



CITY OF ANN ARBOR ENGINEERING

STREET RESURFACING PROJECT - 2023

RFP# 23-17, FILE No. 2023-004

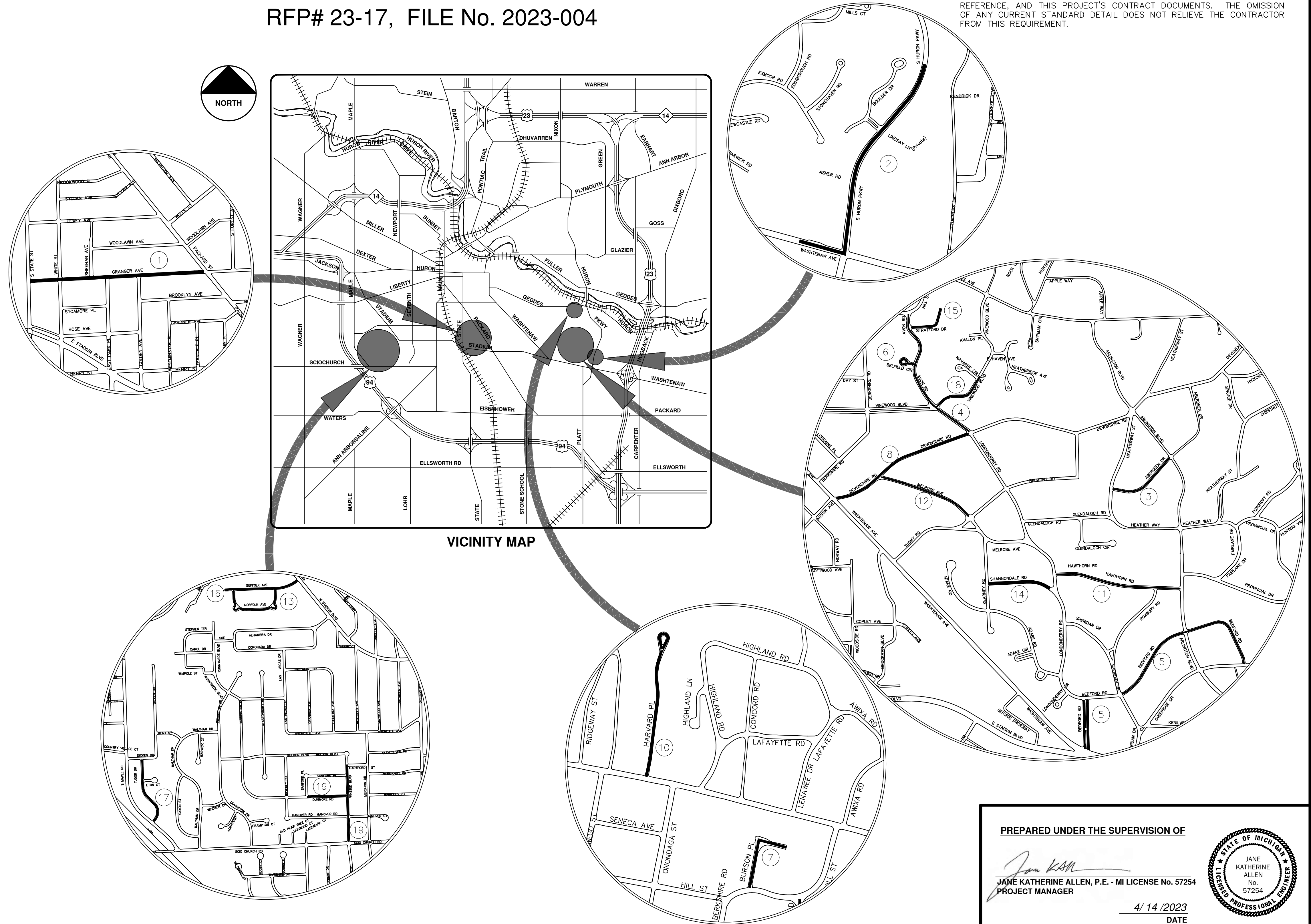
NOTES

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 1994 EDITION OF THE CITY OF ANN ARBOR PUBLIC SERVICES DEPARTMENT STANDARD SPECIFICATIONS, ITS DETAILS, WHICH ARE INCLUDED BY REFERENCE, AND THIS PROJECT'S CONTRACT DOCUMENTS. THE OMISSION OF ANY CURRENT STANDARD DETAIL DOES NOT RELIEVE THE CONTRACTOR FROM THIS REQUIREMENT.

SHEET INDEX		
SHEET NO.	TITLE	MAP INDEX NO. (THIS SHEET)
1	COVER SHEET	
2	NOTES AND MISCELLANEOUS QUANTITIES	
3	SOIL EROSION AND SEDIMENTATION CONTROL (SESC) NOTES AND DETAILS	
4-5	DETAILS	
5-6	TRAFFIC CALMING DETAILS	
11-12	LOCAL STREET TRAFFIC CONTROL PLANS	
13	GRANGER TRAFFIC CALMING	1
14	S. HURON PKWY HMA PATH	2
15	ABERDEENDR	3
16	AVON RD	4
17	BEDFORD RD	5
18	BELFIELD CIR	6
19	BURSON PL	7
20	DEVONSHIRE RD	8
21	DUNMOOR RD	9
22	HARVARD PL	10
23	HAWTHORNE RD	11
24	MELROSE RD	12
25	NORFOLK ST	13
26	SHANNONDALE RD	14
27	STRATFORD DR	15
28	SUFFOLK ST	16
29	TUDOR DR	17
30	VINEWOOD BLVD	18
31	WINSTEAD BLVD	19



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
STREET RESURFACING PROJECT - 2023
COVER SHEET

SCALE
DRAWING No.
2023-004-1
SHEET No.
1 OF 31

PREPARED UNDER THE SUPERVISION OF
Jane K. Allen
JANE KATHERINE ALLEN, P.E. - MI LICENSE No. 57254
PROJECT MANAGER
4/14/2023
DATE



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GENERAL 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.
- During non-working hours no more than ten (10) feet of trench shall remain open; any open trench shall be properly secured with protective fencing. This work shall be included in the items of work being undertaken and will not be paid for separately.
- The location of material stock piles and on-site staging areas shall be approved by the Engineer.
- For mainline HMA Paving, the width of the mat for each pass of the paver shall be not less than 10.5', nor greater than 16', 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.
- All excavation required to construct sidewalk and sidewalk ramps shall be included in the contract pay item "Grading, Sidewalk and Sidewalk Ramps".
- Some storm sewer may unavoidably become damaged during construction, or it may be determined by the Engineer that existing storm sewer needs to be replaced. In either case the Engineer may direct the sewer to be removed and replaced. The removal of existing sewer and drainage structures, as required, shall be included in the respective contract pay items "Sewer, Rem, Less than 24 inch" and "Dr Structure, Rem". The replacement sewer shall be installed and paid for at the corresponding contract unit price, if contained within the contract, for the various types and sizes of sewer to be replaced.
- The Contractor shall remove and stockpile on site at a location mutually agreed upon by the Contractor and Engineer any/all existing City owned structure covers designated for salvage, and within two days of their removal deliver them to the W.R. Wheeler Service Center (4251 Stone School Rd, Ann Arbor, MI). Any structure covers not designated for salvage shall become the property of the Contractor and disposed of, as required, by the Contractor.
- Payment for drainage structure sumps where specified shall be included in the payment for the various drainage structures sizes and/or types.
- Where 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 storm sewer is to be removed and replaced or added, all pipe shall be installed using the utility trench details shown elsewhere in the plan sheets and/or detailed in the specifications. Trench Details I and V require the use of MDOT Class II Granular Material.
- If the Contractor encounters existing edge drain(s) during construction of the proposed edge drains, inlet leads, or catch basins, it shall be capped at each end to prevent material from entering the pipe. The cost of this work will not be paid for separately, but shall be included in the particular item of work being performed when existing edge drain(s) are encountered.
- In areas where edge drain cannot be installed in accordance with the details, the edge drain shall be installed at the depth as indicated on the plans, or as directed by the Engineer. In no case shall the edge drain be installed at a grade less than 0.50% or at a depth less than 6 inches above the invert of the lowest outlet pipe.
- Existing street name signs, guide, bus stop, and regulatory signs 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 the contract pay item "Minor Traf Devices."
- All curb, sidewalk, driveway approach removals shall be approved by the Engineer before the work is performed.
- Place 4 inches (minimum) thickness Granular Material Class II compacted to 95% of its max. dry density under concrete sidewalk as shown on the details. This work shall be included in the contract item "Subbase, CIP."
- Place 6 inches (minimum) Granular Material Class II compacted to 95% of its max. dry density under concrete driveway approaches, and 6 inches (minimum) Dense-Graded Aggregate 21AA compacted to 98% of its max. dry density under HMA driveway approaches. This work shall be included in the respective contract pay items "Subbase, CIP" and "Aggregate Base, 6 inch, Modified".
- A uniform coat(s) of curing compound shall be applied according to the Standard Specifications and Special Provisions regardless of the difficulty involved. The Contractor shall take care to prevent overspray when applying curing compound. Several different methods may need to be developed to protect various situations, but all methods used to prevent overspray of the curing compound shall be completely effective. Methods used shall be approved by the Engineer prior to use, however approval of a method does not guarantee success or acceptability. No additional compensation shall be made for complying with these requirements.

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	

PERMITS REQUIRED TO BE OBTAINED BY THE CITY OF ANN ARBOR PRIOR TO THE BEGINNING OF CONSTRUCTION.

PERMIT	ISSUING AUTHORITY
EGLE WATER MAIN CONSTRUCTION PERMIT	MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY
EGLE SANITARY SEWER CONSTRUCTION PERMIT	MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

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		
STORM		
FORESTRY		
SIGNS SIGNALS STREET LIGHTS	MARK MORENO (734) 794-6361	
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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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
STREET RESURFACING PROJECT - 2023
NOTES & MISCELLANEOUS
QUANTITIES

SCALE: NTS
DRAWING No. 2023-004-2

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.

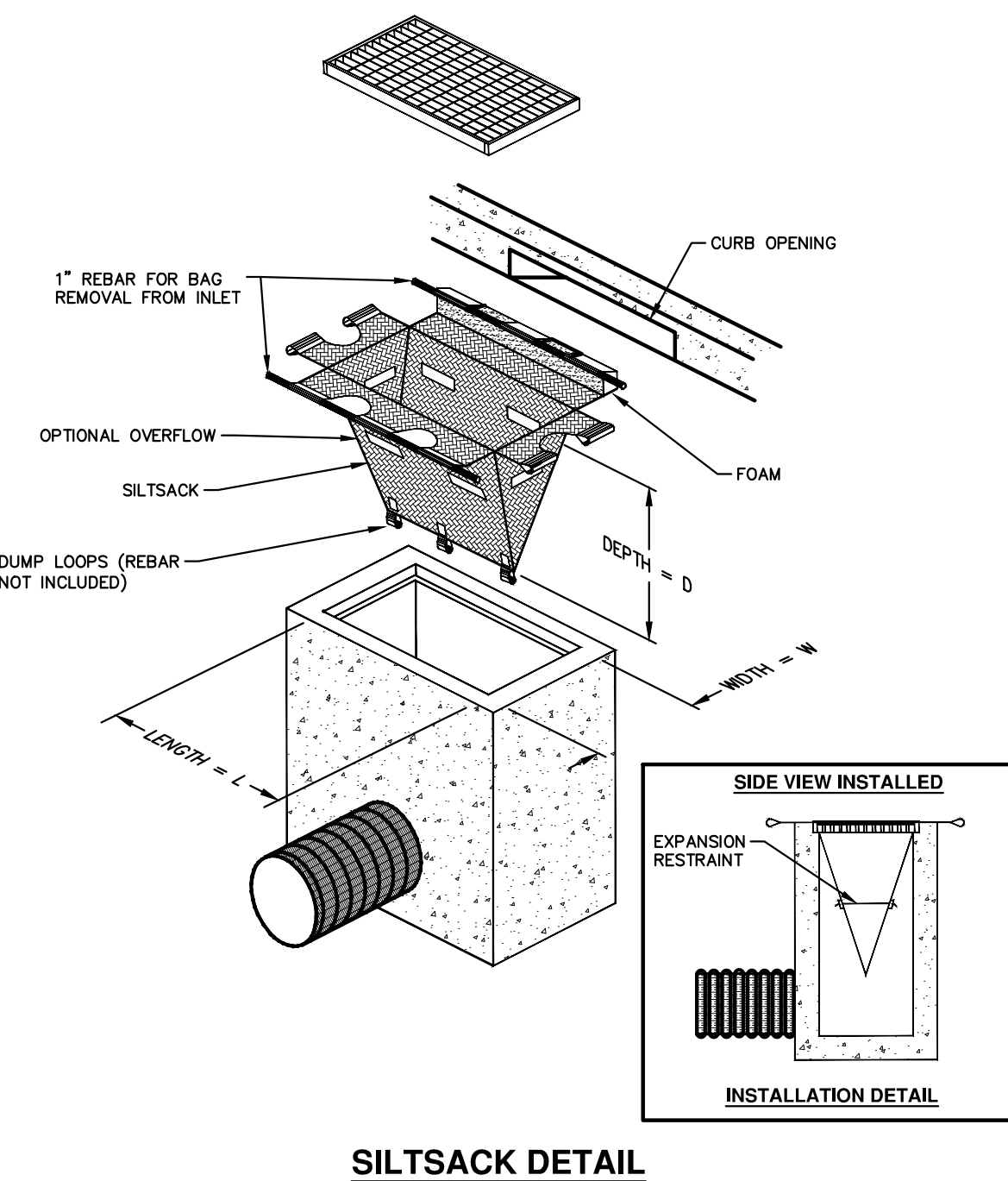
- 1.7. TEMPORARY SEED AND INSTALL EROSION CONTROL BLANKET IN ALL DISTURBED AREAS.
- 1.8. REFER TO LANDSCAPE PLANTING PLANS FOR PERMANENT SITE STABILIZATION.
- 1.9. CLEAN OUT STORM SEWER SYSTEMS.
- 1.10. REMEDY ANY NOTED DEFECTS TO THE SATISFACTION OF THE CITY OF ANN ARBOR'S SOIL EROSION AND SEDIMENTATION 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.

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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

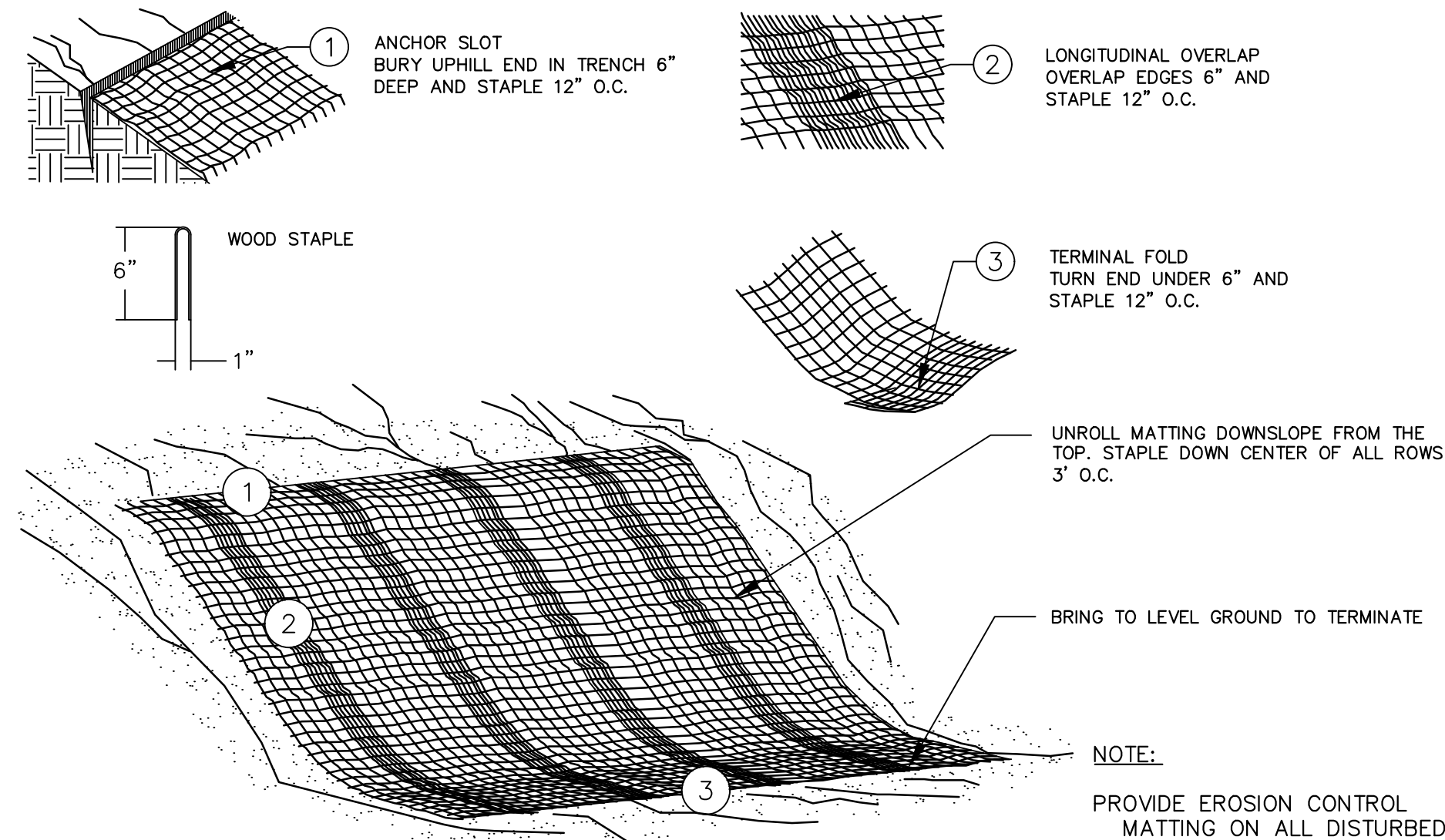
(FOR AREAS OF MODERATE TO HEAVY PRECIPITATION AND RUN-OFF)

PROPERTIES	REQUIRED VALUE	TEST METHOD
GRAB TENSILE STRENGTH	ASTM D-4632	265 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

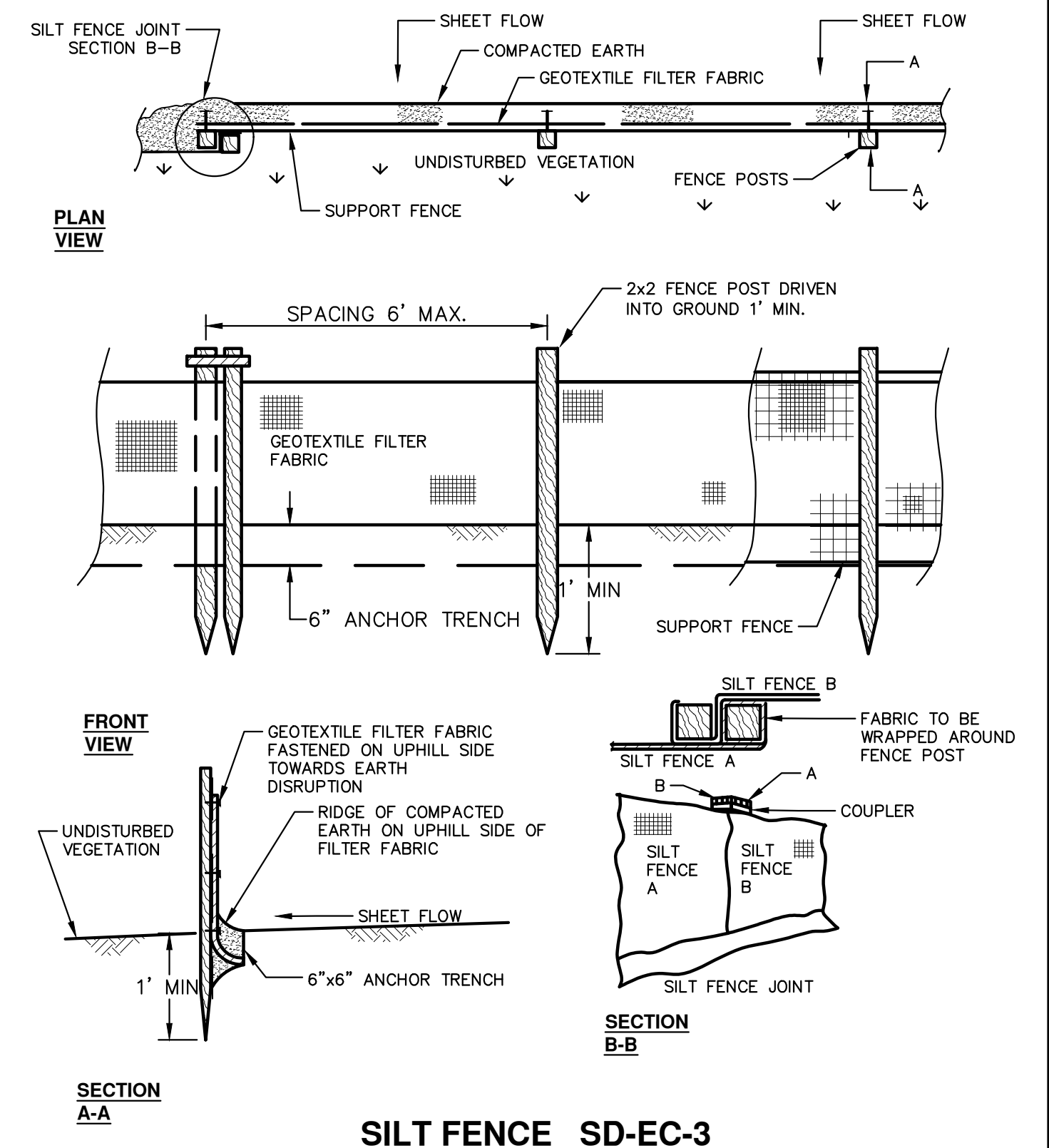
(FOR AREAS WHERE THERE IS A CONCERN FOR OIL RUN-OFF OR SPILLS)

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

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

DATE: 04/26/2023
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DESCRIPTION

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CITY OF ANN ARBOR MICHIGAN

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

STREET RESURFACING PROJECT - 2023

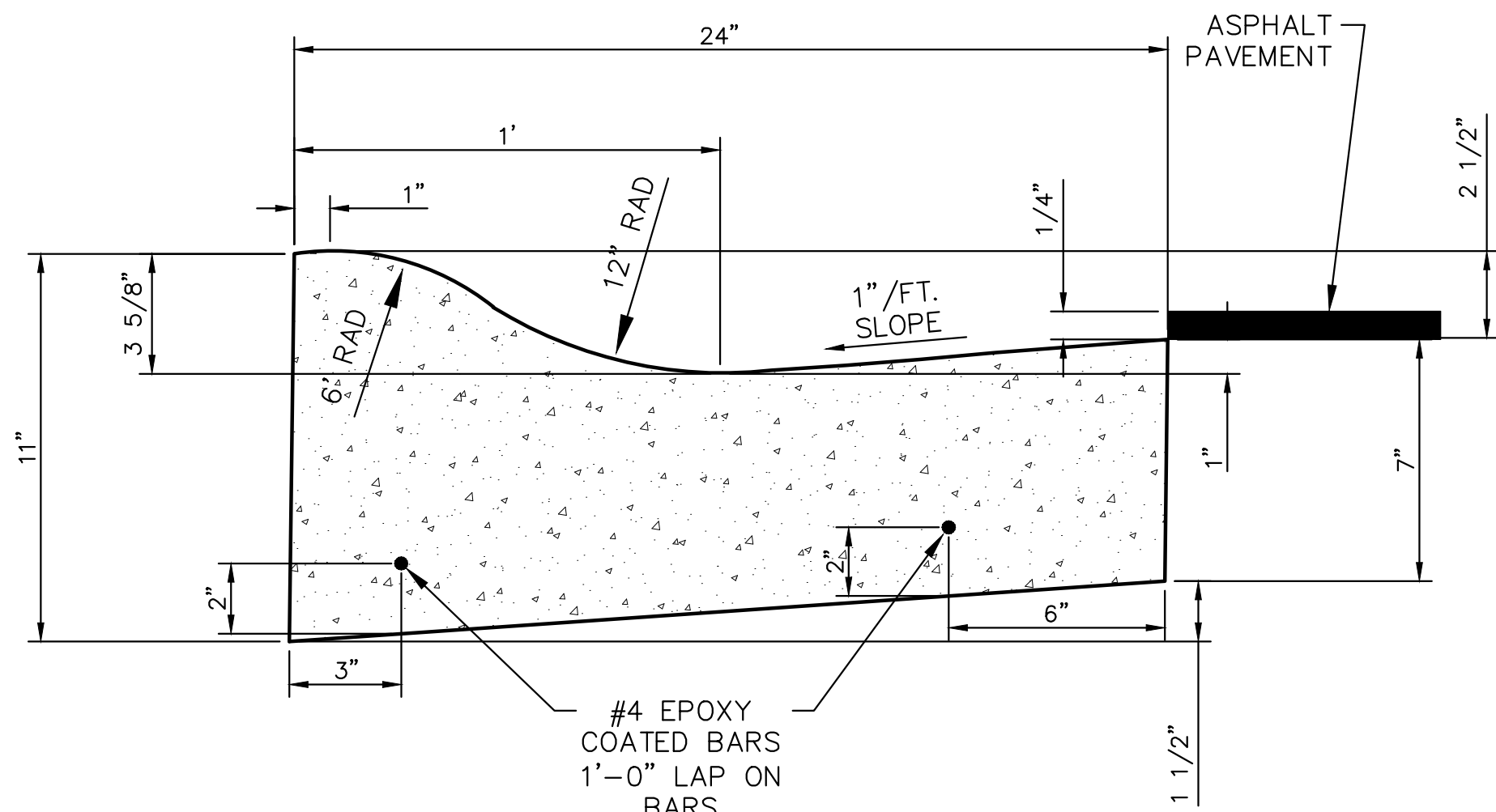
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SHEET No.

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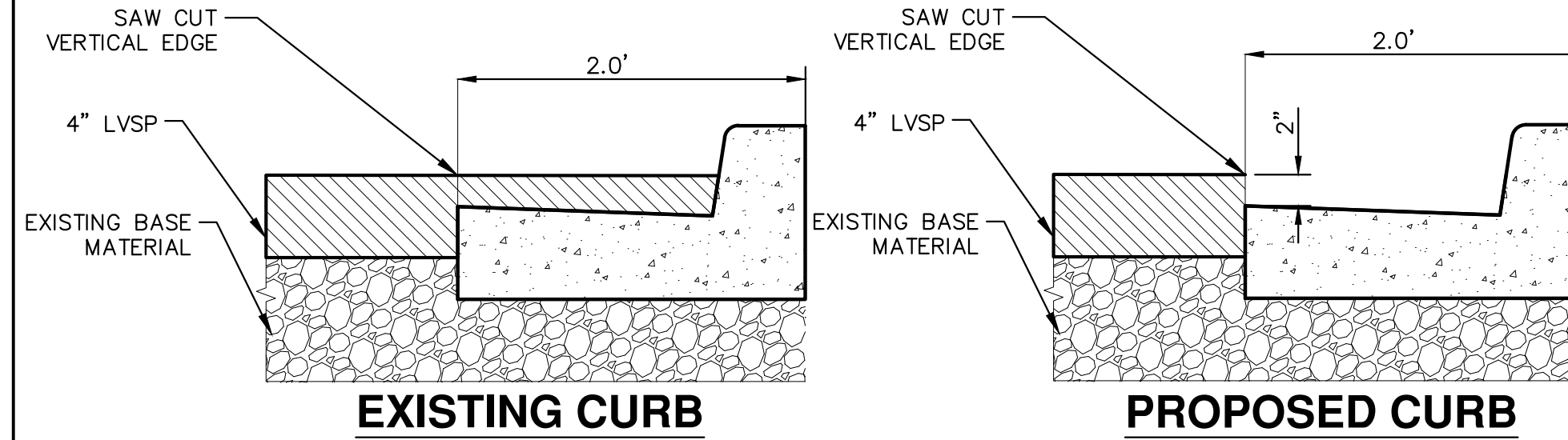
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NOTES:

- FRONT EDGE OF INLET CASTINGS SHALL BE FLUSH WITH FRONT EDGE OF GUTTER (EDGE-OF-METAL).
- THIS DETAIL SHALL BE USED FOR MOUNTABLE CURB AND GUTTER ON ASPHALT STREETS. SEE SD-R-3 FOR MOUNTABLE CURB AND GUTTER ON CONCRETE STREETS.

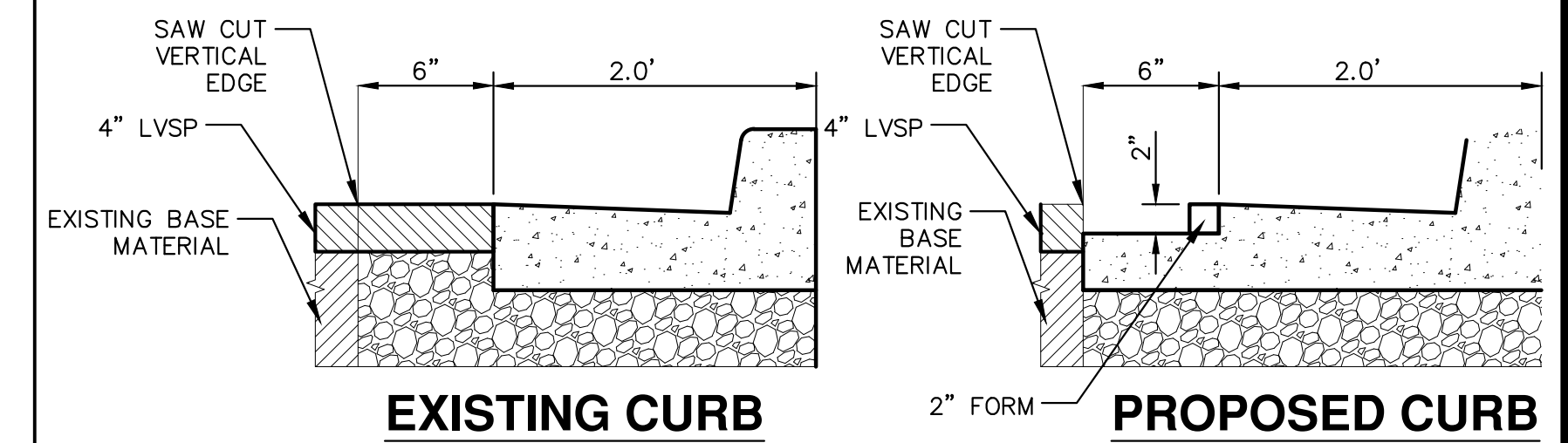
MOUNTABLE CURB & GUTTER FOR ASPHALT STREETS SD-R-2



NOTES:

- SAWCUT A VERTICAL EDGE 2' FROM BACK OF CURB.
- REMOVE CURB THIS INCLUDES THE HMA IN GUTTER-PAN.
- EXCAVATE DOWN TO OBTAIN GRADE FOR FULL WIDTH OF EXISTING SAW CUT TAKING CARE NOT TO DAMAGE THE HMA EDGE.
- PLACE BACK FORMS TO ALIGN WITH EXISTING CURB ON EACH SIDE, POUR CONCRETE USING THE HMA EDGE AS A FORM LEAVING THE CONCRETE A MINIMUM OF 2" DOWN FROM EXISTING HMA ROAD GRADE, UNLESS OTHERWISE DIRECTED BY THE PROJECT MANAGER.
- ANY NON VERTICAL EDGES WILL BE APPROVED BY INSPECTION PRIOR TO POURING CURB, THE NEED TO SAW CUT OUT TO TWO FEET TO CLEAN UP THE EDGE AND PATCH BACK IN WITH HMA MAY BE NEEDED.

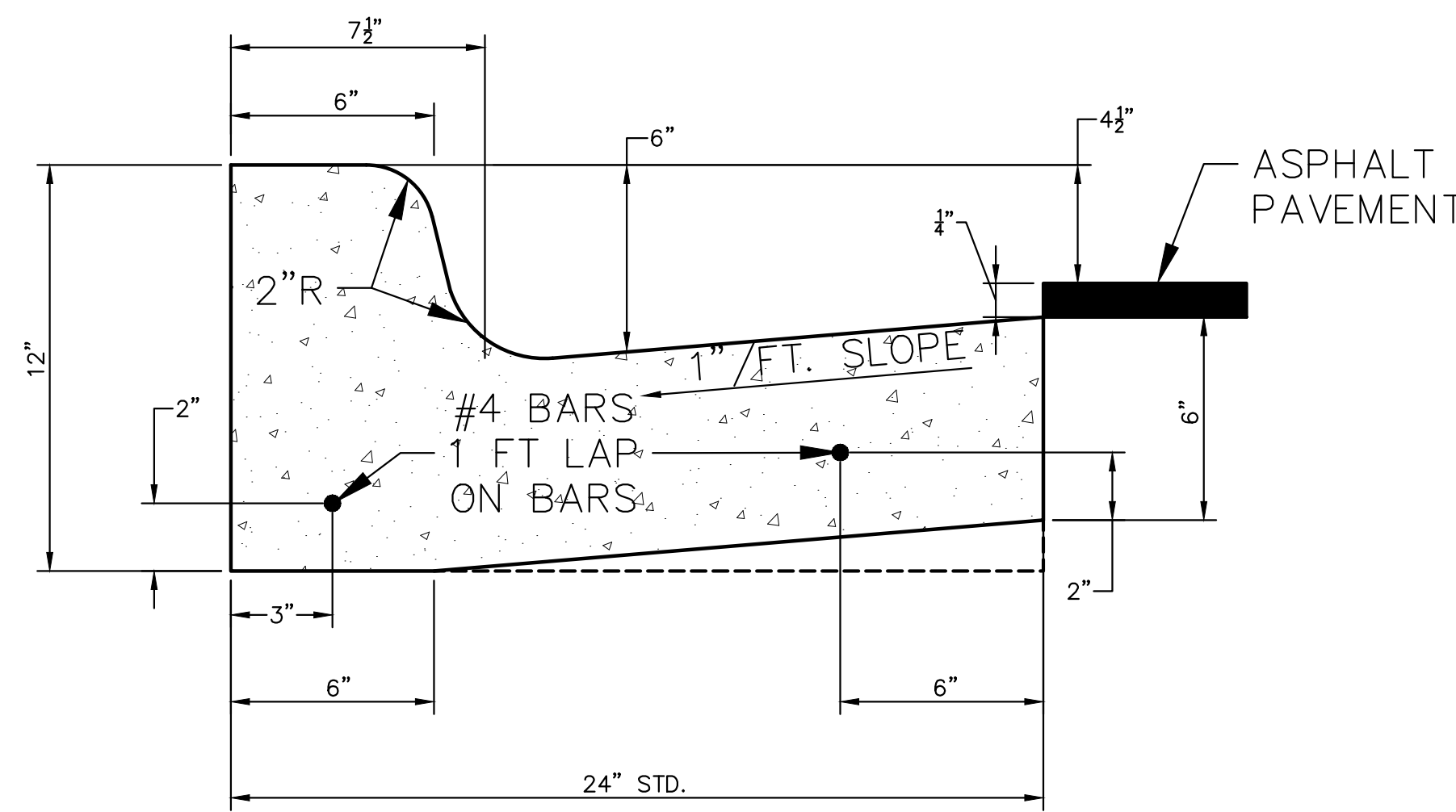
CURB REMOVAL & REPLACE OVERLAID MODIFIED



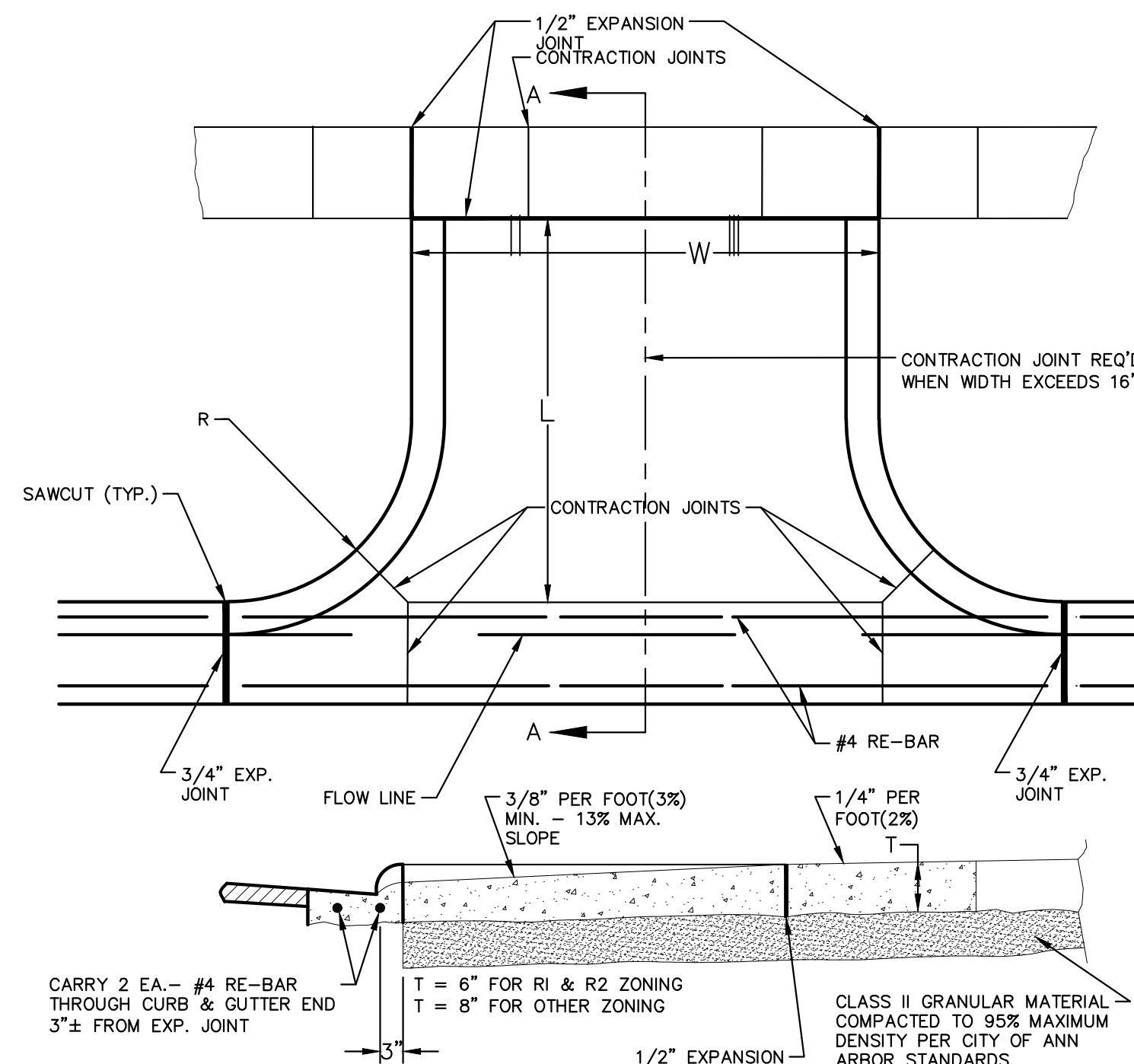
NOTES:

- SAWCUT A VERTICAL EDGE 2.5' FROM BACK OF CURB.
- REMOVE CURB AND 6" OF HMA IN FRONT OF CURB.
- EXCAVATE DOWN TO OBTAIN GRADE FOR FULL WIDTH OF TRENCH.
- PLACE BACK FORMS AT 2' FROM THE BACK FORM PLACE A 2" FORM (TOP OF FORM TO BE FLUSH WITH WHERE EDGE OF METAL IS TO BE AT THE CORRECT ELEVATION ALLOWING TO CREATE A 2" STEP). POUR CONCRETE MONOLITHICALLY OUT TO THE EXISTING HMA LEAVING IT 2" DOWN FROM THE NEW EDGE OF METAL AND THE EXISTING HMA
- ANY NON VERTICAL EDGES WILL BE APPROVED BY INSPECTION PRIOR TO POURING CURB, THE NEED TO SAW CUT TO CLEAN UP THE EDGE MAY BE NEEDED.

CURB REMOVAL & REPLACE NON-OVERLAID MODIFIED



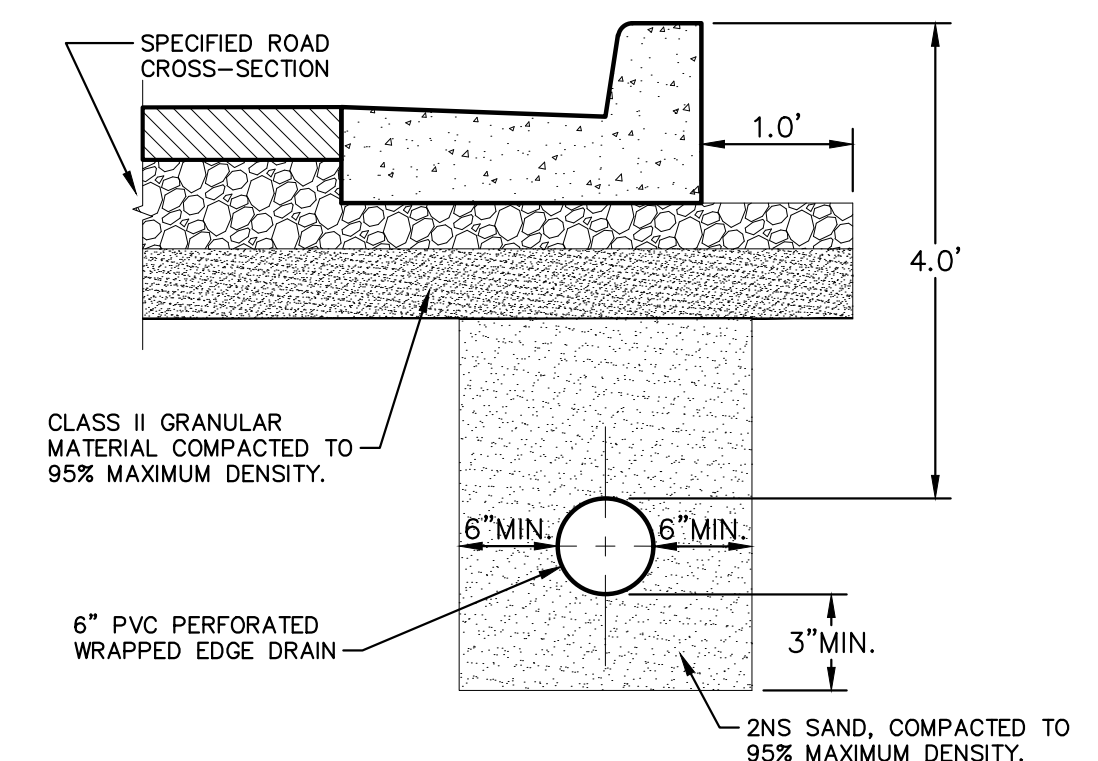
BARRIER CURB AND GUTTER SD-R-1



NOTE:

- DRIVE APPROACH TO BE CLASS 'A' CONCRETE.
- R(RADIUS) AND W(DRIVE WIDTH) AS REQUIRED FOR ZONING BY CITY CODE
- IF GUTTER IS OVERLAPPED, GUTTER OF THE APPROACH SHALL BE AT SAME ELEVATION AS EXISTING GUTTER AND ASPHALT WEDGE SHALL BE PLACED IN THE APPROACH.

TYPE 'M' DRIVE APPROACH SD-R-6



NOTES:

- FOR PAVEMENT BASE AND SUBBASE THICKNESS, SEE TYPICAL PAVEMENT CROSS-SECTION.
- DENSITY TESTING PER CITY OF ANN ARBOR SPECIFICATIONS.
- TRENCH DETAILS SHOW TYPE OF BACKFILL AND SURFACE RESTORATION, ONLY.
- ALL TRENCHING TO CONFORM TO ALL APPLICABLE M.I.O.S.H.A. STANDARDS.

TYPICAL EDGE DRAIN TRENCH SD-TD-10



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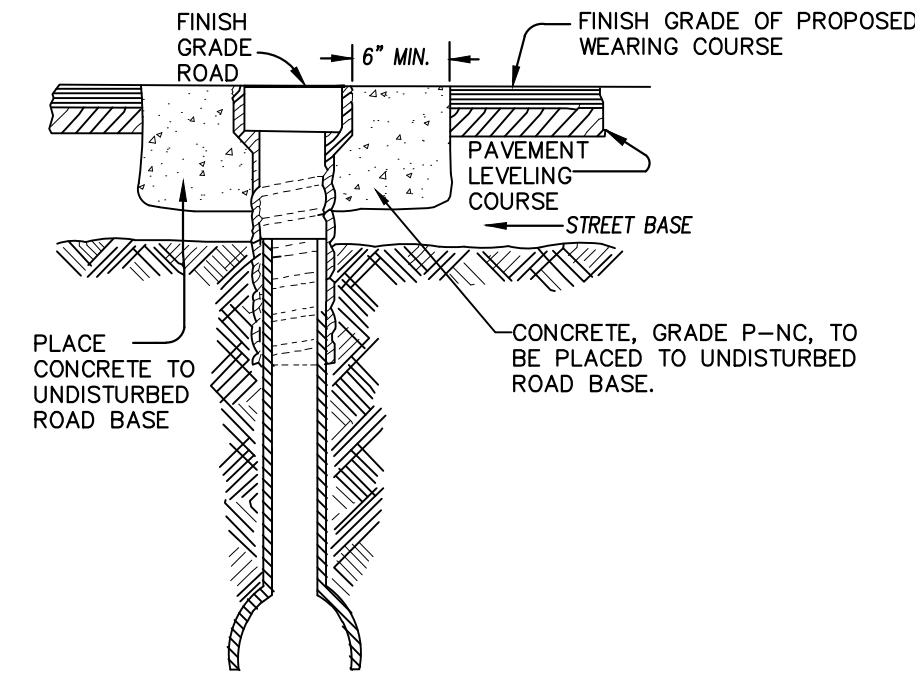
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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
STREET RESURFACING PROJECT - 2023
DETAILS

SCALE: NTS
DRAWING No. 2023-004-4
SHEET No.

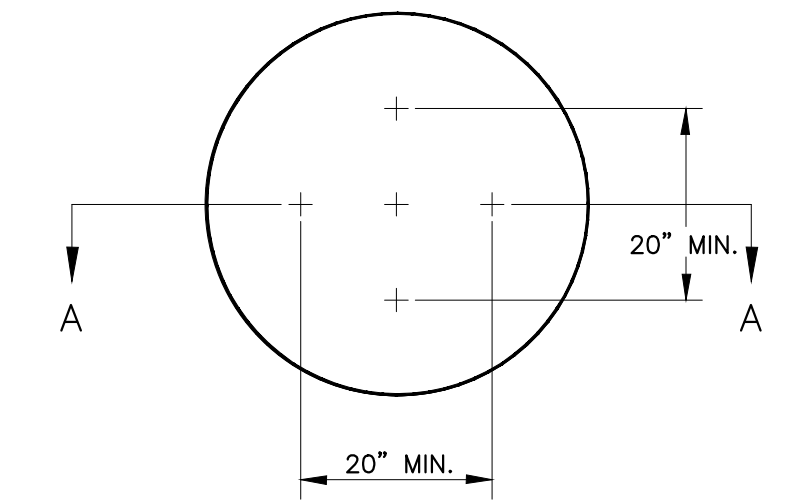
AFTER WEARING COURSE, CORE PAVEMENT TO THE MINIMUM SHOWN IN DETAIL AND RAISE BOX IN CONCRETE TO PROPOSED FINISH STREET GRADE. PLACE AND FINISH APPROVED CONCRETE PER THE CONTRACT REQUIREMENTS AROUND ADJUSTED CASTING



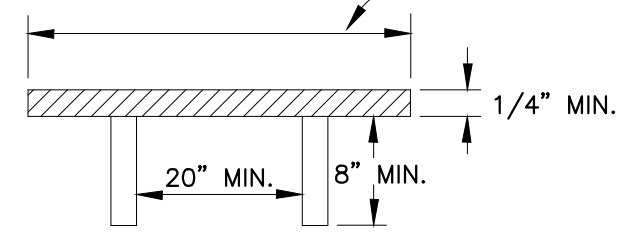
NOTE: RAISE CASTING TO PROPOSED FINISH STREET GRADE AFTER PLACEMENT OF WEARING COURSE WITH ENGINEER APPROVED CONCRETE.

CITY OF ANN ARBOR STANDARD SD-GU-7 APPLIES TO: SEE PLANS FOR LOCATIONS

WATER VALVE BOX ADJUSTMENT



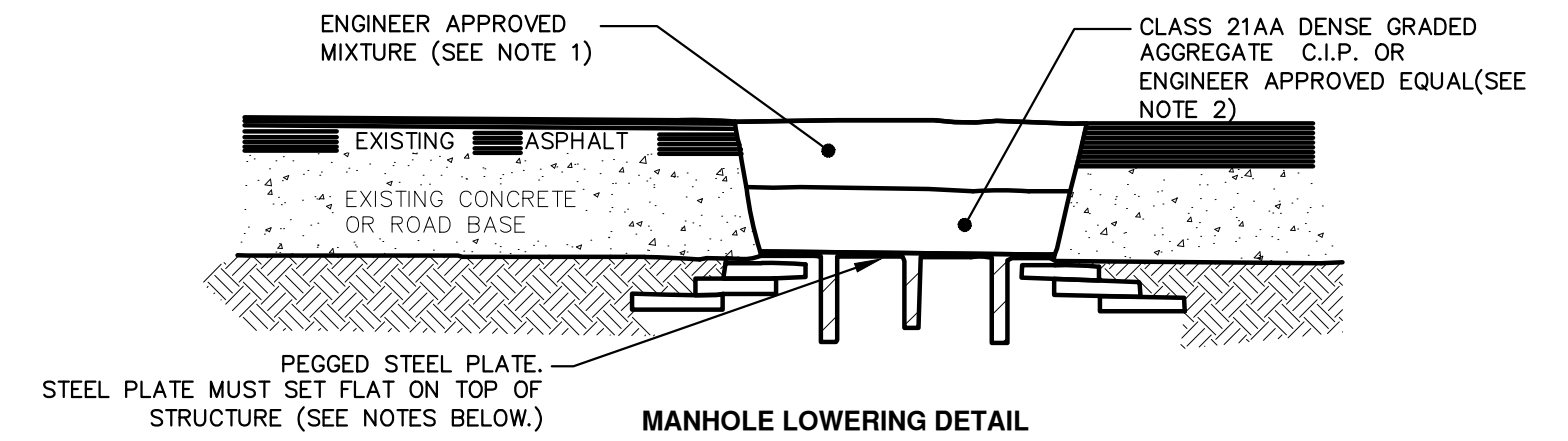
NOTE: PLATE MAY BE CIRCULAR, SQUARE OR RECTANGULAR SECTION A - A 6\"/>



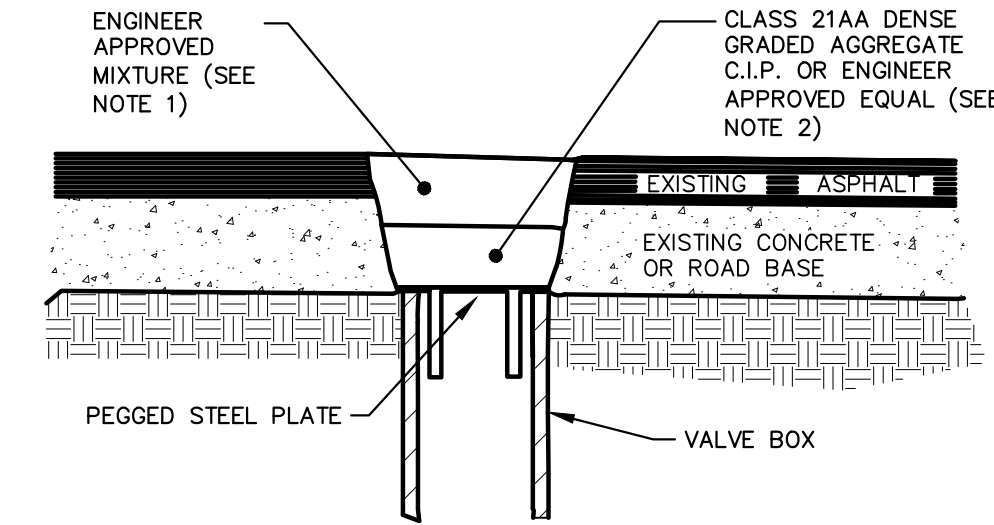
1/4\"/>

STEEL PLATES WILL BE FIELD INSPECTED AND MAY BE REJECTED IF ITS HORIZONTAL AND STRUCTURAL INTEGRITY SHOW SIGNS OF DAMAGE.

STRUCTURE PLATE



MANHOLE LOWERING DETAIL

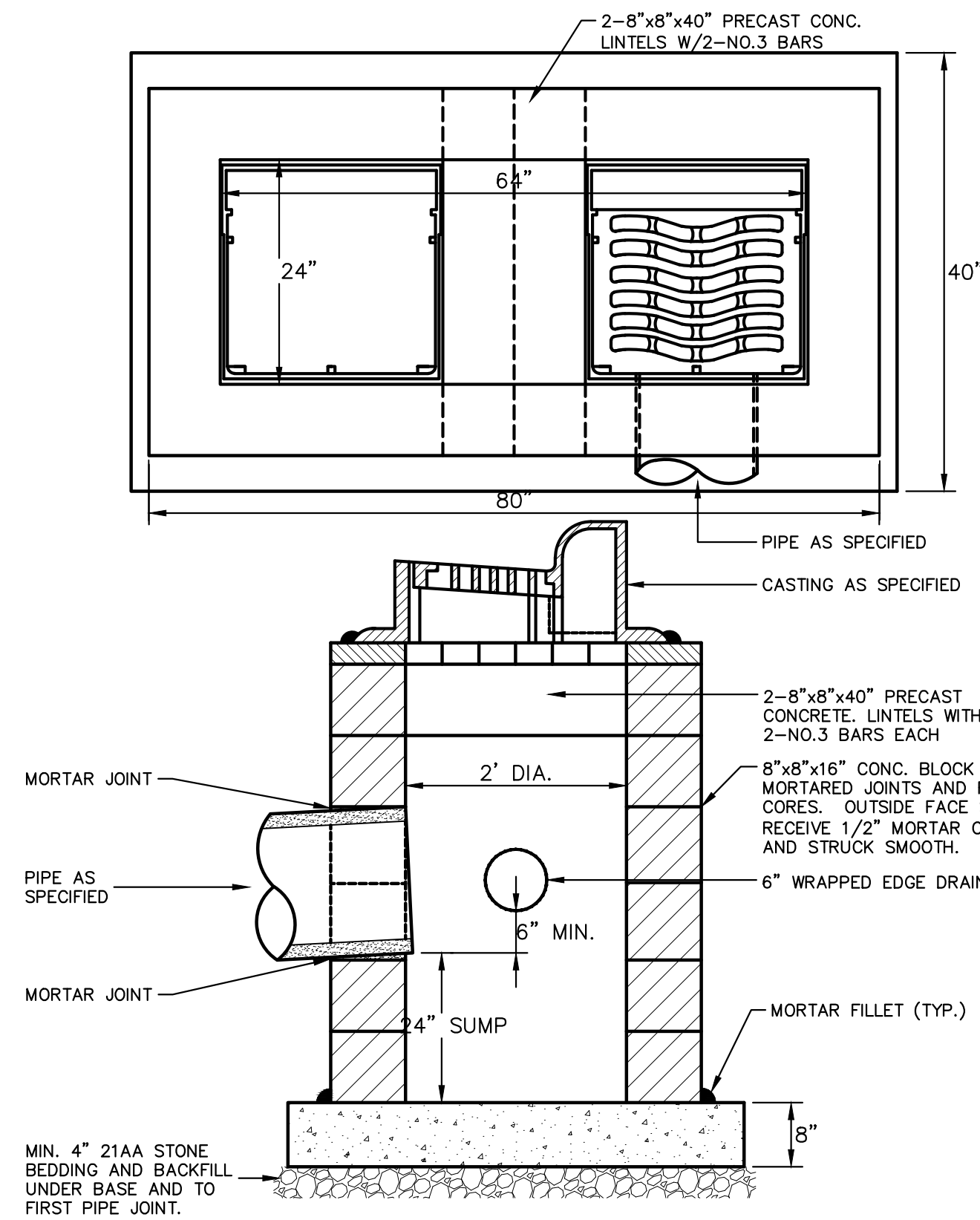


VALVE BOX LOWERING DETAIL (SEE NOTE 3)

NOTES:

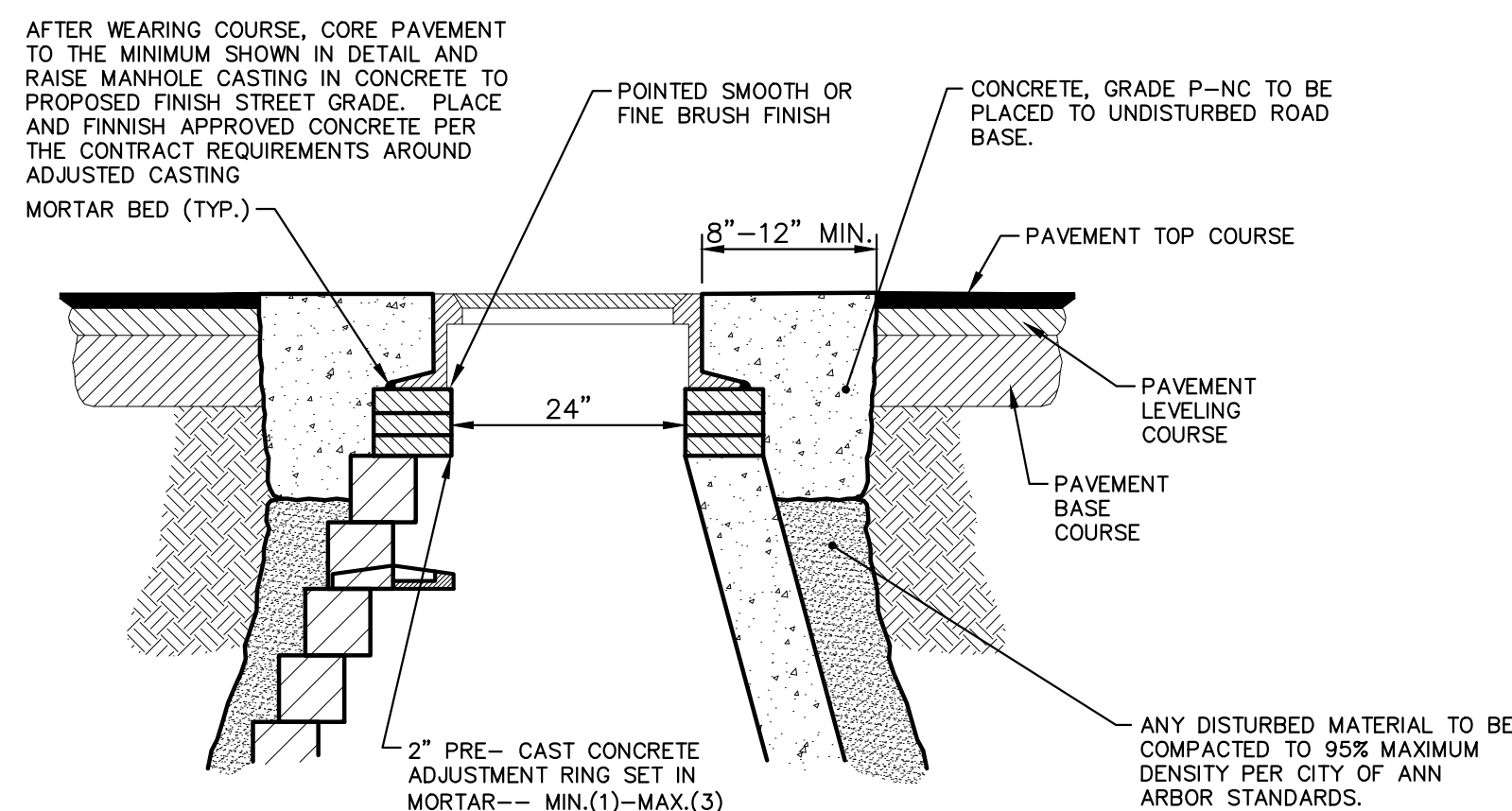
- IF TRAFFIC IS TO BE MAINTAINED ON THE ROADWAY BEFORE OR AFTER THE COLD MILLING OPERATION, THE STRUCTURE SHALL BE LOWERED TO THE EXTENT THAT A MINIMUM OF THREE(3) INCHES OF ENGINEER APPROVED ASPHALT OR OTHER MATERIAL REMAINS TO SUPPORT TRAFFIC.
- IF THE ROADWAY BEING MILLED IS CLOSED TO TRAFFIC, THE STRUCTURE SHALL BE LOWERED SUCH THAT THE STEEL PLATE IS A MINIMUM OF EIGHT (8) INCHES BELOW THE PROPOSED ROAD GRADE TO ALLOW THE MILL TO SAFELY PASS OVER WITHOUT COMING IN TO CONTACT WITH THE PLATE AND THE RESULTING VOID SHALL BE FILLED WITH COMPACTED CLASS 21AA DENSE GRADED AGGREGATE OR ENGINEER APPROVED EQUAL.
- WHERE A MONUMENT IS TO BE LOWERED, THE CONTRACTOR SHALL GIVE THE ENGINEER A MINIMUM OF 48 HOURS WRITTEN NOTICE SO THAT THE MONUMENT CAN BE PROPERLY WITNESSED OR PROTECTED. FAILURE TO DO SO SHALL RESULT IN THE ENGINEER REPLACING SAID MONUMENT AT THE CONTRACTORS EXPENSE.
- PLACE NON-WOVEN GEOTEXTILE BLANKET OVER EXPOSED STRUCTURE OPENING PRIOR TO PLACEMENT OF PEGGED STEEL PLATE. BLANKET SHALL EXTEND NO MORE THAN 3 INCHES BEYOND THE EDGE OF THE PLATE WITH ANY EXCESS BEING TUCKED BENEATH THE PLATE.
- STEEL PLATES WILL BE FIELD INSPECTED AND MAY BE REJECTED IF ITS HORIZONTAL AND STRUCTURAL INTEGRITY SHOW SIGNS OF DAMAGE.

MANHOLE & VALVE/MONUMENT BOX LOWERING



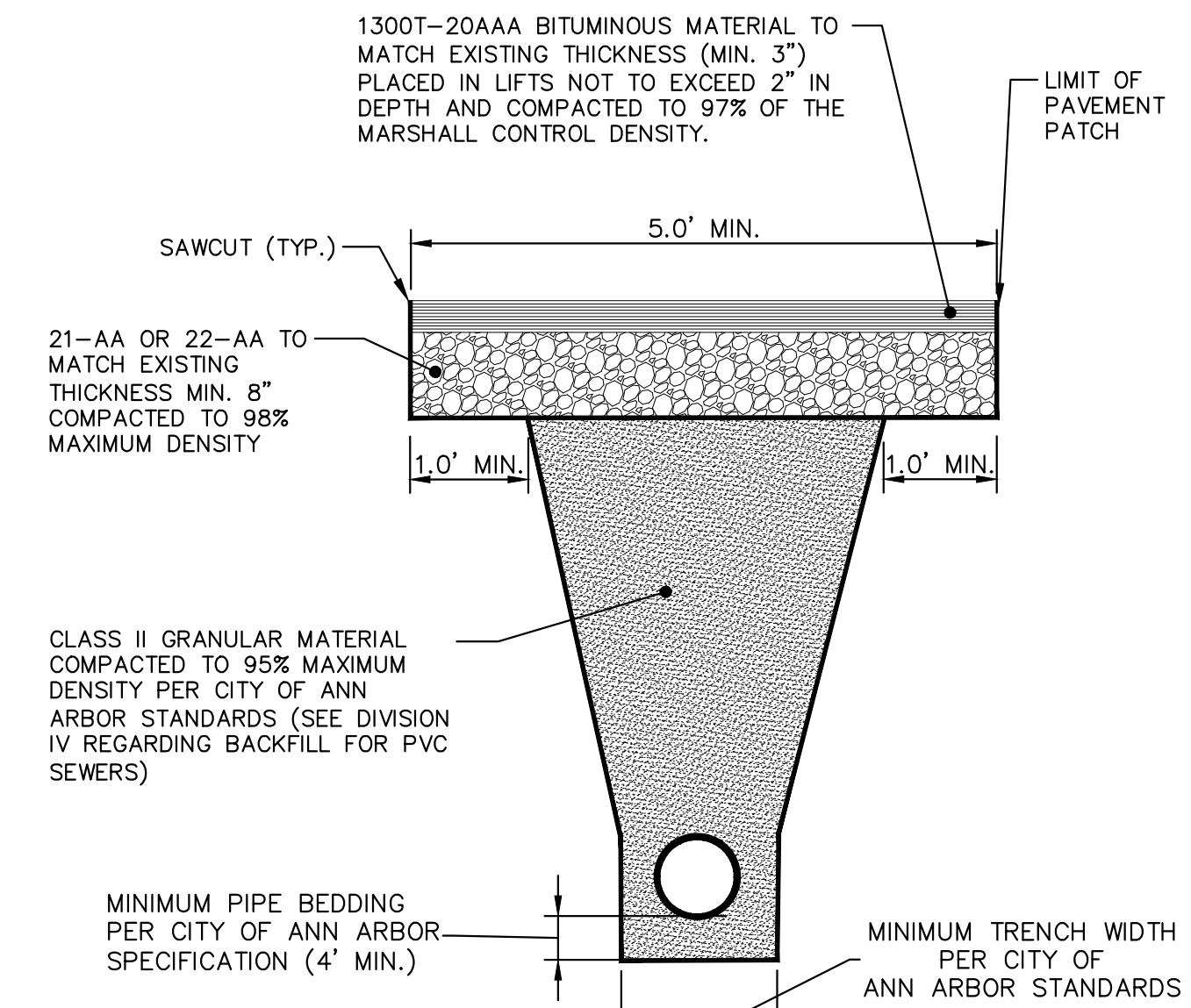
- NOTES:
- FRONT EDGE OF INLET CASTINGS SHALL BE FLUSH WITH THE FRONT EDGE OF GUTTER (EDGE-OF-METAL)
 - 2' SUMP REQUIRED ON ALL DRAINAGE STRUCTURES

DOUBLE INLET STRUCTURE SD-S-11



NOTE: IF MANHOLE WILL BE PLACED IN GRAVEL ROAD, CASTING TO BE SET TO 8\"/>

MANHOLE CASTING ADJUSTMENT SD-GU-6



NOTES:

- DENSITY TESTING PER CITY ANN ARBOR SPECIFICATION
- TRENCH DETAILS SHOW TYPE OF BACKFILL AND SURFACE RESTORATION ONLY.
- ALL TRENCHING TO CONFORM TO ALL APPLICABLE M.I.O.S.H.A. STANDARDS

UTILITY TRENCH-TYPE I SD-TD-1 (UNDER BITUMINOUS SURFACE)

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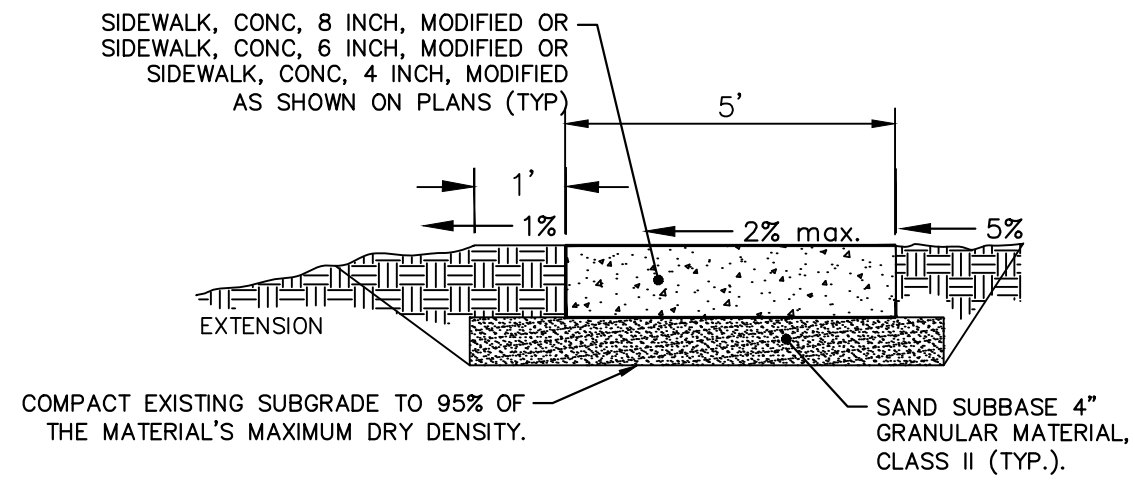
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DESCRIPTION							

CITY OF ANN ARBOR PUBLIC SERVICES 301 EAST HURON STREET P.O. BOX 8647 ANN ARBOR MI 48107-8647 www.aagov.org

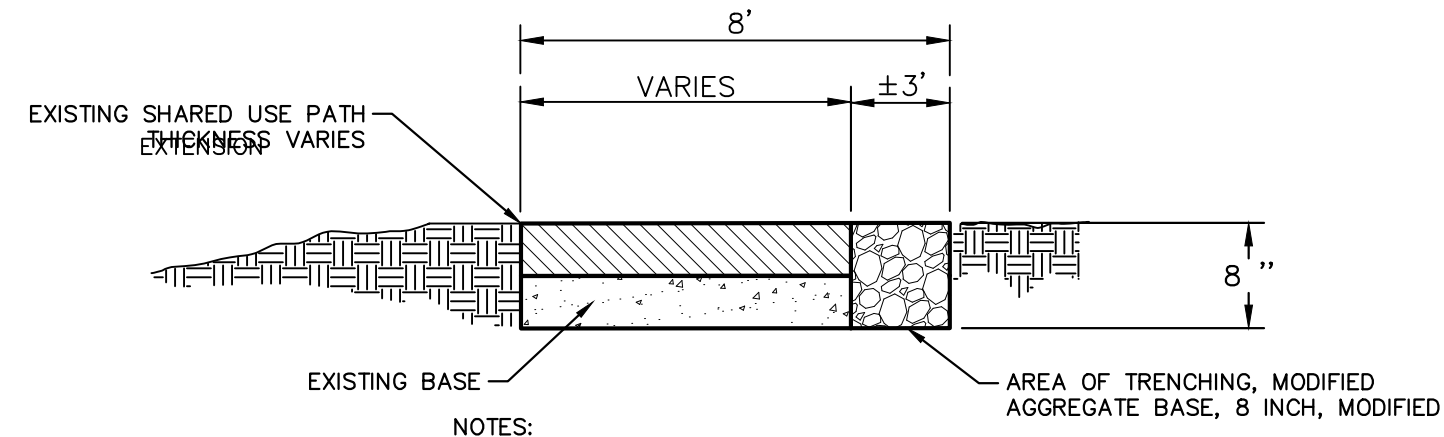


CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
STREET RESURFACING PROJECT - 2023
DETAILS 2 OF 3

SCALE: NTS
DRAWING NO. 2023-004-5
SHEET NO.



TYPICAL 5 FT SIDEWALK SECTION



NOTES:

1. PATH TRENCHING WIDTH MAY VARY. PERFORM TRENCHING CONSTRUCTION TO PROVIDE FOR A UNIFORMED 8 FOOT WIDE SHARED USE PATH SURFACE.
2. PERFORM TRENCHING EXCAVATION TO A DEPTH OF 8 INCHES FROM THE TOP OF EXISTING HMA PATH.
3. PLACE 8 INCHES OF 21AA AGGREGATE COMPACTED TO 98 % MAXIMUM DENSITY.
4. PERFORM DENSITY TESTING PER CITY OF ANN ARBOR SPECIFICATIONS.

SHARED USE PATH TRENCHING



REV.	DESCRIPTION	DATE	DRAWN	CHECKED
00	RFP SET	04/26/2023	AG/CE	JA

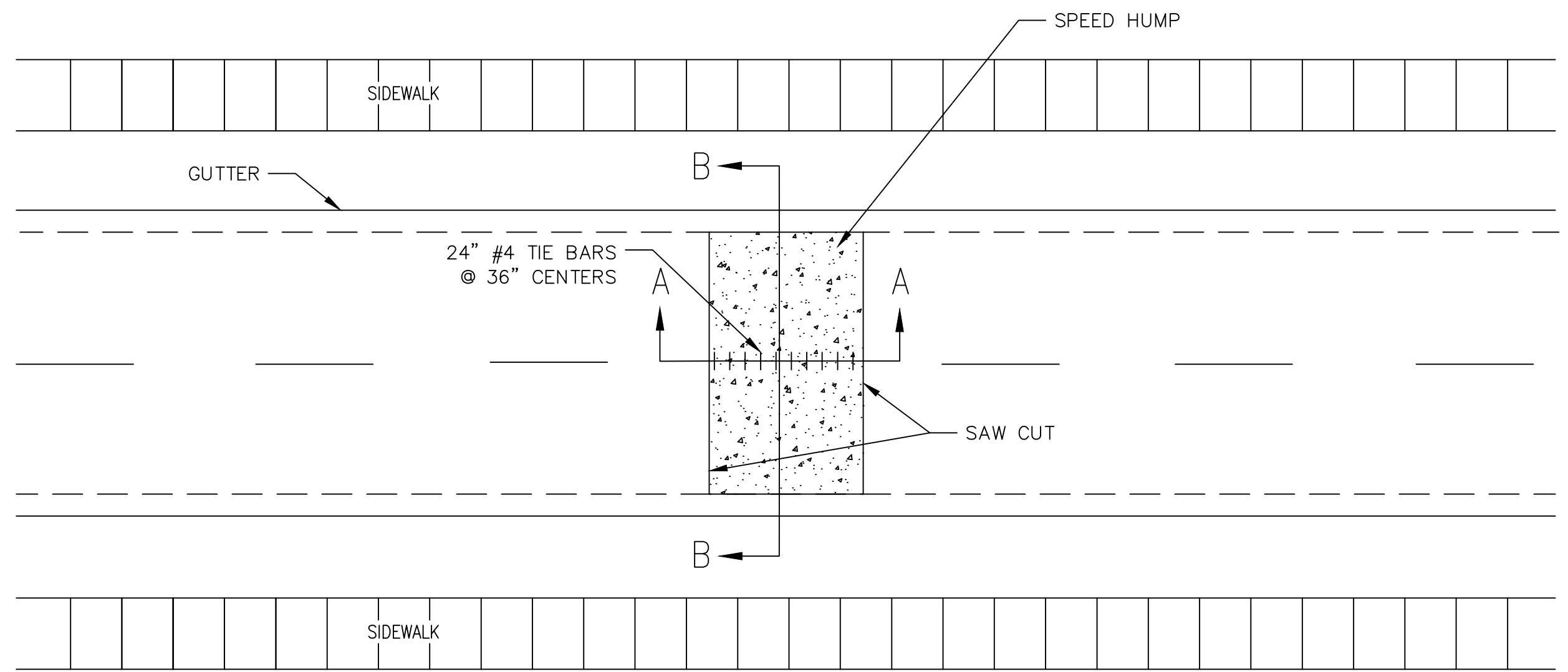
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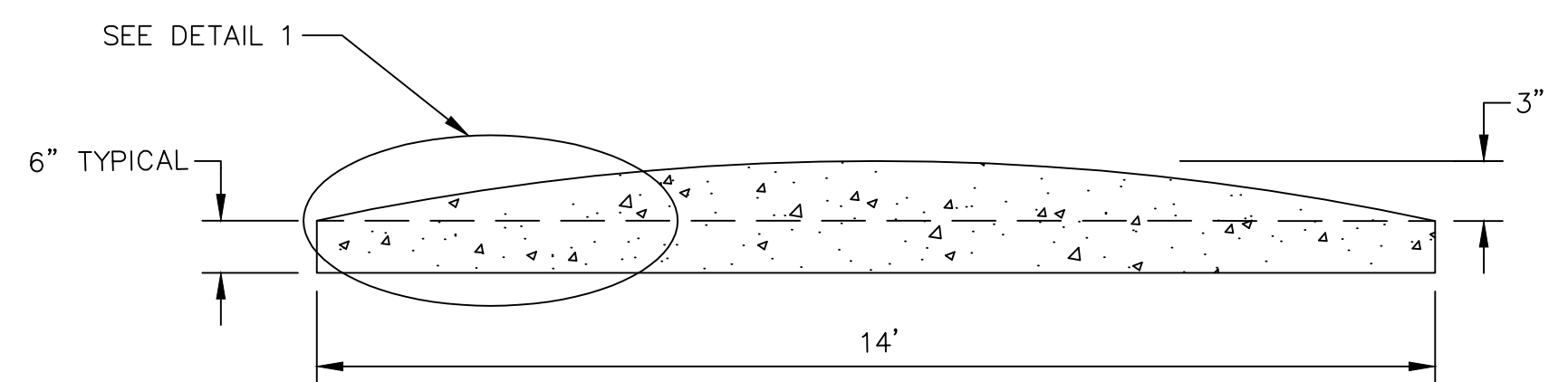
CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
STREET RESURFACING PROJECT - 2023
 DETAILS 3 OF 3

SCALE : NTS
 DRAWING No. 2023-004-6

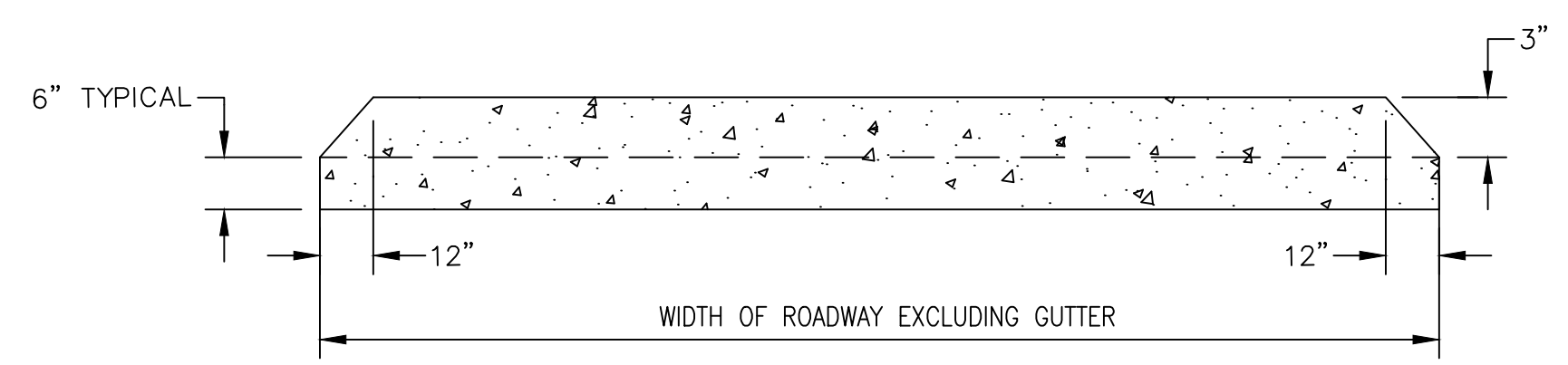
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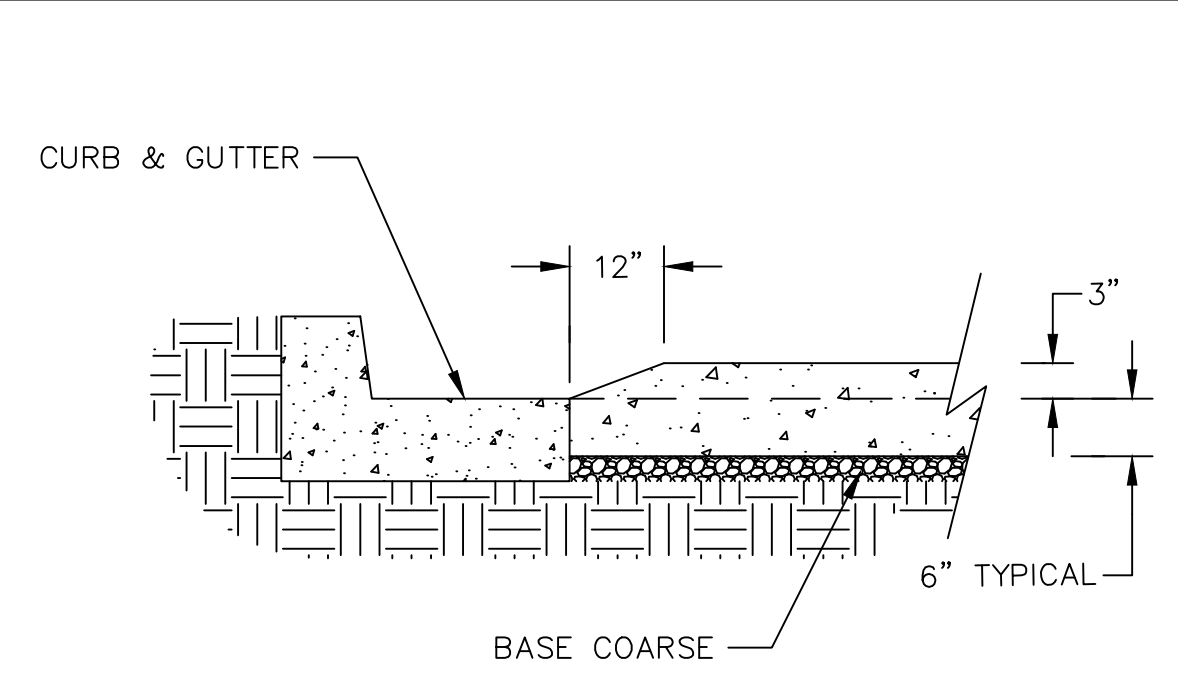
PLAN VIEW



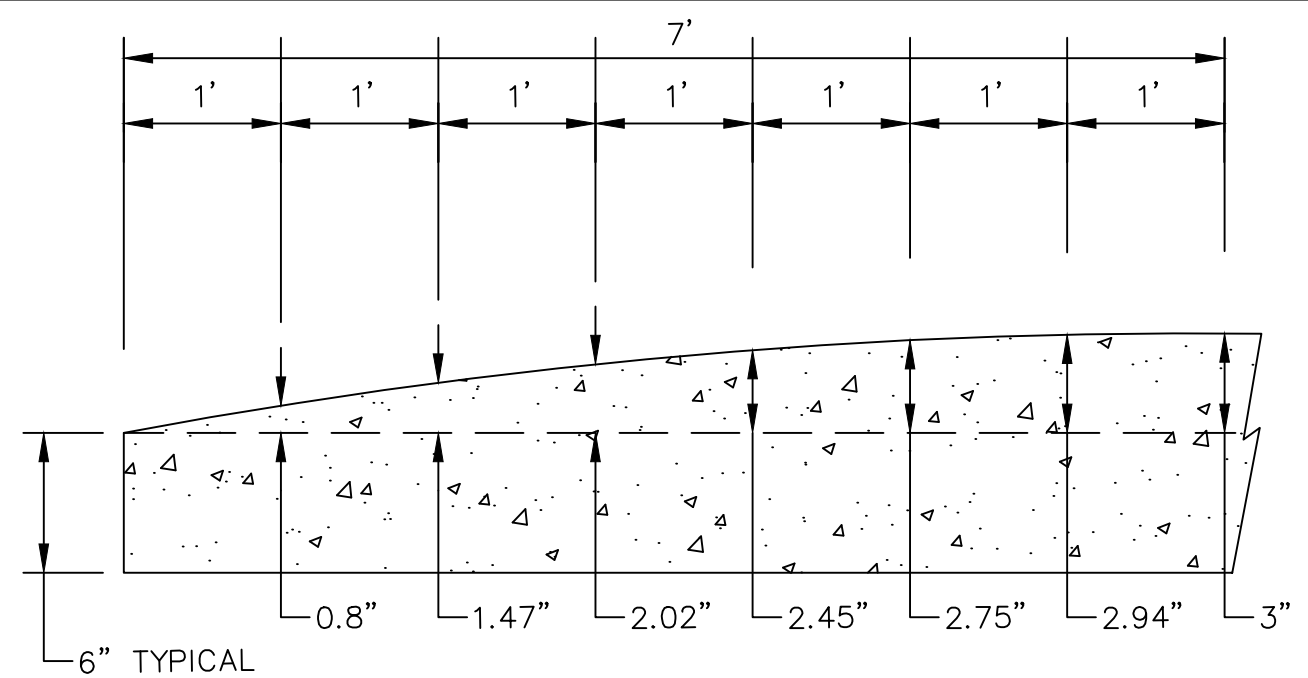
SECTION AA



SECTION BB



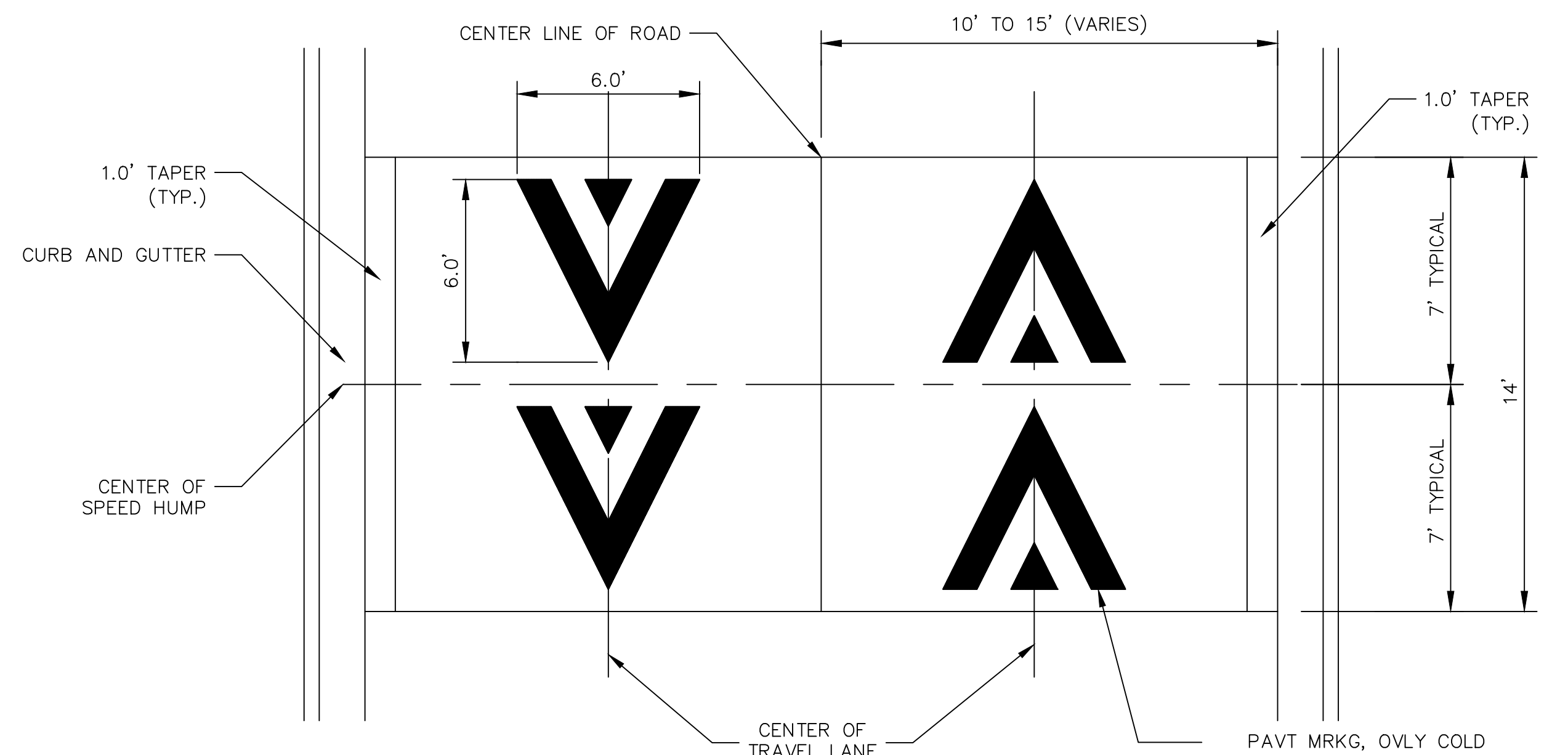
CURB DETAIL



DETAIL 1

CONCRETE SPEED HUMP DETAIL

SCALE: NOT TO SCALE



PAVEMENT MARKING DETAIL

SCALE: NOT TO SCALE

PAVT MRKG, OVLY COLD PLASTIC, SPEED HUMP CHEVRON, WHITE/ PAVT MRKG, POLYUREA, SPEED HUMP CHEVRON, WHITE

GENERAL NOTES

1. RAISED INTERSECTIONS SHALL FOLLOW THE SAME TAPER REQUIREMENT AS THE SPEED HUMPS DETAILED HEREIN.
2. PAYMENT FOR PAVEMENT MARKINGS FOR SPEED HUMPS AND RAISED INTERSECTIONS SHALL BE INCLUDED IN THE RESPECTIVE BID ITEMS AND SHALL NOT BE PAID FOR SEPARATELY.



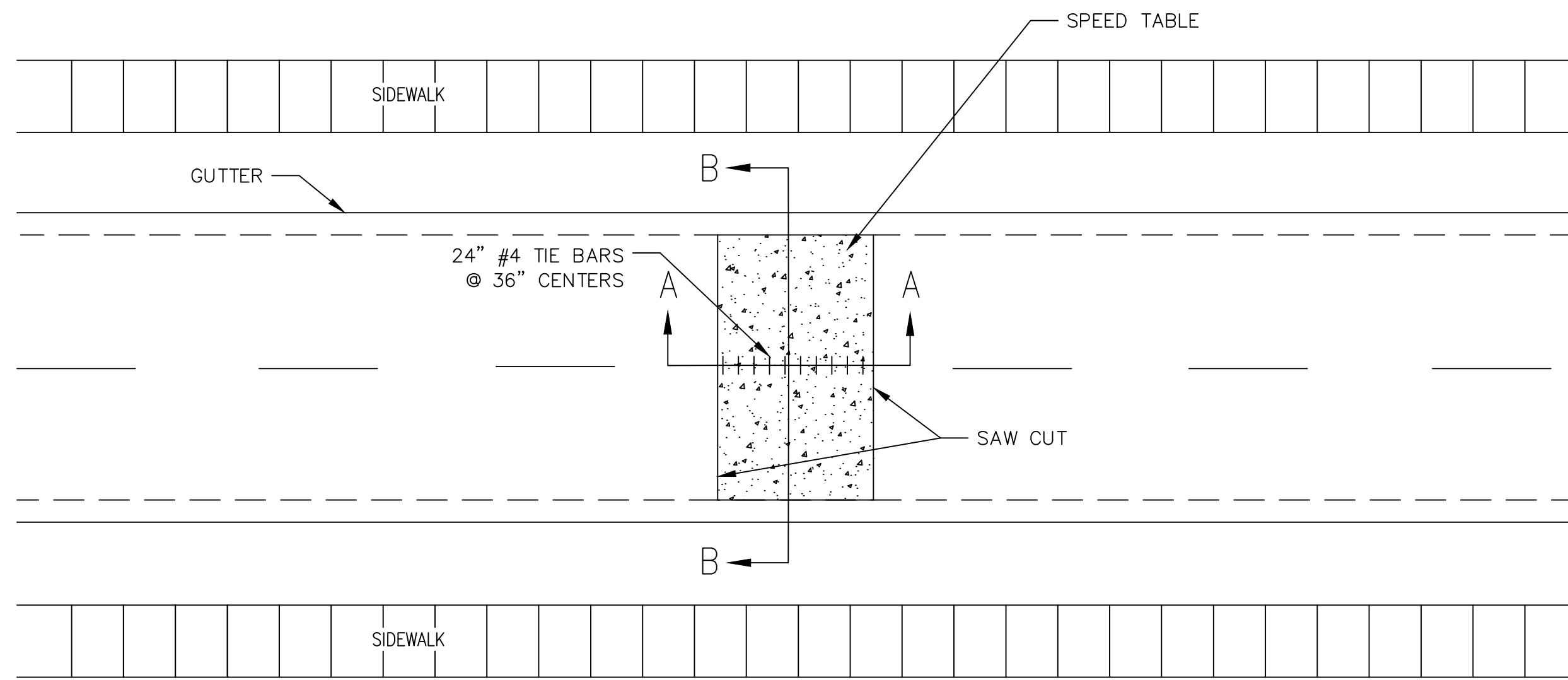
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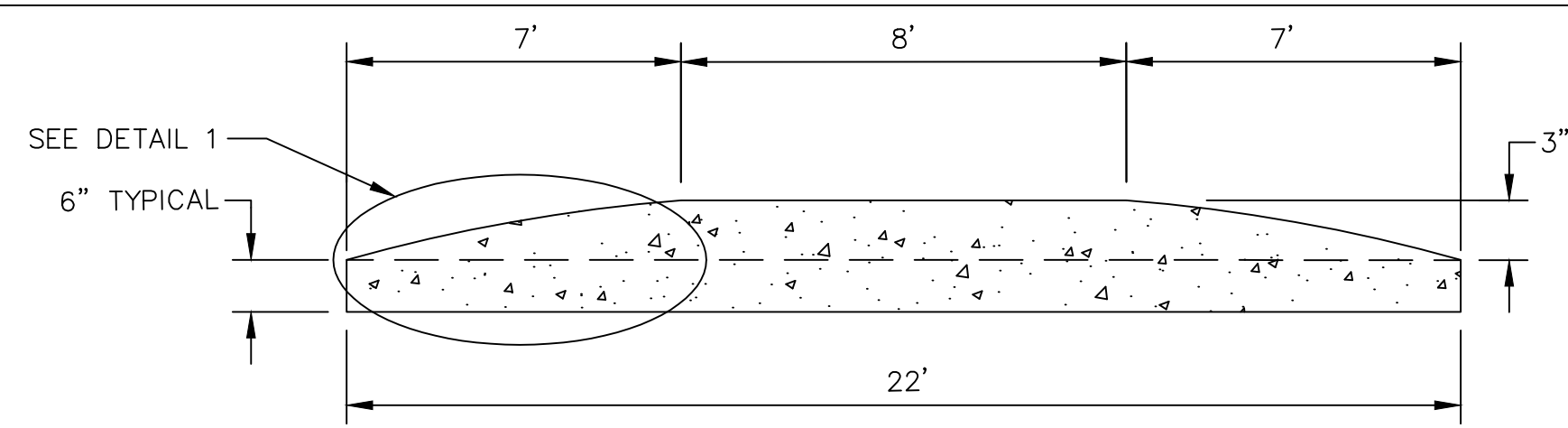
CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
 STREET RESURFACING PROJECT - 2023
 CONCRETE SPEED HUMP DETAIL

SCALE PLAN: NTS
 DRAWING No.: 2023-004-7

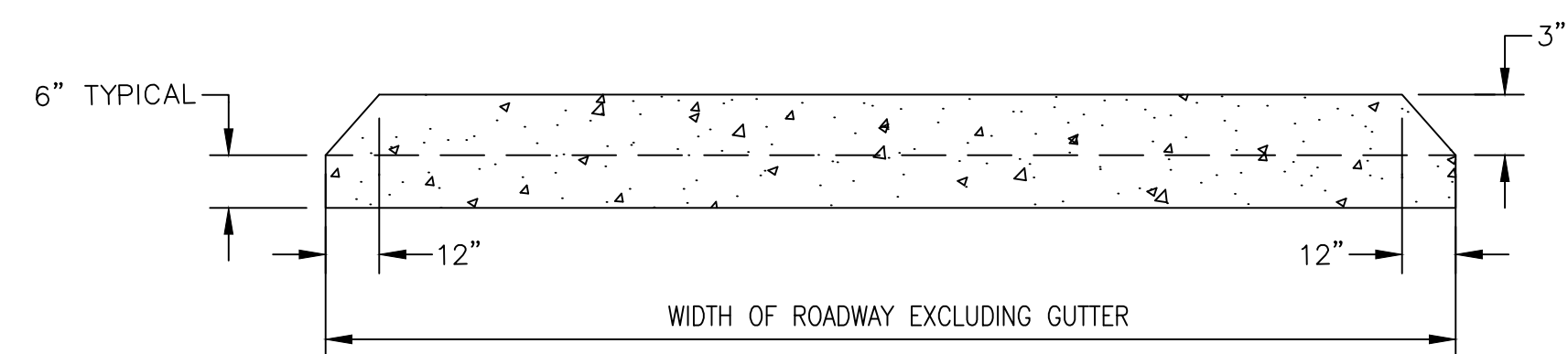
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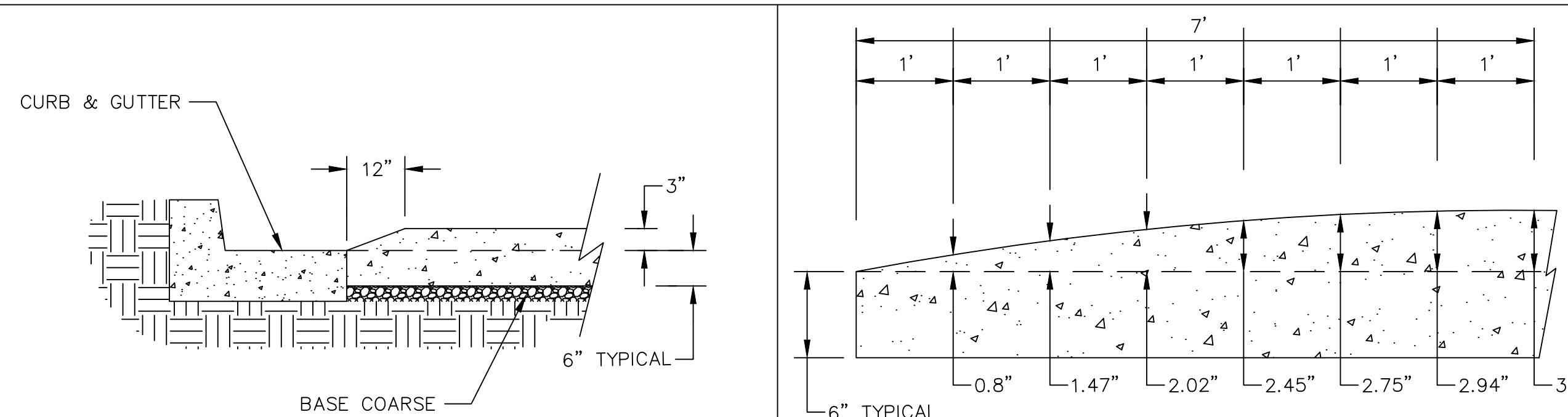
PLAN VIEW



SECTION AA



SECTION BB

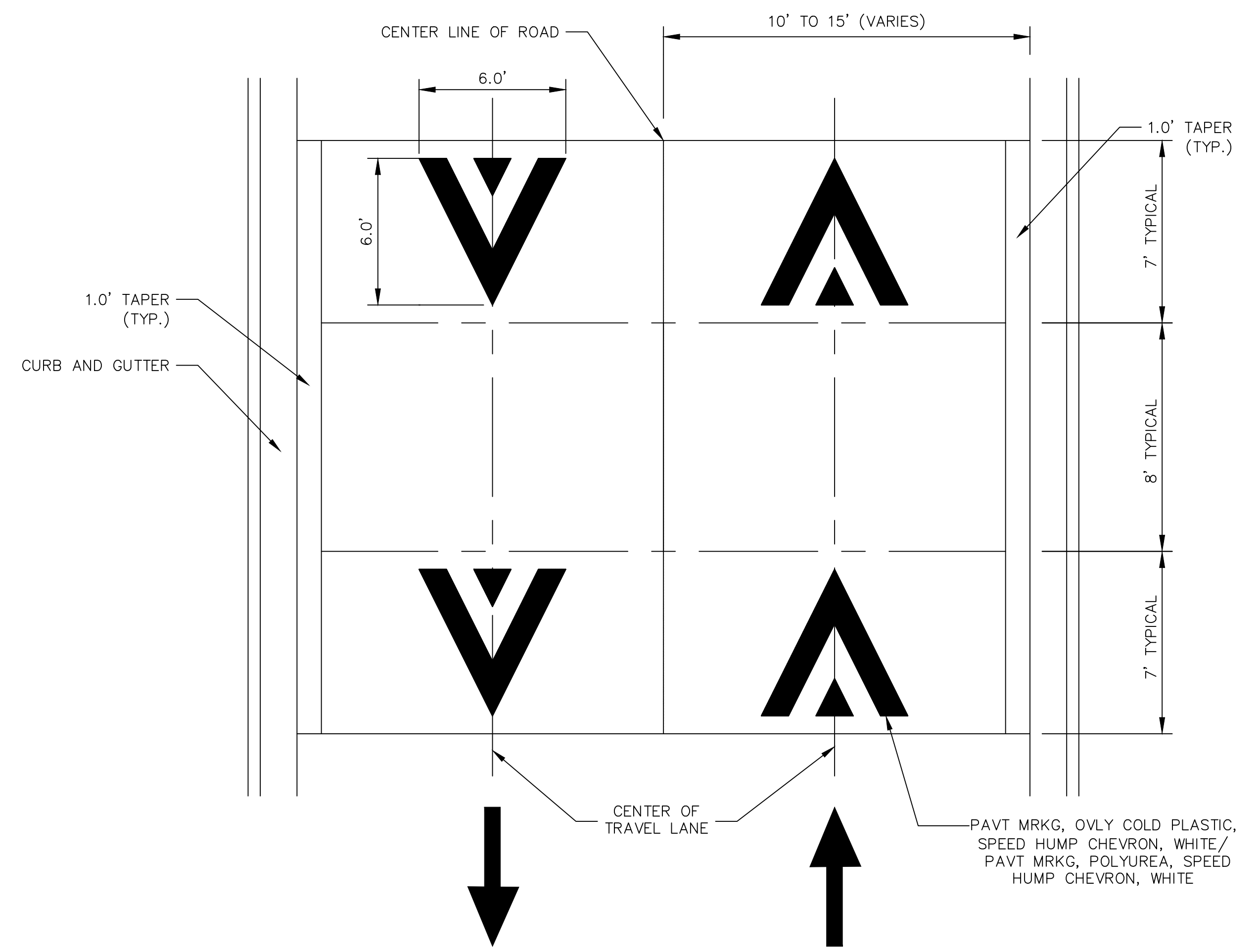


CURB DETAIL

DETAIL 1

CONCRETE SPEED TABLE DETAIL

SCALE: NOT TO SCALE



PAVEMENT MARKING DETAIL

SCALE: NOT TO SCALE

GENERAL NOTES

1. RAISED INTERSECTIONS SHALL FOLLOW THE SAME TAPER REQUIREMENT AS THE SPEED HUMPS DETAILED HEREIN.
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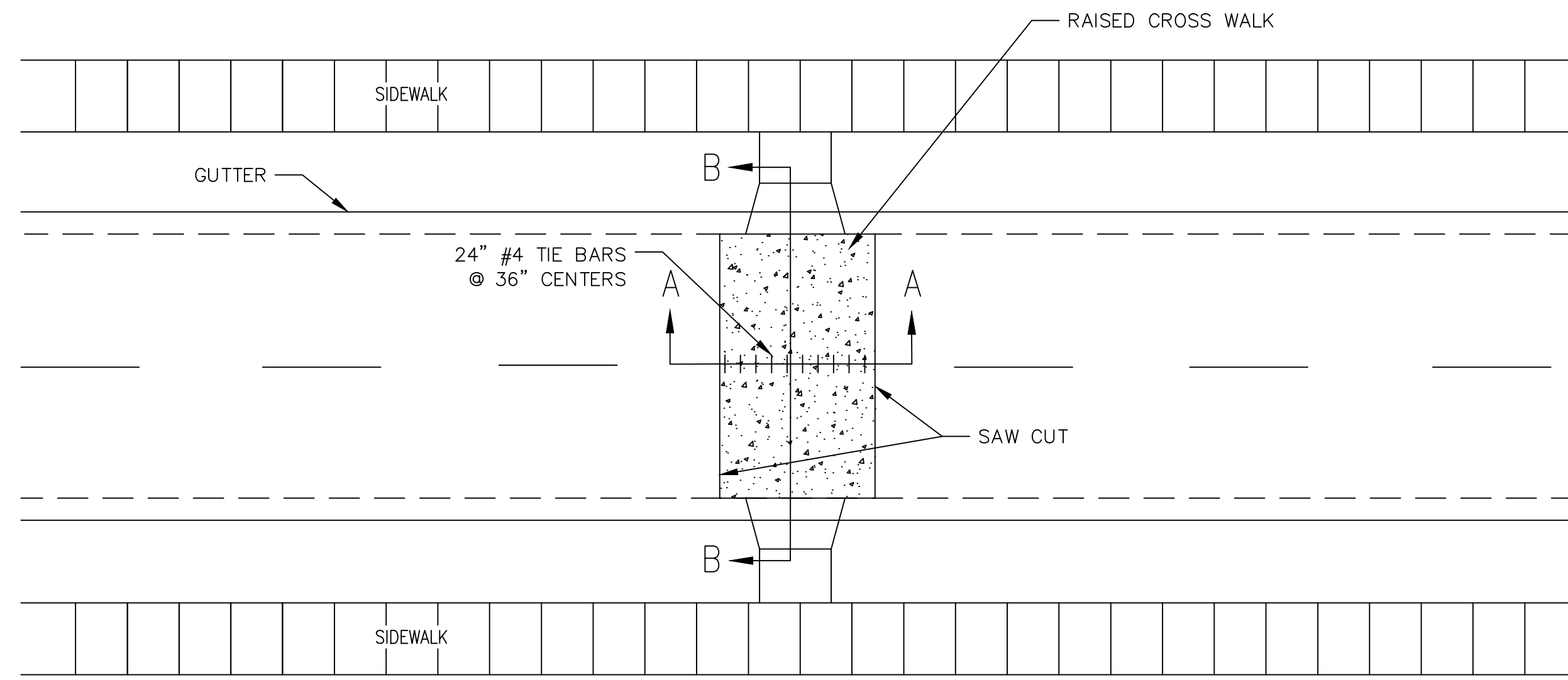
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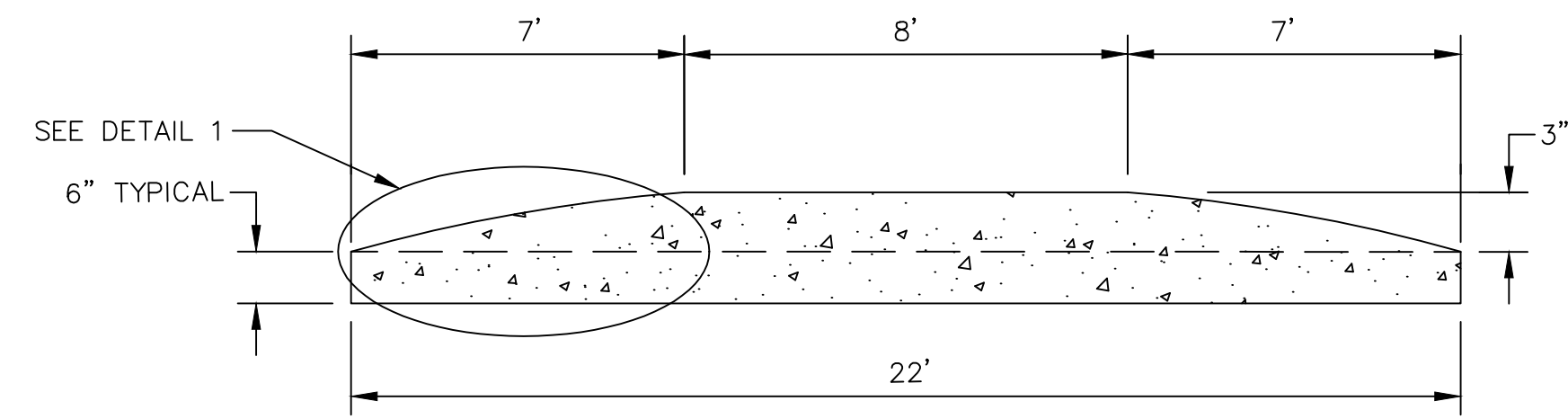
CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
STREET RESURFACING PROJECT - 2023
CONCRETE SPEED TABLE DETAIL

SCALE PLAN: NTS
DRAWING No.: 2023-004-8
SHEET No.:

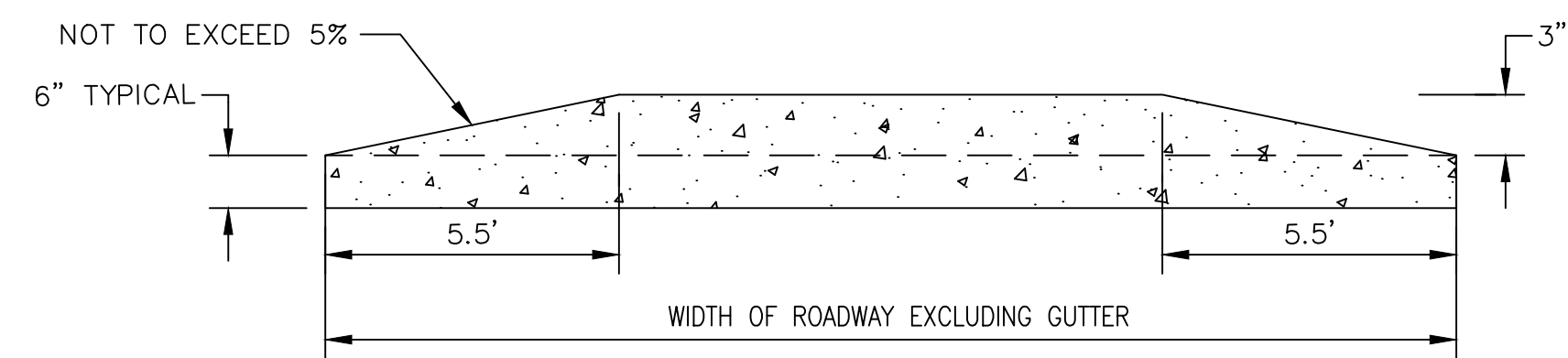
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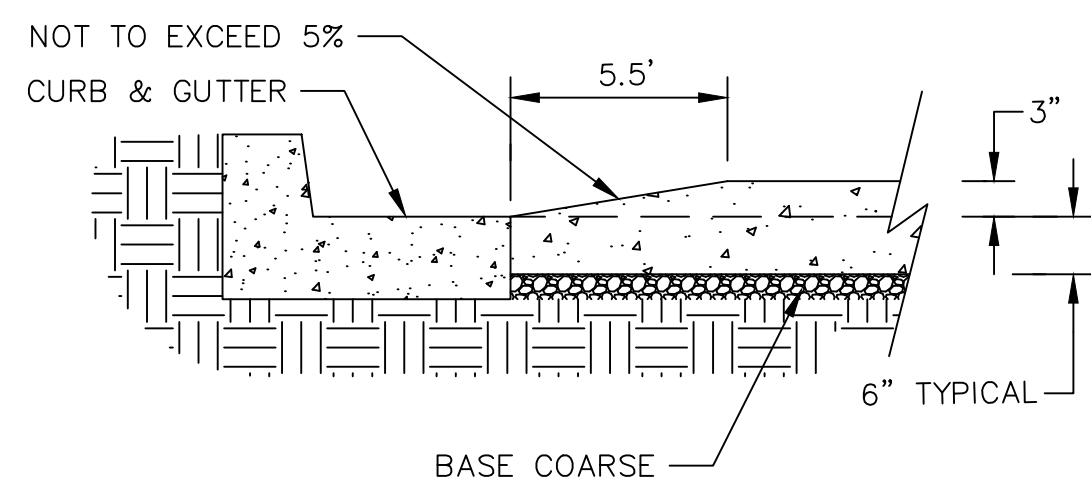
PLAN VIEW



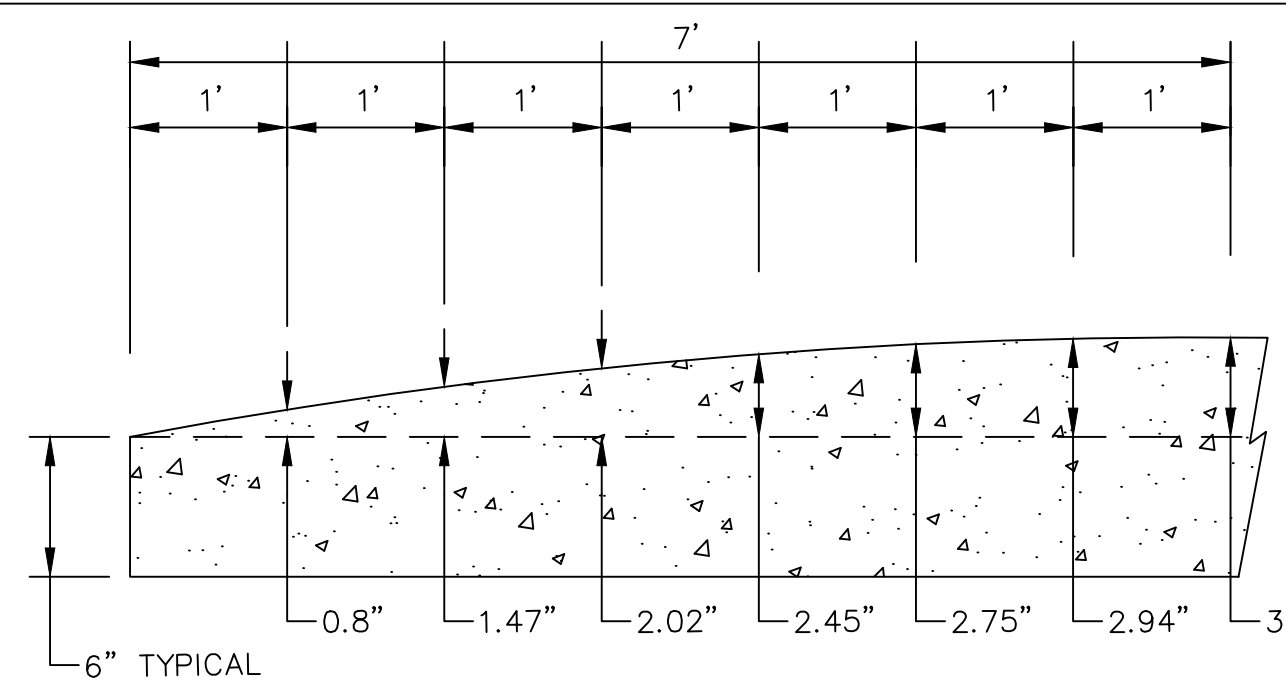
SECTION AA



SECTION BB



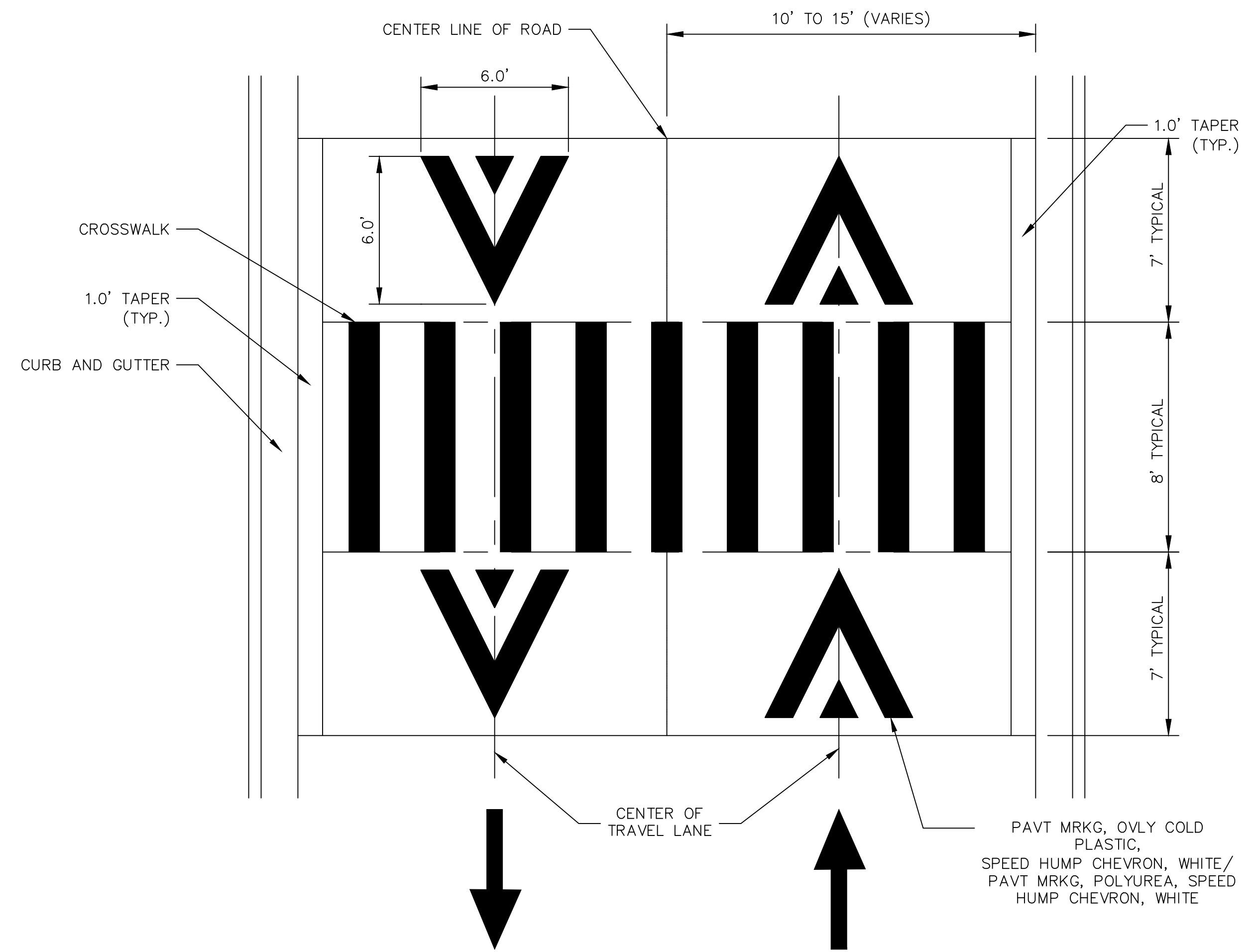
CURB DETAIL



DETAIL 1

CONCRETE RAISE CROSS WALK DETAIL

SCALE: NOT TO SCALE



PAVEMENT MARKING DETAIL

SCALE: NOT TO SCALE

GENERAL NOTES

1. RAISED INTERSECTIONS SHALL FOLLOW THE SAME TAPER REQUIREMENT AS THE SPEED HUMPS DETAILED HEREIN.
2. PAYMENT FOR PAVEMENT MARKINGS FOR SPEED HUMPS AND RAISED INTERSECTIONS SHALL BE INCLUDED IN THE RESPECTIVE BID ITEMS AND SHALL NOT BE PAID FOR SEPARATELY.



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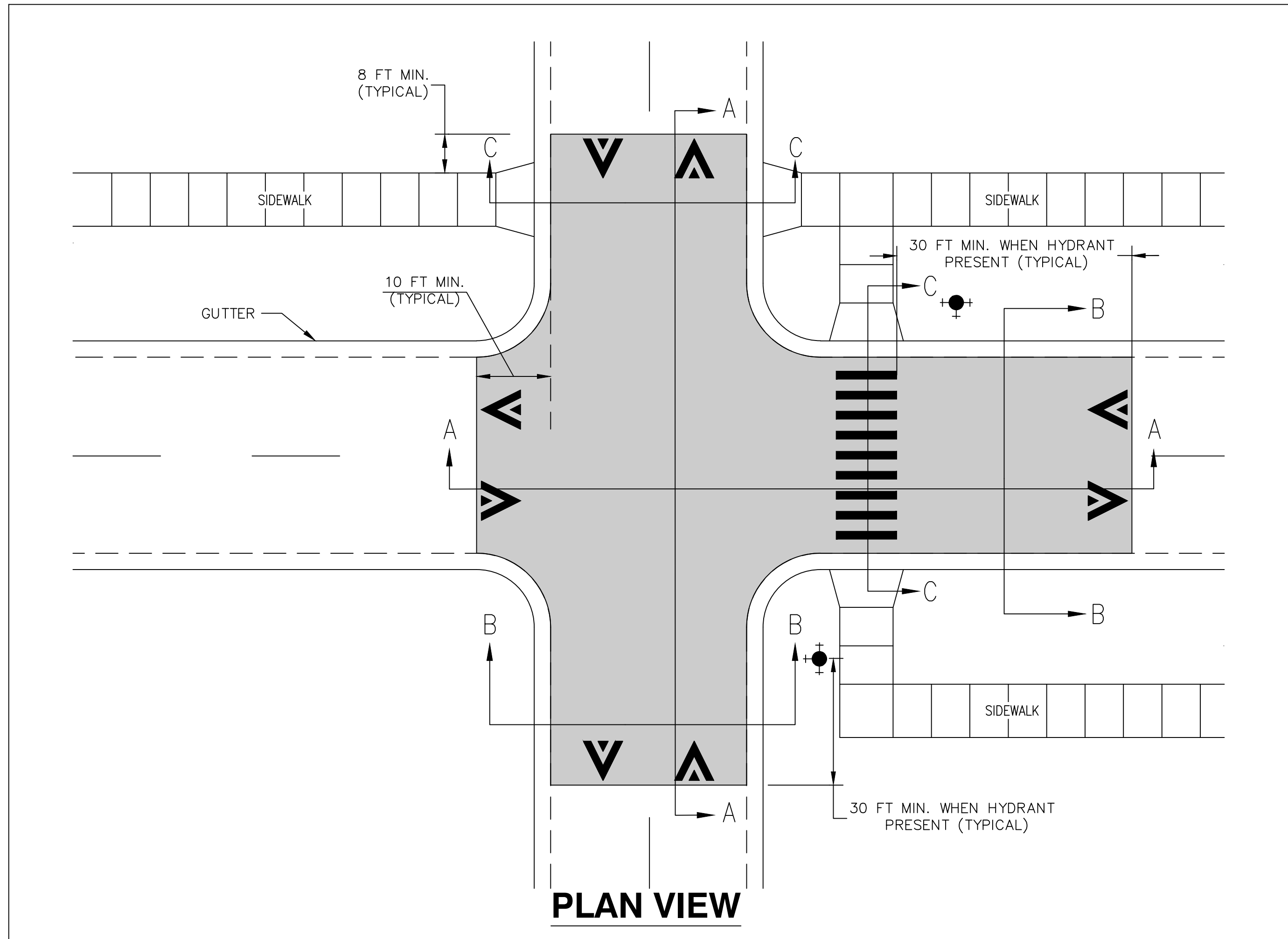
CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
STREET RESURFACING PROJECT - 2023
CONCRETE RAISE CROSS WALK DETAIL

SCALE PLAN: NTS
DRAWING No. 2023-004-9

SHEET No.

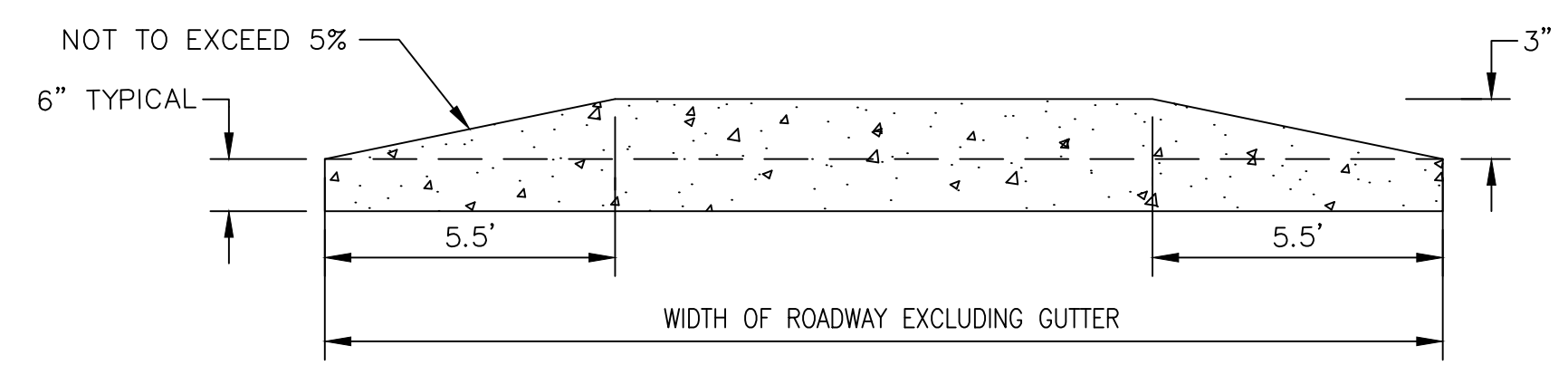
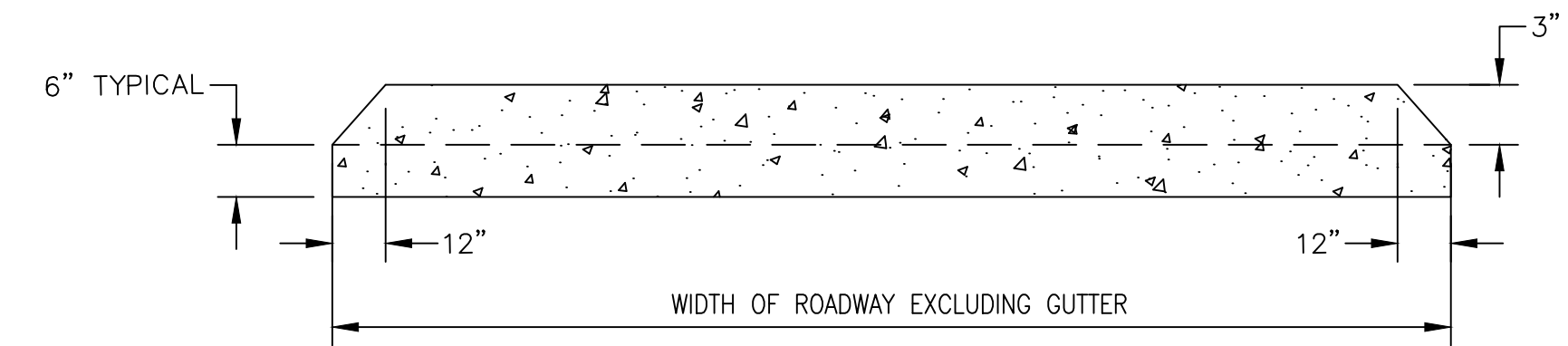
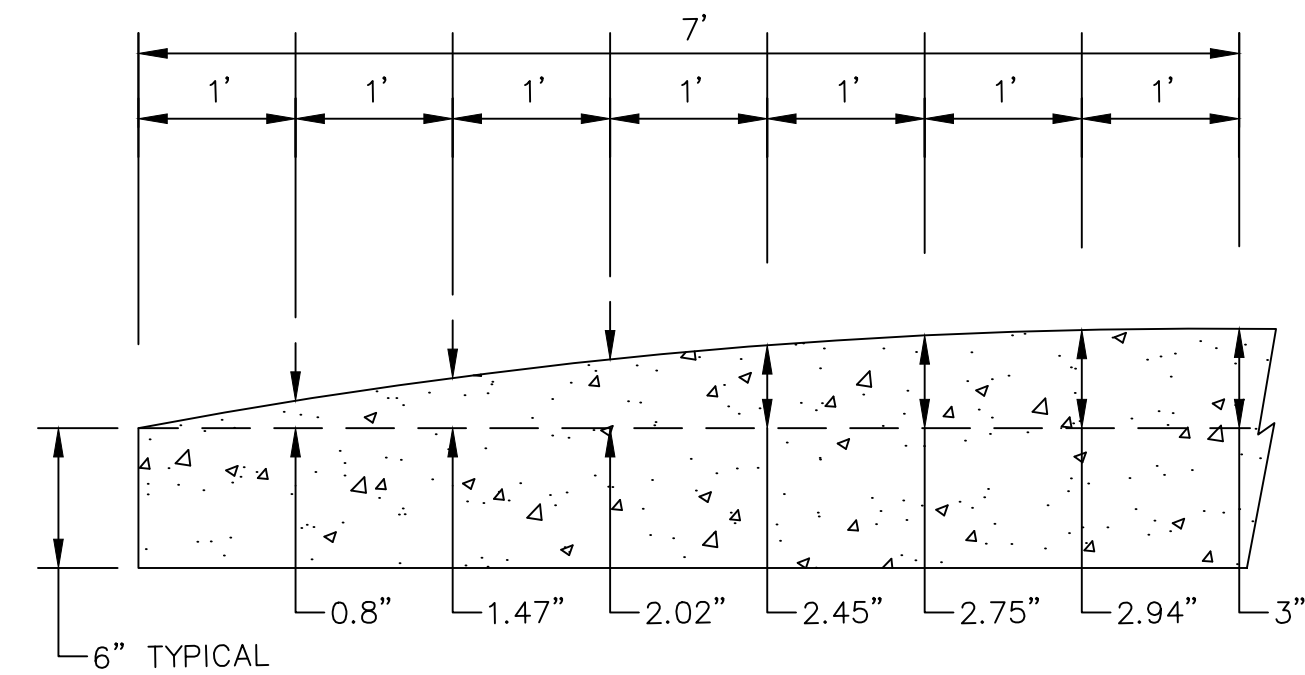
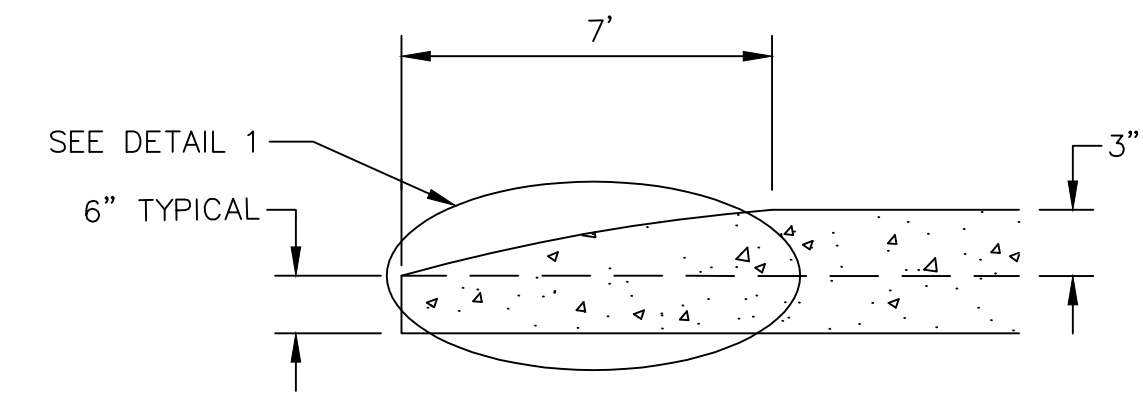
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GENERAL NOTES

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2. PAYMENT FOR PAVEMENT MARKINGS FOR SPEED HUMPS AND RAISED INTERSECTIONS SHALL BE INCLUDED IN THE RESPECTIVE BID ITEMS AND SHALL NOT BE PAID FOR SEPARATELY.



CONCRETE RAISE INTERSECTION DETAIL

SCALE: NOT TO SCALE

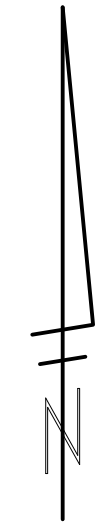


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 CONCRETE RAISE INTERSECTION DETAIL

SCALE PLAN: NTS
 DRAWING No. 2023-004-10
 SHEET No.



TRAFFIC CONTROL SIGN			
	SIGN	NUMBER	QUANTITY
①		W20-1 36x36	32
②		D3-1	2
③		D3-1	2
④		D3-1	2
⑤		D3-1	7
⑥		D3-1	2
⑦		D3-1	2
⑧		D3-1	3
⑨		D3-1	2


CONSTRUCTION NOTES:
 PLACE APPLICABLE D3-1 SIGN IN ADVANCE
 OF WORK PERFORMED ON EACH STREET
 PRIOR TO WORK BEGINNING.
 VERIFY EXACT QUANTITY AND LOCATION WITH
 ENGINEER PRIOR TO ORDERING AND PLACING
 TRAFFIC DEVICES.

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STREET RESURFACING PROJECT - 2023
 LOCAL STREET TRAFFIC CONTROL

SCALE: NTS


DRAWING No. 2023-004-11

SHEET No. 11 OF 31

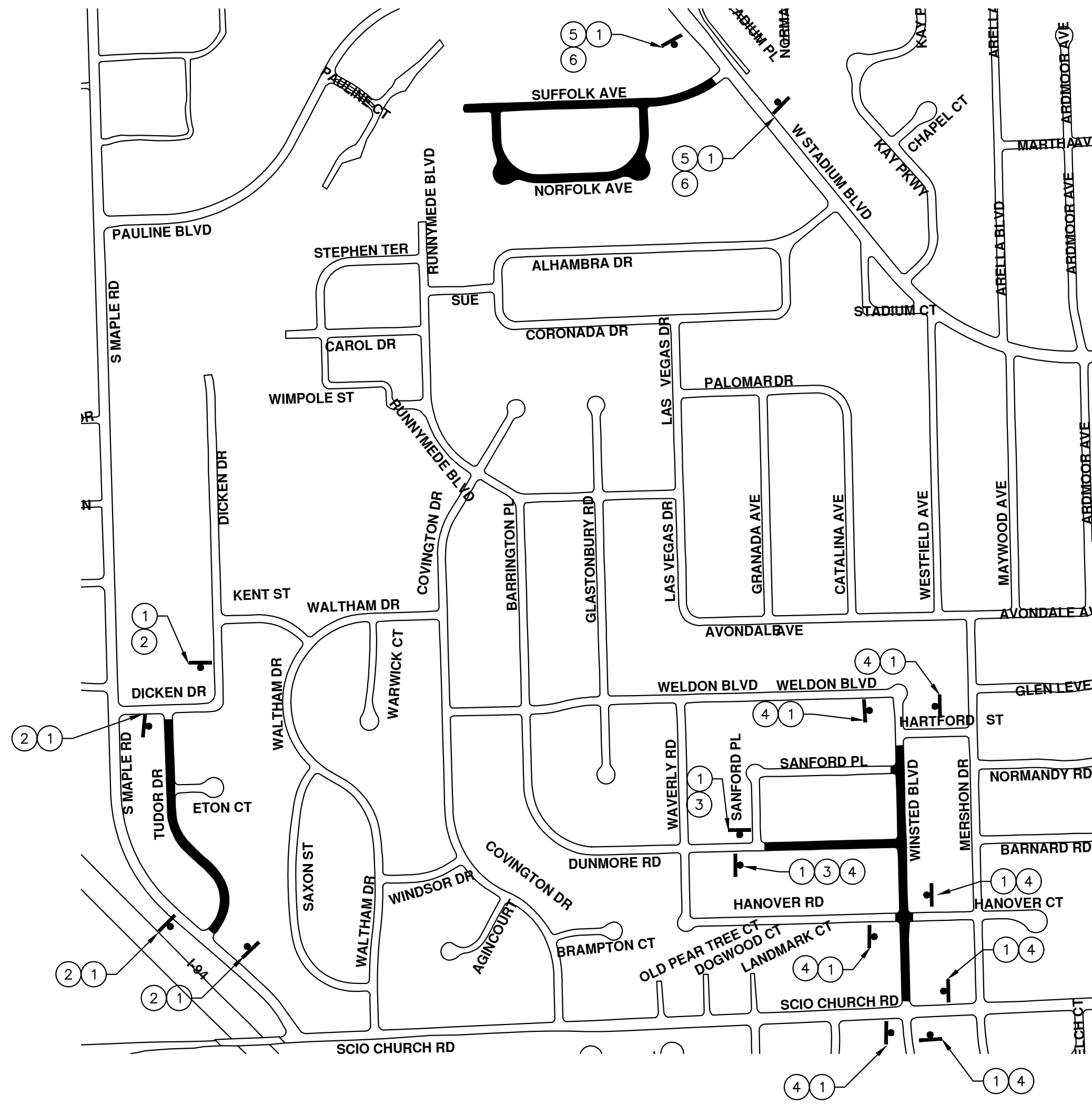


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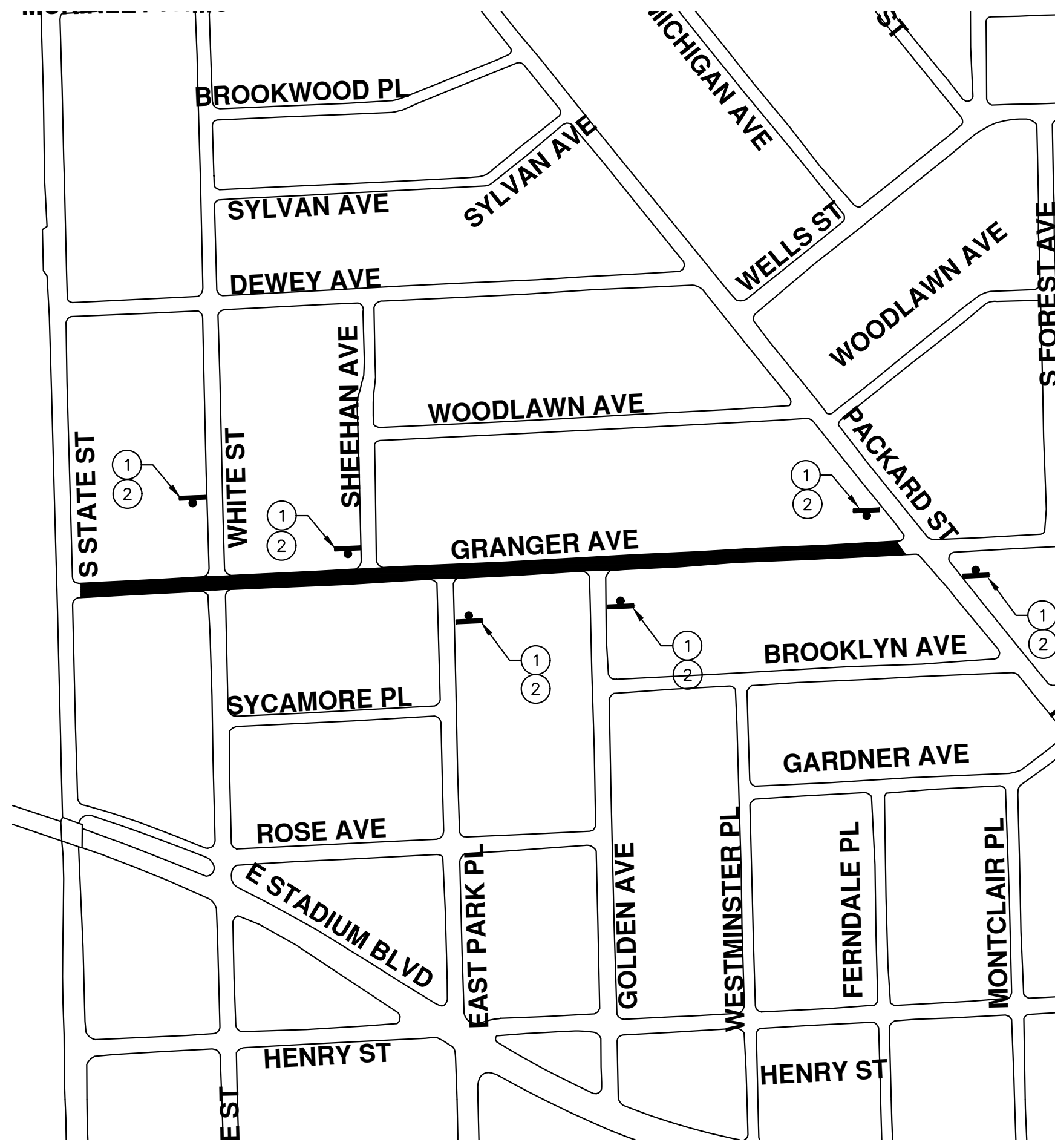
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TRAFFIC CONTROL SIGN			
	SIGN	NUMBER	QUANTITY
①		W20-1 36x36	2
②		D3-1	2
③		D3-1	2
④		D3-1	2
⑤		D3-1	2
⑥		D3-1	2

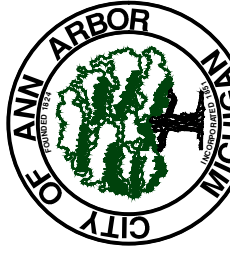


TRAFFIC CONTROL SIGN			
	SIGN	NUMBER	QUANTITY
①		W20-1 36x36	6
②		D3-1	6

CONSTRUCTION NOTES:
 PLACE APPLICABLE D3-1 SIGN IN ADVANCE OF WORK PERFORMED ON EACH STREET PRIOR TO WORK BEGINNING.
 VERIFY EXACT QUANTITY AND LOCATION WITH ENGINEER PRIOR TO ORDERING AND PLACING TRAFFIC DEVICES.



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 LOCAL STREET TRAFFIC CONTROL-2

SCALE: NTS
 DRAWING No.
 2023-004-12

SHEET No.

REV. DESCRIPTION DATE DRAWN CHECKED

REV.	DESCRIPTION	DATE	DRAWN	CHECKED
00	RFP SET	04/26/2023	AG/CE	JA



CITY OF ANN ARBOR ENGINEERING

PROJECT LOCATION: GRANGER TRAFFIC CALMING

RFP# 23-17, FILE No. 2023-004

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 1994 EDITION OF THE CITY OF ANN ARBOR PUBLIC SERVICES DEPARTMENT STANDARD SPECIFICATIONS, ITS DETAILS, WHICH ARE INCLUDED BY REFERENCE, AND THIS PROJECT'S CONTRACT DOCUMENTS. THE OMISSION OF ANY CURRENT STANDARD DETAIL DOES NOT RELIEVE THE CONTRACTOR FROM THIS REQUIREMENT.

HMA Surface, Rem	Syd	903.00
_ Raised Crosswalk, Conc	Syd	273.00
_ Raised Intersection, Conc	Syd	560.00
_ Speed Table, Conc	Syd	70.00
Pavt Mrkg, Thermopl, 12 inch, Crosswalk	Ft	512.00
Pavt Mrkg, Thermopl, 24 inch, Stop Bar	Ft	184.00
_ Pavt Mrkg, Ovly Cold Plastic, Speed Hump Chevron, White	Ea	28.00
Channelizing Device, 42 inch, Fluorescent, Furn	Ea	100.00
Channelizing Device, 42 inch, Fluorescent, Oper	Ea	100.00
Sign, Type B, Temp, Prismatic, Furn	Sft	189.00
Sign, Type B, Temp, Prismatic, Oper	Sft	189.00
Sign, Type B, Temp, Prismatic, Special, Furn	Sft	40.00
Sign, Type B, Temp, Prismatic, Special, Oper	Sft	40.00

Quantity	Sign Code	Description	Area (sft)	"Total Area (Sft)"
18.00	*D3-1	Street Name Sign	4.00	4.00
8.00	W20-1	Road Work Ahead Sign	9.00	9.00
6.00	W20-2	Detour Ahead	9.00	9.00
6.00	W20-3	Road Closed Ahead	9.00	9.00
8.00	W20-5R	Right Lane Closed Ahead	9.00	9.00
2.00	M4-8a	Detour Ends	3.00	3.00
4.00	M4-9S	Arrow ^ Detour	5.00	5.00
6.00	M4-9R	Right Arrow -----> Detour	5.00	5.00
4.00	M4-9L	Left Arrow <----- Detour	6.00	6.00
5.00	R11-4	Road Closed To Thru Traffic	12.50	12.50
		TOTAL		71.50

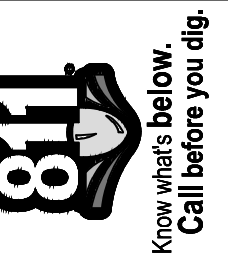
NOTES:

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THE IMPROVEMENTS COVERED BY THESE PLANS SHALL BE PERFORMED IN ACCORDANCE WITH MICHIGAN DEPARTMENT OF TRANSPORTATION (MDOT) 2012 STANDARD SPECIFICATIONS FOR CONSTRUCTION, INCLUDING REFERENCED MDOT PUBLICATIONS, AND THE PROJECT CONTRACT DOCUMENTS.

PLACE APPLICABLE D3-1 SIGN IN ADVANCE OF WORK PERFORMED ON EACH STREET PRIOR TO WORK BEGINNING AS SHOWN IN THE LOCAL TRAFFIC CONTROL PLAN. VERIFY EXACT SIGN QUANTITY AND LOCATION WITH ENGINEER PRIOR TO ORDERING AND PLACING TRAFFIC DEVICES.



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		AG/CE		DRAWN
		04/26/2023		DATE
				DESCRIPTION
		RFP SET		REV.
		00		REV.

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STREET RESURFACING PROJECT - 2023
GRANGER TRAFFIC CALMING
DRAWING No. 2023-004-13



CITY OF ANN ARBOR ENGINEERING

PROJECT LOCATION: S. HURON PKWY HMA PATH

RFP# 23-17, FILE No. 2023-004

_Curb, Gutter, and Curb and Gutter, Any Type, Rem	Ft	40.0000
_Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	Syd	44.3900
_Grading, Sidewalk	Syd	28.4400
_Grading, Sidewalk Ramp	Syd	38.8400
_Undercutting, Type IIA	Cyd	800.0000
Erosion Control, Silt Fence	Ft	100.0000
Erosion Control, Inlet Protection, Fabric Drop	Ea	16.0000
_Shared use Path, HMA Base Crushing and Shaping	Syd	858.0000
Geotextile, Stabilization	Syd	200.0000
_Dr Structure, Adj, Case 1, Modified	Ea	5.0000
HMA Surface, Rem	Syd	728.0000
Hand Patching	Ton	23.8500
_Curb and Gutter, Conc, Barrier	Ft	23.5000
Curb Ramp Opening, Conc	Ft	22.0000
_Sidewalk Ramp, Conc, 6 inch, Modified	Sft	271.5000
_Sidewalk Retaining Wall, Integral, 6 inch to 18 inch Height	Sft	60.0000
_Sidewalk, Conc, 4 inch, Modified	Sft	306.0000
Shared use Path, Aggregate	Ton	35.0000
Shared use Path, HMA	Ton	635.0000
_Shared use Path, Grading, Modified	Syd	753.0000
_Shared use Path, HMA, Wedging	Ton	125.0000
Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	Ea	15.0000
Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	Ea	15.0000
Channelizing Device, 42 inch, Fluorescent, Furn	Ea	90.0000
Channelizing Device, 42 inch, Fluorescent, Oper	Ea	90.0000
Lighted Arrow, Type C, Furn	Ea	1.0000
Lighted Arrow, Type C, Oper	Ea	1.0000
Plastic Drum, Fluorescent, Furn	Ea	40.0000
Plastic Drum, Fluorescent, Oper	Ea	40.0000
Sign, Portable, Changeable Message, Furn	Ea	4.0000
Sign, Portable, Changeable Message, Oper	Ea	4.0000
Sign, Type B, Temp, Prismatic, Furn	Sft	172.0000
Sign, Type B, Temp, Prismatic, Oper	Sft	172.0000
Sign, Type B, Temp, Prismatic, Special, Furn	Sft	16.0000
Sign, Type B, Temp, Prismatic, Special, Oper	Sft	16.0000
_Pedestrian Type II Barricade, Temp	Ea	21.0000
_Slope Restoration	Syd	1807.0000
Hh, Adj	Ea	1.0000

Quantity	Sign Code	Description	Area (sft)	"Total Area (Sft)"
4.00	*D3-1	Street Name Sign	4.00	16.00
4.00	G20-2	End Road Work	4.50	18.00
2.00	W3-5B	Reduce Speed Zone	9.00	18.00
2.00	W4-2R	Lane Ends / Right	9.00	18.00
4.00	W20-1	Road Work Ahead Sign	9.00	36.00
2.00	W20-5R	Right Lane Closed Ahead	9.00	18.00
4.00	R5-18C	Work Zone Begins	16.00	64.00
		TOTAL		172.00

NOTES:

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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.

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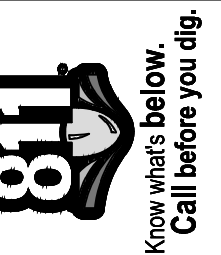
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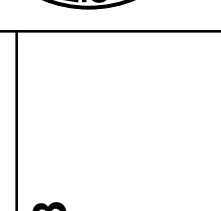
THE IMPROVEMENTS COVERED BY THESE PLANS SHALL BE PERFORMED IN ACCORDANCE WITH MICHIGAN DEPARTMENT OF TRANSPORTATION (MDOT) 2012 STANDARD SPECIFICATIONS FOR CONSTRUCTION, INCLUDING REFERENCED MDOT PUBLICATIONS, AND THE PROJECT CONTRACT DOCUMENTS.

PLACE APPLICABLE D3-1 SIGN IN ADVANCE OF WORK PERFORMED ON EACH STREET PRIOR TO WORK BEGINNING AS SHOWN IN THE LOCAL TRAFFIC CONTROL PLAN. VERIFY EXACT SIGN QUANTITY AND LOCATION WITH ENGINEER PRIOR TO ORDERING AND PLACING TRAFFIC DEVICES.



REV.	00	RFP SET	04/26/2023	DATE	AG/CE	JA	CHECKED

CITY OF ANN ARBOR
PUBLIC SERVICES
301 EAST HURON STREET
ANN ARBOR, MI 48106-8647
ANN ARBOR 734-794-6410
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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
STREET RESURFACING PROJECT - 2023
S. HURON PKWY HMA PATH
SUBSET COVER SHEET

SCALE: DRAWING No. 2023-004-14
SHEET No. 14 OF 31

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© STREET RESURFACING PROJECT - 2023; BID No. 23-17; 2023-004



CITY OF ANN ARBOR ENGINEERING

PROJECT LOCATION: ABERDEEN DR

RFP# 23-17, FILE No. 2023-004

Dr Structure, Rem	Ea	6.00
Sewer, Rem, Less than 24 inch	Ft	60.00
_Curb, Gutter, and Curb and Gutter, Any Type, Rem	Ft	162.00
_Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	Syd	21.33
_Grading, Driveway Approach	Syd	21.33
_Machine Grading, Special	Syd	2,436.00
_Undercutting, Type IIA	Cyd	730.80
Erosion Control, Inlet Protection, Fabric Drop	Ea	7.00
Dr Structure, 24 inch dia	Ea	6.00
_Dr Structure Cover, Type K, Modified	Ea	12.00
_Dr Structure, Adj, Case 1, Modified	Ea	14.00
_Dr Structure, Temp Lowering, Modified	Ea	8.00
_Underdrain, Subgrade, 6 inch, Special	Ft	70.00
Cold Milling HMA Surface	Syd	2,436.00
HMA Surface, Rem	Syd	40.00
HMA, LVSP	Ton	535.92
_Flowable Fill	Cyd	3.50
_Driveway, Nonreinf Conc, 6 inch, Modified	Syd	21.33
_Curb and Gutter, Conc, Barrier	Ft	120.00
_Driveway Opening, Conc, Det M, Modified	Ft	42.00
Pavt Mrkg, Thermopl, 24 inch, Stop Bar	Ft	13.00
Plastic Drum, Fluorescent, Furn	Ea	25.00
Plastic Drum, Fluorescent, Oper	Ea	25.00
Sign, Type B, Temp, Prismatic, Furn	Sft	115.00
Sign, Type B, Temp, Prismatic, Oper	Sft	115.00
Sign, Type B, Temp, Prismatic, Special, Furn	Sft	40.00
Sign, Type B, Temp, Prismatic, Special, Oper	Sft	40.00
_Temporary No Parking Sign	Ea	22.00
_Minor Traffic Control, Max \$135,000.00	LS	2.00
_Slope Restoration	Syd	50.00

Quantity	Sign Code	Description	Area (sft)	"Total Area (Sft)"
10.00	*D3-1	Street Name Sign	4.00	40.00
5.00	W20-1	Road Work Ahead Sign	9.00	45.00
5.00	W20-3	Road Closed Ahead	9.00	45.00
2.00	R11-4	Road Closed To Thru Traffic	12.50	25.00
TOTAL				155.00

NOTES:

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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
STREET RESURFACING PROJECT - 2023
ABERDEEN DR
SUBSET COVER SHEET

SCALE
DRAWING No.
2023-004-15

SHEET No.
15 OF 31

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CITY OF ANN ARBOR ENGINEERING

PROJECT LOCATION: AVON RD

RFP# 23-17, FILE No. 2023-004

NOTES:

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Dr Structure, Rem	Ea	7.00
_ Sewer, Abandon, Less than 24 inch	Ft	70.00
_ Curb, Gutter, and Curb and Gutter, Any Type, Rem	Ft	525.00
_ Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	Syd	30.00
_ Grading, Driveway Approach	Syd	30.00
_ Machine Grading, Special	Syd	5,778.74
_ Undercutting, Type IIA	Cyd	1,733.62
Erosion Control, Inlet Protection, Fabric Drop	Ea	15.00
Sewer, CI IV, 12 inch, Tr Det B	Ft	70.00
Dr Structure, 24 inch dia	Ea	7.00
_ Dr Structure Cover, Type K, Modified	Ea	7.00
_ Dr Structure, Adj, Case 1, Modified	Ea	18.00
_ Dr Structure, Point	Ea	1.00
_ Dr Structure, Temp Lowering, Modified	Ea	23.00
_ Underdrain, Subgrade, 6 inch, Special	Ft	70.00
HMA Surface, Rem	Syd	116.67
HMA, LVSP	Ton	1,271.32
_ Flowable Fill	Cyd	9.72
_ Driveway, Nonreinf Conc, 6 inch, Modified	Syd	30.00
_ Curb and Gutter, Conc, Barrier	Ft	290.00
_ Curb and Gutter, Conc, Mountable	Ft	235.00
Pavt Mrkg, Thermopl, 24 inch, Stop Bar	Ft	30.00
Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	Ea	4.00
Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	Ea	4.00
Plastic Drum, Fluorescent, Furn	Ea	40.00
Plastic Drum, Fluorescent, Oper	Ea	40.00
Sign, Type B, Temp, Prismatic, Furn	Sft	158.00
Sign, Type B, Temp, Prismatic, Oper	Sft	158.00
Sign, Type B, Temp, Prismatic, Special, Furn	Sft	48.00
Sign, Type B, Temp, Prismatic, Special, Oper	Sft	48.00
_ Temporary No Parking Sign	Ea	11.00
_ Slope Restoration	Syd	77.22
Gate Box, Adj, Case 1	Ea	5.00

Quantity	Sign Code	Description	Area (sft)	"Total Area (Sft)"
2.00	*D3-1	Street Name Sign	4.00	8.00
7.00	W20-1	Road Work Ahead Sign	9.00	63.00
7.00	W20-3	Road Closed Ahead	9.00	63.00
2.00	R11-4	Road Closed To Thru Traffic	12.50	25.00
		TOTAL		159.00

NOTES:

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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
STREET RESURFACING PROJECT - 2023
AVON RD
SUBSET COVER SHEET

SCALE
DRAWING No.
2023-004-16



CITY OF ANN ARBOR ENGINEERING

PROJECT LOCATION: BEDFORD RD

RFP# 23-17, FILE No. 2023-004

NOTES:

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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
STREET RESURFACING PROJECT - 2023
BEDFORD RD
SUBSET COVER SHEET

SCALE
DRAWING No.
2023-004-17

Bedford Arlington to Sharidan

Dr Structure, Rem	Ea	7.00
Sewer, Rem, Less than 24 inch	Ft	70.00
_Curb, Gutter, and Curb and Gutter, Any Type, Rem	Ft	426.00
_Exploratory Excavation, Vertical	Ft	3.00
_Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	Syd	4.00
_Grading, Driveway Approach	Syd	4.00
_Machine Grading, Special	Syd	2,769.44
_Undercutting, Type IIA	Cyd	831.00
Erosion Control, Inlet Protection, Fabric Drop	Ea	8.00
Sewer, CI IV, 12 inch, Tr Det B	Ft	70.00
Dr Structure, 24 inch dia	Ea	7.00
_Dr Structure Cover, Type K, Modified	Ea	7.00
_Dr Structure Cover, Type Q, Modified	Ea	9.00
_Dr Structure, Adj, Case 1, Modified	Ea	9.00
_Dr Structure, Temp Lowering, Modified	Ea	11.00
_Underdrain, Subgrade, 6 inch, Special	Ft	70.00
Cold Milling HMA Surface	Syd	2,769.44
HMA Surface, Rem	Syd	105.00
HMA, LVSP	Ton	612.00
_Flowable Fill	Cyd	8.00
_Driveway, Nonreinf Conc, 6 inch, Modified	Syd	4.00
_Curb and Gutter, Conc, Barrier	Ft	270.00
_Driveway Opening, Conc, Det M, Modified	Ft	156.00
Pavt Mrkg, Thermopl, 24 inch, Stop Bar	Ft	26.00
Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	Ea	2.00
Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	Ea	2.00
Plastic Drum, Fluorescent, Furn	Ea	50.00
Plastic Drum, Fluorescent, Oper	Ea	50.00
Sign, Type B, Temp, Prismatic, Furn	Sft	133.00
Sign, Type B, Temp, Prismatic, Oper	Sft	133.00
Sign, Type B, Temp, Prismatic, Special, Furn	Sft	48.00
Sign, Type B, Temp, Prismatic, Special, Oper	Sft	48.00
_Temporary No Parking Sign	Ea	30.00
_Slope Restoration	Syd	100.00
Gate Box, Adj, Case 1	Ea	2.00

Bedford Washtenaw to Londonderry

Dr Structure, Rem	Ea	2.00
Sewer, Rem, Less than 24 inch	Ft	20.00
_Curb, Gutter, and Curb and Gutter, Any Type, Rem	Ft	40.00
_Machine Grading, Special	Syd	2,639.00
_Undercutting, Type IIA	Cyd	791.70
Erosion Control, Inlet Protection, Fabric Drop	Ea	6.00
Sewer, CI IV, 12 inch, Tr Det B	Ft	20.00
Dr Structure, 24 inch dia	Ea	2.00
_Dr Structure Cover, Type K, Modified	Ea	2.00
_Dr Structure Cover, Type Q, Modified	Ea	3.00
_Dr Structure, Adj, Case 1, Modified	Ea	7.00
_Dr Structure, Temp Lowering, Modified	Ea	7.00
_Underdrain, Subgrade, 6 inch, Special	Ft	20.00
Cold Milling HMA Surface	Syd	2,639.00
HMA Surface, Rem	Syd	8.89
HMA, LVSP	Ton	580.58
_Curb and Gutter, Conc, Barrier	Ft	40.00
Pavt Mrkg, Thermopl, 12 inch, Crosswalk	Ft	192.00
Pavt Mrkg, Thermopl, 24 inch, Stop Bar	Ft	30.00
Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	Ea	4.00
Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	Ea	4.00
Plastic Drum, Fluorescent, Furn	Ea	20.00
Plastic Drum, Fluorescent, Oper	Ea	20.00
Sign, Type B, Temp, Prismatic, Furn	Sft	97.00
Sign, Type B, Temp, Prismatic, Oper	Sft	97.00
Sign, Type B, Temp, Prismatic, Special, Furn	Sft	32.00
Sign, Type B, Temp, Prismatic, Special, Oper	Sft	32.00
_Pedestrian Type II Barricade, Temp	Ea	6.00
_Temporary No Parking Sign	Ea	34.00
_Slope Restoration	Syd	10.00
Gate Box, Adj, Case 1	Ea	1.00

Quantity	Sign Code	Description	Area (sft)	"Total Area (Sft)"
12.00	*D3-1	Street Name Sign	4.00	48.00
6.00	W20-1	Road Work Ahead Sign	9.00	54.00
6.00	W20-3	Road Closed Ahead	9.00	54.00
2.00	R11-4	Road Closed To Thru Traffic	12.50	25.00
		TOTAL		181.00

Quantity	Sign Code	Description	Area (sft)	"Total Area (Sft)"
8.00	*D3-1	Street Name Sign	4.00	32.00
4.00	W20-1	Road Work Ahead Sign	9.00	36.00
4.00	W20-3	Road Closed Ahead	9.00	36.00
2.00	R11-4	Road Closed To Thru Traffic	12.50	25.00
		TOTAL		129.00

NOTES:

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THE IMPROVEMENTS COVERED BY THESE PLANS SHALL BE PERFORMED IN ACCORDANCE WITH MICHIGAN DEPARTMENT OF TRANSPORTATION (MDOT) 2012 STANDARD SPECIFICATIONS FOR CONSTRUCTION, INCLUDING REFERENCED MDOT PUBLICATIONS, AND THE PROJECT CONTRACT DOCUMENTS.

PLACE APPLICABLE D3-1 SIGN IN ADVANCE OF WORK PERFORMED ON EACH STREET PRIOR TO WORK BEGINNING AS SHOWN IN THE LOCAL TRAFFIC CONTROL PLAN. VERIFY EXACT SIGN QUANTITY AND LOCATION WITH ENGINEER PRIOR TO ORDERING AND PLACING TRAFFIC DEVICES.



CITY OF ANN ARBOR ENGINEERING

PROJECT LOCATION: BELFIELD CIR

BID No. 23-17, FILE No. 2023-004

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.

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Dr Structure, Rem	Ea	2.00
_Curb, Gutter, and Curb and Gutter, Any Type, Rem	Ft	40.00
_Machine Grading, Special	Syd	875.42
_Undercutting, Type IIA	Cyd	262.63
Erosion Control, Inlet Protection, Fabric Drop	Ea	3.00
Dr Structure, 24 inch dia	Ea	2.00
_Dr Structure Cover, Type K, Modified	Ea	4.00
_Dr Structure, Adj, Case 1, Modified	Ea	2.00
_Underdrain, Subgrade, 6 inch, Special	Ft	20.00
Cold Milling HMA Surface	Syd	875.42
HMA Surface, Rem	Syd	10.00
HMA, LVSP	Ton	200.00
_Flowable Fill	Cyd	2.00
_Curb and Gutter, Conc, Barrier	Ft	40.00
Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	Ea	2.00
Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	Ea	2.00
Plastic Drum, Fluorescent, Furn	Ea	15.00
Plastic Drum, Fluorescent, Oper	Ea	15.00
Sign, Type B, Temp, Prismatic, Furn	Sft	49.00
Sign, Type B, Temp, Prismatic, Oper	Sft	49.00
Sign, Type B, Temp, Prismatic, Special, Furn	Sft	16.00
Sign, Type B, Temp, Prismatic, Special, Oper	Sft	16.00
_Temporary No Parking Sign	Ea	10.00
_Slope Restoration	Syd	15.00
Gate Box, Adj, Case 1	Ea	1.00

Quantity	Sign Code	Description	Area (sft)	"Total Area (Sft)"
4.00	*D3-1	Street Name Sign	4.00	16.00
2.00	W20-1	Road Work Ahead Sign	9.00	18.00
2.00	W20-5R	Right Lane Closed Ahead	9.00	18.00
1.00	R11-4	Road Closed To Thru Traffic	12.50	13.00
		TOTAL		65.00

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.

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CITY OF ANN ARBOR
PUBLIC SERVICES
301 EAST HURON STREET
ANN ARBOR, MI 48107-8647
734.794.6410
www.a2gov.org



CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
STREET RESURFACING PROJECT - 2023
BELFIELD CIR
SUBSET COVER SHEET

SCALE
DRAWING No.
2023-004-18



CITY OF ANN ARBOR ENGINEERING

PROJECT LOCATION: BURSON PL

RFP# 23-17, FILE No. 2023-004

NOTES:

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Dr Structure, Rem	Ea	1.00
Sewer, Rem, Less than 24 inch	Ft	10.00
_Curb, Gutter, and Curb and Gutter, Any Type, Rem	Ft	295.00
_Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	Syd	40.00
_Grading, Driveway Approach	Syd	40.00
_Machine Grading, Special	Syd	1,900.00
_Undercutting, Type IIA	Cyd	570.00
Erosion Control, Silt Fence	Ft	100.00
Erosion Control, Inlet Protection, Fabric Drop	Ea	4.00
Sewer, Cl IV, 12 inch, Tr Det B	Ft	10.00
Dr Structure, 24 inch dia	Ea	1.00
_Dr Structure Cover, Type K, Modified	Ea	2.00
_Dr Structure, Adj, Case 1, Modified	Ea	2.00
_Dr Structure, Temp Lowering, Modified	Ea	2.00
_Structure, Reconstruct	Ea	1.00
_Underdrain, Subgrade, 6 inch, Special	Ft	10.00
Cold Milling HMA Surface	Syd	1,900.00
HMA Surface, Rem	Syd	70.00
HMA, LVSP	Ton	425.00
_Cold Milling for Concrete Curb and Gutter Reveal	Syd	166.00
_Cold Milling HMA Surface, Driveway Approach	Syd	50.00
_HMA, Wedging, 36A	Ton	5.00
_Flowable Fill	Cyd	6.00
_Driveway, Nonreinf Conc, 6 inch, Modified	Syd	40.00
_Curb and Gutter, Conc, Barrier	Ft	175.00
_Driveway Opening, Conc, Det M, Modified	Ft	120.00
Pavt Mrkg, Thermopl, 12 inch, Crosswalk	Ft	64.00
Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	Ea	1.00
Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	Ea	1.00
Plastic Drum, Fluorescent, Furn	Ea	25.00
Plastic Drum, Fluorescent, Oper	Ea	25.00
Sign, Type B, Temp, Prismatic, Furn	Sft	49.00
Sign, Type B, Temp, Prismatic, Oper	Sft	49.00
Sign, Type B, Temp, Prismatic, Special, Furn	Sft	16.00
Sign, Type B, Temp, Prismatic, Special, Oper	Sft	16.00
_Pedestrian Type II Barricade, Temp	Ea	4.00
_Temporary No Parking Sign	Ea	15.00
_Slope Restoration	Syd	100.00

Quantity	Sign Code	Description	Area (sft)	"Total Area (Sft)"
4.00	*D3-1	Street Name Sign	4.00	16.00
2.00	W20-1	Road Work Ahead Sign	9.00	18.00
2.00	W20-3	Road Closed Ahead	9.00	18.00
1.00	R11-4	Road Closed To Thru Traffic	12.50	13.00
		TOTAL		65.00

NOTES:

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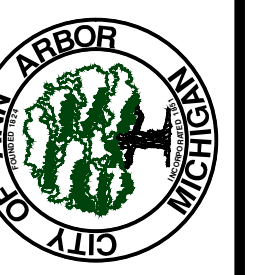
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CITY OF ANN ARBOR
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ANN ARBOR, MI 48106-8647
734.794.6410
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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
STREET RESURFACING PROJECT - 2023
BURSON PL
SUBSET COVER SHEET

SCALE
DRAWING No.
2023-004-19



CITY OF ANN ARBOR ENGINEERING

PROJECT LOCATION: DEVONSHIRE RD

RFP# 23-17, FILE No. 2023-004

Dr Structure, Rem	Ea	4.00
_Sewer, Abandon, Less than 24 inch	Ft	40.00
_Curb, Gutter, and Curb and Gutter, Any Type, Rem	Ft	384.00
_Machine Grading, Special	Syd	3,339.00
_Undercutting, Type IIA	Cyd	1,001.70
Erosion Control, Inlet Protection, Fabric Drop	Ea	10.00
Sewer, Cl IV, 12 inch, Tr Det B	Ft	40.00
Dr Structure, 24 inch dia	Ea	4.00
_Dr Structure Cover, Type K, Modified	Ea	4.00
_Dr Structure, Adj, Case 1, Modified	Ea	10.00
_Dr Structure, Temp Lowering, Modified	Ea	11.00
_Underdrain, Subgrade, 6 inch, Special	Ft	40.00
Cold Milling HMA Surface	Syd	3,339.00
HMA, LVSP	Ton	734.58
_Flowable Fill	Cyd	5.00
_Curb and Gutter, Conc, Barrier	Ft	330.00
_Driveway Opening, Conc, Det M, Modified	Ft	54.00
Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	Ea	2.00
Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	Ea	2.00
Plastic Drum, Fluorescent, Furn	Ea	30.00
Plastic Drum, Fluorescent, Oper	Ea	30.00
Sign, Type B, Temp, Prismatic, Furn	Sft	110.00
Sign, Type B, Temp, Prismatic, Oper	Sft	110.00
Sign, Type B, Temp, Prismatic, Special, Furn	Sft	20.00
Sign, Type B, Temp, Prismatic, Special, Oper	Sft	20.00
_Temporary No Parking Sign	Ea	32.00
_Slope Restoration	Syd	110.00
Gate Box, Adj, Case 1	Ea	1.00

Quantity	Sign Code	Description	Area (sft)	"Total Area (Sft)"
6.00	*D3-1	Street Name Sign	4.00	24.00
3.00	W20-1	Road Work Ahead Sign	9.00	27.00
3.00	W20-3	Road Closed Ahead	9.00	27.00
2.00	R11-4	Road Closed To Thru Traffic	12.50	25.00
TOTAL				103.00

NOTES

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NOTES

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CITY OF ANN ARBOR
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ANN ARBOR, MI 48106-3647
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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
STREET RESURFACING PROJECT - 2023
DEVONSHIRE RD
SUBSET COVER SHEET

SCALE
DRAWING No.
2023-004-20

SHEET No.
20 OF 31

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© STREET RESURFACING PROJECT - 2023; BID No. 23-17; 2023-004



CITY OF ANN ARBOR ENGINEERING

PROJECT LOCATION: DUNMOOR RD

RFP# 23-17, FILE No. 2023-004

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 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.

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Dr Structure, Rem	Ea	3.00
Sewer, Rem, Less than 24 inch	Ft	30.00
_Curb, Gutter, and Curb and Gutter, Any Type, Rem	Ft	544.00
_Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	Syd	7.00
_Grading, Driveway Approach	Syd	96.11
_Machine Grading, Special	Syd	1,891.00
_Undercutting, Type IIA	Cyd	567.30
Erosion Control, Inlet Protection, Fabric Drop	Ea	6.00
Sewer, CI IV, 12 inch, Tr Det B	Ft	30.00
Dr Structure, 24 inch dia	Ea	3.00
_Dr Structure Cover, Type K, Modified	Ea	3.00
_Dr Structure Cover, Type Q, Modified	Ea	1.00
_Dr Structure, Adj, Case 1, Modified	Ea	1.00
_Dr Structure, Temp Lowering, Modified	Ea	1.00
_Underdrain, Subgrade, 6 inch, Special	Ft	30.00
Cold Milling HMA Surface	Syd	1,891.00
HMA Surface, Rem	Syd	70.00
HMA, LVSP	Ton	416.02
_Flowable Fill	Cyd	6.00
_Curb and Gutter, Conc, Barrier	Ft	310.00
_Driveway Opening, Conc, Det M, Modified	Ft	234.00
_Detectable Warning Surface, Modified	Ft	6.00
_Sidewalk Ramp, Conc, 6 inch, Modified	Sft	7.00
_Sidewalk, Conc, 6 inch, Modified	Sft	36.00
Pavt Mrkg, Thermopl, 12 inch, Crosswalk	Ft	90.00
Pavt Mrkg, Thermopl, 24 inch, Stop Bar	Ft	15.00
Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	Ea	4.00
Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	Ea	4.00
Plastic Drum, Fluorescent, Furn	Ea	22.00
Plastic Drum, Fluorescent, Oper	Ea	22.00
Sign, Type B, Temp, Prismatic, Furn	Sft	61.00
Sign, Type B, Temp, Prismatic, Oper	Sft	61.00
Sign, Type B, Temp, Prismatic, Special, Furn	Sft	16.00
Sign, Type B, Temp, Prismatic, Special, Oper	Sft	16.00
_Pedestrian Type II Barricade, Temp	Ea	3.00
_Temporary No Parking Sign	Ea	15.00
_Slope Restoration	Syd	65.00

Quantity	Sign Code	Description	Area (sft)	"Total Area (Sft)"
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TOTAL				129.00

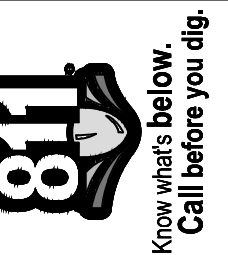
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NO.	DATE	DESCRIPTION	REV.
	04/26/2023	AG/CE	DRAWN
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CITY OF ANN ARBOR
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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
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DUNMOOR RD
SUBSET COVER SHEET

SHEET No.
21 OF 31



CITY OF ANN ARBOR ENGINEERING

PROJECT LOCATION: HARVARD PL

RFP# 23-17, FILE No. 2023-004

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 1994 EDITION OF THE CITY OF ANN ARBOR PUBLIC SERVICES DEPARTMENT STANDARD SPECIFICATIONS, ITS DETAILS, WHICH ARE INCLUDED BY REFERENCE, AND THIS PROJECT'S CONTRACT DOCUMENTS. THE OMISSION OF ANY CURRENT STANDARD DETAIL DOES NOT RELIEVE THE CONTRACTOR FROM THIS REQUIREMENT.

Dr Structure, Rem	Ea	2.00
Sewer, Rem, Less than 24 inch	Ft	20.00
_Curb, Gutter, and Curb and Gutter, Any Type, Rem	Ft	648.00
_Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	Syd	44.79
_Grading, Driveway Approach	Syd	44.79
_Machine Grading, Special	Syd	1,694.68
Erosion Control, Inlet Protection, Fabric Drop	Ea	3.00
Sewer, CI IV, 12 inch, Tr Det B	Ft	20.00
Dr Structure, 24 inch dia	Ea	2.00
_Dr Structure Cover, Type K, Modified	Ea	2.00
_Dr Structure Cover, Type Q, Modified	Ea	1.00
_Dr Structure, Adj, Case 1, Modified	Ea	7.00
_Dr Structure, Temp Lowering, Modified	Ea	7.00
_Underdrain, Subgrade, 6 inch, Special	Ft	20.00
Cold Milling HMA Surface	Syd	1,694.68
HMA Surface, Rem	Syd	144.00
HMA, LVSP	Ton	447.69
_Cold Milling for Concrete Curb and Gutter Reveal	Syd	100.00
_Cold Milling HMA Surface, Driveway Approach	Syd	60.00
_HMA, Wedging, 36A	Ton	6.00
_Flowable Fill	Cyd	13.00
_Driveway, Nonreinf Conc, 6 inch, Modified	Syd	44.79
_Curb and Gutter, Conc, Barrier	Ft	495.00
_Driveway Opening, Conc, Det M, Modified	Ft	153.00
Pavt Mrkg, Thermopl, 12 inch, Crosswalk	Ft	72.00
Pavt Mrkg, Thermopl, 24 inch, Stop Bar	Ft	6.00
Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	Ea	1.00
Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	Ea	1.00
Plastic Drum, Fluorescent, Furn	Ea	60.00
Plastic Drum, Fluorescent, Oper	Ea	60.00
Sign Cover	Ea	4.00
Sign, Type B, Temp, Prismatic, Furn	Sft	49.00
Sign, Type B, Temp, Prismatic, Oper	Sft	49.00
Sign, Type B, Temp, Prismatic, Special, Furn	Sft	16.00
Sign, Type B, Temp, Prismatic, Special, Oper	Sft	16.00
_Pedestrian Type II Barricade, Temp	Ea	4.00
_Temporary No Parking Sign	Ea	30.00
_Slope Restoration	Syd	175.00

Quantity	Sign Code	Description	Area (sft)	"Total Area (Sft)"
4.00	*D3-1	Street Name Sign	4.00	16.00
2.00	W20-1	Road Work Ahead Sign	9.00	18.00
2.00	W20-3	Road Closed Ahead	9.00	18.00
1.00	R11-4	Road Closed To Thru Traffic	12.50	13.00
		TOTAL		65.00

NOTES:

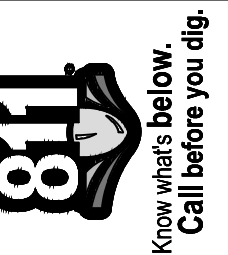
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			DESCRIPTION

CITY OF ANN ARBOR
PUBLIC SERVICES
301 EAST HURON STREET
ANN ARBOR, MI 48106-8647
734.794.4410
www.a2gov.org



CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
STREET RESURFACING PROJECT - 2023
HARVARD PL
SUBSET COVER SHEET

SCALE
DRAWING No.
2023-004-22

SHEET No.
22 OF 31

© STREET RESURFACING PROJECT - 2023; BID No. 23-17; 2023-004



CITY OF ANN ARBOR ENGINEERING

PROJECT LOCATION: HAWTHORNE RD

RFP# 23-17, FILE No. 2023-004

NOTES:

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Dr Structure, Rem	Ea	4.00
Sewer, Rem, Less than 24 inch	Ft	40.00
_Curb, Gutter, and Curb and Gutter, Any Type, Rem	Ft	488.00
_Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	Syd	62.89
_Grading, Driveway Approach	Syd	62.89
_Machine Grading, Special	Syd	4,676.67
_Undercutting, Type IIA	Cyd	1,402.80
Erosion Control, Inlet Protection, Fabric Drop	Ea	8.00
Sewer, CI IV, 12 inch, Tr Det B	Ft	40.00
Dr Structure, 24 inch dia	Ea	4.00
_Dr Structure Cover, Type K, Modified	Ea	6.00
_Dr Structure Cover, Type Q, Modified	Ea	10.00
_Dr Structure, Adj, Case 1, Modified	Ea	12.00
_Dr Structure, Temp Lowering, Modified	Ea	12.00
_Underdrain, Subgrade, 6 inch, Special	Ft	40.00
Cold Milling HMA Surface	Syd	4,676.67
HMA Surface, Rem	Syd	4.00
HMA, LVSP	Ton	1,028.87
_Flowable Fill	Cyd	9.04
_Driveway, Nonreinf Conc, 6 inch, Modified	Syd	62.89
_Curb and Gutter, Conc, Barrier	Ft	170.00
_Driveway Opening, Conc, Det M, Modified	Ft	218.00
_Sidewalk, Conc or Clay Brick Pavers, Rem and Reinstall	Sft	48.00
Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	Ea	3.00
Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	Ea	3.00
Plastic Drum, Fluorescent, Furn	Ea	20.00
Plastic Drum, Fluorescent, Oper	Ea	20.00
Sign, Type B, Temp, Prismatic, Furn	Sft	128.00
Sign, Type B, Temp, Prismatic, Oper	Sft	128.00
Sign, Type B, Temp, Prismatic, Special, Furn	Sft	40.00
Sign, Type B, Temp, Prismatic, Special, Oper	Sft	40.00
_Temporary No Parking Sign	Ea	38.00
_Slope Restoration	Syd	121.33
_Private Utility Box, Adj, Case 1	Ea	2.00

Quantity	Sign Code	Description	Area (sft)	"Total Area (Sft)"
10	*D3-1	Street Name Sign	4.00	40.00
5	W20-1	Road Work Ahead Sign	9.00	45.00
5	W20-3	Road Closed Ahead	9.00	45.00
2	R11-4	Road Closed To Thru Traffic	12.50	25.00
		TOTAL		155.00

NOTES:

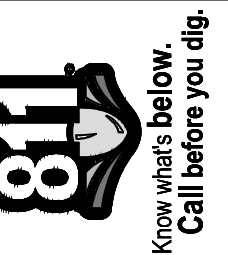
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CITY OF ANN ARBOR
PUBLIC SERVICES
301 EAST HURON STREET
ANN ARBOR, MI 48106-0647
734.794.4410
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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
STREET RESURFACING PROJECT - 2023
HAWTHORNE RD
SUBSET COVER SHEET

DRAWING No.
2023-004-23

SHEET No.
23 OF 31

© STREET RESURFACING PROJECT - 2023; BID No. 23-17; 2023-004



CITY OF ANN ARBOR ENGINEERING

PROJECT LOCATION: MELROSE RD

RFP# 23-17, FILE No. 2023-004

NOTES:

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Dr Structure, Rem	Ea	2.00
Sewer, Rem, Less than 24 inch	Ft	20.00
_Curb, Gutter, and Curb and Gutter, Any Type, Rem	Ft	71.00
_Machine Grading, Special	Syd	1,232.18
_Undercutting, Type IIA	Cyd	370.00
Erosion Control, Inlet Protection, Fabric Drop	Ea	3.00
Sewer, CI IV, 12 inch, Tr Det B	Ft	20.00
Dr Structure, 24 inch dia	Ea	2.00
_Dr Structure Cover, Type K, Modified	Ea	2.00
_Dr Structure, Adj, Case 1, Modified	Ea	7.00
_Dr Structure, Temp Lowering, Modified	Ea	11.00
_Underdrain, Subgrade, 6 inch, Special	Ft	20.00
Cold Milling HMA Surface	Syd	1,232.18
HMA Surface, Rem	Syd	18.00
HMA, LVSP	Ton	271.08
_Curb and Gutter, Conc, Barrier	Ft	50.00
_Driveway Opening, Conc, Det M, Modified	Ft	21.00
Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	Ea	2.00
Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	Ea	2.00
Plastic Drum, Fluorescent, Furn	Ea	20.00
Plastic Drum, Fluorescent, Oper	Ea	20.00
Sign, Type B, Temp, Prismatic, Furn	Sft	115.00
Sign, Type B, Temp, Prismatic, Oper	Sft	115.00
Sign, Type B, Temp, Prismatic, Special, Furn	Sft	40.00
Sign, Type B, Temp, Prismatic, Special, Oper	Sft	40.00
_Pedestrian Type II Barricade, Temp	Ea	6.00
_Temporary No Parking Sign	Ea	34.00
_Slope Restoration	Syd	18.00
Gate Box, Adj, Case 1	Ea	4.00

Quantity	Sign Code	Description	Area (sft)	"Total Area (Sft)"
10.00	*D3-1	Street Name Sign	4.00	40.00
5.00	W20-1	Road Work Ahead Sign	9.00	45.00
5.00	W20-3	Road Closed Ahead	9.00	45.00
2.00	R11-4	Road Closed To Thru Traffic	12.50	25.00
		TOTAL		155.00

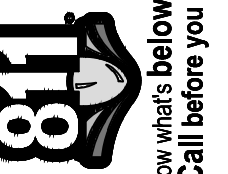
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CITY OF ANN ARBOR
PUBLIC SERVICES
301 EAST HURON STREET
ANN ARBOR, MI 48106-8647
734.794.6410
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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
STREET RESURFACING PROJECT - 2023
MELROSE RD
SUBSET COVER SHEET

DRAWING No.
2023-004-24

SHEET No.
24 OF 31



CITY OF ANN ARBOR ENGINEERING

PROJECT LOCATION: NORFOLK ST

RFP# 23-17, FILE No. 2023-004

Dr Structure, Rem	Ea	8.00
Sewer, Rem, Less than 24 inch	Ft	60.00
_Curb, Gutter, and Curb and Gutter, Any Type, Rem	Ft	919.00
_Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	Syd	144.78
_Grading, Driveway Approach	Syd	138.11
_Machine Grading, Special	Syd	4,775.55
_Undercutting, Type IIA	Cyd	1,432.66
Erosion Control, Inlet Protection, Fabric Drop	Ea	9.00
Sewer, CI IV, 12 inch, Tr Det B	Ft	60.00
Dr Structure, 24 inch dia	Ea	8.00
_Dr Structure Cover, Type D, Modified	Ea	2.00
_Dr Structure Cover, Type K, Modified	Ea	6.00
_Dr Structure Cover, Type Q, Modified	Ea	2.00
_Dr Structure, Adj, Case 1, Modified	Ea	17.00
_Dr Structure, Temp Lowering, Modified	Ea	15.00
_Underdrain, Subgrade, 6 inch, Special	Ft	80.00
Cold Milling HMA Surface	Syd	4,775.55
HMA Surface, Rem	Syd	179.77
HMA, LVSP	Ton	1,051.00
_Flowable Fill	Cyd	21.05
_Driveway, Nonreinf Conc, 6 inch, Modified	Syd	138.11
_Curb and Gutter, Conc, Barrier	Ft	356.00
_Driveway Opening, Conc, Det M, Modified	Ft	551.00
Curb Ramp Opening, Conc	Ft	12.00
_Detectable Warning Surface, Modified	Ft	10.00
_Sidewalk Ramp, Conc, 6 inch, Modified	Sft	60.00
Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	Ea	2.00
Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	Ea	2.00
Plastic Drum, Fluorescent, Furn	Ea	46.00
Plastic Drum, Fluorescent, Oper	Ea	46.00
Sign, Type B, Temp, Prismatic, Furn	Sft	61.00
Sign, Type B, Temp, Prismatic, Oper	Sft	61.00
Sign, Type B, Temp, Prismatic, Special, Furn	Sft	16.00
Sign, Type B, Temp, Prismatic, Special, Oper	Sft	16.00
_Pedestrian Type II Barricade, Temp	Ea	4.00
_Temporary No Parking Sign	Ea	31.00
_Slope Restoration	Syd	195.44
_Private Utility Box, Adj, Case 2	Ea	1.00

Quantity	Sign Code	Description	Area (sft)	"Total Area (Sft)"
4.00	*D3-1	Street Name Sign	4.00	16.00
2.00	W20-1	Road Work Ahead Sign	9.00	18.00
2.00	W20-3	Road Closed Ahead	9.00	18.00
2.00	R11-4	Road Closed To Thru Traffic	12.50	25.00
TOTAL				77.00

NOTES

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Know what's below.
Call before you dig.

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									DESCRIPTION

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
STREET RESURFACING PROJECT - 2023
NORFOLK ST
SUBSET COVER SHEET

SCALE
DRAWING No.
2023-004-25

SHEET No.
25 OF 31



CITY OF ANN ARBOR ENGINEERING

PROJECT LOCATION: SHANNONDALE RD

RFP# 23-17, FILE No. 2023-004

NOTES:

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Dr Structure, Rem	Ea	4.0000
Sewer, Rem, Less than 24 inch	Ft	40.0000
_ Curb, Gutter, and Curb and Gutter, Any Type, Rem	Ft	240.0000
_ Machine Grading, Special	Syd	2,320.0000
_ Undercutting, Type IIA	Cyd	696.0000
Erosion Control, Inlet Protection, Fabric Drop	Ea	6.0000
Sewer, CI IV, 12 inch, Tr Det B	Ft	40.0000
Dr Structure, 24 inch dia	Ea	4.0000
_ Dr Structure Cover, Type K, Modified	Ea	4.0000
_ Dr Structure Cover, Type Q, Modified	Ea	6.0000
_ Dr Structure, Adj, Case 1, Modified	Ea	6.0000
_ Dr Structure, Temp Lowering, Modified	Ea	6.0000
_ Underdrain, Subgrade, 6 inch, Special	Ft	40.0000
Cold Milling HMA Surface	Syd	2,320.0000
HMA Surface, Rem	Syd	53.3300
HMA, LVSP	Ton	510.0000
_ Flowable Fill	Cyd	1.3000
_ Curb and Gutter, Conc, Barrier	Ft	180.0000
_ Driveway Opening, Conc, Det M, Modified	Ft	60.0000
Pavt Mrkg, Thermopl, 24 inch, Stop Bar	Ft	15.0000
Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	Ea	2.0000
Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	Ea	2.0000
Plastic Drum, Fluorescent, Furn	Ea	20.0000
Plastic Drum, Fluorescent, Oper	Ea	20.0000
Sign, Type B, Temp, Prismatic, Furn	Sft	97.0000
Sign, Type B, Temp, Prismatic, Oper	Sft	97.0000
Sign, Type B, Temp, Prismatic, Special, Furn	Sft	32.0000
Sign, Type B, Temp, Prismatic, Special, Oper	Sft	32.0000
_ Temporary No Parking Sign	Ea	19.0000
_ Slope Restoration	Syd	53.3300

Quantity	Sign Code	Description	"Total Area (Sft)"
8.00	*D3-1	Street Name Sign	32.00
4.00	W20-1	Road Work Ahead Sign	36.00
4.00	W20-3	Road Closed Ahead	36.00
2.00	R11-4	Road Closed To Thru Traffic	25.00
		TOTALS	129.00

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.

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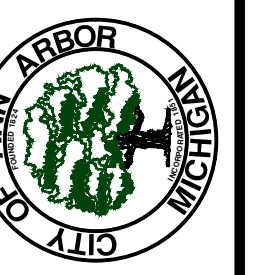
PLACE APPLICABLE D3-1 SIGN IN ADVANCE OF WORK PERFORMED ON EACH STREET PRIOR TO WORK BEGINNING AS SHOWN IN THE LOCAL TRAFFIC CONTROL PLAN. VERIFY EXACT SIGN QUANTITY AND LOCATION WITH ENGINEER PRIOR TO ORDERING AND PLACING TRAFFIC DEVICES.

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				DESCRIPTION

CITY OF ANN ARBOR
PUBLIC SERVICES
301 EAST HURON STREET
ANN ARBOR, MI 48106-8647
734.794.4410
www.a2gov.org



CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
STREET RESURFACING PROJECT - 2023
SHANNONDALE RD
SUBSET COVER SHEET

DRAWING No.
2023-004-26



CITY OF ANN ARBOR ENGINEERING

PROJECT LOCATION: STRATFORD DR

RFP# 23-17, FILE No. 2023-004

_ Curb, Gutter, and Curb and Gutter, Any Type, Rem	Ft	100.00
_ Machine Grading, Special	Syd	1,166.66
_ Undercutting, Type IIA	Cyd	400.00
_ Dr Structure, Temp Lowering, Modified	Ea	2.00
Cold Milling HMA Surface	Syd	1,166.66
HMA Surface, Rem	Syd	35.00
HMA, LVSP	Ton	280.00
_ Cold Milling for Concrete Curb and Gutter Reveal	Syd	166.67
_ Cold Milling HMA Surface, Driveway Approach	Syd	5.00
_ HMA, Wedging, 36A	Ton	2.00
_ Flowable Fill	Cyd	3.00
_ Curb and Gutter, Conc, Barrier	Ft	100.00
Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	Ea	1.00
Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	Ea	1.00
Plastic Drum, Fluorescent, Furn	Ea	12.00
Plastic Drum, Fluorescent, Oper	Ea	12.00
Sign, Type B, Temp, Prismatic, Furn	Sft	61.00
Sign, Type B, Temp, Prismatic, Oper	Sft	61.00
Sign, Type B, Temp, Prismatic, Special, Furn	Sft	16.00
Sign, Type B, Temp, Prismatic, Special, Oper	Sft	16.00
_ Temporary No Parking Sign	Ea	16.00
_ Slope Restoration	Syd	25.00
Gate Box, Adj, Case 1	Ea	2.00

Quantity	Sign Code	Description	Area (sft)	"Total Area (Sft)"
4.00	*D3-1	Street Name Sign	4.00	16.00
2.00	W20-1	Road Work Ahead Sign	9.00	18.00
2.00	W20-3	Road Closed Ahead	9.00	18.00
1.00	R11-4	Road Closed To Thru Traffic	12.50	13.00
TOTAL				65.0000

NOTES:

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CITY OF ANN ARBOR
PUBLIC SERVICES
301 EAST HURON STREET
ANN ARBOR MI 48107-0647
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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
STREET RESURFACING PROJECT - 2023
STRATFORD DR
SUBSET COVER SHEET

SCALE
DRAWING No.
2023-004-27



CITY OF ANN ARBOR ENGINEERING

PROJECT LOCATION: SUFFOLK ST

RFP# 23-17, FILE No. 2023-004

NOTES:

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Dr Structure, Rem	Ea	3.00
Sewer, Rem, Less than 24 inch	Ft	30.00
_Curb, Gutter, and Curb and Gutter, Any Type, Rem	Ft	305.00
_Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	Syd	45.77
_Grading, Driveway Approach	Syd	45.77
_Machine Grading, Special	Syd	4,760.35
_Undercutting, Type IIA	Cyd	1,428.11
Erosion Control, Inlet Protection, Fabric Drop	Ea	6.00
Sewer, CI IV, 12 inch, Tr Det B	Ft	30.00
Dr Structure, 24 inch dia	Ea	3.00
_Dr Structure Cover, Type K, Modified	Ea	3.00
_Dr Structure, Adj, Case 1, Modified	Ea	14.00
_Dr Structure, Temp Lowering, Modified	Ea	14.00
_Underdrain, Subgrade, 6 inch, Special	Ft	30.00
Cold Milling HMA Surface	Syd	4,760.35
HMA Surface, Rem	Syd	67.78
HMA, LVSP	Ton	1,047.28
Conc Pavt, Misc, Nonreinf, 8 inch	Syd	12.44
_Flowable Fill	Cyd	5.65
_Driveway, Nonreinf Conc, 6 inch, Modified	Syd	33.33
_Driveway, Nonreinf Conc, 8 inch, Modified	Syd	12.44
_Curb and Gutter, Conc, Barrier	Ft	60.00
_Driveway Opening, Conc, Det M, Modified	Ft	245.00
Pavt Mrkg, Thermopl, 12 inch, Crosswalk	Ft	80.00
Pavt Mrkg, Thermopl, 24 inch, Stop Bar	Ft	14.00
Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	Ea	1.00
Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	Ea	1.00
Plastic Drum, Fluorescent, Furn	Ea	43.00
Plastic Drum, Fluorescent, Oper	Ea	43.00
Sign, Type B, Temp, Prismatic, Furn	Sft	49.00
Sign, Type B, Temp, Prismatic, Oper	Sft	49.00
Sign, Type B, Temp, Prismatic, Special, Furn	Sft	16.00
Sign, Type B, Temp, Prismatic, Special, Oper	Sft	16.00
_Pedestrian Type II Barricade, Temp	Ea	2.00
_Temporary No Parking Sign	Ea	29.00
_Slope Restoration	Syd	67.78

Quantity	Sign Code	Description	Area (sft)	"Total Area (Sft)"
4.00	*D3-1	Street Name Sign	4.00	16.00
2.00	W20-1	Road Work Ahead Sign	9.00	18.00
2.00	W20-3	Road Closed Ahead	9.00	18.00
1.00	R11-4	Road Closed To Thru Traffic	12.50	13.00
		TOTAL		65.00

NOTES:

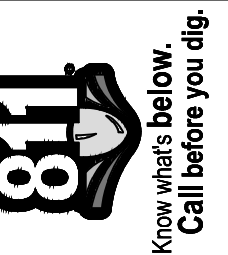
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CITY OF ANN ARBOR
PUBLIC SERVICES
301 EAST HURON STREET
ANN ARBOR, MI 48106-8647
ANN ARBOR 734-794-6410
WWW.A2GOV.ORG



CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
STREET RESURFACING PROJECT - 2023
SUFFOLK ST
SUBSET COVER SHEET

SCALE
DRAWING No.
2023-004-28



CITY OF ANN ARBOR ENGINEERING

PROJECT LOCATION: TUDOR DR

RFP# 23-17, FILE No. 2023-004

NOTES

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Dr Structure, Rem	Ea	6.00
Sewer, Rem, Less than 24 inch	Ft	60.00
_Curb, Gutter, and Curb and Gutter, Any Type, Rem	Ft	774.00
_Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	Syd	164.00
_Grading, Driveway Approach	Syd	133.33
_Grading, Sidewalk	Syd	22.22
_Grading, Sidewalk Ramp	Syd	8.33
_Machine Grading, Special	Syd	3,074.23
_Undercutting, Type IIA	Cyd	922.27
Erosion Control, Inlet Protection, Fabric Drop	Ea	11.00
Sewer, CI IV, 12 inch, Tr Det B	Ft	60.00
Dr Structure, 24 inch dia	Ea	6.00
_Dr Structure Cover, Type K, Modified	Ea	6.00
_Dr Structure Cover, Type Q, Modified	Ea	9.00
_Dr Structure, Adj, Case 1, Modified	Ea	15.00
_Dr Structure, Cleaning, Modified	Ea	10.00
_Underdrain, Subgrade, 6 inch, Special	Ft	60.00
Cold Milling HMA Surface	Syd	2,800.00
HMA Surface, Rem	Syd	164.89
HMA, LVSP	Ton	710.00
_Cold Milling for Concrete Curb and Gutter Reveal	Syd	316.33
_HMA, Wedging, 36A	Ton	3.00
_Flowable Fill	Cyd	12.00
_Curb and Gutter, Conc, Barrier	Ft	390.00
_Driveway Opening, Conc, Det M, Modified	Ft	384.00
Curb Ramp Opening, Conc	Ft	18.00
_Detectable Warning Surface, Modified	Ft	15.00

_Sidewalk Ramp, Conc, 6 inch, Modified	Sft	75.00
Pavt Mrkg, Thermopl, 12 inch, Crosswalk	Ft	224.00
Pavt Mrkg, Thermopl, 24 inch, Stop Bar	Ft	34.00
Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	Ea	6.00
Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	Ea	6.00
Lighted Arrow, Type C, Furn	Ea	1.00
Lighted Arrow, Type C, Oper	Ea	1.00
Plastic Drum, Fluorescent, Furn	Ea	40.00
Plastic Drum, Fluorescent, Oper	Ea	40.00
Sign, Portable, Changeable Message, Furn	Ea	2.00
Sign, Portable, Changeable Message, Oper	Ea	2.00
Sign, Type B, Temp, Prismatic, Furn	Sft	361.00
Sign, Type B, Temp, Prismatic, Oper	Sft	61.00
Sign, Type B, Temp, Prismatic, Special, Furn	Sft	24.00
Sign, Type B, Temp, Prismatic, Special, Oper	Sft	24.00
_Pedestrian Type II Barricade, Temp	Ea	3.00
_Temporary No Parking Sign	Ea	27.00
_Slope Restoration	Syd	110.00
Water Shutoff, Adj, Case 1	Ea	1.00
Gate Box, Adj, Case 1	Ea	1.00
_Private Utility Box, Adj, Case 1	Ea	1.00

Quantity	Sign Code	Description	Area (sft)	"Total Area (Sft)"
8.00	*D3-1	Street Name Sign	4.00	32.00
4.00	W20-1	Road Work Ahead Sign	9.00	36.00
4.00	W20-3	Road Closed Ahead	9.00	36.00
2.00	R11-3a	Road Closed Local Traffic Only	12.50	25.00
		TOTAL		129.00

NOTES

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CITY OF ANN ARBOR
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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
STREET RESURFACING PROJECT - 2023
TUDOR DR
SUBSET COVER SHEET

SCALE
DRAWING No.
2023-004-29

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CITY OF ANN ARBOR ENGINEERING

PROJECT LOCATION: VINEWOOD BLVD

RFP# 23-17, FILE No. 2023-004

NOTES

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Dr Structure, Rem	Ea	2.0000
Sewer, Rem, Less than 24 inch	Ft	20.0000
_Curb, Gutter, and Curb and Gutter, Any Type, Rem	Ft	61.0000
_Machine Grading, Special	Syd	1716.0000
_Undercutting, Type IIA	Cyd	514.8000
Erosion Control, Inlet Protection, Fabric Drop	Ea	4.0000
Sewer, CI IV, 12 inch, Tr Det B	Ft	20.0000
Dr Structure, 24 inch dia	Ea	2.0000
_Dr Structure Cover, Type K, Modified	Ea	4.0000
_Dr Structure, Adj, Case 1, Modified	Ea	8.0000
_Dr Structure, Temp Lowering, Modified	Ea	6.0000
_Underdrain, Subgrade, 6 inch, Special	Ft	20.0000
Cold Milling HMA Surface	Syd	1716.0000
HMA Surface, Rem	Syd	20.0000
HMA, LVSP	Ton	380.0000
_Flowable Fill	Cyd	2.0000
_Curb and Gutter, Conc, Barrier	Ft	40.0000
_Driveway Opening, Conc, Det M, Modified	Ft	21.0000
Pavt Mrkg, Thermopl, 24 inch, Stop Bar	Ft	13.0000
Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	Ea	2.0000
Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	Ea	2.0000
Plastic Drum, Fluorescent, Furn	Ea	20.0000
Plastic Drum, Fluorescent, Oper	Ea	20.0000
Sign, Type B, Temp, Prismatic, Furn	Sft	97.0000
Sign, Type B, Temp, Prismatic, Oper	Sft	97.0000
Sign, Type B, Temp, Prismatic, Special, Furn	Sft	32.0000
Sign, Type B, Temp, Prismatic, Special, Oper	Sft	32.0000
_Temporary No Parking Sign	Ea	16.0000
_Slope Restoration	Syd	15.0000
Gate Box, Adj, Case 1	Ea	1.0000

Quantity	Sign Code	Description	Area (sft)	"Total Area (Sft)"
8.0000	*D3-1	Street Name Sign	4.0000	32.0000
4.0000	W20-1	Road Work Ahead Sign	9.0000	36.0000
4.0000	W20-3	Road Closed Ahead	9.0000	36.0000
2.0000	R11-4	Road Closed To Thru Traffic	12.5000	25.0000
		TOTAL		129.0000

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 THIS 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 IMPROVEMENTS COVERED BY THESE PLANS SHALL BE PERFORMED IN ACCORDANCE WITH MICHIGAN DEPARTMENT OF TRANSPORTATION (MDOT) 2012 STANDARD SPECIFICATIONS FOR CONSTRUCTION, INCLUDING REFERENCED MDOT PUBLICATIONS, AND THE PROJECT CONTRACT DOCUMENTS.

PLACE APPLICABLE D3-1 SIGN IN ADVANCE OF WORK PERFORMED ON EACH STREET PRIOR TO WORK BEGINNING AS SHOWN IN THE LOCAL TRAFFIC CONTROL PLAN. VERIFY EXACT SIGN QUANTITY AND LOCATION WITH ENGINEER PRIOR TO ORDERING AND PLACING TRAFFIC DEVICES.

Know what's below.
Call before you dig.

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CITY OF ANN ARBOR
PUBLIC SERVICES
301 EAST HURON STREET
P.O. BOX 8647
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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

STREET RESURFACING PROJECT - 2023

VINEWOOD BLVD

SUBSET COVER SHEET

SCALE
DRAWING No.
2023-004-30

SHEET No.
30 OF 31



CITY OF ANN ARBOR ENGINEERING

PROJECT LOCATION: WINSTEAD BLVD

RFP# 23-17, FILE No. 2023-004

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.

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THE CONSTRUCTION COVERED BY THESE PLANS SHALL CONFORM TO THE 1994 EDITION OF THE CITY OF ANN ARBOR PUBLIC SERVICES DEPARTMENT STANDARD SPECIFICATIONS, ITS DETAILS, WHICH ARE INCLUDED BY REFERENCE, AND THIS PROJECT'S CONTRACT DOCUMENTS. THE OMISSION OF ANY CURRENT STANDARD DETAIL DOES NOT RELIEVE THE CONTRACTOR FROM THIS REQUIREMENT.

Dr Structure, Rem	Ea	9.00
Sewer, Rem, Less than 24 inch	Ft	90.00
_Curb, Gutter, and Curb and Gutter, Any Type, Rem	Ft	234.00
_Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	Syd	13.33
_Grading, Sidewalk Ramp	Syd	13.33
_Machine Grading, Special	Syd	3,506.05
_Undercutting, Type IIA	Cyd	1,051.82
Erosion Control, Silt Fence	Ft	20.00
Sewer, CI IV, 12 inch, Tr Det B	Ft	90.00
Dr Structure, 24 inch dia	Ea	9.00
_Dr Structure Cover, Type K, Modified	Ea	9.00
_Dr Structure, Adj, Case 1, Modified	Ea	7.00
_Underdrain, Subgrade, 6 inch, Special	Ft	90.00
Cold Milling HMA Surface	Syd	3,506.05
HMA Surface, Rem	Syd	52.00
HMA, LVSP	Ton	771.33
_Cold Milling for Concrete Curb and Gutter Reveal	Syd	6.00
_Flowable Fill	Cyd	4.33
_Curb and Gutter, Conc, Barrier	Ft	148.00
_Driveway Opening, Conc, Det M, Modified	Ft	61.00
Curb Ramp Opening, Conc	Ft	24.00
_Detectable Warning Surface, Modified	Ft	20.00
_Sidewalk Ramp, Conc, 6 inch, Modified	Sft	120.00
_Sidewalk, Conc, 6 inch, Modified	Sft	120.00
Pavt Mrkg, Thermopl, 12 inch, Crosswalk	Ft	90.00
Pavt Mrkg, Thermopl, 24 inch, Stop Bar	Ft	15.00
Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	Ea	14.00
Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	Ea	14.00
Plastic Drum, Fluorescent, Furn	Ea	41.00
Plastic Drum, Fluorescent, Oper	Ea	41.00
Sign, Type B, Temp, Prismatic, Furn	Sft	160.00
Sign, Type B, Temp, Prismatic, Oper	Sft	160.00
Sign, Type B, Temp, Prismatic, Special, Furn	Sft	32.00
Sign, Type B, Temp, Prismatic, Special, Oper	Sft	32.00
_Pedestrian Type II Barricade, Temp	Ea	8.00
_Temporary No Parking Sign	Ea	32.00
_Slope Restoration	Syd	60.00
Gate Box, Adj, Case 1	Ea	1.00
_Private Utility Box, Adj, Case 1	Ea	1.00

Quantity	Sign Code	Description	Area (sft)	"Total Area (Sft)"
18.00	*D3-1	Street Name Sign	4.00	72.00
9.00	W20-1	Road Work Ahead Sign	9.00	81.00
9.00	W20-3	Road Closed Ahead	9.00	81.00
7.00	R11-4	Road Closed To Thru Traffic	12.50	88.00
		TOTAL		322.00

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.

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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
STREET RESURFACING PROJECT - 2023
WINSTEAD BLVD
SUBSET COVER SHEET

SCALE
DRAWING No.
2023-004-31



CITY OF ANN ARBOR ENGINEERING

PROJECT LOCATION: EXMOOR RD

RFP# 23-17, FILE No. 2023-004

Dr Structure, Rem	Ea	9.00
Sewer, Rem, Less than 24 inch	Ft	90.00
_Curb, Gutter, and Curb and Gutter, Any Type, Rem	Ft	800.00
_Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	Syd	33.33
_Grading, Driveway Approach	Syd	33.33
_Machine Grading, Special	Syd	6,589.00
_Undercutting, Type IIA	Cyd	1,976.70
Erosion Control, Silt Fence	Ft	100.00
Erosion Control, Inlet Protection, Fabric Drop	Ea	20.00
Sewer, CI IV, 12 inch, Tr Det B	Ft	90.00
Dr Structure, 24 inch dia	Ea	9.00
_Dr Structure Cover, Type K, Modified	Ea	9.00
_Dr Structure, Adj, Case 1, Modified	Ea	15.00
_Dr Structure, Temp Lowering, Modified	Ea	16.00
_Underdrain, Subgrade, 6 inch, Special	Ft	90.00
Cold Milling HMA Surface	Syd	6,589.00
HMA Surface, Rem	Syd	100.00
HMA, 4EL	Ton	1,449.58
_Flowable Fill	Cyd	12.00
_Driveway, Nonreinf Conc, 6 inch, Modified	Syd	33.33
_Curb and Gutter, Conc, Barrier	Ft	440.00
_Driveway Opening, Conc, Det M, Modified	Ft	360.00
Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	Ea	3.00
Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	Ea	3.00
Plastic Drum, Fluorescent, Furn	Ea	50.00
Plastic Drum, Fluorescent, Oper	Ea	50.00
Sign, Type B, Temp, Prismatic, Furn	Sft	92.00
Sign, Type B, Temp, Prismatic, Oper	Sft	92.00
Sign, Type B, Temp, Prismatic, Special, Furn	Sft	12.00
Sign, Type B, Temp, Prismatic, Special, Oper	Sft	12.00
_Temporary No Parking Sign	Ea	65.00
_Slope Restoration	Syd	180.00
Water Shutoff, Adj, Case 1	Ea	1.00
Gate Box, Adj, Case 1	Ea	1.00

Quantity	Sign Code	Description	Area (sft)	"Total Area (Sft)"
6.00	*D3-1	Street Name Sign	4.00	24.00
3.00	W20-1	Road Work Ahead Sign	9.00	27.00
3.00	W20-3	Road Closed Ahead	9.00	27.00
2.00	R11-4	Road Closed To Thru Traffic	12.50	25.00
		TOTAL		103.00

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.

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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
STREET RESURFACING PROJECT - 2023
EXMOOR RD
SUBSET COVER SHEET

SCALE
DRAWING No.
2023-004-32

SHEET No.
32 OF 31



CITY OF ANN ARBOR ENGINEERING

PROJECT LOCATION: NEWCASTLE RD

RFP# 23-17, FILE No. 2023-004

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 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.

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Dr Structure, Rem	Ea	2.00
Sewer, Rem, Less than 24 inch	Ft	20.00
_Curb, Gutter, and Curb and Gutter, Any Type, Rem	Ft	302.00
_Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	Syd	27.22
_Grading, Driveway Approach	Syd	27.22
_Machine Grading, Special	Syd	2,276.78
_Undercutting, Type IIA	Cyd	683.03
Erosion Control, Inlet Protection, Fabric Drop	Ea	5.00
Sewer, CI IV, 12 inch, Tr Det B	Ft	20.00
Dr Structure, 24 inch dia	Ea	2.00
_Dr Structure Cover, Type K, Modified	Ea	4.00
_Dr Structure Cover, Type Q, Modified	Ea	7.00
_Dr Structure, Adj, Case 1, Modified	Ea	9.00
_Dr Structure, Temp Lowering, Modified	Ea	9.00
_Underdrain, Subgrade, 6 inch, Special	Ft	20.00
Cold Milling HMA Surface	Syd	2,276.78
HMA Surface, Rem	Syd	67.11
HMA, 4EL	Ton	501.00
_Flowable Fill	Cyd	6.00
_Driveway, Nonreinf Conc, 6 inch, Modified	Syd	27.22
_Curb and Gutter, Conc, Barrier	Ft	168.00
_Driveway Opening, Conc, Det M, Modified	Ft	134.00
Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	Ea	1.00
Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	Ea	1.00
Plastic Drum, Fluorescent, Furn	Ea	40.00
Plastic Drum, Fluorescent, Oper	Ea	40.00
Sign, Type B, Temp, Prismatic, Furn	Sft	49.00
Sign, Type B, Temp, Prismatic, Oper	Sft	49.00
Sign, Type B, Temp, Prismatic, Special, Furn	Sft	16.00
Sign, Type B, Temp, Prismatic, Special, Oper	Sft	16.00
_Temporary No Parking Sign	Ea	18.00
_Slope Restoration	Syd	80.44
Gate Box, Adj, Case 1	Ea	2.00

Quantity	Sign Code	Description	Area (sft)	"Total Area (Sft)"
4.00	*D3-1	Street Name Sign	4.00	16.00
2.00	W20-1	Road Work Ahead Sign	9.00	18.00
2.00	W20-3	Road Closed Ahead	9.00	18.00
1.00	R11-4	Road Closed To Thru Traffic	12.50	13.00
		TOTAL		65.00

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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
STREET RESURFACING PROJECT - 2023
NEWCASTLE RD
SUBSET COVER SHEET

SCALE
DRAWING No.
2023-004-33

SHEET No.
33 OF 31



CITY OF ANN ARBOR ENGINEERING

PROJECT LOCATION: MILLS CT

RFP# 23-17, FILE No. 2023-004

Erosion Control, Inlet Protection, Fabric Drop	Ea	2.00
Cold Milling HMA Surface	Syd	1,549.78
HMA, 4EL	Ton	175.00
Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	Ea	1.00
Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	Ea	1.00
Plastic Drum, Fluorescent, Furn	Ea	13.00
Plastic Drum, Fluorescent, Oper	Ea	13.00
Sign, Type B, Temp, Prismatic, Furn	Sft	31.00
Sign, Type B, Temp, Prismatic, Oper	Sft	31.00
Sign, Type B, Temp, Prismatic, Special, Furn	Sft	8.00
Sign, Type B, Temp, Prismatic, Special, Oper	Sft	8.00
HMA Surface, Around Structure Cover, Rem	Ea	3.00

Quantity	Sign Code	Description	Area (sft)	"Total Area (Sft)"
4.00	*D3-1	Street Name Sign	4.00	16.00
2.00	W20-1	Road Work Ahead Sign	9.00	18.00
2.00	W20-3	Road Closed Ahead	9.00	18.00
1.00	R11-4	Road Closed To Thru Traffic	12.50	13.00
			TOTAL	65.00

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.

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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
STREET RESURFACING PROJECT - 2023
MILLS CT
SUBSET COVER SHEET

SCALE
DRAWING No.
2023-004-34

SHEET No.
34 OF 31



CITY OF ANN ARBOR ENGINEERING

PROJECT LOCATION: STONEHAVEN

RFP# 23-17, FILE No. 2023-004

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.

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Dr Structure, Rem	Ea	1.00
Sewer, Rem, Less than 24 inch	Ft	10.00
_Curb, Gutter, and Curb and Gutter, Any Type, Rem	Ft	450.00
_Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	Syd	6.00
_Grading, Driveway Approach	Syd	6.00
_Machine Grading, Special	Syd	2,101.56
_Undercutting, Type IIA	Cyd	630.47
Erosion Control, Silt Fence	Ft	100.00
Erosion Control, Inlet Protection, Fabric Drop	Ea	4.00
Sewer, CI IV, 12 inch, Tr Det B	Ft	10.00
Dr Structure, 24 inch dia	Ea	1.00
_Dr Structure Cover, Type K, Modified	Ea	3.00
_Dr Structure Cover, Type Q, Modified	Ea	2.00
_Dr Structure, Adj, Case 1, Modified	Ea	6.00
_Dr Structure, Temp Lowering, Modified	Ea	4.00
_Underdrain, Subgrade, 6 inch, Special	Ft	10.00
Cold Milling HMA Surface	Syd	2,101.56
HMA Surface, Rem	Syd	100.00
HMA, 4EL	Ton	462.00
_Flowable Fill	Cyd	8.33
_Driveway, Nonreinf Conc, 6 inch, Modified	Syd	6.00
_Curb and Gutter, Conc, Barrier	Ft	315.00
_Curb and Gutter, Conc, Mountable	Ft	20.00
_Driveway Opening, Conc, Det M, Modified	Ft	115.00
Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	Ea	1.00
Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	Ea	1.00
Plastic Drum, Fluorescent, Furn	Ea	40.00
Plastic Drum, Fluorescent, Oper	Ea	40.00
Sign, Type B, Temp, Prismatic, Furn	Sft	49.00
Sign, Type B, Temp, Prismatic, Oper	Sft	49.00
Sign, Type B, Temp, Prismatic, Special, Furn	Sft	16.00
Sign, Type B, Temp, Prismatic, Special, Oper	Sft	16.00
_Temporary No Parking Sign	Ea	20.00
_Slope Restoration	Syd	100.44

Quantity	Sign Code	Description	Area (sft)	"Total Area (Sft)"
4.00	*D3-1	Street Name Sign	4.00	16.00
2.00	W20-1	Road Work Ahead Sign	9.00	18.00
2.00	W20-3	Road Closed Ahead	9.00	18.00
1.00	R11-4	Road Closed To Thru Traffic	12.50	13.00
		TOTAL		65.00

CITY OF ANN ARBOR
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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
STREET RESURFACING PROJECT - 2023
STONEHAVEN
SUBSET COVER SHEET

SCALE _____
DRAWING No. **2023-004-35**

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CITY OF ANN ARBOR ENGINEERING

PROJECT LOCATION: EDINBOROUGH RD

RFP# 23-17, FILE No. 2023-004

Dr Structure, Rem	Ea	3.00
Sewer, Rem, Less than 24 inch	Ft	30.00
_Curb, Gutter, and Curb and Gutter, Any Type, Rem	Ft	120.00
Erosion Control, Inlet Protection, Fabric Drop	Ea	5.00
Sewer, CI IV, 12 inch, Tr Det B	Ft	30.00
_Dr Structure Cover, Type K, Modified	Ea	3.00
_Structure, Reconstruct	Ea	1.00
Cold Milling HMA Surface	Syd	2,330.00
HMA Surface, Rem	Syd	14.00
HMA, LVSP	Ton	193.00
_Flowable Fill	Cyd	3.00
_Curb and Gutter, Conc, Barrier	Ft	90.00
_Driveway Opening, Conc, Det M, Modified	Ft	30.00
Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	Ea	2.00
Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	Ea	2.00
Plastic Drum, Fluorescent, Furn	Ea	20.00
Plastic Drum, Fluorescent, Oper	Ea	20.00
Sign, Type B, Temp, Prismatic, Furn	Sft	97.00
Sign, Type B, Temp, Prismatic, Oper	Sft	97.00
Sign, Type B, Temp, Prismatic, Special, Furn	Sft	16.00
Sign, Type B, Temp, Prismatic, Special, Oper	Sft	16.00
_Temporary No Parking Sign	Ea	19.00
_Slope Restoration	Syd	30.00
_HMA Surface, Around Structure Cover, Rem	Ea	4.00

Quantity	Sign Code	Description	Area (sft)	"Total Area (Sft)"
4.00	*D3-1	Street Name Sign	4.00	16.00
4.00	W20-1	Road Work Ahead Sign	9.00	36.00
4.00	W20-3	Road Closed Ahead	9.00	36.00
4.00	R11-3a	Road Closed Local Traffic Only	12.50	50.00
			TOTAL	138.00

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 1994 EDITION OF THE CITY OF ANN ARBOR PUBLIC SERVICES DEPARTMENT STANDARD SPECIFICATIONS, ITS DETAILS, WHICH ARE INCLUDED BY REFERENCE, AND THIS PROJECT'S CONTRACT DOCUMENTS. THE OMISSION OF ANY CURRENT STANDARD DETAIL DOES NOT RELIEVE THE CONTRACTOR FROM THIS REQUIREMENT.



REV.	DESCRIPTION	DATE	AG/CE	JA	CHECKED
00		04/26/2023			

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
STREET RESURFACING PROJECT - 2023
EDINBOROUGH RD
2023004 EDINBOROUGH RD COVER SHEET - SUBSET COVER SHEET

DRAWING No.
2023-004