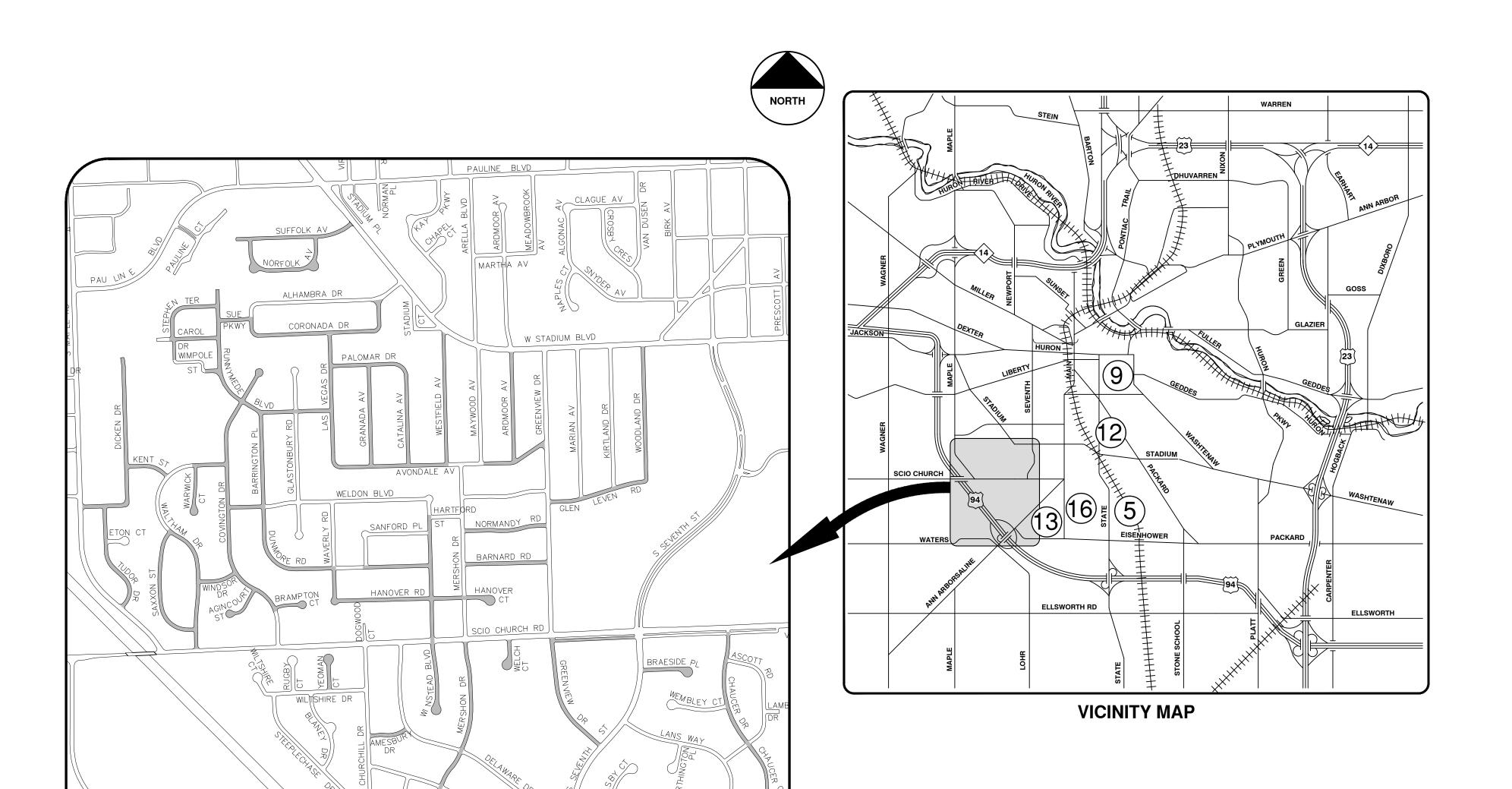


CITY OF ANN ARBOR ENGINEERING

STREET RESURFACING/RESTORATION PROJECT - 2020

ITB No. BID NO FILE No. 2020-004



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PREPARED UNDER THE SUPERVISION OF

DAVID ARTHUR DYKMAN, P.E. - MI LICENSE No. 52912

03 / 05 / 2020



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. CITY ORDINANCE CHAPTER 63, CITY OF ANN ARBOR STANDARDS DIVISION VII, 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
- 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, WITHIN FOUR (4) HOURS OF BEING SO ORDERED.
- 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 DUST PALLATIVE AS REQUIRED.
- 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:

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:**

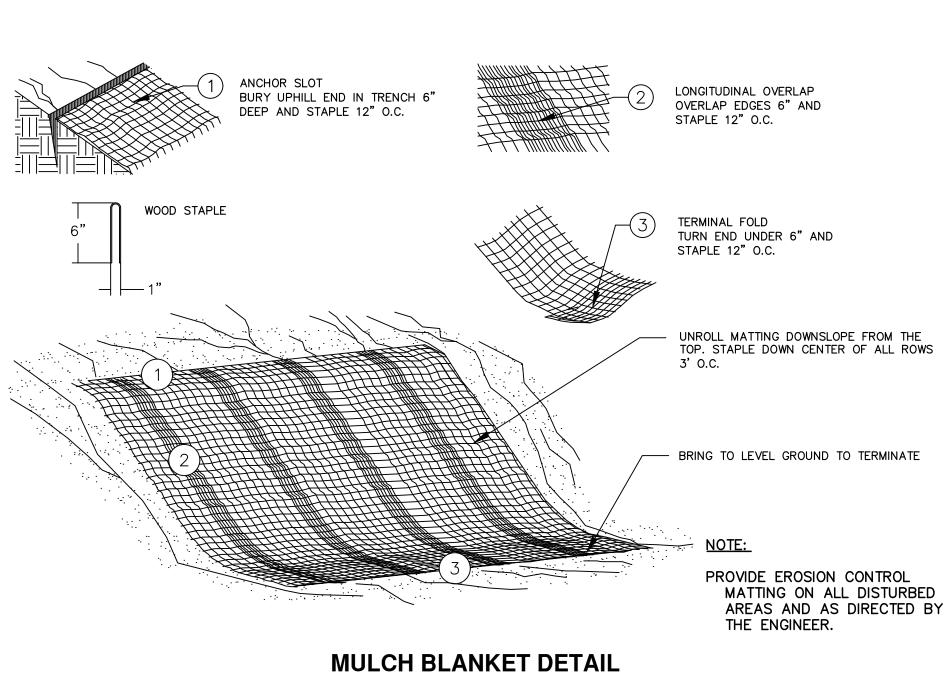
- 1.1. INSTALL SILT FENCE, TREE PROTECTION FENCING, MUD MATS, INLET FILTERS ON EXISTING DRAINAGE FEATURES, AND ALL OTHER TEMPORARY SOIL EROSION CONTROLS, PRIOR TO ANY CLEARING OR EARTH MOVING OPERATION.
- 1.2. STRIP AND STOCKPILE TOPSOIL. STABILIZE STOCKPILE AS REQUIRED.
- 1.3. INSTALL WATER MAINS, STORM 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 BIORETENTION GRADING AND 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

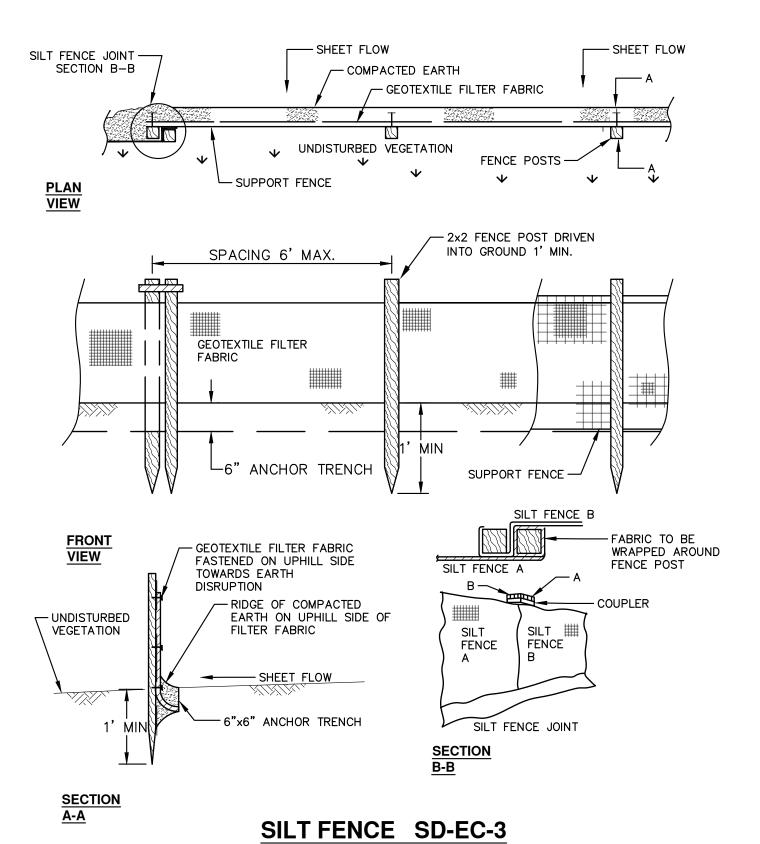
NOTE: THIS SEQUENCE IS FOR INFORMATION ONLY. IT IS INTENDED TO SHOW THE SEQUENCE OF CONSTRUCTION WITH RESPECT TO THE SOIL EROSION AND SEDIMENTATION CONTROL MEASURES. THE CONTRACTOR IS RESPONSIBLE FOR SUBMITTING THEIR OWN DETAILED CONSTRUCTION SEQUENCE AND SCHEDULE TO THE ENGINEER FOR REVIEW, COMMENT,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



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





ANN ARBOR

SHEET No.

GENERAL NOTES:

- 1. 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.
- 2. The location and depth of all existing utilities and service leads are to be field verified by the Contractor prior to construction.
- 3. 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.
- 4. The location of material stock piles and on—site staging areas shall be approved by the Engineer.
- 5. 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.
- 6. All excavation required to construct sidewalk and sidewalk ramps shall be included in the contract pay item "Grading, Sidewalk and Sidewalk Ramps".
- 7. 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.
- 8. Where existing drainage or utility structures, whether shown or not on the plans, are designated or directed by the Engineer to receive new castings (cover and frame) the existing castings shall be neatly stacked on-site in a single location so that City of Ann Arbor forces can retrieve them at a later date. The Contractor shall assist City forces by loading them into City trucks. All costs associated with storing, stockpiling, and loading castings into City vehicles shall be included in the contract pay item "Dr Structure Cover, Type_, Modified".
- 9. Payment for drainage structure sumps where specified shall be included in the payment for the various drainage structures sizes and/or types.
- 10. 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.

- 11. 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.
- 12.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.
- 13. 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 3.25' below the top of pavement.
- 14. 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."
- 15. All curb, sidewalk, driveway approach removals shall be approved by the Engineer before the work is performed.
- 16. Place 4" (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."
- 17. Place 6" (minimum) Granular Material Class II compacted to 95% of its max. dry density under concrete driveway approaches, and 6" (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".
- 18. 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 REGINNING OF CONSTRUCTION

PERMIT	ISSUING AUTHORITY
LANE CLOSURE 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

BELLEVILLE, MI 48111

8001 HAGGERTY ROAD

27800 FRANKLIN ROAD

SOUTHFIELD, MI 48034

550 S. MAPLE ROAD

ANN ARBOR, MI 48103

2800 N. GLENFILLE ROAD

RICHARDSON, TX 75082

BELLEVILLE, MI 48111

WESTERN WAYNE SERVICE CENTER

DTE ENERGY

COMCAST

CABLE

PHONE

FIBER OPTIC

STREET LIGHTING

				02/06/30/20	US/US/ZUZU
CONTACT INFORMA	TION				
PUBLIC UTILITIES	OWNER	CONTACT			
WATER					
SANITARY					DESCRIPTION
STORM	CITY OF ANN ARBOR PUBLIC WORKS W.R. WHEELER SERVICE CENTER 4251 STONE SCHOOL ROAD	(734) 794–6350			DESC
FORESTRY	ANN ARBOR, MI 48108				_
SIGNS SIGNALS		(774) 704 6764			BID SE
STREET LIGHTS		(734) 794–6361			20 2
PRIVATE UTILITIES	OWNER	CONTACT			٥
GAS	DTE ENERGY 3150 E. MICHIGAN AVE, YPSILANTI TOWNSHIP, MI 48198	ROBERT CZAPIEWSKI (734) 544-7818	ARBOR VICES STREET	47 107-8647 0	org
ELECTRIC	DTE ENERGY WESTERN WAYNE SERVICE CENTER 8001 HAGGERTY ROAD	ANTHONY IGNASIAK (734) 397-4447	OF ANN A	7.0. BOX 86. RBOR, MI 48 734-794-641	ww.a2gov.c

BRANDON FARON

(734) 397-4017

RON SUTHERLAND

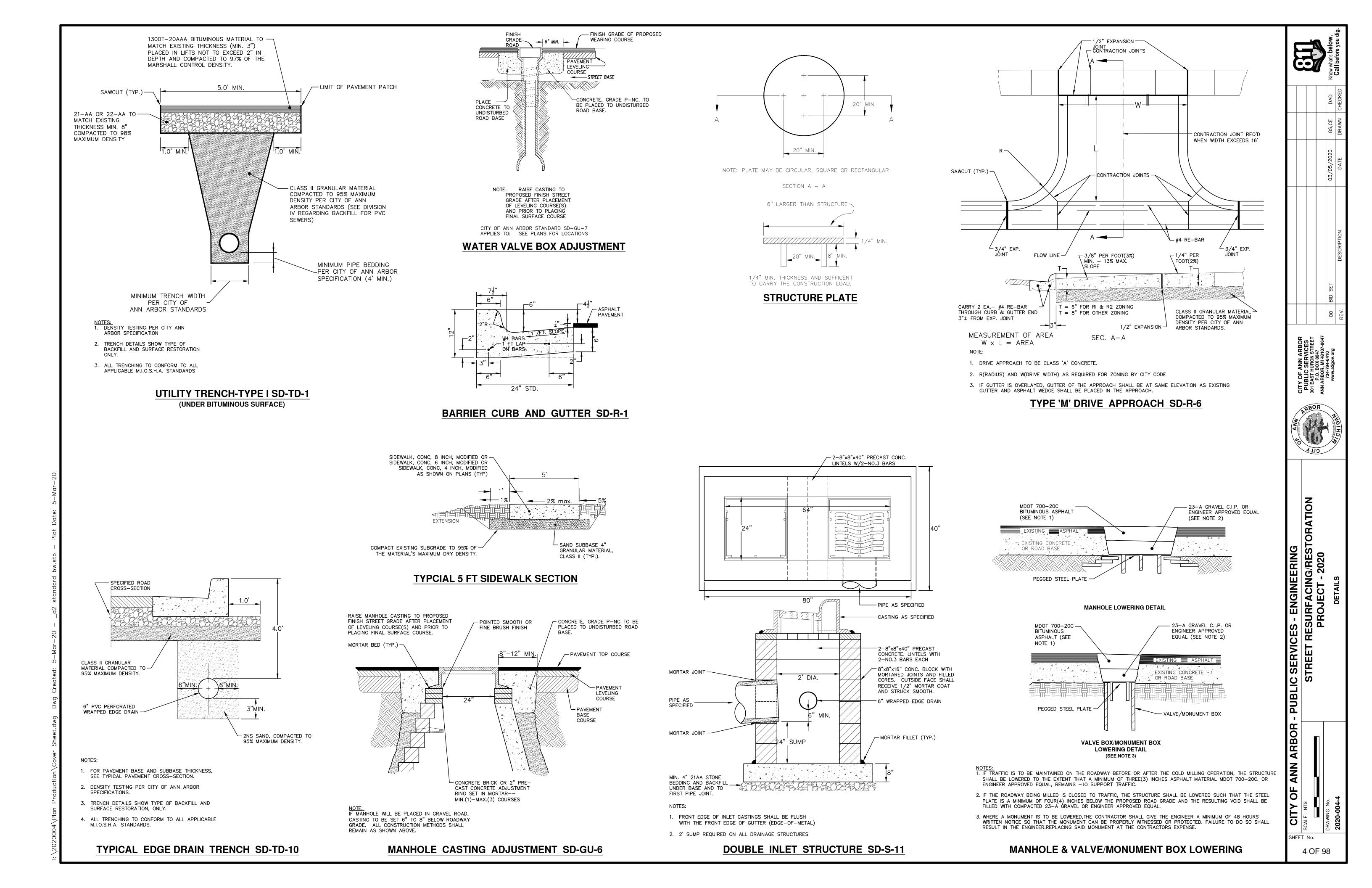
(313) 999-8300

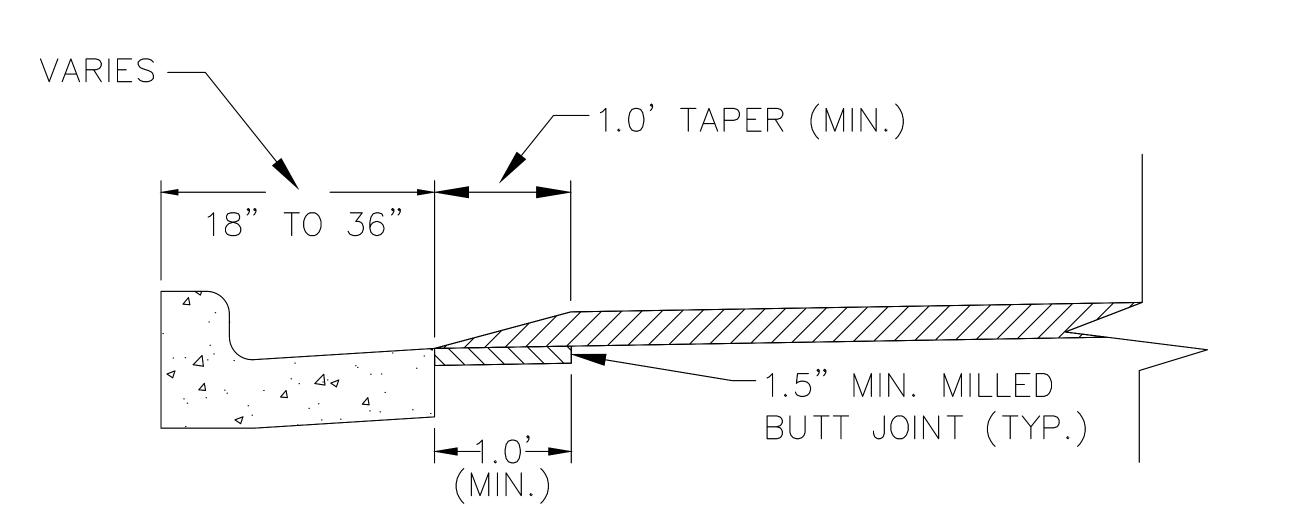
(734) 996-2135

DEAN BOYERS

(972) 729-6016

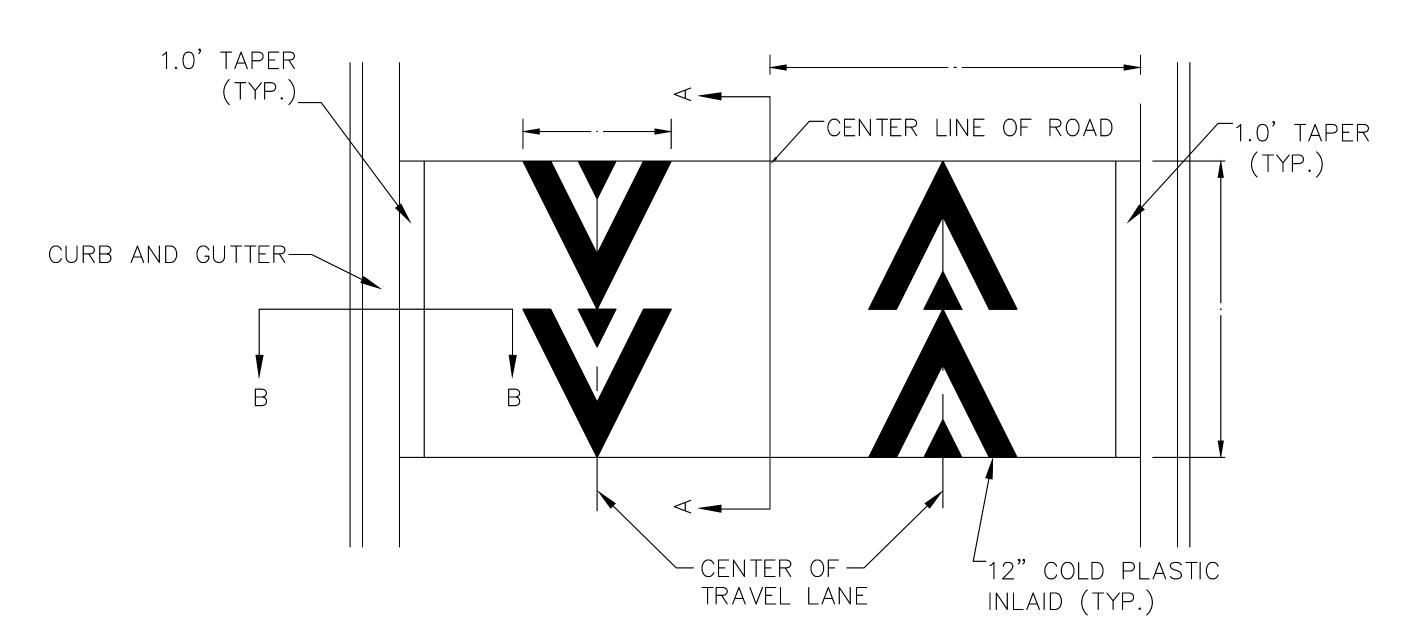
OF ANN ARBOR



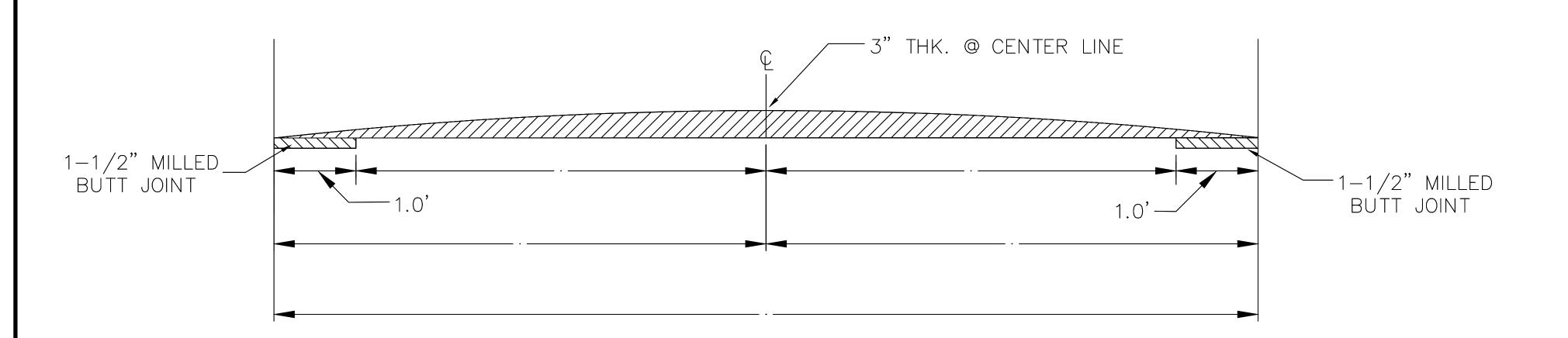


SPEED HUMP CROSS SECTION

SECTION B-B



PAVEMENT MARKING DETAIL



SPEED HUMP CROSS SECTION

SECTION A-A

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.

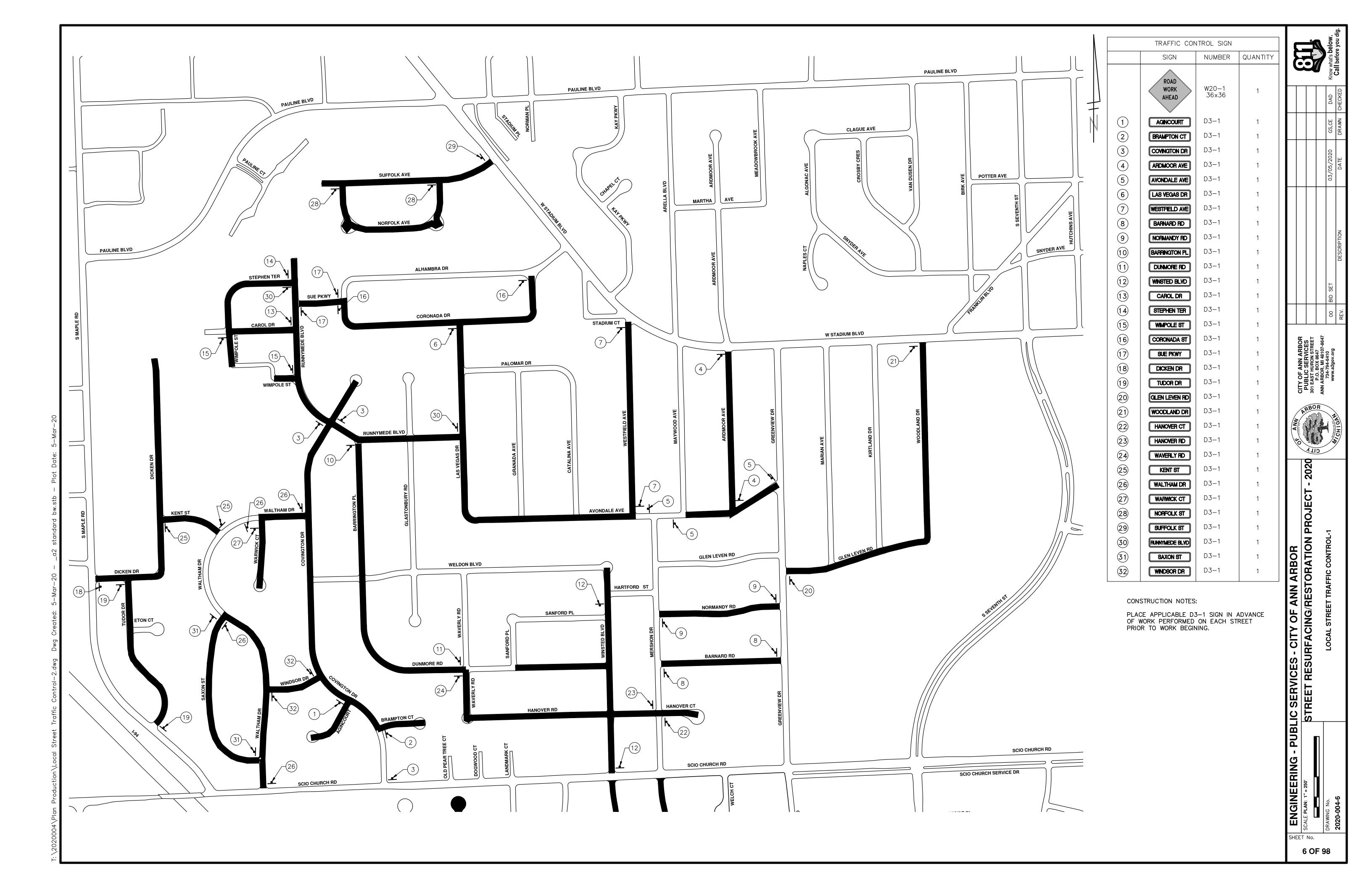
CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

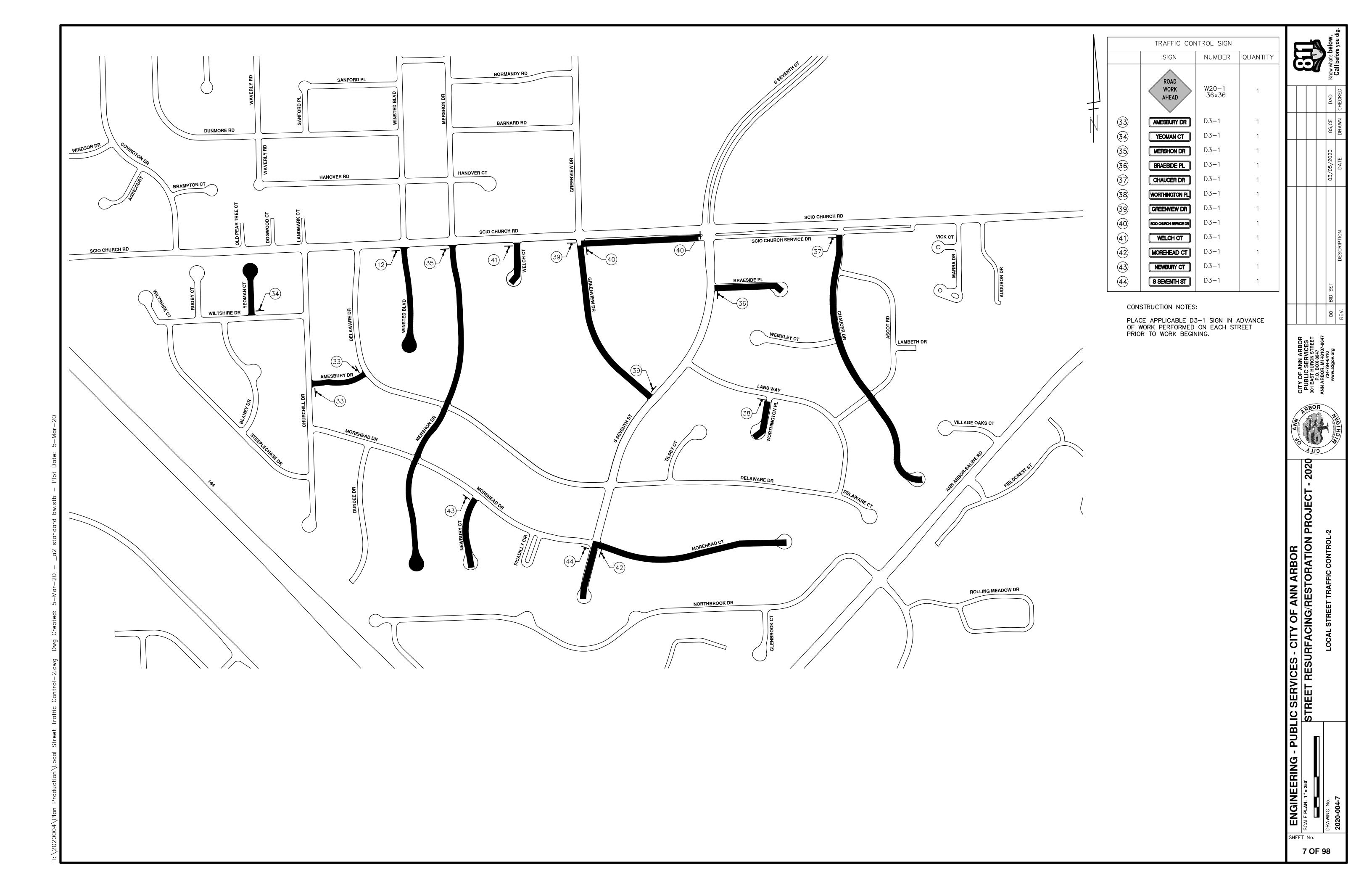
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STREET RESURFACING/REST

PAWMING NO.

PAWMING NO.







CITY OF ANN ARBOR ENGINEERING

PROJECT LOCATION: BOARDWALK DRIVE

ITB No. BID NO FILE No. 2020-004

	QUANTITIES		
Item Code	Item Description	Unit	Quantity
2047001	_Curb, Gutter, and Curb and Gutter, Any Type, Rem	Ft	1,783.000
2047011	_Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	Syd	399.570
2057011	_Grading, Driveway Approach	Syd	517.370
2057011	_Grading, Sidewalk	Syd	313.251
2057011	_Grading, Sidewalk Ramp	Syd	34.138
2057011	_Machine Grading, Special	Syd	10,955.110
2057021	_Subgrade Undercutting, Type IIA	Cyd	1,038.641
2080020	Erosion Control, Inlet Protection, Fabric Drop	Ea	19.000
4037050	_Dr Structure Cover, Type B, Modified	Ea	3.000
4037050	_Dr Structure Cover, Type K, Modified	Ea	5.000
4037050	_Dr Structure, Adj, Case 1, Modified	Ea	24.000
4037050	_Dr Structure, Cleaning, Modified	Ea	5.000
4037050		Ea	11.000
4037050	Structure, Reconstruct	Ea	1.000
4047001		Ft	20.000
5010002	Cold Milling HMA Surface	Syd	10,956.000
5010005	HMA Surface, Rem	Syd	517.35
5010025	Hand Patching	Ton	60.000
5010050	HMA, 4E1	Ton	1,270.000
5010056	HMA, 5E1	Ton	1,270.000
5010061	HMA Approach	Ton	50.000
6027021	Flowable Fill	Cyd	49.528
8017011		Syd	258.670
8027001	Curb and Gutter, Conc, Barrier	Ft	1,020.000
8027001	Driveway Opening, Conc, Det M, Modified	Ft	738.000
8030030	Curb Ramp Opening, Conc	Ft	70.000
8030030	Detectable Warning Surface, Modified	Ft	50.000
8037001	Ţ v v v v v v v v v v v v v v v v v v v		
	_Sidewalk Ramp, Conc, 6 inch, Modified	Sft	307.240
8037010	_Sidewalk, Conc, 4 inch, Modified	Sft	2,527.260
8037010	_Sidewalk, Conc, 6 inch, Modified	Sft	162.000
8037010	_Sidewalk, Conc, 8 inch, Modified	Sft	130.000
8110195	Pavt Mrkg, Thermopl, 4 inch, White	Ft	358.000
8110196	Pavt Mrkg, Thermopl, 4 inch, Yellow	Ft	2,556.000
8110197	Pavt Mrkg, Thermopl, 6 inch, Crosswalk	Ft	481.000
8110218	Pavt Mrkg, Thermopl, 24 inch, Stop Bar	Ft	48.000
8117050	_Pavt Mrkg, Thermopl, Lt Turn Arrow Sym	Ea	2.000
8117050	_Pavt Mrkg, Thermopl, Rt Turn Arrow Sym	Ea	2.000
8120012	Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	Ea	6.000
8120013	Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	Ea	6.000
8120250	Plastic Drum, High Intensity, Furn	Ea	70.000
8120251	Plastic Drum, High Intensity, Oper	Ea	70.000
8120310	Sign Cover	Ea	4.000
8120331	Sign, Portable, Changeable Message, Oper	Ea	2.000
8120350	Sign, Type B, Temp, Prismatic, Furn	Sft	280.000
8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	280.000
8120352	Sign, Type B, Temp, Prismatic, Special, Furn	Sft	88.000
8120353	Sign, Type B, Temp, Prismatic, Special, Oper	Sft	88.000
8127050	_Pedestrian Type II Barricade, Temp	Ea	6.000
8127050	_Temporary No Parking Sign	Ea	24.000
8167011	_Slope Restoration	Syd	890.550
8217050	_Monument Box, Adj	Ea	2.000

	QUANTITIES Sign, Type B, Temp, Prismatic & *Sign, Type B, Temp, Prismatic, Special				
Quantity	Sign Code	Description	Area (sft)	Total Area (Sft)	
22.0	*D3-1	Street Name Sign	4.000	88.000	
5.0	W20-1	Road Work Ahead Sign	9.000	45.000	
5.0	W20-2	Detour Ahead	9.000	45.000	
4.0	W20-3	Road Closed Ahead	9.000	36.000	
3.0	M4-9S	Arrow 1 Detour	5.000	15.000	
2.0	M4-9R	Right Arrow Detour	5.000	10.000	
2.0	M4-9L	Left Arrow Detour	6.000	12.000	
1.0	M4-10L	Detour / Left	6.000	6.000	
1.0	R3-1	No Right Turn	4.000	4.000	
1.0	R3-2	No Left Turn	4.000	4.000	
3.0	R6-1R	One Way / Right	3.000	9.000	
3.0	R6-1L	One Way / Left	3.000	9.000	
1.0	R11-2	Road Closed	10.000	10.000	
6.0	R11-3a	Road Closed Local Traffic Only	12.500	75.000	
			TOTAL	368.000	

CONSTRUCTION METHOD AND SEQUENCING

- THE WORK TO BE COMPLETED ON THIS STREET SHALL INCLUDE, BUT NOT BE LIMITED TO THE FOLLOWING ITEMS. THE ORDER OF CONSTRUCTION SHALL BE AS GIVEN UNLESS OTHERWISE AUTHORIZED OR DIRECTED BY THE ENGINEER
- 2. IMPLEMENT TRAFFIC MAINTENANCE, AND SOIL EROSION CONTROLS IN ACCORDANCE WITH THE PLANS AND AS DIRECTED BY THE ENGINEER.
- INSTALL ANY PROPOSED STORM SEWER, AND UNDERDRAIN AS SHOWN ON THE PLANS, AND AS DIRECTED BY THE ENGINEER.
- 4. LOWER ALL STRUCTURE COVERS, INCLUDING VALVE AND MONUMENT BOXES
- 5. PERFORM ALL CONCRETE WORK, INCLUDING RESTORATION, IN ACCORDANCE WITH THE PLANS, AND AS DIRECTED BY THE ENGINEER.
- 6. MILL 3 INCHES OF BITUMINOUS MATERIAL FROM EXISTING ROADWAY. THIS MAY INCLUDE GRANULAR ROAD BASE MATERIAL. DEPTH TO BE DETERMINED BY THE ENGINEER. PROOF ROLL WITH FULL TRUCK
- 7. PERFORM UNDERCUTS AND/OR BASE REPAIRS AS DIRECTED BY THE ENGINEER
- 8. GRADE, SHAPE, AND RE—COMPACT THE EXISTING ROAD BASE AS REQUIRED, AND AS DIRECTED BY THE ENGINEER.
- 9. PAVE 2 INCHES OF THE BITUMINOUS MIX AS SPECIFIED OR DIRECTED, AS THE LEVELING COURSE, IN ONE LIFT.
- 10. ADJUST ALL STRUCTURE COVERS, MONUMENT BOXES, AND VALVE BOXES TO THEIR FINISHED ELEVATIONS.
- 11. PAVE 1 INCH OF THE BITUMINOUS MIX AS SPECIFIED OR DIRECTED, AS THE WEARING COURSE, IN ONE LIFT.
- 12. COMPLETE ALL PAVEMENT MARKINGS IN ACCORDANCE WITH THE PLANS, AND AS DIRECTED BY THE ENGINEER.
- 13. COMPLETE ALL MISCELLANEOUS CONSTRUCTION INCLUDING ALL CLEAN-UP AND FINAL RESTORATION.
- 14. REMOVE ALL TRAFFIC CONTROL DEVICES. REMOVE MISS DIG FLAGS.

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 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.

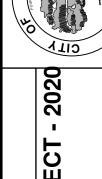
Know what's below.

Call before you dig.

		DAD	DRAWN CHECKED
		GS,CE	DRAWN
		03/02/5050	DATE
		BID SET	DESCRIPTION

CITY OF ANN ARBOR PUBLIC SERVICES 301 EAST HURON STREET P.O. BOX 8647 ANN ARBOR, MI 48107-8647 734-794-6410 www.a2gov.org





A ARBOR TORATION PROJEC

FACING/RES

BOARDWAL

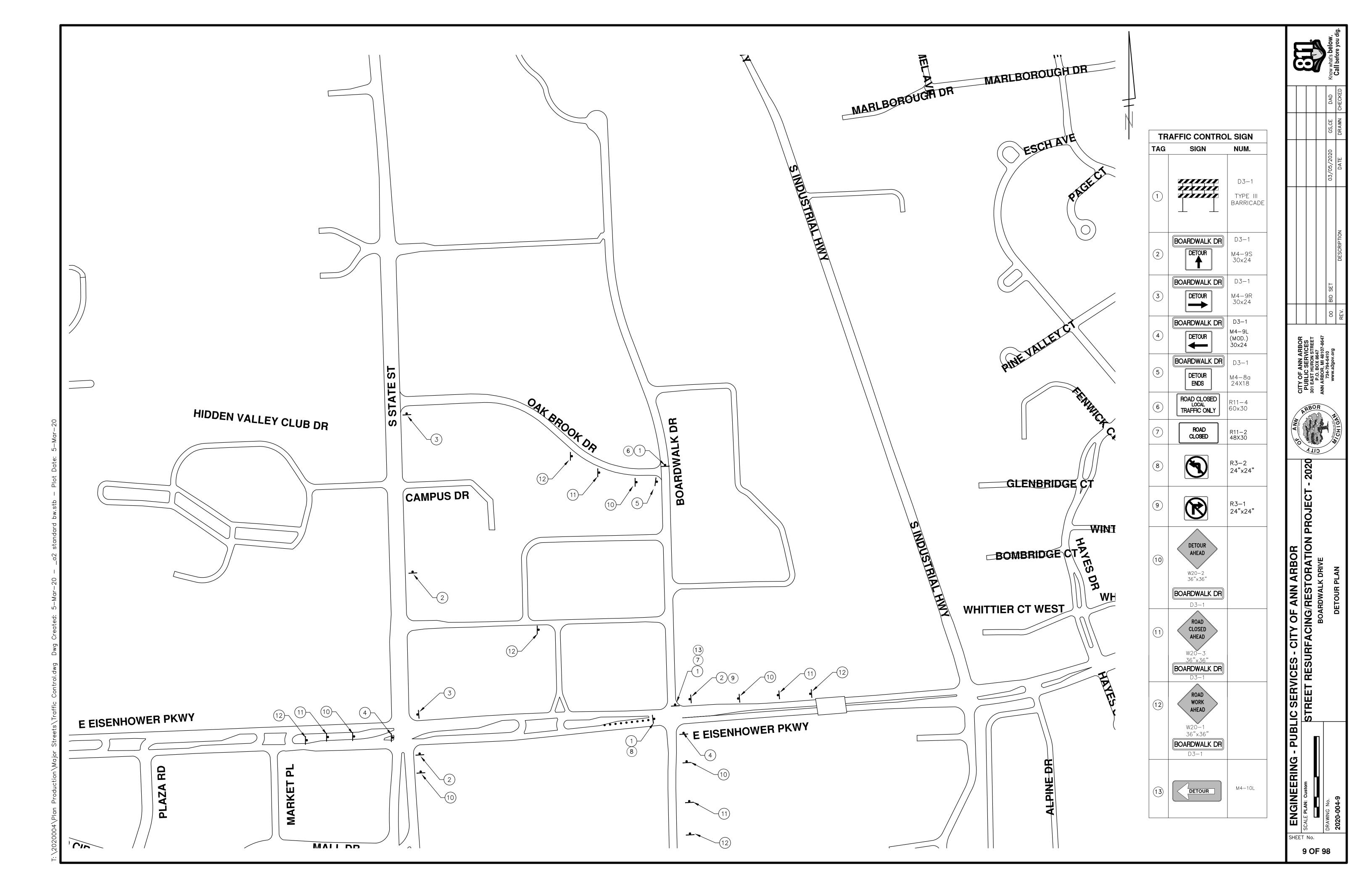
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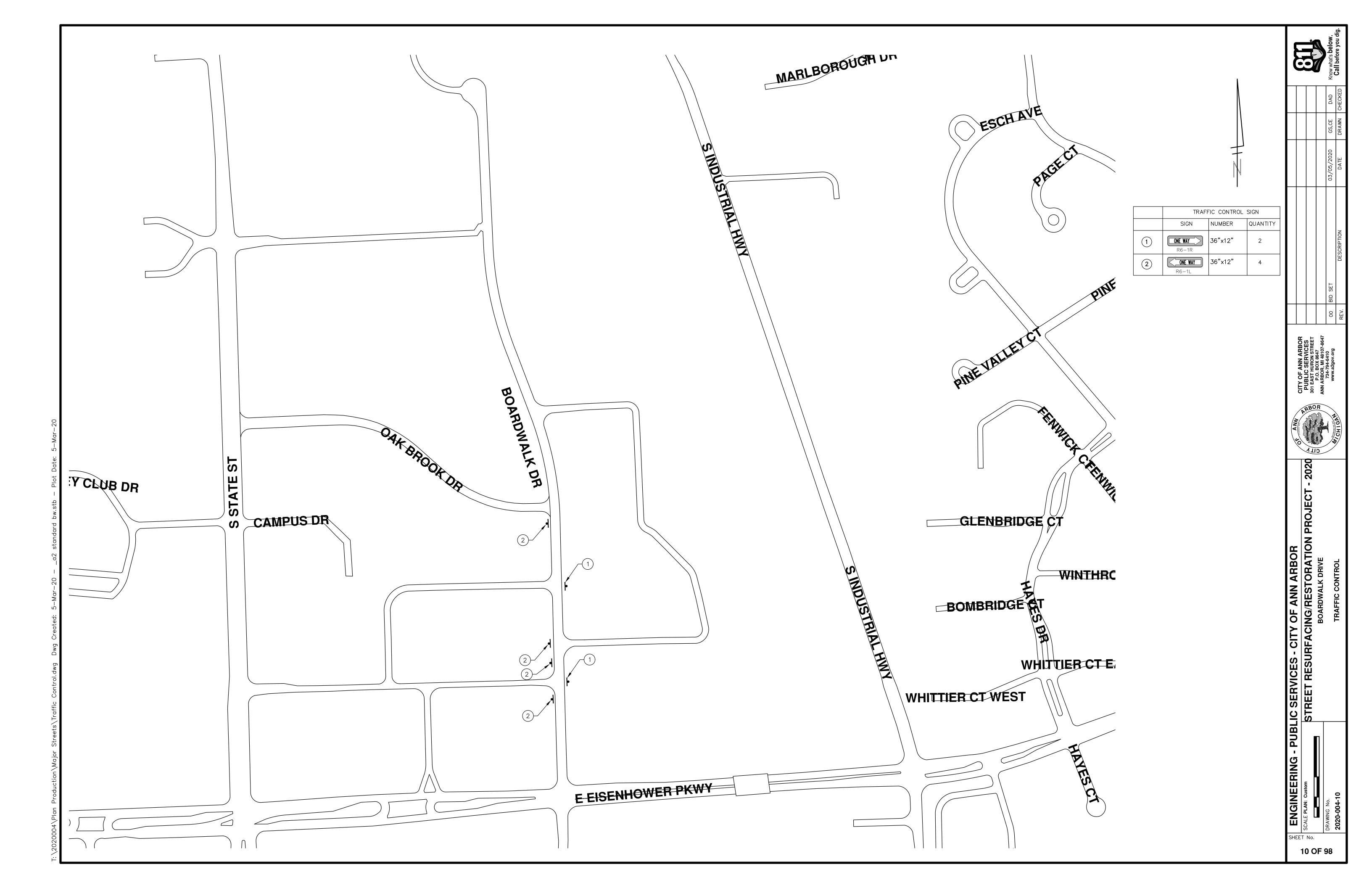
RING - PUBLIC SEF STREE

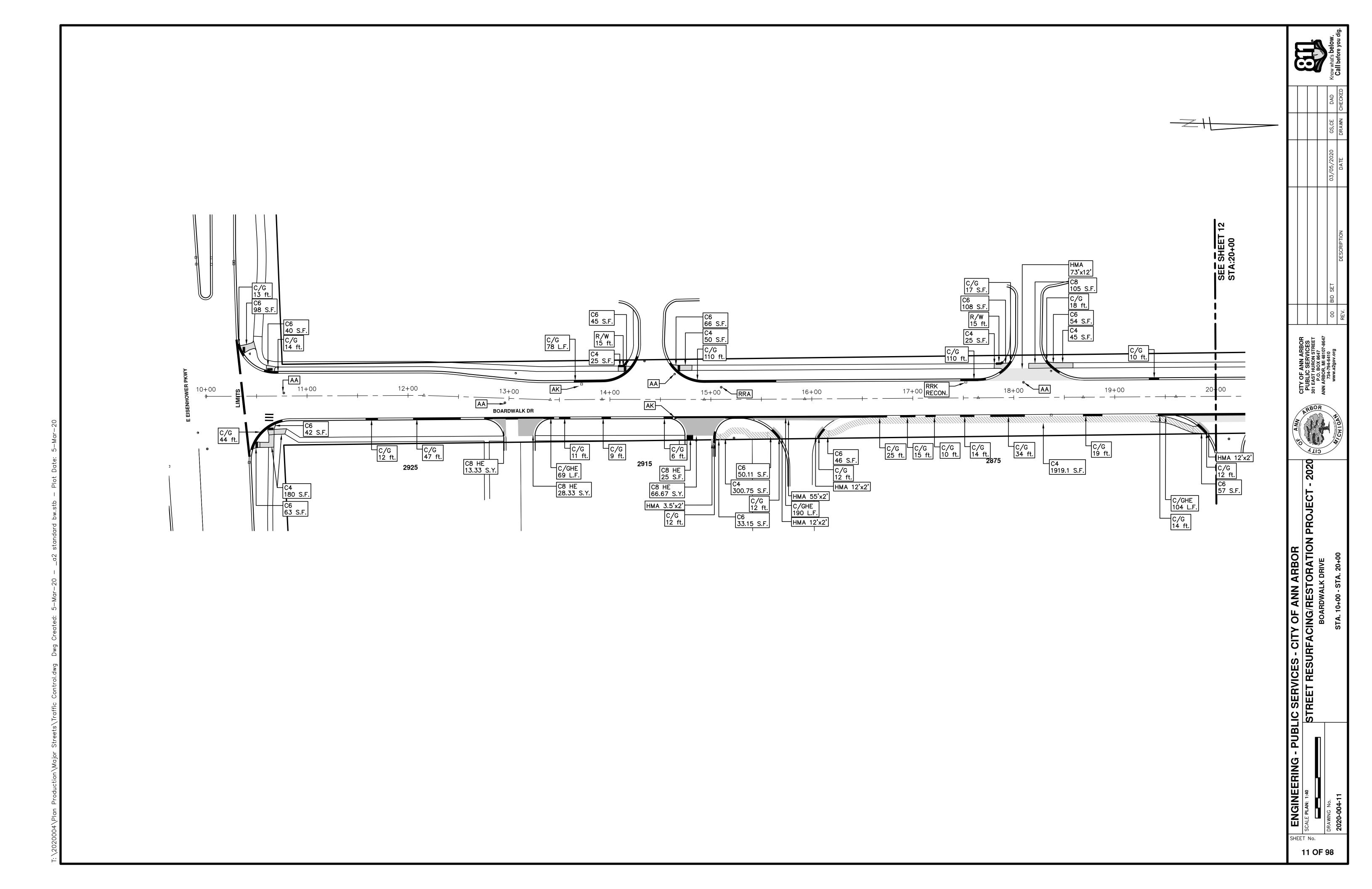
NGINEERING -

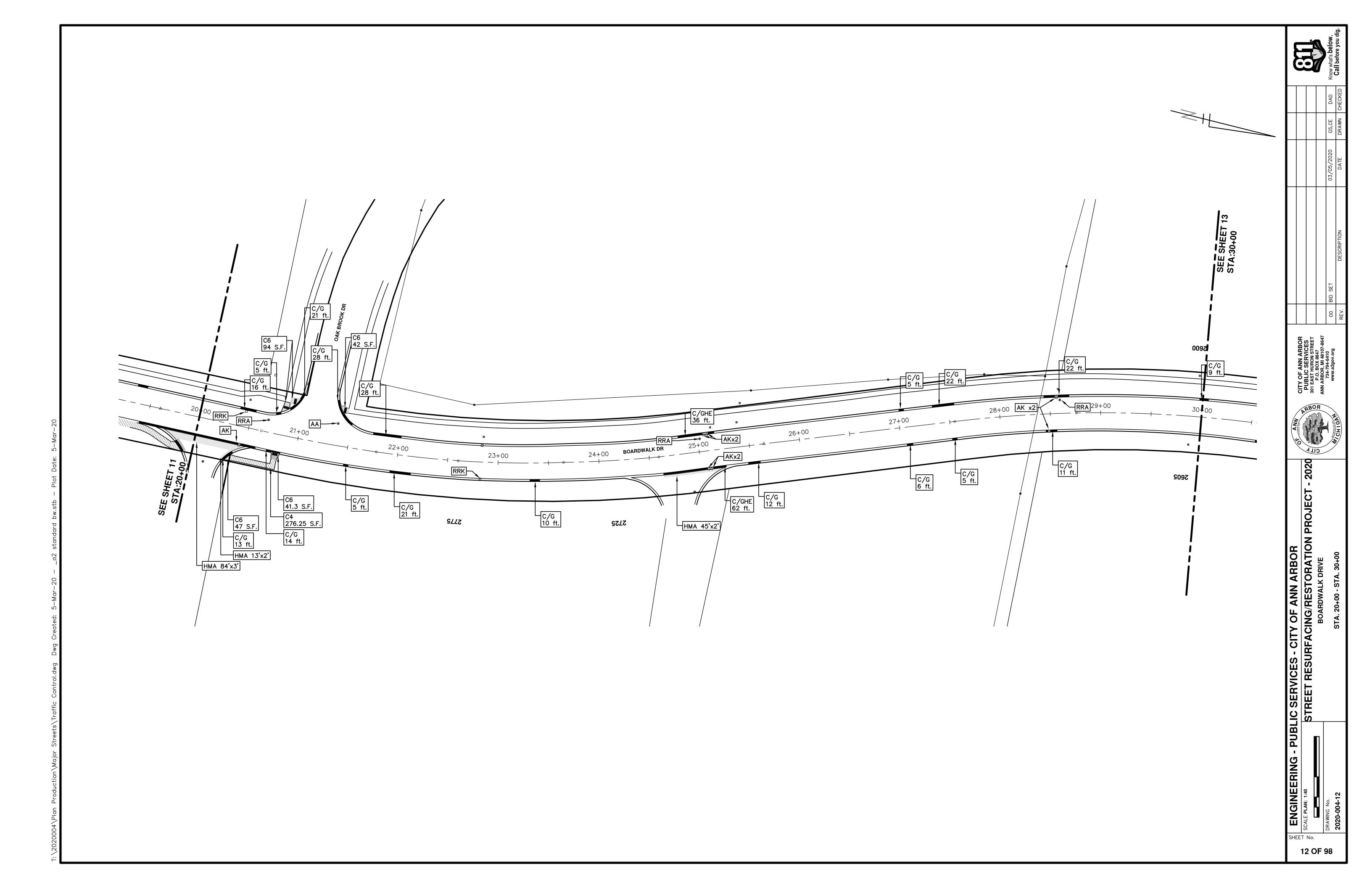
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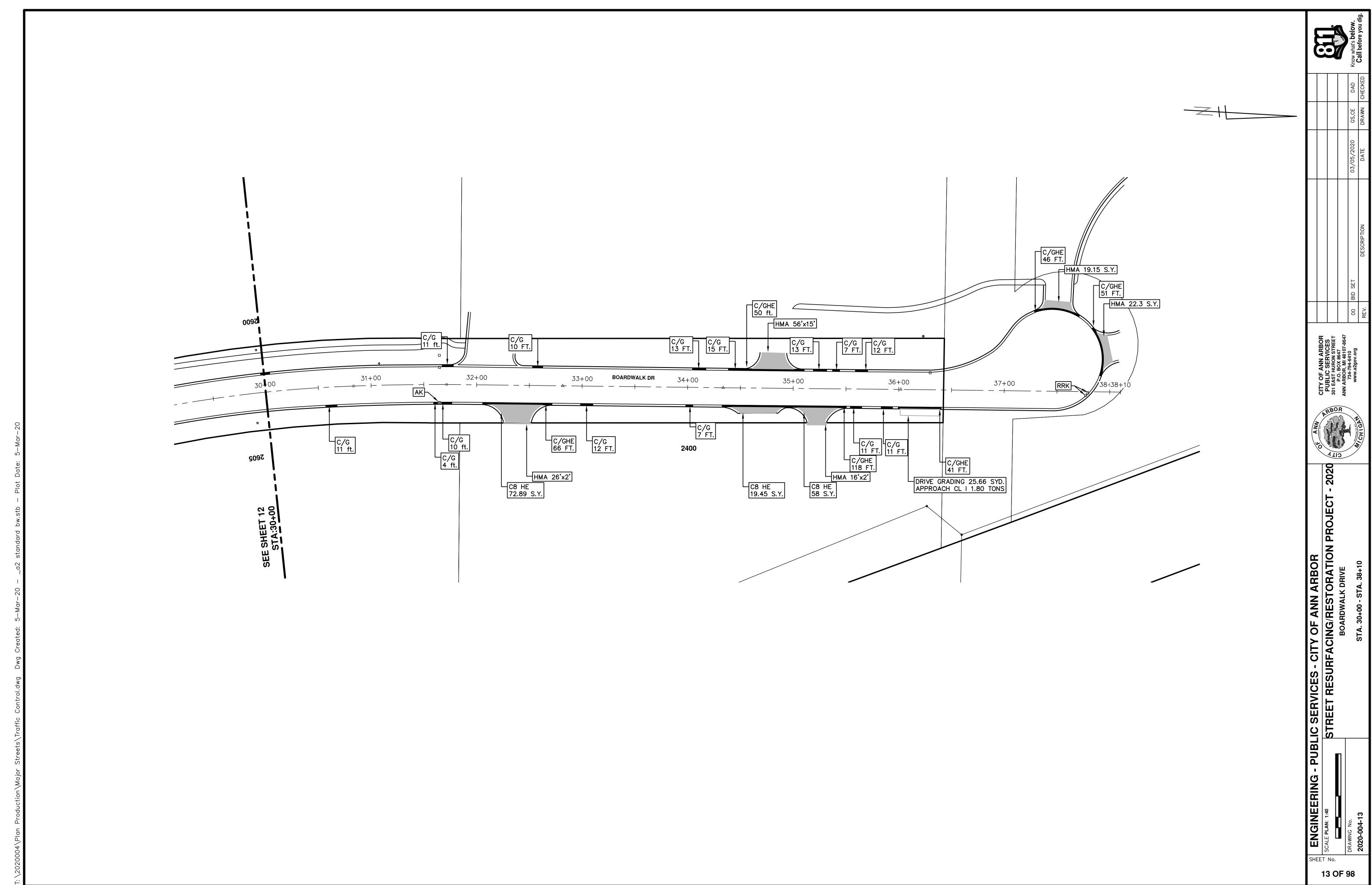
R OF 98

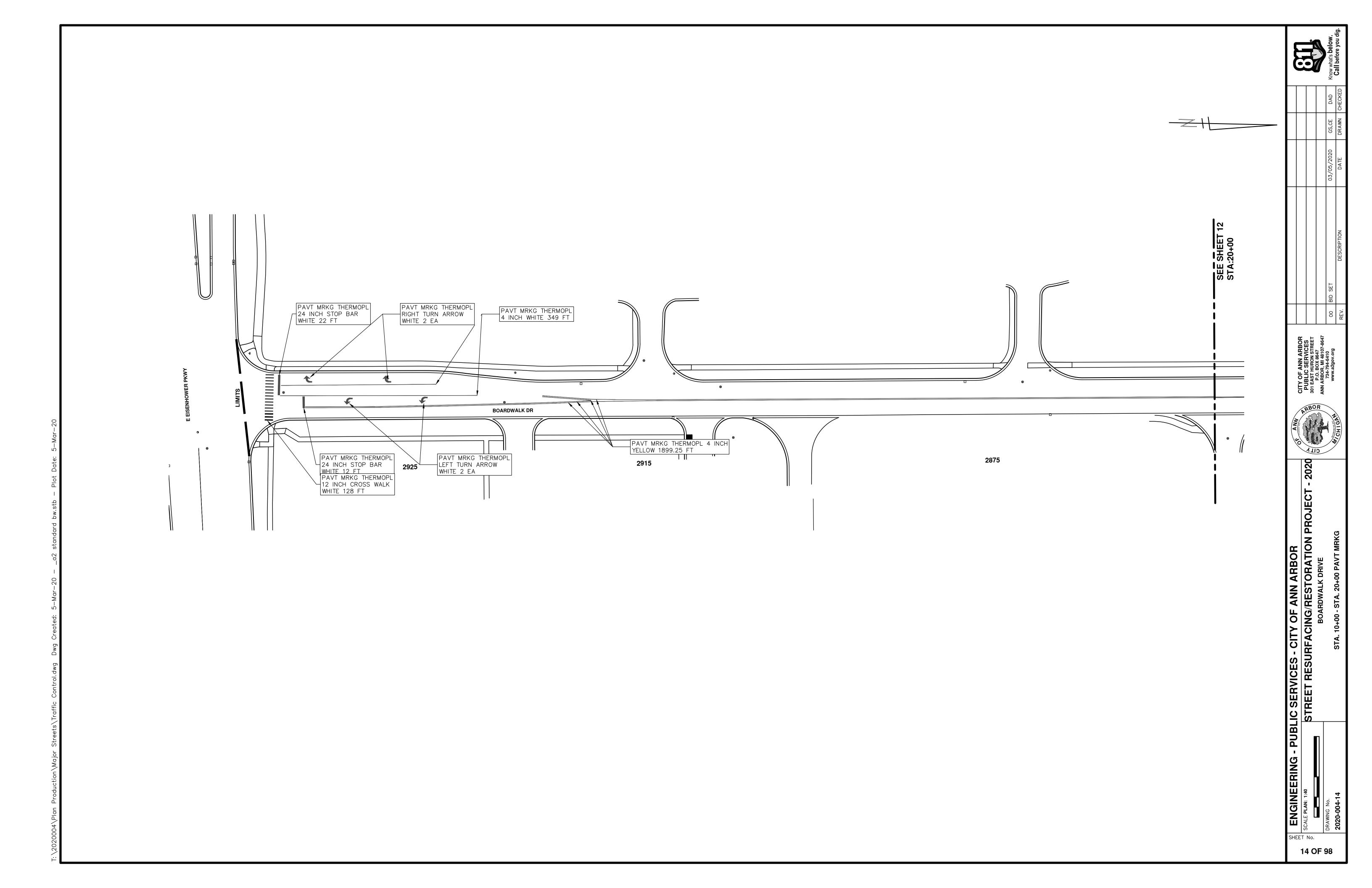


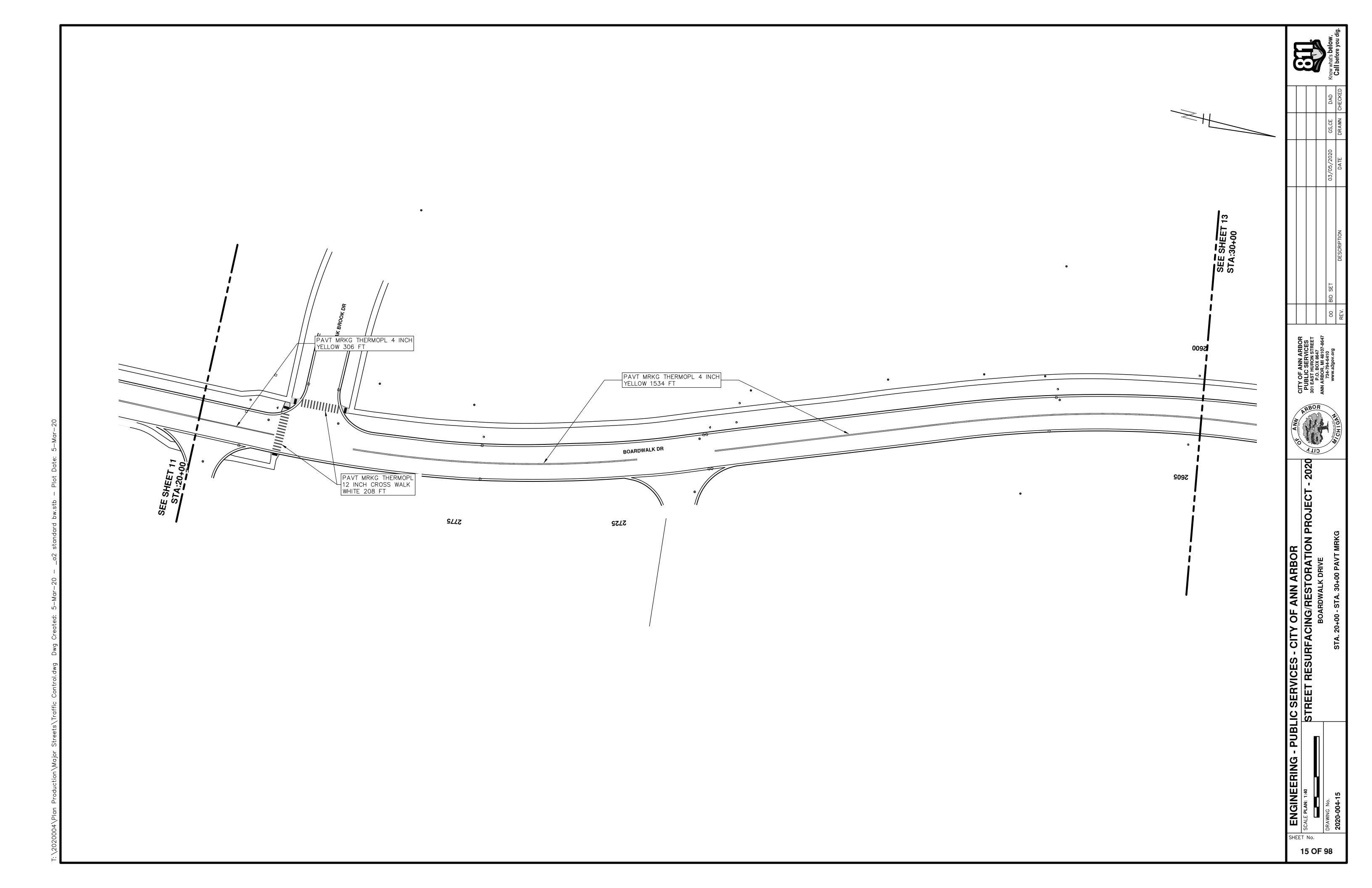


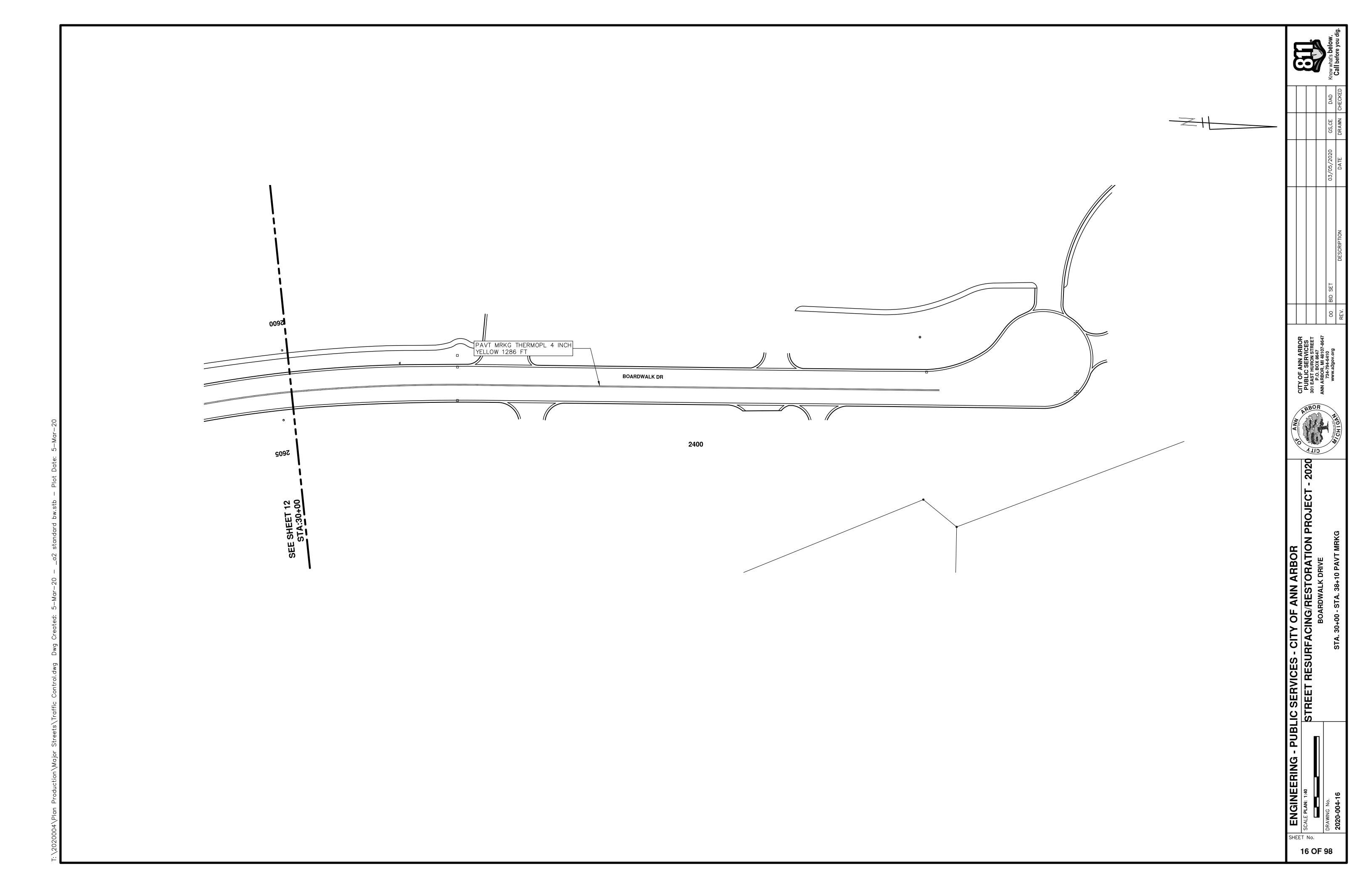














CITY OF ANN ARBOR ENGINEERING PROJECT LOCATION: GEDDES AVENUE

ITB No. BID NO FILE No. 2020-004

Item Code	QUANTITIES Item Description	Unit	Quantity
2047001	Curb, Gutter, and Curb and Gutter, Any Type, Rem	Ft	424.500
2047001	Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	Syd	156.330
2057011	Grading, Driveway Approach	Syd	15.000
2057011	Grading, Sidewalk	Syd	6.670
2057011	Grading, Sidewalk Grading, Sidewalk Ramp	Syd	4.450
2057011		Syd	1,627.090
2057011	Subgrade Undercutting, Type IIA	Cyd	162.693
2080020	Erosion Control, Inlet Protection, Fabric Drop	Ea	102.090
4037050	Dr Structure Cover, Type B, Modified	Ea	2.000
4037050	_Dr Structure, Adj, Case 1, Modified	Ea	5.000
4037050	_Dr Structure, Temp Lowering, Modified	Ea	6.000
5010002	Cold Milling HMA Surface	Syd	2,373.000
5010002	HMA Surface, Rem	Syd	53.000
5010005	Hand Patching	Ton	13.000
5010023	HMA, 4E3	Ton	
5010057	HMA, 5E3		178.980
6027021	<u>'</u>	Ton	260.920
	_Flowable Fill	Cyd	12.000
8017011	Driveway, Nonreinf Conc, 6 inch, Modified	Syd	15.000
8027001	_Curb and Gutter, Conc, Barrier	Ft	116.500
8027001	Driveway Opening, Conc, Det M, Modified	Ft	122.000
8030030	Curb Ramp Opening, Conc	Ft	77.000
8037001	_Detectable Warning Surface, Modified	Ft	55.000
8037010	_Sidewalk Ramp, Conc, 6 inch, Modified	Sft	527.960
8037010	_Sidewalk, Conc, 6 inch, Modified	Sft	60.000
8110049	Pavt Mrkg, Ovly Cold Plastic, Direction Arrow Sym, Bike	Ea	2.000
8110058	Pavt Mrkg, Ovly Cold Plastic, Bike, Small Sym	Ea –	2.000
8110079	Pavt Mrkg, Ovly Cold Plastic, Sharrow Symbol	Ea	2.000
8110195	Pavt Mrkg, Thermopl, 4 inch, White	Ft	168.000
8110196	Pavt Mrkg, Thermopl, 4 inch, Yellow	Ft	1,471.000
8110198	Pavt Mrkg, Thermopl, 6 inch, White	Ft	1,466.000
8110212	Pavt Mrkg, Thermopl, 12 inch, Cross Hatching, White	Ft	32.000
8110214	Pavt Mrkg, Thermopl, 12 inch, Crosswalk	Ft	752.000
8110218	Pavt Mrkg, Thermopl, 24 inch, Stop Bar	Ft	74.000
8110343	Rem Spec Mrkg	Sft	168.000
8117001	_Pavt Mrkg, Thermopl, 4 inch, Parking Sym, White	Ft	9.000
8117050	_Pavt Mrkg, Thermopl, Lt Turn Arrow Sym	Ea	2.000
8120012	Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	Ea	8.000
8120013	Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	Ea	89.000
8120140	Lighted Arrow, Type C, Furn	Ea	1.000
8120141	Lighted Arrow, Type C, Oper	Ea	1.000
8120250	Plastic Drum, High Intensity, Furn	Ea	35.000
8120251	Plastic Drum, High Intensity, Oper	Ea	35.000
8120310	Sign Cover	Ea	8.000
8120331	Sign, Portable, Changeable Message, Oper	Ea	2.000
8120350	Sign, Type B, Temp, Prismatic, Furn	Sft	451.000
8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	451.000
8120352	Sign, Type B, Temp, Prismatic, Special, Furn	Sft	144.000
8120353	Sign, Type B, Temp, Prismatic, Special, Oper	Sft	144.000
8127050	_Pedestrian Type II Barricade, Temp	Ea	4.000
	Slope Restoration	Syd	170.000
8167011			
8167011 8217050	_Monument Box, Adj	Ea	1.000

	QUANTITIES Sign, Type B, Temp, Prismatic & *Sign, Type B, Temp, Prismatic, Special				
Quantity	Sign Code	Description	Area (sft)	Total Area (Sft)	
36.0	*D3-1	Street Name Sign	4.000	144.000	
6.0	G20-2	End Road Work	4.500	27.000	
1.0	W4-2R	Lane Ends / Right	9.000	9.000	
6.0	W20-1	Road Work Ahead Sign	9.000	54.000	
6.0	W20-2	Detour Ahead	9.000	54.000	
6.0	W20-3	Road Closed Ahead	9.000	54.000	
1.0	W20-5L	Lane Ends / Left	9.000	9.000	
2.0	M4-8a	Detour Ends	3.000	6.000	
7.0	M4-9S	Arrow Poetour	5.000	35.000	
2.0	M4-9R	Right Arrow Detour	5.000	10.000	
2.0	M4-9L	Left Arrow Detour	6.000	12.000	
1.0	M4-10R	Detour / Right	6.000	6.000	
1.0	M4-10L	Detour / Left	6.000	6.000	
2.0	R3-1	No Right Turn	4.000	8.000	
2.0	R3-2	No Left Turn	4.000	8.000	
3.0	R5-1	Do Not Enter	9.000	27.00	
6.0	R5-18C	Work Zone Begins	16.000	96.000	
3.0	R11-2	Road Closed	10.000	30.00	
			TOTAL	595.000	

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

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

	Know what's below	Call before you dig.
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		DAD	CHECK	
		GS,CE	DRAWN CHECKED	
		03/05/2020	DATE	
		3ID SET	DESCRIPTION	



	TRAFF	FIC CONTROL	SIGN
	SIGN	NUMBER	QUANTITY
1		BARRICADE TYPE III HIGH INTENSITY LIGHTED	6
(2)	GEDDES AVE	D3-1 M4-8a	1
	ENDS	24X18	6
3	DETOUR	D3-1 M4-9S 30x24	6
4	GEDDES AVE	D3-1 M4-9R 30x24	2
(5)	GEDDES AVE DETOUR	D3-1 M4-9L	1 1
	GEDDES AVE	(MOD.) 30x24 D3-1	0
6	DETOUR	M4-9R (MOD.) 30×24	0
7	GEDDES AVE DETOUR	D3-1 M4-9L (MOD.)	1
8	DETOUR	30x24 M4-10R 48x18	1
9	DETOUR	M4-10L 48x18	1
10	ONE WAY R6-1R	36"x12"	0
11)	ONE WAY R6-1L	36"x12"	0
12)		R3-2 24"x24"	1
13)		R3–1 24"x24"	2
14)	ROAD CLOSED	R11-2 48X30	2
15)	ROAD CLOSED TO THRU TRAFFIC	R11-4 60x30	0
16)	END ROAD WORK	G20-2 48" ×24"	6
17)	ROAD WORK AHEAD	W20-1 36x36	6
	GEDDES AVE	D3-1	6
18)	DETOUR AHEAD	W20-2 36×36	6
	GEDDES AVE	D3-1	6
19	ROAD CLOSED AHEAD	W20-3 36x36	6
	GEDDES AVE	D3-1	6
20	RIGHT LANE CLOSED AHEAD	W20-5R 36"x36"	0
21)		W4-2R 36"x36"	1

DETOUR CONSTRUCTION NOTES:

- 1. DEPENDING ON THE DETOUR ROUTES THAT ARE PUT IN PLACE, CONFLICTING SIGNS MAY BE PRESENT. PRIOR TO THE ORDERING OR PLACEMENT OF ANY SIGNS, MEET WITH THE ENGINEER TO VERIFY THE EXACT NUMBER AND LOCATION OF THE SIGNS TO BE PLACED. THE ENGINEER AND THE CONTRACTOR SHALL WORK TOGETHER TO ELIMINATE ALL CONFLICTS.
- 2. THE CITY RESERVES THE RIGHT TO ORDER ADDITIONAL SIGNS AND PLACE THEM INTO SERVICE IN ORDER TO SAFELY MAINTAIN TRAFFIC. ADJUSTMENTS IN THE UNIT PRICE FOR THESE ITEMS OF WORK SHALL NOT BE ALLOWED FOR THESE OCCURRENCES.
- 3. THE CONTRACTOR SHALL COORDINATE HIS OPERATIONS WITH THOSE OF THE CITY OF ANN ARBOR'S SIGNS AND SIGNALS UNIT DURING THE COURSE OF THE DETOUR ROUTE ESTABLISHMENT TO EFFECTIVELY AND SAFELY MAINTAIN TRAFFIC. DO NOT ERECT ANY SIGNS UNTIL ITS LOCATION AND PROPOSED DATE OF INSTALLATION IS APPROVED BY THE ENGINEER.
- 4. THIS DETOUR IS TO BE IN PLACE DURING GEDDES AVE. CONSTRUCTION AS DIRECTED BY THE ENGINEER, THE CONTRACTOR WILL CLOSE AND DETOUR EAST AND WEST BOUND GEDDES AVE. TRAFFIC. SEE "SPECIAL PROVISION FOR MAINTAINING TRAFFIC AND CONSTRUCTION SEQUENCING" FOR DETAILS ON CONSTRUCTION STAGING, SEQUENCING, CLOSURE AND DETOUR LIMITATIONS, AND OTHER DETAILS.
- 5. REFERENCE THE "DETAILED SPECIFICATION FOR MAINTAINING TRAFFIC AND CONSTRUCTION SEQUENCING" FOR ADDITIONAL PROJECT REQUIREMENTS. THE CONTRACTOR'S ATTENTION IS SPECIFICALLY DIRECTED TO THE SECTION OF SAME SPECIAL PROVISION REGARDING COORDINATION WITH THE CITY SIGNS AND SIGNALS UNIT FOR THE SEVERAL DETOUR ROUTE MODIFICATIONS AND THE MODIFICATIONS TO TRAFFIC SIGNALS FOR THE DETOUR.
- 6. THE CONTRACTOR SHALL FURNISH, ERECT, AND MAINTAIN SIGNS AS SHOWN ON THE PLANS OR OTHERWISE DIRECTED BY THE ENGINEER.
- 7. CONSTRUCTION WARNING SIGNS SHALL HAVE AN ORANGE, HIGH-INTENSITY, REFLECTORIZED BACKGROUND.
- 8. SIGNS SHALL CONFORM TO THE 2011 MICHIGAN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
- 9. THE CONTRACTOR SHALL DRIVE ALL SIGNS INTO EXPOSED GROUND OR INSERT INTO A BORED HOLE IN PAVEMENT AS NECESSARY TO PERMANENTLY SECURE. ALL HOLES IN PAVEMENT SHALL BE FILLED WITH ENGINEER—APPROVED MORTAR WHEN THE SIGN IS REMOVED AND NO LONGER NEEDED. COSTS FOR THIS WORK SHALL BE INCLUDED IN THE PAY ITEM "SIGN, TYPE B, TEMP, PRISMATIC, FURN" OR "SIGN, TYPE B, TEMP, PRISMATIC, FURN, SPECIAL".

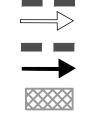
TRAFFIC CONTROL SIGN						
	SIGN	NUMBER	QUANTITY			
22	LEFT LANE CLOSED AHEAD	W20-5L 36"x36"	1			
23)		W4-2L 36"x36"	1			
24)	WORK ZONE BEGINS	R5–18C 48"x48"	6			
25)	EAST BOUND GEDDES AVE CLOSED AT WASHTENAW AVE FOLLOW DETOUR	SPECIAL 48x66	3			
26)	WEST BOUND GEDDES AVE CLOSED AT OBSERVATORY ST FOLLOW DETOUR	SPECIAL 48x66	3			
27)	DO NOT ENTER	R5–1 36x36	3			
SIGN, PORTABLE, CHANGEABLE MESSAGE		VERIFY EXACT QUANTITY AND LOCATION WITH ENGINEER PRIOR TO ORDERING				

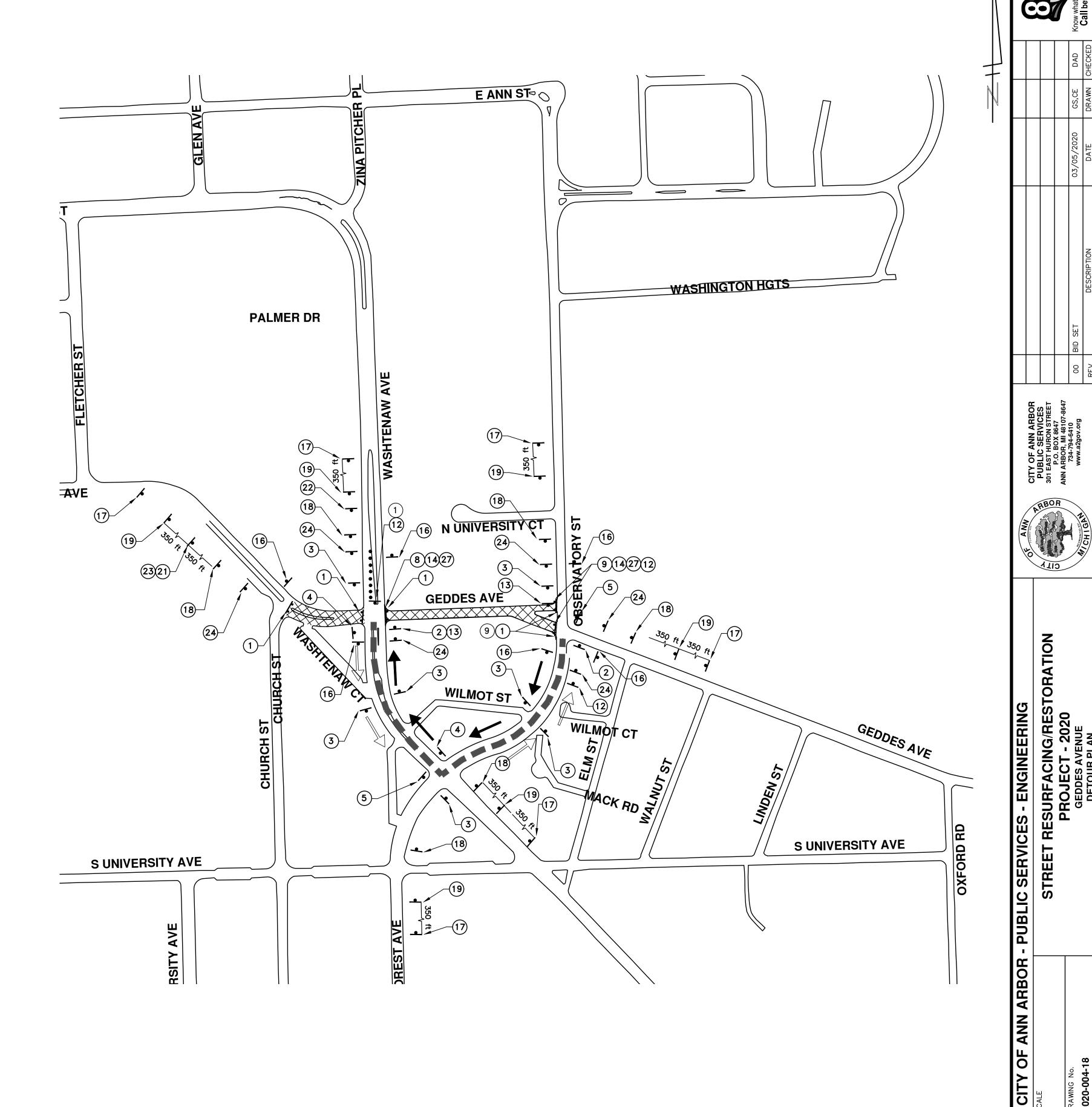
LEGEND:

EAST BOUND GEDDES AVE DETOUR ROUTE

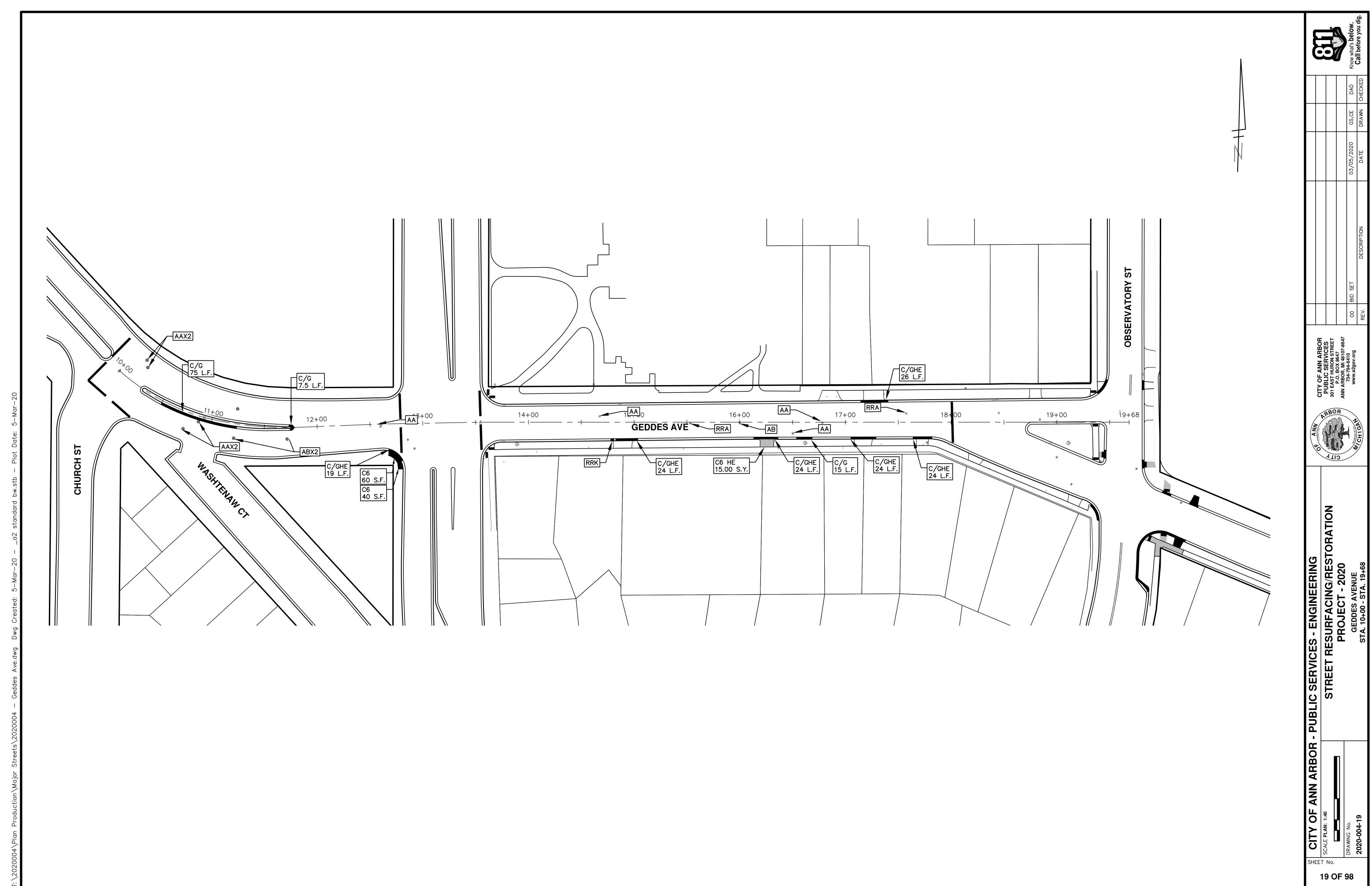
WEST BOUND GEDDES AVE DETOUR ROUTE GEDDES AVE

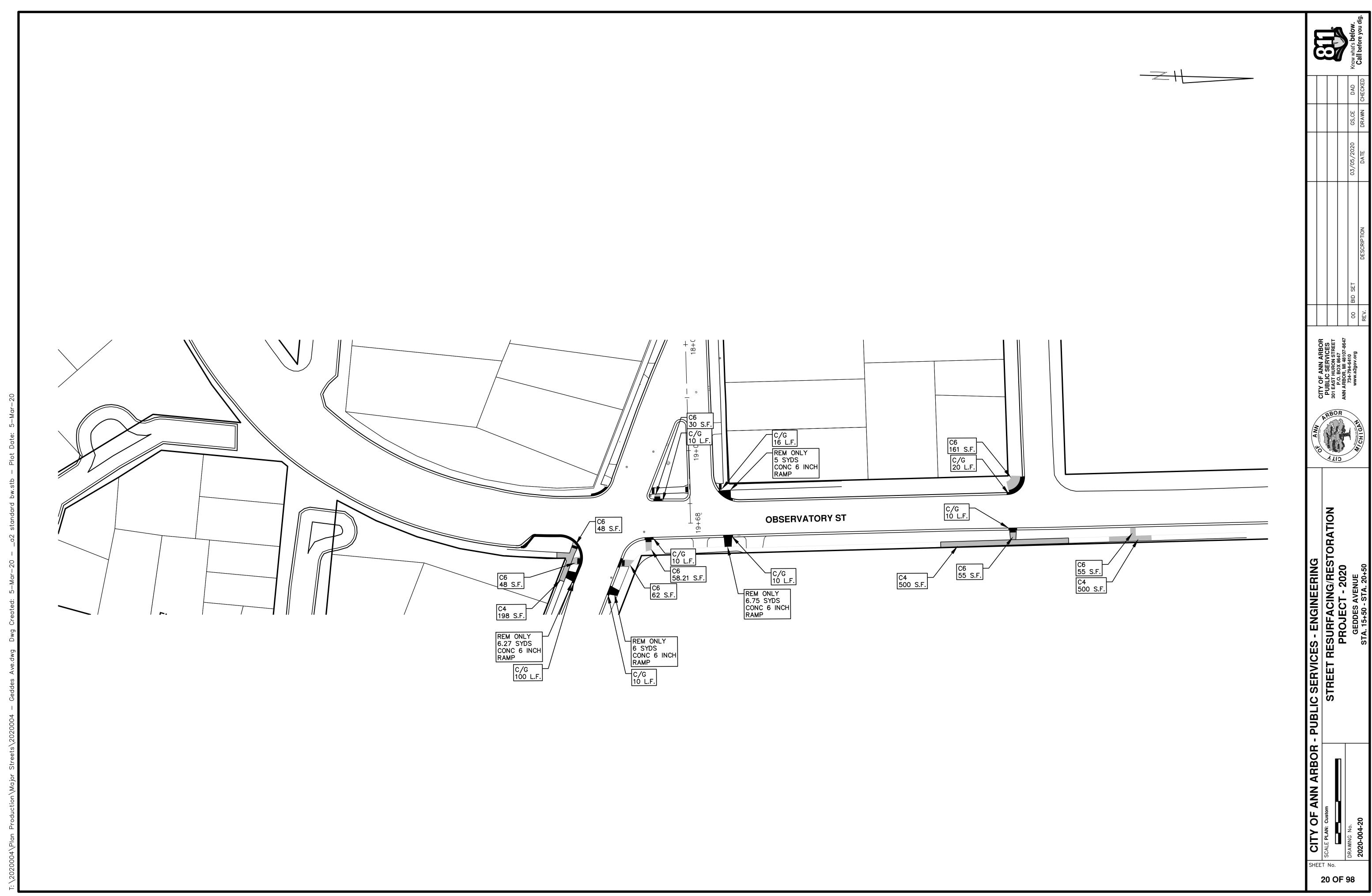
WORK ZONE

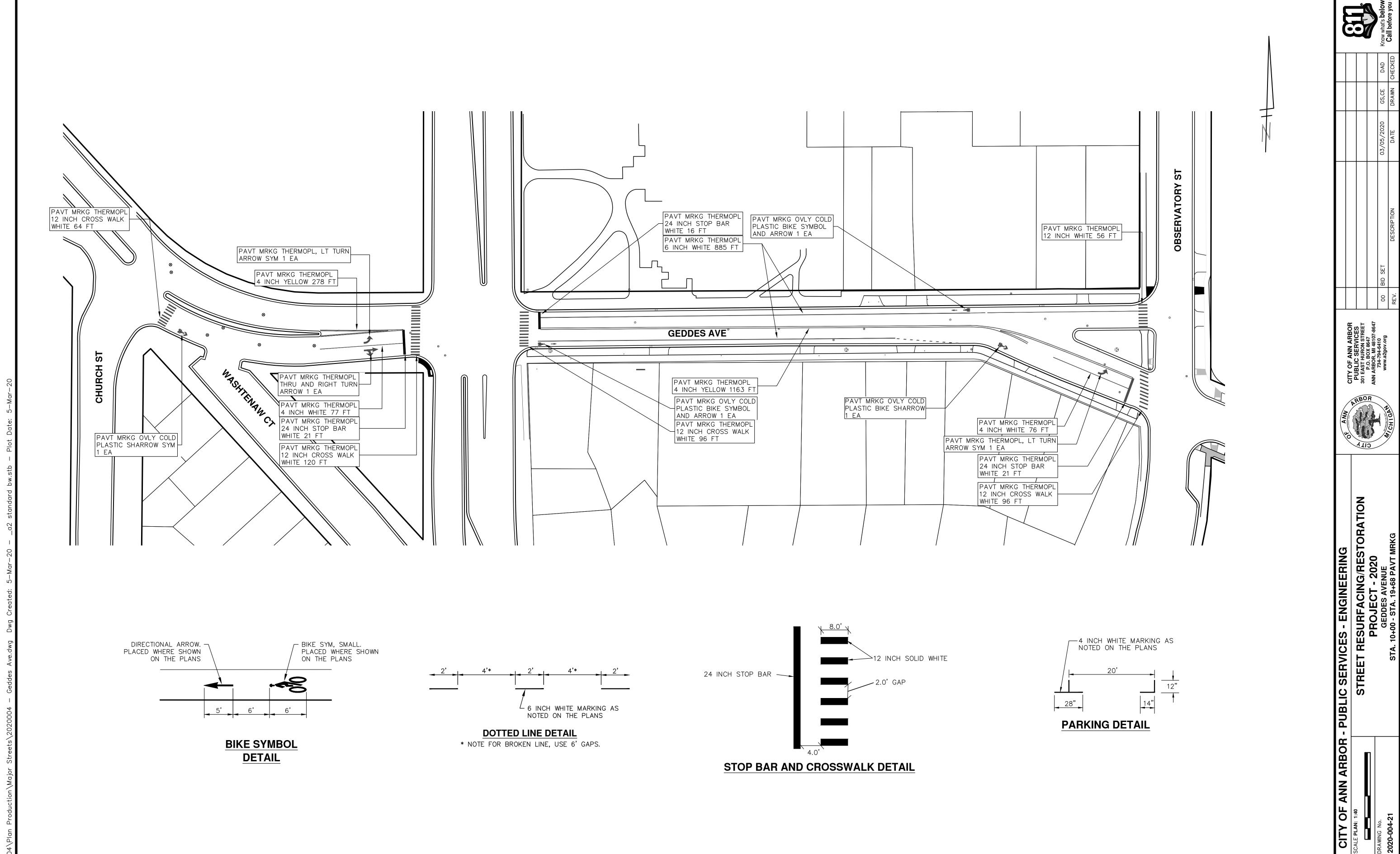




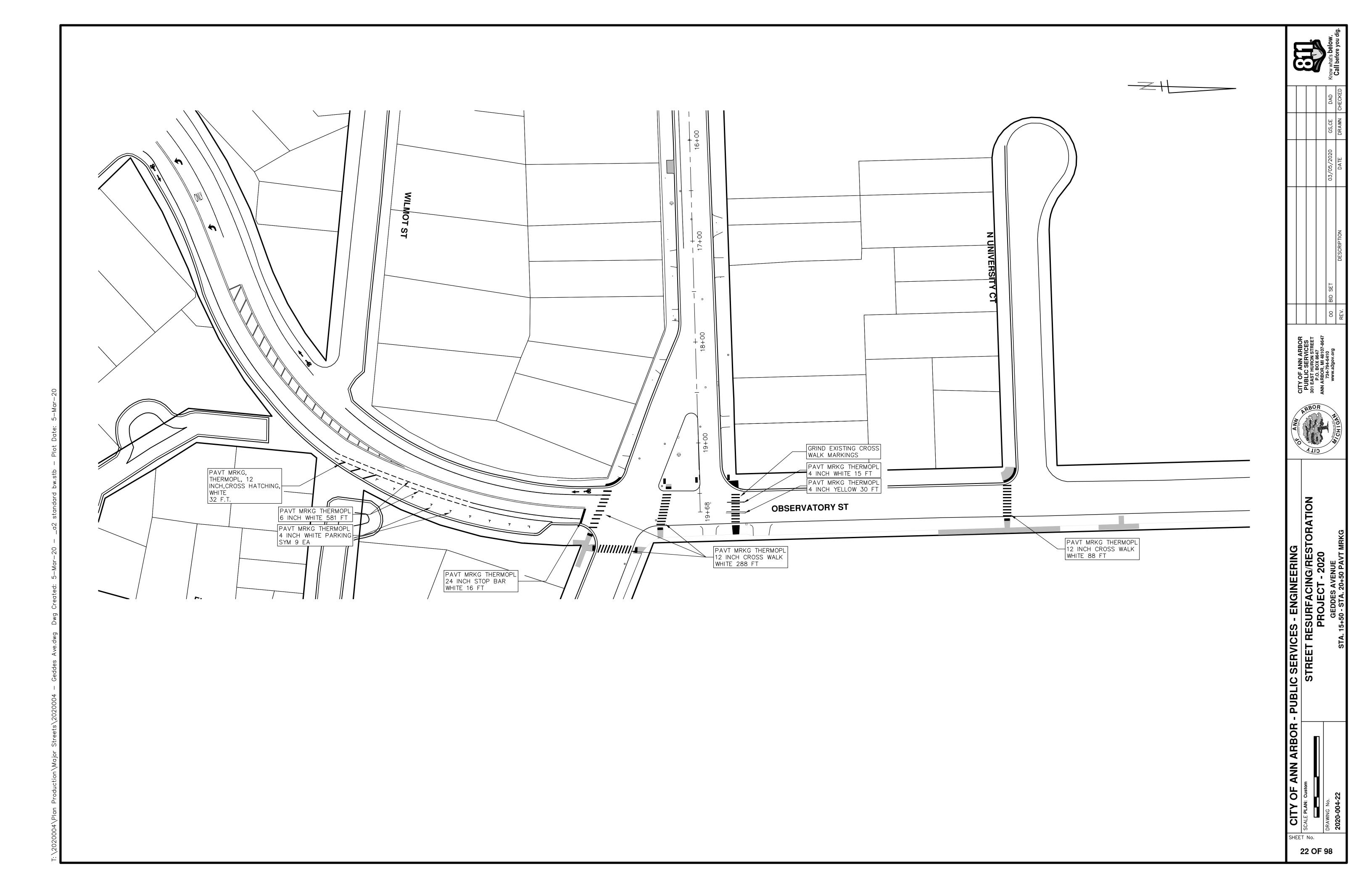
: \2020004\Plan Production\Major Streets\2020004 — Geddes Ave.dwg Dwg Created: 5—Mar—20 — _a2 standard bw.stb — Plot Date: 5







SHEET No. 21 OF 98





CITY OF ANN ARBOR ENGINEERING PROJECT LOCATION: GRANGER AVENUE

ITB No. BID NO FILE No. 2020-004

QUANTITIES				
Item Code	Item Description	Unit	Quantity	
2030011	Dr Structure, Rem	Ea	16.000	
2030015	Sewer, Rem, Less than 24 inch	Ft	160.000	
2040050	Pavt, Rem	Syd	4,539.910	
2047001	_Curb, Gutter, and Curb and Gutter, Any Type, Rem	Ft	3,861.000	
2047011	_Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	Syd	1,371.930	
2057011	_Grading, Driveway Approach	Syd	619.390	
2057011	_Grading, Sidewalk	Syd	554.060	
2057011	_Grading, Sidewalk Ramp	Syd	138.480	
2057011	_Machine Grading, Special	Syd	6,767.000	
2057021	_Subgrade Undercutting, Type IIA	Cyd	684.265	
2080020	Erosion Control, Inlet Protection, Fabric Drop	Ea	25.000	
3027011	_Aggregate Base, 12 inch, Modified	Syd	3,697.930	
4020987	Sewer, Cl IV, 12 inch, Tr Det B	Ft	265.000	
4030200	Dr Structure, 24 inch dia	Ea	16.000	
4030210	Dr Structure, 48 inch dia	Ea	3.000	
4037050	_Dr Structure Cover, Type B, Modified	Ea	29.000	
4037050	_Dr Structure Cover, Type K, Modified	Ea	16.000	
4037050	_Dr Structure, Adj, Case 1, Modified	Ea	28.000	
4037050	_Dr Structure, Temp Lowering, Modified	Ea	41.000	
4047001	_Underdrain, Subgrade, 6 inch, Special	Ft	380.000	
5010002	Cold Milling HMA Surface	Syd	5,067.340	
5010005	HMA Surface, Rem	Syd	858.320	
5010703	HMA, LVSP	Ton	1,436.770	
5017011	_Cold Milling for Concrete Curb and Gutter Reveal	Syd	4.265	
5017031	_HMA, Wedging, 36A	Ton	8.000	
8017011	_Driveway, Nonreinf Conc, 6 inch, Modified	Syd	619.390	
8027001	_Curb and Gutter, Conc, Barrier or Mountable, Slip Form	Ft	2,781.000	
8027001	_Driveway Opening, Conc, Det M, Modified	Ft	960.000	
8030030	Curb Ramp Opening, Conc	Ft	120.000	
8037001	_Detectable Warning Surface, Modified	Ft	95.000	
8037010	_Sidewalk Ramp, Conc, 6 inch, Modified	Sft	1,246.330	
8037010	_Sidewalk, Conc, 4 inch, Modified	Sft	2,808.180	
8037010	_Sidewalk, Conc, 6 inch, Modified	Sft	2,178.350	
8110049	Pavt Mrkg, Ovly Cold Plastic, Direction Arrow Sym, Bike	Ea	10.000	
8110058	Pavt Mrkg, Ovly Cold Plastic, Bike, Small Sym	Ea	10.000	
8110196	Pavt Mrkg, Thermopl, 4 inch, Yellow	Ft	200.000	
8110198	Pavt Mrkg, Thermopl, 6 inch, White	Ft	2,797.000	
8110214	Pavt Mrkg, Thermopl, 12 inch, Crosswalk	Ft	984.000	
8110218	Pavt Mrkg, Thermopl, 24 inch, Stop Bar	Ft	98.000	
8117001	_Pavt Mrkg, Thermopl, 4 inch, Parking Sym, White	Ft	65.000	
8120012	Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	Ea	7.000	
8120013	Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	Ea	7.000	
8120250	Plastic Drum, High Intensity, Furn	Ea	232.000	
8120251	Plastic Drum, High Intensity, Oper	Ea	232.000	
8120330	Sign, Portable, Changeable Message, Fum	Ea	2.000	
8120331	Sign, Portable, Changeable Message, Oper	Ea	2.000	
8120350	Sign, Type B, Temp, Prismatic, Furn	Sft	405.500	
8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	405.500	
8120352	Sign, Type B, Temp, Prismatic, Special, Furn	Sft	168.000	
8120353	Sign, Type B, Temp, Prismatic, Special, Oper	Sft	168.000	
8127050	_Pedestrian Type II Barricade, Temp	Ea	10.000	
8127050	_Temporary No Parking Sign	Ea	65.000	
8167011	_Slope Restoration	Syd	1,544.400	
8217050	Monument Box, Adj	Ea	9.000	
8230431	Gate Box, Adj, Case 1	Ea	5.000	

	QUANTITIES Sign, Type B, Temp, Prismatic & *Sign, Type B, Temp, Prismatic, Special				
Quantity	Area (sft)	Total Area (Sft)			
0.0	*D3-1	Street Name Sign	4.000	0.000	
0.0	G20-2	End Road Work	4.500	0.000	
0.0	W3-5B	Reduce Speed Zone	9.000	0.000	
0.0	W4-2R	Lane Ends / Right	9.000	0.000	
0.0	W20-1	Road Work Ahead Sign	9.000	0.000	
0.0	W20-2	Detour Ahead	9.000	0.000	
0.0	W20-3	Road Closed Ahead	9.000	0.000	
0.0	W20-5R	Right Lane Closed Ahead	9.000	0.000	
0.0	W20-5L	Lane Ends / Left	9.000	0.000	
0.0	M4-8a	Detour Ends	3.000	0.000	
0.0	M4-9S	Arrow 1 Detour	5.000	0.000	
0.0	M4-9R	Right Arrow Detour	5.000	0.000	
0.0	M4-9L	Left Arrow Detour	6.000	0.000	
0.0	M4-9L	Left Arrow Detour (MOD)	5.000	0.000	
0.0	M4-9R	Right Arrow Detour (MOD)	5.000	0.000	
0.0	M4-10R	Detour / Right	6.000	0.000	
0.0	M4-10L	Detour / Left	6.000	0.000	
0.0	R2-1	Speed Limit	7.500	0.000	
0.0	R3-1	No Right Turn	4.000	0.000	
0.0	R3-2	No Left Turn	4.000	0.000	
0.0	R5-1	Do Not Enter	9.000	0.000	
0.0	R5-18C	Work Zone Begins	16.000	0.000	
0.0	R6-1R	One Way / Right	3.000	0.000	
0.0	R6-1L	One Way / Left	3.000	0.000	
0.0	R11-2	Road Closed	10.000	0.000	
0.0	R11-3a	Road Closed Local Traffic Only	12.500	0.000	
0.0	R11-4	Road Closed To Thru Traffic	12.500	0.000	
			TOTAL	0.000	

NOTES:

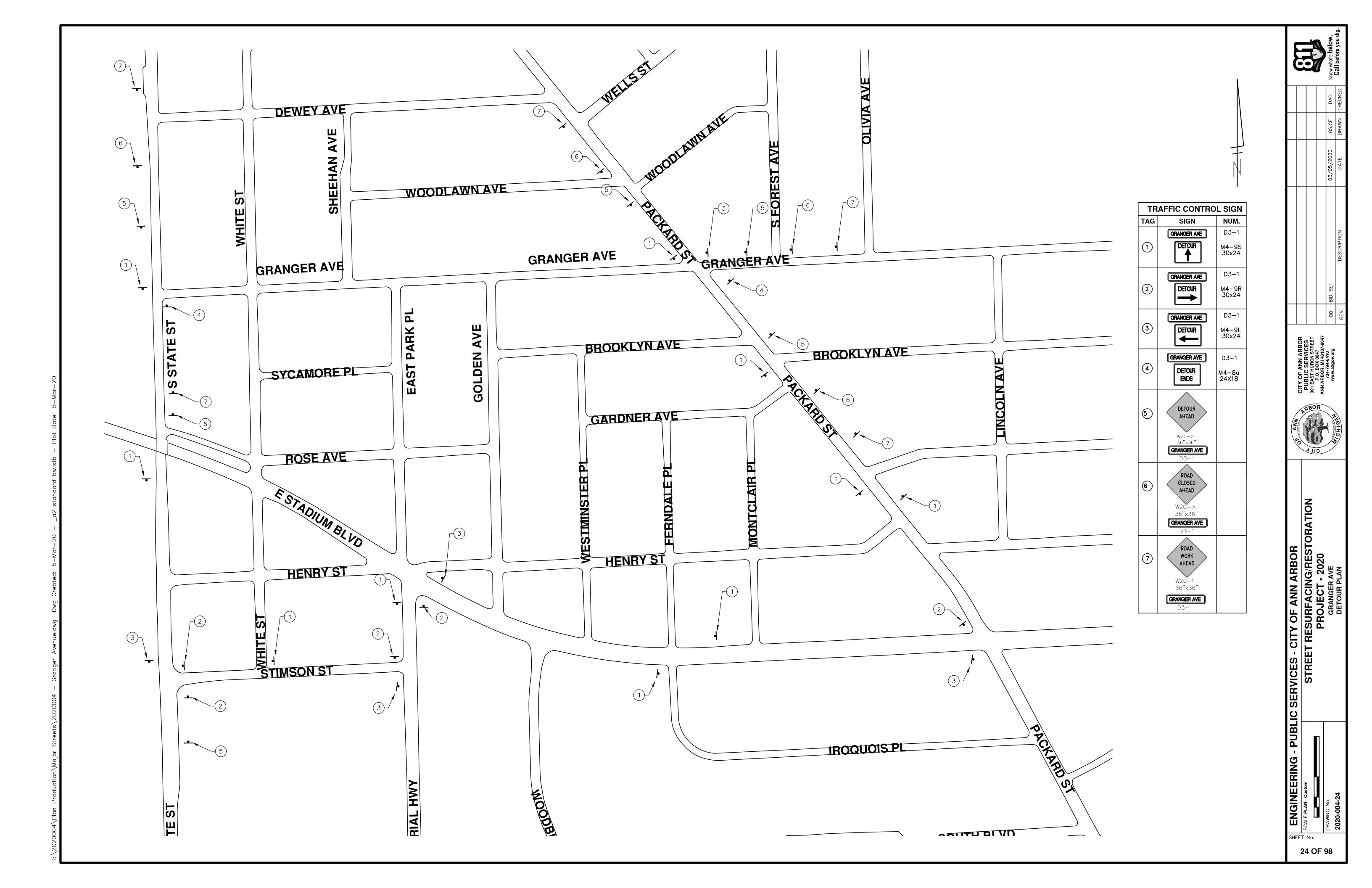
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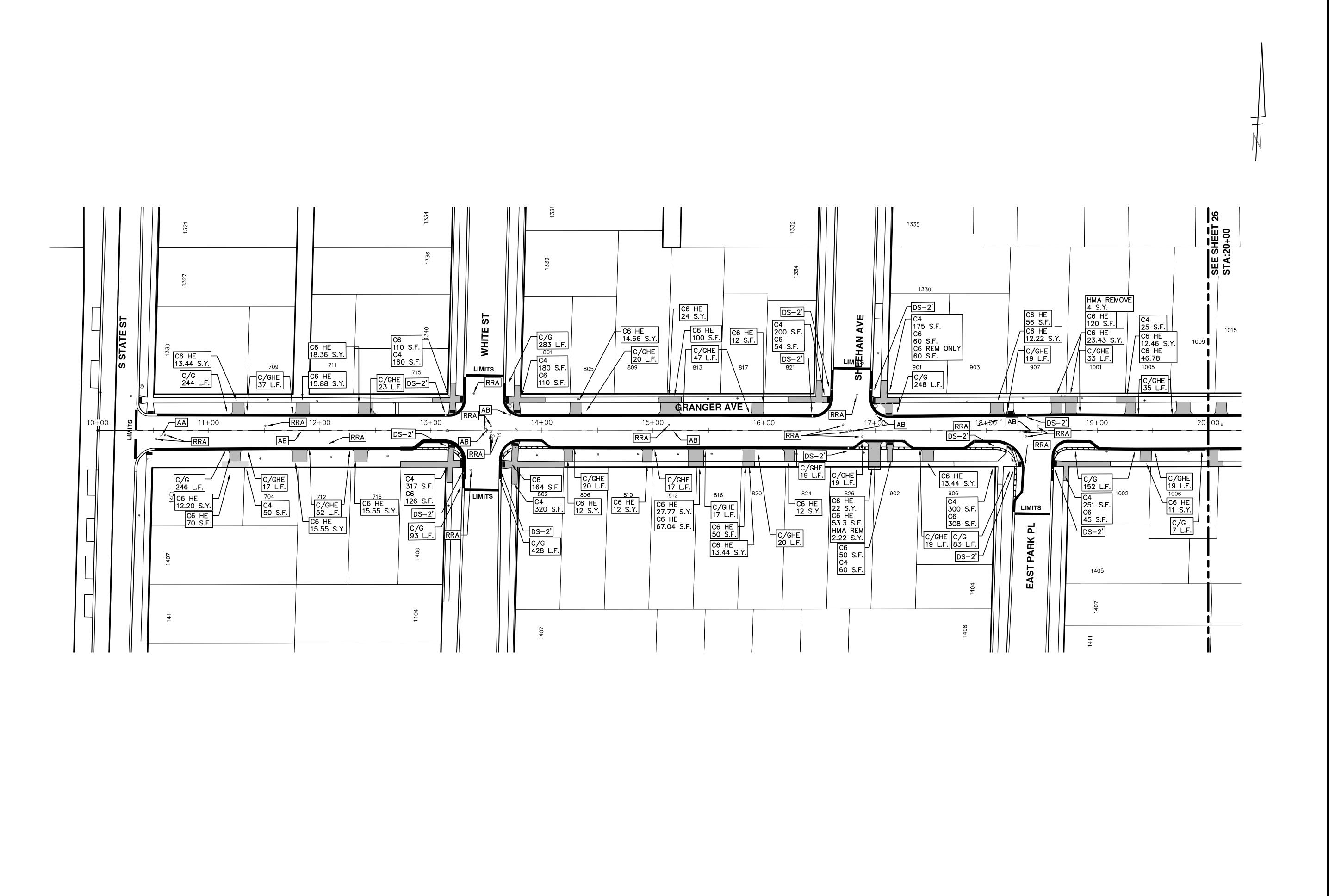
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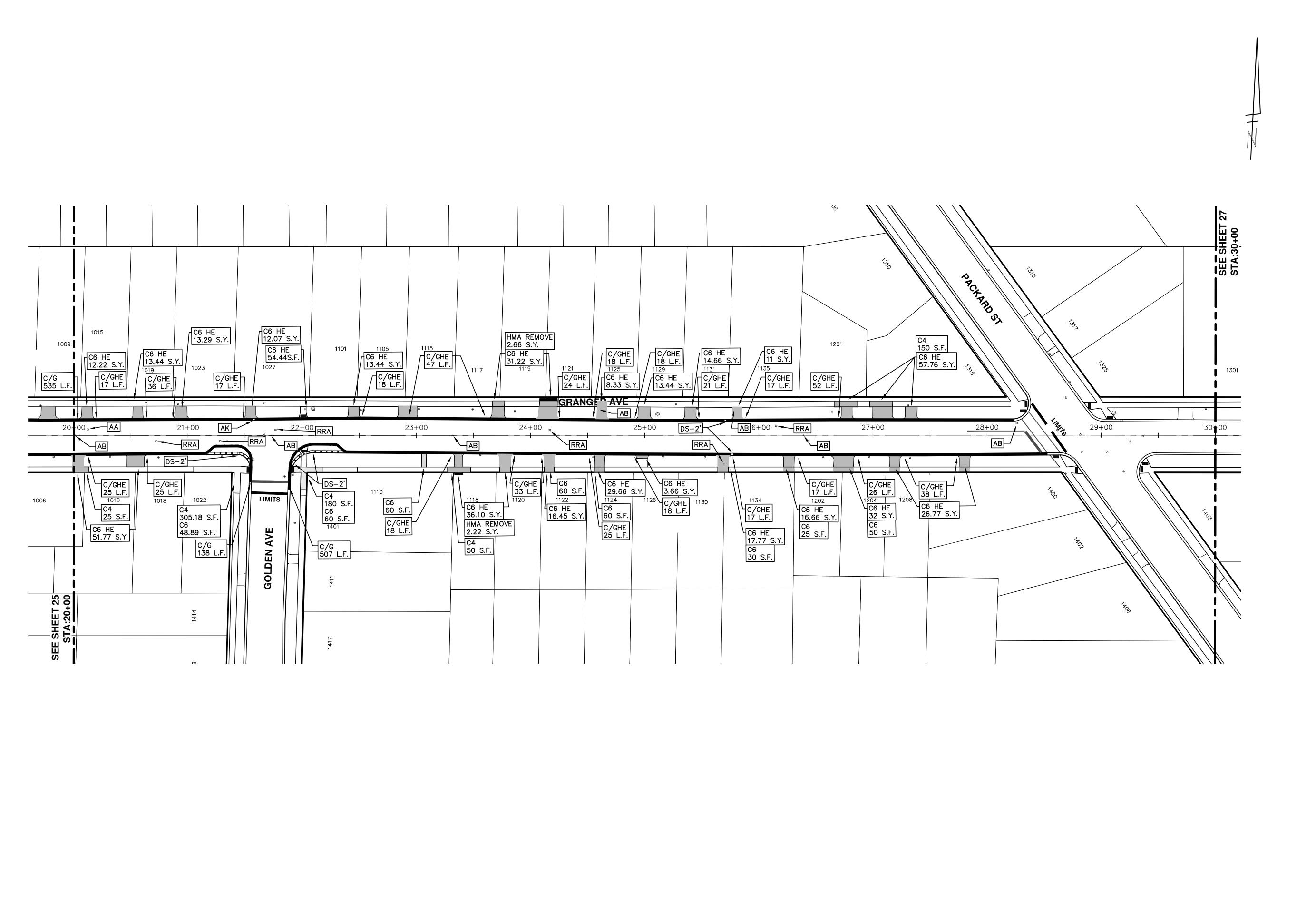
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	03/05/2020	DATE	







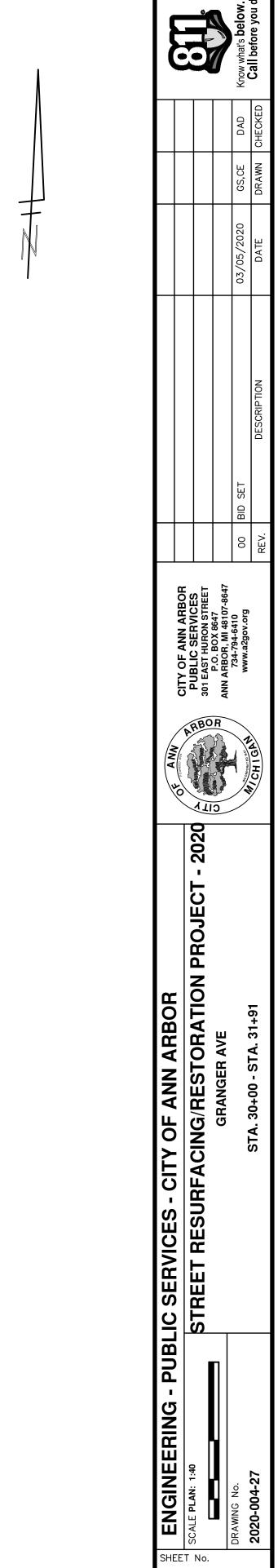


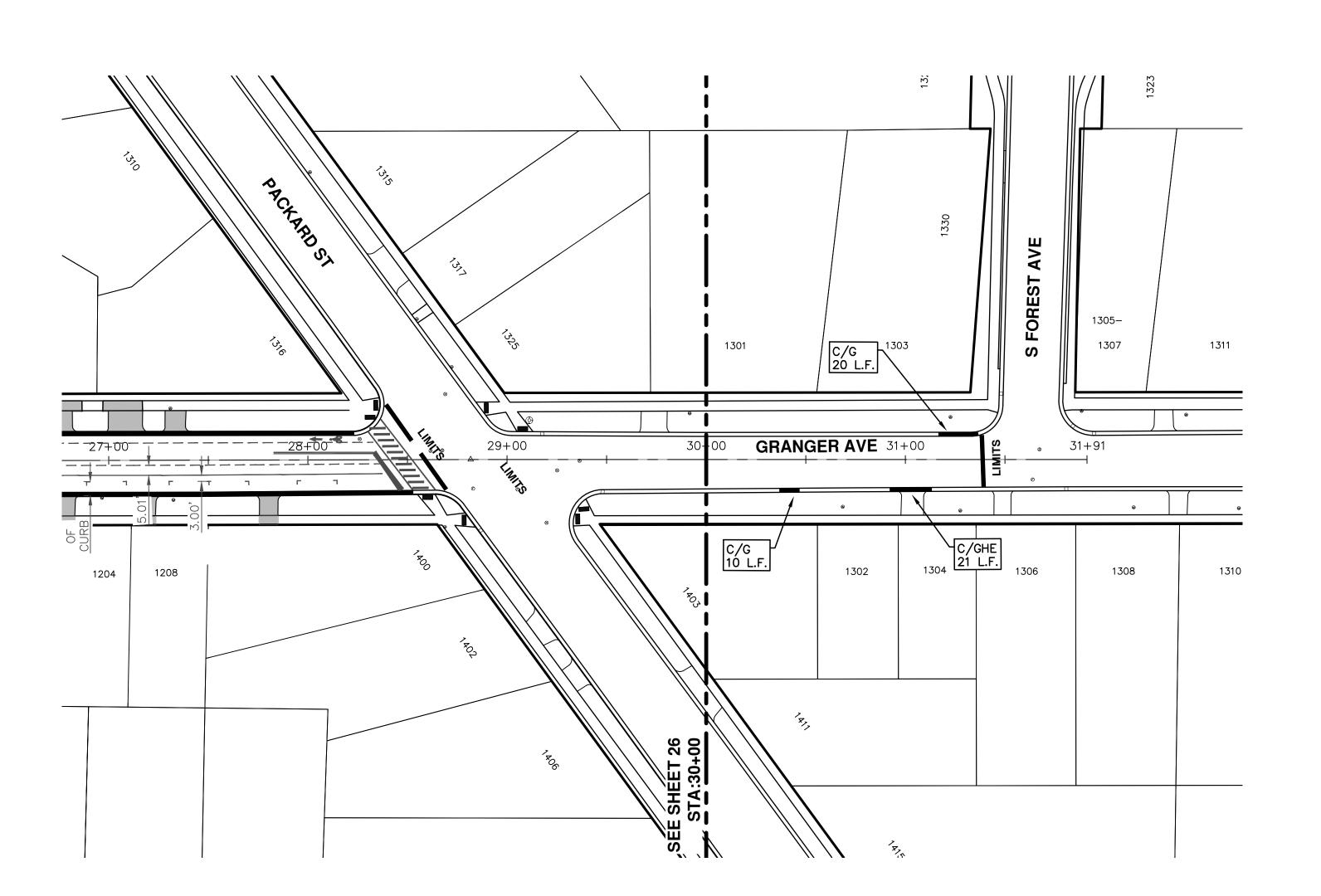
ENGINEERING - PUBLIC SERVICES - CITY OF ANN ARBOR

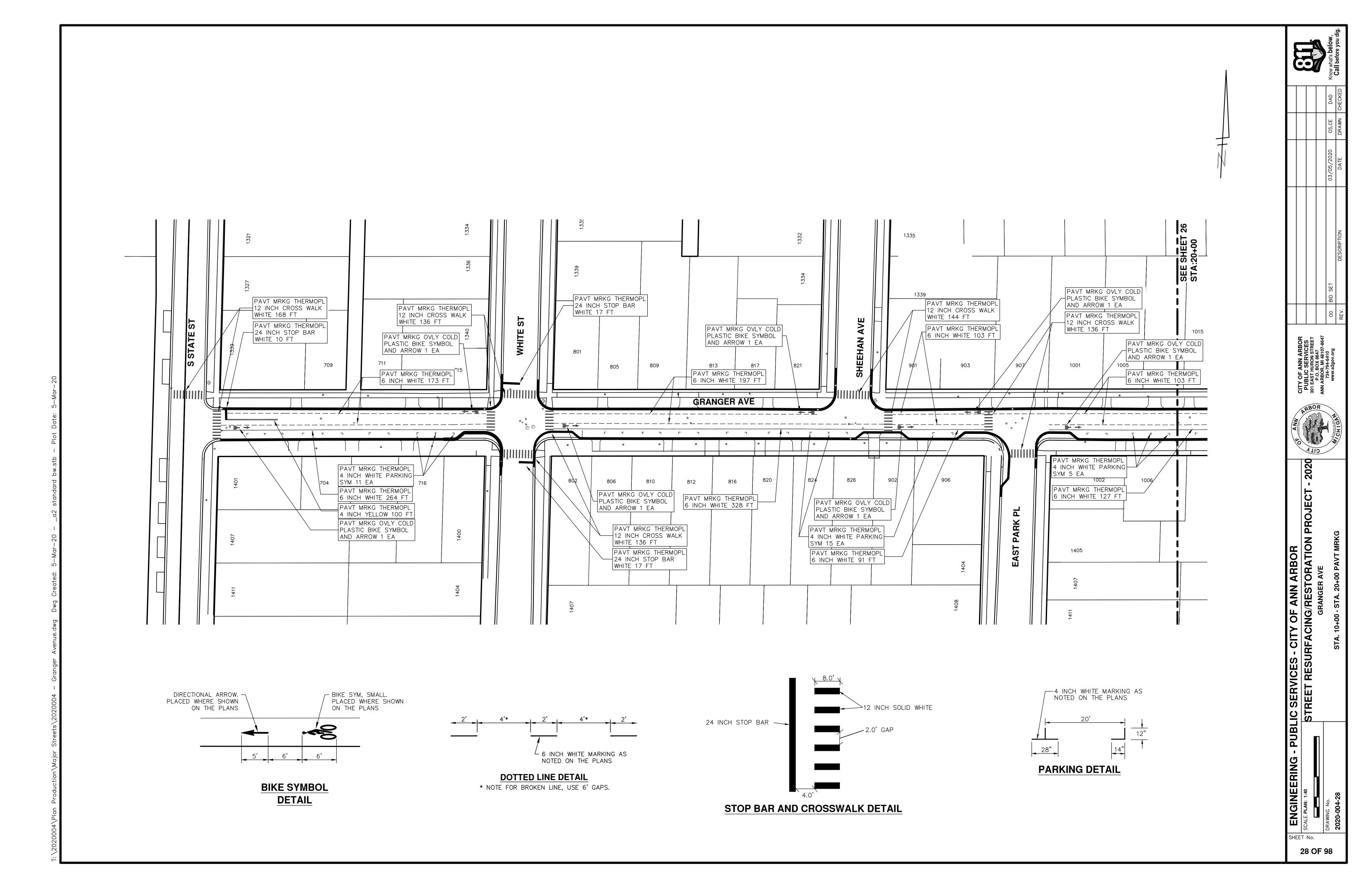
SCALE PLAN: 1:40

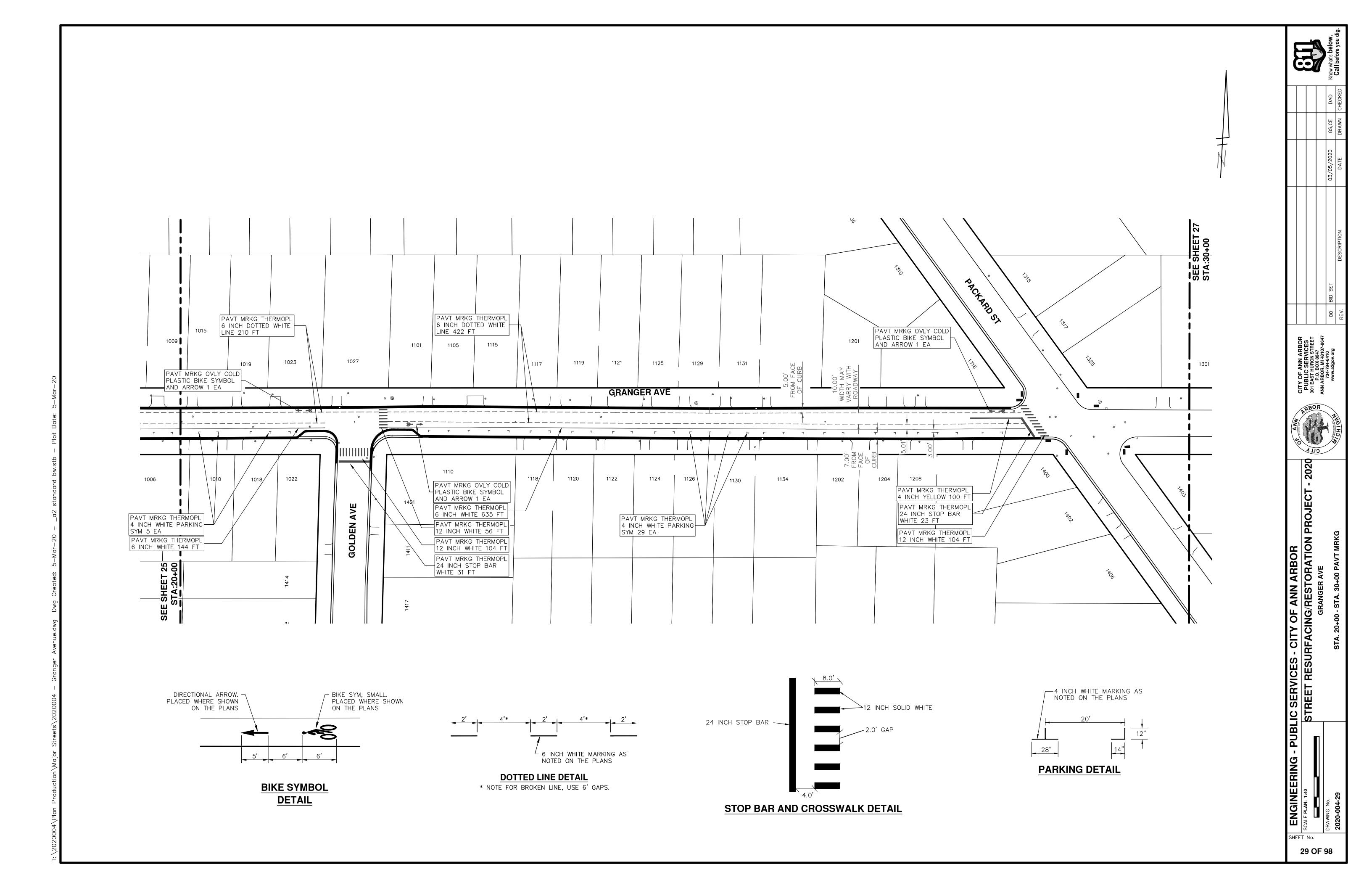
STREET RESURFACING/RESTORATION PROJE

CANNON NO.









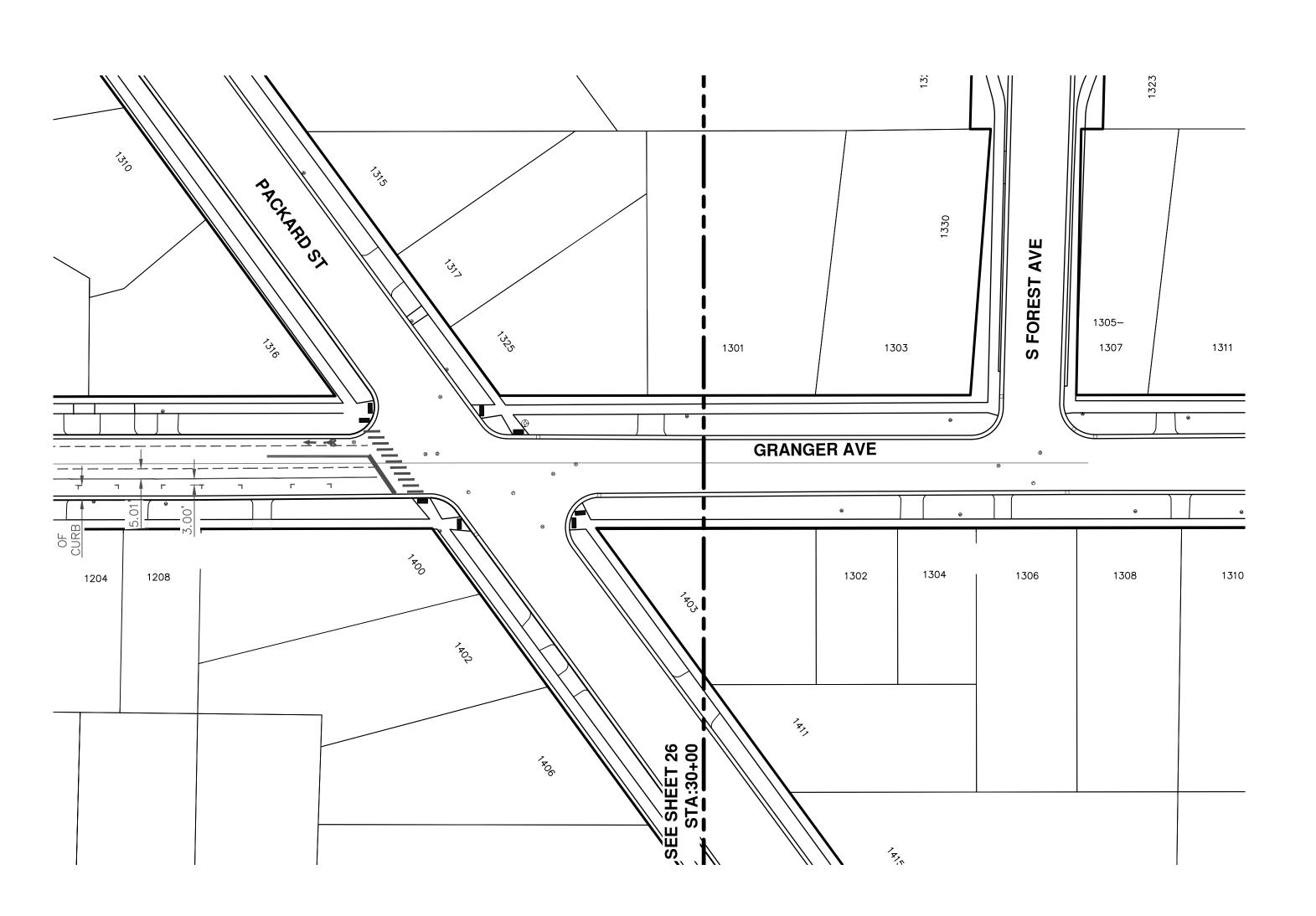
ENGINEERING - PUBLIC SERVICES - CITY OF ANN ARBOR

SCALE PLAN: 1:40

BRANGER AVE

CARAMING No.

STA. 30+00 - STA. 31+91 PAVT MRKG





CITY OF ANN ARBOR ENGINEERING

PROJECT LOCATION: E MADISON STREET

ITB No. BID NO FILE No. 2020-004

QUANTITIES				
Item Code	Item Description	Unit	Quantity	
2040065	Track, Rem	Ft	71.000	
2047001	_Curb, Gutter, and Curb and Gutter, Any Type, Rem	Ft	75.000	
2047011	_Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	Syd	62.950	
2057011	_Grading, Driveway Approach	Syd	25.170	
2057011	_Grading, Sidewalk	Syd	23.333	
2057011	_Grading, Sidewalk Ramp	Syd	31.111	
2057011	_Machine Grading, Special	Syd	337.950	
2080020	Erosion Control, Inlet Protection, Fabric Drop	Ea	5.000	
3027031	_Aggregate Base, Modified	Ton	21.000	
5010002	Cold Milling HMA Surface	Syd	338.000	
5010005	HMA Surface, Rem	Syd	66.450	
5010025	Hand Patching	Ton	4.000	
5010051	HMA, 4E3	Ton	25.220	
5010057	HMA, 5E3	Ton	42.650	
6027021	_Flowable Fill	Cyd	2.083	
8017011	_Driveway, Nonreinf Conc, 8 inch, Modified	Syd	8.500	
8027001	_Curb and Gutter, Conc, Barrier	Ft	25.000	
8027001		Ft	50.000	
8030030	Curb Ramp Opening, Conc	Ft	28.000	
8037001	Detectable Warning Surface, Modified	Ft	20.000	
8037010	Sidewalk Ramp, Conc, 6 inch, Modified	Sft	280.000	
8037010	_Sidewalk, Conc, 6 inch, Modified	Sft	210.000	
8110195	Pavt Mrkg, Thermopl, 4 inch, White	Ft	200.000	
8110196	Pavt Mrkg, Thermopl, 4 inch, Yellow	Ft	1,101.000	
8110213	Pavt Mrkg, Thermopl, 12 inch, Cross Hatching, Yellow	Ft	274.500	
8110214	Pavt Mrkg, Thermopl, 12 inch, Crosswalk	Ft	144.000	
8110218	Pavt Mrkg, Thermopl, 24 inch, Stop Bar	Ft	51.000	
8110343	Rem Spec Mrkg	Sft	223.000	
8117050	Pavt Mrkg, Thermopl, Lt Turn Arrow Sym	Ea	2.000	
8117050	Pavt Mrkg, Wet Retrflec Polyurea, Railroad Sym	Ea	2.000	
8120012	Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	Ea	4.000	
8120013	Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	Ea	4.000	
8120210	Pavt Mrkg, Longit, 6 inch or Less Width, Rem	Ft	1,164.000	
8120250	Plastic Drum, High Intensity, Furn	Ea	25.000	
8120251	Plastic Drum, High Intensity, Oper	Ea	25.000	
8120231		Ea		
	Sign Cover		6.000	
8120331	Sign, Portable, Changeable Message, Oper	Ea	2.000 304.000	
8120350	Sign, Type B, Temp, Prismatic, Furn	Sft		
8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	304.000	
8120352	Sign, Type B, Temp, Prismatic, Special, Furn	Sft	116.000	
8120353	Sign, Type B, Temp, Prismatic, Special, Oper	Sft	116.000	
8127050	_Pedestrian Type II Barricade, Temp	Ea –	4.000	
8507050	_HMA Surface, Around Structure Cover, Rem	Ea	1.000	

	QUANTITIES					
	Sign, Type B, Temp, Prismatic & *Sign, Type B, Temp, Prismatic, Special					
Quantity	Sign Code	Description	Area (sft)	Total Area (Sft)		
29.0	*D3-1	Street Name Sign	4.000	116.000		
6.0	W20-1	Road Work Ahead Sign	9.000	54.000		
6.0	W20-2	Detour Ahead	9.000	54.000		
6.0	W20-3	Road Closed Ahead	9.000	54.000		
1.0	W20-5L	Lane Ends / Left	9.000	9.000		
1.0	M4-8a	Detour Ends	3.000	3.000		
6.0	M4-9S	Arrow 1 Detour	5.000	30.000		
2.0	M4-9R	Right Arrow Detour	5.000	10.000		
1.0	M4-9L	Left Arrow Detour	6.000	6.000		
1.0	M4-9L	Left Arrow Detour (MOD)	5.000	5.000		
1.0	M4-10R	Detour / Right	6.000	6.000		
1.0	M4-10L	Detour / Left	6.000	6.000		
1.0	R3-2	No Left Turn	4.000	4.000		
2.0	R5-1	Do Not Enter	9.000	18.000		
2.0	R11-2	Road Closed	10.000	20.000		
2.0	R11-4	Road Closed To Thru Traffic	12.500	25.000		
			TOTAL	420.000		

CONSTRUCTION METHOD AND SEQUENCING

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- 3. INSTALL ANY PROPOSED STORM SEWER, AND UNDERDRAIN AS SHOWN ON THE PLANS, AND AS DIRECTED BY THE ENGINEER.
- 4. LOWER ALL STRUCTURE COVERS, INCLUDING VALVE AND MONUMENT BOXES
- 5. PERFORM ALL CONCRETE WORK, INCLUDING RESTORATION, IN ACCORDANCE WITH THE PLANS, AND AS DIRECTED BY THE ENGINEER.
- 6. MILL 3 INCHES OF BITUMINOUS MATERIAL FROM EXISTING ROADWAY. THIS MAY INCLUDE GRANULAR ROAD BASE MATERIAL. DEPTH TO BE DETERMINED BY THE ENGINEER. PROOF ROLL WITH FULL TRUCK
- 7. PERFORM UNDERCUTS AND/OR BASE REPAIRS AS DIRECTED BY THE ENGINEE
- 8. GRADE, SHAPE, AND RE—COMPACT THE EXISTING ROAD BASE AS REQUIRED, AND AS DIRECTED BY THE ENGINEER.
- 9. PAVE 2 INCHES OF THE BITUMINOUS MIX AS SPECIFIED OR DIRECTED, AS THE LEVELING COURSE, IN ONE LIFT.
- 10. ADJUST ALL STRUCTURE COVERS, MONUMENT BOXES, AND VALVE BOXES TO THEIR FINISHED ELEVATIONS.
- 11. PAVE 1 INCH OF THE BITUMINOUS MIX AS SPECIFIED OR DIRECTED, AS THE WEARING COURSE, IN ONE LIFT.
- 12. COMPLETE ALL PAVEMENT MARKINGS IN ACCORDANCE WITH THE PLANS, AND AS DIRECTED BY THE ENGINEER.
- 13. COMPLETE ALL MISCELLANEOUS CONSTRUCTION INCLUDING ALL CLEAN-UP AND FINAL RESTORATION.
- 14. REMOVE ALL TRAFFIC CONTROL DEVICES. REMOVE MISS DIG FLAGS.

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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03/05/2020 GS,CE DAD Know what's below Call before you

LIC SERVICES
ST HURON STREET
O. BOX 8647
BDOR, MI 48107-8647
734-794-6410
ww.a2gov.org

REV.



N PROJECT - 2020

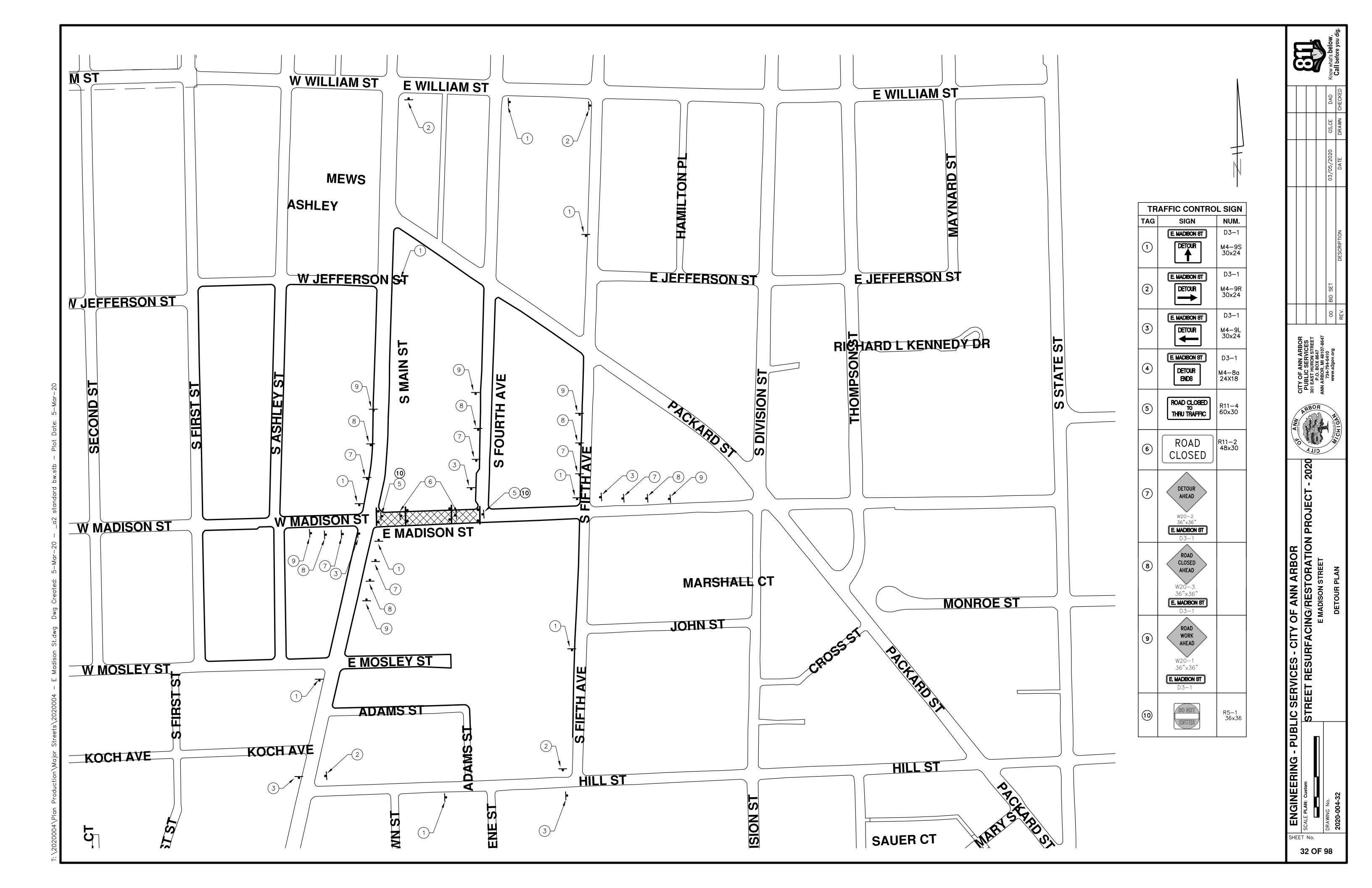
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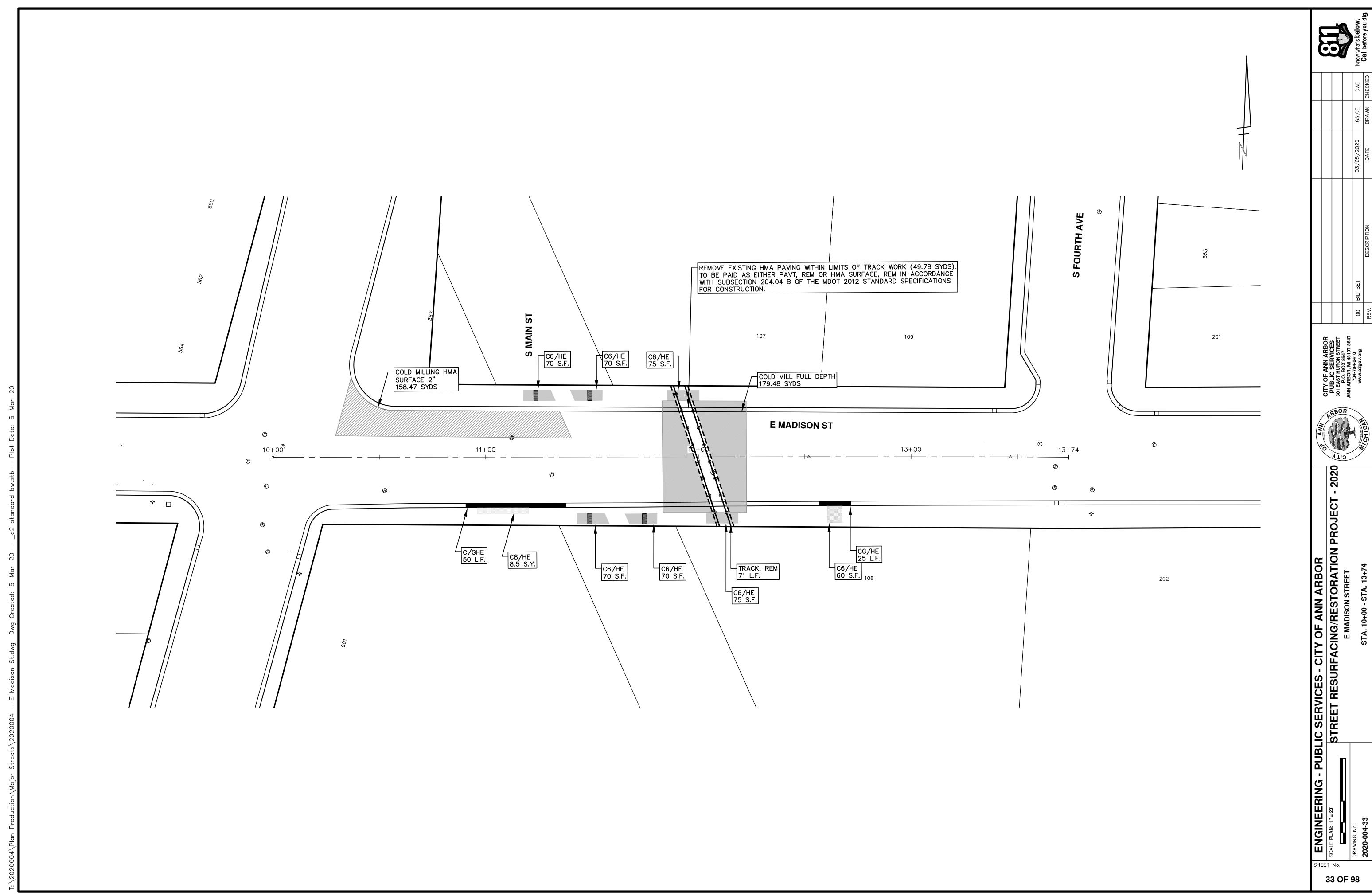
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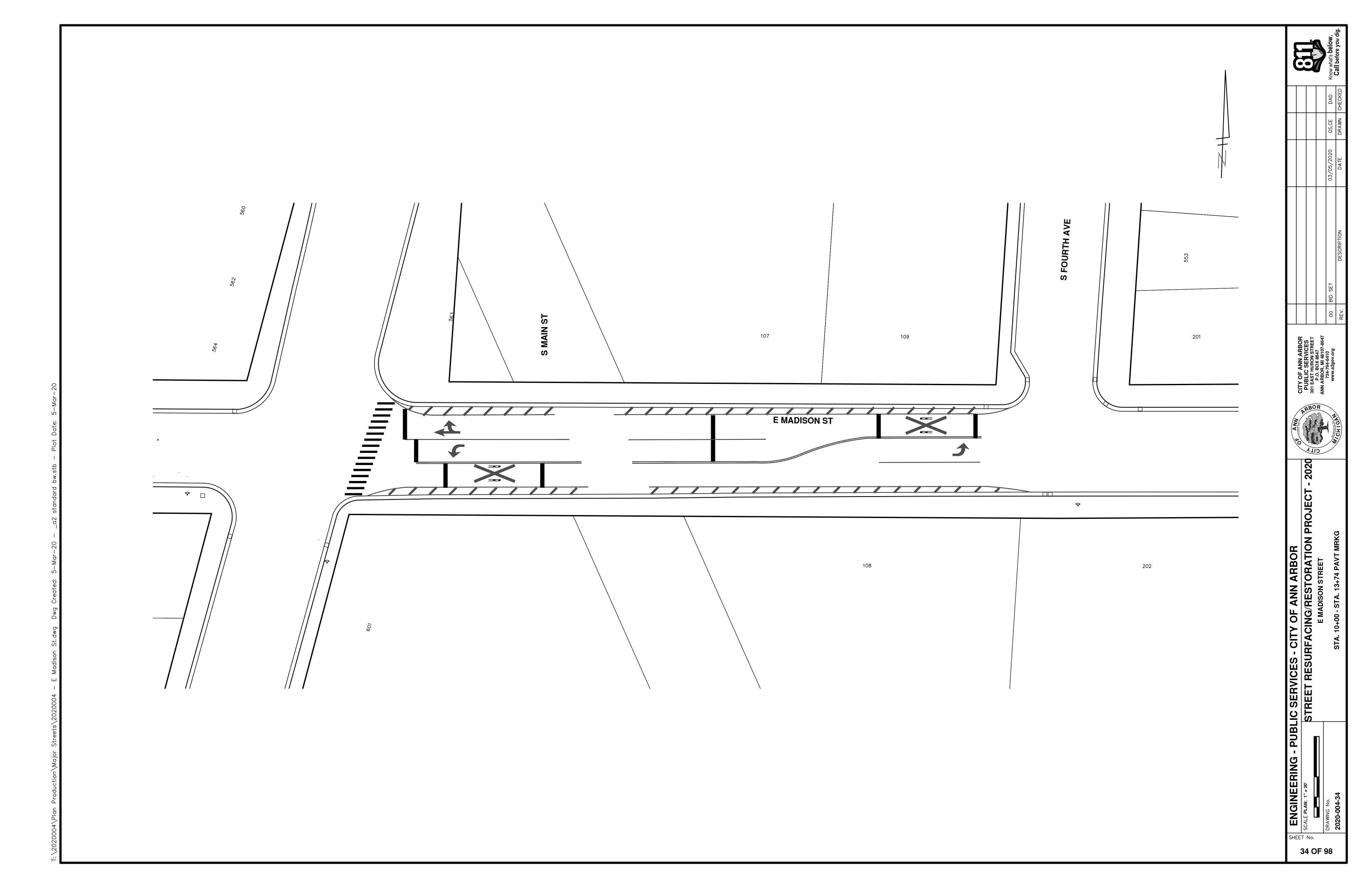
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INEERING - PUB

SCALE









CITY OF ANN ARBOR ENGINEERING

PROJECT LOCATION: W WASHINGTON STREET

ITB No. BID NO FILE No. 2020-004

QUANTITIES					
Item Code	Item Description	Unit	Quantity		
2047001	_Exploratory Excavation, Vertical	Ft	4.000		
2057011	_Grading, Sidewalk Ramp	Syd	35.560		
2057011	_Machine Grading, Special	Syd	2,865.280		
2080020	Erosion Control, Inlet Protection, Fabric Drop	Ea	10.000		
5010002	Cold Milling HMA Surface	Syd	2,866.000		
5010056	HMA, 5E1	Ton	299.010		
5010061	HMA Approach	Ton	16.180		
8030030	Curb Ramp Opening, Conc	Ft	56.000		
8037001	_Detectable Warning Surface, Modified	Ft	40.000		
8037010	_Sidewalk Ramp, Conc, 6 inch, Modified	Sft	320.000		
8037010	_Sidewalk, Conc or Clay Brick Pavers, Rem and Reinstall	Sft	30.000		
8110079	Pavt Mrkg, Ovly Cold Plastic, Sharrow Symbol	Ea	1.000		
8110196	Pavt Mrkg, Thermopl, 4 inch, Yellow	Ft	1,126.000		
8110214	Pavt Mrkg, Thermopl, 12 inch, Crosswalk	Ft	272.000		
8110218	Pavt Mrkg, Thermopl, 24 inch, Stop Bar	Ft	45.000		
8117001	_Pavt Mrkg, Thermopl, 4 inch, Parking Sym, White	Ft	31.000		
8120250	Plastic Drum, High Intensity, Furn	Ea	20.000		
8120251	Plastic Drum, High Intensity, Oper	Ea	20.000		
8120310	Sign Cover	Ea	4.000		
8120350	Sign, Type B, Temp, Prismatic, Furn	Sft	214.000		
8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	214.000		
8120352	Sign, Type B, Temp, Prismatic, Special, Furn	Sft	116.000		
8120353	Sign, Type B, Temp, Prismatic, Special, Oper	Sft	116.000		
8127050	_Pedestrian Type II Barricade, Temp	Ea	4.000		
8167011	_Slope Restoration	Syd	17.890		
8230431	Gate Box, Adj, Case 1	Ea	1.000		
8507050	_HMA Surface, Around Structure Cover, Rem	Ea	17.000		

		QUANTITIES Sign, Type B, Temp, Prismatic & *Sign, Type B, Temp, Prismatic, Special		
Quantity	Sign Code	Description	Area (sft)	Total Area (Sft)
0.0	*D3-1	Street Name Sign	4.000	0.000
0.0	G20-2	End Road Work	4.500	0.000
0.0	W3-5B	Reduce Speed Zone	9.000	0.000
0.0	W4-2R	Lane Ends / Right	9.000	0.000
0.0	W20-1	Road Work Ahead Sign	9.000	0.000
0.0	W20-2	Detour Ahead	9.000	0.000
0.0	W20-3	Road Closed Ahead	9.000	0.000
0.0	W20-5R	Right Lane Closed Ahead	9.000	0.000
0.0	W20-5L	Lane Ends / Left	9.000	0.000
0.0	M4-8a	Detour Ends	3.000	0.000
0.0	M4-9S	Arrow 1 Detour	5.000	0.000
0.0	M4-9R	Right Arrow Detour	5.000	0.000
0.0	M4-9L	Left Arrow Detour	6.000	0.000
0.0	M4-9L	Left Arrow Detour (MOD)	5.000	0.000
0.0	M4-9R	Right Arrow Detour (MOD)	5.000	0.000
0.0	M4-10R	Detour / Right	6.000	0.000
0.0	M4-10L	Detour / Left	6.000	0.000
0.0	R2-1	Speed Limit	7.500	0.000
0.0	R3-1	No Right Turn	4.000	0.000
0.0	R3-2	No Left Turn	4.000	0.000
0.0	R5-1	Do Not Enter	9.000	0.000
0.0	R5-18C	Work Zone Begins	16.000	0.000
0.0	R6-1R	One Way / Right	3.000	0.000
0.0	R6-1L	One Way / Left	3.000	0.000
0.0	R11-2	Road Closed	10.000	0.000
0.0	R11-3a	Road Closed Local Traffic Only	12.500	0.000
0.0	R11-4	Road Closed To Thru Traffic	12.500	0.000
		•	TOTAL	0.000

CONSTRUCTION METHOD AND SEQUENCING

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- 4. LOWER ALL STRUCTURE COVERS, INCLUDING VALVE AND MONUMENT BOXES
- PERFORM ALL CONCRETE WORK, INCLUDING RESTORATION, IN ACCORDANCE WITH THE PLANS, AND A DIRECTED BY THE ENGINEER.
- 6. MILL 3 INCHES OF BITUMINOUS MATERIAL FROM EXISTING ROADWAY. THIS MAY INCLUDE GRANULAR ROAD BASE MATERIAL. DEPTH TO BE DETERMINED BY THE ENGINEER. PROOF ROLL WITH FULL TRUCK
- 7. PERFORM UNDERCUTS AND/OR BASE REPAIRS AS DIRECTED BY THE ENGINEE
- 8. GRADE, SHAPE, AND RE—COMPACT THE EXISTING ROAD BASE AS REQUIRED, AND AS DIRECTED BY T ENGINEER.
- 9. PAVE 2 INCHES OF THE BITUMINOUS MIX AS SPECIFIED OR DIRECTED, AS THE LEVELING COURSE, IN ONE LIFT.
- 10. ADJUST ALL STRUCTURE COVERS, MONUMENT BOXES, AND VALVE BOXES TO THEIR FINISHED ELEVATIONS.
- 11. PAVE 1 INCH OF THE BITUMINOUS MIX AS SPECIFIED OR DIRECTED, AS THE WEARING COURSE, IN ONE LIFT.
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- 13. COMPLETE ALL MISCELLANEOUS CONSTRUCTION INCLUDING ALL CLEAN-UP AND FINAL RESTORATION.
- 14. REMOVE ALL TRAFFIC CONTROL DEVICES. REMOVE MISS DIG FLAGS.

NOTES:

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Know what's below.

Call before you dig.

		DAD	DRAWN CHECKED
		GS,CE	DRAWN
		03/02/5070	DATE
		BID SET	DESCRIPTION
		0	>

CITY OF ANN ARBOR PUBLIC SERVICES 301 EAST HURON STREET P.O. BOX 8647 ANN ARBOR, MI 48107-864' 734-794-6410 www.a2gov.org



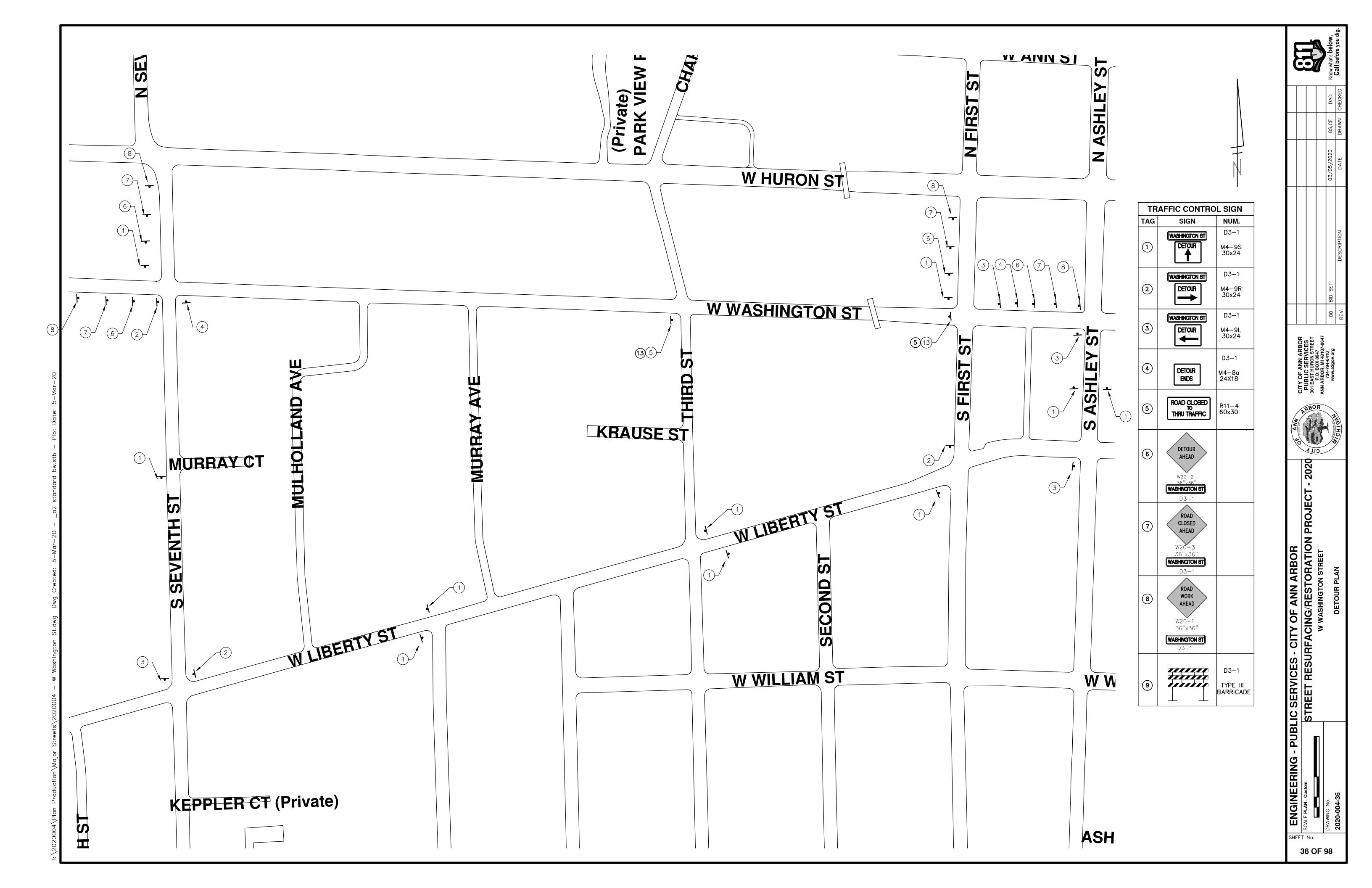
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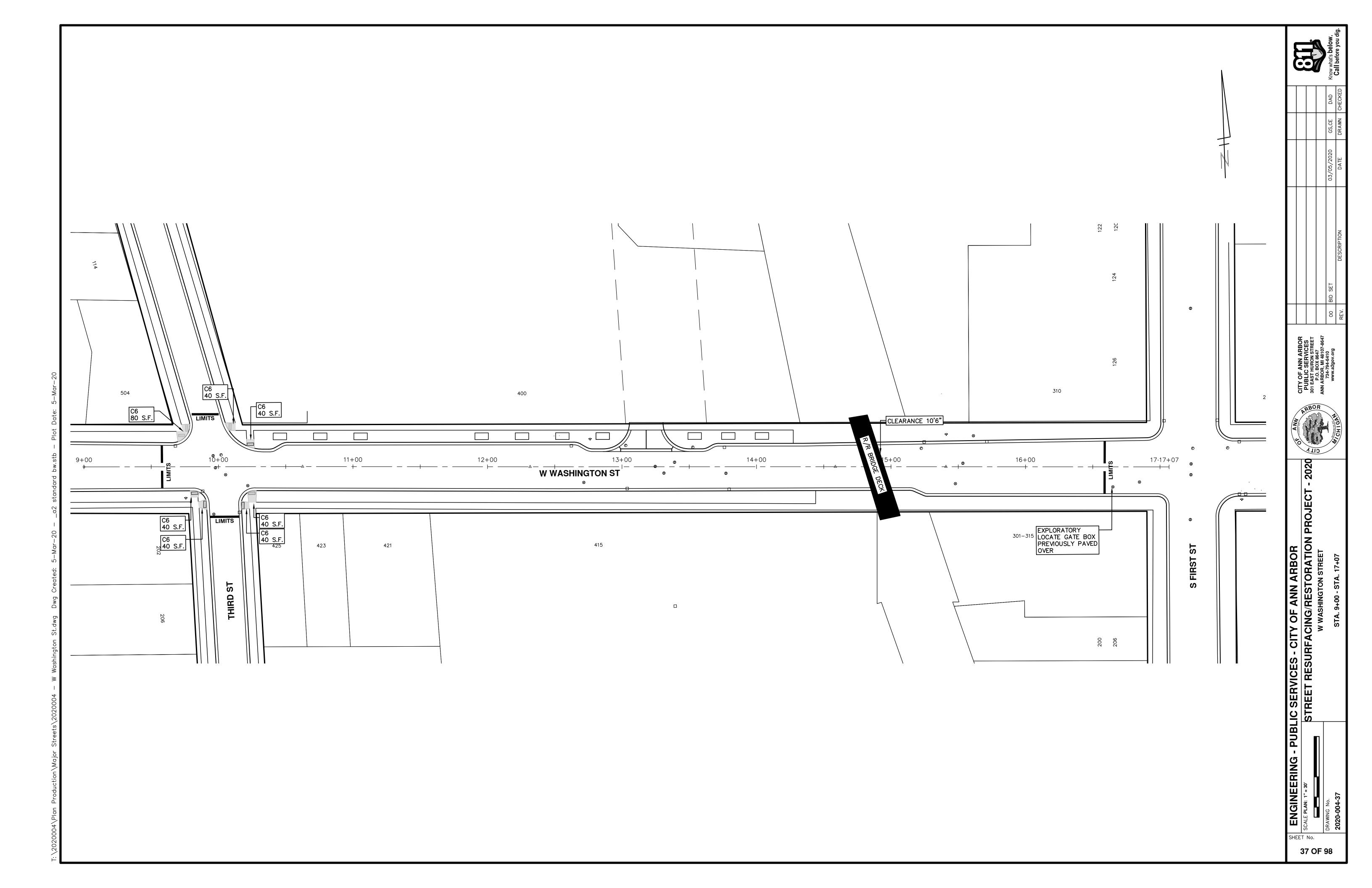
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C SERVICES - CI

NEERING - PUBLIC

SCALE







PROJECT LOCATION: SOUTH MAIN STREET HMA PATH

ITB No. BID NO FILE No. 2020-004

	QUANTITIES				
Item Code	Item Description	Unit	Quantity		
2047011	_Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	Syd	98.330		
2057011	_Grading, Sidewalk	Syd	16.556		
2057011	_Grading, Sidewalk Ramp	Syd	98.222		
2057021	_Subgrade Undercutting, Type IIA	Cyd	504.750		
2080020	Erosion Control, Inlet Protection, Fabric Drop	Ea	27.000		
3057011	_Shared use Path, HMA Base Crushing and Shaping	Syd	5,766.220		
8030030	Curb Ramp Opening, Conc	Ft	77.000		
8037001	_Detectable Warning Surface, Modified	Ft	55.000		
8037010	_Sidewalk Ramp, Conc, 6 inch, Modified	Sft	884.000		
8037010	_Sidewalk, Conc, 4 inch, Modified	Sft	149.000		
8060040	Shared use Path, HMA	Ton	1,110.560		
8067031	_Shared use Path, HMA, Wedging	Ton	333.168		
8120012	Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	Ea	6.000		
8120013	Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	Ea	6.000		
8120250	Plastic Drum, High Intensity, Furn	Ea	65.000		
8120251	Plastic Drum, High Intensity, Oper	Ea	65.000		
8120350	Sign, Type B, Temp, Prismatic, Furn	Sft	99.000		
8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	99.000		
8120352	Sign, Type B, Temp, Prismatic, Special, Furn	Sft	24.000		
8120353	Sign, Type B, Temp, Prismatic, Special, Oper	Sft	24.000		
8127050	_Pedestrian Type II Barricade, Temp	Ea	10.000		
8127050	_Pedestrian Type II Channelizer, Temp	Ea	10.000		
8167011	_Slope Restoration	Syd	3,786.000		

		QUANTITIES		
	,	Sign, Type B, Temp, Prismatic & *Sign, Type B, Temp, Prismatic, Special		
Quantity	Sign Code	Description	Area (sft)	Total Area (Sft)
6.0	*D3-1	Street Name Sign	4.000	24.000
11.0	W20-1	Road Work Ahead Sign	9.000	99.000
	_		TOTAL	123.000

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- 4. LOWER ALL STRUCTURE COVERS, INCLUDING VALVE AND MONUMENT BOXES
- DERFORM ALL CONCRETE WORK, INCLUDING RESTORATION, IN ACCORDANCE WITH THE PLANS, AND A DIRECTED BY THE ENGINEER.
- 6. MILL 3 INCHES OF BITUMINOUS MATERIAL FROM EXISTING ROADWAY. THIS MAY INCLUDE GRANULAR ROAD BASE MATERIAL. DEPTH TO BE DETERMINED BY THE ENGINEER. PROOF ROLL WITH FULL TRUCK
- 7. PERFORM UNDERCUTS AND/OR BASE REPAIRS AS DIRECTED BY THE ENGINEE
- 8. GRADE, SHAPE, AND RE—COMPACT THE EXISTING ROAD BASE AS REQUIRED, AND AS DIRECTED BY THI ENGINEER.
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- 14. REMOVE ALL TRAFFIC CONTROL DEVICES. REMOVE MISS DIG FLAGS.

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		DAD	DRAWN CHECKED
		GS,CE	DRAWN
		03/02/5070	DATE
		BID SET	DESCRIPTION

CITY OF ANN ARBOR PUBLIC SERVICES 301 EAST HURON STREET P.O. BOX 8647 ANN ARBOR, MI 48107-8647 734-794-6410 www.a2gov.org



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/RESTORATION PAIN STREET HIMA PATH

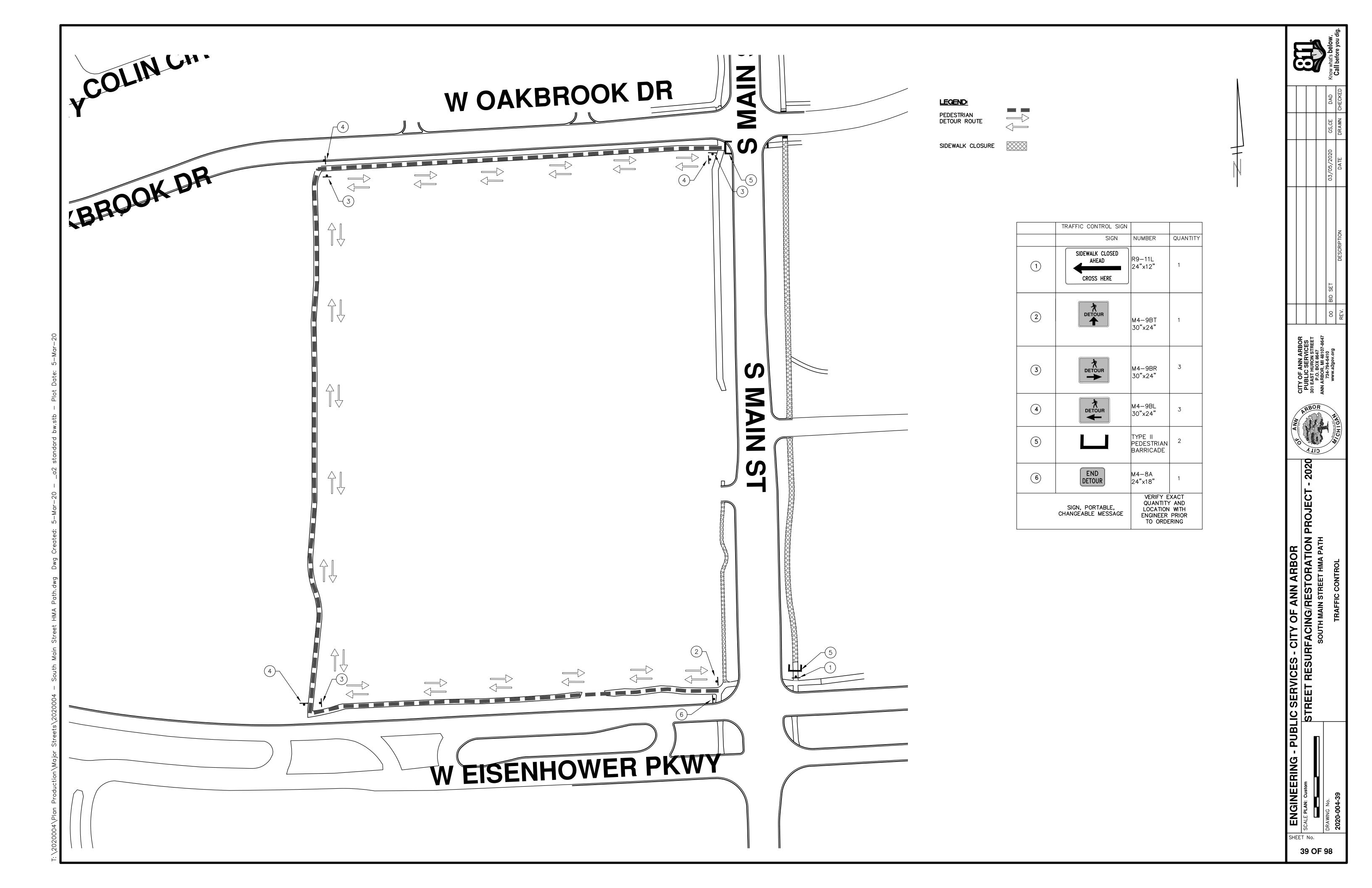
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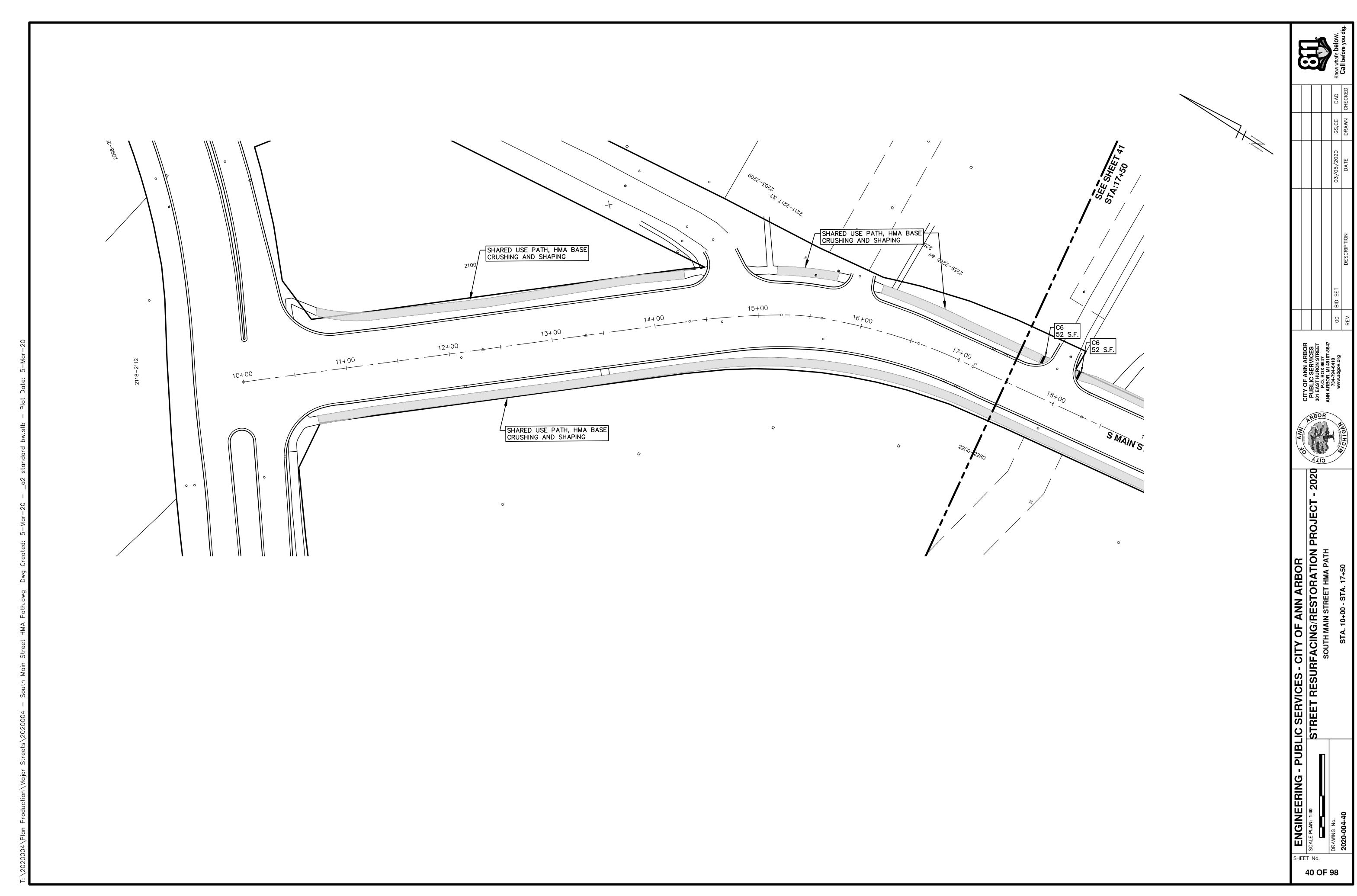
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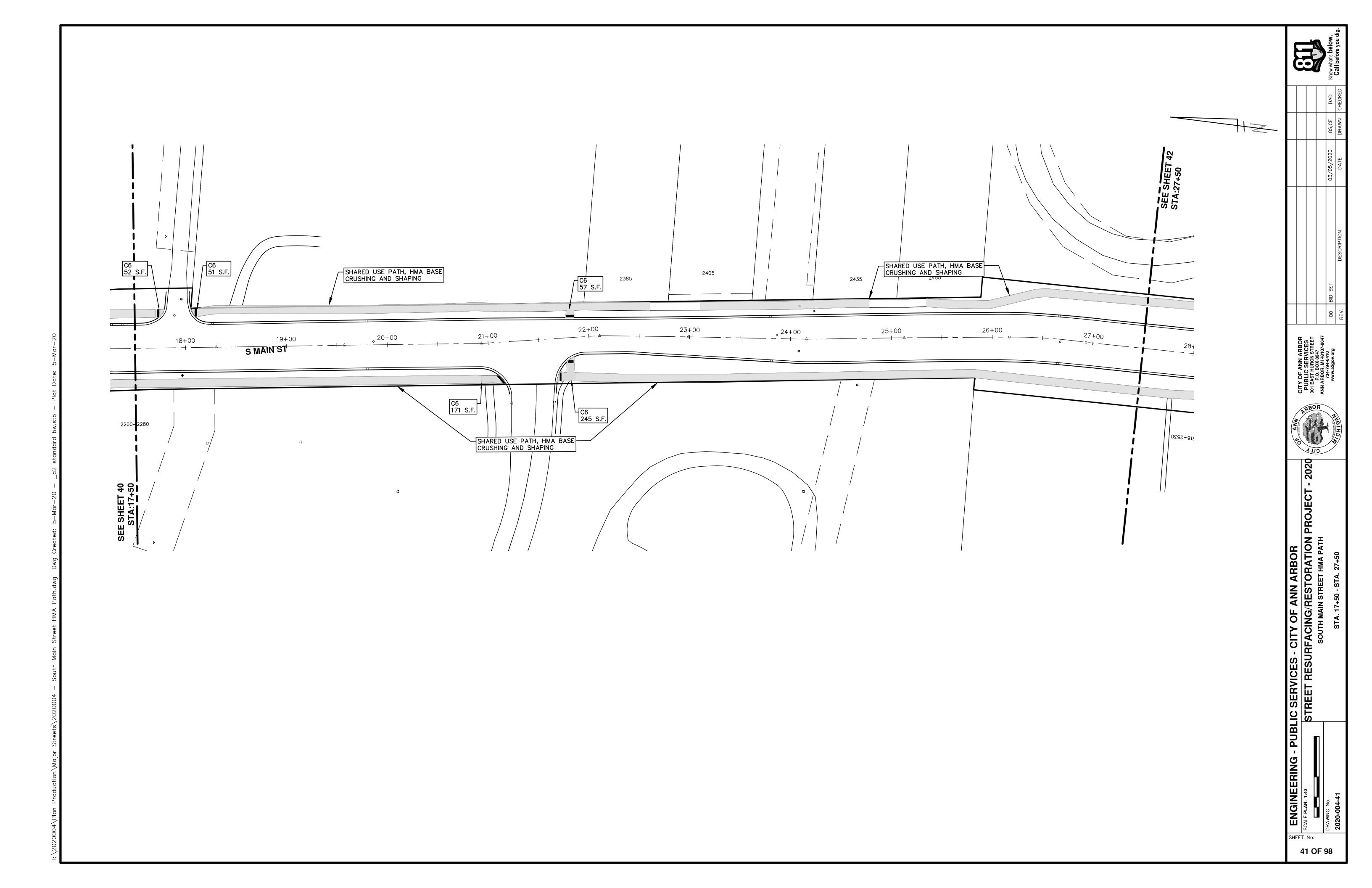
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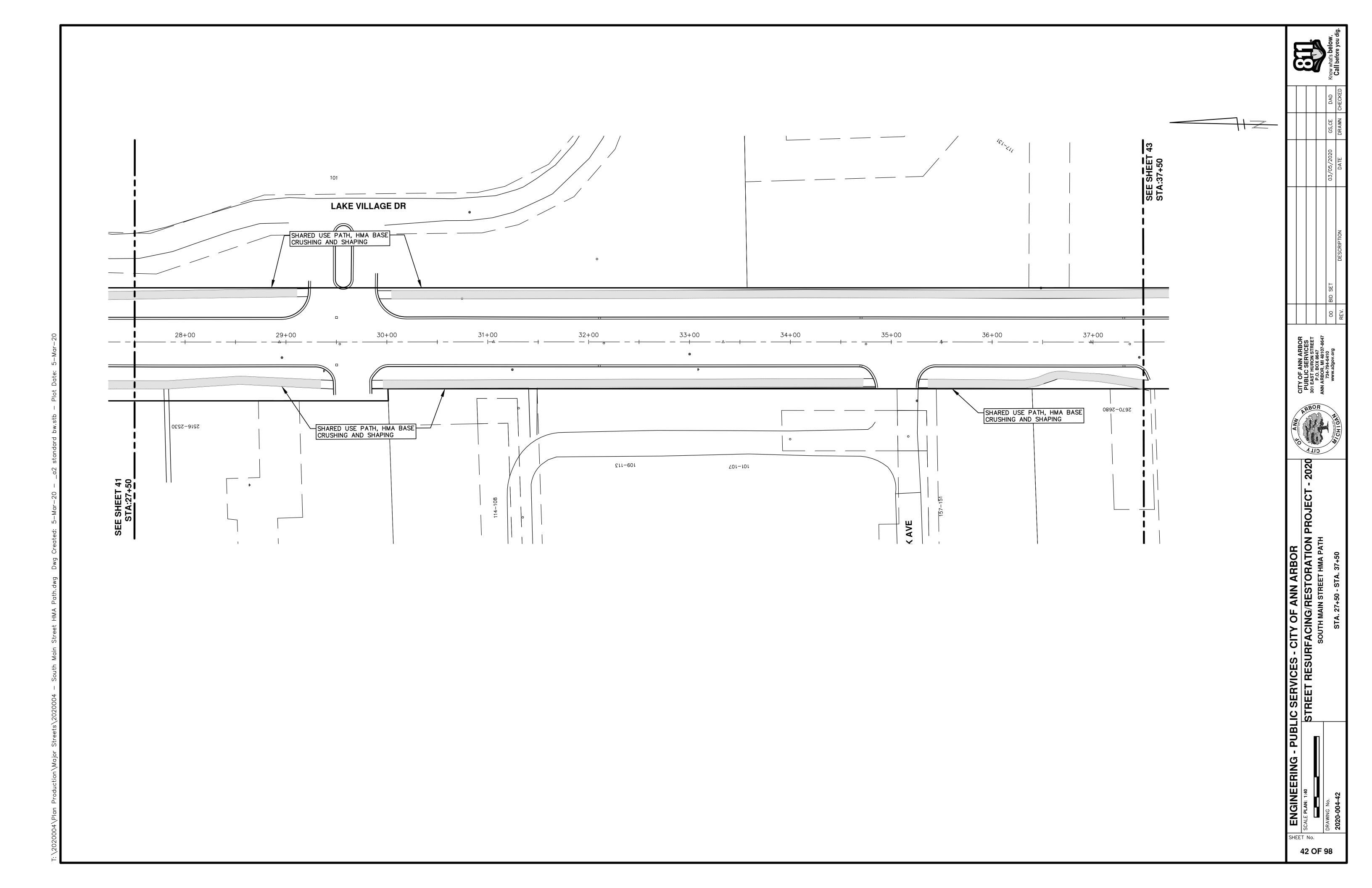
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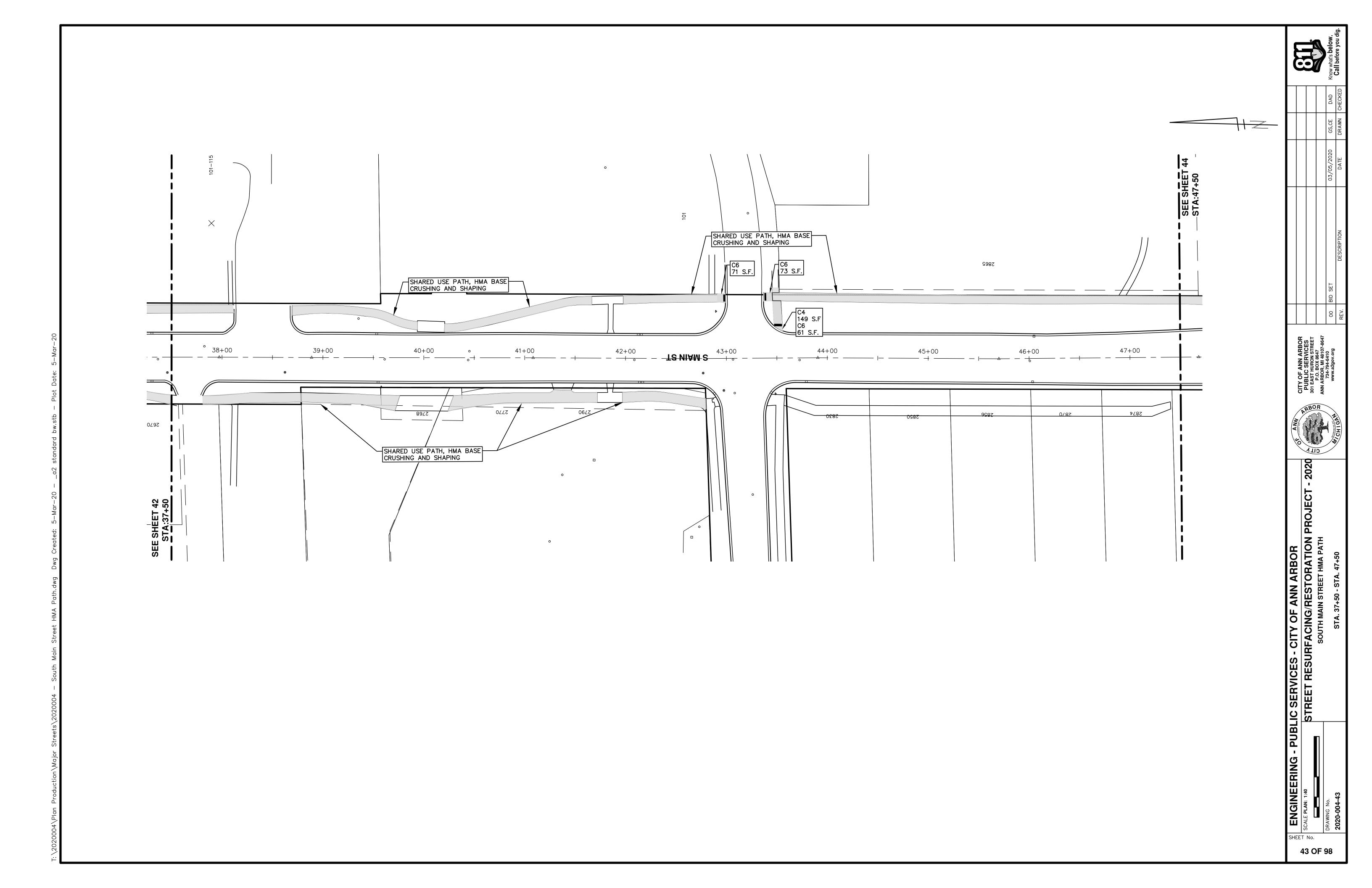
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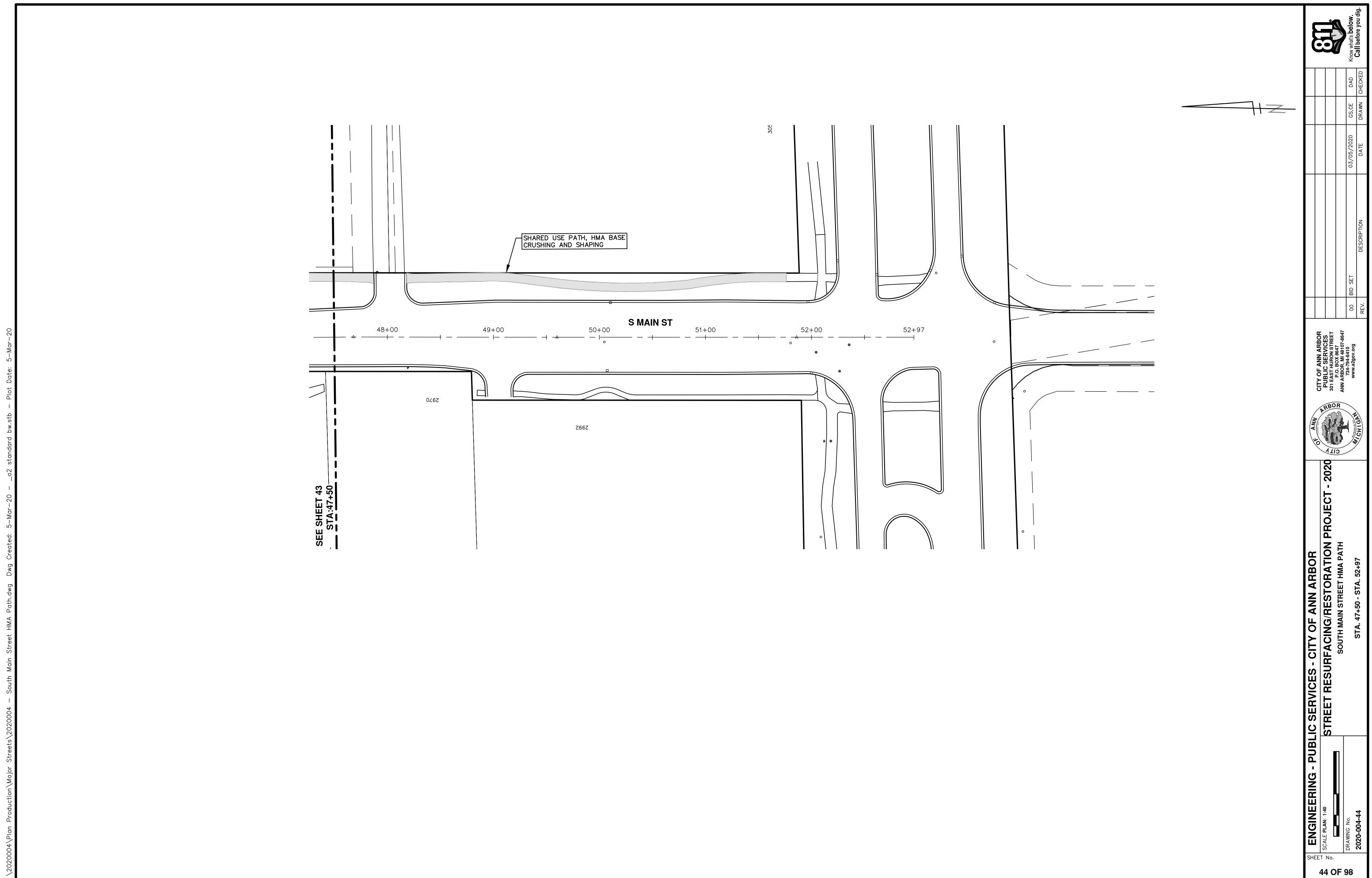














PROJECT LOCATION: WEST OAKBROOK DRIVE

ITB No. BID NO FILE No. 2020-004

	QUANTITIES		
Item Code	Item Description	Unit	Quantity
2047001	_Curb, Gutter, and Curb and Gutter, Any Type, Rem	Ft	282.500
2047011	_Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	Syd	164.770
2057011	_Grading, Sidewalk	Syd	294.608
2057011	_Grading, Sidewalk Ramp	Syd	61.058
2057021	_Subgrade Undercutting, Type IIA	Cyd	525.638
2080020	Erosion Control, Inlet Protection, Fabric Drop	Ea	30.000
6027021	_Flowable Fill	Cyd	7.84
8027001	_Curb and Gutter, Conc, Barrier	Ft	77.000
8030030	Curb Ramp Opening, Conc	Ft	205.500
8037001	_Detectable Warning Surface, Modified	Ft	80.000
8037010	_Sidewalk Ramp, Conc, 6 inch, Modified	Sft	549.520
8037010	_Sidewalk, Conc, 6 inch, Modified	Sft	2,651.470
8060040	Shared use Path, HMA	Ton	1,156.520
8110214	Pavt Mrkg, Thermopl, 12 inch, Crosswalk	Ft	440.000
8110343	Rem Spec Mrkg	Sft	144.000
8120012	Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	Ea	8.000
8120013	Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	Ea	8.000
8120140	Lighted Arrow, Type C, Furn	Ea	1.000
8120141	Lighted Arrow, Type C, Oper	Ea	1.000
8127050	_Pedestrian Type II Barricade, Temp	Ea	10.000
8167011	_Slope Restoration	Syd	4,533.330
8197050	_Handhole Assembly, 12 Inch x 18 Inch	Ea	1.000
8197050	_Handhole Assembly, 17 Inch x 30 Inch	Ea	1.000

		QUANTITIES		
		Sign, Type B, Temp, Prismatic & *Sign, Type B, Temp, Prismatic, Special		
Quantity	Sign Code	Description	Area (sft)	Total Area (Sft)
5.0	*D3-1	Street Name Sign	4.000	20.000
5.0	W20-1	Road Work Ahead Sign	9.000	45.000
			TOTAL	65.000

CONSTRUCTION METHOD AND SEQUENCING

- 9. PAVE 2 INCHES OF THE BITUMINOUS MIX AS SPECIFIED OR DIRECTED, AS THE LEVELING COURSE, IN
- 10. ADJUST ALL STRUCTURE COVERS, MONUMENT BOXES, AND VALVE BOXES TO THEIR FINISHED ELEVATIONS.
- 11. PAVE 1 INCH OF THE BITUMINOUS MIX AS SPECIFIED OR DIRECTED, AS THE WEARING COURSE, IN ONE
- 12. COMPLETE ALL PAVEMENT MARKINGS IN ACCORDANCE WITH THE PLANS, AND AS DIRECTED BY THE
- 13. COMPLETE ALL MISCELLANEOUS CONSTRUCTION INCLUDING ALL CLEAN—UP AND FINAL RESTORATION.
- 14. REMOVE ALL TRAFFIC CONTROL DEVICES. REMOVE MISS DIG FLAGS.

NOTES:

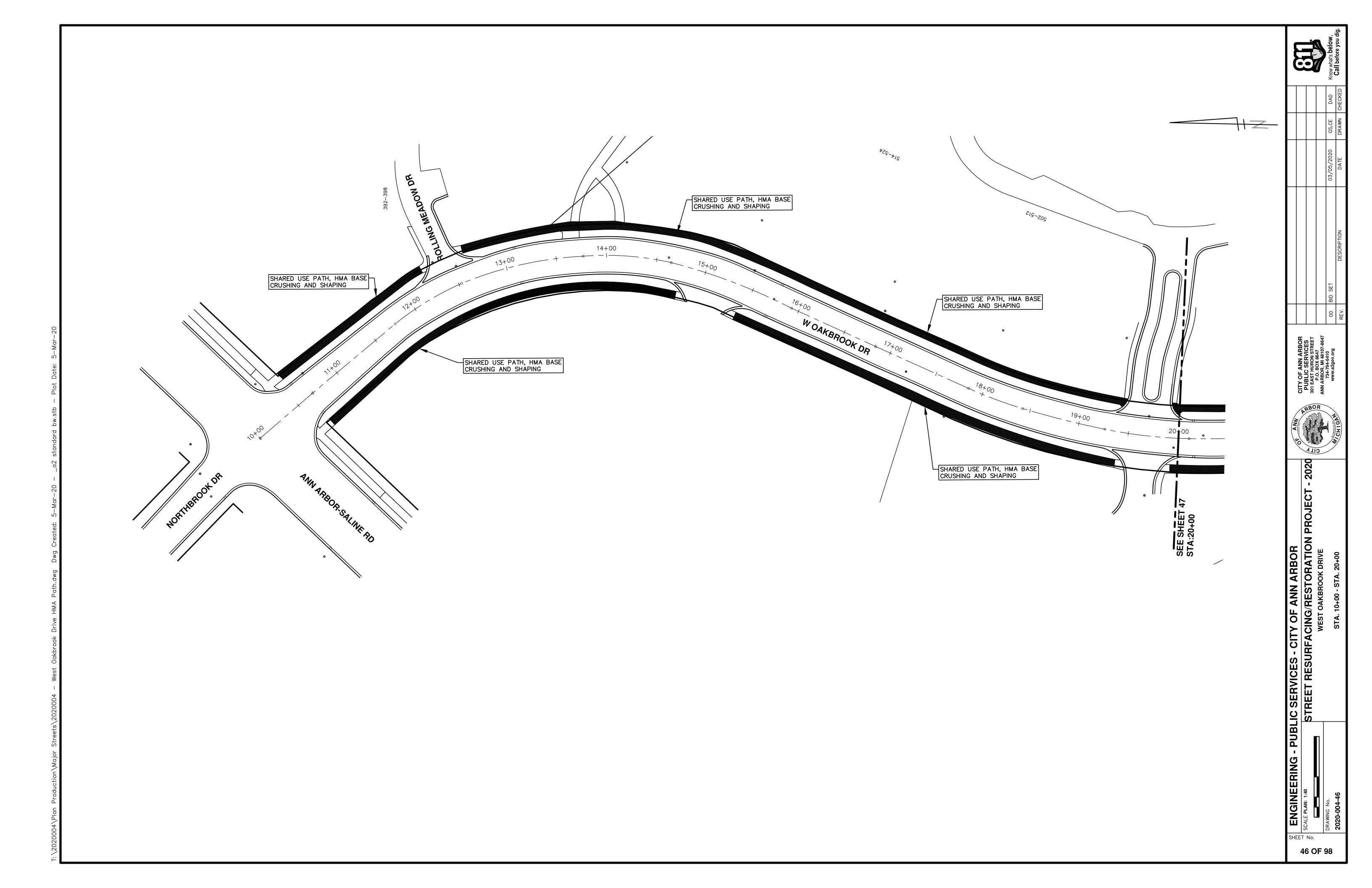
FOR PROTECTION OF UNDERGROUND UTILITIES AND IN CONFORMANCE WITH PUBLIC ACT 174 OF 2013, THE CONTRACTOR SHALL CALL 811 OR 1-800-482-7171 A MINIMUM OF THREE FULL WORKING DAYS, EXCLUDING SATURDAYS, SUNDAYS, AND HOLIDAYS, PRIOR TO BEGINNING EACH EXCAVATION IN AREAS WHERE PUBLIC UTILITIES HAVE NOT BEEN PREVIOUSLY 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.

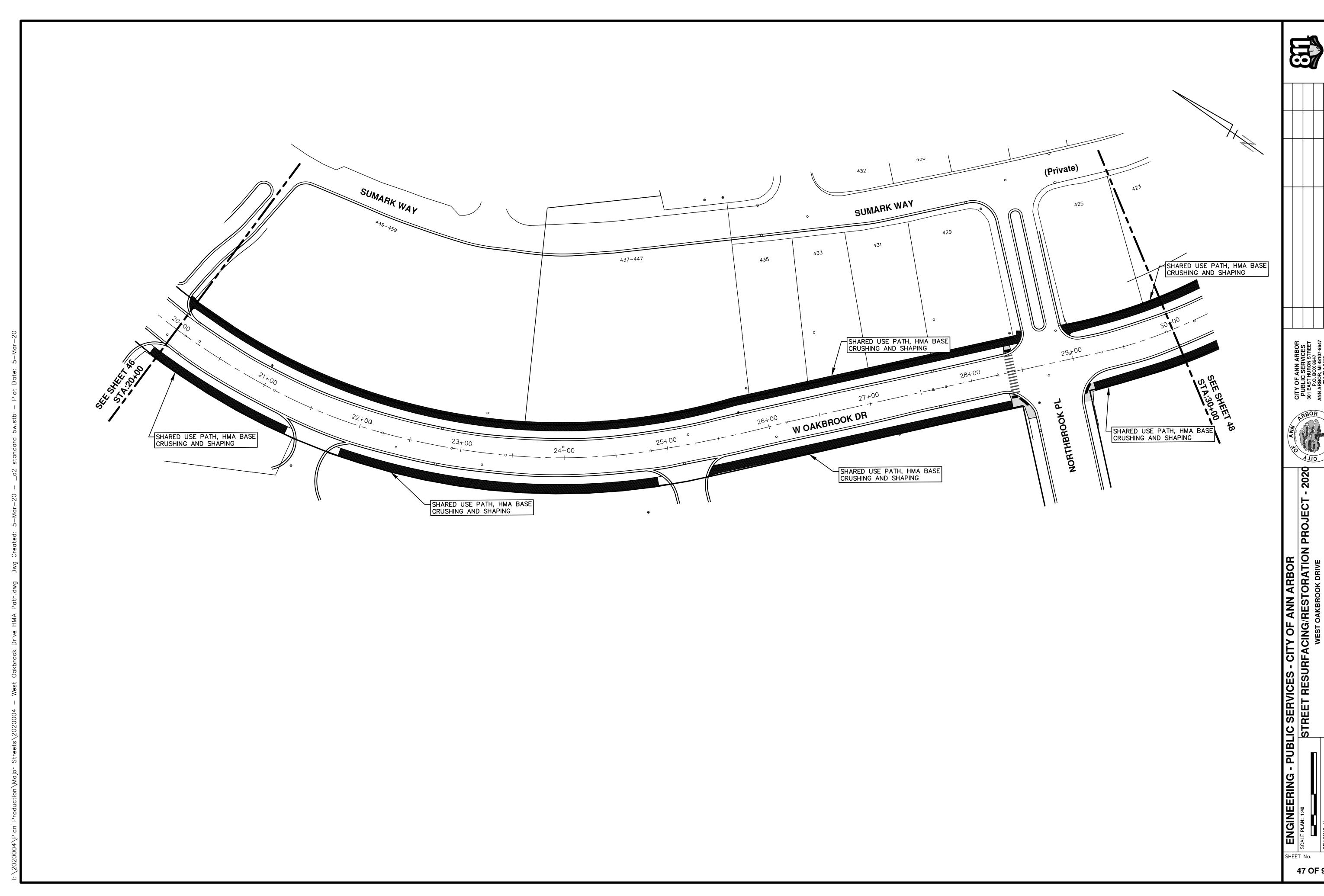
THE UNDERGROUND LOCATIONS SHOWN FOR NATURAL GAS, TELEPHONE, ELECTRICAL POWER, CABLE TV AND FIBER OPTIC LINES ARE APPROXIMATE. THE CITY OF ANN ARBOR ASSUMES NO RESPONSIBILITY FOR THEIR ACCURATE REPRESENTATION IN THIS DRAWING. MISS DIG MUST BE CONTACTED PRIOR TO CONSTRUCTION TO LOCATE THESE

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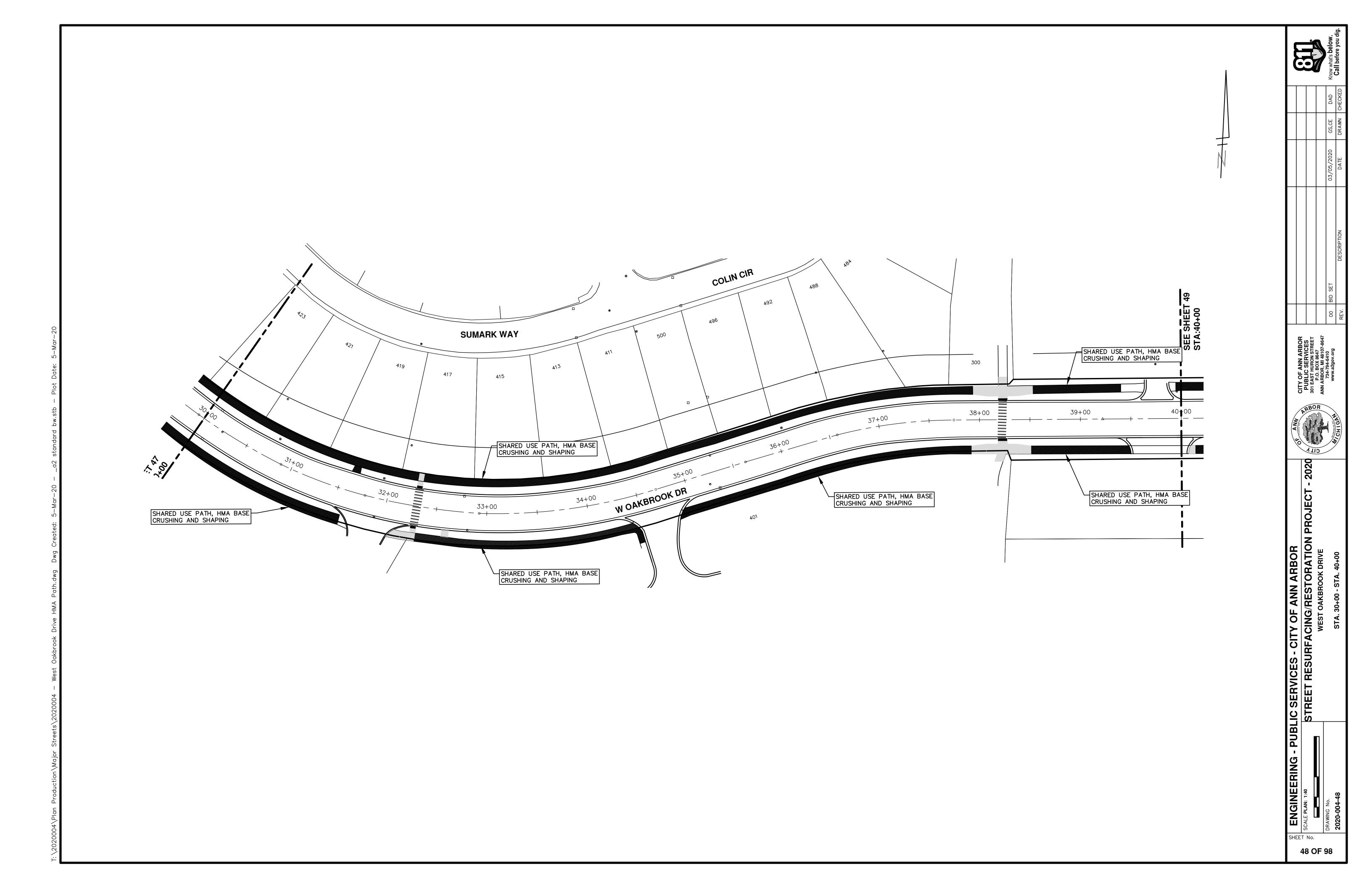
ENGINEERING - PUBLIC SERVICES - CITY OF ANN ARBOR

SCALE PLAN: 1:40

STREET RESURFACING/RESTORATION PROJE

DRAWING No.

STA. 20+00 - STA. 30+00



110 TO 249 OAKBROOK DRIVE SHARED USE PATH, HMA BASE - CRUSHING AND SHAPING 41+00 W OAKBROOK DR SHARED USE PATH, HMA BASE CRUSHING AND SHAPING

ENGINEERING - PUBLIC SERVICES - CITY OF ANN ARBOR

SCALE PLAN: 1:40

STREET RESURFACING/RESTORATION PROJE

DRAWING No.

STA. 40+00 - STA. 45+34



PROJECT LOCATION: AGINCOURT

ITB No. BID NO FILE No. 2020-004

Item Code	QUANTITIES Item Description	Unit	Quantity
2030011	Dr Structure, Rem	Ea	4.000
2030015	Sewer, Rem, Less than 24 inch	Ft	40.000
2047001	_Curb, Gutter, and Curb and Gutter, Any Type, Rem	Ft	293.000
2047011		Syd	207.110
2057011		Syd	100.220
2057011	_Grading, Sidewalk Ramp	Syd	6.667
2057011	_Machine Grading, Special	Syd	1,324.330
2057021	_Subgrade Undercutting, Type IIA	Cyd	113.233
2080020	Erosion Control, Inlet Protection, Fabric Drop	Ea	6.000
4020987	Sewer, Cl IV, 12 inch, Tr Det B	Ft	40.000
4030200	Dr Structure, 24 inch dia	Ea	4.000
4037050	_Dr Structure Cover, Type K, Modified	Ea	4.000
4037050	_Dr Structure, Adj, Case 1, Modified	Ea	4.000
4047001	_Underdrain, Subgrade, 6 inch, Special	Ft	80.000
5010002	Cold Milling HMA Surface	Syd	1,192.000
5010005	HMA Surface, Rem	Syd	33.000
5010703	HMA, LVSP	Ton	160.000
5017011	_Cold Milling for Concrete Curb and Gutter Reveal	Syd	132.500
5017031	_HMA, Wedging, 36A	Ton	8.000
6027021	_Flowable Fill	Cyd	8.139
8017011	_Driveway, Nonreinf Conc, 6 inch, Modified	Syd	100.220
8027001	_Curb and Gutter, Conc, Barrier	Ft	73.000
8027001	_Driveway Opening, Conc, Det M, Modified	Ft	213.000
8030030	Curb Ramp Opening, Conc	Ft	14.000
8037001	_Detectable Warning Surface, Modified	Ft	10.000
8037010	_Sidewalk Ramp, Conc, 6 inch, Modified	Sft	60.000
8120012	Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	Ea	2.000
8120013	Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	Ea	2.000
8120250	Plastic Drum, High Intensity, Furn	Ea	17.580
8120251	Plastic Drum, High Intensity, Oper	Ea	17.580
8120350	Sign, Type B, Temp, Prismatic, Furn	Sft	31.000
8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	31.000
8120352	Sign, Type B, Temp, Prismatic, Special, Furn	Sft	8.000
8120353	Sign, Type B, Temp, Prismatic, Special, Oper	Sft	8.000
8127050	_Pedestrian Type II Barricade, Temp	Ea	2.000
8127050	_Temporary No Parking Sign	Ea	10.400
8167011	_Slope Restoration	Syd	54.440

	QUANTITIES Sign, Type B, Temp, Prismatic & *Sign, Type B, Temp, Prismatic, Special					
Quantity	Sign Code	Description	Area (sft)	Total Area (Sft)		
2.0	*D3-1	Street Name Sign	4.000	8.000		
2.0	W20-1	Road Work Ahead Sign	9.000	18.000		
1.0	R11-3a	Road Closed Local Traffic Only	12.500	13.000		
			TOTAL	39.000		

CONSTRUCTION METHOD AND SEQUENCING

- 1. THE WORK TO BE COMPLETED ON THIS STREET SHALL INCLUDE, BUT NOT BE LIMITED TO THE FOLLOWING ITEMS. THE ORDER OF CONSTRUCTION SHALL BE AS GIVEN UNLESS OTHERWISE AUTHORIZOR DIRECTED BY THE ENGINEER
- 2. IMPLEMENT TRAFFIC MAINTENANCE, AND SOIL EROSION CONTROLS IN ACCORDANCE WITH THE PLANS AND AS DIRECTED BY THE ENGINEER.
- INSTALL ANY PROPOSED STORM SEWER, AND UNDERDRAIN AS SHOWN ON THE PLANS, AND AS DIRECTED BY THE ENGINEER.
- 4. LOWER ALL STRUCTURE COVERS, INCLUDING VALVE AND MONUMENT BOXES
- 5. PERFORM ALL CONCRETE WORK, INCLUDING RESTORATION, IN ACCORDANCE WITH THE PLANS, AND AS DIRECTED BY THE ENGINEER.
- 6. MILL 3 INCHES OF BITUMINOUS MATERIAL FROM EXISTING ROADWAY. THIS MAY INCLUDE GRANULAR ROAD BASE MATERIAL. DEPTH TO BE DETERMINED BY THE ENGINEER. PROOF ROLL WITH FULL TRUCK
- 7. PERFORM UNDERCUTS AND/OR BASE REPAIRS AS DIRECTED BY THE ENGINEE
- 8. GRADE, SHAPE, AND RE-COMPACT THE EXISTING ROAD BASE AS REQUIRED, AND AS DIRECTED BY THE ENGINEER.
- 9. PAVE 2 INCHES OF THE BITUMINOUS MIX AS SPECIFIED OR DIRECTED, AS THE LEVELING COURSE, IN ONE LIFT.
- 10. ADJUST ALL STRUCTURE COVERS, MONUMENT BOXES, AND VALVE BOXES TO THEIR FINISHED ELEVATIONS.
- 11. PAVE 1 INCH OF THE BITUMINOUS MIX AS SPECIFIED OR DIRECTED, AS THE WEARING COURSE, IN ONE LIFT.
- 12. COMPLETE ALL PAVEMENT MARKINGS IN ACCORDANCE WITH THE PLANS, AND AS DIRECTED BY THE ENGINEER.
- 13. COMPLETE ALL MISCELLANEOUS CONSTRUCTION INCLUDING ALL CLEAN-UP AND FINAL RESTORATION.
- 14. REMOVE ALL TRAFFIC CONTROL DEVICES. REMOVE MISS DIG FLAGS.

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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DATE DRAWN CHECKED Call before you

CITY OF ANN ARBOR PUBLIC SERVICES 301 EAST HURON STREET P.O. BOX 8647 ANN ARBOR, MI 48107-8647 734-794-6410 www.a2gov.org



SJECT - 2020

G/RESTORATION PR

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LIC SERVICES - (STREET RESUR

ERING - PUBLIC SI STRE

DRAWING No.

NO.



PROJECT LOCATION: BRAMPTON CT

ITB No. BID NO FILE No. 2020-004

14 0	QUANTITIES	11.14	0 - 414
Item Code	Item Description	Unit	Quantity
2047001	_Curb, Gutter, and Curb and Gutter, Any Type, Rem	Ft	243.000
2047011	_Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	Syd	75.330
2057011	_Grading, Driveway Approach	Syd	80.890
2057011	_Grading, Sidewalk	Syd	5.556
2057011	_Grading, Sidewalk Ramp	Syd	4.44
2057011	_Machine Grading, Special	Syd	1,034.220
2057021	_Subgrade Undercutting, Type IIA	Cyd	80.88
2080020	Erosion Control, Inlet Protection, Fabric Drop	Ea	2.00
4037050	_Dr Structure Cover, Type B, Modified	Ea	2.00
4037050	_Dr Structure Cover, Type K, Modified	Ea	2.00
4037050	_Dr Structure, Adj, Case 1, Modified	Ea	5.00
4037050	_Dr Structure, Temp Lowering, Modified	Ea	4.00
5010002	Cold Milling HMA Surface	Syd	1,035.00
5010005	HMA Surface, Rem	Syd	27.00
5010703	HMA, LVSP	Ton	240.00
6027021	_Flowable Fill	Cyd	6.75
8017011	_Driveway, Nonreinf Conc, 6 inch, Modified	Syd	80.89
8027001	_Curb and Gutter, Conc, Barrier	Ft	44.00
8027001	_Driveway Opening, Conc, Det M, Modified	Ft	198.00
8030030	Curb Ramp Opening, Conc	Ft	7.00
8037001	_Detectable Warning Surface, Modified	Ft	5.00
8037010	_Sidewalk Ramp, Conc, 6 inch, Modified	Sft	40.00
8037010	_Sidewalk, Conc, 4 inch, Modified	Sft	50.00
8110049	Pavt Mrkg, Ovly Cold Plastic, Direction Arrow Sym, Bike	Ea	2.00
8110058	Pavt Mrkg, Ovly Cold Plastic, Bike, Small Sym	Ea	2.00
8110079	Pavt Mrkg, Ovly Cold Plastic, Sharrow Symbol	Ea	1.00
8110196	Pavt Mrkg, Thermopl, 4 inch, Yellow	Ft	820.00
8110198	Pavt Mrkg, Thermopl, 6 inch, White	Ft	760.00
8110214	Pavt Mrkg, Thermopl, 12 inch, Crosswalk	Ft	96.00
8110218	Pavt Mrkg, Thermopl, 24 inch, Stop Bar	Ft	16.00
8120012	Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	Ea	2.00
8120013	Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	Ea	2.00
8120250	Plastic Drum, High Intensity, Furn	Ea	15.00
8120251	Plastic Drum, High Intensity, Oper	Ea	15.00
8120350	Sign, Type B, Temp, Prismatic, Furn	Sft	31.00
8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	31.00
8120352	Sign, Type B, Temp, Prismatic, Special, Furn	Sft	8.00
8120353	Sign, Type B, Temp, Prismatic, Special, Oper	Sft	8.00
8127050	Pedestrian Type II Barricade, Temp	Ea	2.00
8127050	Temporary No Parking Sign	Ea	8.000
8167011	Slope Restoration	Syd	97.200
8230431	Gate Box, Adj, Case 1	Ea	1.000

		QUANTITIES		
		Sign, Type B, Temp, Prismatic & *Sign, Type B, Temp, Prismatic, Special		
Quantity	Sign Code	Description	Area (sft)	Total Area (Sft)
2.0	*D3-1	Street Name Sign	4.000	8.000
2.0	W20-1	Road Work Ahead Sign	9.000	18.000
1.0	R11-3a	Road Closed Local Traffic Only	12.500	13.000
			TOTAL	39.000

CONSTRUCTION METHOD AND SEQUENCING

- INSTALL ANY PROPOSED STORM SEWER, AND UNDERDRAIN AS SHOWN ON THE PLANS, AND AS
- STRUCTURE COVERS, INCLUDING VALVE AND MONUMENT BOXES

- GRADE, SHAPE, AND RE-COMPACT THE EXISTING ROAD BASE AS REQUIRED, AND AS DIRECTED BY THE
- 9. PAVE 2 INCHES OF THE BITUMINOUS MIX AS SPECIFIED OR DIRECTED, AS THE LEVELING COURSE, IN
- 10. ADJUST ALL STRUCTURE COVERS, MONUMENT BOXES, AND VALVE BOXES TO THEIR FINISHED ELEVATIONS.
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PROJECT LOCATION: COVINGTON ST

ST No. BID NO FILE No. 2020-004

	QUANTITIES		
Item Code	Item Description	Unit	Quantity
2030011	Dr Structure, Rem	Ea	13.000
2030015	Sewer, Rem, Less than 24 inch	Ft	130.000
2047001	_Curb, Gutter, and Curb and Gutter, Any Type, Rem	Ft	278.000
2047011	_Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	Syd	36.330
2057011	_Grading, Sidewalk	Syd	8.333
2057011	_Grading, Sidewalk Ramp	Syd	28.000
2080020	Erosion Control, Inlet Protection, Fabric Drop	Ea	20.000
4020987	Sewer, Cl IV, 12 inch, Tr Det B	Ft	130.000
4030200	Dr Structure, 24 inch dia	Ea	13.000
4037050	_Dr Structure Cover, Type K, Modified	Ea	13.000
4037050	_Dr Structure, Adj, Case 1, Modified	Ea	13.000
4047001	_Underdrain, Subgrade, 6 inch, Special	Ft	260.000
5010002	Cold Milling HMA Surface	Syd	8,300.000
5010005	HMA Surface, Rem	Syd	30.889
5010061	HMA Approach	Ton	20.000
5010703	HMA, LVSP	Ton	960.000
6027021	_Flowable Fill	Cyd	7.722
8027001	_Curb and Gutter, Conc, Barrier	Ft	222.000
8030030	Curb Ramp Opening, Conc	Ft	49.000
8037001	_Detectable Warning Surface, Modified	Ft	35.000
8037010	_Sidewalk Ramp, Conc, 6 inch, Modified	Sft	252.000
8037010	_Sidewalk, Conc, 4 inch, Modified	Sft	75.000
8110197	Pavt Mrkg, Thermopl, 6 inch, Crosswalk	Ft	267.000
8110218	Pavt Mrkg, Thermopl, 24 inch, Stop Bar	Ft	62.000
8120012	Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	Ea	14.000
8120013	Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	Ea	14.000
8120250	Plastic Drum, High Intensity, Furn	Ea	15.000
8120251	Plastic Drum, High Intensity, Oper	Ea	15.000
8120350	Sign, Type B, Temp, Prismatic, Furn	Sft	126.000
8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	126.000
8120352	Sign, Type B, Temp, Prismatic, Special, Furn	Sft	28.000
8120353	Sign, Type B, Temp, Prismatic, Special, Oper	Sft	28.000
8127050	_Pedestrian Type II Barricade, Temp	Ea	8.000
8127050	_Temporary No Parking Sign	Ea	69.543
8167011	_Slope Restoration	Syd	47.550

		QUANTITIES			
	Sign, Type B, Temp, Prismatic & *Sign, Type B, Temp, Prismatic, Special				
Quantity	Sign Code	Description	Area (sft)	Total Area (Sft)	
7.0	*D3-1	Street Name Sign	4.000	28.000	
7.0	W20-1	Road Work Ahead Sign	9.000	63.000	
5.0	R11-3a	Road Closed Local Traffic Only	12.500	63.000	
			TOTAL	154.000	

CONSTRUCTION METHOD AND SEQUENCING

- 1. THE WORK TO BE COMPLETED ON THIS STREET SHALL INCLUDE, BUT NOT BE LIMITED TO THE FOLLOWING ITEMS. THE ORDER OF CONSTRUCTION SHALL BE AS GIVEN UNLESS OTHERWISE AUTHORIZE OR DIRECTED BY THE ENGINEER
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- 3. INSTALL ANY PROPOSED STORM SEWER, AND UNDERDRAIN AS SHOWN ON THE PLANS, AND DIRECTED BY THE ENGINEER.
- 4. LOWER ALL STRUCTURE COVERS, INCLUDING VALVE AND MONUMENT BOXES
- 5. PERFORM ALL CONCRETE WORK, INCLUDING RESTORATION, IN ACCORDANCE WITH THE PLANS, AND AS DIRECTED BY THE ENGINEER.
- 6. MILL 3 INCHES OF BITUMINOUS MATERIAL FROM EXISTING ROADWAY. THIS MAY INCLUDE GRANULAR ROAD BASE MATERIAL. DEPTH TO BE DETERMINED BY THE ENGINEER. PROOF ROLL WITH FULL TRUCK
- 7. PERFORM UNDERCUTS AND/OR BASE REPAIRS AS DIRECTED BY THE ENGINEE
- 8. GRADE, SHAPE, AND RE—COMPACT THE EXISTING ROAD BASE AS REQUIRED, AND AS DIRECTED BY T ENGINEER.
- 9. PAVE 2 INCHES OF THE BITUMINOUS MIX AS SPECIFIED OR DIRECTED, AS THE LEVELING COURSE, IN ONE LIFT.
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- 14. REMOVE ALL TRAFFIC CONTROL DEVICES. REMOVE MISS DIG FLAGS.

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03/05/2020 GS,CE DAD Know what's **be**DATE DRAWN CHECKED

PUBLIC SERVICES
PUBLIC SERVICES
01 EAST HURON STREET
P.O. BOX 8647
NN ARBOR, MI 48107-8647
734-794-6410
www.a2gov.org



ROJECT - 2020

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BRAMPTON CT & COVINGTO

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BLIC SERVICES
STREET RESU

RING - PUBLIC SE STRE

ENGINEERING.

DRAWING No.



PROJECT LOCATION: AMESBURY DR

ITB No. BID NO FILE No. 2020-004

	QUANTITIES		
Item Code	Item Description	Unit	Quantity
2047001	_Curb, Gutter, and Curb and Gutter, Any Type, Rem	Ft	26.000
2047011	_Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	Syd	14.660
2057011	_Grading, Driveway Approach	Syd	14.660
2080020	Erosion Control, Inlet Protection, Fabric Drop	Ea	3.000
5010002	Cold Milling HMA Surface	Syd	984.670
5010005	HMA Surface, Rem	Syd	2.889
5010703	HMA, LVSP	Ton	130.000
5017011	_Cold Milling for Concrete Curb and Gutter Reveal	Syd	103.330
6027021	_Flowable Fill	Cyd	0.722
8017011	_Driveway, Nonreinf Conc, 6 inch, Modified	Syd	14.660
8027001	_Driveway Opening, Conc, Det M, Modified	Ft	26.000
8110198	Pavt Mrkg, Thermopl, 6 inch, White	Ft	130.000
8120012	Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	Ea	4.000
8120013	Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	Ea	4.000
8120250	Plastic Drum, High Intensity, Furn	Ea	15.000
8120251	Plastic Drum, High Intensity, Oper	Ea	15.000
8120350	Sign, Type B, Temp, Prismatic, Furn	Sft	61.000
8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	61.000
8120352	Sign, Type B, Temp, Prismatic, Special, Furn	Sft	16.000
8120353	Sign, Type B, Temp, Prismatic, Special, Oper	Sft	16.000
8127050	_Temporary No Parking Sign	Ea	9.257
8167011	_Slope Restoration	Syd	3.000
8507050	_HMA Surface, Around Structure Cover, Rem	Ea	3.000

QUANTITIES					
	S	ign, Type B, Temp, Prismatic & *Sign, Type B, Temp, Prismatic, Special			
Quantity	Sign Code	Description	Area (sft)	Aroa (Sff)	
4.0	*D3-1	Street Name Sign	4.000	16.000	
4.0	W20-1	Road Work Ahead Sign	9.000	36.000	
2.0	R11-3a	Road Closed Local Traffic Only	12.500	25.000	
	•		TOTAL	77.000	

CONSTRUCTION METHOD AND SEQUENCING

- 1. THE WORK TO BE COMPLETED ON THIS STREET SHALL INCLUDE, BUT NOT BE LIMITED TO THE FOLLOWING ITEMS. THE ORDER OF CONSTRUCTION SHALL BE AS GIVEN UNLESS OTHERWISE AUTHORIZE OR DIRECTED BY THE ENGINEER
- 2. IMPLEMENT TRAFFIC MAINTENANCE, AND SOIL EROSION CONTROLS IN ACCORDANCE WITH THE PLA AND AS DIRECTED BY THE ENGINEER.
- 3. INSTALL ANY PROPOSED STORM SEWER, AND UNDERDRAIN AS SHOWN ON THE PLANS, AND AS DIRECTED BY THE ENGINEER.
- 4. LOWER ALL STRUCTURE COVERS, INCLUDING VALVE AND MONUMENT BOXES
- PERFORM ALL CONCRETE WORK, INCLUDING RESTORATION, IN ACCORDANCE WITH THE PLANS, AND AS DIRECTED BY THE ENGINEER.
- 6. MILL 3 INCHES OF BITUMINOUS MATERIAL FROM EXISTING ROADWAY. THIS MAY INCLUDE GRANULAR ROAD BASE MATERIAL. DEPTH TO BE DETERMINED BY THE ENGINEER. PROOF ROLL WITH FULL TRUCK
- 7. PERFORM UNDERCUTS AND/OR BASE REPAIRS AS DIRECTED BY THE ENGINEE
- 8. GRADE, SHAPE, AND RE-COMPACT THE EXISTING ROAD BASE AS REQUIRED, AND AS DIRECTED BY THI ENGINEER.
- 9. PAVE 2 INCHES OF THE BITUMINOUS MIX AS SPECIFIED OR DIRECTED, AS THE LEVELING COURSE, IN ONE LIFT.
- 10. ADJUST ALL STRUCTURE COVERS, MONUMENT BOXES, AND VALVE BOXES TO THEIR FINISHED ELEVATIONS.
- 11. PAVE 1 INCH OF THE BITUMINOUS MIX AS SPECIFIED OR DIRECTED, AS THE WEARING COURSE, IN ONE LIFT.
- 12. COMPLETE ALL PAVEMENT MARKINGS IN ACCORDANCE WITH THE PLANS, AND AS DIRECTED BY THE ENGINEER.
- 13. COMPLETE ALL MISCELLANEOUS CONSTRUCTION INCLUDING ALL CLEAN-UP AND FINAL RESTORATION.
- 14. REMOVE ALL TRAFFIC CONTROL DEVICES. REMOVE MISS DIG FLAGS.

NOTES:

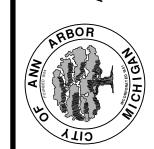
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PTION DATE DRAWN CHECKED Call before yo

CITY OF ANN ARBOR
PUBLIC SERVICES
301 EAST HURON STREET
P.O. BOX 8647
ANN ARBOR, MI 48107-8647
734-794-6410
www.a2gov.org



R ON PROJECT - 2020 IR & WINSTED CT

ACING/RESTORATION
OR YEOMAN CT MERSHON DR &

LIC SERVICES - CITY C
STREET RESURFACIN
AMESBURY DR YEO

VEERING - PUBLIC

ENGINEERIN

No.



PROJECT LOCATION: YEOMAN CT

ITB No. BID NO FILE No. 2020-004

	QUANTITIES		
Item Code	Item Description	Unit	Quantity
2030011	Dr Structure, Rem	Ea	2.000
2030015	Sewer, Rem, Less than 24 inch	Ft	20.000
2047001	_Curb, Gutter, and Curb and Gutter, Any Type, Rem	Ft	126.000
2057011	_Grading, Sidewalk Ramp	Syd	8.000
2057011	_Machine Grading, Special	Syd	1,557.550
2057021	_Subgrade Undercutting, Type IIA	Cyd	115.900
2080020	Erosion Control, Inlet Protection, Fabric Drop	Ea	3.000
4020987	Sewer, Cl IV, 12 inch, Tr Det B	Ft	20.000
4030200	Dr Structure, 24 inch dia	Ea	2.000
4037050	_Dr Structure Cover, Type B, Modified	Ea	1.000
4037050	_Dr Structure Cover, Type K, Modified	Ea	2.000
4037050	_Dr Structure, Adj, Case 1, Modified	Ea	5.000
4037050	_Dr Structure, Temp Lowering, Modified	Ea	3.000
4047001	_Underdrain, Subgrade, 6 inch, Special	Ft	40.000
5010002	Cold Milling HMA Surface	Syd	1,519.670
5010005	HMA Surface, Rem	Syd	18.660
5010703	HMA, LVSP	Ton	360.000
5017011	_Cold Milling for Concrete Curb and Gutter Reveal	Syd	38.330
6027021	_Flowable Fill	Cyd	3.500
8027001	_Curb and Gutter, Conc, Barrier	Ft	40.000
8027001	_Driveway Opening, Conc, Det M, Modified	Ft	86.000
8120012	Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	Ea	4.000
8120013	Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	Ea	4.000
8120250	Plastic Drum, High Intensity, Furn	Ea	15.000
8120251	Plastic Drum, High Intensity, Oper	Ea	15.000
8120350	Sign, Type B, Temp, Prismatic, Furn	Sft	31.000
8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	31.000
8120352	Sign, Type B, Temp, Prismatic, Special, Furn	Sft	8.000
8120353	Sign, Type B, Temp, Prismatic, Special, Oper	Sft	8.000
8127050	_Temporary No Parking Sign	Ea	9.314
8167011	_Slope Restoration	Syd	50.400

QUANTITIES Sign, Type B, Temp, Prismatic & *Sign, Type B, Temp, Prismatic, Special					
Quantity		Description	Area (sft)	Total Area (Sft)	
2.0	*D3-1	Street Name Sign	4.000	8.000	
2.0	W20-1	Road Work Ahead Sign	9.000	18.000	
1.0	R11-3a	Road Closed Local Traffic Only	12.500	13.000	
			TOTAL	39.000	

CONSTRUCTION METHOD AND SEQUENCING

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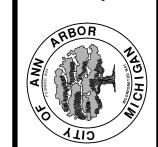
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SIPTION DATE DRAWN CHECKED Call before you

PUBLIC SERVICES
801 EAST HURON STREET
P.O. BOX 8647
ANN ARBOR, MI 48107-8647
734-734-6410
www.a2gov.org



TION PROJECT - 202

RFACING/RESTORATIC

SLIC SERVICES - CIT
STREET RESURFAC

INEERING - PUE

SCALE

DRAWING No.



PROJECT LOCATION: MERSHON DR

ITB No. BID NO FILE No. 2020-004

	QUANTITIES		
Item Code	Item Description	Unit	Quantity
2030011	Dr Structure, Rem	Ea	13.00
2030015	Sewer, Rem, Less than 24 inch	Ft	130.00
2047001	_Curb, Gutter, and Curb and Gutter, Any Type, Rem	Ft	361.00
2047011	_Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	Syd	54.77
2057011	_Grading, Driveway Approach	Syd	54.77
2057011	_Machine Grading, Special	Syd	7,421.00
2057021	_Subgrade Undercutting, Type IIA	Cyd	680.26
2080020	Erosion Control, Inlet Protection, Fabric Drop	Ea	16.00
4020987	Sewer, Cl IV, 12 inch, Tr Det B	Ft	130.00
4030200	Dr Structure, 24 inch dia	Ea	13.00
4037050	_Dr Structure Cover, Type B, Modified	Ea	3.00
4037050	_Dr Structure Cover, Type K, Modified	Ea	12.00
4037050	_Dr Structure, Adj, Case 1, Modified	Ea	31.00
4037050	_Dr Structure, Temp Lowering, Modified	Ea	20.00
4047001	_Underdrain, Subgrade, 6 inch, Special	Ft	260.00
5010002	Cold Milling HMA Surface	Syd	7,421.00
5010005	HMA Surface, Rem	Syd	40.11
5010703	HMA, LVSP	Ton	1,720.00
6027021	_Flowable Fill	Cyd	10.02
8017011		Syd	54.77
8027001	_Curb and Gutter, Conc, Barrier	Ft	240.00
8027001		Ft	121.00
8110049	Pavt Mrkg, Ovly Cold Plastic, Direction Arrow Sym, Bike	Ea	2.00
8110058	Pavt Mrkg, Ovly Cold Plastic, Bike, Small Sym	Ea	2.00
8110079	Pavt Mrkg, Ovly Cold Plastic, Sharrow Symbol	Ea	1.00
8110196	Pavt Mrkg, Thermopl, 4 inch, Yellow	Ft	820.00
8110198	Pavt Mrkg, Thermopl, 6 inch, White	Ft	760.00
8110214	Pavt Mrkg, Thermopl, 12 inch, Crosswalk	Ft	96.00
8110218	Pavt Mrkg, Thermopl, 24 inch, Stop Bar	Ft	16.00
8120012	Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	Ea	10.00
8120013	Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	Ea	10.00
8120250	Plastic Drum, High Intensity, Furn	Ea	15.00
8120251	Plastic Drum, High Intensity, Oper	Ea	15.00
8120350	Sign, Type B, Temp, Prismatic, Furn	Sft	126.00
8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	126.00
8120352	Sign, Type B, Temp, Prismatic, Special, Furn	Sft	28.00
8120353	Sign, Type B, Temp, Prismatic, Special, Oper	Sft	28.00
8127050	Temporary No Parking Sign	Ea	58.31
8167011	Slope Restoration	Syd	144.40
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	QUANTITIES					
	Sign, Type B, Temp, Prismatic & *Sign, Type B, Temp, Prismatic, Special					
Quantity	Sign Code	Description	Area (sft)	Total Area (Sft)		
7.0	*D3-1	Street Name Sign	4.000	28.000		
7.0	W20-1	Road Work Ahead Sign	9.000	63.000		
5.0	R11-3a	Road Closed Local Traffic Only	12.500	63.000		
			TOTAL	154.000		
			-			

CONSTRUCTION METHOD AND SEQUENCING

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- 13. COMPLETE ALL MISCELLANEOUS CONSTRUCTION INCLUDING ALL CLEAN-UP AND FINAL RESTORATION.
- 14. REMOVE ALL TRAFFIC CONTROL DEVICES. REMOVE MISS DIG FLAGS.

NOTES:

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DESCRIPTION

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AON PROJECT - 2020

ACING/RESTORATION YEOMAN CT MERSHON DR.

STREET RESURFAC

INEERING - PUE

SCALE

T No.



PROJECT LOCATION: WINSTED CT

ITB No. BID NO FILE No. 2020-004

	QUANTITIES		
Item Code	Item Description	Unit	Quantity
2030011	Dr Structure, Rem	Ea	2.00
2030015	Sewer, Rem, Less than 24 inch	Ft	20.00
2047001	_Curb, Gutter, and Curb and Gutter, Any Type, Rem	Ft	84.00
2047011	_Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	Syd	39.11
2057011	_Grading, Driveway Approach	Syd	39.00
2057011	_Machine Grading, Special	Syd	2,714.35
2057021	_Subgrade Undercutting, Type IIA	Cyd	219.31
2080020	Erosion Control, Inlet Protection, Fabric Drop	Ea	3.00
4020987	Sewer, Cl IV, 12 inch, Tr Det B	Ft	20.00
4030200	Dr Structure, 24 inch dia	Ea	2.00
4037050	_Dr Structure Cover, Type K, Modified	Ea	6.00
4037050	_Dr Structure, Adj, Case 1, Modified	Ea	7.00
4037050	_Dr Structure, Temp Lowering, Modified	Ea	5.00
4047001	_Underdrain, Subgrade, 6 inch, Special	Ft	40.00
5010002	Cold Milling HMA Surface	Syd	2,715.00
5010005	HMA Surface, Rem	Syd	9.33
5010703	HMA, LVSP	Ton	630.00
6027021	_Flowable Fill	Cyd	2.33
8017011	_Driveway, Nonreinf Conc, 6 inch, Modified	Syd	39.00
8027001	_Driveway Opening, Conc, Det M, Modified	Ft	84.00
8110197	Pavt Mrkg, Thermopl, 6 inch, Crosswalk	Ft	60.00
8110218	Pavt Mrkg, Thermopl, 24 inch, Stop Bar	Ft	15.00
8120012	Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	Ea	2.00
8120013	Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	Ea	2.00
8120250	Plastic Drum, High Intensity, Furn	Ea	15.00
8120251	Plastic Drum, High Intensity, Oper	Ea	15.00
8120350	Sign, Type B, Temp, Prismatic, Furn	Sft	31.00
8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	31.00
8120352	Sign, Type B, Temp, Prismatic, Special, Furn	Sft	8.00
8120353	Sign, Type B, Temp, Prismatic, Special, Oper	Sft	8.00
8127050	_Temporary No Parking Sign	Ea	18.80
8167011	Slope Restoration	Syd	33.60

	:	QUANTITIES Sign, Type B, Temp, Prismatic & *Sign, Type B, Temp, Prismatic, Special		
Quantity	Sign Code	Description	Area (sft)	Total Area (Sft)
2.0	*D3-1	Street Name Sign	4.000	8.000
2.0	W20-1	Road Work Ahead Sign	9.000	18.000
1.0	R11-3a	Road Closed Local Traffic Only	12.500	13.000
			TOTAL	39.000

CONSTRUCTION METHOD AND SEQUENCING

- INSTALL ANY PROPOSED STORM SEWER, AND UNDERDRAIN AS SHOWN ON THE PLANS, AND AS
- STRUCTURE COVERS, INCLUDING VALVE AND MONUMENT BOXES

- 9. PAVE 2 INCHES OF THE BITUMINOUS MIX AS SPECIFIED OR DIRECTED, AS THE LEVELING COURSE, IN
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PROJECT LOCATION: ARDMOOR AVE

ITB No. BID NO FILE No. 2020-004

QUANTITIES				
Item Code	Item Description	Unit	Quantity	
2030011	Dr Structure, Rem	Ea	4.000	
2030015	Sewer, Rem, Less than 24 inch	Ft	40.000	
2047001	_Curb, Gutter, and Curb and Gutter, Any Type, Rem	Ft	801.000	
2047011	_Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	Syd	76.880	
2057011	_Grading, Driveway Approach	Syd	76.880	
2080020	Erosion Control, Inlet Protection, Fabric Drop	Ea	11.000	
4020987	Sewer, Cl IV, 12 inch, Tr Det B	Ft	40.000	
4030200	Dr Structure, 24 inch dia	Ea	4.000	
4037050	_Dr Structure Cover, Type K, Modified	Ea	6.000	
4037050	_Dr Structure, Adj, Case 1, Modified	Ea	6.000	
5010002	Cold Milling HMA Surface	Syd	3,338.000	
5010005	HMA Surface, Rem	Syd	89.000	
5010703	HMA, LVSP	Ton	390.000	
6027021	_Flowable Fill	Cyd	22.250	
8017011	_Driveway, Nonreinf Conc, 6 inch, Modified	Syd	76.880	
8027001	_Curb and Gutter, Conc, Barrier	Ft	280.000	
8027001	_Driveway Opening, Conc, Det M, Modified	Ft	521.000	
8110197	Pavt Mrkg, Thermopl, 6 inch, Crosswalk	Ft	63.000	
8110218	Pavt Mrkg, Thermopl, 24 inch, Stop Bar	Ft	15.000	
8120012	Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	Ea	4.000	
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8120350	Sign, Type B, Temp, Prismatic, Furn	Sft	61.000	
8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	61.000	
8120352	Sign, Type B, Temp, Prismatic, Special, Furn	Sft	16.000	
8120353	Sign, Type B, Temp, Prismatic, Special, Oper	Sft	16.000	
8127050	_Temporary No Parking Sign	Ea	27.543	
8167011	_Slope Restoration	Syd	320.400	
8507050	_HMA Surface, Around Structure Cover, Rem	Ea	5.000	

	QUANTITIES					
		Sign, Type B, Temp, Prismatic & *Sign, Type B, Temp, Prismatic, Special		Total		
Quantity	Sign Code	Description	Area (sft)	Total Area (Sft)		
4.0	*D3-1	Street Name Sign	4.000	16.000		
4.0	W20-1	Road Work Ahead Sign	9.000	36.000		
2.0	R11-3a	Road Closed Local Traffic Only	12.500	25.000		
			TOTAL	77.000		

CONSTRUCTION METHOD AND SEQUENCING

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PROJECT LOCATION: AVONDALE AVE

ITB No. BID NO FILE No. 2020-004

	QUANTITIES		
Item Code	Item Description	Unit	Quantity
2030011	Dr Structure, Rem	Ea	2.000
2030015	Sewer, Rem, Less than 24 inch	Ft	20.000
2047001	_Curb, Gutter, and Curb and Gutter, Any Type, Rem	Ft	247.000
2080020	Erosion Control, Inlet Protection, Fabric Drop	Ea	9.000
4020987	Sewer, Cl IV, 12 inch, Tr Det B	Ft	20.000
4030200	Dr Structure, 24 inch dia	Ea	2.000
4037050	_Dr Structure Cover, Type K, Modified	Ea	3.000
4037050	_Dr Structure, Adj, Case 1, Modified	Ea	3.000
4037050	_Structure, Reconstruct	Ea	1.000
4047001	_Underdrain, Subgrade, 6 inch, Special	Ft	60.000
5010002	Cold Milling HMA Surface	Syd	2,246.000
5010005	HMA Surface, Rem	Syd	27.444
5010703	HMA, LVSP	Ton	260.000
6027021	_Flowable Fill	Cyd	6.861
8027001	_Curb and Gutter, Conc, Barrier	Ft	60.000
8027001	_Driveway Opening, Conc, Det M, Modified	Ft	187.000
8110197	Pavt Mrkg, Thermopl, 6 inch, Crosswalk	Ft	140.000
8110218	Pavt Mrkg, Thermopl, 24 inch, Stop Bar	Ft	16.000
8120012	Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	Ea	4.000
8120013	Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	Ea	4.000
8120250	Plastic Drum, High Intensity, Furn	Ea	15.000
8120251	Plastic Drum, High Intensity, Oper	Ea	15.000
8120350	Sign, Type B, Temp, Prismatic, Furn	Sft	61.000
8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	61.000
8120352	Sign, Type B, Temp, Prismatic, Special, Furn	Sft	16.000
8120353	Sign, Type B, Temp, Prismatic, Special, Oper	Sft	16.000
8127050	_Temporary No Parking Sign	Ea	17.343
8167011	_Slope Restoration	Syd	98.800
8507050	_HMA Surface, Around Structure Cover, Rem	Ea	9.000

	QUANTITIES						
		Sign, Type B, Temp, Prismatic & *Sign, Type B, Temp, Prismatic, Special					
Ouentit.	Sian Codo	Department	Area (sft)	Total			
Quantity Sign Code		Description		Area (Sft)			
4.0	*D3-1	Street Name Sign	4.000	16.000			
4.0	W20-1	Road Work Ahead Sign	9.000	36.000			
2.0	R11-3a	Road Closed Local Traffic Only	12.500	25.000			
			TOTAL	77.000			

CONSTRUCTION METHOD AND SEQUENCING

- 1. THE WORK TO BE COMPLETED ON THIS STREET SHALL INCLUDE, BUT NOT BE LIMITED TO THE FOLLOWING ITEMS. THE ORDER OF CONSTRUCTION SHALL BE AS GIVEN UNLESS OTHERWISE AUTHORIZED OR DIRECTED BY THE ENGINEER
- 2. IMPLEMENT TRAFFIC MAINTENANCE, AND SOIL EROSION CONTROLS IN ACCORDANCE WITH THE PLAI AND AS DIRECTED BY THE ENGINEER.
- 3. INSTALL ANY PROPOSED STORM SEWER, AND UNDERDRAIN AS SHOWN ON THE PLANS, AND AS DIRECTED BY THE ENGINEER.
- 4. LOWER ALL STRUCTURE COVERS, INCLUDING VALVE AND MONUMENT BOXES
- 5. PERFORM ALL CONCRETE WORK, INCLUDING RESTORATION, IN ACCORDANCE WITH THE PLANS, AND AS DIRECTED BY THE ENGINEER.
- 6. MILL 3 INCHES OF BITUMINOUS MATERIAL FROM EXISTING ROADWAY. THIS MAY INCLUDE GRANULAR ROAD BASE MATERIAL. DEPTH TO BE DETERMINED BY THE ENGINEER. PROOF ROLL WITH FULL TRUCK
- 7. PERFORM UNDERCUTS AND/OR BASE REPAIRS AS DIRECTED BY THE ENGINEE
- 8. GRADE, SHAPE, AND RE—COMPACT THE EXISTING ROAD BASE AS REQUIRED, AND AS DIRECTED BY THI ENGINEER.
- 9. PAVE 2 INCHES OF THE BITUMINOUS MIX AS SPECIFIED OR DIRECTED, AS THE LEVELING COURSE, IN ONE LIFT.
- 10. ADJUST ALL STRUCTURE COVERS, MONUMENT BOXES, AND VALVE BOXES TO THEIR FINISHED ELEVATIONS.
- 11. PAVE 1 INCH OF THE BITUMINOUS MIX AS SPECIFIED OR DIRECTED, AS THE WEARING COURSE, IN ONE LIFT.
- 12. COMPLETE ALL PAVEMENT MARKINGS IN ACCORDANCE WITH THE PLANS, AND AS DIRECTED BY THE ENGINEER.
- 13. COMPLETE ALL MISCELLANEOUS CONSTRUCTION INCLUDING ALL CLEAN-UP AND FINAL RESTORATION.
- 14. REMOVE ALL TRAFFIC CONTROL DEVICES. REMOVE MISS DIG FLAGS.

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 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.

03/05/2020 GS,CE DAD Know what's **belo**DATE DRAWN CHECKED

ITY OF ANN ARBOR
DUBLIC SERVICES
IT EAST HURON STREET
P.O. BOX 8647
734-794-6410
www.a2gov.org



ROJECT - 2020

G/RESTORATION P

RESURFACING/RE
ARDMOOR AVE

SLIC SERVICES - C STREET RESURF

IEERING - PUBLIC

SCALE

I NO.



PROJECT LOCATION: AVONDALE AVE

ITB No. BID NO FILE No. 2020-004

Item Code	Item Description	Unit	Quantity
2030011	Dr Structure, Rem	Ea	8.000
2030015	Sewer, Rem, Less than 24 inch	Ft	80.000
2047001	_Curb, Gutter, and Curb and Gutter, Any Type, Rem	Ft	426.000
2047011	_Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	Syd	20.500
2057011	_Grading, Driveway Approach	Syd	20.500
2080020	Erosion Control, Inlet Protection, Fabric Drop	Ea	12.000
4020987	Sewer, Cl IV, 12 inch, Tr Det B	Ft	80.000
4030200	Dr Structure, 24 inch dia	Ea	8.000
4037050	_Dr Structure Cover, Type K, Modified	Ea	6.000
4037050	_Dr Structure, Adj, Case 1, Modified	Ea	8.000
4047001	_Underdrain, Subgrade, 6 inch, Special	Ft	160.000
5010002	Cold Milling HMA Surface	Syd	3,544.000
5010005	HMA Surface, Rem	Syd	47.333
5010703	HMA, LVSP	Ton	410.000
6027021	_Flowable Fill	Cyd	11.833
8017011	_Driveway, Nonreinf Conc, 6 inch, Modified	Syd	20.500
8027001	_Curb and Gutter, Conc, Barrier	Ft	165.000
8027001	_Driveway Opening, Conc, Det M, Modified	Ft	261.000
8120012	Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	Ea	7.000
8120013	Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	Ea	7.000
8120250	Plastic Drum, High Intensity, Furn	Ea	15.000
8120251	Plastic Drum, High Intensity, Oper	Ea	15.000
8120350	Sign, Type B, Temp, Prismatic, Furn	Sft	108.000
8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	108.000
8120352	Sign, Type B, Temp, Prismatic, Special, Furn	Sft	20.000
8120353	Sign, Type B, Temp, Prismatic, Special, Oper	Sft	20.000
8127050	_Temporary No Parking Sign	Ea	30.37
8167011	_Slope Restoration	Syd	170.400
8507050	_HMA Surface, Around Structure Cover, Rem	Ea	13.000

QUANTITIES						
	Sign, Type B, Temp, Prismatic & *Sign, Type B, Temp, Prismatic, Special					
Quantity	Sign Code	Description	Area (sft)	Total Area (Sft)		
5.0	*D3-1	Street Name Sign	4.000	20.000		
5.0	W20-1	Road Work Ahead Sign	9.000	45.000		
5.0	R11-3a	Road Closed Local Traffic Only	12.500	63.000		
			TOTAL	128.000		

CONSTRUCTION METHOD AND SEQUENCING

- INSTALL ANY PROPOSED STORM SEWER, AND UNDERDRAIN AS SHOWN ON THE PLANS, AND AS
- STRUCTURE COVERS, INCLUDING VALVE AND MONUMENT BOXES

- 8. GRADE, SHAPE, AND RE-COMPACT THE EXISTING ROAD BASE AS REQUIRED, AND AS DIRECTED BY THE
- 9. PAVE 2 INCHES OF THE BITUMINOUS MIX AS SPECIFIED OR DIRECTED, AS THE LEVELING COURSE, IN
- 10. ADJUST ALL STRUCTURE COVERS, MONUMENT BOXES, AND VALVE BOXES TO THEIR FINISHED ELEVATIONS.
- 11. PAVE 1 INCH OF THE BITUMINOUS MIX AS SPECIFIED OR DIRECTED, AS THE WEARING COURSE, IN ONE
- 12. COMPLETE ALL PAVEMENT MARKINGS IN ACCORDANCE WITH THE PLANS, AND AS DIRECTED BY THE
- 13. COMPLETE ALL MISCELLANEOUS CONSTRUCTION INCLUDING ALL CLEAN—UP AND FINAL RESTORATION.
- 14. REMOVE ALL TRAFFIC CONTROL DEVICES. REMOVE MISS DIG FLAGS.

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 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.





PROJECT LOCATION: LASBEGAS DR

ITB No. BID NO FILE No.2020-004

Item Code	Item Description	Unit	Quantity
2030011	Dr Structure, Rem	Ea	1.00
2030015	Sewer, Rem, Less than 24 inch	Ft	10.00
2047001	_Curb, Gutter, and Curb and Gutter, Any Type, Rem	Ft	742.00
2047011	_Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	Syd	118.88
2057011	_Grading, Driveway Approach	Syd	119.00
2057011	_Machine Grading, Special	Syd	3,929.56
2057021	_Subgrade Undercutting, Type IIA	Cyd	394.96
2080020	Erosion Control, Inlet Protection, Fabric Drop	Ea	14.00
4020987	Sewer, Cl IV, 12 inch, Tr Det B	Ft	10.00
4030200	Dr Structure, 24 inch dia	Ea	1.00
4037050	_Dr Structure Cover, Type B, Modified	Ea	7.00
4037050	_Dr Structure Cover, Type K, Modified	Ea	5.00
4037050	_Dr Structure, Adj, Case 1, Modified	Ea	14.00
4037050	_Dr Structure, Temp Lowering, Modified	Ea	12.00
4047001	_Underdrain, Subgrade, 6 inch, Special	Ft	20.00
5010002	Cold Milling HMA Surface	Syd	3,929.56
5010005	HMA Surface, Rem	Syd	82.44
5010703	HMA, LVSP	Ton	970.00
5017011	_Cold Milling for Concrete Curb and Gutter Reveal	Syd	25.11
6027021	_Flowable Fill	Cyd	20.61
8017011	_Driveway, Nonreinf Conc, 6 inch, Modified	Syd	119.00
8027001	_Curb and Gutter, Conc, Barrier	Ft	239.00
8027001	_Driveway Opening, Conc, Det M, Modified	Ft	503.00
8110197	Pavt Mrkg, Thermopl, 6 inch, Crosswalk	Ft	145.00
8110218	Pavt Mrkg, Thermopl, 24 inch, Stop Bar	Ft	12.00
8120012	Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	Ea	8.00
8120013	Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	Ea	8.00
8120250	Plastic Drum, High Intensity, Furn	Ea	15.00
8120251	Plastic Drum, High Intensity, Oper	Ea	15.00
8120350	Sign, Type B, Temp, Prismatic, Furn	Sft	145.00
8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	145.00
8120352	Sign, Type B, Temp, Prismatic, Special, Furn	Sft	20.00
8120353	Sign, Type B, Temp, Prismatic, Special, Oper	Sft	20.00
8127050	_Temporary No Parking Sign	Ea	33.85
8167011	_Slope Restoration	Syd	296.80
8230431	Gate Box, Adj, Case 1	Ea	3.00

	QUANTITIES						
	Sign, Type B, Temp, Prismatic & *Sign, Type B, Temp, Prismatic, Special						
Quantity	Sign Code	Description	Area (sft)	Total Area (Sft)			
5.0	*D3-1	Street Name Sign	4.000	20.000			
5.0	W20-1	Road Work Ahead Sign	9.000	45.000			
8.0	R11-3a	Road Closed Local Traffic Only	12.500	100.000			
			TOTAL	165.000			
			TOTAL	165.00			

CONSTRUCTION METHOD AND SEQUENCING

- INSTALL ANY PROPOSED STORM SEWER, AND UNDERDRAIN AS SHOWN ON THE PLANS, AND AS
- STRUCTURE COVERS, INCLUDING VALVE AND MONUMENT BOXES

- 9. PAVE 2 INCHES OF THE BITUMINOUS MIX AS SPECIFIED OR DIRECTED, AS THE LEVELING COURSE, IN
- 10. ADJUST ALL STRUCTURE COVERS, MONUMENT BOXES, AND VALVE BOXES TO THEIR FINISHED ELEVATIONS.
- 11. PAVE 1 INCH OF THE BITUMINOUS MIX AS SPECIFIED OR DIRECTED, AS THE WEARING COURSE, IN ONE
- 12. COMPLETE ALL PAVEMENT MARKINGS IN ACCORDANCE WITH THE PLANS, AND AS DIRECTED BY THE
- 13. COMPLETE ALL MISCELLANEOUS CONSTRUCTION INCLUDING ALL CLEAN—UP AND FINAL RESTORATION.
- 14. REMOVE ALL TRAFFIC CONTROL DEVICES. REMOVE MISS DIG FLAGS.

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





PROJECT LOCATION: WESTFIELD AVE

ITB No. BID NO FILE No. 2020-004

	QUANTITIES		
Item Code	Item Description	Unit	Quantity
2030011	Dr Structure, Rem	Ea	3.000
2030015	Sewer, Rem, Less than 24 inch	Ft	30.000
2047001	_Curb, Gutter, and Curb and Gutter, Any Type, Rem	Ft	607.000
2047011	_Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	Syd	135.410
2057011	_Grading, Driveway Approach	Syd	135.000
2080020	Erosion Control, Inlet Protection, Fabric Drop	Ea	10.000
4020987	Sewer, Cl IV, 12 inch, Tr Det B	Ft	30.000
4030200	Dr Structure, 24 inch dia	Ea	3.000
4037050	_Dr Structure Cover, Type K, Modified	Ea	3.000
4037050	_Dr Structure, Adj, Case 1, Modified	Ea	3.000
4047001	_Underdrain, Subgrade, 6 inch, Special	Ft	60.000
5010002	Cold Milling HMA Surface	Syd	3,322.000
5010005	HMA Surface, Rem	Syd	67.444
5010703	HMA, LVSP	Ton	390.000
6027021	_Flowable Fill	Cyd	16.861
8017011	_Driveway, Nonreinf Conc, 6 inch, Modified	Syd	135.000
8027001	_Curb and Gutter, Conc, Barrier	Ft	66.000
8027001	_Driveway Opening, Conc, Det M, Modified	Ft	541.000
8120012	Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	Ea	4.000
8120013	Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	Ea	4.000
8120250	Plastic Drum, High Intensity, Furn	Ea	15.000
8120251	Plastic Drum, High Intensity, Oper	Ea	15.000
8120350	Sign, Type B, Temp, Prismatic, Furn	Sft	61.000
8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	61.000
8120352	Sign, Type B, Temp, Prismatic, Special, Furn	Sft	16.000
8120353	Sign, Type B, Temp, Prismatic, Special, Oper	Sft	16.000
8127050	_Temporary No Parking Sign	Ea	30.200
8167011	_Slope Restoration	Syd	242.800
8507050	_HMA Surface, Around Structure Cover, Rem	Ea	5.000

	QUANTITIES Sign, Type B, Temp, Prismatic & *Sign, Type B, Temp, Prismatic, Special							
Quantity	Sign Code	Description	Area (sft)	Total Area (Sft)				
4.0	*D3-1	Street Name Sign	4.000	16.000				
4.0	W20-1	Road Work Ahead Sign	9.000	36.000				
2.0	R11-3a	Road Closed Local Traffic Only	12.500	25.000				
			TOTAL	77.000				

CONSTRUCTION METHOD AND SEQUENCING

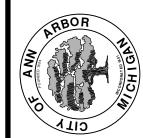
- INSTALL ANY PROPOSED STORM SEWER, AND UNDERDRAIN AS SHOWN ON THE PLANS, AND AS
- STRUCTURE COVERS, INCLUDING VALVE AND MONUMENT BOXES

- 9. PAVE 2 INCHES OF THE BITUMINOUS MIX AS SPECIFIED OR DIRECTED, AS THE LEVELING COURSE, IN
- 10. ADJUST ALL STRUCTURE COVERS, MONUMENT BOXES, AND VALVE BOXES TO THEIR FINISHED ELEVATIONS.
- 11. PAVE 1 INCH OF THE BITUMINOUS MIX AS SPECIFIED OR DIRECTED, AS THE WEARING COURSE, IN ONE
- 12. COMPLETE ALL PAVEMENT MARKINGS IN ACCORDANCE WITH THE PLANS, AND AS DIRECTED BY THE
- 13. COMPLETE ALL MISCELLANEOUS CONSTRUCTION INCLUDING ALL CLEAN—UP AND FINAL RESTORATION.
- 14. REMOVE ALL TRAFFIC CONTROL DEVICES. REMOVE MISS DIG FLAGS.

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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PROJECT LOCATION:BARNARD RD

ITB No. BID NO FILE No. 2020-004

Item Code	QUANTITIES Item Description	Unit	Quantity
2030011	Dr Structure, Rem	Ea	3.00
2030011	Sewer, Rem, Less than 24 inch	Ft Ft	30.00
2030015		Ft	252.00
	_Curb, Gutter, and Curb and Gutter, Any Type, Rem		144.19
2047011	_Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	Syd	
2057011	_Grading, Sidewalk	Syd	36.10
2057011	_Grading, Sidewalk Ramp	Syd	16.22
2080020	Erosion Control, Inlet Protection, Fabric Drop	Ea	5.00
4020987	Sewer, Cl IV, 12 inch, Tr Det B	Ft	30.00
4030200	Dr Structure, 24 inch dia	Ea	3.00
4037050	_Dr Structure Cover, Type K, Modified	Ea	3.00
4037050	_Dr Structure, Adj, Case 1, Modified	Ea	3.00
4047001	_Underdrain, Subgrade, 6 inch, Special	Ft	60.00
5010002	Cold Milling HMA Surface	Syd	2,460.00
5010005	HMA Surface, Rem	Syd	28.00
5010703	HMA, LVSP	Ton	320.00
5017011	_Cold Milling for Concrete Curb and Gutter Reveal	Syd	250.00
6027021	_Flowable Fill	Cyd	7.00
8027001	_Curb and Gutter, Conc, Barrier	Ft -	56.00
8027001	_Driveway Opening, Conc, Det M, Modified	Ft	172.00
8030030	Curb Ramp Opening, Conc	Ft	21.00
8037001	_Detectable Warning Surface, Modified	Ft	15.00
8037010	_Sidewalk Ramp, Conc, 6 inch, Modified	Sft	146.00
8037010	_Sidewalk, Conc, 4 inch, Modified	Sft	324.90
8110197	Pavt Mrkg, Thermopl, 6 inch, Crosswalk	Ft	70.00
8110218	Pavt Mrkg, Thermopl, 24 inch, Stop Bar	Ft	16.00
8120012	Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	Ea	4.00
8120013	Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	Ea	4.00
8120250	Plastic Drum, High Intensity, Furn	Ea	15.00
8120251	Plastic Drum, High Intensity, Oper	Ea	15.00
8120350	Sign, Type B, Temp, Prismatic, Furn	Sft	61.00
8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	61.00
8120352	Sign, Type B, Temp, Prismatic, Special, Furn	Sft	16.00
8120353	Sign, Type B, Temp, Prismatic, Special, Oper	Sft	16.00
8127050	_Pedestrian Type II Barricade, Temp	Ea	2.00
8127050	_Temporary No Parking Sign	Ea	21.42
8167011	_Slope Restoration	Syd	549.80
8507050	_HMA Surface, Around Structure Cover, Rem	Ea	5.00

	QUANTITIES Sign, Type B, Temp, Prismatic & *Sign, Type B, Temp, Prismatic, Special						
Quantity	Sign Code	Description	Area (sft)	Total Area (Sft)			
4.0	*D3-1	Street Name Sign	4.000	16.000			
4.0	W20-1	Road Work Ahead Sign	9.000	36.000			
2.0	R11-3a	Road Closed Local Traffic Only	12.500	25.000			
			TOTAL	77.000			

CONSTRUCTION METHOD AND SEQUENCING

- 1. THE WORK TO BE COMPLETED ON THIS STREET SHALL INCLUDE, BUT NOT BE LIMITED TO THE FOLLOWING ITEMS. THE ORDER OF CONSTRUCTION SHALL BE AS GIVEN UNLESS OTHERWISE AUTHORIZE OR DIRECTED BY THE ENGINEER
- 2. IMPLEMENT TRAFFIC MAINTENANCE, AND SOIL EROSION CONTROLS IN ACCORDANCE WITH THE PLAI AND AS DIRECTED BY THE ENGINEER.
- 3. INSTALL ANY PROPOSED STORM SEWER, AND UNDERDRAIN AS SHOWN ON THE PLANS, AND AS DIRECTED BY THE ENGINEER.
- 4. LOWER ALL STRUCTURE COVERS, INCLUDING VALVE AND MONUMENT BOXES
- 5. PERFORM ALL CONCRETE WORK, INCLUDING RESTORATION, IN ACCORDANCE WITH THE PLANS, AND AS DIRECTED BY THE ENGINEER.
- 6. MILL 3 INCHES OF BITUMINOUS MATERIAL FROM EXISTING ROADWAY. THIS MAY INCLUDE GRANULAR ROAD BASE MATERIAL. DEPTH TO BE DETERMINED BY THE ENGINEER. PROOF ROLL WITH FULL TRUCK
- 7. PERFORM UNDERCUTS AND/OR BASE REPAIRS AS DIRECTED BY THE ENGINEER
- 8. GRADE, SHAPE, AND RE—COMPACT THE EXISTING ROAD BASE AS REQUIRED, AND AS DIRECTED BY THE ENGINEER.
- 9. PAVE 2 INCHES OF THE BITUMINOUS MIX AS SPECIFIED OR DIRECTED, AS THE LEVELING COURSE, IN ONE LIFT.
- 10. ADJUST ALL STRUCTURE COVERS, MONUMENT BOXES, AND VALVE BOXES TO THEIR FINISHED ELEVATIONS.
- 11. PAVE 1 INCH OF THE BITUMINOUS MIX AS SPECIFIED OR DIRECTED, AS THE WEARING COURSE, IN ONE LIFT.
- 12. COMPLETE ALL PAVEMENT MARKINGS IN ACCORDANCE WITH THE PLANS, AND AS DIRECTED BY THE ENGINEER.
- 13. COMPLETE ALL MISCELLANEOUS CONSTRUCTION INCLUDING ALL CLEAN-UP AND FINAL RESTORATION.
- 14. REMOVE ALL TRAFFIC CONTROL DEVICES. REMOVE MISS DIG FLAGS.

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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| BID SET | DESCRIPTION | DATE | DRAWN | CHECKED | Call b

CITY OF ANN ARBOF PUBLIC SERVICES 301 EAST HURON STREET P.O. BOX 8647 ANN ARBOR, MI 48107-864 734-794-6410 www.a2gov.org



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No.



PROJECT LOCATION: NORMANDY RD

ITB No. BID NO FILE No. 2020-004

Item Code	QUANTITIES Item Description	Unit	Quantity
2030011	Dr Structure, Rem	Ea	5.000
2030015	Sewer, Rem, Less than 24 inch	Ft	50.000
2047001	_Curb, Gutter, and Curb and Gutter, Any Type, Rem	Ft	455.000
2047011	Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	Syd	177.000
2057011	Grading, Driveway Approach	Syd	120.000
2057011		Syd	41.667
2057011	Grading, Sidewalk Ramp	Syd	15.556
2080020	Erosion Control, Inlet Protection, Fabric Drop	Ea	9.000
4020987	Sewer, CI IV, 12 inch, Tr Det B	Ft	50.000
4030200	Dr Structure, 24 inch dia	Ea	5.000
4037050	_Dr Structure Cover, Type K, Modified	Ea	5.000
4037050	_Dr Structure, Adj, Case 1, Modified	Ea	5.000
4047001	_Underdrain, Subgrade, 6 inch, Special	Ft	100.000
5010002	Cold Milling HMA Surface	Syd	2,442.000
5010005	HMA Surface, Rem	Syd	50.556
5010703	HMA, LVSP	Ton	290.000
5017011	_Cold Milling for Concrete Curb and Gutter Reveal	Syd	253.330
6027021	_Flowable Fill	Cyd	12.639
8017011	_Driveway, Nonreinf Conc, 6 inch, Modified	Syd	120.000
8027001	_Curb and Gutter, Conc, Barrier	Ft	96.000
8027001	_Driveway Opening, Conc, Det M, Modified	Ft	335.000
8030030	Curb Ramp Opening, Conc	Ft	35.000
8037001	_Detectable Warning Surface, Modified	Ft	25.000
8037010	_Sidewalk Ramp, Conc, 6 inch, Modified	Sft	140.000
8037010	_Sidewalk, Conc, 4 inch, Modified	Sft	350.000
8037010	_Sidewalk, Conc, 6 inch, Modified	Sft	25.000
8120012	Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	Ea	4.000
8120013	Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	Ea	4.000
8120250	Plastic Drum, High Intensity, Furn	Ea	15.000
8120251	Plastic Drum, High Intensity, Oper	Ea	15.000
8120350	Sign, Type B, Temp, Prismatic, Furn	Sft	61.000
8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	61.000
8120352	Sign, Type B, Temp, Prismatic, Special, Furn	Sft	16.000
8120353	Sign, Type B, Temp, Prismatic, Special, Oper	Sft	16.000
8127050	_Pedestrian Type II Barricade, Temp	Ea	6.000
8127050	_Temporary No Parking Sign	Ea	21.714
8167011	_Slope Restoration	Syd	182.000
8507050	HMA Surface, Around Structure Cover, Rem	Ea	8.000

QUANTITIES						
		Sign, Type B, Temp, Prismatic & *Sign, Type B, Temp, Prismatic, Special				
Quantity	Sign Code	Description	Area (sft)	Total Area (Sft)		
4.0	*D3-1	Street Name Sign	4.000	16.000		
4.0	W20-1	Road Work Ahead Sign	9.000	36.000		
2.0	R11-3a	Road Closed Local Traffic Only	12.500	25.000		
			TOTAL	77.000		

CONSTRUCTION METHOD AND SEQUENCING

- 1. THE WORK TO BE COMPLETED ON THIS STREET SHALL INCLUDE, BUT NOT BE LIMITED TO THE FOLLOWING ITEMS. THE ORDER OF CONSTRUCTION SHALL BE AS GIVEN UNLESS OTHERWISE AUTHORIZED OR DIRECTED BY THE ENGINEER
- 2. IMPLEMENT TRAFFIC MAINTENANCE, AND SOIL EROSION CONTROLS IN ACCORDANCE WITH THE PLA AND AS DIRECTED BY THE ENGINEER.
- INSTALL ANY PROPOSED STORM SEWER, AND UNDERDRAIN AS SHOWN ON THE PLANS, AND AS DIRECTED BY THE ENGINEER.
- 4. LOWER ALL STRUCTURE COVERS, INCLUDING VALVE AND MONUMENT BOXES
- PERFORM ALL CONCRETE WORK, INCLUDING RESTORATION, IN ACCORDANCE WITH THE PLANS, AND A DIRECTED BY THE ENGINEER.
- 6. MILL 3 INCHES OF BITUMINOUS MATERIAL FROM EXISTING ROADWAY. THIS MAY INCLUDE GRANULAR ROAD BASE MATERIAL. DEPTH TO BE DETERMINED BY THE ENGINEER. PROOF ROLL WITH FULL TRUCK
- 7. PERFORM UNDERCUTS AND/OR BASE REPAIRS AS DIRECTED BY THE ENGINEE
- 8. GRADE, SHAPE, AND RE—COMPACT THE EXISTING ROAD BASE AS REQUIRED, AND AS DIRECTED BY THE ENGINEER.
- 9. PAVE 2 INCHES OF THE BITUMINOUS MIX AS SPECIFIED OR DIRECTED, AS THE LEVELING COURSE, IN ONE LIFT.
- 10. ADJUST ALL STRUCTURE COVERS, MONUMENT BOXES, AND VALVE BOXES TO THEIR FINISHED ELEVATIONS.
- 11. PAVE 1 INCH OF THE BITUMINOUS MIX AS SPECIFIED OR DIRECTED, AS THE WEARING COURSE, IN ONE LIFT.
- 12. COMPLETE ALL PAVEMENT MARKINGS IN ACCORDANCE WITH THE PLANS, AND AS DIRECTED BY THE ENGINEER.
- 13. COMPLETE ALL MISCELLANEOUS CONSTRUCTION INCLUDING ALL CLEAN-UP AND FINAL RESTORATION.
- 14. REMOVE ALL TRAFFIC CONTROL DEVICES. REMOVE MISS DIG FLAGS.

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 ARBOF PUBLIC SERVICES 301 EAST HURON STREET P.O. BOX 8647 ANN ARBOR, MI 48107-864 734-794-6410 www.a2gov.org



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SING/RESTORATION PRINARD RD & NORMANDY RD

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GINEERING - PUE

DRAWING No.

No.



PROJECT LOCATION: BARRINGTON PL

ITB No. BID NO FILE No. 2020-004

Item Code	QUANTITIES Item Description	Unit	Quantity
2030011	Dr Structure, Rem	Ea	7.00
2030015	Sewer, Rem, Less than 24 inch	Ft	70.00
2047001	Curb, Gutter, and Curb and Gutter, Any Type, Rem	Ft	776.00
2047011		Syd	63.55
2057011	_Grading, Driveway Approach	Syd	51.33
2057011	_Grading, Sidewalk Ramp	Syd	12.22
2057011	_Machine Grading, Special	Syd	2,943.34
2057021	_Subgrade Undercutting, Type IIA	Cyd	276.63
2080020	Erosion Control, Inlet Protection, Fabric Drop	Ea	7.00
4020987	Sewer, Cl IV, 12 inch, Tr Det B	Ft	70.00
4030200	Dr Structure, 24 inch dia	Ea	7.00
4037050	_Dr Structure Cover, Type B, Modified	Ea	3.00
4037050	_Dr Structure Cover, Type K, Modified	Ea	7.00
4037050	_Dr Structure, Adj, Case 1, Modified	Ea	11.00
4047001	_Underdrain, Subgrade, 6 inch, Special	Ft	140.00
5010002	Cold Milling HMA Surface	Syd	2,944.00
5010005	HMA Surface, Rem	Syd	86.22
5010703	HMA, LVSP	Ton	680.00
6027021	_Flowable Fill	Cyd	21.55
8017011	_Driveway, Nonreinf Conc, 6 inch, Modified	Syd	51.33
8027001	_Curb and Gutter, Conc, Barrier	Ft	354.00
8027001	_Driveway Opening, Conc, Det M, Modified	Ft	398.00
8037010	_Sidewalk Ramp, Conc, 6 inch, Modified	Sft	110.00
8110197	Pavt Mrkg, Thermopl, 6 inch, Crosswalk	Ft	67.00
8120012	Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	Ea	4.00
8120013	Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	Ea	4.00
8120250	Plastic Drum, High Intensity, Furn	Ea	15.00
8120251	Plastic Drum, High Intensity, Oper	Ea	15.00
8120350	Sign, Type B, Temp, Prismatic, Furn	Sft	70.00
8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	70.00
8120352	Sign, Type B, Temp, Prismatic, Special, Furn	Sft	20.00
8120353	Sign, Type B, Temp, Prismatic, Special, Oper	Sft	20.00
8127050	_Pedestrian Type II Barricade, Temp	Ea	2.00
8127050	_Temporary No Parking Sign	Ea	23.71
8167011	_Slope Restoration	Syd	310.40

	QUANTITIES						
		Sign, Type B, Temp, Prismatic & *Sign, Type B, Temp, Prismatic, Special					
Quantity	Sign Code	Description	Area (sft)	Total Area (Sft)			
5.0	*D3-1	Street Name Sign	4.000	20.000			
5.0	W20-1	Road Work Ahead Sign	9.000	45.000			
2.0	R11-3a	Road Closed Local Traffic Only	12.500	25.000			
			TOTAL	90.000			

CONSTRUCTION METHOD AND SEQUENCING

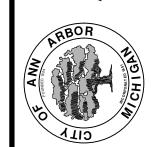
- INSTALL ANY PROPOSED STORM SEWER, AND UNDERDRAIN AS SHOWN ON THE PLANS, AND AS
- STRUCTURE COVERS, INCLUDING VALVE AND MONUMENT BOXES

- GRADE, SHAPE, AND RE-COMPACT THE EXISTING ROAD BASE AS REQUIRED, AND AS DIRECTED BY THE
- 9. PAVE 2 INCHES OF THE BITUMINOUS MIX AS SPECIFIED OR DIRECTED, AS THE LEVELING COURSE, IN
- 10. ADJUST ALL STRUCTURE COVERS, MONUMENT BOXES, AND VALVE BOXES TO THEIR FINISHED ELEVATIONS.
- 11. PAVE 1 INCH OF THE BITUMINOUS MIX AS SPECIFIED OR DIRECTED, AS THE WEARING COURSE, IN ONE
- 12. COMPLETE ALL PAVEMENT MARKINGS IN ACCORDANCE WITH THE PLANS, AND AS DIRECTED BY THE
- 13. COMPLETE ALL MISCELLANEOUS CONSTRUCTION INCLUDING ALL CLEAN—UP AND FINAL RESTORATION.
- 14. REMOVE ALL TRAFFIC CONTROL DEVICES. REMOVE MISS DIG FLAGS.

NOTES:

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PROJECT LOCATION: DUNMORE RD

ITB No. BID NO FILE No. 2020-004

	QUANTITIES		
Item Code	Item Description	Unit	Quantity
2030011	Dr Structure, Rem	Ea	8.000
2030015	Sewer, Rem, Less than 24 inch	Ft	80.000
2047001	_Curb, Gutter, and Curb and Gutter, Any Type, Rem	Ft	717.000
2047011	_Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	Syd	95.920
2057011	_Grading, Driveway Approach	Syd	84.000
2057011	_Grading, Sidewalk	Syd	5.556
2057011	_Grading, Sidewalk Ramp	Syd	6.667
2080020	Erosion Control, Inlet Protection, Fabric Drop	Ea	12.000
4020987	Sewer, Cl IV, 12 inch, Tr Det B	Ft	80.000
4030200	Dr Structure, 24 inch dia	Ea	8.000
4037050	_Dr Structure Cover, Type K, Modified	Ea	8.000
4037050	_Dr Structure, Adj, Case 1, Modified	Ea	8.000
4047001	_Underdrain, Subgrade, 6 inch, Special	Ft	160.000
5010002	Cold Milling HMA Surface	Syd	3,402.000
5010005	HMA Surface, Rem	Syd	79.667
5017011	_Cold Milling for Concrete Curb and Gutter Reveal	Syd	166.670
6027021	_Flowable Fill	Cyd	19.917
8017011	_Driveway, Nonreinf Conc, 6 inch, Modified	Syd	84.000
8027001	_Curb and Gutter, Conc, Barrier	Ft	205.000
8027001	_Driveway Opening, Conc, Det M, Modified	Ft	500.000
8030030	Curb Ramp Opening, Conc	Ft	14.000
8037001	_Detectable Warning Surface, Modified	Ft	10.000
8037010	_Sidewalk Ramp, Conc, 6 inch, Modified	Sft	60.000
8037010	_Sidewalk, Conc, 6 inch, Modified	Sft	50.000
8110197	Pavt Mrkg, Thermopl, 6 inch, Crosswalk	Ft	65.000
8110218	Pavt Mrkg, Thermopl, 24 inch, Stop Bar	Ft	15.000
8120012	Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	Ea	2.000
8120013	Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	Ea	2.000
8120250	Plastic Drum, High Intensity, Furn	Ea	15.000
8120251	Plastic Drum, High Intensity, Oper	Ea	15.000
8120350	Sign, Type B, Temp, Prismatic, Furn	Sft	79.000
8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	79.000
8120352	Sign, Type B, Temp, Prismatic, Special, Furn	Sft	24.000
8120353	Sign, Type B, Temp, Prismatic, Special, Oper	Sft	24.000
8127050	_Temporary No Parking Sign	Ea	30.429
8167011	_Slope Restoration	Syd	286.800
8507050	_HMA Surface, Around Structure Cover, Rem	Ea	11.000

	QUANTITIES Sign, Type B, Temp, Prismatic & *Sign, Type B, Temp, Prismatic, Special			
Quantity	Sign Code	Description	Area (sft)	Total Area (Sft)
6.0	*D3-1	Street Name Sign	4.000	24.000
6.0	W20-1	Road Work Ahead Sign	9.000	54.000
2.0	R11-3a	Road Closed Local Traffic Only	12.500	25.000
			TOTAL	103.000
			TOTAL	103.0

CONSTRUCTION METHOD AND SEQUENCING

- INSTALL ANY PROPOSED STORM SEWER, AND UNDERDRAIN AS SHOWN ON THE PLANS, AND AS
- STRUCTURE COVERS, INCLUDING VALVE AND MONUMENT BOXES

- GRADE, SHAPE, AND RE-COMPACT THE EXISTING ROAD BASE AS REQUIRED, AND AS DIRECTED BY THE
- 9. PAVE 2 INCHES OF THE BITUMINOUS MIX AS SPECIFIED OR DIRECTED, AS THE LEVELING COURSE, IN
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- 14. REMOVE ALL TRAFFIC CONTROL DEVICES. REMOVE MISS DIG FLAGS.

NOTES:

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PROJECT LOCATION: DUNMORE RD

ITB No. BID NO FILE No. 2020-004

	QUANTITIES		
Item Code	Item Description	Unit	Quantity
2030011	Dr Structure, Rem	Ea	3.00
2030015	Sewer, Rem, Less than 24 inch	Ft	30.00
2047001	_Curb, Gutter, and Curb and Gutter, Any Type, Rem	Ft	310.00
2047011	_Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	Syd	96.11
2057011	_Grading, Driveway Approach	Syd	92.00
2057011	_Grading, Sidewalk Ramp	Syd	4.00
2057011	_Machine Grading, Special	Syd	1,891.00
2057021	_Subgrade Undercutting, Type IIA	Cyd	185.98
2080020	Erosion Control, Inlet Protection, Fabric Drop	Ea	6.00
4020987	Sewer, Cl IV, 12 inch, Tr Det B	Ft	30.00
4030200	Dr Structure, 24 inch dia	Ea	3.00
4037050	_Dr Structure Cover, Type B, Modified	Ea	1.00
4037050	_Dr Structure Cover, Type K, Modified	Ea	3.00
4037050	_Dr Structure, Adj, Case 1, Modified	Ea	4.00
4037050	_Dr Structure, Temp Lowering, Modified	Ea	1.00
4047001	_Underdrain, Subgrade, 6 inch, Special	Ft	60.00
5010002	Cold Milling HMA Surface	Syd	1,891.00
5010005	HMA Surface, Rem	Syd	34.44
5010057	HMA, 5E3	Ton	220.00
5010703	HMA, LVSP	Ton	220.00
6027021	_Flowable Fill	Cyd	8.61
8017011	_Driveway, Nonreinf Conc, 6 inch, Modified	Syd	92.00
8027001	_Curb and Gutter, Conc, Barrier	Ft	70.00
8027001	_Driveway Opening, Conc, Det M, Modified	Ft	234.00
8030030	Curb Ramp Opening, Conc	Ft	7.00
8037001	_Detectable Warning Surface, Modified	Ft	5.00
8037010	_Sidewalk Ramp, Conc, 6 inch, Modified	Sft	36.00
8110049	Pavt Mrkg, Ovly Cold Plastic, Direction Arrow Sym, Bike	Ea	2.00
8110058	Pavt Mrkg, Ovly Cold Plastic, Bike, Small Sym	Ea	2.00
8110079	Pavt Mrkg, Ovly Cold Plastic, Sharrow Symbol	Ea	1.00
8110196	Pavt Mrkg, Thermopl, 4 inch, Yellow	Ft	820.00
8110198	Pavt Mrkg, Thermopl, 6 inch, White	Ft	760.00
8110214	Pavt Mrkg, Thermopl, 12 inch, Crosswalk	Ft	96.00
8110218	Pavt Mrkg, Thermopl, 24 inch, Stop Bar	Ft	16.00
8120012	Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	Ea	4.00
8120013	Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	Ea	4.00
8120250	Plastic Drum, High Intensity, Furn	Ea	15.00
8120251	Plastic Drum, High Intensity, Oper	Ea	15.00
8120350	Sign, Type B, Temp, Prismatic, Furn	Sft	61.00
8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	61.00
8120352	Sign, Type B, Temp, Prismatic, Special, Furn	Sft	16.00
8120353	Sign, Type B, Temp, Prismatic, Special, Oper	Sft	16.00
8127050	_Pedestrian Type II Barricade, Temp	Ea	2.00
8127050	Temporary No Parking Sign	Ea	15.94
8167011	_Slope Restoration	Syd	124.00

		QUANTITIES		
	;	Sign, Type B, Temp, Prismatic & *Sign, Type B, Temp, Prismatic, Special		
Quantity	Sign Code	Description	Area (sft)	Total Area (Sft)
4.0	*D3-1	Street Name Sign	4.000	16.000
4.0	W20-1	Road Work Ahead Sign	9.000	36.000
2.0	R11-3a	Road Closed Local Traffic Only	12.500	25.000
			TOTAL	77.000

CONSTRUCTION METHOD AND SEQUENCING

- INSTALL ANY PROPOSED STORM SEWER, AND UNDERDRAIN AS SHOWN ON THE PLANS, AND AS
- STRUCTURE COVERS, INCLUDING VALVE AND MONUMENT BOXES

- GRADE, SHAPE, AND RE-COMPACT THE EXISTING ROAD BASE AS REQUIRED, AND AS DIRECTED BY THE
- 9. PAVE 2 INCHES OF THE BITUMINOUS MIX AS SPECIFIED OR DIRECTED, AS THE LEVELING COURSE, IN
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- 14. REMOVE ALL TRAFFIC CONTROL DEVICES. REMOVE MISS DIG FLAGS.

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PROJECT LOCATION: WINSTED BLVD

ITB No. BID NO FILE No. 2020-004

Item Code	QUANTITIES Item Description	Unit	Quantity
2030011	Dr Structure, Rem	Ea	9.000
2030015	Sewer, Rem, Less than 24 inch	Ft	90.000
2047001	_Curb, Gutter, and Curb and Gutter, Any Type, Rem	Ft	173.000
2047011		Syd	13.330
2057011	Grading, Sidewalk Ramp	Syd	13.333
2057011		Syd	4,112.000
2057021	Subgrade Undercutting, Type IIA	Cyd	403.960
2080020	Erosion Control, Inlet Protection, Fabric Drop	Ea	20.000
4020987	Sewer, Cl IV, 12 inch, Tr Det B	Ft	90.000
4030200	Dr Structure, 24 inch dia	Ea	9.000
4037050	_Dr Structure Cover, Type K, Modified	Ea	9.000
4037050	_Dr Structure, Adj, Case 1, Modified	Ea	16.000
4037050	_Dr Structure, Temp Lowering, Modified	Ea	9.000
4047001	_Underdrain, Subgrade, 6 inch, Special	Ft	180.000
5010002	Cold Milling HMA Surface	Syd	4,112.000
5010005	HMA Surface, Rem	Syd	19.222
5010703	HMA, LVSP	Ton	950.000
5017011	_Cold Milling for Concrete Curb and Gutter Reveal	Syd	40.000
6027021	_Flowable Fill	Cyd	4.806
8027001	_Curb and Gutter, Conc, Barrier	Ft	128.000
8030030	Curb Ramp Opening, Conc	Ft	28.000
8037001	_Detectable Warning Surface, Modified	Ft	20.000
8037010	_Sidewalk Ramp, Conc, 6 inch, Modified	Sft	120.000
8120012	Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	Ea	14.000
8120013	Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	Ea	14.000
8120250	Plastic Drum, High Intensity, Furn	Ea	15.000
8120251	Plastic Drum, High Intensity, Oper	Ea	15.000
8120350	Sign, Type B, Temp, Prismatic, Furn	Sft	160.000
8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	160.000
8120352	Sign, Type B, Temp, Prismatic, Special, Furn	Sft	32.000
8120353	Sign, Type B, Temp, Prismatic, Special, Oper	Sft	32.000
8127050	_Pedestrian Type II Barricade, Temp	Ea	8.000
8127050	_Temporary No Parking Sign	Ea	34.629
8167011	_Slope Restoration	Syd	69.200
8230431	Gate Box, Adj, Case 1	Ea	2.000

QUANTITIES Sign, Type B, Temp, Prismatic & *Sign, Type B, Temp, Prismatic, Special				
Quantity	Sign Code	Description	Area (sft)	Total Area (Sft)
8.0	*D3-1	Street Name Sign	4.000	32.000
8.0	W20-1	Road Work Ahead Sign	9.000	72.000
7.0	R11-3a	Road Closed Local Traffic Only	12.500	88.000
			TOTAL	192.000

CONSTRUCTION METHOD AND SEQUENCING

- 1. THE WORK TO BE COMPLETED ON THIS STREET SHALL INCLUDE, BUT NOT BE LIMITED TO THE FOLLOWING ITEMS. THE ORDER OF CONSTRUCTION SHALL BE AS GIVEN UNLESS OTHERWISE AUTHORIZOR DIRECTED BY THE ENGINEER
- 2. IMPLEMENT TRAFFIC MAINTENANCE, AND SOIL EROSION CONTROLS IN ACCORDANCE WITH THE PLAI AND AS DIRECTED BY THE ENGINEER.
- 3. INSTALL ANY PROPOSED STORM SEWER, AND UNDERDRAIN AS SHOWN ON THE PLANS, AND AS DIRECTED BY THE ENGINEER.
- 4. LOWER ALL STRUCTURE COVERS, INCLUDING VALVE AND MONUMENT BOXES
- PERFORM ALL CONCRETE WORK, INCLUDING RESTORATION, IN ACCORDANCE WITH THE PLANS, AND AS DIRECTED BY THE ENGINEER.
- 6. MILL 3 INCHES OF BITUMINOUS MATERIAL FROM EXISTING ROADWAY. THIS MAY INCLUDE GRANULAR ROAD BASE MATERIAL. DEPTH TO BE DETERMINED BY THE ENGINEER. PROOF ROLL WITH FULL TRUCK
- 7. PERFORM UNDERCUTS AND/OR BASE REPAIRS AS DIRECTED BY THE ENGINEE
- 8. GRADE, SHAPE, AND RE—COMPACT THE EXISTING ROAD BASE AS REQUIRED, AND AS DIRECTED BY THI ENGINEER.
- 9. PAVE 2 INCHES OF THE BITUMINOUS MIX AS SPECIFIED OR DIRECTED, AS THE LEVELING COURSE, IN ONE LIFT.
- 10. ADJUST ALL STRUCTURE COVERS, MONUMENT BOXES, AND VALVE BOXES TO THEIR FINISHED ELEVATIONS.
- 11. PAVE 1 INCH OF THE BITUMINOUS MIX AS SPECIFIED OR DIRECTED, AS THE WEARING COURSE, IN ONE LIFT.
- 12. COMPLETE ALL PAVEMENT MARKINGS IN ACCORDANCE WITH THE PLANS, AND AS DIRECTED BY THE ENGINEER.
- 13. COMPLETE ALL MISCELLANEOUS CONSTRUCTION INCLUDING ALL CLEAN-UP AND FINAL RESTORATION.
- 14. REMOVE ALL TRAFFIC CONTROL DEVICES. REMOVE MISS DIG FLAGS.

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 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.

O3/05/2020 GS,CE DAD Know what's belove you

ITY OF ANN ARBOR
PUBLIC SERVICES
11 EAST HURON STREET
P.O. BOX 8647
IN ARBOR, MI 48107-8647
734-794-6410
www.a2gov.org



- 2020 CIT OF AN

STORATION PROJECT WINSTED BLVD

SEKVICES - ENGIN RESURFACING/REST DUNMORE RD & V

N ARBOR - PUBLIC S STREET RE

ITY OF ANN ARE

DRAWING No.

LI NO.



PROJECT LOCATION: BRAESIDE PL

ITB No. BID NO FILE No. 2020-004

Item Code	QUANTITIES Itom Description	Unit	Quantiti
	Item Description		Quantity
2047001 2047011	_Curb, Gutter, and Curb and Gutter, Any Type, Rem	Ft	53.00
	_Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	Syd	7.33
2057011	_Grading, Driveway Approach	Syd	7.33
2057011	_Machine Grading, Special	Syd	2,027.44
2057021	_Subgrade Undercutting, Type IIA	Cyd	149.98
2080020	Erosion Control, Inlet Protection, Fabric Drop	Ea	6.00
4037050	_Dr Structure Cover, Type K, Modified	Ea	4.00
4037050	_Dr Structure, Adj, Case 1, Modified	Ea	4.00
5010002	Cold Milling HMA Surface	Syd	2,028.00
5010005	HMA Surface, Rem	Syd	5.88
5010057	HMA, 5E3	Ton	240.00
5010703	HMA, LVSP	Ton	240.00
6027021	_Flowable Fill	Cyd	1.47
8017011	_Driveway, Nonreinf Conc, 6 inch, Modified	Syd	7.33
8027001	_Curb and Gutter, Conc, Barrier	Ft	20.00
8027001	_Driveway Opening, Conc, Det M, Modified	Ft	33.00
8110049	Pavt Mrkg, Ovly Cold Plastic, Direction Arrow Sym, Bike	Ea	2.00
8110058	Pavt Mrkg, Ovly Cold Plastic, Bike, Small Sym	Ea	2.00
8110079	Pavt Mrkg, Ovly Cold Plastic, Sharrow Symbol	Ea	1.00
8110196	Pavt Mrkg, Thermopl, 4 inch, Yellow	Ft	820.00
8110198	Pavt Mrkg, Thermopl, 6 inch, White	Ft	760.00
8110214	Pavt Mrkg, Thermopl, 12 inch, Crosswalk	Ft	96.00
8110218	Pavt Mrkg, Thermopl, 24 inch, Stop Bar	Ft	16.00
8120012	Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	Ea	2.00
8120013	Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	Ea	2.00
8120250	Plastic Drum, High Intensity, Furn	Ea	15.00
8120251	Plastic Drum, High Intensity, Oper	Ea	15.00
8120350	Sign, Type B, Temp, Prismatic, Furn	Sft	31.00
8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	31.00
8120352	Sign, Type B, Temp, Prismatic, Special, Furn	Sft	8.00
8120353	Sign, Type B, Temp, Prismatic, Special, Oper	Sft	8.00
8127050	Temporary No Parking Sign	Ea	12.85
8167011	Slope Restoration	Syd	21.20

	QUANTITIES Sign, Type B, Temp, Prismatic & *Sign, Type B, Temp, Prismatic, Special				
Quantity	Sign Code	Description	Area (sft)	Total Area (Sft)	
2.0	*D3-1	Street Name Sign	4.000	8.000	
2.0	W20-1	Road Work Ahead Sign	9.000	18.000	
1.0	R11-3a	Road Closed Local Traffic Only	12.500	13.000	
			TOTAL	39.000	

CONSTRUCTION METHOD AND SEQUENCING

- 1. THE WORK TO BE COMPLETED ON THIS STREET SHALL INCLUDE, BUT NOT BE LIMITED TO THE FOLLOWING ITEMS. THE ORDER OF CONSTRUCTION SHALL BE AS GIVEN UNLESS OTHERWISE AUTHORIZED OR DIRECTED BY THE ENGINEER
- 2. IMPLEMENT TRAFFIC MAINTENANCE, AND SOIL EROSION CONTROLS IN ACCORDANCE WITH THE PLAI AND AS DIRECTED BY THE ENGINEER.
- 3. INSTALL ANY PROPOSED STORM SEWER, AND UNDERDRAIN AS SHOWN ON THE PLANS, AND AS DIRECTED BY THE ENGINEER.
- 4. LOWER ALL STRUCTURE COVERS, INCLUDING VALVE AND MONUMENT BOXES
- 5. PERFORM ALL CONCRETE WORK, INCLUDING RESTORATION, IN ACCORDANCE WITH THE PLANS, AND AS DIRECTED BY THE ENGINEER.
- 6. MILL 3 INCHES OF BITUMINOUS MATERIAL FROM EXISTING ROADWAY. THIS MAY INCLUDE GRANULAR ROAD BASE MATERIAL. DEPTH TO BE DETERMINED BY THE ENGINEER. PROOF ROLL WITH FULL TRUCK
- 7. PERFORM UNDERCUTS AND/OR BASE REPAIRS AS DIRECTED BY THE ENGINEE
- 8. GRADE, SHAPE, AND RE-COMPACT THE EXISTING ROAD BASE AS REQUIRED, AND AS DIRECTED BY THE ENGINEER.
- 9. PAVE 2 INCHES OF THE BITUMINOUS MIX AS SPECIFIED OR DIRECTED, AS THE LEVELING COURSE, IN ONE LIFT.
- 10. ADJUST ALL STRUCTURE COVERS, MONUMENT BOXES, AND VALVE BOXES TO THEIR FINISHED ELEVATIONS.
- 11. PAVE 1 INCH OF THE BITUMINOUS MIX AS SPECIFIED OR DIRECTED, AS THE WEARING COURSE, IN ONE LIFT.
- 12. COMPLETE ALL PAVEMENT MARKINGS IN ACCORDANCE WITH THE PLANS, AND AS DIRECTED BY THE ENGINEER.
- 13. COMPLETE ALL MISCELLANEOUS CONSTRUCTION INCLUDING ALL CLEAN-UP AND FINAL RESTORATION.
- 14. REMOVE ALL TRAFFIC CONTROL DEVICES. REMOVE MISS DIG FLAGS.

NOTES:

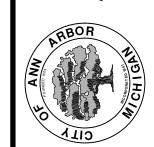
FOR PROTECTION OF UNDERGROUND UTILITIES AND IN CONFORMANCE WITH PUBLIC ACT 174 OF 2013, THE CONTRACTOR SHALL CALL 811 OR 1-800-482-7171 A MINIMUM OF THREE FULL WORKING DAYS, EXCLUDING SATURDAYS, SUNDAYS, AND HOLIDAYS, PRIOR TO BEGINNING EACH EXCAVATION IN AREAS WHERE PUBLIC UTILITIES HAVE NOT BEEN PREVIOUSLY 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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03/05/2020 GS,CE DAD Know what's **belk**DATE DRAWN CHECKED

CITY OF ANN ARBOR
PUBLIC SERVICES
301 EAST HURON STREET
P.O. BOX 8647
NN ARBOR, MI 48107-8647
734-734-6410
www.a2gov.org



R ON PROJECT - 2020 HINGTON PL

ING/RESTORATION FOR CHAUCER DR & WORTHINGT

ET RESURFACING
BRAESIDE PL CH

UBLIC SERVICES

GINEERING - PU

SCALE
DRAWING No.

No.



PROJECT LOCATION: CHAUCER DR

ITB No. BID NO FILE No. 2020-004

Item Code	Item Description	Unit	Quantity
2030011	Dr Structure, Rem	Ea	1.00
2030015	Sewer, Rem, Less than 24 inch	Ft	10.00
2047001	_Curb, Gutter, and Curb and Gutter, Any Type, Rem	Ft	466.00
2047011	_Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	Syd	52.21
2057011	_Grading, Driveway Approach	Syd	44.00
2057011	_Grading, Sidewalk	Syd	8.33
2080020	Erosion Control, Inlet Protection, Fabric Drop	Ea	18.00
4020987	Sewer, Cl IV, 12 inch, Tr Det B	Ft	10.00
4030200	Dr Structure, 24 inch dia	Ea	1.00
4037050	_Dr Structure Cover, Type B, Modified	Ea	1.00
4037050	_Dr Structure Cover, Type C, Modified	Ea	1.00
4037050	_Dr Structure Cover, Type K, Modified	Ea	3.00
4037050	_Dr Structure, Adj, Case 1, Modified	Ea	5.00
4047001	_Underdrain, Subgrade, 6 inch, Special	Ft	20.00
5010002	Cold Milling HMA Surface	Syd	6,030.00
5010005	HMA Surface, Rem	Syd	51.77
5010703	HMA, LVSP	Ton	700.00
5017011	_Cold Milling for Concrete Curb and Gutter Reveal	Syd	3.98
5017031	_HMA, Wedging, 36A	Ton	8.00
6027021	_Flowable Fill	Cyd	12.94
8017011	_Driveway, Nonreinf Conc, 6 inch, Modified	Syd	44.00
8027001	_Curb and Gutter, Conc, Barrier	Ft	35.00
8027001	_Driveway Opening, Conc, Det M, Modified	Ft	431.00
8037010	_Sidewalk, Conc, 6 inch, Modified	Sft	75.00
8120012	Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	Ea	10.00
8120013	Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	Ea	10.00
8120250	Plastic Drum, High Intensity, Furn	Ea	15.00
8120251	Plastic Drum, High Intensity, Oper	Ea	15.00
8120350	Sign, Type B, Temp, Prismatic, Furn	Sft	95.00
8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	95.00
8120352	Sign, Type B, Temp, Prismatic, Special, Furn	Sft	20.00
8120353	Sign, Type B, Temp, Prismatic, Special, Oper	Sft	20.00
8127050	_Temporary No Parking Sign	Ea	49.71
8167011	_Slope Restoration	Syd	186.40
8507050	_HMA Surface, Around Structure Cover, Rem	Ea	17.00

QUANTITIES Sign, Type B, Temp, Prismatic & *Sign, Type B, Temp, Prismatic, Special					
Quantity	Sign Code	Description	Area (sft)	Total Area (Sft)	
5.0	*D3-1	Street Name Sign	4.000	20.000	
5.0	W20-1	Road Work Ahead Sign	9.000	45.000	
4.0	R11-3a	Road Closed Local Traffic Only	12.500	50.000	
			TOTAL	115.000	

CONSTRUCTION METHOD AND SEQUENCING

- INSTALL ANY PROPOSED STORM SEWER, AND UNDERDRAIN AS SHOWN ON THE PLANS, AND AS
- STRUCTURE COVERS, INCLUDING VALVE AND MONUMENT BOXES

- GRADE, SHAPE, AND RE-COMPACT THE EXISTING ROAD BASE AS REQUIRED, AND AS DIRECTED BY THE
- 9. PAVE 2 INCHES OF THE BITUMINOUS MIX AS SPECIFIED OR DIRECTED, AS THE LEVELING COURSE, IN
- 10. ADJUST ALL STRUCTURE COVERS, MONUMENT BOXES, AND VALVE BOXES TO THEIR FINISHED ELEVATIONS.
- 11. PAVE 1 INCH OF THE BITUMINOUS MIX AS SPECIFIED OR DIRECTED, AS THE WEARING COURSE, IN ONE
- 12. COMPLETE ALL PAVEMENT MARKINGS IN ACCORDANCE WITH THE PLANS, AND AS DIRECTED BY THE
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- 14. REMOVE ALL TRAFFIC CONTROL DEVICES. REMOVE MISS DIG FLAGS.

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PROJECT LOCATION: WORTHINGTON PL

ITB No. BID NO FILE No. 2020-004

	QUANTITIES		
Item Code	Item Description	Unit	Quantity
2030011	Dr Structure, Rem	Ea	2.000
2030015	Sewer, Rem, Less than 24 inch	Ft	20.000
2047001	_Curb, Gutter, and Curb and Gutter, Any Type, Rem	Ft	60.000
2047011	_Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	Syd	6.660
2080020	Erosion Control, Inlet Protection, Fabric Drop	Ea	3.000
4020987	Sewer, Cl IV, 12 inch, Tr Det B	Ft	20.000
4030200	Dr Structure, 24 inch dia	Ea	2.000
4037050	_Dr Structure Cover, Type K, Modified	Ea	2.000
4037050	_Dr Structure, Adj, Case 1, Modified	Ea	2.000
4047001	_Underdrain, Subgrade, 6 inch, Special	Ft	40.000
5010002	Cold Milling HMA Surface	Syd	1,449.000
5010005	HMA Surface, Rem	Syd	6.667
5010703	HMA, LVSP	Ton	170.000
6027021	_Flowable Fill	Cyd	1.667
8027001	_Curb and Gutter, Conc, Barrier	Ft	60.000
8110197	Pavt Mrkg, Thermopl, 6 inch, Crosswalk	Ft	66.000
8120012	Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	Ea	2.000
8120013	Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	Ea	2.000
8120250	Plastic Drum, High Intensity, Fum	Ea	15.000
8120251	Plastic Drum, High Intensity, Oper	Ea	15.000
8120350	Sign, Type B, Temp, Prismatic, Furn	Sft	31.000
8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	31.000
8120352	Sign, Type B, Temp, Prismatic, Special, Furn	Sft	8.000
8120353	Sign, Type B, Temp, Prismatic, Special, Oper	Sft	8.000
8127050	_Temporary No Parking Sign	Ea	7.714
8167011	_Slope Restoration	Syd	24.000
8507050	_HMA Surface, Around Structure Cover, Rem	Ea	2.000

		QUANTITIES		
		Sign, Type B, Temp, Prismatic & *Sign, Type B, Temp, Prismatic, Special		
Quantity	Sign Code	Description	Area (sft)	Total Area (Sft)
2.0	*D3-1	Street Name Sign	4.000	8.000
2.0	W20-1	Road Work Ahead Sign	9.000	18.000
1.0	R11-3a	Road Closed Local Traffic Only	12.500	13.000
			TOTAL	39.000

CONSTRUCTION METHOD AND SEQUENCING

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- 6. MILL 3 INCHES OF BITUMINOUS MATERIAL FROM EXISTING ROADWAY. THIS MAY INCLUDE GRANULAR ROAD BASE MATERIAL. DEPTH TO BE DETERMINED BY THE ENGINEER. PROOF ROLL WITH FULL TRUCK
- 7. PERFORM UNDERCUTS AND/OR BASE REPAIRS AS DIRECTED BY THE ENGINEER.
- 8. GRADE, SHAPE, AND RE-COMPACT THE EXISTING ROAD BASE AS REQUIRED, AND AS DIRECTED BY THE ENGINEER.
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- 14. REMOVE ALL TRAFFIC CONTROL DEVICES. REMOVE MISS DIG FLAGS.

NOTES

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Know what's below.

Call before you dig.

			DAD	DRAWN CHECKED	
			GS,CE	DRAWN	
			03/02/5070	DATE	
			BID SET	DESCRIPTION	
			0	·	





T - 2020

ESTORATION PROJEC

F RESURFACING/RE

BRAESIDE PL CHAUCE

UBLIC SERVICES STREET RESUI

INEERING - PUB

SCALE



PROJECT LOCATION: CAROL DR

ITB No. BID NO FILE No. 2020-004

Item Code	Item Description	Unit	Quantity
2030011	Dr Structure, Rem	Ea	3.00
2030015	Sewer, Rem, Less than 24 inch	Ft	30.00
2047001	_Curb, Gutter, and Curb and Gutter, Any Type, Rem	Ft	269.00
2047011	_Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	Syd	52.65
2057011	_Grading, Driveway Approach	Syd	32.66
2057011	_Grading, Sidewalk Ramp	Syd	17.22
2080020	Erosion Control, Inlet Protection, Fabric Drop	Ea	5.00
4020987	Sewer, Cl IV, 12 inch, Tr Det B	Ft	30.00
4030200	Dr Structure, 24 inch dia	Ea	3.00
4037050	_Dr Structure Cover, Type K, Modified	Ea	3.00
4037050	_Dr Structure, Adj, Case 1, Modified	Ea	3.00
4047001	_Underdrain, Subgrade, 6 inch, Special	Ft	60.00
5010002	Cold Milling HMA Surface	Syd	1,274.00
5010005	HMA Surface, Rem	Syd	29.88
5010703	HMA, LVSP	Ton	150.00
5017011	_Cold Milling for Concrete Curb and Gutter Reveal	Syd	120.33
6027021	_Flowable Fill	Cyd	7.47
8017011	_Driveway, Nonreinf Conc, 6 inch, Modified	Syd	32.66
8027001	_Curb and Gutter, Conc, Barrier	Ft	50.00
8027001	_Driveway Opening, Conc, Det M, Modified	Ft	195.00
8030030	Curb Ramp Opening, Conc	Ft	14.00
8037001	_Detectable Warning Surface, Modified	Ft	10.00
8037010	_Sidewalk Ramp, Conc, 6 inch, Modified	Sft	155.00
8110197	Pavt Mrkg, Thermopl, 6 inch, Crosswalk	Ft	75.00
8110218	Pavt Mrkg, Thermopl, 24 inch, Stop Bar	Ft	16.00
8120012	Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	Ea	4.00
8120013	Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	Ea	4.00
8120250	Plastic Drum, High Intensity, Furn	Ea	15.00
8120251	Plastic Drum, High Intensity, Oper	Ea	15.00
8120350	Sign, Type B, Temp, Prismatic, Furn	Sft	61.00
8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	61.00
8120352	Sign, Type B, Temp, Prismatic, Special, Furn	Sft	16.00
8120353	Sign, Type B, Temp, Prismatic, Special, Oper	Sft	16.00
8127050	_Pedestrian Type II Barricade, Temp	Ea	4.00
8127050	_Temporary No Parking Sign	Ea	11.17
8167011	_Slope Restoration	Syd	107.60
8507050	_HMA Surface, Around Structure Cover, Rem	Ea	2.00

QUANTITIES									
Sign, Type B, Temp, Prismatic & *Sign, Type B, Temp, Prismatic, Special									
Quantity	Sign Code	Description	Area (sft)	Total Area (Sft)					
4.0	*D3-1	Street Name Sign	4.000	16.000					
4.0	W20-1	Road Work Ahead Sign	9.000	36.000					
2.0	R11-3a	Road Closed Local Traffic Only	12.500	25.000					
			TOTAL	77.000					

CONSTRUCTION METHOD AND SEQUENCING

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DESCRIPTION

DATE

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PROJECT LOCATION: STEPHEN TER

ITB No. BID NO FILE No. 2020-004

CONSTRUCTION METHOD AND SEQUENCING

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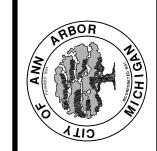
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Call before

PUBLIC SERVICES
PUBLIC SERVICES
II EAST HURON STREET
P.O. BOX 8647
IN ARBOR, MI 48107-8647
734-794-6410
www.a2gov.org



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PROJECT LOCATION: WIMPOLE ST

ITB No. BID NO FILE No.2020-004

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PROJECT LOCATION: SUE PKWY

ITB No. BID NO FILE No. 2020-004

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Know what's below.

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		GS,CE	DRAWN
		03/02/5070	DATE
		BID SET	DESCRIPTION

CITY OF ANN ARBOR PUBLIC SERVICES 301 EAST HURON STREET P.O. BOX 8647 ANN ARBOR, MI 48107-8647 734-794-6410 www.a2gov.org



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PROJECT LOCATION: CORONADA ST

ITB No. BID NO FILE No. 2020-004

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CITY OF ANN ARBOR PUBLIC SERVICES 301 EAST HURON STREET P.O. BOX 8647 ANN ARBOR, MI 48107-8647 734-794-6410 www.a2gov.org



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PROJECT LOCATION: DICKEN DR

ITB No. BID NO FILE No. 2020-004

.,	QUANTITIES		
Item Code	Item Description	Unit	Quantity
2030011	Dr Structure, Rem	Ea	10.000
2030015	Sewer, Rem, Less than 24 inch	Ft	100.000
2047001	_Curb, Gutter, and Curb and Gutter, Any Type, Rem	Ft	1,114.000
2047011	_Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	Syd	231.760
2057011	_Grading, Driveway Approach	Syd	157.330
2057011	_Grading, Sidewalk	Syd	55.556
2057011	_Grading, Sidewalk Ramp	Syd	18.889
2057011	_Machine Grading, Special	Syd	5,741.280
2057021	_Subgrade Undercutting, Type IIA	Cyd	618.249
2080020	Erosion Control, Inlet Protection, Fabric Drop	Ea	17.000
4020987	Sewer, Cl IV, 12 inch, Tr Det B	Ft	100.000
4030200	Dr Structure, 24 inch dia	Ea	10.000
4037050	_Dr Structure Cover, Type B, Modified	Ea	14.000
4037050	_Dr Structure Cover, Type K, Modified	Ea	9.000
4037050	_Dr Structure, Adj, Case 1, Modified	Ea	25.000
4037050	_Dr Structure, Temp Lowering, Modified	Ea	15.000
4047001	_Underdrain, Subgrade, 6 inch, Special	Ft	200.000
5010002	Cold Milling HMA Surface	Syd	5,742.000
5010005	HMA Surface, Rem	Syd	123.778
5010703	HMA, LVSP	Ton	1,330.000
5017011	Cold Milling for Concrete Curb and Gutter Reveal	Syd	572.160
6027021	Flowable Fill	Cyd	30.94
6030030	Lane Tie, Epoxy Anchored	Ea	28.000
8017011	Driveway, Nonreinf Conc, 6 inch, Modified	Syd	157.330
8027001	Curb and Gutter, Conc, Barrier or Mountable, Slip Form	Ft	296.000
8027001	_Curb and Gutter, Conc, Mountable	Ft	296.000
8027001	Driveway Opening, Conc, Det M, Modified	Ft	788.000
8030030	Curb Ramp Opening, Conc	Ft	35.000
8037001	Detectable Warning Surface, Modified	Ft	25.000
8037010	Sidewalk Ramp, Conc, 6 inch, Modified	Sft	170.000
8037010	_Sidewalk, Conc, 4 inch, Modified	Sft	500.000
8110197	Pavt Mrkg, Thermopl, 6 inch, Crosswalk	Ft	86.000
8110218	Pavt Mrkg, Thermopl, 24 inch, Stop Bar	Ft	19.000
8120012	Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	Ea	6.000
8120013	Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	Ea	6.000
8120250	Plastic Drum, High Intensity, Furn	Ea	15.000
8120251	Plastic Drum, High Intensity, Oper	Ea	15.000
8120350	Sign, Type B, Temp, Prismatic, Furn	Sft	74.000
8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	74.000
8120352	Sign, Type B, Temp, Prismatic, Special, Furn	Sft	16.000
8120353	Sign, Type B, Temp, Prismatic, Special, Oper	Sft	16.000
8127050	_Pedestrian Type II Barricade, Temp	Ea –	8.000
8127050	_Temporary No Parking Sign	Ea	49.686
8167011	_Slope Restoration	Syd	445.600

	QUANTITIES Sign, Type B, Temp, Prismatic & *Sign, Type B, Temp, Prismatic, Special						
Quantity	Sign Code	Description	Area (sft)	Total Area (Sft)			
4.0	*D3-1	Street Name Sign	4.000	16.000			
4.0	W20-1	Road Work Ahead Sign	9.000	36.000			
3.0	R11-3a	Road Closed Local Traffic Only	12.500	38.000			
			TOTAL	90.000			

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PROJECT LOCATION: TUDOR DR

ITB No. BID NO FILE No. 2020-004

Item Code	Item Description	Unit	Quantity
2030011	Dr Structure, Rem	Ea	6.000
2030015	Sewer, Rem, Less than 24 inch	Ft	60.000
2047001	Curb, Gutter, and Curb and Gutter, Any Type, Rem	Ft	552.000
2047011		Syd	297.210
2057011	Grading, Driveway Approach	Syd	133.000
2057011	_Machine Grading, Special	Syd	3,372.670
2057021	_Subgrade Undercutting, Type IIA	Cyd	354.453
2080020	Erosion Control, Inlet Protection, Fabric Drop	Ea	11.000
4020987	Sewer, Cl IV, 12 inch, Tr Det B	Ft	60.000
4030200	Dr Structure, 24 inch dia	Ea	6.000
4037050	_Dr Structure Cover, Type B, Modified	Ea	9.000
4037050	_Dr Structure Cover, Type K, Modified	Ea	6.000
4037050	_Dr Structure, Adj, Case 1, Modified	Ea	21.000
4037050	_Dr Structure, Temp Lowering, Modified	Ea	15.000
4047001	_Underdrain, Subgrade, 6 inch, Special	Ft	120.000
5010002	Cold Milling HMA Surface	Syd	3,373.000
5010005	HMA Surface, Rem	Syd	61.333
5010703	HMA, LVSP	Ton	780.000
5017011	_Cold Milling for Concrete Curb and Gutter Reveal	Syd	306.330
6027021	_Flowable Fill	Cyd	15.333
6030030	Lane Tie, Epoxy Anchored	Ea	28.000
8017011	_Driveway, Nonreinf Conc, 6 inch, Modified	Syd	133.000
8027001	_Curb and Gutter, Conc, Barrier	Ft	150.000
8027001	_Driveway Opening, Conc, Det M, Modified	Ft	384.000
8110197	Pavt Mrkg, Thermopl, 6 inch, Crosswalk	Ft	85.000
8110218	Pavt Mrkg, Thermopl, 24 inch, Stop Bar	Ft	16.000
8120012	Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	Ea	6.000
8120013	Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	Ea	6.000
8120250	Plastic Drum, High Intensity, Furn	Ea	15.000
8120251	Plastic Drum, High Intensity, Oper	Ea	15.000
8120350	Sign, Type B, Temp, Prismatic, Furn	Sft	65.000
8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	65.000
8120352	Sign, Type B, Temp, Prismatic, Special, Furn	Sft	16.000
8120353	Sign, Type B, Temp, Prismatic, Special, Oper	Sft	16.000
8127050	_Temporary No Parking Sign	Ea	28.486
8167011	_Slope Restoration	Syd	220.800

	QUANTITIES Sign, Type B, Temp, Prismatic & *Sign, Type B, Temp, Prismatic, Special						
Quantity	Sign Code	Description	Area (sft)	Total Area (Sft)			
4.0	*D3-1	Street Name Sign	4.000	16.000			
4.0	W20-1	Road Work Ahead Sign	9.000	36.000			
1.0	R3-2	No Left Turn	4.000	4.000			
2.0	R11-3a	Road Closed Local Traffic Only	12.500	25.000			
			TOTAL	81.000			

CONSTRUCTION METHOD AND SEQUENCING

- INSTALL ANY PROPOSED STORM SEWER, AND UNDERDRAIN AS SHOWN ON THE PLANS, AND AS
- STRUCTURE COVERS, INCLUDING VALVE AND MONUMENT BOXES

- 9. PAVE 2 INCHES OF THE BITUMINOUS MIX AS SPECIFIED OR DIRECTED, AS THE LEVELING COURSE, IN
- 10. ADJUST ALL STRUCTURE COVERS, MONUMENT BOXES, AND VALVE BOXES TO THEIR FINISHED ELEVATIONS.
- 11. PAVE 1 INCH OF THE BITUMINOUS MIX AS SPECIFIED OR DIRECTED, AS THE WEARING COURSE, IN ONE
- 12. COMPLETE ALL PAVEMENT MARKINGS IN ACCORDANCE WITH THE PLANS, AND AS DIRECTED BY THE
- 13. COMPLETE ALL MISCELLANEOUS CONSTRUCTION INCLUDING ALL CLEAN—UP AND FINAL RESTORATION.
- 14. REMOVE ALL TRAFFIC CONTROL DEVICES. REMOVE MISS DIG FLAGS.

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

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.



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PROJECT LOCATION: GLEN LEVEN RD

ITB No. BID NO FILE No. 2019-004

	QUANTITIES		
Item Code	Item Description	Unit	Quantity
2030011	Dr Structure, Rem	Ea	4.000
2030015	Sewer, Rem, Less than 24 inch	Ft	40.000
2047001	_Curb, Gutter, and Curb and Gutter, Any Type, Rem	Ft	1,501.000
2047011	_Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	Syd	244.550
2057011	_Grading, Driveway Approach	Syd	97.000
2057011	_Grading, Sidewalk	Syd	47.222
2057011	_Grading, Sidewalk Ramp	Syd	18.33
2080020	Erosion Control, Inlet Protection, Fabric Drop	Ea	9.000
4020987	Sewer, Cl IV, 12 inch, Tr Det B	Ft	40.000
4030200	Dr Structure, 24 inch dia	Ea	4.000
4037050	_Dr Structure Cover, Type K, Modified	Ea	3.000
4037050	_Dr Structure, Adj, Case 1, Modified	Ea	4.000
4047001	_Underdrain, Subgrade, 6 inch, Special	Ft	80.000
5010002	Cold Milling HMA Surface	Syd	3,055.000
5010005	HMA Surface, Rem	Syd	166.778
5010703	HMA, LVSP	Ton	360.000
5017011	_Cold Milling for Concrete Curb and Gutter Reveal	Syd	307.160
6027021	_Flowable Fill	Cyd	41.694
8017011	_Driveway, Nonreinf Conc, 6 inch, Modified	Syd	97.000
8027001	_Curb and Gutter, Conc, Barrier	Ft	81.000
8027001	_Driveway Opening, Conc, Det M, Modified	Ft	1,370.000
8037010	_Sidewalk Ramp, Conc, 6 inch, Modified	Sft	165.000
8037010	_Sidewalk, Conc, 4 inch, Modified	Sft	425.000
8110212	Pavt Mrkg, Thermopl, 12 inch, Cross Hatching, White	Ft	70.000
8110218	Pavt Mrkg, Thermopl, 24 inch, Stop Bar	Ft	16.000
8120012	Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	Ea	6.000
8120013	Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	Ea	6.000
8120250	Plastic Drum, High Intensity, Furn	Ea	15.000
8120251	Plastic Drum, High Intensity, Oper	Ea	15.000
8120350	Sign, Type B, Temp, Prismatic, Furn	Sft	74.000
8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	74.000
8120352	Sign, Type B, Temp, Prismatic, Special, Furn	Sft	32.000
8120353	Sign, Type B, Temp, Prismatic, Special, Oper	Sft	32.000
8127050	_Pedestrian Type II Barricade, Temp	Ea	6.000
8127050	_Temporary No Parking Sign	Ea	26.514
8167011	_Slope Restoration	Syd	600.400
8230431	Gate Box, Adj, Case 1	Ea	1.000
8507050	_HMA Surface, Around Structure Cover, Rem	Ea	12.000

	QUANTITIES Sign, Type B, Temp, Prismatic & *Sign, Type B, Temp, Prismatic, Special						
Quantity	Sign Code	Description	Area (sft)	Total Area (Sft)			
8.0	*D3-1	Street Name Sign	4.000	32.000			
4.0	W20-1	Road Work Ahead Sign	9.000	36.000			
3.0	R11-3a	Road Closed Local Traffic Only	12.500	38.000			
			TOTAL	106.000			

CONSTRUCTION METHOD AND SEQUENCING

- 1. THE WORK TO BE COMPLETED ON THIS STREET SHALL INCLUDE, BUT NOT BE LIMITED TO THE FOLLOWING ITEMS. THE ORDER OF CONSTRUCTION SHALL BE AS GIVEN UNLESS OTHERWISE AUTHORIZED OR DIRECTED BY THE ENGINEER
- 2. IMPLEMENT TRAFFIC MAINTENANCE, AND SOIL EROSION CONTROLS IN ACCORDANCE WITH THE PLA AND AS DIRECTED BY THE ENGINEER.
- 3. INSTALL ANY PROPOSED STORM SEWER, AND UNDERDRAIN AS SHOWN ON THE PLANS, AND AS DIRECTED BY THE ENGINEER.
- 4. LOWER ALL STRUCTURE COVERS, INCLUDING VALVE AND MONUMENT BOXES
- 5. PERFORM ALL CONCRETE WORK, INCLUDING RESTORATION, IN ACCORDANCE WITH THE PLANS, AND AS DIRECTED BY THE ENGINEER.
- 6. MILL 3 INCHES OF BITUMINOUS MATERIAL FROM EXISTING ROADWAY. THIS MAY INCLUDE GRANULAR ROAD BASE MATERIAL. DEPTH TO BE DETERMINED BY THE ENGINEER. PROOF ROLL WITH FULL TRUCK
- 7. PERFORM UNDERCUTS AND OR BASE REPAIRS AS DIRECTED BY THE ENGINEER.
- 8. GRADE, SHAPE, AND RE—COMPACT THE EXISTING ROAD BASE AS REQUIRED, AND AS DIRECTED BY THI ENGINEER.
- 9. PAVE 2 INCHES OF THE BITUMINOUS MIX AS SPECIFIED OR DIRECTED, AS THE LEVELING COURSE, IN ONE LIFT.
- 10. ADJUST ALL STRUCTURE COVERS, MONUMENT BOXES, AND VALVE BOXES TO THEIR FINISHED ELEVATIONS.
- 11. PAVE 1 INCH OF THE BITUMINOUS MIX AS SPECIFIED OR DIRECTED, AS THE WEARING COURSE, IN ONE LIFT.
- 12. COMPLETE ALL PAVEMENT MARKINGS IN ACCORDANCE WITH THE PLANS, AND AS DIRECTED BY THE ENGINEER.
- 13. COMPLETE ALL MISCELLANEOUS CONSTRUCTION INCLUDING ALL CLEAN-UP AND FINAL RESTORATION.
- 14. REMOVE ALL TRAFFIC CONTROL DEVICES. REMOVE MISS DIG FLAGS.

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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Description

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CITY OF ANN ARBOF PUBLIC SERVICES 301 EAST HURON STREET P.O. BOX 8647 ANN ARBOR, MI 48107-864 734-794-6410 www.a2gov.org



ION PROJECT - 202

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T RESURFACING
GLEN LEVE

PUBLIC SERVICES STREET RESU

INEERING - PUBL

SCALE



PROJECT LOCATION: WOODLAND DR

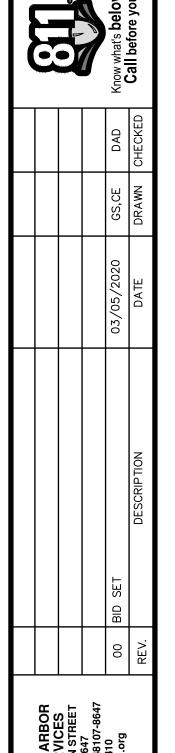
ITB No. BID NO FILE No. 2019-004

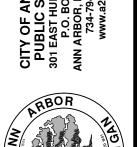
	QUANTITIES		
Item Code	Item Description	Unit	Quantity
2030011	Dr Structure, Rem	Ea	4.0
2030015	Sewer, Rem, Less than 24 inch	Ft	40.0
2047001	_Curb, Gutter, and Curb and Gutter, Any Type, Rem	Ft	1,501.0
2047011	_Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	Syd	244.5
2057011	_Grading, Driveway Approach	Syd	97.0
2057011	_Grading, Sidewalk	Syd	47.2
2057011	_Grading, Sidewalk Ramp	Syd	18.3
2080020	Erosion Control, Inlet Protection, Fabric Drop	Ea	9.0
4020987	Sewer, Cl IV, 12 inch, Tr Det B	Ft	40.0
4030200	Dr Structure, 24 inch dia	Ea	4.0
4037050	_Dr Structure Cover, Type K, Modified	Ea	3.0
4037050	_Dr Structure, Adj, Case 1, Modified	Ea	4.0
4047001	_Underdrain, Subgrade, 6 inch, Special	Ft	80.0
5010002	Cold Milling HMA Surface	Syd	3,055.0
5010005	HMA Surface, Rem	Syd	166.7
5010703	HMA, LVSP	Ton	360.0
5017011	_Cold Milling for Concrete Curb and Gutter Reveal	Syd	307.1
6027021	_Flowable Fill	Cyd	41.6
8017011	_Driveway, Nonreinf Conc, 6 inch, Modified	Syd	97.0
8027001	_Curb and Gutter, Conc, Barrier	Ft	81.0
8027001	_Driveway Opening, Conc, Det M, Modified	Ft	1,370.0
8037010	_Sidewalk Ramp, Conc, 6 inch, Modified	Sft	165.0
8037010	_Sidewalk, Conc, 4 inch, Modified	Sft	425.0
8110212	Pavt Mrkg, Thermopl, 12 inch, Cross Hatching, White	Ft	70.0
8110218	Pavt Mrkg, Thermopl, 24 inch, Stop Bar	Ft	16.0
8120012	Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	Ea	6.0
8120013	Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	Ea	6.0
8120250	Plastic Drum, High Intensity, Furn	Ea	15.0
8120251	Plastic Drum, High Intensity, Oper	Ea	15.0
8120350	Sign, Type B, Temp, Prismatic, Furn	Sft	74.0
8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	74.0
8120352	Sign, Type B, Temp, Prismatic, Special, Furn	Sft	32.0
8120353	Sign, Type B, Temp, Prismatic, Special, Oper	Sft	32.0
8127050	Pedestrian Type II Barricade, Temp	Ea	6.0
8127050	Temporary No Parking Sign	Ea	26.5
8167011	Slope Restoration	Syd	600.4
8230431	Gate Box, Adj, Case 1	Ea	1.0
8507050	_HMA Surface, Around Structure Cover, Rem	Ea	12.0

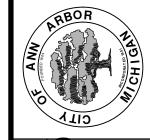
	QUANTITIES Sign, Type B, Temp, Prismatic & *Sign, Type B, Temp, Prismatic, Special					
Quantity	Sign Code	Description	Area (sft)	Total Area (Sft)		
8.0	*D3-1	Street Name Sign	4.000	32.000		
4.0	W20-1	Road Work Ahead Sign	9.000	36.000		
3.0	R11-3a	Road Closed Local Traffic Only	12.500	38.000		
			TOTAL	106.000		

CONSTRUCTION METHOD AND SEQUENCING

- 1. THE WORK TO BE COMPLETED ON THIS STREET SHALL INCLUDE, BUT NOT BE LIMITED TO THE FOLLOWING ITEMS. THE ORDER OF CONSTRUCTION SHALL BE AS GIVEN UNLESS OTHERWISE AUTHORIZE OR DIRECTED BY THE ENGINEER
- 2. IMPLEMENT TRAFFIC MAINTENANCE, AND SOIL EROSION CONTROLS IN ACCORDANCE WITH THE PLAI AND AS DIRECTED BY THE ENGINEER.
- 3. INSTALL ANY PROPOSED STORM SEWER, AND UNDERDRAIN AS SHOWN ON THE PLANS, AND AS DIRECTED BY THE ENGINEER.
- 4. LOWER ALL STRUCTURE COVERS, INCLUDING VALVE AND MONUMENT BOXES
- PERFORM ALL CONCRETE WORK, INCLUDING RESTORATION, IN ACCORDANCE WITH THE PLANS, AND AS DIRECTED BY THE ENGINEER.
- 6. MILL 3 INCHES OF BITUMINOUS MATERIAL FROM EXISTING ROADWAY. THIS MAY INCLUDE GRANULAR ROAD BASE MATERIAL. DEPTH TO BE DETERMINED BY THE ENGINEER. PROOF ROLL WITH FULL TRUCK
- 7. PERFORM UNDERCUTS AND/OR BASE REPAIRS AS DIRECTED BY THE ENGINEER
- 8. GRADE, SHAPE, AND RE—COMPACT THE EXISTING ROAD BASE AS REQUIRED, AND AS DIRECTED BY T ENGINEER.
- 9. PAVE 2 INCHES OF THE BITUMINOUS MIX AS SPECIFIED OR DIRECTED, AS THE LEVELING COURSE, IN ONE LIFT.
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- 13. COMPLETE ALL MISCELLANEOUS CONSTRUCTION INCLUDING ALL CLEAN-UP AND FINAL RESTORATION
- 14. REMOVE ALL TRAFFIC CONTROL DEVICES. REMOVE MISS DIG FLAGS.







ANN ARBOR
/RESTORATION PROJECTION OF A WOODLAND DR

ET RESURFACING/RI GLEN LEVEN R

STREET

SCALE DRAWING No.



PROJECT LOCATION: GREENVIEW DR

ITB No. BID NO FILE No. 2020-004

	QUANTITIES		
Item Code	Item Description	Unit	Quantity
2030011	Dr Structure, Rem	Ea	5.00
2030015	Sewer, Rem, Less than 24 inch	Ft	50.00
2047001	_Curb, Gutter, and Curb and Gutter, Any Type, Rem	Ft	698.50
2047011	_Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	Syd	67.01
2057011	_Grading, Driveway Approach	Syd	51.00
2057011	_Grading, Sidewalk Ramp	Syd	16.02
2057011	_Machine Grading, Special	Syd	3,956.54
2057021	_Subgrade Undercutting, Type IIA	Cyd	379.96
2080020	Erosion Control, Inlet Protection, Fabric Drop	Ea	8.00
4020987	Sewer, Cl IV, 12 inch, Tr Det B	Ft	50.00
4030200	Dr Structure, 24 inch dia	Ea	5.00
4037050	_Dr Structure Cover, Type B, Modified	Ea	7.00
4037050	_Dr Structure Cover, Type C, Modified	Ea	1.00
4037050	_Dr Structure Cover, Type K, Modified	Ea	4.00
4037050	_Dr Structure, Adj, Case 1, Modified	Ea	14.00
4037050	_Dr Structure, Temp Lowering, Modified	Ea	9.00
4047001	_Underdrain, Subgrade, 6 inch, Special	Ft	100.00
5010002	Cold Milling HMA Surface	Syd	3,957.00
5010005	HMA Surface, Rem	Syd	77.61
5010703	HMA, LVSP	Ton	920.00
5017011	_Cold Milling for Concrete Curb and Gutter Reveal	Syd	2.61
6027021	_Flowable Fill	Cyd	19.40
8017011	_Driveway, Nonreinf Conc, 6 inch, Modified	Syd	51.00
8027001	_Curb and Gutter, Conc, Barrier	Ft	290.00
8027001	_Driveway Opening, Conc, Det M, Modified	Ft	396.50
8030030	Curb Ramp Opening, Conc	Ft	14.00
8037001	_Detectable Warning Surface, Modified	Ft	10.00
8037010	_Sidewalk Ramp, Conc, 6 inch, Modified	Sft	144.25
8110214	Pavt Mrkg, Thermopl, 12 inch, Crosswalk	Ft	88.00
8120012	Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	Ea	6.00
8120013	Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	Ea	6.00
8120250	Plastic Drum, High Intensity, Furn	Ea	15.00
8120251	Plastic Drum, High Intensity, Oper	Ea	15.00
8120350	Sign, Type B, Temp, Prismatic, Furn	Sft	83.00
8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	83.00
8120352	Sign, Type B, Temp, Prismatic, Special, Furn	Sft	20.00
8120353	Sign, Type B, Temp, Prismatic, Special, Oper	Sft	20.00
8127050	_Pedestrian Type II Barricade, Temp	Ea	4.00
8127050	_Temporary No Parking Sign	Ea	32.57
8167011	_Slope Restoration	Syd	279.40

QUANTITIES					
		Sign, Type B, Temp, Prismatic & *Sign, Type B, Temp, Prismatic, Special			
Quantity	Sign Code	Description	Area (sft)	TOTAT Aroa (S#)	
5.0	*D3-1	Street Name Sign	4.000	20.000	
5.0	W20-1	Road Work Ahead Sign	9.000	45.000	
3.0	R11-3a	Road Closed Local Traffic Only	12.500	38.000	
			TOTAL	103.000	

CONSTRUCTION METHOD AND SEQUENCING

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- 6. MILL 3 INCHES OF BITUMINOUS MATERIAL FROM EXISTING ROADWAY. THIS MAY INCLUDE GRANULAR ROAD BASE MATERIAL. DEPTH TO BE DETERMINED BY THE ENGINEER. PROOF ROLL WITH FULL TRUCK
- 7. PERFORM UNDERCUTS AND/OR BASE REPAIRS AS DIRECTED BY THE ENGINEER
- 8. GRADE, SHAPE, AND RE-COMPACT THE EXISTING ROAD BASE AS REQUIRED, AND AS DIRECTED BY THE ENGINEER.
- 9. PAVE 2 INCHES OF THE BITUMINOUS MIX AS SPECIFIED OR DIRECTED, AS THE LEVELING COURSE, IN ONE LIFT.
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- 13. COMPLETE ALL MISCELLANEOUS CONSTRUCTION INCLUDING ALL CLEAN-UP AND FINAL RESTORATION.
- 14. REMOVE ALL TRAFFIC CONTROL DEVICES. REMOVE MISS DIG FLAGS.

NOTES

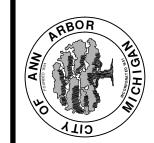
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REV. DESCRIPTION DATE DRAWN CHECKED

CITY OF ANN ARBOR
PUBLIC SERVICES
301 EAST HURON STREET
P.O. BOX 8647
ANN ARBOR, MI 48107-8647
734-794-6410
www.a2gov.org



OR TION PROJECT - 20

SEACING/RESTORATION OF SCIO CHURCH SERVICE DE

STREET RESURFACINGRES

SINEERING - PUI

SCALE

No.



PROJECT LOCATION: SCIO CHURCH SERVICE DR

ITB No. BID NO FILE No. 2020-004

	QUANTITIES		
Item Code	Item Description	Unit	Quantity
2047001	_Curb, Gutter, and Curb and Gutter, Any Type, Rem	Ft	181.000
2047011	_Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	Syd	20.220
2057011	_Grading, Driveway Approach	Syd	20.000
2057011	_Machine Grading, Special	Syd	1,755.111
2057021	_Subgrade Undercutting, Type IIA	Cyd	34.390
2080020	Erosion Control, Inlet Protection, Fabric Drop	Ea	6.000
5010002	Cold Milling HMA Surface	Syd	1,756.000
5010005	HMA Surface, Rem	Syd	20.111
5010703	HMA, LVSP	Ton	210.000
6027021	_Flowable Fill	Cyd	5.028
8017011	_Driveway, Nonreinf Conc, 6 inch, Modified	Syd	20.000
8027001	_Driveway Opening, Conc, Det M, Modified	Ft	181.000
8120012	Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	Ea	4.000
8120013	Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	Ea	4.000
8120250	Plastic Drum, High Intensity, Furn	Ea	15.000
8120251	Plastic Drum, High Intensity, Oper	Ea	15.000
8120350	Sign, Type B, Temp, Prismatic, Furn	Sft	79.000
8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	79.000
8120352	Sign, Type B, Temp, Prismatic, Special, Furn	Sft	24.000
8120353	Sign, Type B, Temp, Prismatic, Special, Oper	Sft	24.000
8127050	_Temporary No Parking Sign	Ea	20.514
8167011	_Slope Restoration	Syd	72.400
8507050	_HMA Surface, Around Structure Cover, Rem	Ea	5.000

		QUANTITIES Sign Type B Temp Brigmatic 2 *Sign Type B Temp Brigmatic Special		
Quantity	Sign Code	Sign, Type B, Temp, Prismatic & *Sign, Type B, Temp, Prismatic, Special Description	Area (sft)	Total Area (Sft)
6.0	*D3-1	Street Name Sign	4.000	24.000
6.0	W20-1	Road Work Ahead Sign	9.000	54.000
2.0	R11-3a	Road Closed Local Traffic Only	12.500	25.000
			TOTAL	103.000

CONSTRUCTION METHOD AND SEQUENCING

- 1. THE WORK TO BE COMPLETED ON THIS STREET SHALL INCLUDE, BUT NOT BE LIMITED TO THE FOLLOWING ITEMS. THE ORDER OF CONSTRUCTION SHALL BE AS GIVEN UNLESS OTHERWISE AUTHORIZED OR DIRECTED BY THE ENGINEER
- 2. IMPLEMENT TRAFFIC MAINTENANCE, AND SOIL EROSION CONTROLS IN ACCORDANCE WITH THE PLANS AND AS DIRECTED BY THE ENGINEER.
- INSTALL ANY PROPOSED STORM SEWER, AND UNDERDRAIN AS SHOWN ON THE PLANS, AND AS DIRECTED BY THE ENGINEER.
- 4. LOWER ALL STRUCTURE COVERS, INCLUDING VALVE AND MONUMENT BOXE
- DIRECTED BY THE ENGINEER.
 SOURCE OF THE PLANS, AND A DIRECTED BY THE ENGINEER.
- 6. MILL 3 INCHES OF BITUMINOUS MATERIAL FROM EXISTING ROADWAY. THIS MAY INCLUDE GRANULAR ROAD BASE MATERIAL. DEPTH TO BE DETERMINED BY THE ENGINEER. PROOF ROLL WITH FULL TRUCK
- 7. PERFORM UNDERCUTS AND/OR BASE REPAIRS AS DIRECTED BY THE ENGINEE
- 8. GRADE, SHAPE, AND RE—COMPACT THE EXISTING ROAD BASE AS REQUIRED, AND AS DIRECTED BY T ENGINEER.
- 9. PAVE 2 INCHES OF THE BITUMINOUS MIX AS SPECIFIED OR DIRECTED, AS THE LEVELING COURSE, IN ONE LIFT.
- 10. ADJUST ALL STRUCTURE COVERS, MONUMENT BOXES, AND VALVE BOXES TO THEIR FINISHED ELEVATIONS.
- 11. PAVE 1 INCH OF THE BITUMINOUS MIX AS SPECIFIED OR DIRECTED, AS THE WEARING COURSE, IN ONE LIFT.
- 12. COMPLETE ALL PAVEMENT MARKINGS IN ACCORDANCE WITH THE PLANS, AND AS DIRECTED BY THE ENGINEER.
- 13. COMPLETE ALL MISCELLANEOUS CONSTRUCTION INCLUDING ALL CLEAN-UP AND FINAL RESTORATION.
- 14. REMOVE ALL TRAFFIC CONTROL DEVICES. REMOVE MISS DIG FLAGS.

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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NN ARBOR, MI 48107-8647
734-794-6410
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N PROJECT - 2020

ACING/RESTORATION
OR SCIO CHURCH SERVICE DR &

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GINEERING - PUE

DRAWING No.



PROJECT LOCATION: WELCH DR

ITB No. BID NO FILE No. 2020-004

	QUANTITIES				
Item Code	Item Description	Unit	Quantity		
2057021	_Subgrade Undercutting, Type IIA	Cyd	21.310		
2080020	Erosion Control, Inlet Protection, Fabric Drop	Ea	3.000		
5010002	Cold Milling HMA Surface	Syd	1,446.000		
5010005	HMA Surface, Rem	Syd	38.290		
5010025	Hand Patching	Ton	4.210		
5010703	HMA, LVSP	Ton	170.000		
8110197	Pavt Mrkg, Thermopl, 6 inch, Crosswalk	Ft	60.000		
8110218	Pavt Mrkg, Thermopl, 24 inch, Stop Bar	Ft	15.000		
8120012	Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	Ea	2.000		
8120013	Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	Ea	2.000		
8120250	Plastic Drum, High Intensity, Furn	Ea	15.000		
8120251	Plastic Drum, High Intensity, Oper	Ea	15.000		
8120350	Sign, Type B, Temp, Prismatic, Furn	Sft	31.000		
8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	31.000		
8120352	Sign, Type B, Temp, Prismatic, Special, Furn	Sft	8.000		
8120353	Sign, Type B, Temp, Prismatic, Special, Oper	Sft	8.000		
8127050	_Temporary No Parking Sign	Ea	7.943		
8507050	_HMA Surface, Around Structure Cover, Rem	Ea	4.000		

QUANTITIES Sign, Type B, Temp, Prismatic & *Sign, Type B, Temp, Prismatic, Special				
Quantity	Sign Code	Description	Area (sft)	Total Area (Sft)
2.0	*D3-1	Street Name Sign	4.000	8.000
2.0	W20-1	Road Work Ahead Sign	9.000	18.000
1.0	R11-3a	Road Closed Local Traffic Only	12.500	13.000
			TOTAL	39.000

CONSTRUCTION METHOD AND SEQUENCING

- 1. THE WORK TO BE COMPLETED ON THIS STREET SHALL INCLUDE, BUT NOT BE LIMITED TO THE FOLLOWING ITEMS. THE ORDER OF CONSTRUCTION SHALL BE AS GIVEN UNLESS OTHERWISE AUTHORIZED OR DIRECTED BY THE ENGINEER
- 2. IMPLEMENT TRAFFIC MAINTENANCE, AND SOIL EROSION CONTROLS IN ACCORDANCE WITH THE PLANS, AND AS DIRECTED BY THE ENGINEER.
- INSTALL ANY PROPOSED STORM SEWER, AND UNDERDRAIN AS SHOWN ON THE PLANS, AND AS DIRECTED BY THE ENGINEER.
- 4. LOWER ALL STRUCTURE COVERS, INCLUDING VALVE AND MONUMENT BOXES.
- 5. PERFORM ALL CONCRETE WORK, INCLUDING RESTORATION, IN ACCORDANCE WITH THE PLANS, AND DIRECTED BY THE ENGINEER.
- 6. MILL 3 INCHES OF BITUMINOUS MATERIAL FROM EXISTING ROADWAY. THIS MAY INCLUDE GRANULAR ROAD BASE MATERIAL. DEPTH TO BE DETERMINED BY THE ENGINEER. PROOF ROLL WITH FULL TRUCK
- 7. PERFORM UNDERCUTS AND/OR BASE REPAIRS AS DIRECTED BY THE ENGINEER
- 8. GRADE, SHAPE, AND RE—COMPACT THE EXISTING ROAD BASE AS REQUIRED, AND AS DIRECTED BY THE ENGINEER.
- 9. PAVE 2 INCHES OF THE BITUMINOUS MIX AS SPECIFIED OR DIRECTED, AS THE LEVELING COURSE, IN ONE LIFT.
- 10. ADJUST ALL STRUCTURE COVERS, MONUMENT BOXES, AND VALVE BOXES TO THEIR FINISHED ELEVATIONS.
- 11. PAVE 1 INCH OF THE BITUMINOUS MIX AS SPECIFIED OR DIRECTED, AS THE WEARING COURSE, IN ONE LIFT.
- 12. COMPLETE ALL PAVEMENT MARKINGS IN ACCORDANCE WITH THE PLANS, AND AS DIRECTED BY THE ENGINEER.
- 13. COMPLETE ALL MISCELLANEOUS CONSTRUCTION INCLUDING ALL CLEAN-UP AND FINAL RESTORATION.
- 14. REMOVE ALL TRAFFIC CONTROL DEVICES. REMOVE MISS DIG FLAGS.

NOTES:

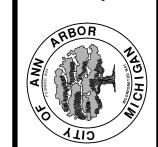
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ES - CIIY OF ANN AFESURFACING/RESTOF

G - PUBLIC SERVICE
STREET REG

NGINEERING - P

DRAWING No.

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PROJECT LOCATION: HANOVER CT

ITB No. BID NO FILE No. 2020-004

	QUANTITIES		
Item Code	Item Description	Unit	Quantity
2030011	Dr Structure, Rem	Ea	1.000
2030015	Sewer, Rem, Less than 24 inch	Ft	10.000
2047001	_Curb, Gutter, and Curb and Gutter, Any Type, Rem	Ft	107.000
2047011	_Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	Syd	22.220
2057011	_Grading, Driveway Approach	Syd	22.000
2080020	Erosion Control, Inlet Protection, Fabric Drop	Ea	3.000
4020987	Sewer, Cl IV, 12 inch, Tr Det B	Ft	10.000
4030200	Dr Structure, 24 inch dia	Ea	1.000
4037050	_Dr Structure Cover, Type K, Modified	Ea	1.000
4037050	_Dr Structure, Adj, Case 1, Modified	Ea	1.000
4047001	_Underdrain, Subgrade, 6 inch, Special	Ft	20.000
5010002	Cold Milling HMA Surface	Syd	1,437.000
5010005	HMA Surface, Rem	Syd	11.889
5010703	HMA, LVSP	Ton	170.000
5017011	_Cold Milling for Concrete Curb and Gutter Reveal	Syd	77.330
6027021	_Flowable Fill	Cyd	2.972
8017011	_Driveway, Nonreinf Conc, 6 inch, Modified	Syd	22.000
8027001	_Curb and Gutter, Conc, Barrier	Ft	20.000
8027001	_Driveway Opening, Conc, Det M, Modified	Ft	87.000
8120012	Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	Ea	2.000
8120013	Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	Ea	2.000
8120250	Plastic Drum, High Intensity, Furn	Ea	15.000
8120251	Plastic Drum, High Intensity, Oper	Ea	15.000
8120350	Sign, Type B, Temp, Prismatic, Furn	Sft	31.000
8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	31.000
8120352	Sign, Type B, Temp, Prismatic, Special, Furn	Sft	16.000
8120353	Sign, Type B, Temp, Prismatic, Special, Oper	Sft	16.000
8127050	_Temporary No Parking Sign	Ea	7.857
8167011	_Slope Restoration	Syd	42.800
8507050	_HMA Surface, Around Structure Cover, Rem	Ea	2.000

		QUANTITIES		
		Sign, Type B, Temp, Prismatic & *Sign, Type B, Temp, Prismatic, Special		
Quantity	Sign Code	Description	Area (sft)	Total Area (Sft)
4.0	*D3-1	Street Name Sign	4.000	16.000
2.0	W20-1	Road Work Ahead Sign	9.000	18.000
1.0	R11-3a	Road Closed Local Traffic Only	12.500	13.000
			TOTAL	47.000

CONSTRUCTION METHOD AND SEQUENCING

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- 6. MILL 3 INCHES OF BITUMINOUS MATERIAL FROM EXISTING ROADWAY. THIS MAY INCLUDE GRANULAR ROAD BASE MATERIAL. DEPTH TO BE DETERMINED BY THE ENGINEER. PROOF ROLL WITH FULL TRUCK
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- 9. PAVE 2 INCHES OF THE BITUMINOUS MIX AS SPECIFIED OR DIRECTED, AS THE LEVELING COURSE, IN ONE LIFT.
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NOTES:

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801 EAST HURON STREET
P.O. BOX 8647
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PROJECT LOCATION: HANOVER RD

ITB No. BID NO FILE No. 2020-004

	QUANTITIES		
Item Code	Item Description	Unit	Quantity
2030011	Dr Structure, Rem	Ea	3.000
2030015	Sewer, Rem, Less than 24 inch	Ft	30.000
2047001	_Curb, Gutter, and Curb and Gutter, Any Type, Rem	Ft	576.000
2047011	_Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	Syd	75.550
2057011	_Grading, Driveway Approach	Syd	75.550
2080020	Erosion Control, Inlet Protection, Fabric Drop	Ea	13.000
4020987	Sewer, Cl IV, 12 inch, Tr Det B	Ft	30.000
4030200	Dr Structure, 24 inch dia	Ea	3.000
4037050	_Dr Structure Cover, Type K, Modified	Ea	3.000
4037050	_Dr Structure, Adj, Case 1, Modified	Ea	3.000
4047001	_Underdrain, Subgrade, 6 inch, Special	Ft	60.000
5010002	Cold Milling HMA Surface	Syd	3,283.000
5010005	HMA Surface, Rem	Syd	64.000
5010703	HMA, LVSP	Ton	380.000
5017011	_Cold Milling for Concrete Curb and Gutter Reveal	Syd	347.800
6027021	_Flowable Fill	Cyd	16.000
8017011	_Driveway, Nonreinf Conc, 6 inch, Modified	Syd	75.550
8027001	_Curb and Gutter, Conc, Barrier	Ft	60.000
8027001	_Driveway Opening, Conc, Det M, Modified	Ft	516.000
8120012	Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	Ea	6.000
8120013	Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	Ea	6.000
8120250	Plastic Drum, High Intensity, Furn	Ea	15.000
8120251	Plastic Drum, High Intensity, Oper	Ea	15.000
8120350	Sign, Type B, Temp, Prismatic, Furn	Sft	65.000
8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	65.000
8120352	Sign, Type B, Temp, Prismatic, Special, Furn	Sft	20.000
8120353	Sign, Type B, Temp, Prismatic, Special, Oper	Sft	20.000
8127050	_Temporary No Parking Sign	Ea	31.114
8167011	_Slope Restoration	Syd	230.400
8507050	_HMA Surface, Around Structure Cover, Rem	Ea	10.000

		QUANTITIES		
		Sign, Type B, Temp, Prismatic & *Sign, Type B, Temp, Prismatic, Special		
Quantity	Sign Code	Description	Area (sft)	Total Area (Sft)
5.0	*D3-1	Street Name Sign	4.000	20.000
3.0	W20-1	Road Work Ahead Sign	9.000	27.000
3.0	R11-3a	Road Closed Local Traffic Only	12.500	38.000
			TOTAL	85.000

CONSTRUCTION METHOD AND SEQUENCING

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- 5. PERFORM ALL CONCRETE WORK, INCLUDING RESTORATION, IN ACCORDANCE WITH THE PLANS, AND AS DIRECTED BY THE ENGINEER.
- 6. MILL 3 INCHES OF BITUMINOUS MATERIAL FROM EXISTING ROADWAY. THIS MAY INCLUDE GRANULAR ROAD BASE MATERIAL. DEPTH TO BE DETERMINED BY THE ENGINEER. PROOF ROLL WITH FULL TRUCK
- 7. PERFORM UNDERCUTS AND/OR BASE REPAIRS AS DIRECTED BY THE ENGINEER
- 8. GRADE, SHAPE, AND RE-COMPACT THE EXISTING ROAD BASE AS REQUIRED, AND AS DIRECTED BY THE ENGINEER.
- 9. PAVE 2 INCHES OF THE BITUMINOUS MIX AS SPECIFIED OR DIRECTED, AS THE LEVELING COURSE, IN ONE LIFT.
- 10. ADJUST ALL STRUCTURE COVERS, MONUMENT BOXES, AND VALVE BOXES TO THEIR FINISHED ELEVATIONS.
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- 14. REMOVE ALL TRAFFIC CONTROL DEVICES. REMOVE MISS DIG FLAGS.

NOTES:

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03/05/2020 GS,CE DAD Know what's **belo** Call before yo

CITY OF ANN ARBOR
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PROJECT - 2020

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PUBLIC SERVICES
STREET RESU

AGINEERING - PL

SCALE
DRAWING No.

No.



PROJECT LOCATION: WAVERLY RD

ITB No. BID NO FILE No. 2020-004

	QUANTITIES		
Item Code	Item Description	Unit	Quantity
2030011	Dr Structure, Rem	Ea	2.000
2030015	Sewer, Rem, Less than 24 inch	Ft	20.000
2047001	_Curb, Gutter, and Curb and Gutter, Any Type, Rem	Ft	104.000
2047011	_Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	Syd	21.110
2057011	_Grading, Driveway Approach	Syd	21.000
2080020	Erosion Control, Inlet Protection, Fabric Drop	Ea	3.000
4020987	Sewer, Cl IV, 12 inch, Tr Det B	Ft	20.000
4037050	_Dr Structure Cover, Type K, Modified	Ea	1.000
4037050	_Dr Structure, Adj, Case 1, Modified	Ea	2.000
4047001	_Underdrain, Subgrade, 6 inch, Special	Ft	40.000
5010002	Cold Milling HMA Surface	Syd	1,336.000
5010005	HMA Surface, Rem	Syd	11.556
5010703	HMA, LVSP	Ton	160.000
6027021	_Flowable Fill	Cyd	2.889
8017011	_Driveway, Nonreinf Conc, 6 inch, Modified	Syd	21.000
8027001	_Curb and Gutter, Conc, Barrier	Ft	20.000
8027001	_Driveway Opening, Conc, Det M, Modified	Ft	84.000
8120012	Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	Ea	2.000
8120013	Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	Ea	2.000
8120250	Plastic Drum, High Intensity, Furn	Ea	15.000
8120251	Plastic Drum, High Intensity, Oper	Ea	15.000
8120350	Sign, Type B, Temp, Prismatic, Furn	Sft	40.000
8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	40.000
8120352	Sign, Type B, Temp, Prismatic, Special, Furn	Sft	24.000
8120353	Sign, Type B, Temp, Prismatic, Special, Oper	Sft	24.000
8127050	_Temporary No Parking Sign	Ea	9.214
8167011	_Slope Restoration	Syd	41.600
8507050	_HMA Surface, Around Structure Cover, Rem	Ea	5.000

		QUANTITIES Sign, Type B, Temp, Prismatic & *Sign, Type B, Temp, Prismatic, Special		
Quantity	Sign Code	Description	Area (sft)	Total Area (Sft)
6.0	*D3-1	Street Name Sign	4.000	24.000
3.0	W20-1	Road Work Ahead Sign	9.000	27.000
1.0	R11-3a	Road Closed Local Traffic Only	12.500	13.000
			TOTAL	64.000

CONSTRUCTION METHOD AND SEQUENCING

- 1. THE WORK TO BE COMPLETED ON THIS STREET SHALL INCLUDE, BUT NOT BE LIMITED TO THE FOLLOWING ITEMS. THE ORDER OF CONSTRUCTION SHALL BE AS GIVEN UNLESS OTHERWISE AUTHORIZED OR DIRECTED BY THE ENGINEER
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- 4. LOWER ALL STRUCTURE COVERS, INCLUDING VALVE AND MONUMENT BOXES
- 5. PERFORM ALL CONCRETE WORK, INCLUDING RESTORATION, IN ACCORDANCE WITH THE PLANS, AND AS DIRECTED BY THE ENGINEER.
- 6. MILL 3 INCHES OF BITUMINOUS MATERIAL FROM EXISTING ROADWAY. THIS MAY INCLUDE GRANULAR ROAD BASE MATERIAL. DEPTH TO BE DETERMINED BY THE ENGINEER. PROOF ROLL WITH FULL TRUCK
- 7. PERFORM UNDERCUTS AND/OR BASE REPAIRS AS DIRECTED BY THE ENGINEER
- 8. GRADE, SHAPE, AND RE—COMPACT THE EXISTING ROAD BASE AS REQUIRED, AND AS DIRECTED BY THE ENGINEER.
- 9. PAVE 2 INCHES OF THE BITUMINOUS MIX AS SPECIFIED OR DIRECTED, AS THE LEVELING COURSE, IN ONE LIFT.
- 10. ADJUST ALL STRUCTURE COVERS, MONUMENT BOXES, AND VALVE BOXES TO THEIR FINISHED ELEVATIONS.
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- 12. COMPLETE ALL PAVEMENT MARKINGS IN ACCORDANCE WITH THE PLANS, AND AS DIRECTED BY THE ENGINEER.
- 13. COMPLETE ALL MISCELLANEOUS CONSTRUCTION INCLUDING ALL CLEAN-UP AND FINAL RESTORATION.
- 14. REMOVE ALL TRAFFIC CONTROL DEVICES. REMOVE MISS DIG FLAGS.

NOTES:

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PTION DATE DRAWN CHECKED

Call before you

PUBLIC SERVICES
801 EAST HURON STREET
P.O. BOX 8647
ANN ARBOR, MI 48107-8647
734-734-6410
www.a2gov.org



CING/RESTORATION
SER CT HANOVER RD & WAVERL

SERVICES - CITY
RESURFACI
HANOVER (

NG - PUBLIC SERVI STREET F

GINEERING - P

SCALE DRAWING No.

NO.



PROJECT LOCATION: KENT ST

ITB No. BID NO FILE No. 2020-004

CONSTRUCTION METHOD AND SEQUENCING

- 1. THE WORK TO BE COMPLETED ON THIS STREET SHALL INCLUDE, BUT NOT BE LIMITED TO THE FOLLOWING ITEMS. THE ORDER OF CONSTRUCTION SHALL BE AS GIVEN UNLESS OTHERWISE AUTHORIZE OR DIRECTED BY THE ENGINEER.
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- 3. INSTALL ANY PROPOSED STORM SEWER, AND UNDERDRAIN AS SHOWN ON THE PLANS, AND AS DIRECTED BY THE ENGINEER.
- 4. LOWER ALL STRUCTURE COVERS, INCLUDING VALVE AND MONUMENT BOXES.
- PERFORM ALL CONCRETE WORK, INCLUDING RESTORATION, IN ACCORDANCE WITH THE PLANS, AND AS DIRECTED BY THE ENGINEER.
- 6. MILL 3 INCHES OF BITUMINOUS MATERIAL FROM EXISTING ROADWAY. THIS MAY INCLUDE GRANULAR ROAD BASE MATERIAL. DEPTH TO BE DETERMINED BY THE ENGINEER. PROOF ROLL WITH FULL TRUCK
- 7. PERFORM UNDERCUTS AND/OR BASE REPAIRS AS DIRECTED BY THE ENGINEER.
- 8. GRADE, SHAPE, AND RE-COMPACT THE EXISTING ROAD BASE AS REQUIRED, AND AS DIRECTED BY THE ENGINEER.
- 9. PAVE 2 INCHES OF THE BITUMINOUS MIX AS SPECIFIED OR DIRECTED, AS THE LEVELING COURSE, IN ONE LIFT.
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REV. DESCRIPTION DATE DRAWN CHECKED Call before

CITY OF ANN ARBOR PUBLIC SERVICES 301 EAST HURON STREET P.O. BOX 8647 ANN ARBOR, MI 48107-8647 734-794-6410 www.a2gov.org



CT - 2020

N ARBOR TORATION PROJECT TOR WARWICK CT

SURFACING/RESTC KENT ST WALTHAM DR

C SERVICES - CITY TREET RESURFAC

RING - PUBLIC SERVI STREET F

CALE

DRAWING



PROJECT LOCATION: WALTHAM DR

ITB No. BID NO FILE No. 2020-004

	QUANTITIES			
Item Code	Item Description	Unit	Quantity	
1047051	_Certified Payroll Compliance and Reporting	LSUM		
2047001	_Curb, Gutter, and Curb and Gutter, Any Type, Rem	Ft	24.000	
2057011	_Machine Grading, Special	Syd	1,023.000	
2057021	_Subgrade Undercutting, Type IIA	Cyd	89.991	
2080020	Erosion Control, Inlet Protection, Fabric Drop	Ea	2.000	
5010002	Cold Milling HMA Surface	Syd	1,023.000	
5010005	HMA Surface, Rem	Syd	2.667	
5010703	HMA, LVSP	Ton	120.000	
6027021	_Flowable Fill	Cyd	0.667	
8027001	_Driveway Opening, Conc, Det M, Modified	Ft	24.000	
8110197	Pavt Mrkg, Thermopl, 6 inch, Crosswalk	Ft	70.000	
8110214	Pavt Mrkg, Thermopl, 12 inch, Crosswalk	Ft	80.000	
8110218	Pavt Mrkg, Thermopl, 24 inch, Stop Bar	Ft	15.000	
8120012	Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	Ea	2.000	
8120013	Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	Ea	2.000	
8120250	Plastic Drum, High Intensity, Furn	Ea	15.000	
8120251	Plastic Drum, High Intensity, Oper	Ea	15.000	
8120350	Sign, Type B, Temp, Prismatic, Furn	Sft	31.000	
8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	31.000	
8120352	Sign, Type B, Temp, Prismatic, Special, Furn	Sft	8.000	
8120353	Sign, Type B, Temp, Prismatic, Special, Oper	Sft	8.000	
8127050	_Temporary No Parking Sign	Ea	7.714	
8167011	_Slope Restoration	Syd	9.600	

		QUANTITIES		
		Sign, Type B, Temp, Prismatic & *Sign, Type B, Temp, Prismatic, Special		
Quantity	Sign Code	Description	Area (sft)	Total Area (Sft)
2.0	*D3-1	Street Name Sign	4.000	8.000
2.0	W20-1	Road Work Ahead Sign	9.000	18.000
1.0	R11-3a	Road Closed Local Traffic Only	12.500	13.000
			TOTAL	39.000

CONSTRUCTION METHOD AND SEQUENCING

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O3/05/2020 GS,CE DAD Know what's belo

PUBLIC SERVICES
01 EAST HURON STREET
P.O. BOX 8647
NN ARBOR, MI 48107-8647
734-794-6410
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DR FION PROJECT - 2020 WICK CT

FACING/RESTORATIC

SLIC SERVICES - CI

INEERING - PUBLI

SCALE

NO.



PROJECT LOCATION: WARWICK CT

ITB No. BID NO FILE No. 2020-004

	QUANTITIES		
Item Code	Item Description	Unit	Quantity
2030011	Dr Structure, Rem	Ea	3.000
2030015	Sewer, Rem, Less than 24 inch	Ft	30.000
2047001	_Curb, Gutter, and Curb and Gutter, Any Type, Rem	Ft	221.000
2047011	_Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	Syd	73.330
2057011	_Grading, Driveway Approach	Syd	73.000
4020987	Sewer, Cl IV, 12 inch, Tr Det B	Ft	30.000
4030200	Dr Structure, 24 inch dia	Ea	3.000
4037050	_Dr Structure Cover, Type K, Modified	Ea	2.000
4037050	_Dr Structure, Adj, Case 1, Modified	Ea	3.000
4047001	_Underdrain, Subgrade, 6 inch, Special	Ft	60.000
5010002	Cold Milling HMA Surface	Syd	1,533.000
5010005	HMA Surface, Rem	Syd	24.556
5010703	HMA, LVSP	Ton	180.000
6027021	_Flowable Fill	Cyd	6.139
8017011	_Driveway, Nonreinf Conc, 6 inch, Modified	Syd	73.000
8027001	_Curb and Gutter, Conc, Barrier	Ft	30.000
8027001	_Driveway Opening, Conc, Det M, Modified	Ft	191.000
8110214	Pavt Mrkg, Thermopl, 12 inch, Crosswalk	Ft	80.000
8120012	Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	Ea	2.000
8120013	Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	Ea	2.000
8120250	Plastic Drum, High Intensity, Furn	Ea	15.000
8120251	Plastic Drum, High Intensity, Oper	Ea	15.000
8120350	Sign, Type B, Temp, Prismatic, Furn	Sft	31.000
8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	31.000
8120352	Sign, Type B, Temp, Prismatic, Special, Furn	Sft	8.000
8120353	Sign, Type B, Temp, Prismatic, Special, Oper	Sft	8.000
8127050	_Temporary No Parking Sign	Ea	12.657
8167011	_Slope Restoration	Syd	88.400
8507050	_HMA Surface, Around Structure Cover, Rem	Ea	6.000

QUANTITIES				
		Sign, Type B, Temp, Prismatic & *Sign, Type B, Temp, Prismatic, Special		
Quantity	Sign Code	Description	Area (sft)	Total Area (Sft)
2.0	*D3-1	Street Name Sign	4.000	8.000
2.0	W20-1	Road Work Ahead Sign	9.000	18.000
1.0	R11-3a	Road Closed Local Traffic Only	12.500	13.000
			TOTAL	39.000

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| Call before you | DATE | DRAWN | CHECKED | Call before you | DATE | DRAWN | CHECKED | Call before you | Checked | Call before you | Call

TTY OF ANN ARBOR PUBLIC SERVICES II EAST HURON STREET P.O. BOX 8647 IN ARBOR, MI 48107-8647 734-794-6410 www.a2gov.org



ATION PROJECT - 2
ARWICK CT

ESURFACING/RESTC KENT ST WALTHAM DE

JBLIC SERVICES -STREET RESUF

INEERING - PUB

SCALE

No.



PROJECT LOCATION: MOREHEAD CT

ITB No. BID NO FILE No. 2020-004

Item Code	Item Description	Unit	Quantity
2047001	_Curb, Gutter, and Curb and Gutter, Any Type, Rem	Ft	40.000
2057011	_Machine Grading, Special	Syd	3,923.00
2057021	_Subgrade Undercutting, Type IIA	Cyd	325.30
2080020	Erosion Control, Inlet Protection, Fabric Drop	Ea	7.00
4037050	_Dr Structure Cover, Type B, Modified	Ea	2.000
4037050	_Dr Structure, Adj, Case 1, Modified	Ea	2.000
4037050	_Dr Structure, Temp Lowering, Modified	Ea	4.00
5010002	Cold Milling HMA Surface	Syd	3,923.000
5010005	HMA Surface, Rem	Syd	4.44
5010703	HMA, LVSP	Ton	910.00
6027021	_Flowable Fill	Cyd	1.11
8027001	_Curb and Gutter, Conc, Barrier	Ft	40.00
8110197	Pavt Mrkg, Thermopl, 6 inch, Crosswalk	Ft	65.00
8120012	Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	Ea	2.00
8120013	Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	Ea	2.00
8120250	Plastic Drum, High Intensity, Furn	Ea	15.000
8120251	Plastic Drum, High Intensity, Oper	Ea	15.000
8120350	Sign, Type B, Temp, Prismatic, Furn	Sft	31.00
8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	31.00
8120352	Sign, Type B, Temp, Prismatic, Special, Furn	Sft	8.00
8120353	Sign, Type B, Temp, Prismatic, Special, Oper	Sft	8.00
8127050	_Temporary No Parking Sign	Ea	34.85
8167011	_Slope Restoration	Syd	16.00
8217050	_Monument Box, Adj	Ea	2.000

	QUANTITIES				
		Sign, Type B, Temp, Prismatic & *Sign, Type B, Temp, Prismatic, Special			
Quantity	Sign Code	Description	Area (sft)	Total Area (Sft)	
2.0	*D3-1	Street Name Sign	4.000	8.000	
2.0	W20-1	Road Work Ahead Sign	9.000	18.000	
1.0	R11-3a	Road Closed Local Traffic Only	12.500	13.000	
			TOTAL	39.000	

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NOTES:

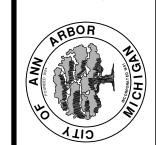
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03/05/2020 GS,CE DAD Know what's belove you Call before you

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PUBLIC SERVICES
301 EAST HURON STREET
P.O. BOX 8647
ANN ARBOR, MI 48107-8647
734-794-6410
www.a2gov.org



N PROJECT - 2020 FINTH ST

ACING/RESTORATION
AD CT NEWBURY CT & S SEVI

SERVICES - CITY
REET RESURFACI

PUBLIC SERVICES
STREET RESU

IGINEERING - PI

DRAWING No.

NO.



PROJECT LOCATION: NEWBURY CT

ITB No. BID NO FILE No. 2020-004

Item Code	QUANTITIES Item Description	Unit	Quantity
2030011	Dr Structure, Rem	Ea	4.000
2030011	Sewer, Rem, Less than 24 inch	Ft	40.000
2047001	_Curb, Gutter, and Curb and Gutter, Any Type, Rem	Ft	80.000
2057021	_Subgrade Undercutting, Type IIA	Cyd	28.000
2080020	Erosion Control, Inlet Protection, Fabric Drop	Ea	4.000
4037050	_Dr Structure Cover, Type K, Modified	Ea	4.000
4037050	_Dr Structure, Adj, Case 1, Modified	Ea	4.000
5010002	Cold Milling HMA Surface	Syd	2,061.000
5010005	HMA Surface, Rem	Syd	8.889
5010703	HMA, LVSP	Ton	240.000
6027021	_Flowable Fill	Cyd	2.222
8027001	_Curb and Gutter, Conc, Barrier	Ft	80.000
8110197	Pavt Mrkg, Thermopl, 6 inch, Crosswalk	Ft	73.000
8120012	Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	Ea	2.000
8120013	Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	Ea	2.000
8120250	Plastic Drum, High Intensity, Furn	Ea	15.000
8120251	Plastic Drum, High Intensity, Oper	Ea	15.000
8120350	Sign, Type B, Temp, Prismatic, Furn	Sft	31.000
8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	31.000
8120352	Sign, Type B, Temp, Prismatic, Special, Furn	Sft	8.000
8120353	Sign, Type B, Temp, Prismatic, Special, Oper	Sft	8.000
8127050	_Temporary No Parking Sign	Ea	13.286
8167011	_Slope Restoration	Syd	32.000
8507050	HMA Surface, Around Structure Cover, Rem	Ea	5.000

	QUANTITIES Sign, Type B, Temp, Prismatic & *Sign, Type B, Temp, Prismatic, Special						
Quantity	Sign Code	Description	Area (sft)	Total Area (Sft)			
2.0	*D3-1	Street Name Sign	4.000	8.000			
2.0	W20-1	Road Work Ahead Sign	9.000	18.000			
1.0	R11-3a	Road Closed Local Traffic Only	12.500	13.000			
			TOTAL	39.000			

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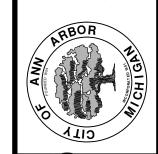
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- STRUCTURE COVERS, INCLUDING VALVE AND MONUMENT BOXES

- 8. GRADE, SHAPE, AND RE-COMPACT THE EXISTING ROAD BASE AS REQUIRED, AND AS DIRECTED BY THE
- 9. PAVE 2 INCHES OF THE BITUMINOUS MIX AS SPECIFIED OR DIRECTED, AS THE LEVELING COURSE, IN
- 10. ADJUST ALL STRUCTURE COVERS, MONUMENT BOXES, AND VALVE BOXES TO THEIR FINISHED ELEVATIONS.
- 11. PAVE 1 INCH OF THE BITUMINOUS MIX AS SPECIFIED OR DIRECTED, AS THE WEARING COURSE, IN ONE
- 12. COMPLETE ALL PAVEMENT MARKINGS IN ACCORDANCE WITH THE PLANS, AND AS DIRECTED BY THE
- 13. COMPLETE ALL MISCELLANEOUS CONSTRUCTION INCLUDING ALL CLEAN—UP AND FINAL RESTORATION.
- 14. REMOVE ALL TRAFFIC CONTROL DEVICES. REMOVE MISS DIG FLAGS.

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

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PROJECT LOCATION: S SEVENTH ST

ITB No. BID NO FILE No. 2020-004

QUANTITIES				
Item Code	Item Description	Unit	Quantity	
2030011	Dr Structure, Rem	Ea	2.000	
2030015	Sewer, Rem, Less than 24 inch	Ft	20.000	
2047001	_Curb, Gutter, and Curb and Gutter, Any Type, Rem	Ft	40.000	
2080020	Erosion Control, Inlet Protection, Fabric Drop	Ea	2.000	
5010002	Cold Milling HMA Surface	Syd	1,998.000	
5010005	HMA Surface, Rem	Syd	4.444	
5010703	HMA, LVSP	Ton	240.000	
6027021	_Flowable Fill	Cyd	1.111	
8027001	_Curb and Gutter, Conc, Barrier	Ft	40.000	
8110197	Pavt Mrkg, Thermopl, 6 inch, Crosswalk	Ft	98.000	
8120012	Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	Ea	2.000	
8120013	Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	Ea	2.000	
8120250	Plastic Drum, High Intensity, Furn	Ea	15.000	
8120251	Plastic Drum, High Intensity, Oper	Ea	15.000	
8120350	Sign, Type B, Temp, Prismatic, Furn	Sft	31.000	
8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	31.000	
8120352	Sign, Type B, Temp, Prismatic, Special, Furn	Sft	8.000	
8120353	Sign, Type B, Temp, Prismatic, Special, Oper	Sft	8.000	
8127050	_Temporary No Parking Sign	Ea	10.286	
8167011	_Slope Restoration	Syd	16.000	
8507050	_HMA Surface, Around Structure Cover, Rem	Ea	2.000	

QUANTITIES					
	,	Sign, Type B, Temp, Prismatic & *Sign, Type B, Temp, Prismatic, Special	,		
Quantity	Sign Code	Description	Area (sft)	Total Area (Sft)	
2.0	*D3-1	Street Name Sign	4.000	• • •	
2.0	W20-1	Road Work Ahead Sign	9.000	18.000	
1.0	R11-3a	Road Closed Local Traffic Only	12.500	13.000	
			TOTAL	39.000	

CONSTRUCTION METHOD AND SEQUENCING

- 1. THE WORK TO BE COMPLETED ON THIS STREET SHALL INCLUDE, BUT NOT BE LIMITED TO THE FOLLOWING ITEMS. THE ORDER OF CONSTRUCTION SHALL BE AS GIVEN UNLESS OTHERWISE AUTHORIZED OR DIRECTED BY THE ENGINEER
- 2. IMPLEMENT TRAFFIC MAINTENANCE, AND SOIL EROSION CONTROLS IN ACCORDANCE WITH THE PLAI AND AS DIRECTED BY THE ENGINEER.
- 3. INSTALL ANY PROPOSED STORM SEWER, AND UNDERDRAIN AS SHOWN ON THE PLANS, AND AS DIRECTED BY THE ENGINEER.
- 4. LOWER ALL STRUCTURE COVERS, INCLUDING VALVE AND MONUMENT BOXES
- PERFORM ALL CONCRETE WORK, INCLUDING RESTORATION, IN ACCORDANCE WITH THE PLANS, AND AS DIRECTED BY THE ENGINEER.
- 6. MILL 3 INCHES OF BITUMINOUS MATERIAL FROM EXISTING ROADWAY. THIS MAY INCLUDE GRANULAR ROAD BASE MATERIAL. DEPTH TO BE DETERMINED BY THE ENGINEER. PROOF ROLL WITH FULL TRUCK
- 7. PERFORM UNDERCUTS AND/OR BASE REPAIRS AS DIRECTED BY THE ENGINEE
- 8. GRADE, SHAPE, AND RE—COMPACT THE EXISTING ROAD BASE AS REQUIRED, AND AS DIRECTED BY THI ENGINEER.
- 9. PAVE 2 INCHES OF THE BITUMINOUS MIX AS SPECIFIED OR DIRECTED, AS THE LEVELING COURSE, IN ONE LIFT.
- 10. ADJUST ALL STRUCTURE COVERS, MONUMENT BOXES, AND VALVE BOXES TO THEIR FINISHED ELEVATIONS.
- 11. PAVE 1 INCH OF THE BITUMINOUS MIX AS SPECIFIED OR DIRECTED, AS THE WEARING COURSE, IN ONE LIFT.
- 12. COMPLETE ALL PAVEMENT MARKINGS IN ACCORDANCE WITH THE PLANS, AND AS DIRECTED BY THE ENGINEER.
- 13. COMPLETE ALL MISCELLANEOUS CONSTRUCTION INCLUDING ALL CLEAN-UP AND FINAL RESTORATION.
- 14. REMOVE ALL TRAFFIC CONTROL DEVICES. REMOVE MISS DIG FLAGS.

NOTES:

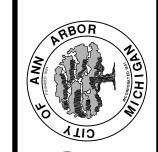
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03/05/2020 GS,CE DAD Know what's below what's below what's below DATE DRAWN CHECKED

PUBLIC SERVICES
PUBLIC SERVICES
01 EAST HURON STREET
P.O. BOX 8647
NN ARBOR, MI 48107-8647
734-794-6410
www.a2gov.org



ATION PROJECT - 20

URFACING/RESTORA
OREHEAD CT NEWBURY CT & S

C SERVICES - CIT STREET RESURFA MOREHEA

RING - PUBLIC SER STREE

ENGINEERING ALE

DRAWIN **2020-**

140.



PROJECT LOCATION: NORFOLK ST

ITB No. BID NO FILE No. 2020-004

CONSTRUCTION METHOD AND SEQUENCING

- IMPLEMENT TRAFFIC MAINTENANCE, AND SOIL EROSION CONTROLS IN ACCORDANCE WITH THE PLANS,
- INSTALL ANY PROPOSED STORM SEWER, AND UNDERDRAIN AS SHOWN ON THE PLANS, AND AS
- LOWER ALL STRUCTURE COVERS, INCLUDING VALVE AND MONUMENT BOXES.
- MILL 3 INCHES OF BITUMINOUS MATERIAL FROM EXISTING ROADWAY. THIS MAY INCLUDE GRANULAR
- PERFORM UNDERCUTS AND/OR BASE REPAIRS AS DIRECTED BY THE ENGINEER
- 8. GRADE, SHAPE, AND RE-COMPACT THE EXISTING ROAD BASE AS REQUIRED, AND AS DIRECTED BY THE
- 9. PAVE 2 INCHES OF THE BITUMINOUS MIX AS SPECIFIED OR DIRECTED, AS THE LEVELING COURSE, IN
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- 14. REMOVE ALL TRAFFIC CONTROL DEVICES. REMOVE MISS DIG FLAGS.

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PROJECT LOCATION: SUFFOLK ST

ITB No. BID NO FILE No. 2020-004

CONSTRUCTION METHOD AND SEQUENCING

- IMPLEMENT TRAFFIC MAINTENANCE, AND SOIL EROSION CONTROLS IN ACCORDANCE WITH THE PLANS,
- INSTALL ANY PROPOSED STORM SEWER, AND UNDERDRAIN AS SHOWN ON THE PLANS, AND AS
- LOWER ALL STRUCTURE COVERS, INCLUDING VALVE AND MONUMENT BOXES.
- MILL 3 INCHES OF BITUMINOUS MATERIAL FROM EXISTING ROADWAY. THIS MAY INCLUDE GRANULAR
- PERFORM UNDERCUTS AND/OR BASE REPAIRS AS DIRECTED BY THE ENGINEER
- 8. GRADE, SHAPE, AND RE-COMPACT THE EXISTING ROAD BASE AS REQUIRED, AND AS DIRECTED BY THE
- 9. PAVE 2 INCHES OF THE BITUMINOUS MIX AS SPECIFIED OR DIRECTED, AS THE LEVELING COURSE, IN
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PROJECT LOCATION: RUNNYMEDE BLVD

ITB No. BID NO FILE No. 2020-004

Item Code	QUANTITIES Item Description	Unit	Quantity
2030011	Dr Structure, Rem	Ea	13.00
2030015	Sewer, Rem, Less than 24 inch	Ft	130.00
2047001	Curb, Gutter, and Curb and Gutter, Any Type, Rem	Ft	718.00
2047011	Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	Syd	92.66
2057011	_Grading, Driveway Approach	Syd	83.00
2057011	Grading, Sidewalk Ramp	Syd	10.00
2057011	Machine Grading, Special	Syd	6,645.67
2057021	Subgrade Undercutting, Type IIA	Cyd	642.60
2080020	Erosion Control, Inlet Protection, Fabric Drop	Ea	29.00
4020987	Sewer, Cl IV, 12 inch, Tr Det B	Ft	130.00
4030200	Dr Structure, 24 inch dia	Ea	13.00
4037050	_Dr Structure Cover, Type B, Modified	Ea	8.00
4037050	Dr Structure Cover, Type K, Modified	Ea	13.00
4037050	Dr Structure, Adj, Case 1, Modified	Ea	42.00
4037050	_Dr Structure, Temp Lowering, Modified	Ea	30.00
4047001	_Underdrain, Subgrade, 6 inch, Special	Ft	260.00
5010002	Cold Milling HMA Surface	Syd	6,646.00
5010005	HMA Surface, Rem	Syd	79.77
5010703	HMA, LVSP	Ton	1,540.00
6027021	Flowable Fill	Cyd	19.94
8017011		Syd	83.00
8027001	Curb and Gutter, Conc, Barrier	Ft	254.00
8027001	Driveway Opening, Conc, Det M, Modified	Ft	434.00
8030030	Curb Ramp Opening, Conc	Ft	28.00
8037001	Detectable Warning Surface, Modified	Ft	20.00
8037010	_Sidewalk Ramp, Conc, 6 inch, Modified	Sft	90.00
8110197	Pavt Mrkg, Thermopl, 6 inch, Crosswalk	Ft	395.00
8110214	Pavt Mrkg, Thermopl, 12 inch, Crosswalk	Ft	90.00
8110218	Pavt Mrkg, Thermopl, 24 inch, Stop Bar	Ft	15.00
8120012	Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	Ea	20.00
8120013	Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	Ea	20.00
8120250	Plastic Drum, High Intensity, Furn	Ea	15.00
8120251	Plastic Drum, High Intensity, Oper	Ea	15.00
8120350	Sign, Type B, Temp, Prismatic, Furn	Sft	194.00
8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	194.00
8120352	Sign, Type B, Temp, Prismatic, Special, Furn	Sft	36.00
8120353	Sign, Type B, Temp, Prismatic, Special, Oper	Sft	36.00
8127050	Pedestrian Type II Barricade, Temp	Ea	8.00
8127050	Temporary No Parking Sign	Ea	55.08
8167011	Slope Restoration	Syd	287.20
8230431	Gate Box, Adj, Case 1	Ea	1.00

	QUANTITIES Sign Type B. Temp Dylametic 8 *Sign Type B. Temp Dylametic Special						
Quantity	Sign Code	Sign, Type B, Temp, Prismatic & *Sign, Type B, Temp, Prismatic, Special Description	Area (sft)	Total Area (Sft)			
9.0	*D3-1	Street Name Sign	4.000	36.000			
9.0	W20-1	Road Work Ahead Sign	9.000	81.000			
9.0	R11-3a	Road Closed Local Traffic Only	12.500	113.000			
			TOTAL	230.000			

CONSTRUCTION METHOD AND SEQUENCING

- 1. THE WORK TO BE COMPLETED ON THIS STREET SHALL INCLUDE, BUT NOT BE LIMITED TO THE FOLLOWING ITEMS. THE ORDER OF CONSTRUCTION SHALL BE AS GIVEN UNLESS OTHERWISE AUTHORIZE OR DIRECTED BY THE ENGINEER.
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- INSTALL ANY PROPOSED STORM SEWER, AND UNDERDRAIN AS SHOWN ON THE PLANS, AND AS DIRECTED BY THE ENGINEER.
- 4. LOWER ALL STRUCTURE COVERS, INCLUDING VALVE AND MONUMENT BOXES
- DIRECTED BY THE ENGINEER.
 SOURCE OF THE PLANS, AND A DIRECTED BY THE ENGINEER.
- 6. MILL 3 INCHES OF BITUMINOUS MATERIAL FROM EXISTING ROADWAY. THIS MAY INCLUDE GRANULAR ROAD BASE MATERIAL. DEPTH TO BE DETERMINED BY THE ENGINEER. PROOF ROLL WITH FULL TRUCK
- 7. PERFORM UNDERCUTS AND/OR BASE REPAIRS AS DIRECTED BY THE ENGINEE
- 8. GRADE, SHAPE, AND RE—COMPACT THE EXISTING ROAD BASE AS REQUIRED, AND AS DIRECTED BY THE ENGINEER.
- 9. PAVE 2 INCHES OF THE BITUMINOUS MIX AS SPECIFIED OR DIRECTED, AS THE LEVELING COURSE, IN ONE LIFT.
- 10. ADJUST ALL STRUCTURE COVERS, MONUMENT BOXES, AND VALVE BOXES TO THEIR FINISHED ELEVATIONS.
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- 13. COMPLETE ALL MISCELLANEOUS CONSTRUCTION INCLUDING ALL CLEAN-UP AND FINAL RESTORATION.
- 14. REMOVE ALL TRAFFIC CONTROL DEVICES. REMOVE MISS DIG FLAGS.

NOTES:

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CRIPTION

O3/05/2020
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DAD
Know what's belov
Call before you

CITY OF ANN ARBOR
PUBLIC SERVICES
301 EAST HURON STREET
P.O. BOX 8647
ANN ARBOR, MI 48107-8647
734-734-6410
www.a2gov.org



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ESURFACING/R

SLIC SERVICES -STREET RESUR

NEERING - PUBLIC

SCALE DRAWING No.

No.



PROJECT LOCATION: WIMPOLE ST

ITB No. BID NO FILE No. 2020-004

QUANTITIES				
Item Code	Item Description	Unit	Quantity	
2080020	Erosion Control, Inlet Protection, Fabric Drop	Ea	3.000	
5010002	Cold Milling HMA Surface	Syd	443.000	
5010703	HMA, LVSP	Ton	60.000	
8110214	Pavt Mrkg, Thermopl, 12 inch, Crosswalk	Ft	112.000	
8110218	Pavt Mrkg, Thermopl, 24 inch, Stop Bar	Ft	15.000	
8120012	Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	Ea	4.000	
8120013	Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	Ea	4.000	
8120250	Plastic Drum, High Intensity, Furn	Ea	15.000	
8120251	Plastic Drum, High Intensity, Oper	Ea	15.000	
8120350	Sign, Type B, Temp, Prismatic, Furn	Sft	31.000	
8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	31.000	
8120352	Sign, Type B, Temp, Prismatic, Special, Furn	Sft	8.000	
8120353	Sign, Type B, Temp, Prismatic, Special, Oper	Sft	8.000	
8127050	_Temporary No Parking Sign	Ea	3.229	
8507050	_HMA Surface, Around Structure Cover, Rem	Ea	1.000	

	QUANTITIES Sign, Type B, Temp, Prismatic & *Sign, Type B, Temp, Prismatic, Special						
Quantity	Sign Code	Description	Area (sft)	Total Area (Sft)			
2.0	*D3-1	Street Name Sign	4.000	8.000			
2.0	W20-1	Road Work Ahead Sign	9.000	18.000			
1.0	R11-3a	Road Closed Local Traffic Only	12.500	13.000			
			TOTAL	39.000			

CONSTRUCTION METHOD AND SEQUENCING

- INSTALL ANY PROPOSED STORM SEWER, AND UNDERDRAIN AS SHOWN ON THE PLANS, AND AS
- LOWER ALL STRUCTURE COVERS, INCLUDING VALVE AND MONUMENT BOXES

- PERFORM UNDERCUTS AND/OR BASE REPAIRS AS DIRECTED BY THE ENGINEER
- 8. GRADE, SHAPE, AND RE-COMPACT THE EXISTING ROAD BASE AS REQUIRED, AND AS DIRECTED BY THE
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- 14. REMOVE ALL TRAFFIC CONTROL DEVICES. REMOVE MISS DIG FLAGS.

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PROJECT LOCATION: SAXON ST

ITB No. BID NO FILE No. 2020-004

	QUANTITIES		
Item Code	Item Description	Unit	Quantity
2030011	Dr Structure, Rem	Ea	4.000
2030015	Sewer, Rem, Less than 24 inch	Ft	40.000
2047001	_Curb, Gutter, and Curb and Gutter, Any Type, Rem	Ft	295.000
2047011	_Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	Syd	63.330
2057011	_Grading, Driveway Approach	Syd	42.000
2057011	_Grading, Sidewalk	Syd	11.111
2057011	_Grading, Sidewalk Ramp	Syd	10.000
2057011	_Machine Grading, Special	Syd	3,690.000
2057021	_Subgrade Undercutting, Type IIA	Cyd	368.963
2080020	Erosion Control, Inlet Protection, Fabric Drop	Ea	8.000
4020987	Sewer, Cl IV, 12 inch, Tr Det B	Ft	40.000
4030200	Dr Structure, 24 inch dia	Ea	4.000
4037050	_Dr Structure Cover, Type K, Modified	Ea	4.000
4037050	_Dr Structure, Adj, Case 1, Modified	Ea	4.000
4047001	_Underdrain, Subgrade, 6 inch, Special	Ft	80.000
5010703	HMA, LVSP	Ton	430.000
6027021	_Flowable Fill	Cyd	8.194
8017011	_Driveway, Nonreinf Conc, 6 inch, Modified	Syd	42.000
8027001	_Curb and Gutter, Conc, Barrier	Ft	64.000
8027001	_Driveway Opening, Conc, Det M, Modified	Ft	213.000
8030030	Curb Ramp Opening, Conc	Ft	14.000
8037001	_Detectable Warning Surface, Modified	Ft	10.000
8037010	_Sidewalk Ramp, Conc, 6 inch, Modified	Sft	90.000
8037010	_Sidewalk, Conc, 4 inch, Modified	Sft	100.000
8120012	Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	Ea	4.000
8120013	Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	Ea	4.000
8120250	Plastic Drum, High Intensity, Furn	Ea	15.000
8120251	Plastic Drum, High Intensity, Oper	Ea	15.000
8120350	Sign, Type B, Temp, Prismatic, Furn	Sft	25.000
8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	25.000
8127050	_Pedestrian Type II Barricade, Temp	Ea	6.000
8127050	_Temporary No Parking Sign	Ea	31.629
8167011	_Slope Restoration	Syd	118.000
8507050	_HMA Surface, Around Structure Cover, Rem	Ea	11.000

		QUANTITIES		
Quantity	Sign Code	Description	Area (sft)	Total Area (Sft)
2.0	R11-3a	Road Closed Local Traffic Only	12.500	25.000
			TOTAL	25.000

CONSTRUCTION METHOD AND SEQUENCING

- 1. THE WORK TO BE COMPLETED ON THIS STREET SHALL INCLUDE, BUT NOT BE LIMITED TO THE FOLLOWING ITEMS. THE ORDER OF CONSTRUCTION SHALL BE AS GIVEN UNLESS OTHERWISE AUTHORIZE OR DIRECTED BY THE ENGINEER.
- 2. IMPLEMENT TRAFFIC MAINTENANCE, AND SOIL EROSION CONTROLS IN ACCORDANCE WITH THE PLANS, AND AS DIRECTED BY THE ENGINEER.
- 3. INSTALL ANY PROPOSED STORM SEWER, AND UNDERDRAIN AS SHOWN ON THE PLANS, AND AS DIRECTED BY THE ENGINEER.
- 4. LOWER ALL STRUCTURE COVERS, INCLUDING VALVE AND MONUMENT BOXES.
- 5. PERFORM ALL CONCRETE WORK, INCLUDING RESTORATION, IN ACCORDANCE WITH THE PLANS, AND AS DIRECTED BY THE ENGINEER.
- . MILL 3 INCHES OF BITUMINOUS MATERIAL FROM EXISTING ROADWAY. THIS MAY INCLUDE GRANULAR ROAD BASE MATERIAL. DEPTH TO BE DETERMINED BY THE ENGINEER. PROOF ROLL WITH FULL TRUCK.
- 7. PERFORM UNDERCUTS AND/OR BASE REPAIRS AS DIRECTED BY THE ENGINEER
- 8. GRADE, SHAPE, AND RE-COMPACT THE EXISTING ROAD BASE AS REQUIRED, AND AS DIRECTED BY THE ENGINEER.
- 9. PAVE 2 INCHES OF THE BITUMINOUS MIX AS SPECIFIED OR DIRECTED, AS THE LEVELING COURSE, IN ONE LIFT.
- 10. ADJUST ALL STRUCTURE COVERS, MONUMENT BOXES, AND VALVE BOXES TO THEIR FINISHED ELEVATIONS.
- 11. PAVE 1 INCH OF THE BITUMINOUS MIX AS SPECIFIED OR DIRECTED, AS THE WEARING COURSE, IN ONE LIFT.
- 12. COMPLETE ALL PAVEMENT MARKINGS IN ACCORDANCE WITH THE PLANS, AND AS DIRECTED BY THE ENGINEER.
- 13. COMPLETE ALL MISCELLANEOUS CONSTRUCTION INCLUDING ALL CLEAN-UP AND FINAL RESTORATION.
- 14. REMOVE ALL TRAFFIC CONTROL DEVICES. REMOVE MISS DIG FLAGS.

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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V. DESCRIPTION DATE DRAWN CHECKED Call before you

CITY OF ANN ARBOR
PUBLIC SERVICES
301 EAST HURON STREET
P.O. BOX 8647
ANN ARBOR, MI 48107-8647
734-794-6410
www.a2gov.org



PROJECT - 2020 (€)

/RESTORATION PR

RESURFACING/RE

BLIC SERVICES -STREET RESUR

NEERING - PUBI

SCALE

o. DRAV



PROJECT LOCATION: WALTHAM DR

ITB No. BID NO FILE No. 2020-004

Item Code	QUANTITIES Item Description	Unit	Quantity
2030011	Dr Structure, Rem	Ea	3.000
2030015	Sewer, Rem, Less than 24 inch	Ft	30.000
2047001	_Curb, Gutter, and Curb and Gutter, Any Type, Rem	Ft	309.000
2047011		Syd	73.330
2057011	_Grading, Driveway Approach	Syd	73.000
2080020	Erosion Control, Inlet Protection, Fabric Drop	Ea	8.000
4020987	Sewer, Cl IV, 12 inch, Tr Det B	Ft	30.000
4030200	Dr Structure, 24 inch dia	Ea	3.000
4037050	_Dr Structure Cover, Type K, Modified	Ea	3.000
4037050	_Dr Structure, Adj, Case 1, Modified	Ea	3.000
4047001	_Underdrain, Subgrade, 6 inch, Special	Ft	60.000
5010002	Cold Milling HMA Surface	Syd	4,037.000
5010005	HMA Surface, Rem	Syd	34.333
5010703	HMA, LVSP	Ton	470.000
6027021	_Flowable Fill	Cyd	8.583
8017011	_Driveway, Nonreinf Conc, 6 inch, Modified	Syd	73.000
8027001	_Curb and Gutter, Conc, Barrier	Ft	101.000
8027001	_Driveway Opening, Conc, Det M, Modified	Ft	208.000
8110197	Pavt Mrkg, Thermopl, 6 inch, Crosswalk	Ft	60.000
8110218	Pavt Mrkg, Thermopl, 24 inch, Stop Bar	Ft	15.000
8120012	Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	Ea	4.000
8120013	Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	Ea	4.000
8120250	Plastic Drum, High Intensity, Furn	Ea	15.000
8120251	Plastic Drum, High Intensity, Oper	Ea	15.000
8120350	Sign, Type B, Temp, Prismatic, Furn	Sft	52.000
8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	52.000
8120352	Sign, Type B, Temp, Prismatic, Special, Furn	Sft	36.000
8120353	Sign, Type B, Temp, Prismatic, Special, Oper	Sft	36.000
8127050	_Temporary No Parking Sign	Ea	34.600
8167011	_Slope Restoration	Syd	123.600
8507050	_HMA Surface, Around Structure Cover, Rem	Ea	15.000

QUANTITIES Sign, Type B, Temp, Prismatic & *Sign, Type B, Temp, Prismatic, Special					
Quantity	Sign Code	Description	Area (sft)	Total Area (Sft)	
9.0	*D3-1	Street Name Sign	4.000	36.000	
3.0	W20-1	Road Work Ahead Sign	9.000	27.000	
2.0	R11-3a	Road Closed Local Traffic Only	12.500	25.000	
			TOTAL	88.000	

CONSTRUCTION METHOD AND SEQUENCING

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- 4. LOWER ALL STRUCTURE COVERS, INCLUDING VALVE AND MONUMENT BOXES
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- 7. PERFORM UNDERCUTS AND/OR BASE REPAIRS AS DIRECTED BY THE ENGINEE
- 8. GRADE, SHAPE, AND RE—COMPACT THE EXISTING ROAD BASE AS REQUIRED, AND AS DIRECTED BY THI ENGINEER.
- 9. PAVE 2 INCHES OF THE BITUMINOUS MIX AS SPECIFIED OR DIRECTED, AS THE LEVELING COURSE, IN ONE LIFT.
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- 13. COMPLETE ALL MISCELLANEOUS CONSTRUCTION INCLUDING ALL CLEAN-UP AND FINAL RESTORATION.
- 14. REMOVE ALL TRAFFIC CONTROL DEVICES. REMOVE MISS DIG FLAGS.

NOTES:

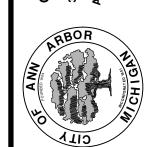
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CITY OF ANN ARBOR PUBLIC SERVICES 301 EAST HURON STREET P.O. BOX 8647 INN ARBOR, MI 48107-8647 734-794-6410 www.a2gov.org



TION PROJECT - 20

-ACING/RESTORATION ST WALTHAM DR & WIND

SERVICES - CITY
REET RESURFACI

G - PUBLIC SERVICE STREET RE

NGINEERING - F

DRAWING No.

NO.



PROJECT LOCATION: WINDSOR DR

ITB No. BID NO FILE No. 2020-004

	QUANTITIES		Ea 1.000 Ft 10.000 Syd 28.880 Syd 22.000 Syd 6.667 Ea 3.000 Ft 10.000 Ea 1.000 Ea 1.000 Syd 9.111 Ton 140.000 Syd 22.78 Syd 22.000 Ft 10.000 Ft 10.000 Ft 10.000 Syd 9.111 Ton 140.000 Syd 1.737.000 S
Item Code	Item Description	Unit	Quantity
2030011	Dr Structure, Rem	Ea	1.000
2030015	Sewer, Rem, Less than 24 inch	Ft	10.000
2047001	_Curb, Gutter, and Curb and Gutter, Any Type, Rem	Ft	82.000
2047011	_Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	Syd	28.880
2057011	_Grading, Driveway Approach	Syd	22.000
2057011	_Grading, Sidewalk Ramp	Syd	6.667
2080020	Erosion Control, Inlet Protection, Fabric Drop	Ea	3.000
4020987	Sewer, Cl IV, 12 inch, Tr Det B	Ft	10.000
4030200	Dr Structure, 24 inch dia	Ea	1.000
4037050	_Dr Structure Cover, Type K, Modified	Ea	1.000
4037050	_Dr Structure, Adj, Case 1, Modified	Ea	1.000
4047001	_Underdrain, Subgrade, 6 inch, Special	Ft	20.000
5010002	Cold Milling HMA Surface	Syd	1,137.000
5010005	HMA Surface, Rem	Syd	9.111
5010703	HMA, LVSP	Ton	140.000
6027021	_Flowable Fill	Cyd	2.278
8017011	_Driveway, Nonreinf Conc, 6 inch, Modified	Syd	22.000
8027001	_Curb and Gutter, Conc, Barrier	Ft	10.000
8027001	_Driveway Opening, Conc, Det M, Modified	Ft	66.000
8030030	Curb Ramp Opening, Conc	Ft	7.000
8037001	_Detectable Warning Surface, Modified	Ft	5.000
8037010	_Sidewalk Ramp, Conc, 6 inch, Modified	Sft	60.000
8120012	Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	Ea	4.000
8120013	Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	Ea	4.000
8120250	Plastic Drum, High Intensity, Furn	Ea	15.000
8120251	Plastic Drum, High Intensity, Oper	Ea	15.000
8120350	Sign, Type B, Temp, Prismatic, Furn	Sft	43.000
8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	43.000
8120352	Sign, Type B, Temp, Prismatic, Special, Furn	Sft	24.000
8120353	Sign, Type B, Temp, Prismatic, Special, Oper	Sft	24.000
8127050	_Pedestrian Type II Barricade, Temp	Ea	2.000
8127050	_Temporary No Parking Sign	Ea	9.429
8167011	_Slope Restoration	Syd	32.800
8507050	HMA Surface, Around Structure Cover, Rem	Ea	2.000

	QUANTITIES Sign, Type B, Temp, Prismatic & *Sign, Type B, Temp, Prismatic, Special					
Quantity	Sign Code	Description	Area (sft)	Total Area (Sft)		
6.0	*D3-1	Street Name Sign	4.000	24.000		
2.0	W20-1	Road Work Ahead Sign	9.000	18.000		
2.0	R11-3a	Road Closed Local Traffic Only	12.500	25.000		
			TOTAL	67.000		

CONSTRUCTION METHOD AND SEQUENCING

- INSTALL ANY PROPOSED STORM SEWER, AND UNDERDRAIN AS SHOWN ON THE PLANS, AND AS
- STRUCTURE COVERS, INCLUDING VALVE AND MONUMENT BOXES

- 9. PAVE 2 INCHES OF THE BITUMINOUS MIX AS SPECIFIED OR DIRECTED, AS THE LEVELING COURSE, IN
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