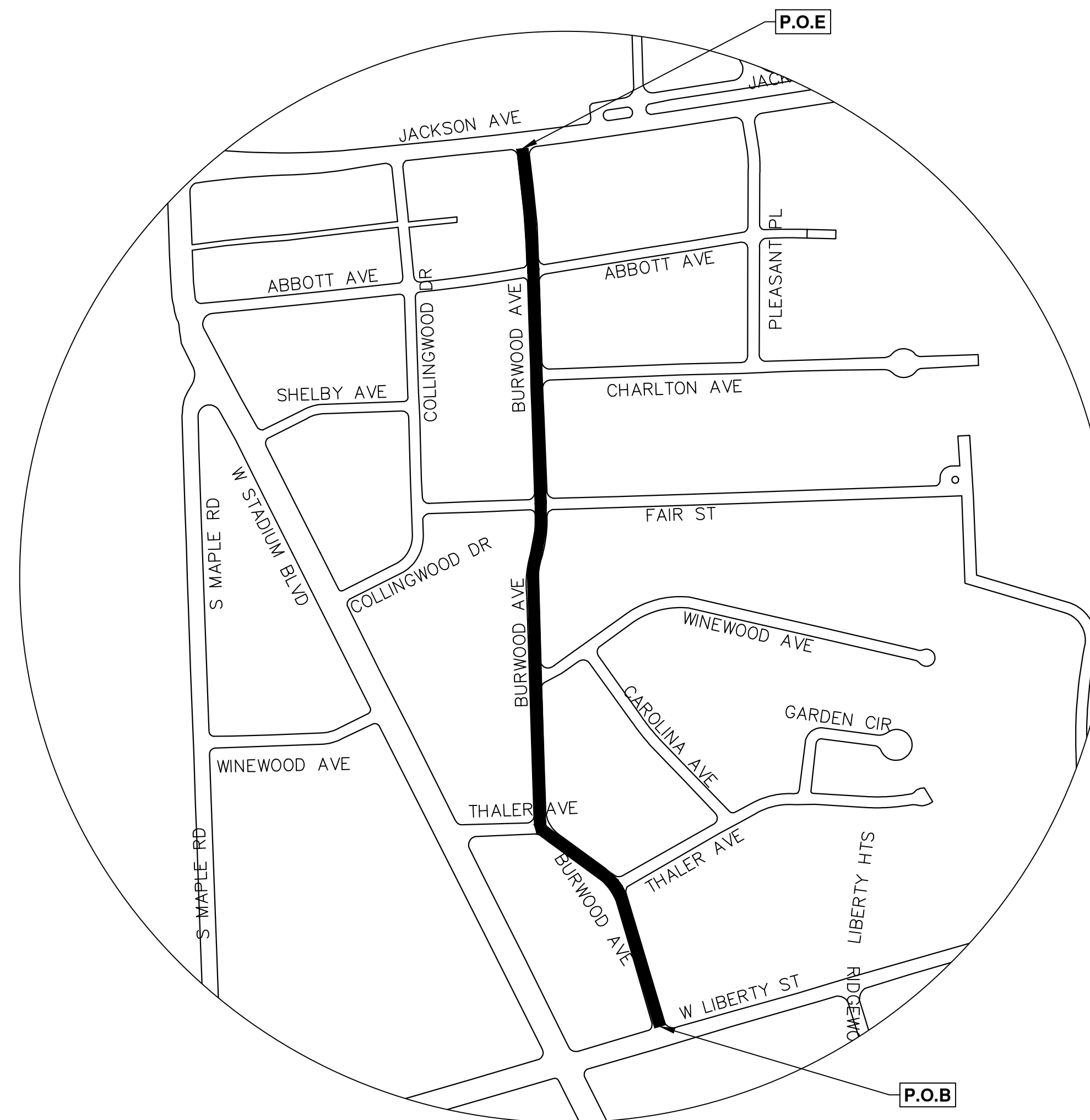
THE UNDERGROUND LOCATIONS SHOWN FOR NATURAL GAS, TELEPHONE, ELECTRICAL POWER, CABLE TV AND FIBER OPTIC LINES ARE APPROXIMATE. THE CITY OF ANN ARBOR ASSUMES NO RESPONSIBILITY FOR THEIR ACCURATE REPRESENTATION IN THIS DRAWING. MISS DIG MUST BE CONTACTED PRIOR TO CONSTRUCTION TO LOCATE THESE UTILITIES.

THE CONSTRUCTION COVERED BY THESE PLANS SHALL CONFORM TO THE CITY OF ANN ARBOR PUBLIC SERVICES AREA DESIGN STANDARDS AND CONSTRUCTION SPECIFICATIONS ("STANDARDS"). THE OMISSION OF ANY STANDARD DETAIL DOES NOT RELIEVE THE CONTRACTOR OF THEIR OBLIGATION TO CONSTRUCT ITEMS IN COMPLETE ACCORDANCE WITH THOSE STANDARDS.

FULL DEPTH R&R  
CONSTRUCTION SCOPE AND SEQUENCING

PERFORM WORK ON THIS STREET IN ACCORDANCE WITH THE "SCHEDULE OF STREETS". COMPLETE THE WORK IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS, AND AS DIRECTED BY THE ENGINEER. CONSTRUCTION ON THIS STREET INCLUDES, BUT IS NOT LIMITED TO, THE WORK ITEMS LISTED BELOW. PERFORM THE WORK IN THE ORDER INDICATED UNLESS OTHERWISE AUTHORIZED OR DIRECTED BY THE ENGINEER AND NOT UNTIL LOCATING ALL UNDERGROUND UTILITIES IN ACCORDANCE WITH THE REQUIREMENTS NOTED ON THE PLANS AND IN THE CONTRACT SPECIFICATIONS.

- INSTALL NO PARKING SIGNS (AS REQUIRED), AND ONCE THE SIGNS ARE ENFORCEABLE IMPLEMENT THE MAINTENANCE OF TRAFFIC (M.O.T.) PLAN AND PERMISSIBLE TRAFFIC RESTRICTIONS, AND INSTALL SOIL EROSION AND SEDIMENTATION CONTROL (SESC) MEASURES.
- PERFORM SAWCUTS FOR HOT MIX ASPHALT (HMA) AND CONCRETE REMOVAL AS IDENTIFIED AND DIRECTED BY THE ENGINEER.
- CONDUCT REMOVAL WORK RELATED TO: EXPOSING THE GUTTER PAN IF OVERLAYED; PAVEMENT; CURB REPAIR, AND CONCRETE ITEMS WITH EXCEPTION TO COLD MILLING.
- INSTALL PROPOSED DRAINAGE STRUCTURES, STORM SEWER, AND UNDERDRAIN AS REQUIRED.
- PERFORM ALL CONCRETE WORK, INCLUDING RESTORATION, AS REQUIRED.
- TEMPORARY LOWER ALL STRUCTURE COVERS LOCATED WITHIN THE EXISTING PAVEMENT, INCLUDING GATE AND MONUMENT BOXES AS REQUIRED. COORDINATE THE LOWERING OF PRIVATE UTILITY STRUCTURE COVERS AND BOXES WITH APPLICABLE UTILITY OWNER.
- REMOVE ALL OF THE EXISTING HMA SURFACE (FULL DEPTH - APPROXIMATELY 4 INCHES) BY COLD MILLING. THIS MAY ALSO INCLUDE REMOVAL OF THE ROAD BASE MATERIAL TO A DEPTH DETERMINED BY THE ENGINEER.
- PROOF ROLL AND PERFORM UNDERCUTS AND/OR BASE REPAIRS AS DIRECTED BY THE ENGINEER.
- PLACE AGGREGATE BASE MATERIAL AS REQUIRED AND DIRECTED BY THE ENGINEER.
- GRADE, SHAPE, AND COMPACT THE EXISTING/PLACED BASE MATERIAL AS DIRECTED BY THE ENGINEER.
- UPON APPROVAL FROM THE ENGINEER PLACE 2.0 INCH HOT MIX ASPHALT (HMA) LEVELING COURSE USING 5EL HMA MIXTURE.
- CLEAN PAVEMENT AND PLACE SIDE STREET HMA APPROACHES (LEVELING COURSE) AS REQUIRED.
- CLEAN PAVEMENT AND WITH APPROVAL FROM THE ENGINEER PLACE 2.0 INCH HMA TOP COURSE USING 5EL HMA MIXTURE.
- CLEAN PAVEMENT AND PLACE SIDE STREET HMA APPROACHES (TOP COURSE) AS REQUIRED.
- CLEAN PAVEMENT AND PLACE HMA APPROACHES OR WEDGING FOR DRIVEWAYS AS REQUIRED.
- CORE TOP COURSE PAVEMENT AND ADJUST ALL STRUCTURE COVERS, INCLUDING GATE AND MONUMENT BOXES, TO THEIR FINISHED ELEVATIONS. COORDINATE THE ADJUSTMENT OF PRIVATE UTILITY STRUCTURES AND BOXES WITH APPLICABLE UTILITY OWNER.
- INSTALL TRAFFIC CALMING DEVICES.
- CLEAN PAVEMENT AND COMPLETE ALL PAVEMENT MARKINGS AS REQUIRED.
- COMPLETE ALL MISCELLANEOUS CONSTRUCTION INCLUDING CLEANING OF STRUCTURES, ALL OTHER NECESSARY CLEAN UP, AND FINAL RESTORATION.
- REMOVE ALL SESC MEASURES, NO PARKING SIGNS, MISS DIG FLAGS, AND TEMPORARY TRAFFIC CONTROL DEVICES.
- OPEN STREET TO TRAFFIC UPON APPROVAL OF THE ENGINEER.



QUANTITIES		
Item Description	Unit	Quantities
Erosion Control, Inlet Protection, Fabric Drop	Ea	18.00
Temporary "No Parking" Sign	Ea	63.00
Lighted Arrow, Type C, Furn & Oper	Ea	1.00
Plastic Drum, High Intensity, Lighted, Furn & Oper	Ea	30.00
Channelizer Cone, High Intensity, 42 In., Furn & Oper	Ea	94.00
Temporary Pedestrian Mat, Furn & Oper	Ft	150.00
HMA, Any Thickness, Rem	Syd	7591.00
HMA Patch, Rem	Syd	30.00
Cold Milling for Concrete Curb and Gutter Reveal	Syd	800.00
Curb, Gutter, and Curb and Gutter, Any Type, Rem	Ft	1530.00
Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	Sft	1030.00
Undercutting, Type IIA	Cyd	700.00
Adjust Structure Cover	Ea	25.00
Structure Frame	Ea	19.00
Structure Covers	Ea	19.00
Adjust Monument Box or Gate Valve Box	Ea	9.00
12 In., PE Storm Sewer, SD-TD-2	Ft	65.00
Storm Single Inlet, 24 In. Dia., (0-8'deep)	Ea	13.00
Storm Sewer Pipe, 12 in. Dia., Rem	Ft	65.00
Storm Sewer Structure, Rem	Ea	13.00
Storm Structure Cover, Type K	Ea	14.00
Dr Structure, Point	Ea	2.00
Hand Patching	Ton	114.00
HMA, 5EL	Ton	1550.00
HMA, Wedging	Ton	5.00
Sidewalk Retaining Wall, Integral, 6 inch to 18 inch Height	Sft	11.00
Conc, Curb or Curb & Gutter, All Types	Ft	1042.00
Conc, Driveway Opening, Type M	Ft	488.00
Conc, Sidewalk, 4 in	Sft	652.00
Conc, Sidewalk or Ramp, 6 inch	Sft	343.00
Driveway, Nonreinf Conc, 6 inch, Modified	Sft	171.00
Speed Hump, Conc	Syd	210.00
Detectable Warning Surface	Ft	30.00
Pavt Mrkg, Polyurea, Speed Hump Chevron, White	Ea	20.00
Rem Curing Compound, for Spec Mrkg	Sft	720.00
Turf Restoration	Syd	510.00



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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

SCALE: BURWOOD AVE

DRAWING No. 2024004-8

8 - SUBSET COVER SHEET

SHEET No. 8 OF 30





# CITY OF ANN ARBOR

## ENGINEERING

### CENTRAL AVE

RFP-24-04, FILE No. 2024004

**NOTES:**

FOR PROTECTION OF UNDERGROUND UTILITIES AND IN CONFORMANCE WITH PUBLIC ACT 174 OF 2013, THE CONTRACTOR SHALL CALL 811 OR 1-800-482-7171 A MINIMUM OF THREE FULL WORKING DAYS, EXCLUDING SATURDAYS, SUNDAYS, AND HOLIDAYS, PRIOR TO BEGINNING EACH EXCAVATION IN AREAS WHERE PUBLIC UTILITIES HAVE NOT BEEN PREVIOUSLY LOCATED. MEMBERS WILL THUS BE ROUTINELY NOTIFIED. THIS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF NOTIFYING UTILITY OWNERS WHO MAY NOT BE A PART OF THE "MISS DIG" ALERT SYSTEM.

THE UNDERGROUND LOCATIONS SHOWN FOR NATURAL GAS, TELEPHONE, ELECTRICAL POWER, CABLE TV AND FIBER OPTIC LINES ARE APPROXIMATE. THE CITY OF ANN ARBOR ASSUMES NO RESPONSIBILITY FOR THEIR ACCURATE REPRESENTATION IN THIS DRAWING. MISS DIG MUST BE CONTACTED PRIOR TO CONSTRUCTION TO LOCATE THESE UTILITIES.

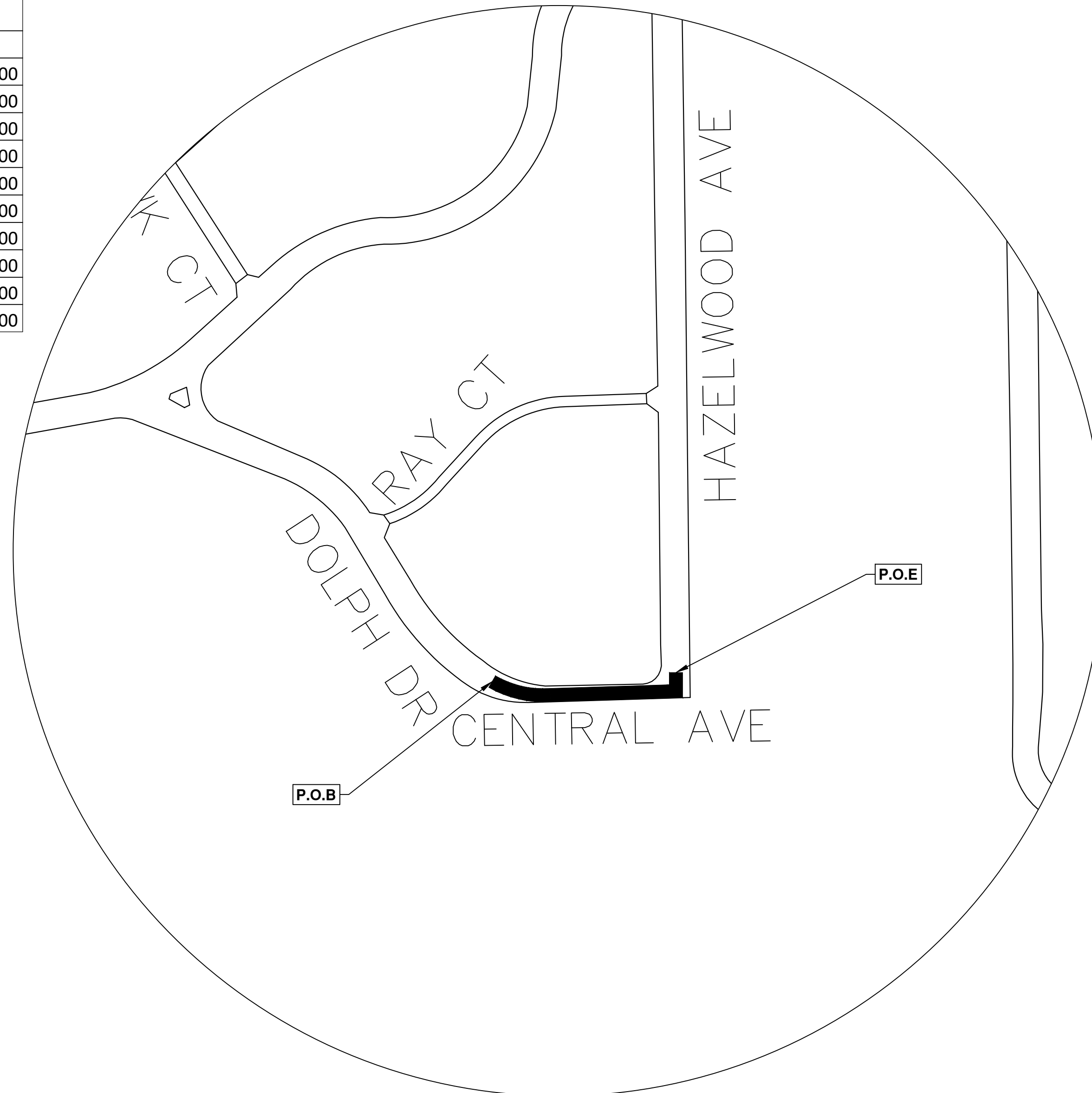
THE CONSTRUCTION COVERED BY THESE PLANS SHALL CONFORM TO THE CITY OF ANN ARBOR PUBLIC SERVICES AREA DESIGN STANDARDS AND CONSTRUCTION SPECIFICATIONS ("STANDARDS"). THE OMISSION OF ANY STANDARD DETAIL DOES NOT RELIEVE THE CONTRACTOR OF THEIR OBLIGATION TO CONSTRUCT ITEMS IN COMPLETE ACCORDANCE WITH THOSE STANDARDS.

*FULL DEPTH R&R  
CONSTRUCTION SCOPE AND SEQUENCING*

*PERFORM WORK ON THIS STREET IN ACCORDANCE WITH THE "SCHEDULE OF STREETS". COMPLETE THE WORK IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS, AND AS DIRECTED BY THE ENGINEER. CONSTRUCTION ON THIS STREET INCLUDES, BUT IS NOT LIMITED TO, THE WORK ITEMS LISTED BELOW. PERFORM THE WORK IN THE ORDER INDICATED UNLESS OTHERWISE AUTHORIZED OR DIRECTED BY THE ENGINEER AND NOT UNTIL LOCATING ALL UNDERGROUND UTILITIES IN ACCORDANCE WITH THE REQUIREMENTS NOTED ON THE PLANS AND IN THE CONTRACT SPECIFICATIONS.*

1. INSTALL NO PARKING SIGNS (AS REQUIRED), AND ONCE THE SIGNS ARE ENFORCEABLE IMPLEMENT THE MAINTENANCE OF TRAFFIC (M.O.T.) PLAN AND PERMISSIBLE TRAFFIC RESTRICTIONS, AND INSTALL SOIL EROSION AND SEDIMENTATION CONTROL (SESC) MEASURES.
2. PERFORM SAWCUTS FOR HOT MIX ASPHALT (HMA) AND CONCRETE REMOVAL AS IDENTIFIED AND DIRECTED BY THE ENGINEER.
3. CONDUCT REMOVAL WORK RELATED TO: EXPOSING THE GUTTER PAN IF OVERLAYED; PAVEMENT; CURB REPAIR, AND CONCRETE ITEMS WITH EXCEPTION TO COLD MILLING.
4. INSTALL PROPOSED DRAINAGE STRUCTURES, STORM SEWER, AND UNDERDRAIN AS REQUIRED.
5. PERFORM ALL CONCRETE WORK, INCLUDING RESTORATION, AS REQUIRED.
6. TEMPORARY LOWER ALL STRUCTURE COVERS LOCATED WITHIN THE EXISTING PAVEMENT, INCLUDING GATE AND MONUMENT BOXES AS REQUIRED. COORDINATE THE LOWERING OF PRIVATE UTILITY STRUCTURE COVERS AND BOXES WITH APPLICABLE UTILITY OWNER.
7. REMOVE ALL OF THE EXISTING HMA SURFACE (FULL DEPTH – APPROXIMATELY 4 INCHES) BY COLD MILLING. THIS MAY ALSO INCLUDE REMOVAL OF THE ROAD BASE MATERIAL TO A DEPTH DETERMINED BY THE ENGINEER.
8. PROOF ROLL AND PERFORM UNDERCUTS AND/OR BASE REPAIRS AS DIRECTED BY THE ENGINEER.
9. PLACE AGGREGATE BASE MATERIAL AS REQUIRED AND DIRECTED BY THE ENGINEER.
10. GRADE, SHAPE, AND COMPACT THE EXISTING/PLACED BASE MATERIAL AS DIRECTED BY THE ENGINEER.
11. UPON APPROVAL FROM THE ENGINEER PLACE 2.0 INCH HOT MIX ASPHALT (HMA) LEVELING COURSE USING 5EL HMA MIXTURE.
12. CLEAN PAVEMENT AND PLACE SIDE STREET HMA APPROACHES (LEVELING COURSE) AS REQUIRED.
13. CLEAN PAVEMENT AND WITH APPROVAL FROM THE ENGINEER PLACE 2.0 INCH HMA TOP COURSE USING 5EL HMA MIXTURE.
14. CLEAN PAVEMENT AND PLACE SIDE STREET HMA APPROACHES (TOP COURSE) AS REQUIRED.
15. CLEAN PAVEMENT AND PLACE HMA APPROACHES OR WEDGING FOR DRIVEWAYS AS REQUIRED.
16. CORE TOP COURSE PAVEMENT AND ADJUST ALL STRUCTURE COVERS, INCLUDING GATE AND MONUMENT BOXES, TO THEIR FINISHED ELEVATIONS. COORDINATE THE ADJUSTMENT OF PRIVATE UTILITY STRUCTURES AND BOXES WITH APPLICABLE UTILITY OWNER.
17. CLEAN PAVEMENT AND COMPLETE ALL PAVEMENT MARKINGS AS REQUIRED.
18. COMPLETE ALL MISCELLANEOUS CONSTRUCTION INCLUDING CLEANING OF STRUCTURES, ALL OTHER NECESSARY CLEAN UP, AND FINAL RESTORATION.
19. REMOVE ALL SESC MEASURES, NO PARKING SIGNS, MISS DIG FLAGS, AND TEMPORARY TRAFFIC CONTROL DEVICES.
20. OPEN STREET TO TRAFFIC UPON APPROVAL OF THE ENGINEER.

QUANTITIES		
Item Description	Unit	
Sign, Type B, Temp, Prismatic, Furn & Oper	Sft	13.00
Temporary "No Parking" Sign	Ea	6.00
Channelizer Cone, High Intensity, 42 In., Furn & Oper	Ea	10.00
Barricade, Type III, High Intensity, Lighted, Furn & Oper	Ea	1.00
Cold-Milling HMA Surface	Syd	446.00
Grading Roadway	Syd	446.00
Undercutting, Type IIA	Cyd	45.00
Adjust Structure Cover	Ea	2.00
HMA, 5EL	Ton	100.00
Pavt Mrkg, Thermopl, 12 In., Crosswalk	Ft	80.00



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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING  
CENTRAL AVE  
9 - SUBSET COVER SHEET  
DRAWING No. 2024004-9

























# CITY OF ANN ARBOR ENGINEERING LAKEVIEW DR

RFP-24-04, FILE No. 2024004

**NOTES:**

FOR PROTECTION OF UNDERGROUND UTILITIES AND IN CONFORMANCE WITH PUBLIC ACT 174 OF 2013, THE CONTRACTOR SHALL CALL 811 OR 1-800-482-7171 A MINIMUM OF THREE FULL WORKING DAYS, EXCLUDING SATURDAYS, SUNDAYS, AND HOLIDAYS, PRIOR TO BEGINNING EACH EXCAVATION IN AREAS WHERE PUBLIC UTILITIES HAVE NOT BEEN PREVIOUSLY LOCATED. MEMBERS WILL THUS BE ROUTINELY NOTIFIED. THIS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF NOTIFYING UTILITY OWNERS WHO MAY NOT BE A PART OF THE "MISS DIG" ALERT SYSTEM.

THE UNDERGROUND LOCATIONS SHOWN FOR NATURAL GAS, TELEPHONE, ELECTRICAL POWER, CABLE TV AND FIBER OPTIC LINES ARE APPROXIMATE. THE CITY OF ANN ARBOR ASSUMES NO RESPONSIBILITY FOR THEIR ACCURATE REPRESENTATION IN THIS DRAWING. MISS DIG MUST BE CONTACTED PRIOR TO CONSTRUCTION TO LOCATE THESE UTILITIES.

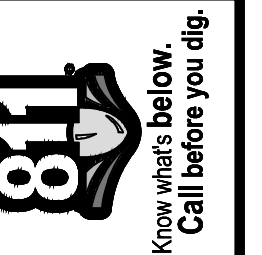
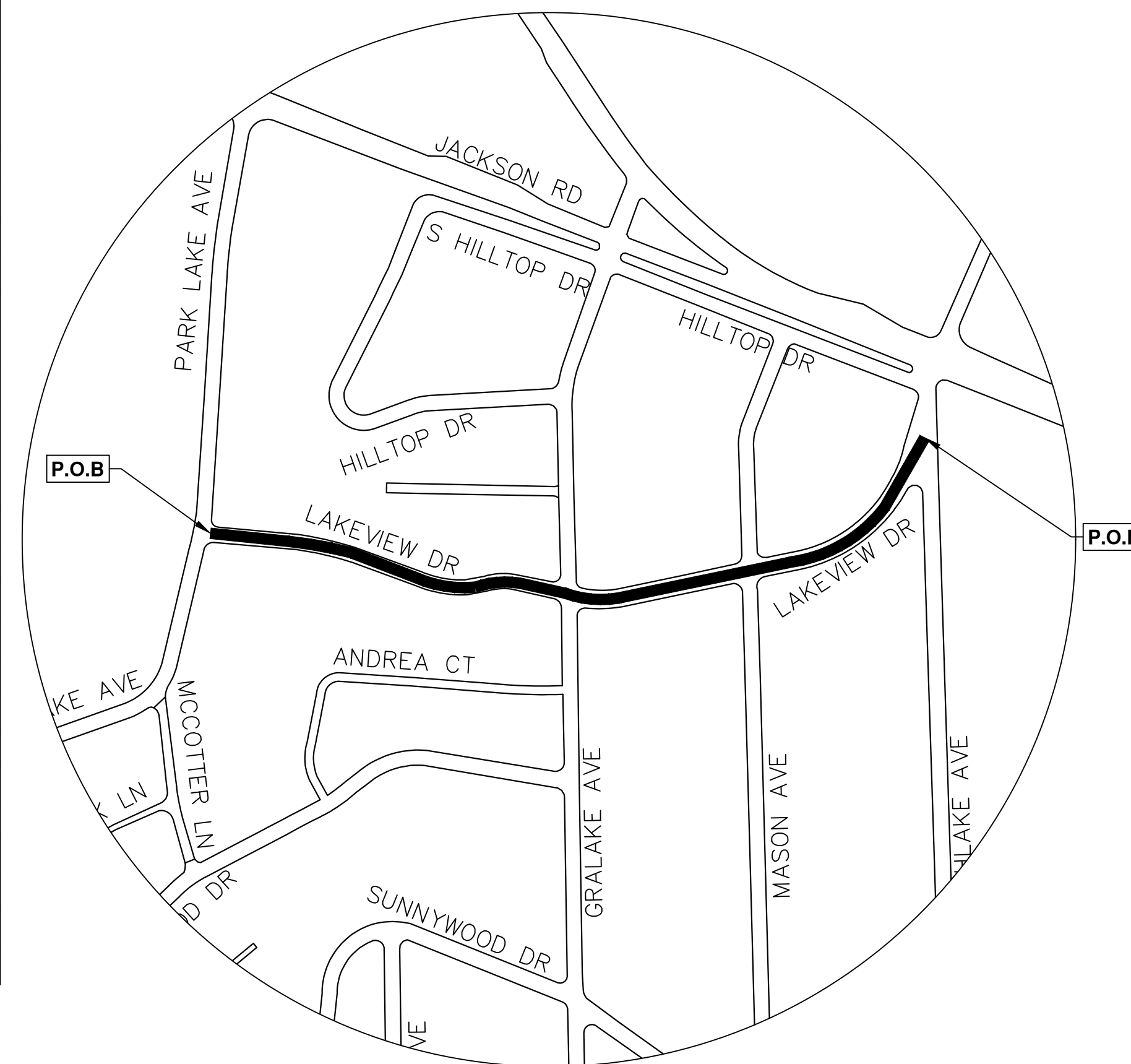
THE CONSTRUCTION COVERED BY THESE PLANS SHALL CONFORM TO THE CITY OF ANN ARBOR PUBLIC SERVICES AREA DESIGN STANDARDS AND CONSTRUCTION SPECIFICATIONS ("STANDARDS"). THE OMISSION OF ANY STANDARD DETAIL DOES NOT RELIEVE THE CONTRACTOR OF THEIR OBLIGATION TO CONSTRUCT ITEMS IN COMPLETE ACCORDANCE WITH THOSE STANDARDS.

2" MILL & FILL  
CONSTRUCTION SCOPE AND SEQUENCING

PERFORM WORK ON THIS STREET IN ACCORDANCE WITH THE "SCHEDULE OF STREETS". COMPLETE THE WORK IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS, AND AS DIRECTED BY THE ENGINEER. CONSTRUCTION ON THIS STREET INCLUDES, BUT IS NOT LIMITED TO, THE WORK ITEMS LISTED BELOW. PERFORM THE WORK IN THE ORDER INDICATED UNLESS OTHERWISE AUTHORIZED OR DIRECTED BY THE ENGINEER AND NOT UNTIL LOCATING ALL UNDERGROUND UTILITIES IN ACCORDANCE WITH THE REQUIREMENTS NOTED ON THE PLANS AND IN THE CONTRACT SPECIFICATIONS.

1. INSTALL NO PARKING SIGNS (AS REQUIRED), AND ONCE THE SIGNS ARE ENFORCEABLE IMPLEMENT THE MAINTENANCE OF TRAFFIC (M.O.T.) PLAN AND PERMISSIBLE TRAFFIC RESTRICTIONS, AND INSTALL SOIL EROSION AND SEDIMENTATION CONTROL (SESC) MEASURES.
2. PERFORM SAWCUTS FOR HOT MIX ASPHALT (HMA) AND CONCRETE REMOVAL AS IDENTIFIED AND DIRECTED BY THE ENGINEER.
3. CONDUCT REMOVAL WORK RELATED TO: EXPOSING THE GUTTER PAN IF OVERLAYED; PAVEMENT, CURB REPAIRS; AND CONCRETE ITEMS WITH EXCEPTION TO COLD MILLING.
4. PERFORM ALL CONCRETE WORK, INCLUDING RESTORATION, AS REQUIRED.
5. REMOVE EXISTING HMA SURFACE (PARTIAL DEPTH - 2 INCHES) BY COLD MILLING. THIS MAY ALSO INCLUDE ADDITIONAL HMA REMOVAL AND/OR BASE REPAIRS DIRECTED BY THE ENGINEER. PERFORM ANY FULL DEPTH PLUNGE CUTS WHERE REMAINING HMA HAS FAILED.
6. WHERE FULL DEPTH PLUNGE CUTS WERE REQUIRED, HAND PATCH UP TO BOTTOM OF TOP COURSE WITH HOT MIX ASPHALT (HMA), USING 5EL HMA.
7. CLEAN PAVEMENT AND WITH APPROVAL FROM THE ENGINEER PLACE 2.0 INCH HOT MIX ASPHALT (HMA) TOP COURSE USING 5EL HMA MIXTURE.
8. CLEAN PAVEMENT AND PLACE SIDE STREET HMA APPROACHES AS REQUIRED.
9. CLEAN PAVEMENT AND PLACE HMA APPROACHES OR WEDGING FOR DRIVEWAYS AS REQUIRED.
10. CORE PAVEMENT AND RAISE STRUCTURES TO FINISH GRADE, BEING CAREFUL TO KEEP TOP COURSE OF HMA CLEAN.
11. CLEAN PAVEMENT AND COMPLETE ALL PAVEMENT MARKINGS AS REQUIRED.
12. COMPLETE ALL MISCELLANEOUS CONSTRUCTION INCLUDING CLEANING OF STRUCTURES, ALL OTHER NECESSARY CLEAN UP, AND FINAL RESTORATION.
13. REMOVE ALL SESC MEASURES, NO PARKING SIGNS, MISS DIG FLAGS, AND TEMPORARY TRAFFIC CONTROL DEVICES.
14. OPEN STREET TO TRAFFIC UPON APPROVAL OF THE ENGINEER.

QUANTITIES		
Item Description	Unit	Quantities
Sign, Type B, Temp, Prismatic, Furn & Oper	Sft	75.00
Sign, Type B, Temp, Prismatic, Special, Furn & Oper	Sft	8.00
Temporary "No Parking" Sign	Ea	33.00
Channelizer Cone, High Intensity, 42 In., Furn & Oper	Ea	50.00
Barricade, Type III, High Intensity, Lighted, Furn & Oper	Ea	6.00
Temporary Pedestrian Mat, Furn & Oper	Ft	100.00
HMA, Any Thickness, Rem	Syd	27.00
HMA Patch, Rem	Syd	30.00
Cold-Milling HMA Surface	Syd	4320.00
Cold Milling, Plunge Cut	Syd	430.00
HMA Surface, Around Structure Cover, Rem	Ea	10.00
Cold Milling for Concrete Curb and Gutter Reveal	Syd	280.00
Curb, Gutter, and Curb and Gutter, Any Type, Rem	Ft	288.00
Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	Sft	160.00
Dr Structure, Point	Ea	5.00
Curb Box, Adjust	Ea	1.00
Flowable Fill	Cyd	5.00
Hand Patching	Ton	50.00
HMA, 5EL	Ton	475.00
HMA, Wedging	Ton	5.00
Conc, Curb or Curb & Gutter, All Types	Ft	91.00
Conc, Driveway Opening, Type M	Ft	197.00
Conc, Sidewalk or Ramp, 6 inch	Sft	160.00
Detectable Warning Surface	Ft	20.00
Turf Restoration	Syd	96.00



NO.	REVISION	DATE	DESCRIPTION
01	ADDENDUM 1	2/13/24	BID SET
00		1/25/24	DRAWN
			CHECKED

CITY OF ANN ARBOR  
PUBLIC SERVICES  
301 EAST HURON STREET  
ANN ARBOR, MI 48106-6647  
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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING  
LAKEVIEW DR  
15 - SUBSET COVER SHEET  
DRAWING No. 2024004-15





# CITY OF ANN ARBOR ENGINEERING LAKEWOOD DR

RFP-24-04, FILE No. 2024004

**NOTES:**

FOR PROTECTION OF UNDERGROUND UTILITIES AND IN CONFORMANCE WITH PUBLIC ACT 174 OF 2013, THE CONTRACTOR SHALL CALL 811 OR 1-800-482-7171 A MINIMUM OF THREE FULL WORKING DAYS, EXCLUDING SATURDAYS, SUNDAYS, AND HOLIDAYS, PRIOR TO BEGINNING EACH EXCAVATION IN AREAS WHERE PUBLIC UTILITIES HAVE NOT BEEN PREVIOUSLY LOCATED. MEMBERS WILL THUS BE ROUTINELY NOTIFIED. THIS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF NOTIFYING UTILITY OWNERS WHO MAY NOT BE A PART OF THE "MISS DIG" ALERT SYSTEM.

THE UNDERGROUND LOCATIONS SHOWN FOR NATURAL GAS, TELEPHONE, ELECTRICAL POWER, CABLE TV AND FIBER OPTIC LINES ARE APPROXIMATE. THE CITY OF ANN ARBOR ASSUMES NO RESPONSIBILITY FOR THEIR ACCURATE REPRESENTATION IN THIS DRAWING. MISS DIG MUST BE CONTACTED PRIOR TO CONSTRUCTION TO LOCATE THESE UTILITIES.

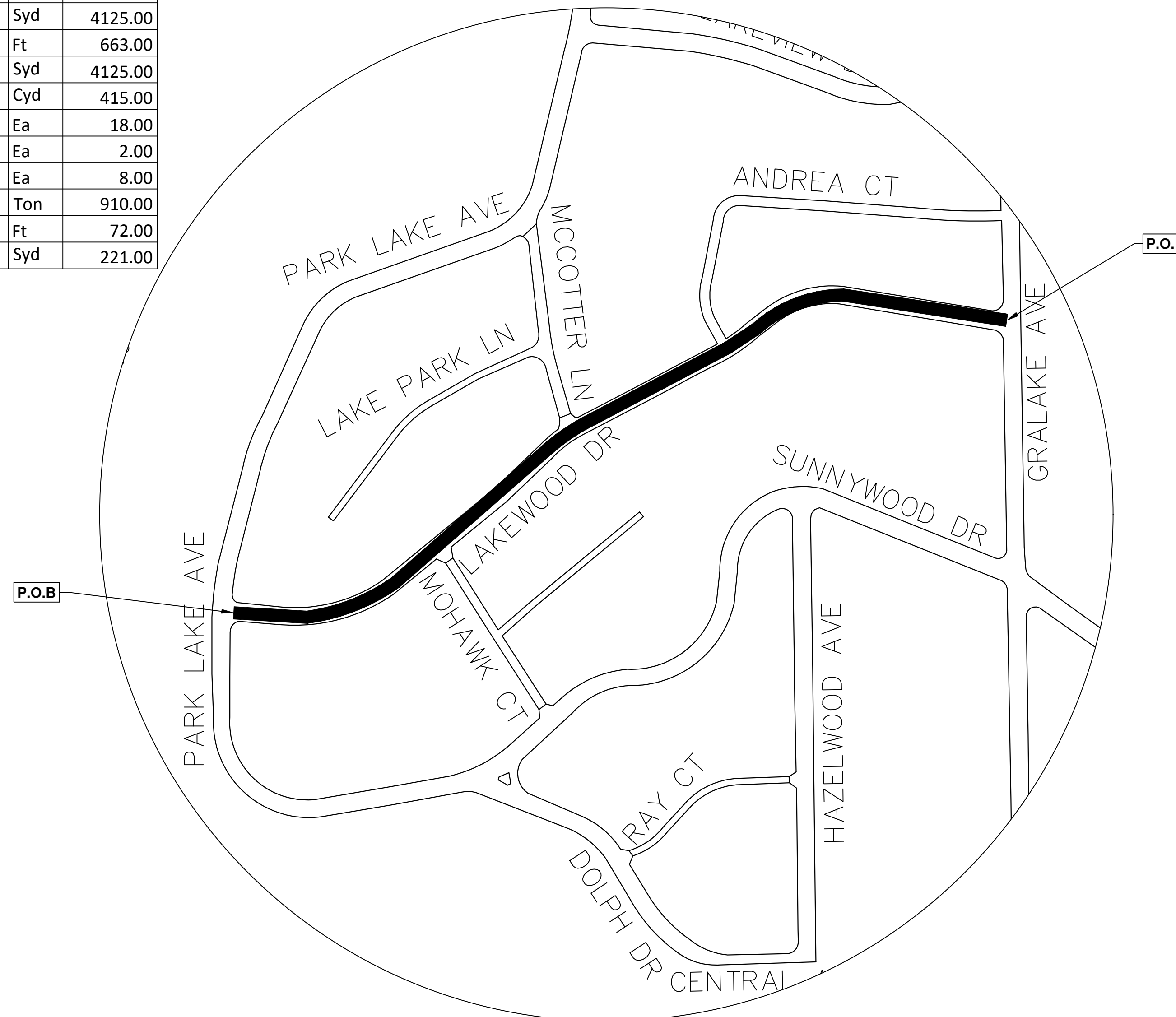
THE CONSTRUCTION COVERED BY THESE PLANS SHALL CONFORM TO THE CITY OF ANN ARBOR PUBLIC SERVICES AREA DESIGN STANDARDS AND CONSTRUCTION SPECIFICATIONS ("STANDARDS"). THE OMISSION OF ANY STANDARD DETAIL DOES NOT RELIEVE THE CONTRACTOR OF THEIR OBLIGATION TO CONSTRUCT ITEMS IN COMPLETE ACCORDANCE WITH THOSE STANDARDS.

FULL DEPTH R&R  
CONSTRUCTION SCOPE AND SEQUENCING

PERFORM WORK ON THIS STREET IN ACCORDANCE WITH THE "SCHEDULE OF STREETS". COMPLETE THE WORK IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS, AND AS DIRECTED BY THE ENGINEER. CONSTRUCTION ON THIS STREET INCLUDES, BUT IS NOT LIMITED TO, THE WORK ITEMS LISTED BELOW. PERFORM THE WORK IN THE ORDER INDICATED UNLESS OTHERWISE AUTHORIZED OR DIRECTED BY THE ENGINEER AND NOT UNTIL LOCATING ALL UNDERGROUND UTILITIES IN ACCORDANCE WITH THE REQUIREMENTS NOTED ON THE PLANS AND IN THE CONTRACT SPECIFICATIONS.

- INSTALL NO PARKING SIGNS (AS REQUIRED), AND ONCE THE SIGNS ARE ENFORCEABLE IMPLEMENT THE MAINTENANCE OF TRAFFIC (M.O.T.) PLAN AND PERMISSIBLE TRAFFIC RESTRICTIONS, AND INSTALL SOIL EROSION AND SEDIMENTATION CONTROL (SESC) MEASURES.
- PERFORM SAWCUTS FOR HOT MIX ASPHALT (HMA) AND CONCRETE REMOVAL AS IDENTIFIED AND DIRECTED BY THE ENGINEER.
- CONDUCT REMOVAL WORK RELATED TO: EXPOSING THE GUTTER PAN IF OVERLAYED; PAVEMENT; CURB REPAIR, AND CONCRETE ITEMS WITH EXCEPTION TO COLD MILLING.
- INSTALL PROPOSED DRAINAGE STRUCTURES, STORM SEWER, AND UNDERDRAIN AS REQUIRED.
- PERFORM ALL CONCRETE WORK, INCLUDING RESTORATION, AS REQUIRED.
- TEMPORARY LOWER ALL STRUCTURE COVERS LOCATED WITHIN THE EXISTING PAVEMENT, INCLUDING GATE AND MONUMENT BOXES AS REQUIRED. COORDINATE THE LOWERING OF PRIVATE UTILITY STRUCTURE COVERS AND BOXES WITH APPLICABLE UTILITY OWNER.
- REMOVE ALL OF THE EXISTING HMA SURFACE (FULL DEPTH - APPROXIMATELY 4 INCHES) BY COLD MILLING. THIS MAY ALSO INCLUDE REMOVAL OF THE ROAD BASE MATERIAL TO A DEPTH DETERMINED BY THE ENGINEER.
- PROOF ROLL AND PERFORM UNDERCUTS AND/OR BASE REPAIRS AS DIRECTED BY THE ENGINEER.
- PLACE AGGREGATE BASE MATERIAL AS REQUIRED AND DIRECTED BY THE ENGINEER.
- GRADE, SHAPE, AND COMPACT THE EXISTING/PLACED BASE MATERIAL AS DIRECTED BY THE ENGINEER.
- UPON APPROVAL FROM THE ENGINEER PLACE 2.0 INCH HOT MIX ASPHALT (HMA) LEVELING COURSE USING 5EL HMA MIXTURE.
- CLEAN PAVEMENT AND PLACE SIDE STREET HMA APPROACHES (LEVELING COURSE) AS REQUIRED.
- CLEAN PAVEMENT AND WITH APPROVAL FROM THE ENGINEER PLACE 2.0 INCH HMA TOP COURSE USING 5EL HMA MIXTURE.
- CLEAN PAVEMENT AND PLACE SIDE STREET HMA APPROACHES (TOP COURSE) AS REQUIRED.
- CLEAN PAVEMENT AND PLACE HMA APPROACHES OR WEDGING FOR DRIVEWAYS AS REQUIRED.
- CORE TOP COURSE PAVEMENT AND ADJUST ALL STRUCTURE COVERS, INCLUDING GATE AND MONUMENT BOXES, TO THEIR FINISHED ELEVATIONS. COORDINATE THE ADJUSTMENT OF PRIVATE UTILITY STRUCTURES AND BOXES WITH APPLICABLE UTILITY OWNER.
- CLEAN PAVEMENT AND COMPLETE ALL PAVEMENT MARKINGS AS REQUIRED.
- COMPLETE ALL MISCELLANEOUS CONSTRUCTION INCLUDING CLEANING OF STRUCTURES, ALL OTHER NECESSARY CLEAN UP, AND FINAL RESTORATION.
- REMOVE ALL SESC MEASURES, NO PARKING SIGNS, MISS DIG FLAGS, AND TEMPORARY TRAFFIC CONTROL DEVICES.
- OPEN STREET TO TRAFFIC UPON APPROVAL OF THE ENGINEER.

QUANTITIES		
Item Description	Unit	Quantities
Erosion Control, Inlet Protection, Fabric Drop	Ea	14.00
Sign, Type B, Temp, Prismatic, Furn & Oper	Sft	63.00
Temporary "No Parking" Sign	Ea	40.00
Channelizer Cone, High Intensity, 42 In., Furn & Oper	Ea	55.00
Barricade, Type III, High Intensity, Lighted, Furn & Oper	Ea	5.00
Pedestrian Type II Barricade, Temp, Furn & Oper	Ea	2.00
Cold-Milling HMA Surface	Syd	4125.00
Curb, Gutter, and Curb and Gutter, Any Type, Rem	Ft	663.00
Grading Roadway	Syd	4125.00
Undercutting, Type IIA	Cyd	415.00
Adjust Structure Cover	Ea	18.00
Storm Structure Cover, Type K	Ea	2.00
Dr Structure, Point	Ea	8.00
HMA, 5EL	Ton	910.00
Pavt Mrkg, Thermopl, 12 In., Crosswalk	Ft	72.00
Turf Restoration	Syd	221.00



NO.	REVISION	DATE	DESCRIPTION
01	ADDENDUM 1	2/13/24	BID SET
00		1/25/24	REV.

CITY OF ANN ARBOR  
PUBLIC SERVICES  
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CITY OF ANN ARBOR - ENGINEERING  
LAKEWOOD DR  
SUBSET COVER SHEET

SCALE  
DRAWING No.  
2024004-16

T:\2024004\Plan Production\Lakewood Dr.dwg - \_s2 standard bw.stb - Plot Date: 2/13/2024 4:44:31 PM





# CITY OF ANN ARBOR ENGINEERING MASON AVE.

RFP-24-04, FILE No. 2024004

**NOTES:**

FOR PROTECTION OF UNDERGROUND UTILITIES AND IN CONFORMANCE WITH PUBLIC ACT 174 OF 2013, THE CONTRACTOR SHALL CALL 811 OR 1-800-482-7171 A MINIMUM OF THREE FULL WORKING DAYS, EXCLUDING SATURDAYS, SUNDAYS, AND HOLIDAYS, PRIOR TO BEGINNING EACH EXCAVATION IN AREAS WHERE PUBLIC UTILITIES HAVE NOT BEEN PREVIOUSLY LOCATED. MEMBERS WILL THUS BE ROUTINELY NOTIFIED. THIS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF NOTIFYING UTILITY OWNERS WHO MAY NOT BE A PART OF THE "MISS DIG" ALERT SYSTEM.

THE UNDERGROUND LOCATIONS SHOWN FOR NATURAL GAS, TELEPHONE, ELECTRICAL POWER, CABLE TV AND FIBER OPTIC LINES ARE APPROXIMATE. THE CITY OF ANN ARBOR ASSUMES NO RESPONSIBILITY FOR THEIR ACCURATE REPRESENTATION IN THIS DRAWING. MISS DIG MUST BE CONTACTED PRIOR TO CONSTRUCTION TO LOCATE THESE UTILITIES.

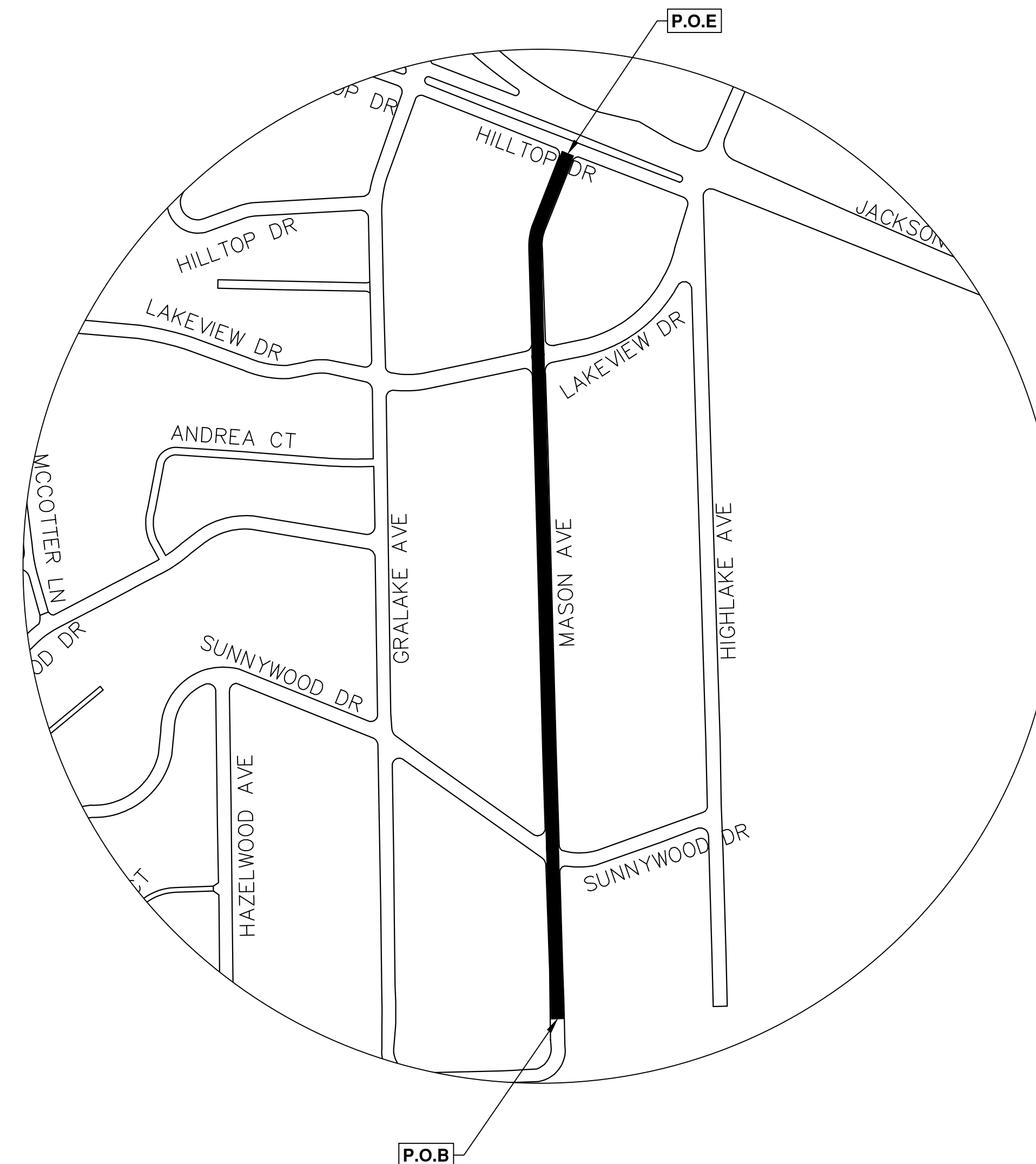
THE CONSTRUCTION COVERED BY THESE PLANS SHALL CONFORM TO THE CITY OF ANN ARBOR PUBLIC SERVICES AREA DESIGN STANDARDS AND CONSTRUCTION SPECIFICATIONS ("STANDARDS"). THE OMISSION OF ANY STANDARD DETAIL DOES NOT RELIEVE THE CONTRACTOR OF THEIR OBLIGATION TO CONSTRUCT ITEMS IN COMPLETE ACCORDANCE WITH THOSE STANDARDS.

FULL DEPTH R&R  
CONSTRUCTION SCOPE AND SEQUENCING

PERFORM WORK ON THIS STREET IN ACCORDANCE WITH THE "SCHEDULE OF STREETS". COMPLETE THE WORK IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS, AND AS DIRECTED BY THE ENGINEER. CONSTRUCTION ON THIS STREET INCLUDES, BUT IS NOT LIMITED TO, THE WORK ITEMS LISTED BELOW. PERFORM THE WORK IN THE ORDER INDICATED UNLESS OTHERWISE AUTHORIZED OR DIRECTED BY THE ENGINEER AND NOT UNTIL LOCATING ALL UNDERGROUND UTILITIES IN ACCORDANCE WITH THE REQUIREMENTS NOTED ON THE PLANS AND IN THE CONTRACT SPECIFICATIONS.

1. INSTALL NO PARKING SIGNS (AS REQUIRED), AND ONCE THE SIGNS ARE ENFORCEABLE IMPLEMENT THE MAINTENANCE OF TRAFFIC (M.O.T.) PLAN AND PERMISSIBLE TRAFFIC RESTRICTIONS, AND INSTALL SOIL EROSION AND SEDIMENTATION CONTROL (SESC) MEASURES.
2. PERFORM SAWCUTS FOR HOT MIX ASPHALT (HMA) AND CONCRETE REMOVAL AS IDENTIFIED AND DIRECTED BY THE ENGINEER.
3. CONDUCT REMOVAL WORK RELATED TO: EXPOSING THE GUTTER PAN IF OVERLAYED; PAVEMENT; CURB REPAIR, AND CONCRETE ITEMS WITH EXCEPTION TO COLD MILLING.
4. INSTALL PROPOSED DRAINAGE STRUCTURES, STORM SEWER, AND UNDERDRAIN AS REQUIRED.
5. PERFORM ALL CONCRETE WORK, INCLUDING RESTORATION, AS REQUIRED.
6. TEMPORARY LOWER ALL STRUCTURE COVERS LOCATED WITHIN THE EXISTING PAVEMENT, INCLUDING GATE AND MONUMENT BOXES AS REQUIRED. COORDINATE THE LOWERING OF PRIVATE UTILITY STRUCTURE COVERS AND BOXES WITH APPLICABLE UTILITY OWNER.
7. REMOVE ALL OF THE EXISTING HMA SURFACE (FULL DEPTH - APPROXIMATELY 4 INCHES) BY COLD MILLING. THIS MAY ALSO INCLUDE REMOVAL OF THE ROAD BASE MATERIAL TO A DEPTH DETERMINED BY THE ENGINEER.
8. PROOF ROLL AND PERFORM UNDERCUTS AND/OR BASE REPAIRS AS DIRECTED BY THE ENGINEER.
9. PLACE AGGREGATE BASE MATERIAL AS REQUIRED AND DIRECTED BY THE ENGINEER.
10. GRADE, SHAPE, AND COMPACT THE EXISTING/PLACED BASE MATERIAL AS DIRECTED BY THE ENGINEER.
11. UPON APPROVAL FROM THE ENGINEER PLACE 2.0 INCH HOT MIX ASPHALT (HMA) LEVELING COURSE USING 5EL HMA MIXTURE.
12. CLEAN PAVEMENT AND PLACE SIDE STREET HMA APPROACHES (LEVELING COURSE) AS REQUIRED.
13. CLEAN PAVEMENT AND WITH APPROVAL FROM THE ENGINEER PLACE 2.0 INCH HMA TOP COURSE USING 5EL HMA MIXTURE.
14. CLEAN PAVEMENT AND PLACE SIDE STREET HMA APPROACHES (TOP COURSE) AS REQUIRED.
15. CLEAN PAVEMENT AND PLACE HMA APPROACHES OR WEDGING FOR DRIVEWAYS AS REQUIRED.
16. CORE TOP COURSE PAVEMENT AND ADJUST ALL STRUCTURE COVERS, INCLUDING GATE AND MONUMENT BOXES, TO THEIR FINISHED ELEVATIONS. COORDINATE THE ADJUSTMENT OF PRIVATE UTILITY STRUCTURES AND BOXES WITH APPLICABLE UTILITY OWNER.
17. CLEAN PAVEMENT AND COMPLETE ALL PAVEMENT MARKINGS AS REQUIRED.
18. COMPLETE ALL MISCELLANEOUS CONSTRUCTION INCLUDING CLEANING OF STRUCTURES, ALL OTHER NECESSARY CLEAN UP, AND FINAL RESTORATION.
19. REMOVE ALL SESC MEASURES, NO PARKING SIGNS, MISS DIG FLAGS, AND TEMPORARY TRAFFIC CONTROL DEVICES.
20. OPEN STREET TO TRAFFIC UPON APPROVAL OF THE ENGINEER.

QUANTITIES		
Item Description	Unit	Quantities
Erosion Control, Inlet Protection, Fabric Drop	Ea	10.00
Sign, Type B, Temp, Prismatic, Furn & Oper	Sft	43.00
Sign, Type B, Temp, Prismatic, Special, Furn & Oper	Sft	8.00
Temporary "No Parking" Sign	Ea	50.00
Plastic Drum, High Intensity, Lighted, Furn & Oper	Ea	20.00
Channelizer Cone, High Intensity, 42 In., Furn & Oper	Ea	75.00
Barricade, Type III, High Intensity, Lighted, Furn & Oper	Ea	2.00
Pedestrian Type II Barricade, Temp, Furn & Oper	Ea	8.00
Temporary Pedestrian Mat, Furn & Oper	Ft	400.00
Cold-Milling HMA Surface	Syd	5330.00
Curb, Gutter, and Curb and Gutter, Any Type, Rem	Ft	1620.00
Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	Sft	951.00
Grading Roadway	Syd	5330.00
Undercutting, Type IIA	Cyd	535.00
Adjust Structure Cover	Ea	16.00
Structure Frame	Ea	3.00
Structure Covers	Ea	3.00
Adjust Monument Box or Gate Valve Box	Ea	1.00
12 In., PE Storm Sewer, SD-TD-2	Ft	50.00
Storm Single Inlet, 24 In., Dia., (0-8' deep)	Ea	10.00
Storm Sewer Pipe, 12 in. Dia., Rem	Ft	50.00
Storm Sewer Structure, Rem	Ea	10.00
Storm Structure Cover, Type K	Ea	13.00
Underdrain, Subgrade, 6 inch	Ft	200.00
Curb Box, Adjust	Ea	2.00
HMA, 5EL	Ton	1175.00
Conc, Curb or Curb & Gutter, All Types	Ft	864.00
Conc, Driveway Opening, Type M	Ft	655.00
Conc, Sidewalk, 4 in	Sft	243.00
Conc, Sidewalk or Ramp, 6 inch	Sft	672.00
Driveway, Nonreinf Conc, 6 inch, Modified	Sft	36.00
Detectable Warning Surface	Ft	80.00
Pavt Mrkg, Thermopl, 12 In., Crosswalk	Ft	544.00
Pavt Mrkg, Thermopl, 24 In., Stop Bar	Ft	75.00
Turf Restoration	Syd	540.00



		2/13/24	1/25/24		
		ADDENDUM 1	BID SET	DATE	DRAWN
		01	00		REV.

CITY OF ANN ARBOR  
PUBLIC SERVICES  
301 EAST HURON STREET  
ANN ARBOR, MI 48107-8647  
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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING  
SCALE  
DRAWING No. 2024004-17  
SHEET No. 17 OF 30

MASON AVE.  
17 - SUBSET COVER SHEET

T:\2024004\Plan Production\Mason Ave.dwg - \_a2 standard bw.stb - Plot Date: 2/13/2024 4:44:54 PM









# CITY OF ANN ARBOR ENGINEERING N. ASHLEY ST.

RFP-24-04, FILE No. 2024004

**NOTES:**

FOR PROTECTION OF UNDERGROUND UTILITIES AND IN CONFORMANCE WITH PUBLIC ACT 174 OF 2013, THE CONTRACTOR SHALL CALL 811 OR 1-800-482-7171 A MINIMUM OF THREE FULL WORKING DAYS, EXCLUDING SATURDAYS, SUNDAYS, AND HOLIDAYS, PRIOR TO BEGINNING EACH EXCAVATION IN AREAS WHERE PUBLIC UTILITIES HAVE NOT BEEN PREVIOUSLY LOCATED. MEMBERS WILL THUS BE ROUTINELY NOTIFIED. THIS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF NOTIFYING UTILITY OWNERS WHO MAY NOT BE A PART OF THE "MISS DIG" ALERT SYSTEM.

THE UNDERGROUND LOCATIONS SHOWN FOR NATURAL GAS, TELEPHONE, ELECTRICAL POWER, CABLE TV AND FIBER OPTIC LINES ARE APPROXIMATE. THE CITY OF ANN ARBOR ASSUMES NO RESPONSIBILITY FOR THEIR ACCURATE REPRESENTATION IN THIS DRAWING. MISS DIG MUST BE CONTACTED PRIOR TO CONSTRUCTION TO LOCATE THESE UTILITIES.

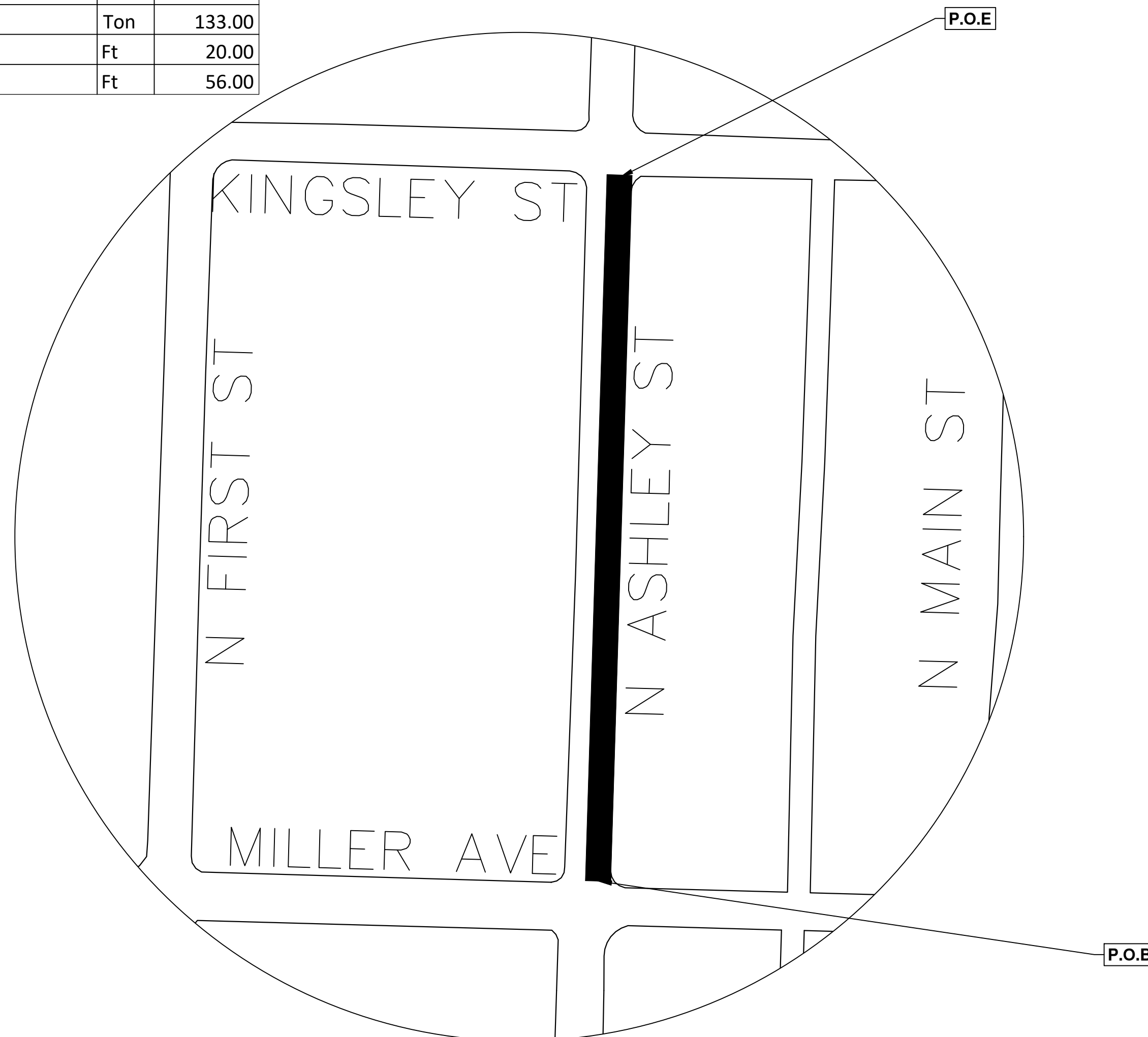
THE CONSTRUCTION COVERED BY THESE PLANS SHALL CONFORM TO THE CITY OF ANN ARBOR PUBLIC SERVICES AREA DESIGN STANDARDS AND CONSTRUCTION SPECIFICATIONS ("STANDARDS"). THE OMISSION OF ANY STANDARD DETAIL DOES NOT RELIEVE THE CONTRACTOR OF THEIR OBLIGATION TO CONSTRUCT ITEMS IN COMPLETE ACCORDANCE WITH THOSE STANDARDS.

2" MILL & FILL  
CONSTRUCTION SCOPE AND SEQUENCING

PERFORM WORK ON THIS STREET IN ACCORDANCE WITH THE "SCHEDULE OF STREETS". COMPLETE THE WORK IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS, AND AS DIRECTED BY THE ENGINEER. CONSTRUCTION ON THIS STREET INCLUDES, BUT IS NOT LIMITED TO, THE WORK ITEMS LISTED BELOW. PERFORM THE WORK IN THE ORDER INDICATED UNLESS OTHERWISE AUTHORIZED OR DIRECTED BY THE ENGINEER AND NOT UNTIL LOCATING ALL UNDERGROUND UTILITIES IN ACCORDANCE WITH THE REQUIREMENTS NOTED ON THE PLANS AND IN THE CONTRACT SPECIFICATIONS.

1. INSTALL NO PARKING SIGNS (AS REQUIRED), AND ONCE THE SIGNS ARE ENFORCEABLE IMPLEMENT THE MAINTENANCE OF TRAFFIC (M.O.T.) PLAN AND PERMISSIBLE TRAFFIC RESTRICTIONS, AND INSTALL SOIL EROSION AND SEDIMENTATION CONTROL (SESC) MEASURES.
2. PERFORM SAWCUTS FOR HOT MIX ASPHALT (HMA) AND CONCRETE REMOVAL AS IDENTIFIED AND DIRECTED BY THE ENGINEER.
3. CONDUCT REMOVAL WORK RELATED TO: EXPOSING THE GUTTER PAN IF OVERLAYED; PAVEMENT, CURB REPAIRS; AND CONCRETE ITEMS WITH EXCEPTION TO COLD MILLING.
4. PERFORM ALL CONCRETE WORK, INCLUDING RESTORATION, AS REQUIRED.
5. REMOVE EXISTING HMA SURFACE (PARTIAL DEPTH - 2 INCHES) BY COLD MILLING. THIS MAY ALSO INCLUDE ADDITIONAL HMA REMOVAL AND/OR BASE REPAIRS DIRECTED BY THE ENGINEER. PERFORM ANY FULL DEPTH PLUNGE CUTS WHERE REMAINING HMA HAS FAILED.
6. WHERE FULL DEPTH PLUNGE CUTS WERE REQUIRED, HAND PATCH UP TO BOTTOM OF TOP COURSE WITH HOT MIX ASPHALT (HMA), USING 5EL HMA.
7. CLEAN PAVEMENT AND WITH APPROVAL FROM THE ENGINEER PLACE 2.0 INCH HOT MIX ASPHALT (HMA) TOP COURSE USING 5EL HMA MIXTURE.
8. CLEAN PAVEMENT AND PLACE SIDE STREET HMA APPROACHES AS REQUIRED.
9. CLEAN PAVEMENT AND PLACE HMA APPROACHES OR WEDGING FOR DRIVEWAYS AS REQUIRED.
10. CORE PAVEMENT AND RAISE STRUCTURES TO FINISH GRADE, BEING CAREFUL TO KEEP TOP COURSE OF HMA CLEAN.
11. CLEAN PAVEMENT AND COMPLETE ALL PAVEMENT MARKINGS AS REQUIRED.
12. COMPLETE ALL MISCELLANEOUS CONSTRUCTION INCLUDING CLEANING OF STRUCTURES, ALL OTHER NECESSARY CLEAN UP, AND FINAL RESTORATION.
13. REMOVE ALL SESC MEASURES, NO PARKING SIGNS, MISS DIG FLAGS, AND TEMPORARY TRAFFIC CONTROL DEVICES.
14. OPEN STREET TO TRAFFIC UPON APPROVAL OF THE ENGINEER.

QUANTITIES		
Item Description	Unit	Quantities
Sign, Type B, Temp, Prismatic, Furn & Oper	Sft	149.00
Sign, Type B, Temp, Prismatic, Special, Furn & Oper	Sft	20.00
Plastic Drum, High Intensity, Lighted, Furn & Oper	Ea	10.00
Channelizer Cone, High Intensity, 42 In., Furn & Oper	Ea	23.00
Barricade, Type III, High Intensity, Lighted, Furn & Oper	Ea	2.00
Cold-Milling HMA Surface	Syd	1210.00
Cold Milling, Plunge Cut	Syd	120.00
HMA Surface, Around Structure Cover, Rem	Ea	9.00
Hand Patching	Ton	15.00
HMA, 5EML	Ton	133.00
Pavt Mrkg, Polyurea, 12 In., Crosswalk	Ft	20.00
Pavt Mrkg, Thermopl, 24 In., Stop Bar	Ft	56.00



NO.	DATE	DESCRIPTION	REV.
01	2/13/24	ADDENDUM 1	00
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ANN ARBOR MI 48106-6647  
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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING  
SCALE  
DRAWING No. 2024004-19  
SHEET No. 19 OF 30  
N. ASHLEY ST.  
19 - SUBSET COVER SHEET









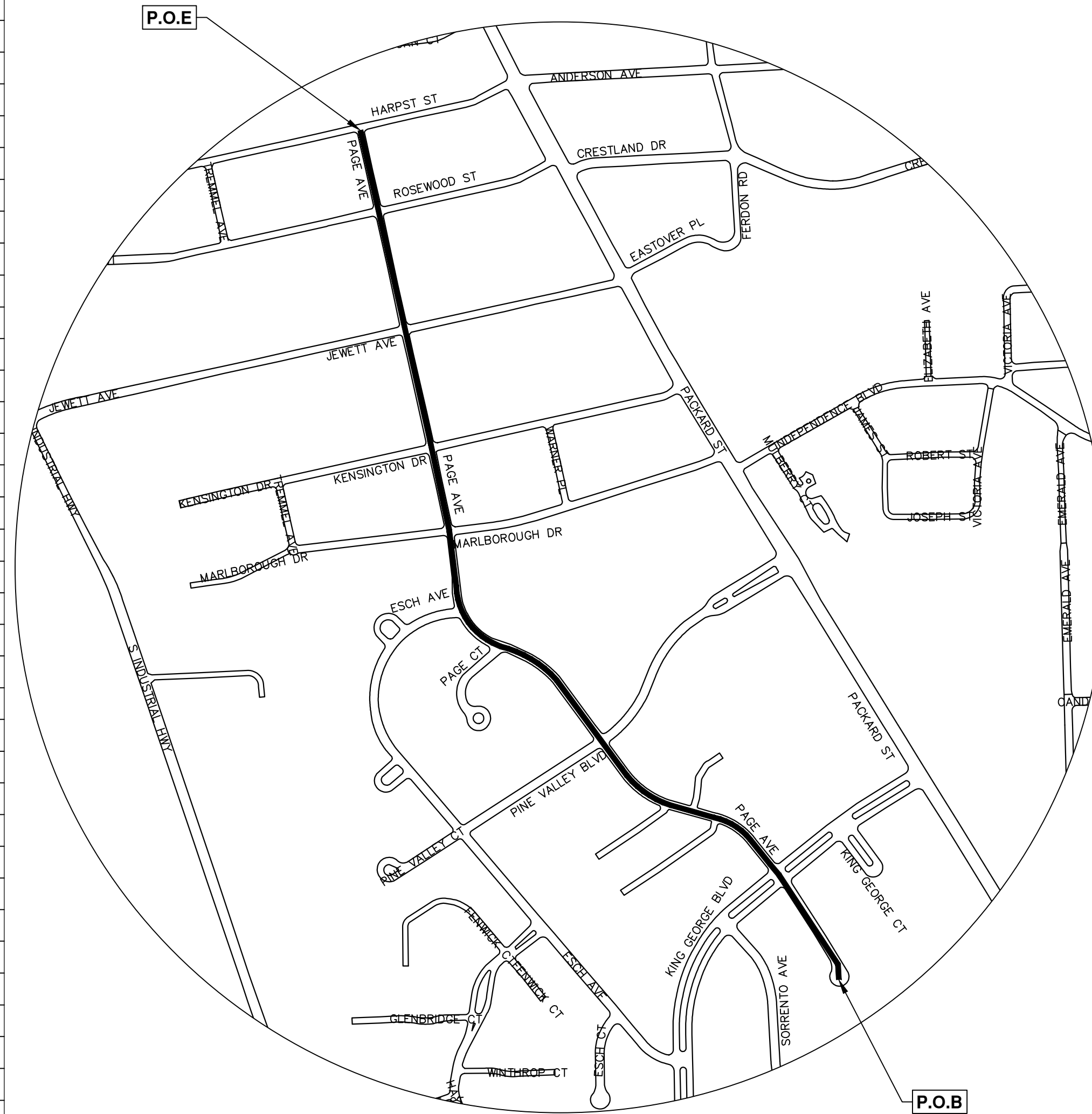




# CITY OF ANN ARBOR ENGINEERING PAGE AVE.

RFP-24-04, FILE No. 2024004

MORE DETAILED PLANS FOR THE SIDE WALK INSTALLATION WILL BE PROVIDED PRIOR TO THE START OF THE WORK.



**NOTES:**

FOR PROTECTION OF UNDERGROUND UTILITIES AND IN CONFORMANCE WITH PUBLIC ACT 174 OF 2013, THE CONTRACTOR SHALL CALL 811 OR 1-800-482-7171 A MINIMUM OF THREE FULL WORKING DAYS, EXCLUDING SATURDAYS, SUNDAYS, AND HOLIDAYS, PRIOR TO BEGINNING EACH EXCAVATION IN AREAS WHERE PUBLIC UTILITIES HAVE NOT BEEN PREVIOUSLY LOCATED. MEMBERS WILL THUS BE ROUTINELY NOTIFIED. THIS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF NOTIFYING UTILITY OWNERS WHO MAY NOT BE A PART OF THE "MISS DIG" ALERT SYSTEM.

THE UNDERGROUND LOCATIONS SHOWN FOR NATURAL GAS, TELEPHONE, ELECTRICAL POWER, CABLE TV AND FIBER OPTIC LINES ARE APPROXIMATE. THE CITY OF ANN ARBOR ASSUMES NO RESPONSIBILITY FOR THEIR ACCURATE REPRESENTATION IN THIS DRAWING. MISS DIG MUST BE CONTACTED PRIOR TO CONSTRUCTION TO LOCATE THESE UTILITIES.

THE CONSTRUCTION COVERED BY THESE PLANS SHALL CONFORM TO THE CITY OF ANN ARBOR PUBLIC SERVICES AREA DESIGN STANDARDS AND CONSTRUCTION SPECIFICATIONS ("STANDARDS"). THE OMISSION OF ANY STANDARD DETAIL DOES NOT RELIEVE THE CONTRACTOR OF THEIR OBLIGATION TO CONSTRUCT ITEMS IN COMPLETE ACCORDANCE WITH THOSE STANDARDS.

FULL DEPTH R&R  
CONSTRUCTION SCOPE AND SEQUENCING

PERFORM WORK ON THIS STREET IN ACCORDANCE WITH THE "SCHEDULE OF STREETS". COMPLETE THE WORK IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS, AND AS DIRECTED BY THE ENGINEER. CONSTRUCTION ON THIS STREET INCLUDES, BUT IS NOT LIMITED TO, THE WORK ITEMS LISTED BELOW. PERFORM THE WORK IN THE ORDER INDICATED UNLESS OTHERWISE AUTHORIZED OR DIRECTED BY THE ENGINEER AND NOT UNTIL LOCATING ALL UNDERGROUND UTILITIES IN ACCORDANCE WITH THE REQUIREMENTS NOTED ON THE PLANS AND IN THE CONTRACT SPECIFICATIONS.

- INSTALL NO PARKING SIGNS (AS REQUIRED), AND ONCE THE SIGNS ARE ENFORCEABLE IMPLEMENT THE MAINTENANCE OF TRAFFIC (M.O.T.) PLAN AND PERMISSIBLE TRAFFIC RESTRICTIONS, AND INSTALL SOIL EROSION AND SEDIMENTATION CONTROL (SESC) MEASURES.
- PERFORM SAWCUTS FOR HOT MIX ASPHALT (HMA) AND CONCRETE REMOVAL AS IDENTIFIED AND DIRECTED BY THE ENGINEER.
- CONDUCT REMOVAL WORK RELATED TO: EXPOSING THE GUTTER PAN IF OVERLAYED; PAVEMENT; CURB REPAIR, AND CONCRETE ITEMS WITH EXCEPTION TO COLD MILLING.
- INSTALL PROPOSED DRAINAGE STRUCTURES, STORM SEWER, AND UNDERDRAIN AS REQUIRED.
- PERFORM ALL CONCRETE WORK, INCLUDING RESTORATION, AS REQUIRED.
- TEMPORARILY LOWER ALL STRUCTURE COVERS LOCATED WITHIN THE EXISTING PAVEMENT, INCLUDING GATE AND MONUMENT BOXES AS REQUIRED. COORDINATE THE LOWERING OF PRIVATE UTILITY STRUCTURE COVERS AND BOXES WITH APPLICABLE UTILITY OWNER.
- REMOVE ALL OF THE EXISTING HMA SURFACE (FULL DEPTH - APPROXIMATELY 4 INCHES) BY COLD MILLING. THIS MAY ALSO INCLUDE REMOVAL OF THE ROAD BASE MATERIAL TO A DEPTH DETERMINED BY THE ENGINEER.
- PROOF ROLL AND PERFORM UNDERCUTS AND/OR BASE REPAIRS AS DIRECTED BY THE ENGINEER.
- PLACE AGGREGATE BASE MATERIAL AS REQUIRED AND DIRECTED BY THE ENGINEER.
- GRADE, SHAPE, AND COMPACT THE EXISTING/PLACED BASE MATERIAL AS DIRECTED BY THE ENGINEER.
- UPON APPROVAL FROM THE ENGINEER PLACE 2.0 INCH HOT MIX ASPHALT (HMA) LEVELING COURSE USING 5EL HMA MIXTURE.
- CLEAN PAVEMENT AND PLACE SIDE STREET HMA APPROACHES (LEVELING COURSE) AS REQUIRED.
- CLEAN PAVEMENT AND WITH APPROVAL FROM THE ENGINEER PLACE 2.0 INCH HMA TOP COURSE USING 5EL HMA MIXTURE.
- CLEAN PAVEMENT AND PLACE SIDE STREET HMA APPROACHES (TOP COURSE) AS REQUIRED.
- CLEAN PAVEMENT AND PLACE HMA APPROACHES OR WEDGING FOR DRIVEWAYS AS REQUIRED.
- ADD RAISED INTERSECTION AT PAGE AND JEWITT.
- CORE TOP COURSE PAVEMENT AND ADJUST ALL STRUCTURE COVERS, INCLUDING GATE AND MONUMENT BOXES, TO THEIR FINISHED ELEVATIONS. COORDINATE THE ADJUSTMENT OF PRIVATE UTILITY STRUCTURES AND BOXES WITH APPLICABLE UTILITY OWNER.
- CLEAN PAVEMENT AND COMPLETE ALL PAVEMENT MARKINGS AS REQUIRED.
- COMPLETE ALL MISCELLANEOUS CONSTRUCTION INCLUDING CLEANING OF STRUCTURES, ALL OTHER NECESSARY CLEAN UP, AND FINAL RESTORATION.
- REMOVE ALL SESC MEASURES, NO PARKING SIGNS, MISS DIG FLAGS, AND TEMPORARY TRAFFIC CONTROL DEVICES.
- OPEN STREET TO TRAFFIC UPON APPROVAL OF THE ENGINEER.

QUANTITIES		
Item Description	Unit	Quantities
Erosion Control, Inlet Protection, Fabric Drop	Ea	45.00
Sign, Type B, Temp, Prismatic, Furn & Oper	Sft	162.00
Sign, Type B, Temp, Prismatic, Special, Furn & Oper	Sft	16.00
Temporary "No Parking" Sign	Ea	104.00
Channelizer Cone, High Intensity, 42 In., Furn & Oper	Ea	150.00
Barricade, Type III, High Intensity, Lighted, Furn & Oper	Ea	10.00
Pedestrian Type II Barricade, Temp, Furn & Oper	Ea	8.00
Temporary Pedestrian Mat, Furn & Oper	Ft	700.00
Tree, Rem, 6 in. - 12 in.	Ea	3.00
Tree, Rem, 13 in. - 36 in.	Ea	4.00
HMA, Any Thickness, Rem	Syd	11999.00
Curb, Gutter, and Curb and Gutter, Any Type, Rem	Ft	2948.00
Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	Sft	251.00
Grading Roadway	Syd	11847.00
Grading, Sidewalk, Ramp & Driveway Approach	Sft	16020.00
Undercutting, Type IIA	Cyd	1205.00
Exploratory Excavation, (0-10' Deep ), SD-TD-1	Ea	4.00
Adjust Structure Cover	Ea	21.00
Structure Frame	Ea	22.00
Structure Covers	Ea	22.00
12 In., CL IV RCP Storm Sewer, SD-TD-1	Ft	215.00
12 In., PE Storm Sewer, SD-TD-2	Ft	48.00
Storm Sewer Tap, 12 In. Dia	Ea	10.00
Storm Inlet-Junction, 48 In., Dia., (0-8' deep)	Ea	4.00
Storm Single Inlet, 24 In., Dia., (0-8' deep)	Ea	7.00
Storm High Capacity Intet, 48 In. Dia., (0-8' deep)	Ea	1.00
Storm Sewer Pipe, 12 in. Dia., Rem	Ft	295.00
Storm Sewer Structure, Rem	Ea	18.00
Storm Structure Cover, Type K	Ea	8.00
Underdrain, Subgrade, 6 inch	Ft	156.00
Dr Structure, Point	Ea	8.00
Curb Box, Adjust	Ea	3.00
Aggregate Base Course, 21AA, CIP	Ton	460.00
Geotextile, Separator Fabric	Syd	2000.00
HMA, 5EL	Ton	2610.00
Conc, Curb or Curb & Gutter, All Types	Ft	1766.00
Conc, Driveway Opening, Type M	Ft	1242.00
Conc, Sidewalk, 4 in	Sft	8400.00
Conc, Sidewalk or Ramp, 6 inch	Sft	1288.00
Driveway, Nonreinf Conc, 6 inch, Modified	Sft	1900.00
Brick Pavers, Sidewalk, Rem and Reinstall	Sft	90.00
Raised Intersection, Conc	Syd	152.00
Detectable Warning Surface	Ft	140.00
Pavt Mrkg, Ovly Cold Plastic, Sharrow Sym	Ea	6.00
Pavt Mrkg, Polyurea, Speed Hump Chevron, White	Ea	8.00
Pavt Mrkg, Thermopl, 12 In., Crosswalk	Ft	900.00
Pavt Mrkg, Thermopl, 24 In., Stop Bar	Ft	225.00
Fence, Rem	Ft	110.00
Turf Restoration	Syd	1600.00



01	ADDENDUM 1	2/13/24	CE	CE	DATE	DRAWN	CHECKED
00	BID SET	1/25/24	CE	CE	DATE	DRAWN	CHECKED

CITY OF ANN ARBOR  
PUBLIC SERVICES  
301 EAST HURON STREET  
ANN ARBOR, MI 48107-8647  
ANN ARBOR 734.794.4410  
WWW.A2gov.ORG



CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING  
PAGE AVE.  
22 - SUBSET COVER SHEET  
DRAWING No. 2024004-22  
SHEET No. 22 OF 30





# CITY OF ANN ARBOR ENGINEERING SUNNYWOOD DR.

RFP-24-04, FILE No. 2024004

**NOTES:**

FOR PROTECTION OF UNDERGROUND UTILITIES AND IN CONFORMANCE WITH PUBLIC ACT 174 OF 2013, THE CONTRACTOR SHALL CALL 811 OR 1-800-482-7171 A MINIMUM OF THREE FULL WORKING DAYS, EXCLUDING SATURDAYS, SUNDAYS, AND HOLIDAYS, PRIOR TO BEGINNING EACH EXCAVATION IN AREAS WHERE PUBLIC UTILITIES HAVE NOT BEEN PREVIOUSLY LOCATED. MEMBERS WILL THUS BE ROUTINELY NOTIFIED. THIS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF NOTIFYING UTILITY OWNERS WHO MAY NOT BE A PART OF THE "MISS DIG" ALERT SYSTEM.

THE UNDERGROUND LOCATIONS SHOWN FOR NATURAL GAS, TELEPHONE, ELECTRICAL POWER, CABLE TV AND FIBER OPTIC LINES ARE APPROXIMATE. THE CITY OF ANN ARBOR ASSUMES NO RESPONSIBILITY FOR THEIR ACCURATE REPRESENTATION IN THIS DRAWING. MISS DIG MUST BE CONTACTED PRIOR TO CONSTRUCTION TO LOCATE THESE UTILITIES.

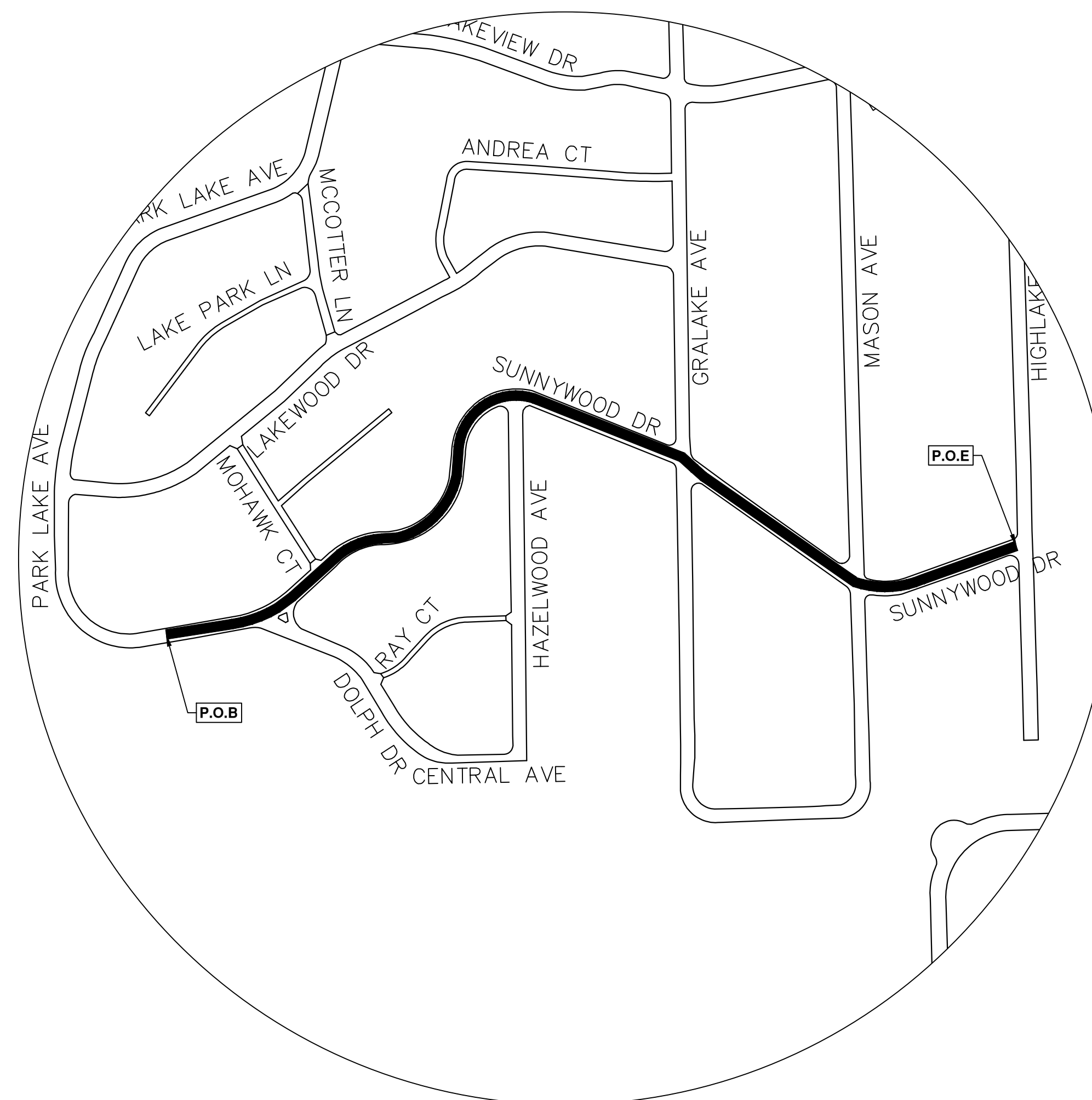
THE CONSTRUCTION COVERED BY THESE PLANS SHALL CONFORM TO THE CITY OF ANN ARBOR PUBLIC SERVICES AREA DESIGN STANDARDS AND CONSTRUCTION SPECIFICATIONS ("STANDARDS"). THE OMISSION OF ANY STANDARD DETAIL DOES NOT RELIEVE THE CONTRACTOR OF THEIR OBLIGATION TO CONSTRUCT ITEMS IN COMPLETE ACCORDANCE WITH THOSE STANDARDS.

FULL DEPTH R&R  
CONSTRUCTION SCOPE AND SEQUENCING

PERFORM WORK ON THIS STREET IN ACCORDANCE WITH THE "SCHEDULE OF STREETS". COMPLETE THE WORK IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS, AND AS DIRECTED BY THE ENGINEER. CONSTRUCTION ON THIS STREET INCLUDES, BUT IS NOT LIMITED TO, THE WORK ITEMS LISTED BELOW. PERFORM THE WORK IN THE ORDER INDICATED UNLESS OTHERWISE AUTHORIZED OR DIRECTED BY THE ENGINEER AND NOT UNTIL LOCATING ALL UNDERGROUND UTILITIES IN ACCORDANCE WITH THE REQUIREMENTS NOTED ON THE PLANS AND IN THE CONTRACT SPECIFICATIONS.

1. INSTALL NO PARKING SIGNS (AS REQUIRED), AND ONCE THE SIGNS ARE ENFORCEABLE IMPLEMENT THE MAINTENANCE OF TRAFFIC (M.O.T.) PLAN AND PERMISSIBLE TRAFFIC RESTRICTIONS, AND INSTALL SOIL EROSION AND SEDIMENTATION CONTROL (SESC) MEASURES.
2. PERFORM SAWCUTS FOR HOT MIX ASPHALT (HMA) AND CONCRETE REMOVAL AS IDENTIFIED AND DIRECTED BY THE ENGINEER.
3. CONDUCT REMOVAL WORK RELATED TO: EXPOSING THE GUTTER PAN IF OVERLAPPED; PAVEMENT; CURB REPAIR, AND CONCRETE ITEMS WITH EXCEPTION TO COLD MILLING.
4. INSTALL PROPOSED DRAINAGE STRUCTURES, STORM SEWER, AND UNDERDRAIN AS REQUIRED.
5. PERFORM ALL CONCRETE WORK, INCLUDING RESTORATION, AS REQUIRED.
6. TEMPORARY LOWER ALL STRUCTURE COVERS LOCATED WITHIN THE EXISTING PAVEMENT, INCLUDING GATE AND MONUMENT BOXES AS REQUIRED. COORDINATE THE LOWERING OF PRIVATE UTILITY STRUCTURE COVERS AND BOXES WITH APPLICABLE UTILITY OWNER.
7. REMOVE ALL OF THE EXISTING HMA SURFACE (FULL DEPTH - APPROXIMATELY 4 INCHES) BY COLD MILLING. THIS MAY ALSO INCLUDE REMOVAL OF THE ROAD BASE MATERIAL TO A DEPTH DETERMINED BY THE ENGINEER.
8. PROOF ROLL AND PERFORM UNDERCUTS AND/OR BASE REPAIRS AS DIRECTED BY THE ENGINEER.
9. PLACE AGGREGATE BASE MATERIAL AS REQUIRED AND DIRECTED BY THE ENGINEER.
10. GRADE, SHAPE, AND COMPACT THE EXISTING/PLACED BASE MATERIAL AS DIRECTED BY THE ENGINEER.
11. UPON APPROVAL FROM THE ENGINEER PLACE 2.0 INCH HOT MIX ASPHALT (HMA) LEVELING COURSE USING 5EL HMA MIXTURE.
12. CLEAN PAVEMENT AND PLACE SIDE STREET HMA APPROACHES (LEVELING COURSE) AS REQUIRED.
13. CLEAN PAVEMENT AND WITH APPROVAL FROM THE ENGINEER PLACE 2.0 INCH HMA TOP COURSE USING 5EL HMA MIXTURE.
14. CLEAN PAVEMENT AND PLACE SIDE STREET HMA APPROACHES (TOP COURSE) AS REQUIRED.
15. CLEAN PAVEMENT AND PLACE HMA APPROACHES OR WEDGING FOR DRIVEWAYS AS REQUIRED.
16. CORE TOP COURSE PAVEMENT AND ADJUST ALL STRUCTURE COVERS, INCLUDING GATE AND MONUMENT BOXES, TO THEIR FINISHED ELEVATIONS. COORDINATE THE ADJUSTMENT OF PRIVATE UTILITY STRUCTURES AND BOXES WITH APPLICABLE UTILITY OWNER.
17. CLEAN PAVEMENT AND COMPLETE ALL PAVEMENT MARKINGS AS REQUIRED.
18. COMPLETE ALL MISCELLANEOUS CONSTRUCTION INCLUDING CLEANING OF STRUCTURES, ALL OTHER NECESSARY CLEAN UP, AND FINAL RESTORATION.
19. REMOVE ALL SESC MEASURES, NO PARKING SIGNS, MISS DIG FLAGS, AND TEMPORARY TRAFFIC CONTROL DEVICES.
20. OPEN STREET TO TRAFFIC UPON APPROVAL OF THE ENGINEER.

QUANTITIES		
Item Description	Unit	Quantities
Erosion Control, Inlet Protection, Fabric Drop	Ea	13.00
Sign, Type B, Temp, Prismatic, Furn & Oper	Sft	100.00
Temporary "No Parking" Sign	Ea	50.00
Plastic Drum, High Intensity, Lighted, Furn & Oper	Ea	20.00
Channelizer Cone, High Intensity, 42 In., Furn & Oper	Ea	75.00
Barricade, Type III, High Intensity, Lighted, Furn & Oper	Ea	8.00
Pedestrian Type II Barricade, Temp, Furn & Oper	Ea	10.00
Temporary Pedestrian Mat, Furn & Oper	Ft	20.00
HMA, Any Thickness, Rem	Syd	49.00
HMA Patch, Rem	Syd	36.00
Cold-Milling HMA Surface	Syd	5613.00
Curb, Gutter, and Curb and Gutter, Any Type, Rem	Ft	1082.00
Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	Sft	180.00
Grading Roadway	Syd	5613.00
Undercutting, Type IIA	Cyd	560.00
Adjust Structure Cover	Ea	33.00
Structure Frame	Ea	23.00
Structure Covers	Ea	23.00
Adjust Monument Box or Gate Valve Box	Ea	2.00
12 In., PE Storm Sewer, SD-TD-2	Ft	70.00
Storm Single Inlet, 24 In., Dia., (0-8' deep)	Ea	7.00
Storm Sewer Pipe, 12 in. Dia., Rem	Ft	70.00
Storm Sewer Structure, Rem	Ea	7.00
Storm Structure Cover, Type K	Ea	10.00
Underdrain, Subgrade, 6 inch	Ft	100.00
Dr Structure, Point	Ea	3.00
Hand Patching	Ton	25.00
HMA, 5EL	Ton	985.00
HMA, Wedging	Ton	6.00
Conc, Curb or Curb & Gutter, All Types	Ft	675.00
Conc, Driveway Opening, Type M	Ft	407.00
Conc, Sidewalk or Ramp, 6 inch	Sft	150.00
Driveway, Nonreinf Conc, 6 inch, Modified	Sft	180.00
Detectable Warning Surface	Ft	4.00
Pavt Mrkg, Thermopl, 12 In., Crosswalk	Ft	256.00
Pavt Mrkg, Thermopl, 24 In., Stop Bar	Ft	30.00
Turf Restoration	Syd	360.00



01	ADDENDUM 1	2/13/24	CE	CE	DATE	DRAWN	CHECKED
00	BID SET	1/25/24					
						DESCRIPTION	REV.

CITY OF ANN ARBOR  
PUBLIC SERVICES  
301 EAST HURON STREET  
ANN ARBOR, MI 48106-8647  
www.aagov.org



CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING  
SUNNYWOOD DR.  
23 - SUBSET COVER SHEET  
DRAWING No. 2024004-23

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# CITY OF ANN ARBOR ENGINEERING GLAIZERWAY SHARED USE PATH

RFP-24-04, FILE No. 2024004

**NOTES:**

FOR PROTECTION OF UNDERGROUND UTILITIES AND IN CONFORMANCE WITH PUBLIC ACT 174 OF 2013, THE CONTRACTOR SHALL CALL 811 OR 1-800-482-7171 A MINIMUM OF THREE FULL WORKING DAYS, EXCLUDING SATURDAYS, SUNDAYS, AND HOLIDAYS, PRIOR TO BEGINNING EACH EXCAVATION IN AREAS WHERE PUBLIC UTILITIES HAVE NOT BEEN PREVIOUSLY LOCATED. MEMBERS WILL THUS BE ROUTINELY NOTIFIED. THIS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF NOTIFYING UTILITY OWNERS WHO MAY NOT BE A PART OF THE "MISS DIG" ALERT SYSTEM.

THE UNDERGROUND LOCATIONS SHOWN FOR NATURAL GAS, TELEPHONE, ELECTRICAL POWER, CABLE TV AND FIBER OPTIC LINES ARE APPROXIMATE. THE CITY OF ANN ARBOR ASSUMES NO RESPONSIBILITY FOR THEIR ACCURATE REPRESENTATION IN THIS DRAWING. MISS DIG MUST BE CONTACTED PRIOR TO CONSTRUCTION TO LOCATE THESE UTILITIES.

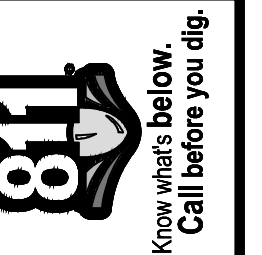
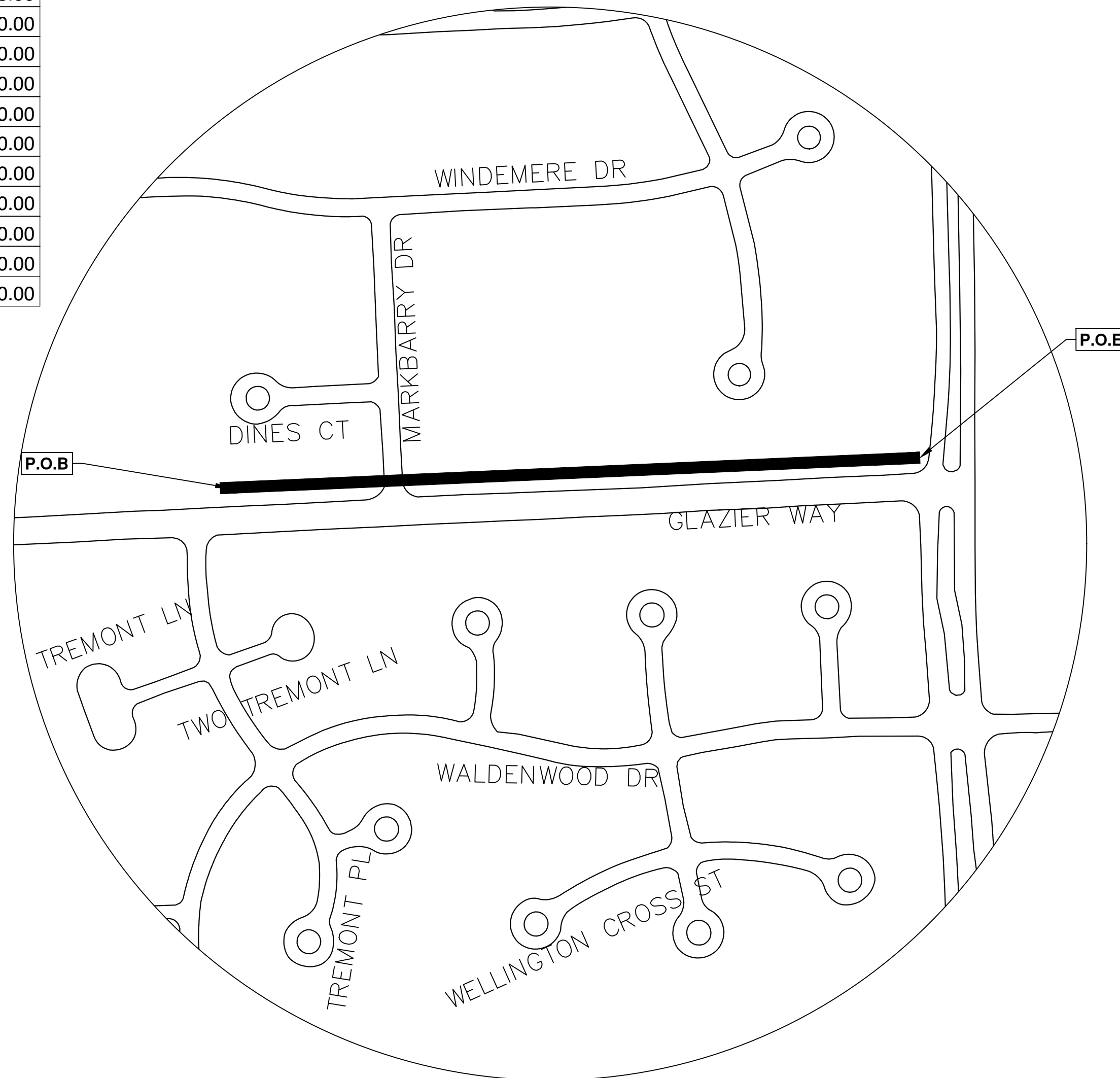
THE CONSTRUCTION COVERED BY THESE PLANS SHALL CONFORM TO THE CITY OF ANN ARBOR PUBLIC SERVICES AREA DESIGN STANDARDS AND CONSTRUCTION SPECIFICATIONS ("STANDARDS"). THE OMISSION OF ANY STANDARD DETAIL DOES NOT RELIEVE THE CONTRACTOR OF THEIR OBLIGATION TO CONSTRUCT ITEMS IN COMPLETE ACCORDANCE WITH THOSE STANDARDS.

ASPHALT PATH/CONCRETE SIDEWALK GLAZIER WAY  
CONSTRUCTION SCOPE AND SEQUENCING

PERFORM WORK ON THIS SHARED USE PATH/ASPHALT SIDEWALK IN ACCORDANCE WITH THE "SCHEDULE OF STREETS". COMPLETE THE WORK IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS, AND AS DIRECTED BY THE ENGINEER. CONSTRUCTION ON THIS STREET INCLUDES, BUT IS NOT LIMITED TO, THE WORK ACTIVITIES LISTED BELOW. PERFORM THE WORK IN THE ORDER INDICATED UNLESS OTHERWISE AUTHORIZED OR DIRECTED BY THE ENGINEER AND NOT UNTIL LOCATING ALL UNDERGROUND UTILITIES IN ACCORDANCE WITH THE REQUIREMENTS NOTED ON THE PLANS AND IN THE CONTRACT SPECIFICATIONS. OBTAIN AN APPROVED MAINTENANCE OF TRAFFIC (M.O.T.) PLAN FROM THE ENGINEER PRIOR TO COMMENCING WITH ANY WORK. ANY/ALL TEMPORARY LANE CLOSURES REQUIRED FOR THIS WORK SHALL SET UP AND REMOVED, RESPECTIVELY, AT THE BEGINNING AND END OF EACH WORK DAY.

1. IMPLEMENT M.O.T. PLAN AND PERMISSIBLE TRAFFIC RESTRICTIONS, AND INSTALL SOIL EROSION AND SEDIMENTATION CONTROL (SESC) MEASURES.
2. TRIMMING/PRUNING VEGETATION AS NECESSARY ALONG EACH SIDE OF THE PATH.
3. PERFORM SAWCUTS FOR HOT MIX ASPHALT (HMA) AND CONCRETE REMOVAL AS IDENTIFIED AND DIRECTED BY THE ENGINEER.
4. COMPLETE NECESSARY HMA SURFACE AND CONCRETE SIDEWALK/PAVEMENT REMOVAL AND EARTHWORK/GRADING AS REQUIRED TO ACHIEVE A CONSISTENT 5 FOOT, OR 8 FOOT WIDTH (WHERE LESS THAN 2 FT GREEN SPACE CAN BE MET BETWEEN BACK OF CURB AND EDGE OF SIDEWALK), ON GLAZIER WAY, FOR ITS ENTIRE LENGTH AND TO MATCH GRADES OF EXISTING REMAINING FACILITIES ADJACENT TO THE PATH (E.I., SIDEWALKS, SHARED USE PATHS, RAMPS, CURB CUTS, DRIVEWAYS, ETC.) ALL AS DIRECTED BY THE ENGINEER.
5. UPON APPROVAL OF THE SUBGRADE BY THE ENGINEER PLACE 4.0 INCH BASE AGGREGATE..
6. UPON APPROVAL FROM THE ENGINEER PLACE: CONCRETE CURB AND GUTTER; CURB OPENINGS; 4.0 INCH CONCRETE SIDEWALK AND 6.0 INCH SIDEWALK AND RAMPS.
7. COMPLETE ALL SLOPE RESTORATION WORK.
8. COMPLETE ALL MISCELLANEOUS CONSTRUCTION INCLUDING CLEANING OF STRUCTURES AND PAVEMENT AND ALL OTHER NECESSARY CLEAN UP.
9. REMOVE ALL SESC MEASURES, MISS DIG FLAGS, AND TEMPORARY TRAFFIC CONTROL DEVICES.
10. OPEN SIDEWALK TO TRAFFIC UPON APPROVAL OF THE ENGINEER.

QUANTITIES		
Item Description	Unit	Quantities
Erosion Control, Inlet Protection, Fabric Drop	Ea	7.00
Sign, Type B, Temp, Prismatic, Furn & Oper	Sft	41.00
Sign, Type B, Temp, Prismatic, Special, Furn & Oper	Sft	12.00
Lighted Arrow, Type C, Furn & Oper	Ea	1.00
Plastic Drum, High Intensity, Lighted, Furn & Oper	Ea	15.00
Channelizer Cone, High Intensity, 42 In., Furn & Oper	Ea	30.00
Barricade, Type III, High Intensity, Lighted, Furn & Oper	Ea	4.00
Pedestrian Type II Barricade, Temp, Furn & Oper	Ea	8.00
Temporary Pedestrian Mat, Furn & Oper	Ft	50.00
HMA, Any Thickness, Rem	Syd	970.00
Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	Sft	40.00
Sidewalk Retaining Wall, Integral, 6 inch to 18 inch Height	Sft	20.00
Conc, Sidewalk, 4 in	Sft	6850.00
Conc, Sidewalk or Ramp, 6 inch	Sft	100.00
Driveway, Nonreinf Conc, 6 inch, Modified	Sft	120.00
Detectable Warning Surface	Ft	10.00
Turf Restoration	Syd	630.00
Grading, Sidewalk Ramp & Driveway Approach	Sft	5140.00



NO.	REVISION	DATE	DESCRIPTION
01	ADDENDUM 1	2/13/24	
00	BID SET	1/25/24	
			REV.

CITY OF ANN ARBOR  
PUBLIC SERVICES  
301 EAST HURON STREET  
ANN ARBOR, MI 48106-8647  
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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING  
GLAZIERWAY SHARED USE PATH  
26 - SUBSET COVER SHEET  
DRAWING No. 2024004-26

















"General Decision Number: MI20240001 01/05/2024

Superseded General Decision Number: MI20230001

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)(1).

<p>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:</p>	<ul style="list-style-type: none"> <li>. Executive Order 14026 generally applies to the contract.</li> <li>. The contractor must pay all covered workers at least \$17.20 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 2024.</li> </ul>
<p>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:</p>	<ul style="list-style-type: none"> <li>. Executive Order 13658 generally applies to the contract.</li> <li>. The contractor must pay all covered workers at least \$12.90 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 2024.</li> </ul>

The applicable Executive Order minimum wage rate will be adjusted annually. If this contract is covered by one of the Executive Orders and a classification considered necessary for performance of work on the contract does not appear on this wage determination, the contractor must still submit a conformance request.

Additional information on contractor requirements and worker protections under the Executive Orders is available at <http://www.dol.gov/whd/govcontracts>.

Modification Number      Publication Date  
 0                              01/05/2024

CARP0004-004 06/01/2019

REMAINDER OF STATE

	Rates	Fringes
CARPENTER ( Piledriver).....	\$ 27.62	20.59

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CARP0004-005 06/01/2018

LIVINGSTON (Townships of Brighton, Deerfield, Genoa, Hartland, Oceola & Tyrone), MACOMB, MONROE, OAKLAND, SANILAC, ST. CLAIR AND WAYNE COUNTIES

	Rates	Fringes
CARPENTER (Piledriver).....	\$ 30.50	27.28

-----  
ELEC0017-005 06/01/2023

STATEWIDE

	Rates	Fringes
Line Construction		
Groundman/Driver.....	\$ 29.24	7.20+32%
Journeyman Signal Tech, Communications Tech, Tower Tech & Fiber Optic Splicers.	\$ 52.02	7.20+32%
Journeyman Specialist.....	\$ 53.83	32%+7.20
Operator A.....	\$ 37.13	7.20+32%
Operator B.....	\$ 34.67	7.20+32%

Classifications

Journeyman Specialist: Refers to a crew of only one person 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.

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ENGI0324-003 06/01/2023

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.....	\$ 53.02	25.25
GROUP 2.....	\$ 54.02	25.25
GROUP 3.....	\$ 51.52	25.25
GROUP 4.....	\$ 52.52	25.25
GROUP 5.....	\$ 50.02	25.25
GROUP 6.....	\$ 51.02	25.25

GROUP 7.....	\$ 49.75	25.25
GROUP 8.....	\$ 50.75	25.25
GROUP 9.....	\$ 49.30	25.25
GROUP 10.....	\$ 50.30	25.25
GROUP 11.....	\$ 48.57	25.25
GROUP 12.....	\$ 49.57	25.25
GROUP 13.....	\$ 48.21	25.25
GROUP 14.....	\$ 49.21	25.25
GROUP 15.....	\$ 47.57	25.25
GROUP 16.....	\$ 44.37	25.25
GROUP 17.....	\$ 28.89	12.40
GROUP 18.....	\$ 33.38	25.25

## 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 06/01/2023

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.....	\$ 53.02	25.25
GROUP 2.....	\$ 49.75	25.25
GROUP 3.....	\$ 48.21	25.25
GROUP 4.....	\$ 44.37	25.25
GROUP 5.....	\$ 28.89	12.40
GROUP 6.....	\$ 33.38	25.25
AREA 2		
GROUP 1.....	\$ 53.02	25.25
GROUP 2.....	\$ 49.75	24.25
GROUP 3.....	\$ 48.21	25.25
GROUP 4.....	\$ 44.37	25.25
GROUP 5.....	\$ 28.89	12.40
GROUP 6.....	\$ 33.38	25.25

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  
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ENGI0324-005 09/01/2023

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.....	\$ 41.08	25.25
GROUP 2.....	\$ 36.25	25.25
GROUP 3.....	\$ 35.52	25.25
GROUP 4.....	\$ 34.95	25.25
GROUP 5.....	\$ 25.35	12.10

AREA 2:

GROUP 1.....	\$ 39.27	25.25
GROUP 2.....	\$ 34.38	25.25
GROUP 3.....	\$ 33.88	25.25
GROUP 4.....	\$ 33.60	25.25
GROUP 5.....	\$ 25.35	12.10

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

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ENGI0324-006 06/01/2023

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, LENAWEE, 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.....	\$ 40.46	25.25
GROUP 2.....	\$ 37.73	25.25
GROUP 3.....	\$ 33.17	25.55
GROUP 4.....	\$ 33.00	25.25

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.

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 ENGI0324-007 05/01/2023

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.....	\$ 38.50	25.00
Crane operator, main boom & jib 120' or longer.....	\$ 44.97	25.00
Crane operator, main boom & jib 140' or longer.....	\$ 44.17	24.60
Crane operator, main boom & jib 220' or longer.....	\$ 45.27	25.00
Mechanic with truck and tools.....	\$ 44.10	25.00
Oiler and fireman.....	\$ 39.96	25.00
Regular operator.....	\$ 42.32	25.00

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 ENGI0324-008 10/01/2022

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	14.77
GROUP 2.....	\$ 33.33	14.77

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 jettors and vacuum and mechanical debris removal systems

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ENGI0325-012 05/01/2023

Rates Fringes

Power equipment operators - gas distribution and duct installation work:

GROUP 1.....	\$ 36.18	25.25
GROUP 2.....	\$ 33.45	25.25

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.

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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.

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IRON0025-002 06/01/2023

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		
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:..	\$ 24.59	25.43
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...	\$ 25.81	26.43
IRONWORKER		
Ornamental and Structural...	\$ 34.50	38.44
Reinforcing.....	\$ 32.68	35.15

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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



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 IRON0292-003 06/01/2020

BERRIEN AND CASS COUNTIES:

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

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 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

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LAB00259-001 09/01/2023

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	16.93
GROUP 2.....	\$ 23.73	16.93
GROUP 3.....	\$ 23.79	16.93
GROUP 4.....	\$ 23.97	16.93
GROUP 5.....	\$ 24.22	16.93
GROUP 6.....	\$ 24.55	16.93
GROUP 7.....	\$ 17.83	16.93
AREA 2		
GROUP 1.....	\$ 27.57	16.93
GROUP 2.....	\$ 25.24	16.93
GROUP 3.....	\$ 25.34	16.93
GROUP 4.....	\$ 29.57	16.93
GROUP 5.....	\$ 25.76	16.93
GROUP 6.....	\$ 26.07	16.93
GROUP 7.....	\$ 25.57	16.93

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, tigger, 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.

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LAB00334-001 09/01/2022

Rates Fringes

Laborers - open cut:

ZONE 1 - MACOMB, OAKLAND AND WAYNE COUNTIES:

GROUP 1.....	\$ 23.47	16.72
GROUP 2.....	\$ 23.58	16.72
GROUP 3.....	\$ 23.63	16.72
GROUP 4.....	\$ 23.71	16.72
GROUP 5.....	\$ 24.17	16.72
GROUP 6.....	\$ 22.00	16.72
GROUP 7.....	\$ 17.84	16.72

ZONE 2 - LIVINGSTON COUNTY (east of M-151 (Oak Grove Rd.)); MONROE AND

WASHTENAW COUNTIES:

GROUP 1.....	\$ 25.20	16.72
GROUP 2.....	\$ 24.91	16.72
GROUP 3.....	\$ 25.03	16.72
GROUP 4.....	\$ 25.10	16.72
GROUP 5.....	\$ 25.25	16.72
GROUP 6.....	\$ 22.55	16.72
GROUP 7.....	\$ 22.11	16.72

ZONE 3 - CLINTON, EATON, GENESEE, HILLSDALE AND INGHAM COUNTIES; IONIA COUNTY (City of Portland); JACKSON, LAPEER AND LENAWEЕ COUNTIES; LIVINGSTON COUNTY (west of M-151 Oak Grove Rd.); SANILAC, ST. CLAIR AND SHIAWASSEE COUNTIES:

GROUP 1.....	\$ 23.39	16.72
GROUP 2.....	\$ 23.13	16.72
GROUP 3.....	\$ 23.25	16.72
GROUP 4.....	\$ 23.30	16.72
GROUP 5.....	\$ 23.44	16.72
GROUP 6.....	\$ 20.74	16.72
GROUP 7.....	\$ 22.23	16.72

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.....	\$ 22.42	16.72
GROUP 2.....	\$ 22.15	16.72
GROUP 3.....	\$ 22.26	16.72

GROUP 4.....	\$ 22.33	16.72
GROUP 5.....	\$ 22.45	16.72
GROUP 6.....	\$ 19.67	16.72
GROUP 7.....	\$ 22.30	16.72
ZONE 5 - ALGER, BARAGA, CHIPPEWA, DELTA, DICKINSON, GOGEBIC, HOUGHTON, IRON, KEWEENAW, LUCE, MACKINAC, MARQUETTE, MENOMINEE, ONTONAGON AND SCHOOLCRAFT COUNTIES:		
GROUP 1.....	\$ 22.24	16.72
GROUP 2.....	\$ 22.38	16.72
GROUP 3.....	\$ 22.51	16.72
GROUP 4.....	\$ 22.56	16.72
GROUP 5.....	\$ 22.64	16.72
GROUP 6.....	\$ 19.99	16.72
GROUP 7.....	\$ 22.45	16.72

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.

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LAB00465-001 06/01/2023

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.....	\$ 29.67	13.45
GROUP 2.....	\$ 29.88	13.45
GROUP 3.....	\$ 30.17	13.45
GROUP 4.....	\$ 30.61	13.45
GROUP 5.....	\$ 30.23	13.45
GROUP 6.....	\$ 30.66	13.45
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.

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LAB01076-005 04/01/2023

MICHIGAN STATEWIDE

	Rates	Fringes
LABORER (DISTRIBUTION WORK)		
Zone 1.....	\$ 25.17	13.32
Zone 2.....	\$ 24.22	13.45
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

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PAIN0022-002 07/01/2008

HILLSDALE, JACKSON AND LENAWE COUNTY; 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.

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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

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

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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.

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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.

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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
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.

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PLAS0514-001 06/01/2023

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.....	\$ 33.00	18.51
ZONE 2.....	\$ 31.50	18.51

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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

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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
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

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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

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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

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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.

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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 (\$17.20) or 13658 (\$12.90). Please see the Note at the top of the wage determination for more information. Please also note that the minimum wage requirements of Executive Order 14026 are not currently being enforced as to any contract or subcontract to which the states of Texas, Louisiana, or Mississippi, including their agencies, are a party.

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) (iii)).

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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.

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#### 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.

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END OF GENERAL DECISION"