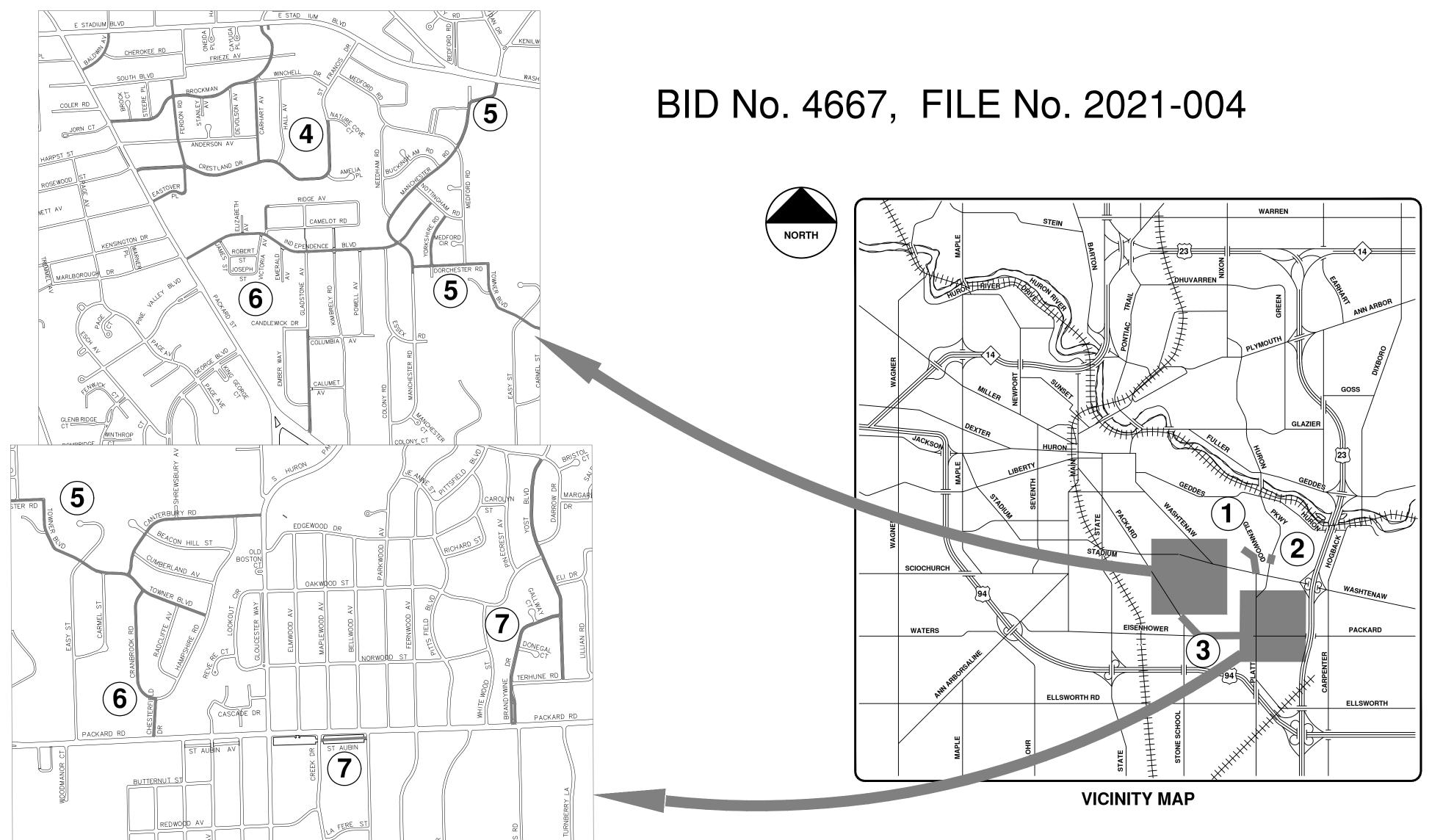


PUBLIC ACT 174 OF 2013, THE CONTRACTOR SHALL CALL 811 OR

ELECTRICAL POWER, CABLE TV AND FIBER OPTIC LINES ARE

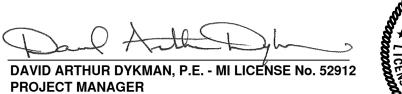
STANDARD SPECIFICATIONS, IT'S DETAILS, WHICH ARE INCLUDED BY REFERENCE, AND THIS PROJECT'S CONTRACT DOCUMENTS. THE OMISSION OF ANY CURRENT STANDARD DETAIL DOES NOT RELIEVE THE CONTRACTOR

STREET RESURFACING PROJECT - 2021



SHEET INDEX				
SHEET NO.	TITLE	MAP INDEX NO. (THIS SHEET)		
1	COVER SHEET			
2	NOTES AND MISCELLANEOUS QUANTITIES			
3	SOIL EROSION AND SEDIMENTATION CONTROL (SESC) NOTES AND DETAILS			
4	DETAILS			
5-12	TRAFFIC CALMING DETAIL			
13-14	LOCAL STREET TRAFFIC CONTROL			
15-22	PACKARD STREET HMA PATH	1		
23-25	HURON PKWY APPROACH TO LINDSAY LANE	2		
26-30	GLENWOOD ROAD	3		
31-38	PHASE 1 - BALDWIN AVE, BROCKMAN BLVD, CARHART AVE, CRESTLAND ST, EASTOVER PLACE, FERDON RD, SAINT FRANCIS DR	4		
39-44	PHASE 2A - CANTERBURY RD, DORCHESTER RD, INDEPENDENCE BLVD 2, MANCHESTER RD, TOWNER BLVD	5		
4-51	PHASE 2B - CHESTERFIELD ST, CRANBROOK RD, GLADSTONE AVE, INDEPENDENCE BLVD 1, VICTORIA AVE, YORKSHIRE RD	6		
52-58	PHASE 3 - BRANDYWINE ST, EDDY ST, MARSHALL ST, SAINT AUBIN AVE, VERLE AVE, YOST BLVD	7		





02/20 /2021



- 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
*RIGHT-OF-WAY CONSTRUCTION PERMIT	MICHIGAN DEPARTMENT OF TRANSPORTATION

PUBLIC UTILITIES	OWNER	CONTACT
WATER		DAN WOODEN (734) 794-6350 DWOODEN@A2GOV.ORG
SANITARY		TRAVIS CONLEY (734) 794-6350 TCONLEY@A2GOV.ORG
STORM	CITY OF ANN ARBOR PUBLIC WORKS W.R. WHEELER SERVICE CENTER 4251 STONE SCHOOL ROAD	KEVIN SCHNEIDER (734) 794–6350 KSCHNEIDER@A2GOV.OR
FORESTRY	ANN ARBOR, MI 48108	MATT WALDSMITH (734) 794-6350 MWALDSMITH@A2GOV.OF
SIGNS SIGNALS STREET LIGHTS		CHUCK FOJTIK (734) 794-6361 CFOJTIK © A2GOV.ORG
PRIVATE UTILITIES	OWNER	CONTACT
GAS	DTE ENERGY 3150 E. MICHIGAN AVE, YPSILANTI TOWNSHIP, MI 48198	ROBERT CZAPIEWSKI (734) 544–7818
ELECTRIC	DTE ENERGY WESTERN WAYNE SERVICE CENTER 8001 HAGGERTY ROAD BELLEVILLE, MI 48111	ANTHONY IGNASIAK (734) 397-4447
CABLE	COMCAST 27800 FRANKLIN ROAD SOUTHFIELD, MI 48034	RON SUTHERLAND (313) 999-8300
PHONE	AT&T 550 S. MAPLE ROAD ANN ARBOR, MI 48103	JEFF LEHMAN SR (734) 996-5334
FIBER OPTIC	MCI 2800 N. GLENFILLE ROAD RICHARDSON, TX 75082	DEAN BOYERS (972) 729-6016
FIBER OPTIC	WINDSTREAM 1295 S LINDEN ROAD, SUITE B FLINT, MI 48532	GREG SERICH (810) 244-3500
STREET LIGHTING	DTE ENERGY 8001 HAGGERTY ROAD BELLEVILLE, MI 48111	LANCE ALLEY (734) 397-4188

хозно	DRAWN CHECK	DATE	DESCRIPTION	REV.
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CITY OF ANN ARBOR

SHEET No.

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 ARBOR
- 4. EROSION AND SEDIMENTATION FROM WORK ON THE SITE SHALL BE CONTAINED ON THE SITE AND NOT BE ALLOWED TO COLLECT ON ANY OFF—SITE AREAS, ROADWAYS OR WATERWAYS.
- 5. ALL MUD/SOIL TRACKED ONTO ROADWAYS FROM THE SITE DUE TO CONSTRUCTION, SHALL BE PROMPTLY REMOVED BY THE CONTRACTOR. IF SO ORDERED, THE CONTRACTOR SHALL PROVIDE AND OPERATE A VACUUM—TYPE STREET SWEEPER, AT NO ADDITIONAL COST TO THE CITY OF ANN ARBOR, 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:

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

SAMPLE SOIL EROSION AND SEDIMENTATION CONTROL INSTALLATION MINIMUM REQUIREMENTS:

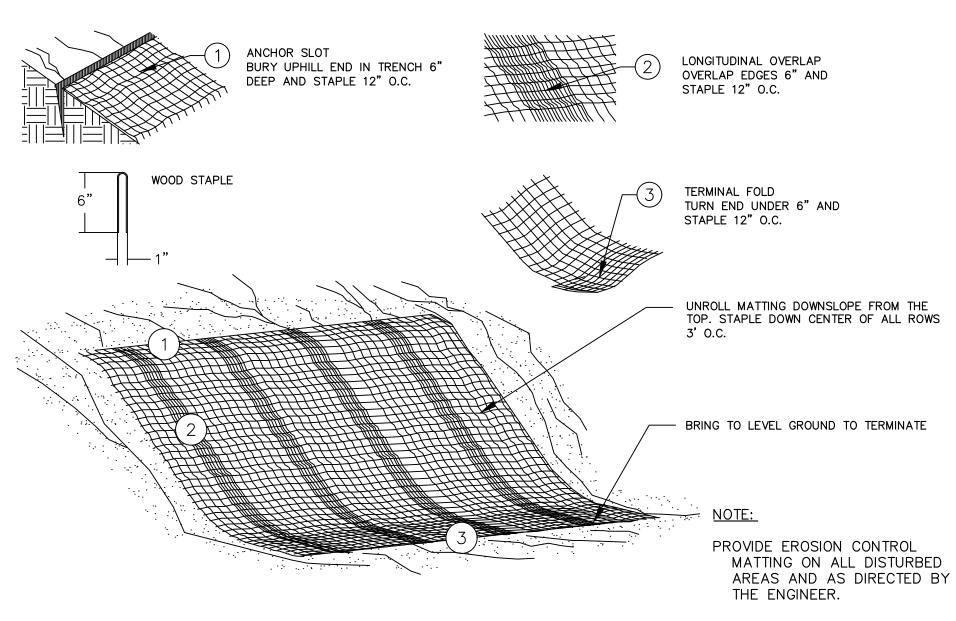
- 1.1. INSTALL SILT FENCE, TREE PROTECTION FENCING, MUD MATS, INLET FILTERS ON EXISTING DRAINAGE FEATURES, AND ALL OTHER TEMPORARY SOIL EROSION CONTROLS, PRIOR TO ANY CLEARING OR EARTH MOVING OPERATION.
- 1.2. STRIP AND STOCKPILE TOPSOIL. STABILIZE STOCKPILE AS REQUIRED.
- 1.3. INSTALL WATER MAINS, STORM AND SANITARY SEWERS, AND OTHER ENCLOSED DRAINAGE FEATURES. NEW INLET FILTERS SHALL BE INSTALLED IMMEDIATELY FOLLOWING INSTALLATION OF NEW DRAINAGE INLETS.

- 1.4. PERFORM MACHINE GRADING OPERATIONS AND CONSTRUCT PAVEMENTS (MAINLINE, SIDEWALKS, DRIVES, ETC.).
- 1.5. CONTINUALLY MAINTAIN EROSION AND SEDIMENTATION CONTROL MEASURES, AS REQUIRED TO ALLOW DRAINAGE AND SEDIMENT REMOVAL. REMOVE ANY ACCUMULATED SEDIMENT IMMEDIATELY.
- 1.6. COMPLETE ALL 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.

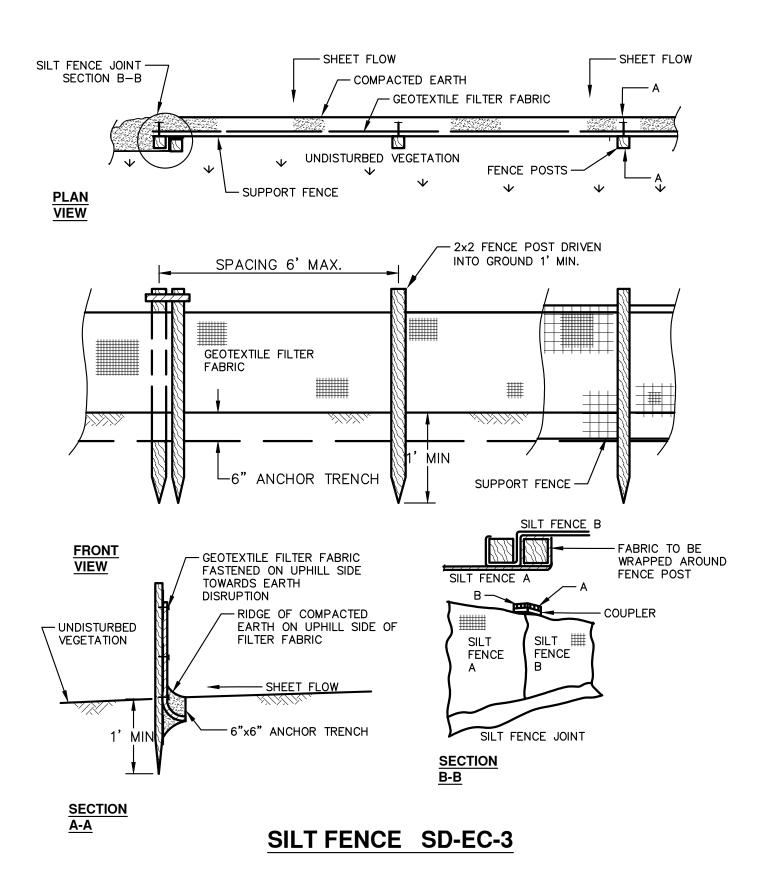
TEMPORARY SEEDING:

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



MULCH BLANKET DETAIL

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



 OR
 SS
 SECTION
 No.0
 BID ST
 Know what's below.
 Call before you dig.

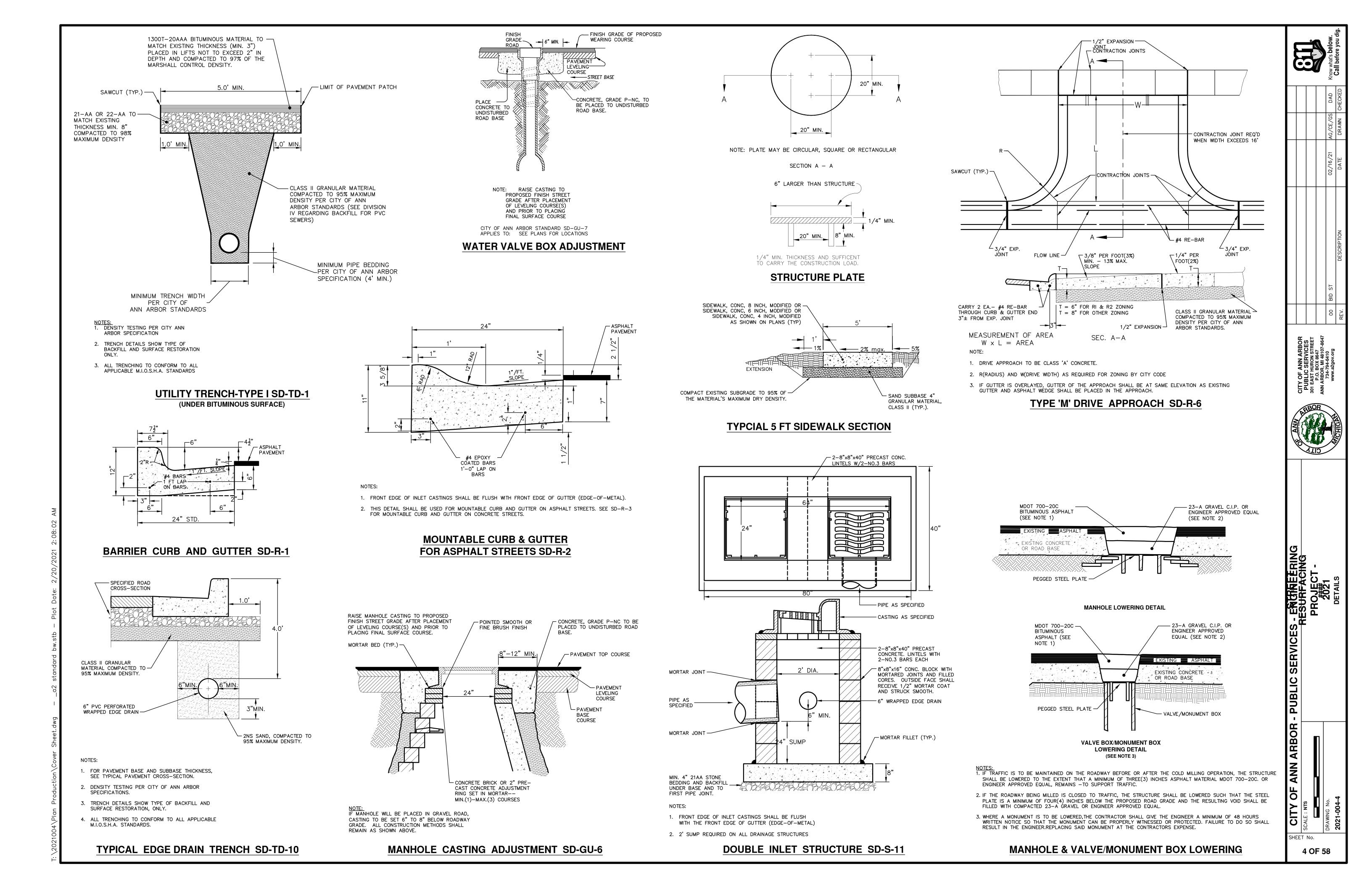
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 Call before you dig.

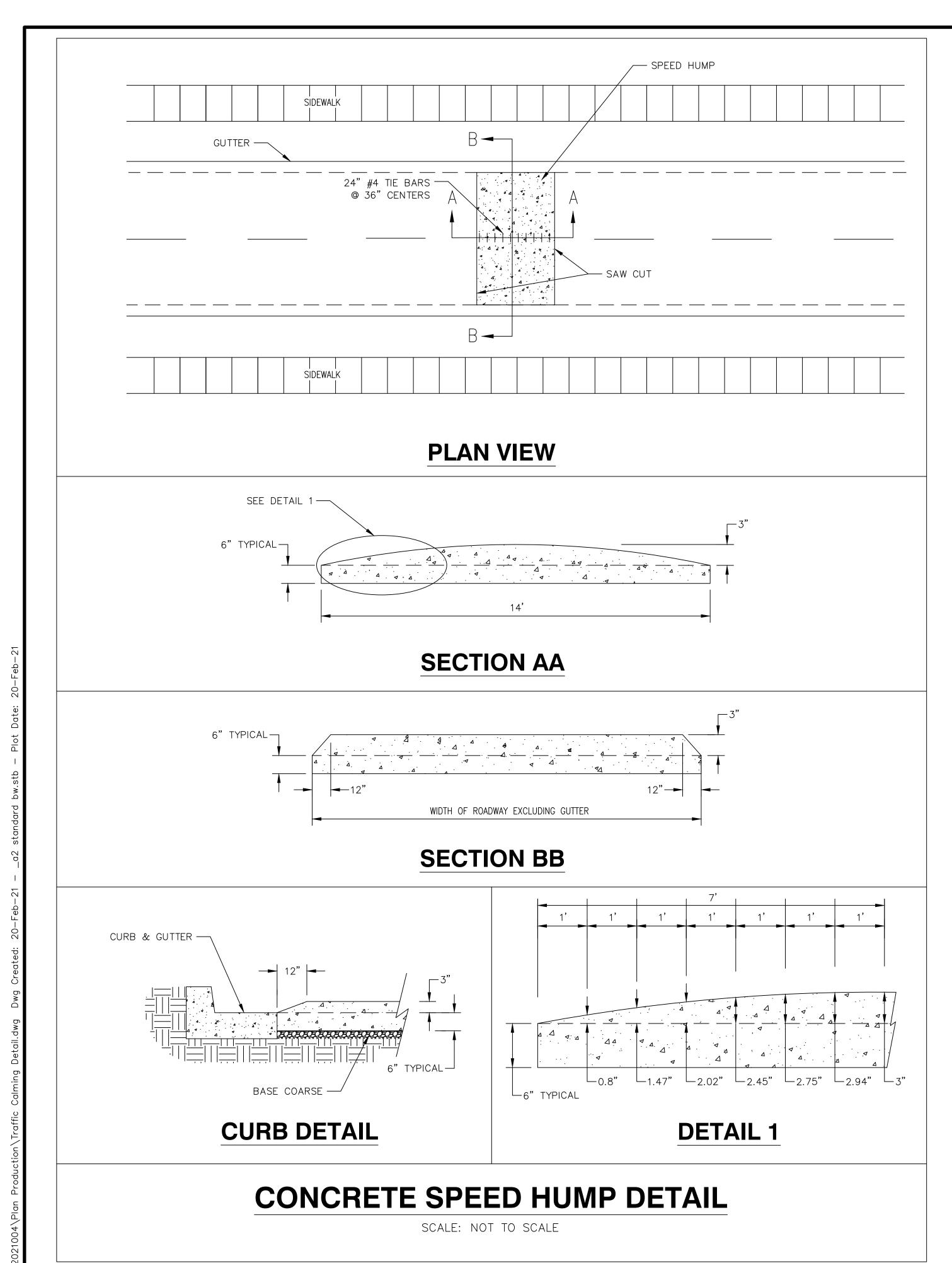
CITY OF ANN ARBC PUBLIC SERVICE: 301 EAST HURON STRE P.O. BOX 8647 ANN ARBOR, MI 48107-8 734-794-6410 www.a2gov.org

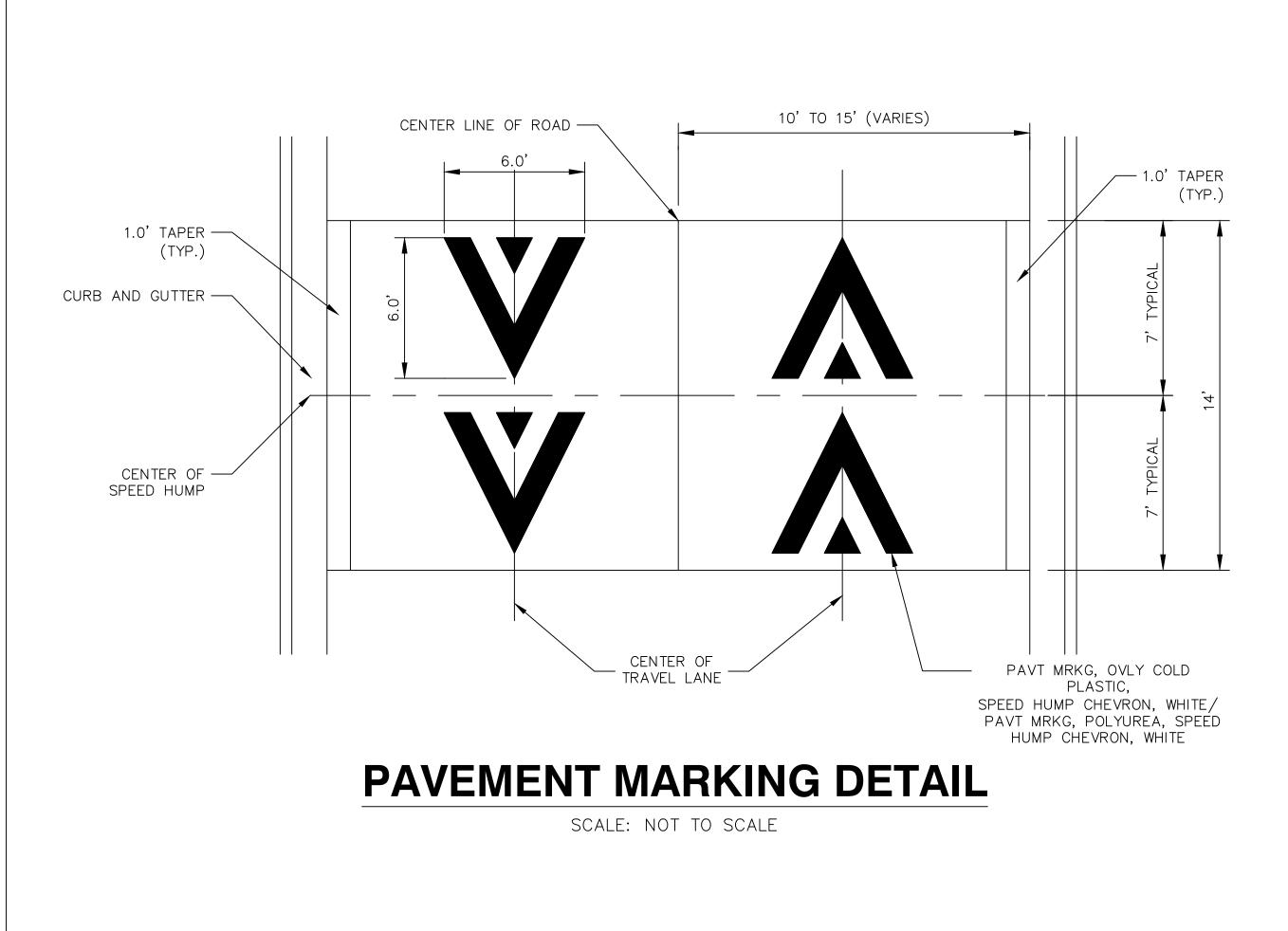


STREET RESURFACING PROJECT - 2021

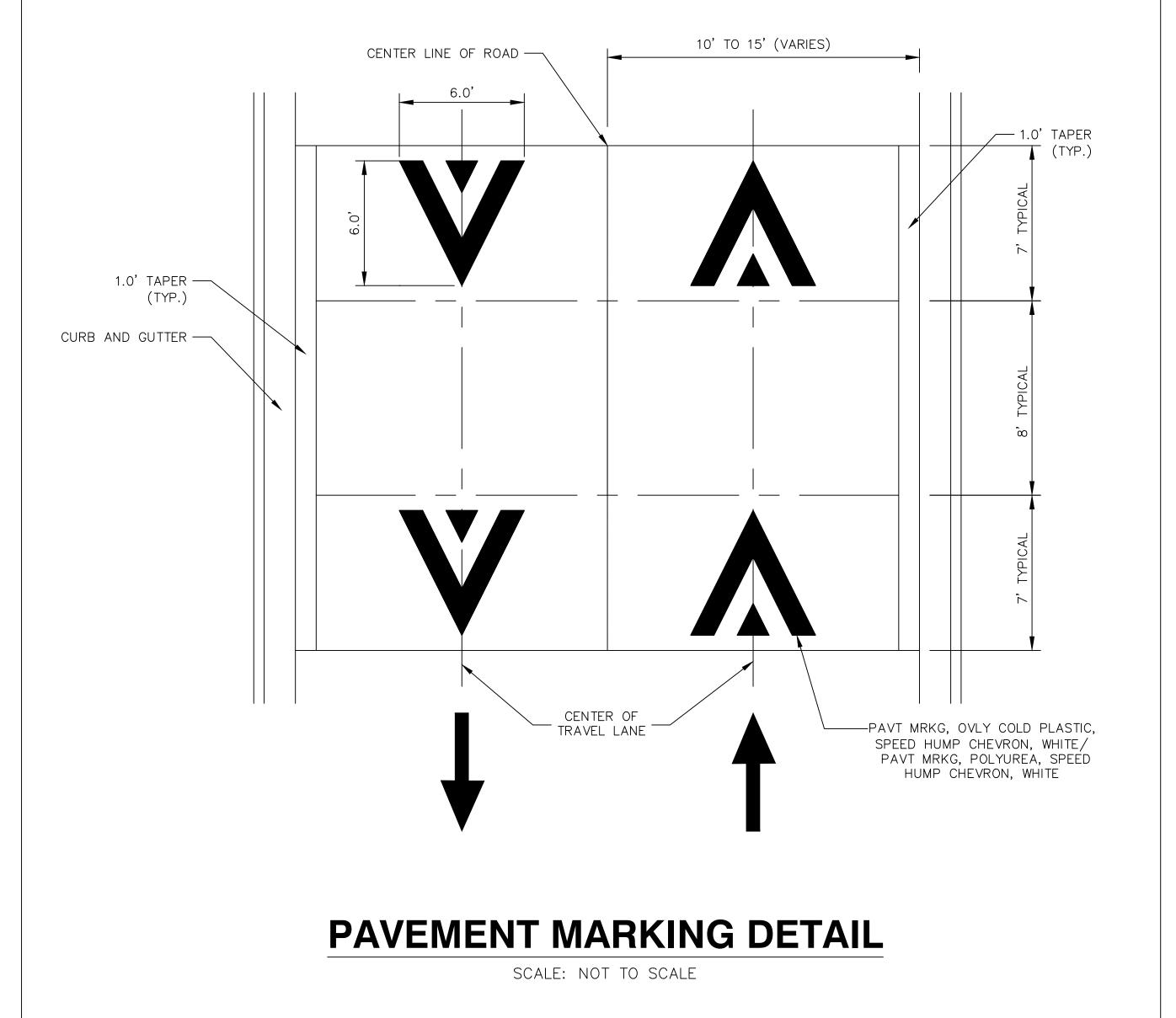
CITY OF ANN ARBOR - PUE







- 1. RAISED INTERSECTIONS SHALL FOLLOW THE SAME TAPER REQUIREMENT AS THE SPEED HUMPS DETAILED HEREIN.
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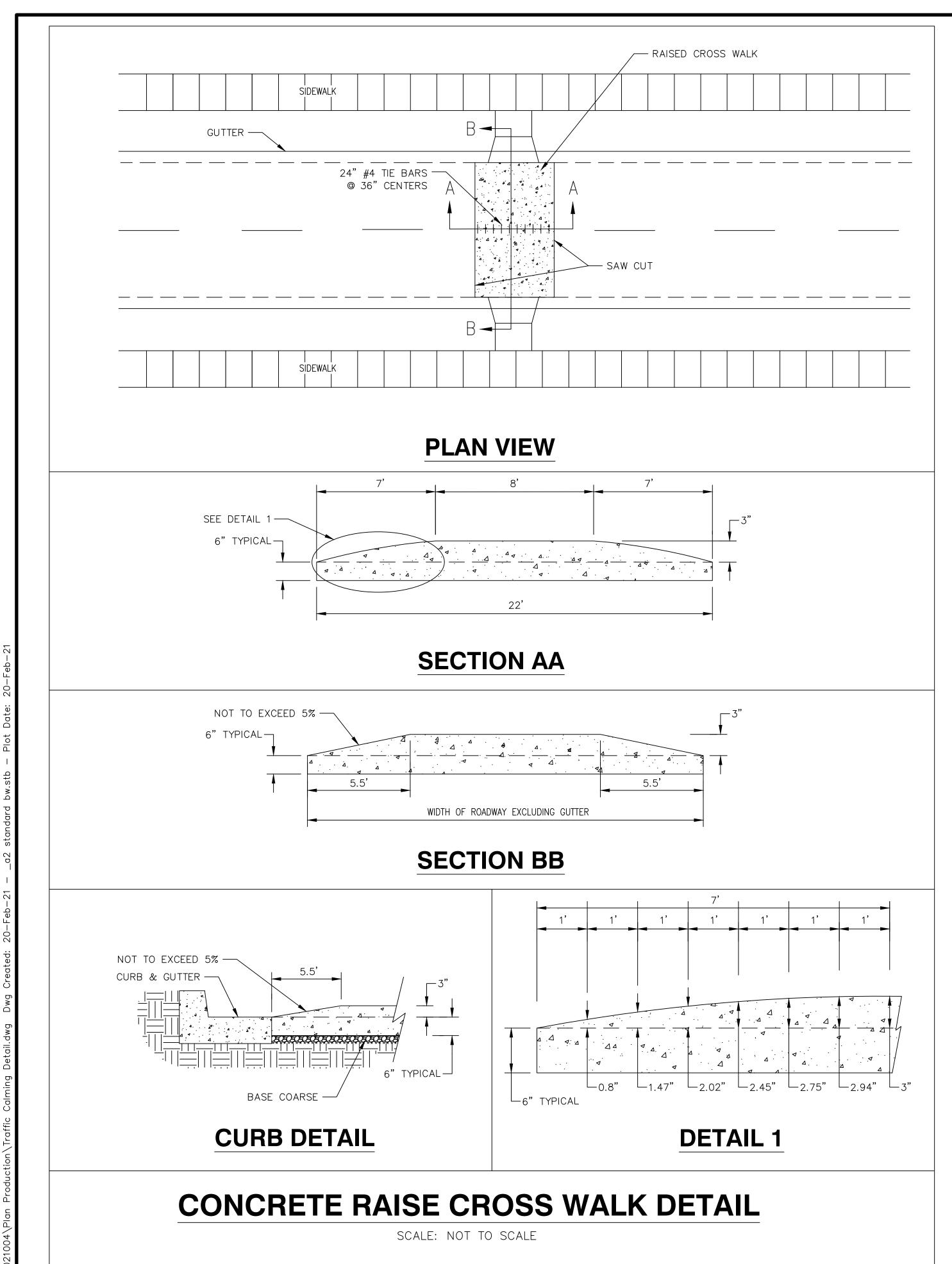


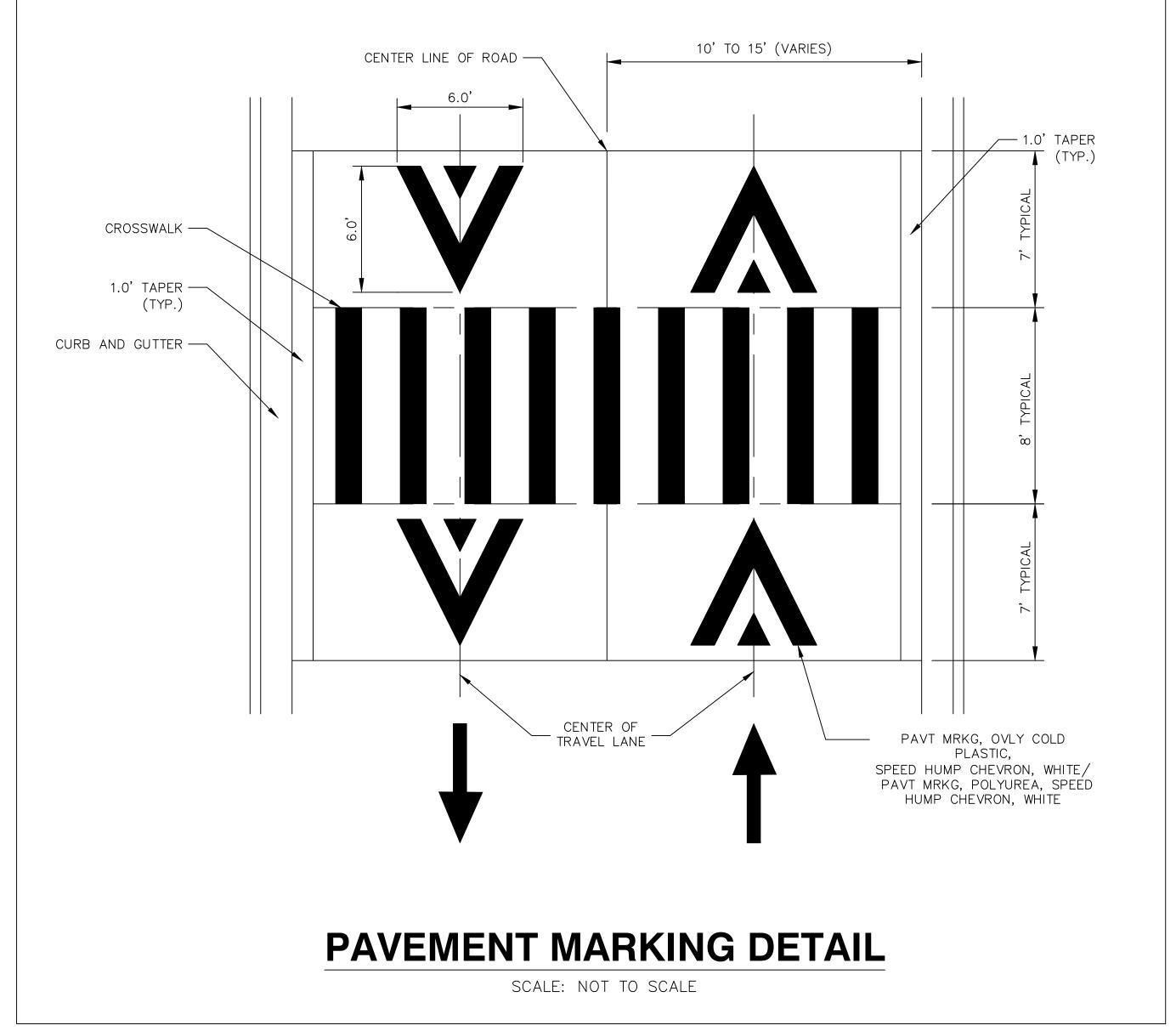
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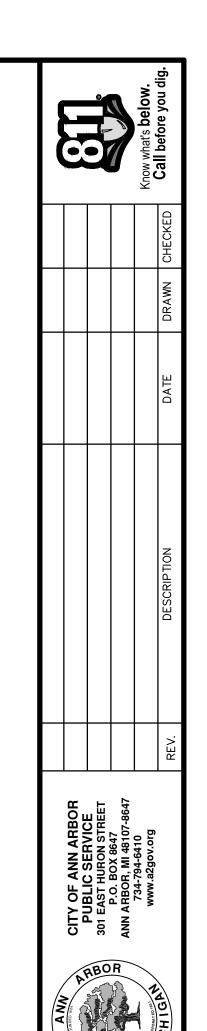


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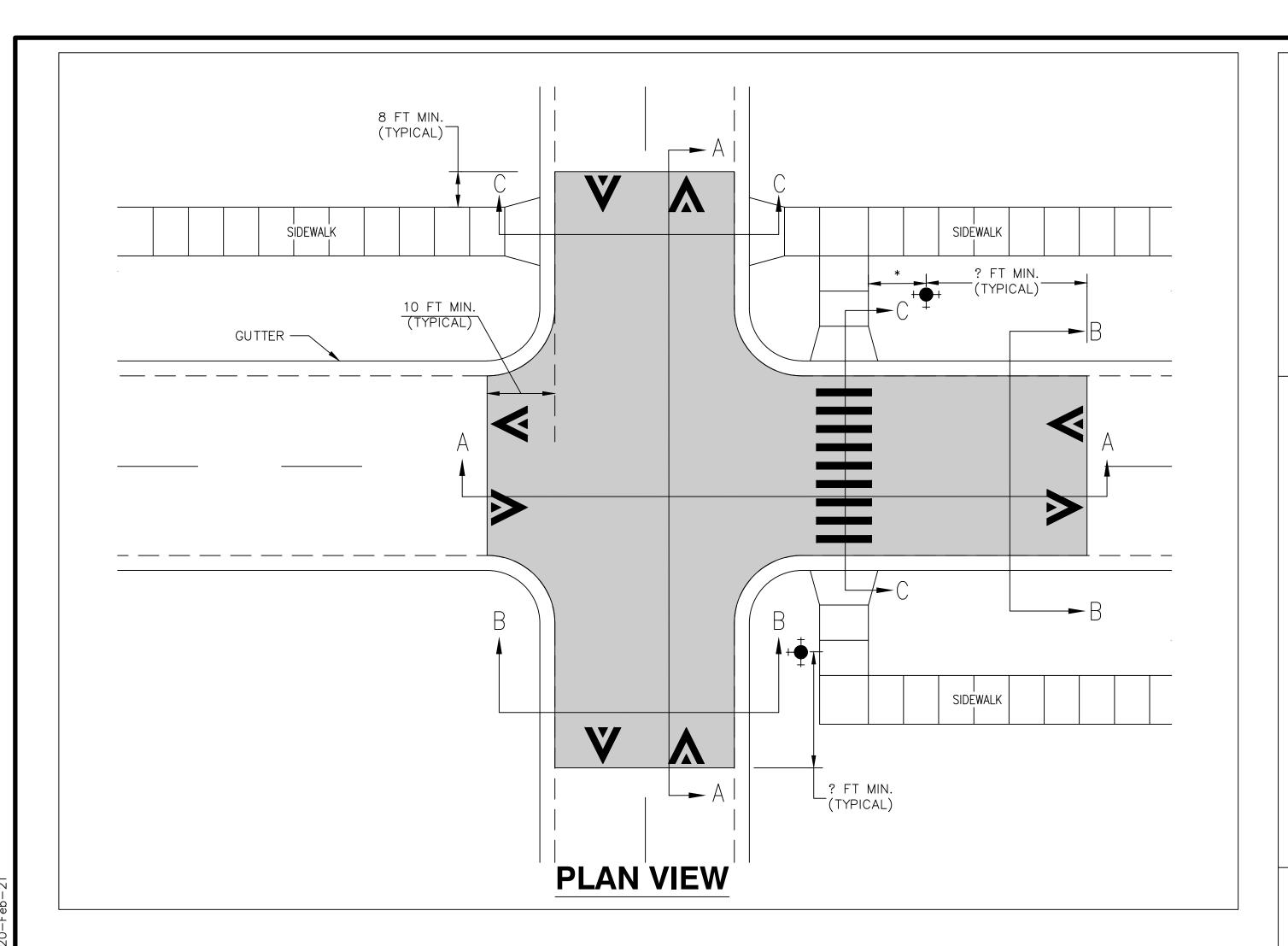


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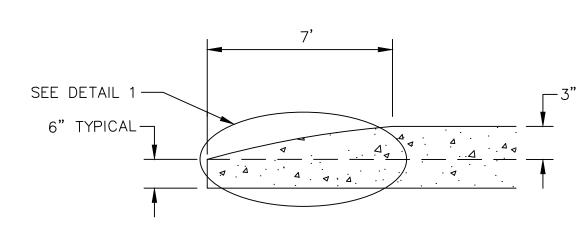




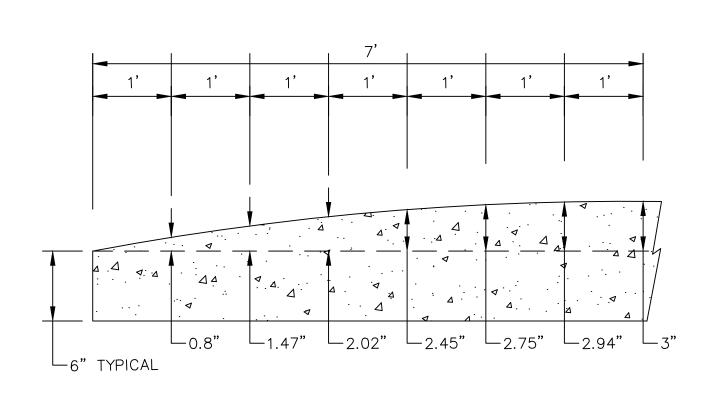
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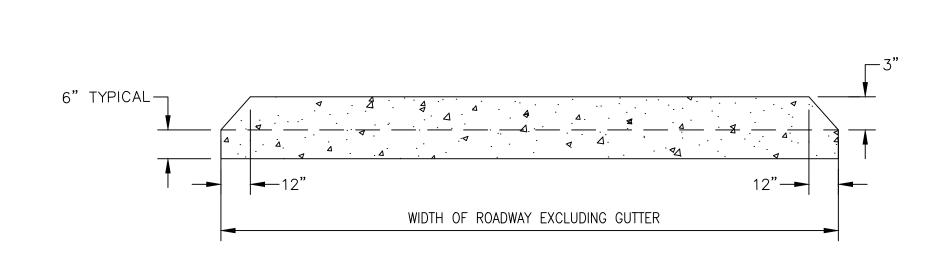
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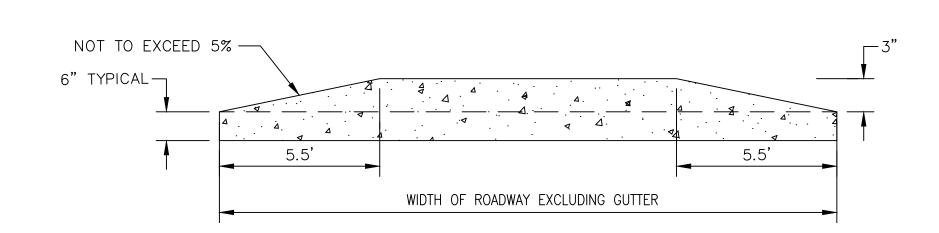
SECTION AA



DETAIL 1



SECTION BB

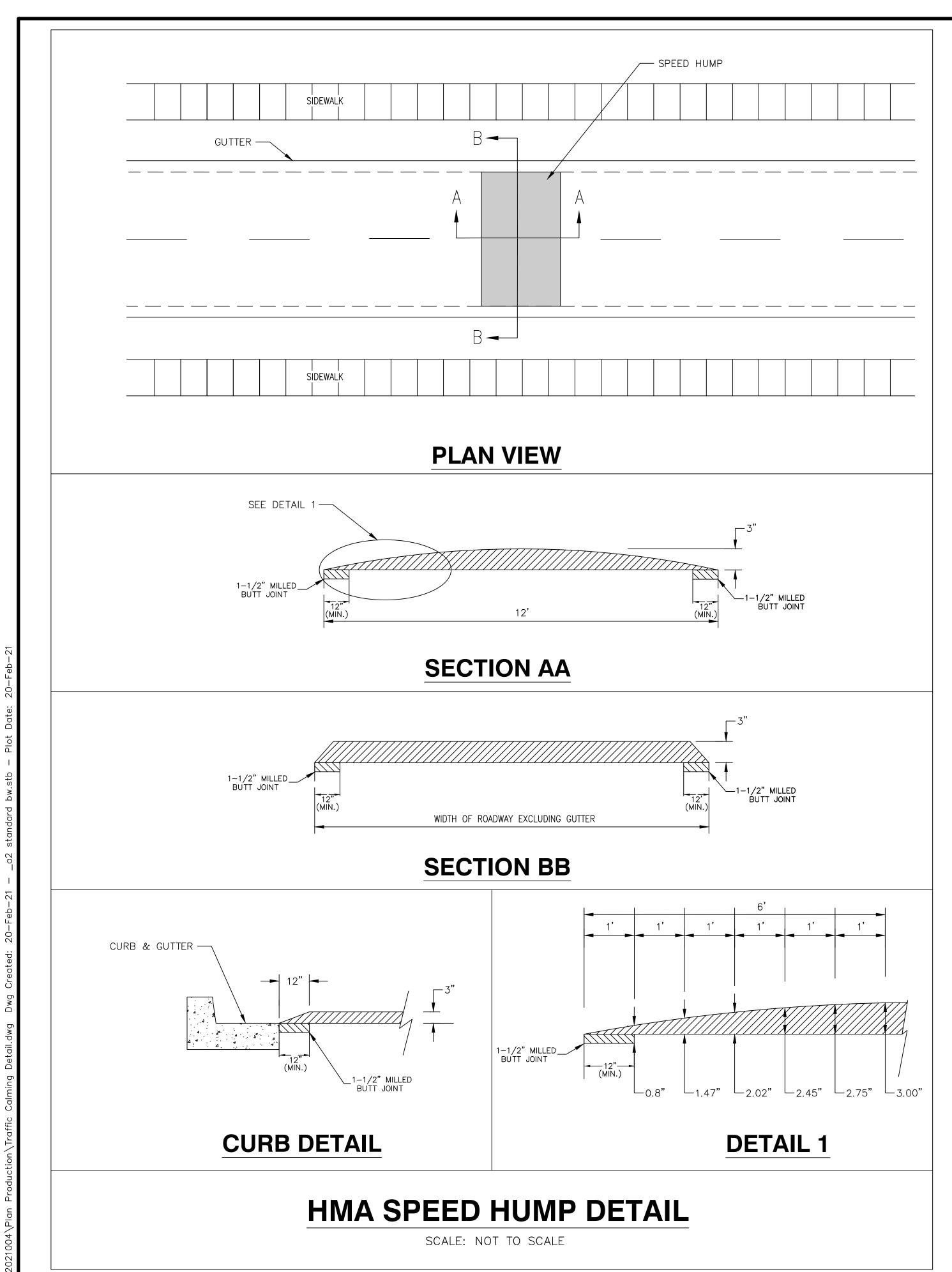


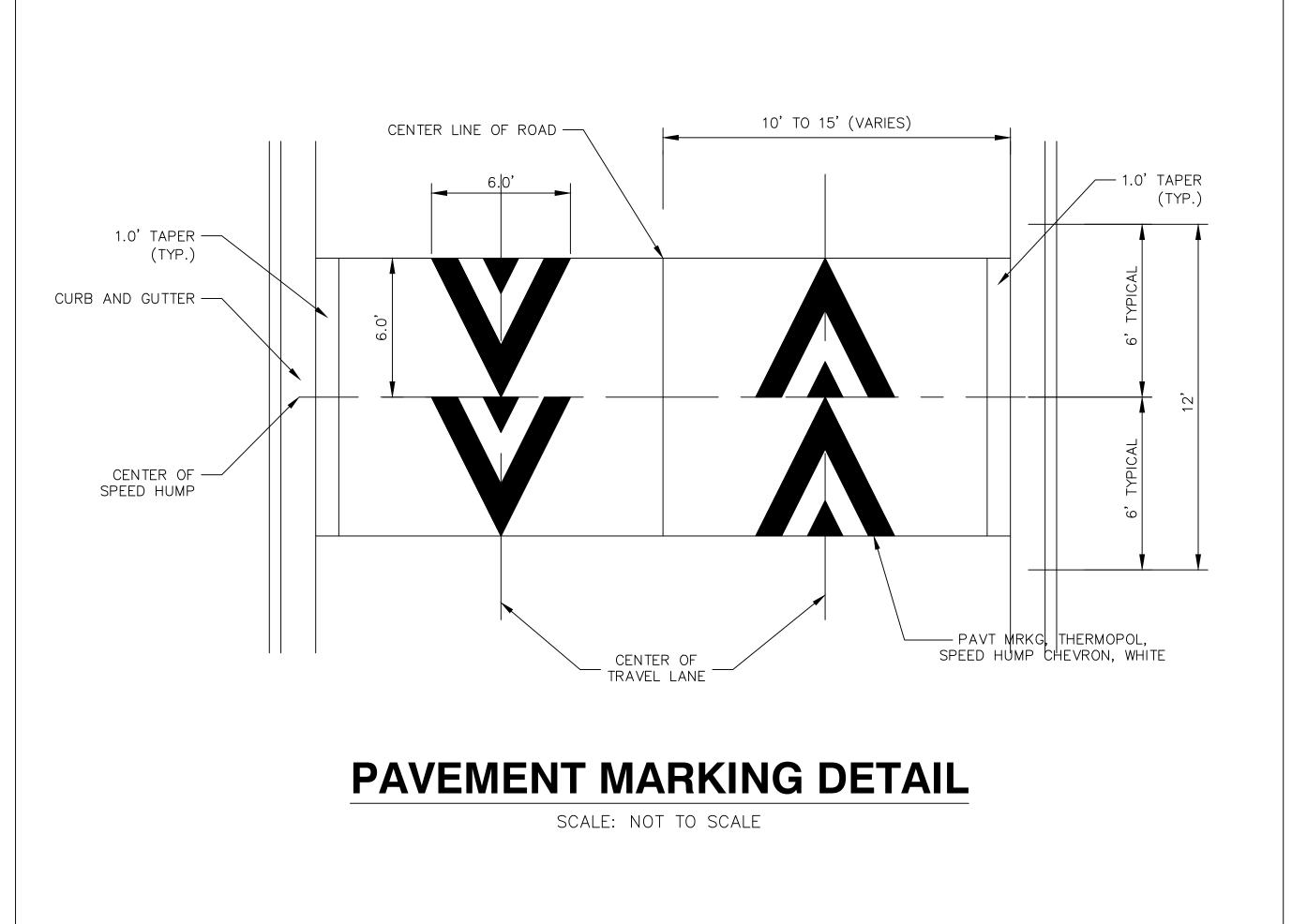
SECTION CC

CONCRETE RAISE INTERSECTION DETAIL

SCALE: NOT TO SCALE

2021

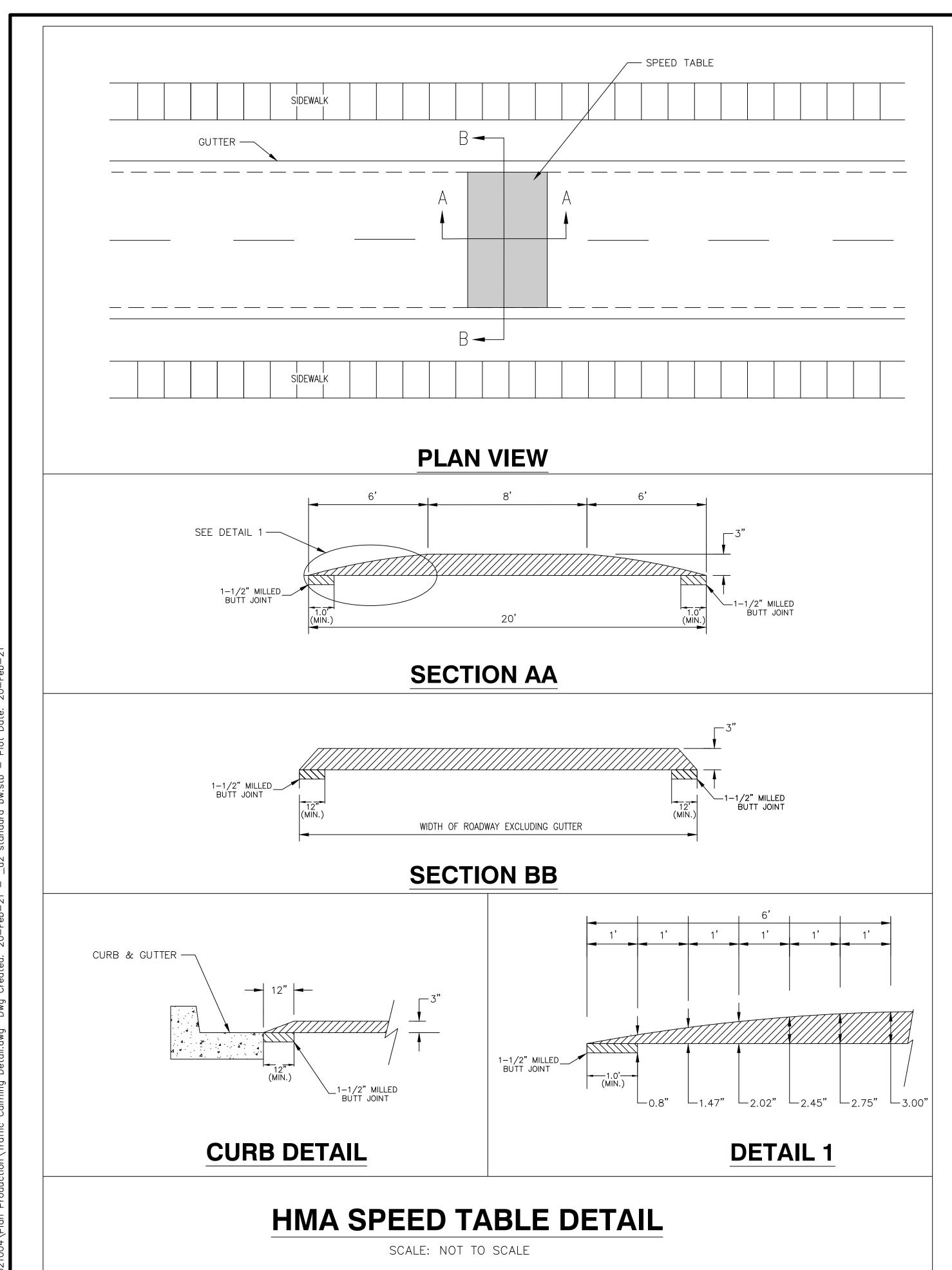


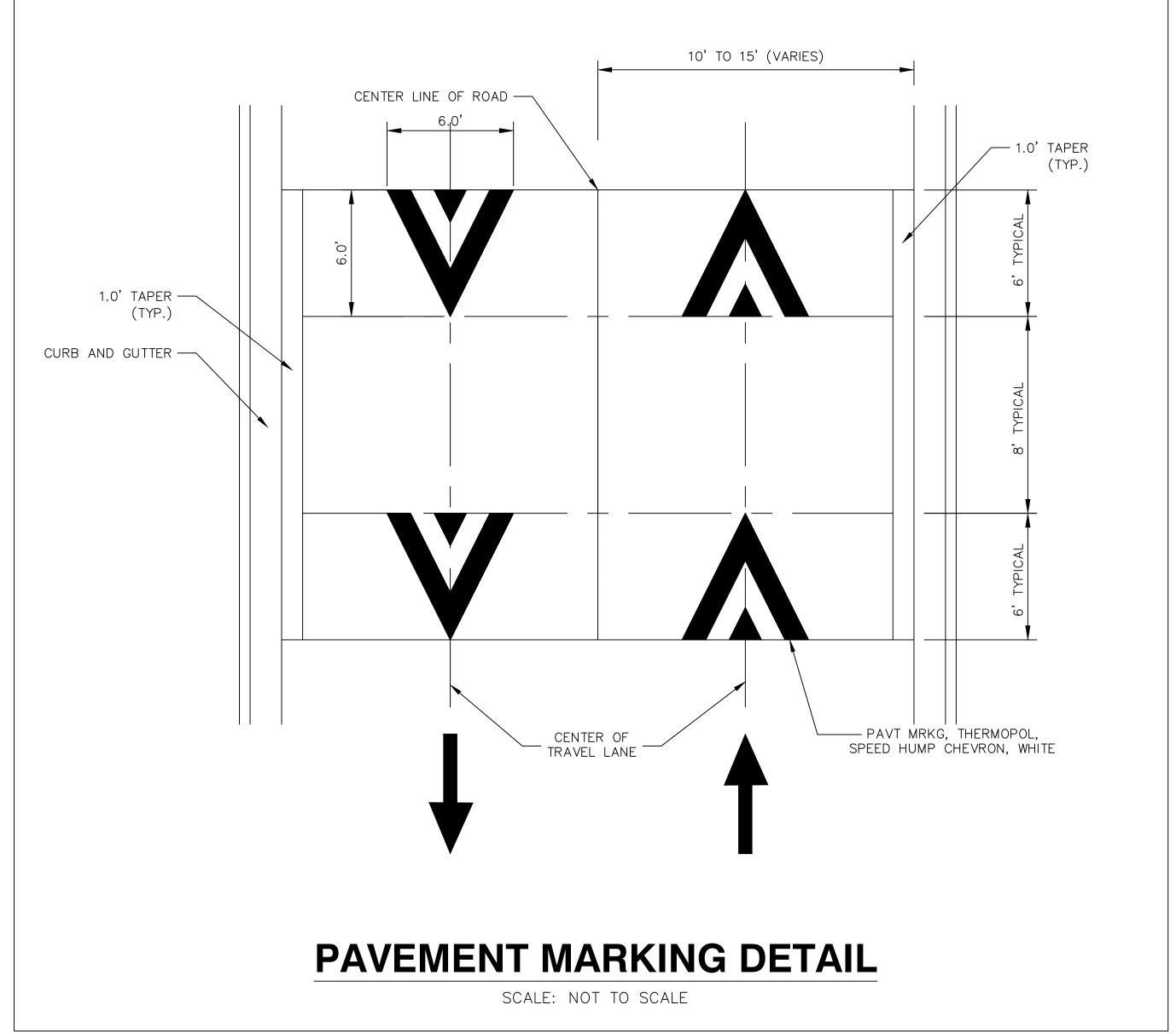


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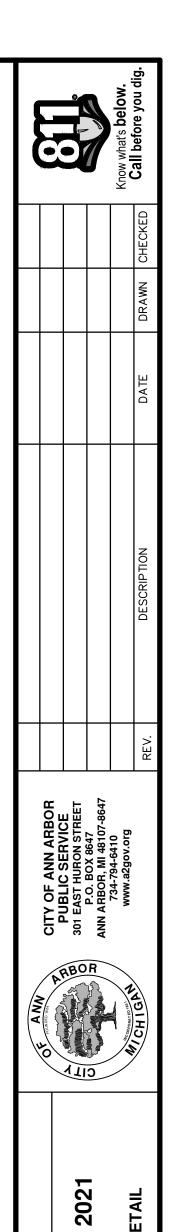
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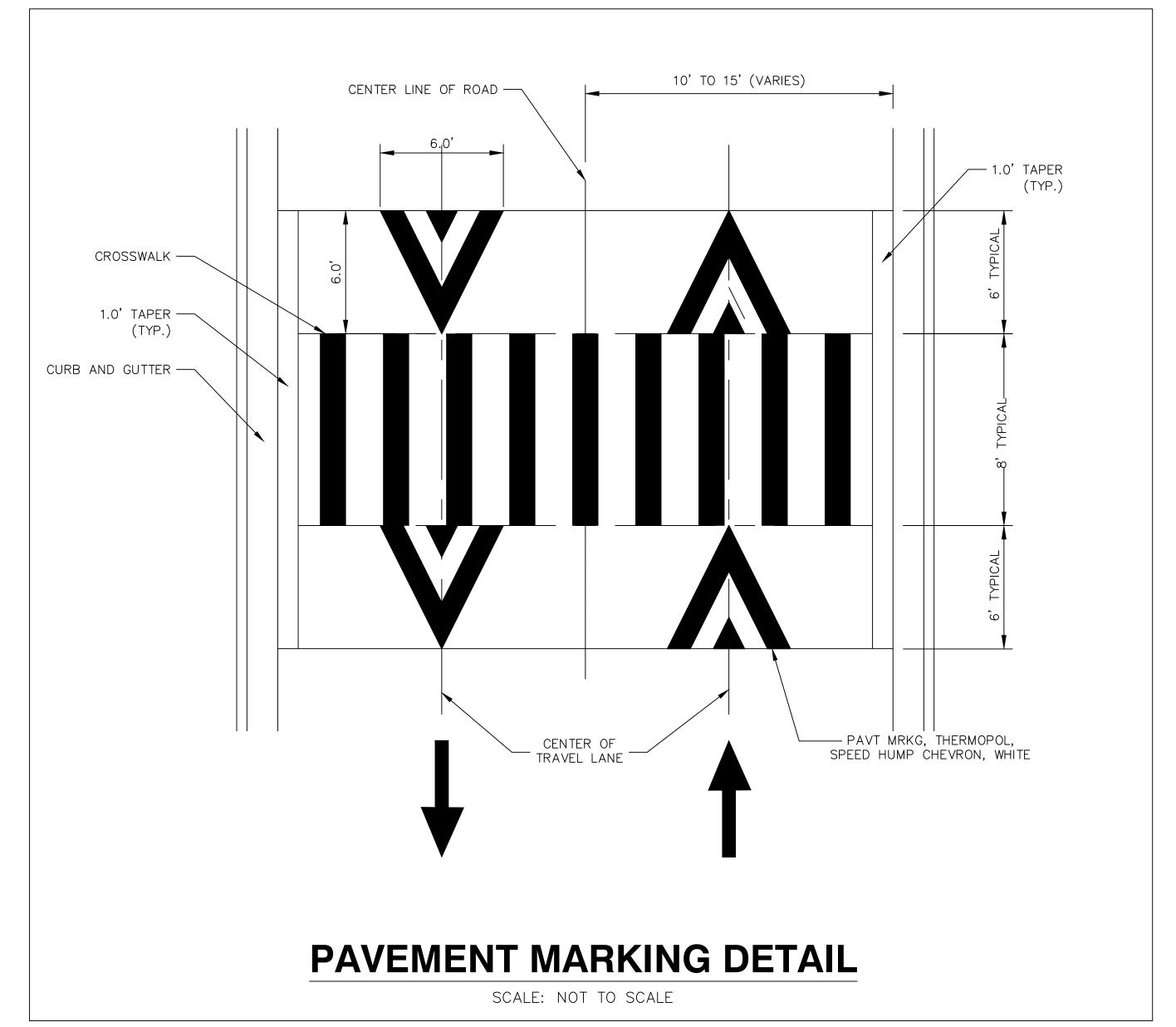
CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING



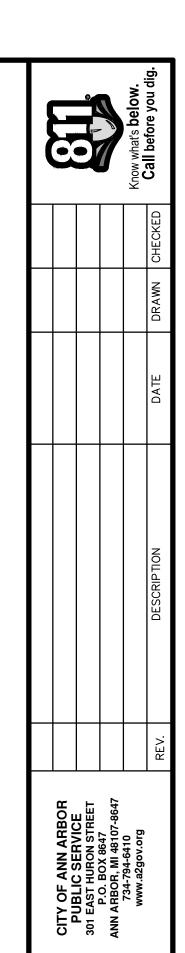


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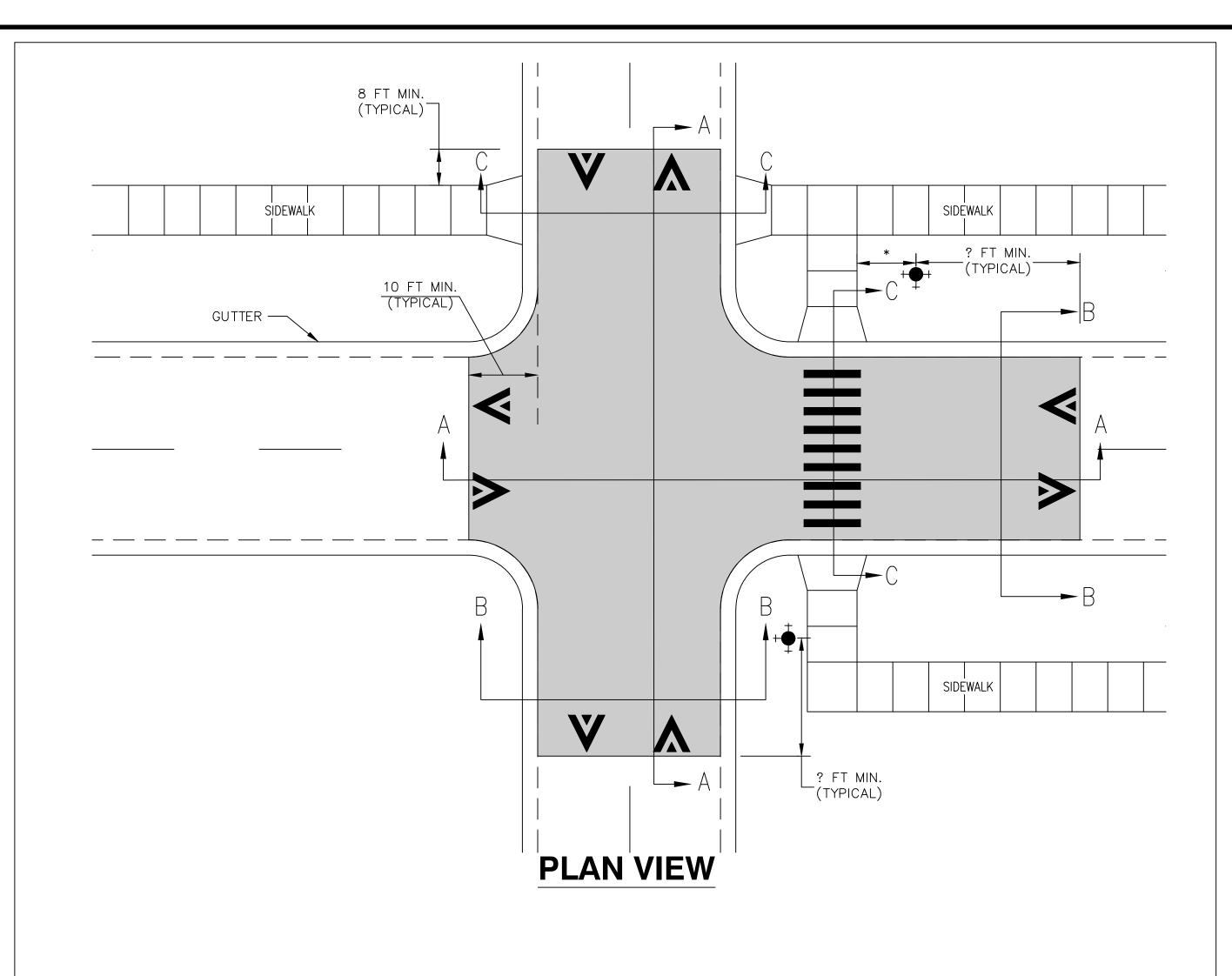


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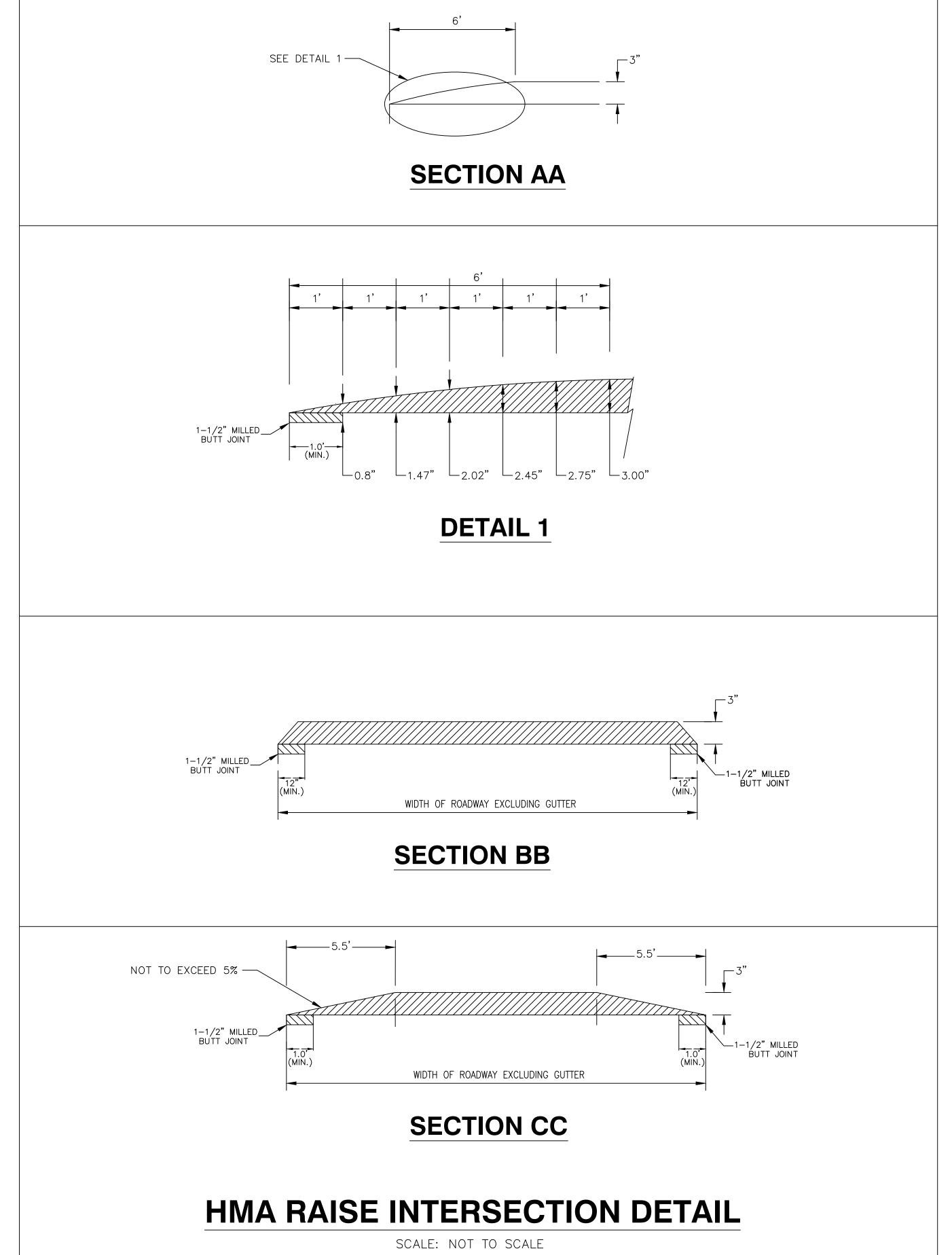




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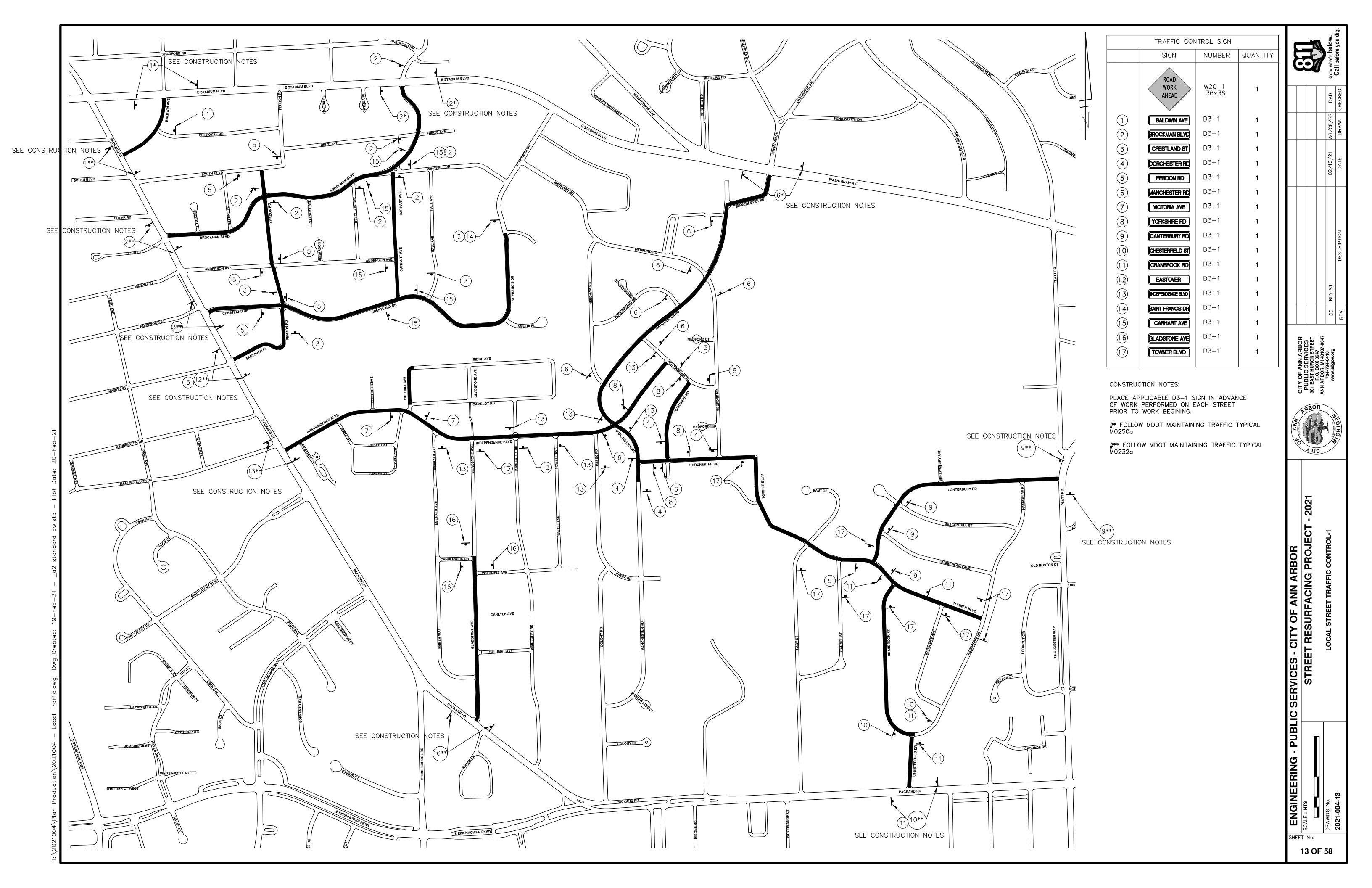
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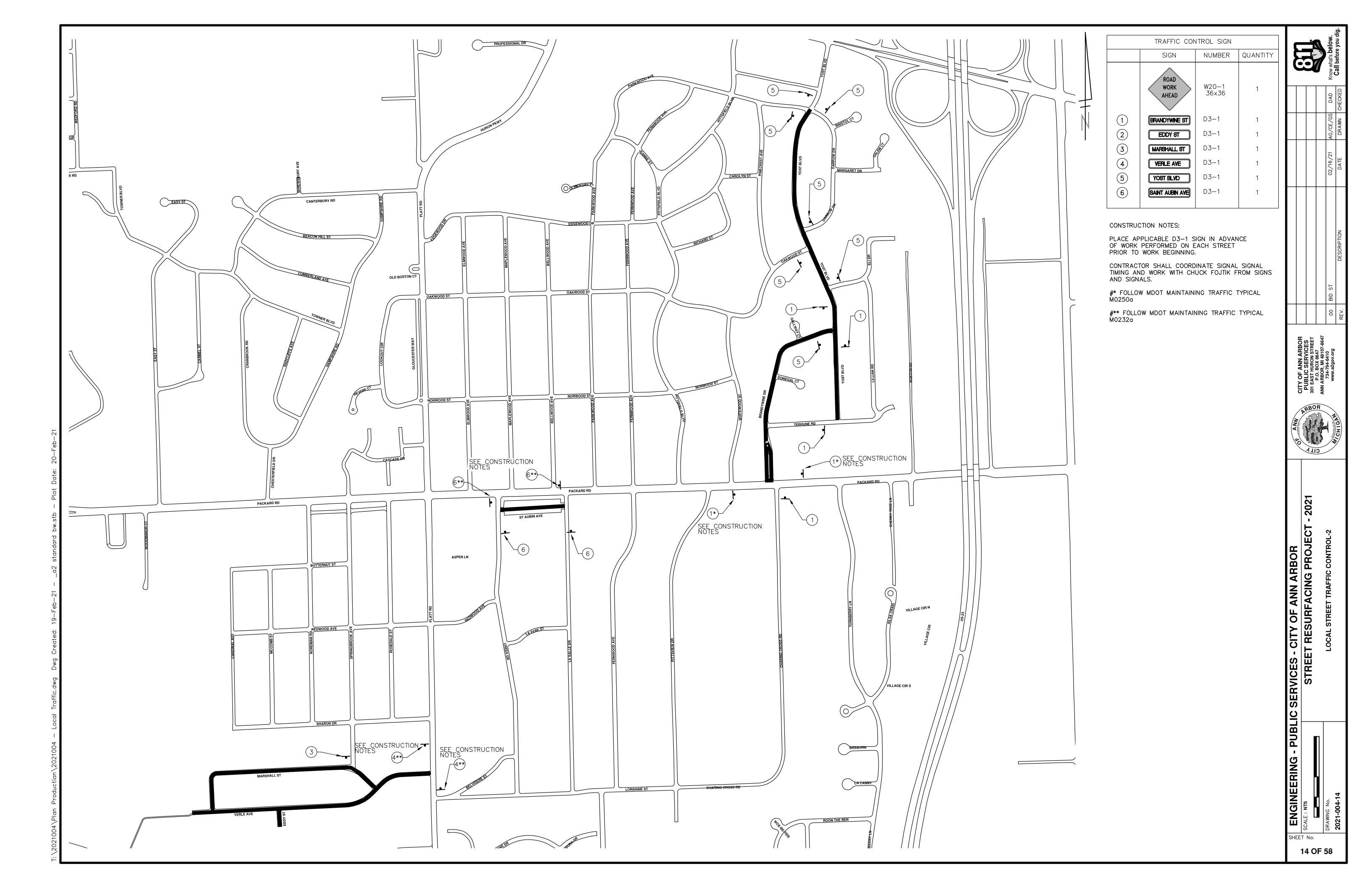
CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

SCALE PLAN: NTS

12 OF 58

T:\2021004\Plan Production\Traffic Calming Detail.dwg Dwg Created: 20—Feb—21 — _a2 standard bw.stb — Plot Dat







PROJECT LOCATION: PACKARD ST HMA PATH

ITB No. 4667 FILE No. 2021-004

I4am 0 = 1 -	Item Description	1114	Quantity
Item Code	_Curb, Gutter, and Curb and Gutter, Any Type, Rem	Unit	
2047001		Ft	118.000
2047011	_Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	Syd	82.000
2057011	_Grading, Driveway Approach	Syd	15.000
2057011	_Grading, Sidewalk	Syd	62.000
2057011	_Grading, Sidewalk Ramp	Syd	6.000
2057021	_Undercutting, Type IIA	Cyd	188.000
2080020	Erosion Control, Inlet Protection, Fabric Drop	Ea	21.000
2080036	Erosion Control, Silt Fence	Ft	324.000
3027011	_Aggregate Base, 6 inch, Modified	Syd	5,628.000
3057011	_Shared use Path, HMA Base Crushing and Shaping	Syd	2,630.000
5010005	HMA Surface, Rem	Syd	26.000
5010025	Hand Patching	Ton	5.000
8017011	_Driveway, Nonreinf Conc, 8 inch, Modified	Syd	15.000
8027001	_Curb and Gutter, Conc, Barrier	Ft	67.000
8027001	_Driveway Opening, Conc, Det M, Modified	Ft	22.000
8030030	Curb Ramp Opening, Conc	Ft	51.000
8037001	_Detectable Warning Surface, Modified	Ft	5.000
8037010	_Sidewalk Ramp, Conc, 6 inch, Modified	Sft	53.000
8037010	_Sidewalk, Conc, 4 inch, Modified	Sft	54.000
8037010	_Sidewalk, Conc, 6 inch, Modified	Sft	500.000
8060040	Shared use Path, HMA	Ton	1,138.000
8067011	_Shared use Path, Grading, Modified	Syd	26.000
8120035	Channelizing Device, 42 inch, Fluorescent, Furn	Ea	68.000
8120036	Channelizing Device, 42 inch, Fluorescent, Oper	Ea	68.000
8120140	Lighted Arrow, Type C, Furn	Ea	2.000
8120141	Lighted Arrow, Type C, Oper	Ea	2.000
8120252	Plastic Drum, Fluorescent, Furn	Ea	2.000
8120253	Plastic Drum, Fluorescent, Oper	Ea	2.000
8120330	Sign, Portable, Changeable Message, Furn	Ea	4.000
8120331	Sign, Portable, Changeable Message, Oper	Ea	4.000
8120350	Sign, Type B, Temp, Prismatic, Furn	Sft	316.000
8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	316.000
8120352	Sign, Type B, Temp, Prismatic, Special, Furn	Sft	40.000
8120353	Sign, Type B, Temp, Prismatic, Special, Oper	Sft	40.000
8127050	_Pedestrian Type II Barricade, Temp	Ea	8.000
8167011	Slope Restoration	Syd	2,501.000
8190244	Hh, Adj	Ea	1.000
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)	
10.0	*D3-1	Street Name Sign	4.000	40.000	
4.0	G20-2	End Road Work	4.500	18.000	
2.0	W1-4L	Reverse Curve (Left)	9.000	18.000	
2.0	W1-4L	Reverse Curve (Right)	9.000	18.000	
2.0	W1-6L	Shift arrow Left	9.000	18.000	
2.0	W1-6R	Shift arrow Right	9.000	18.000	
5.0	W3-5B	Reduce Speed Zone	9.000	45.000	
5.0	W20-1	Road Work Ahead Sign	9.000	45.000	
1.0	W20-5A	Center Lane Closed Ahead	9.000	9.000	
1.0	W20-5R	Right Lane Closed Ahead	9.000	9.000	
5.0	R2-1	Speed Limit	7.500	38.000	
5.0	R5-18C	Work Zone Begins	16.000	80.000	
			TOTAL	356.000	

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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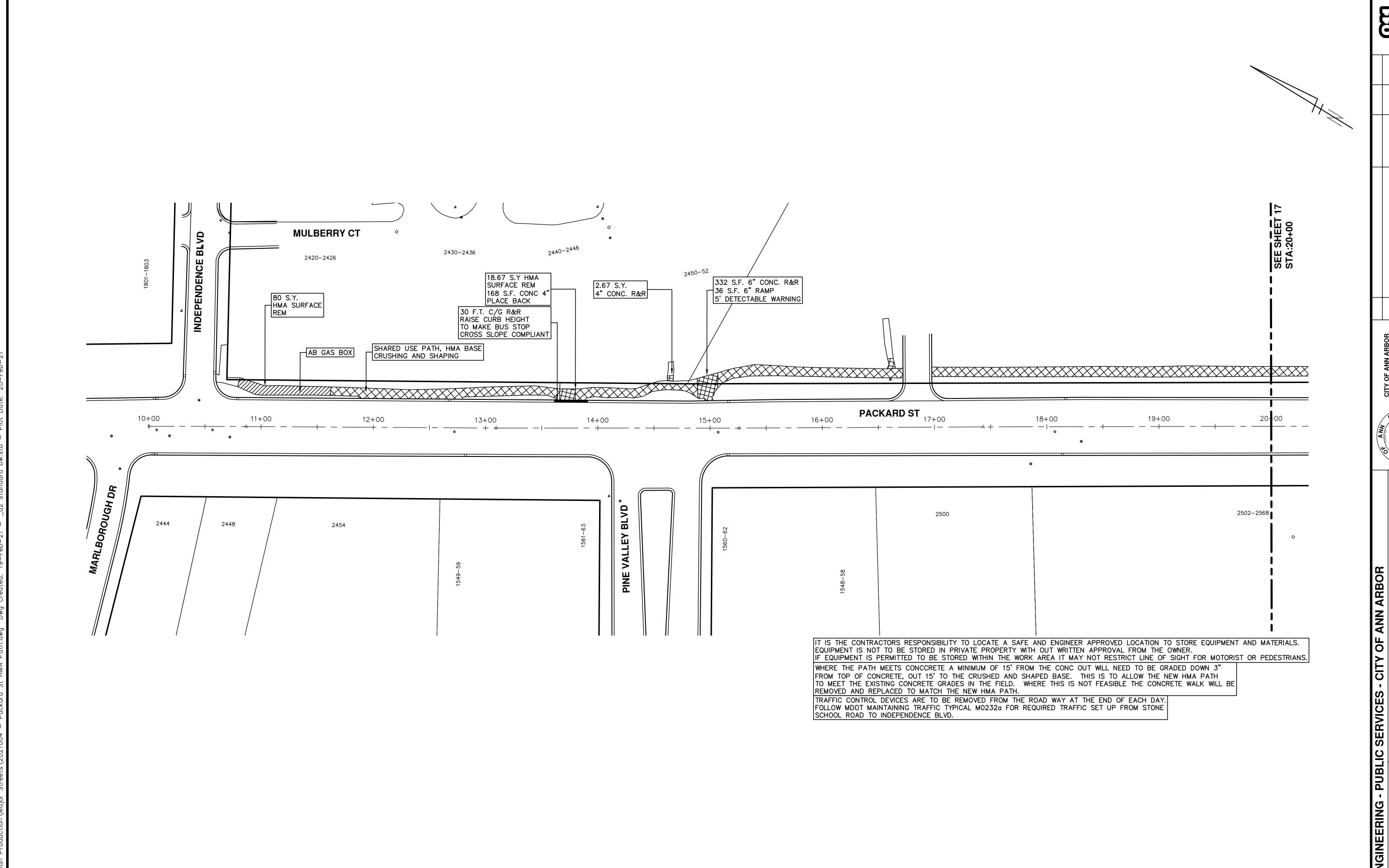


ENGINEERING

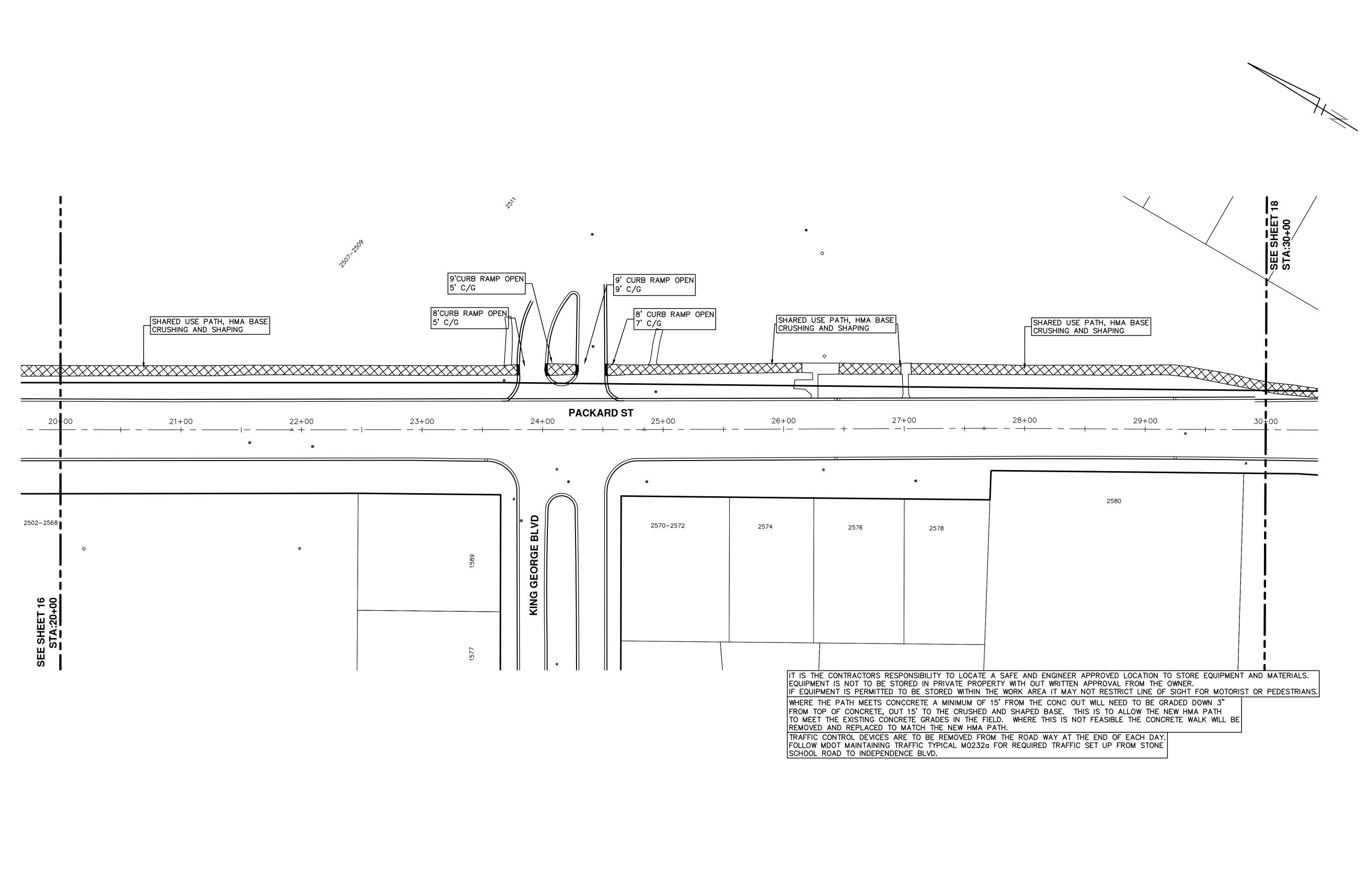
CITY OF ANN ARBOR PUBLIC SERVICES 301 EAST HURON STREET, P.O. BOX 8647 ANN ARBOR, MICHIGAN 48107-8647 734-794-6410 www.a2gov.org

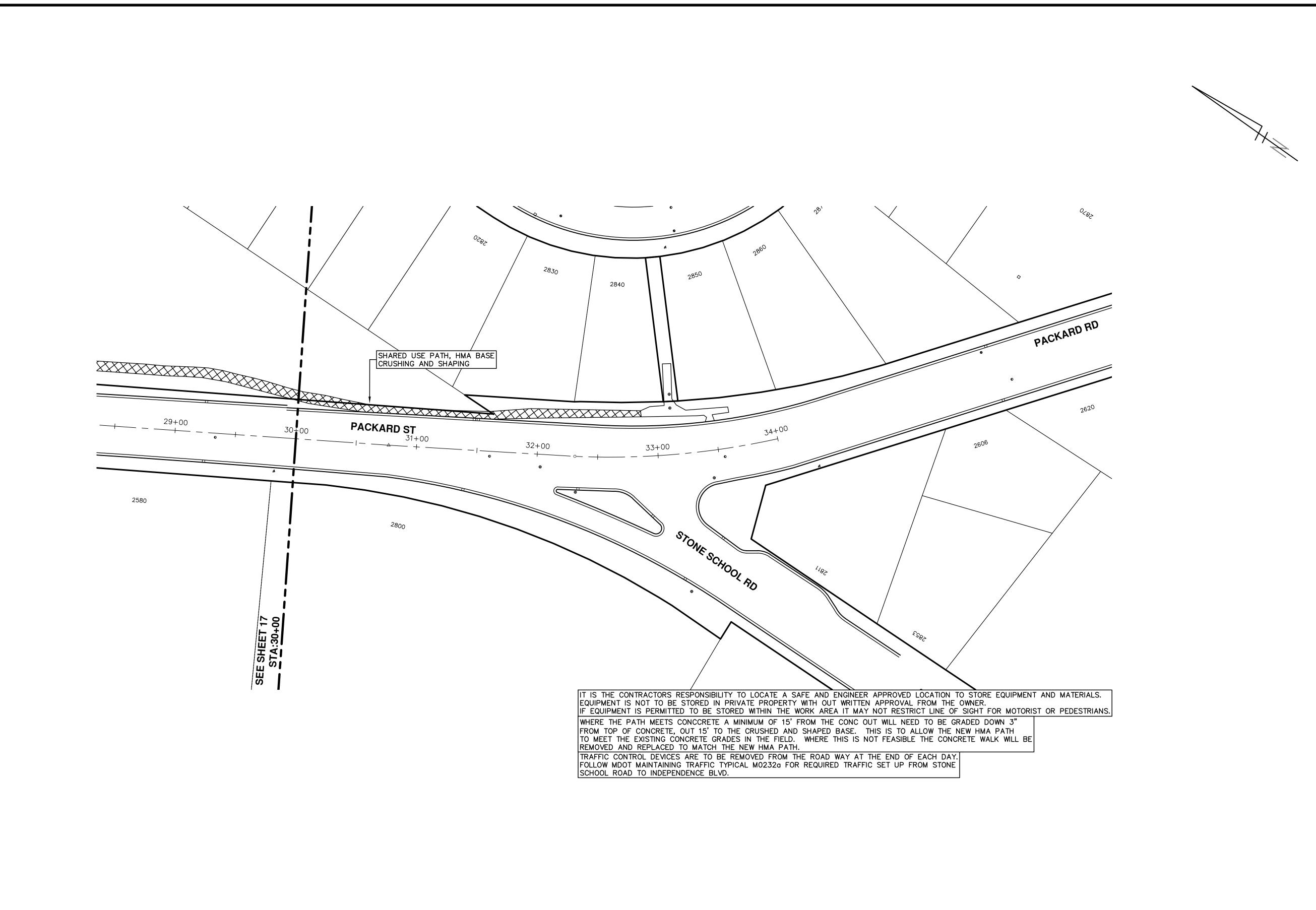


SHEET No.



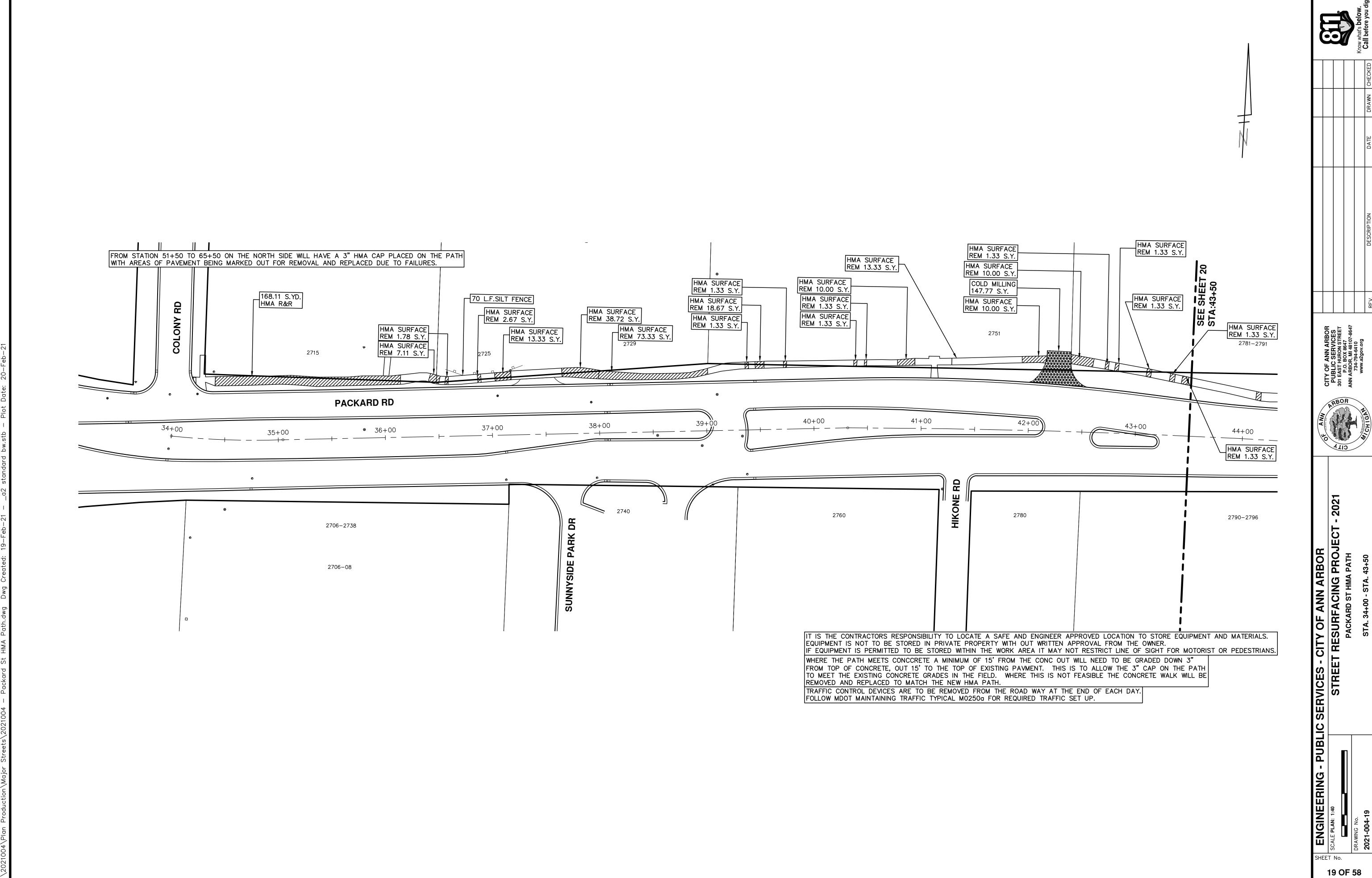
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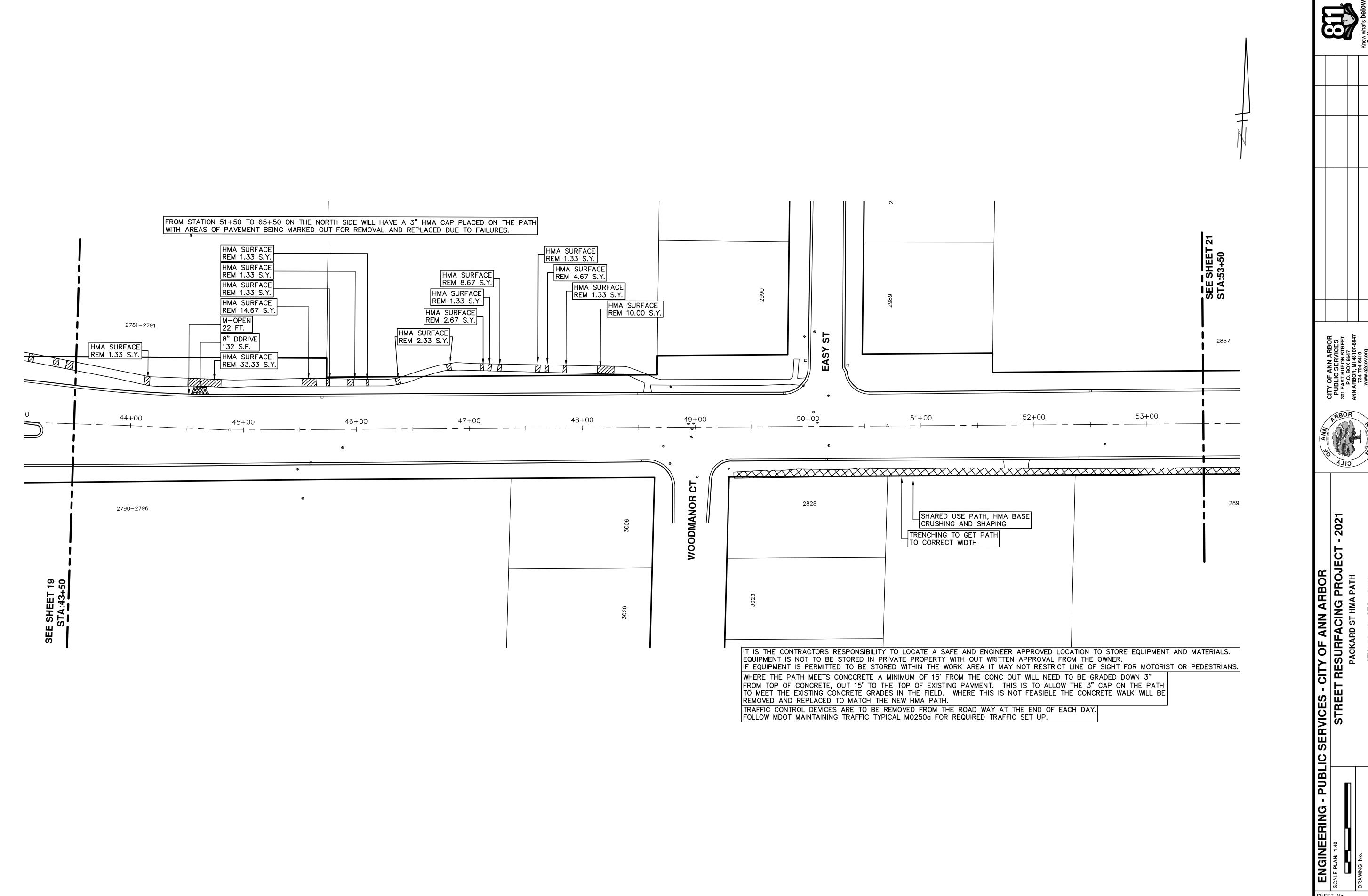


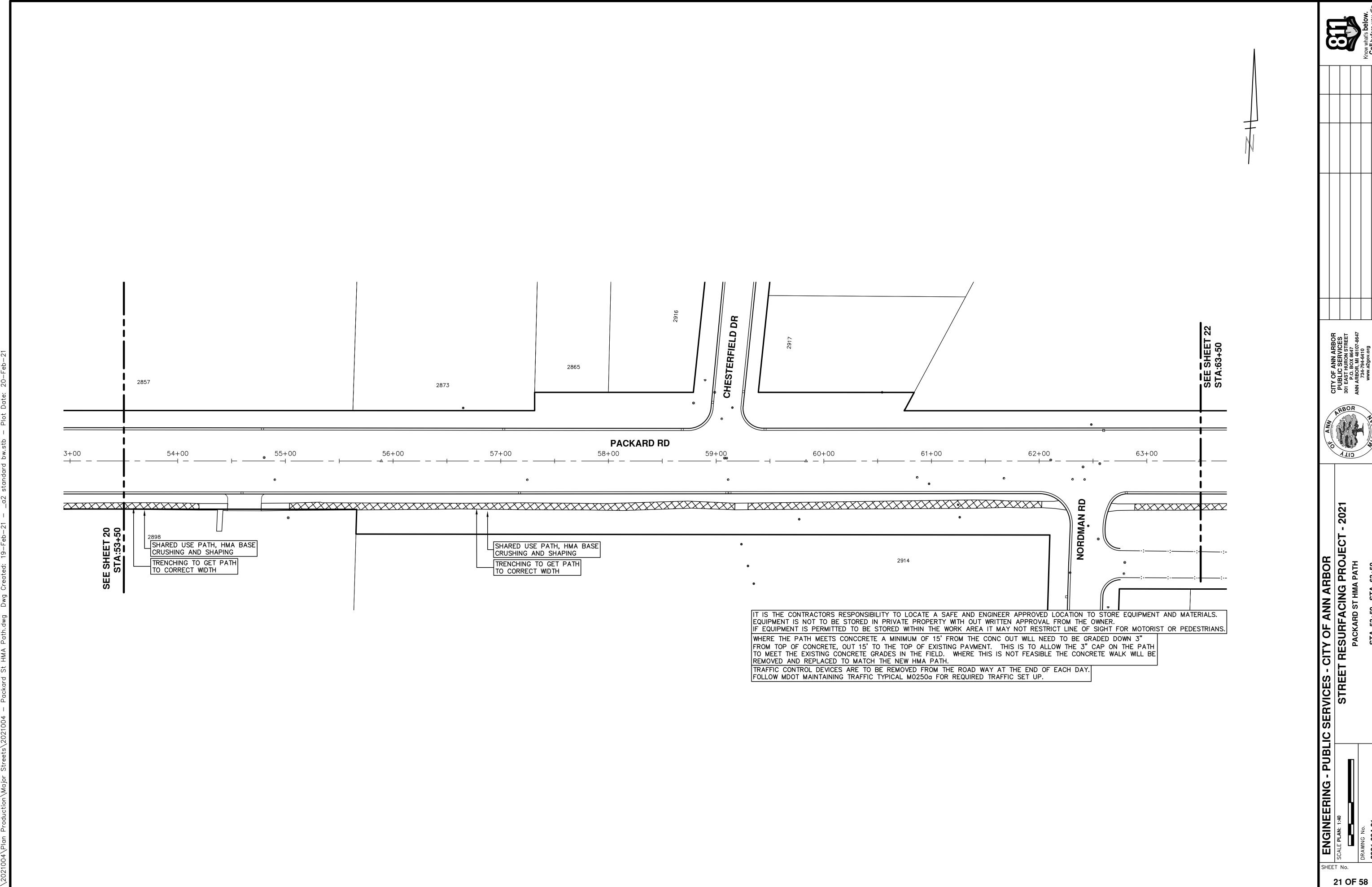


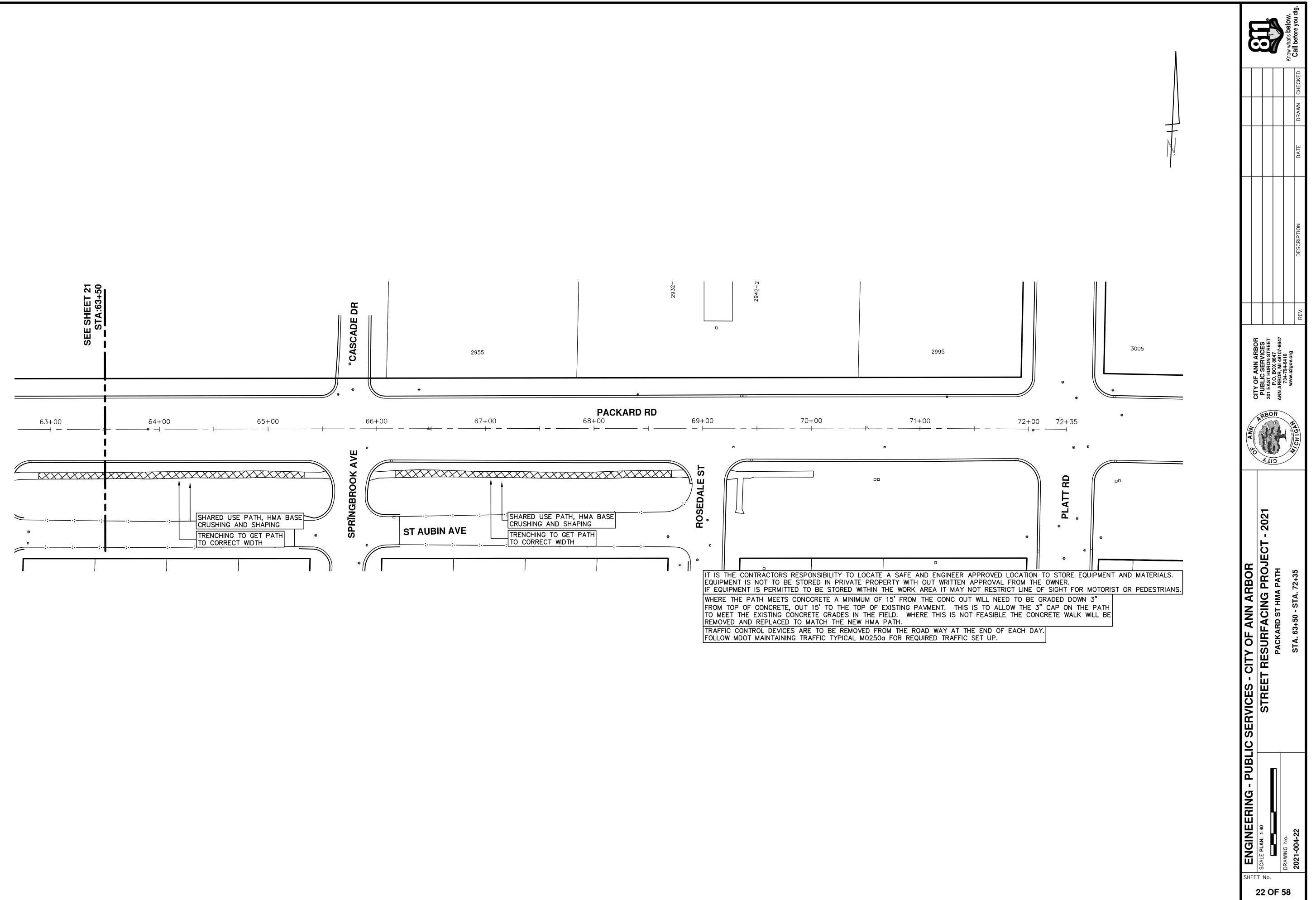


SHEET No.











PROJECT LOCATION: HURON PKWY APPROACH TO LINDSAY LANE

ITB No. 4667 FILE No. 2021-004

QUANTITIES				
Item Code	Item Description	Unit	Quantity	
2047001	_Curb, Gutter, and Curb and Gutter, Any Type, Rem	Ft	60.00	
2057011	_Machine Grading, Special	Syd	237.000	
2057021	_Undercutting, Type IIA	Cyd	8.00	
2080020	Erosion Control, Inlet Protection, Fabric Drop	Ea	2.00	
5010002	Cold Milling HMA Surface	Syd	237.00	
5010005	HMA Surface, Rem	Syd	7.00	
5010025	Hand Patching	Ton	1.00	
5010703	HMA, LVSP	Ton	55.00	
6027021	_Flowable Fill	Cyd	1.00	
8027001	_Driveway Opening, Conc, Det M, Modified	Ft	60.00	
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	
8120035	Channelizing Device, 42 inch, Fluorescent, Furn	Ea	28.00	
8120036	Channelizing Device, 42 inch, Fluorescent, Oper	Ea	28.00	
8120140	Lighted Arrow, Type C, Furn	Ea	1.00	
8120141	Lighted Arrow, Type C, Oper	Ea	1.00	
8120252	Plastic Drum, Fluorescent, Furn	Ea	3.00	
8120253	Plastic Drum, Fluorescent, Oper	Ea	3.00	
8120330	Sign, Portable, Changeable Message, Furn	Ea	2.00	
8120331	Sign, Portable, Changeable Message, Oper	Ea	2.00	
8120350	Sign, Type B, Temp, Prismatic, Furn	Sft	110.00	
8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	110.00	
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	5.00	
8167011	_Slope Restoration	Syd	3.00	
8190244	Hh, Adj	Ea	1.00	

	QUANTITIES				
Sign, Type B, Temp, Prismatic & *Sign, Type B, Temp, Prismatic, Special					
Quantity Sign Code Description				Total Area (Sft)	
2.0	*D3-1	Street Name Sign	4.000	8.000	
2.0	G20-2	End Road Work	4.500	9.000	
2.0	W3-5B	Reduce Speed Zone	9.000	18.000	
1.0	W4-2R	Lane Ends / Right	9.000	9.000	
2.0	W20-1	Road Work Ahead Sign	9.000	18.000	
1.0	W20-5R	Right Lane Closed Ahead	9.000	9.000	
2.0	R2-1	Speed Limit	7.500	15.000	
2.0	R5-18C	Work Zone Begins	16.000	32.000	
			TOTAL	118.000	

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:

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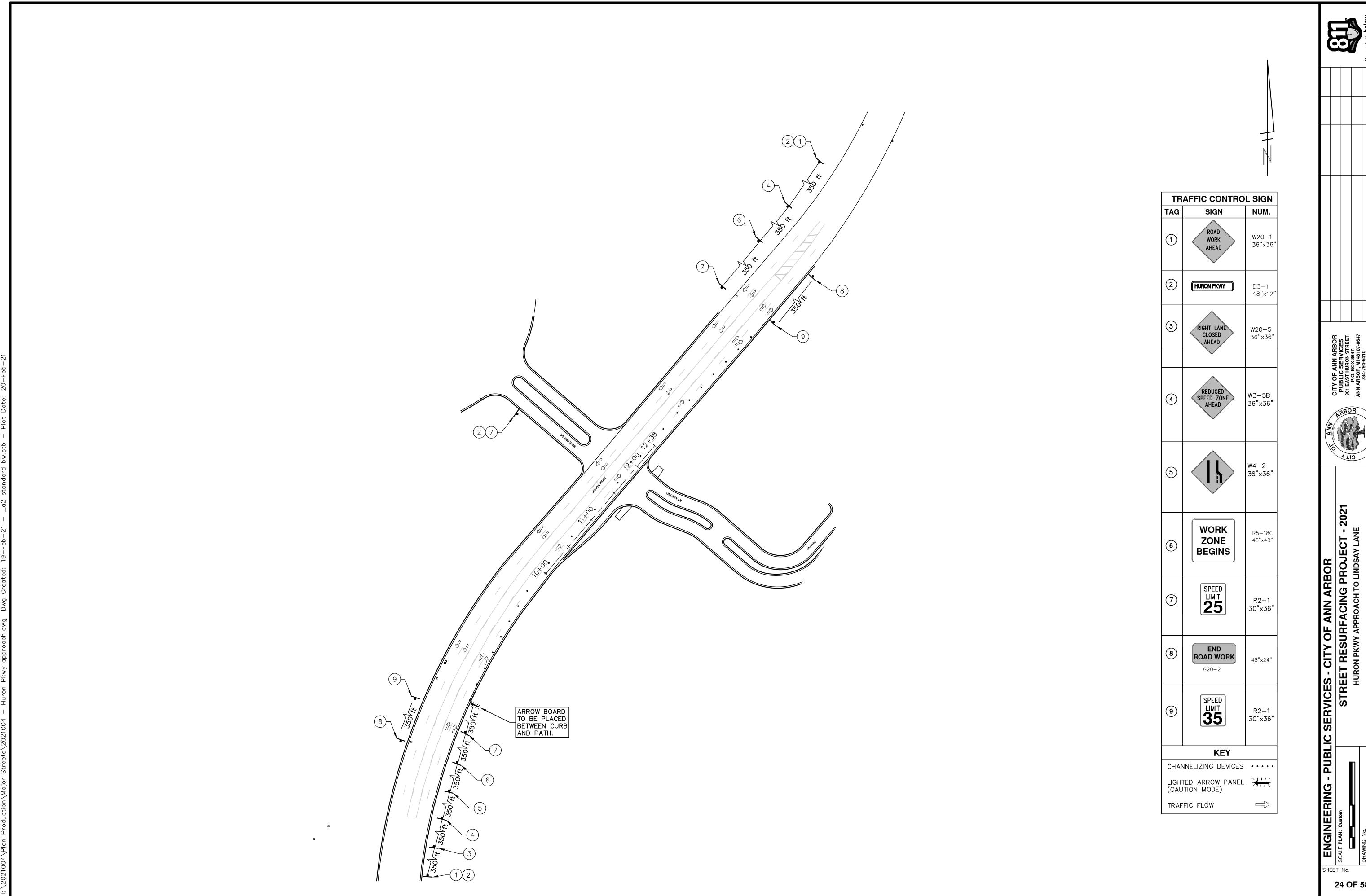


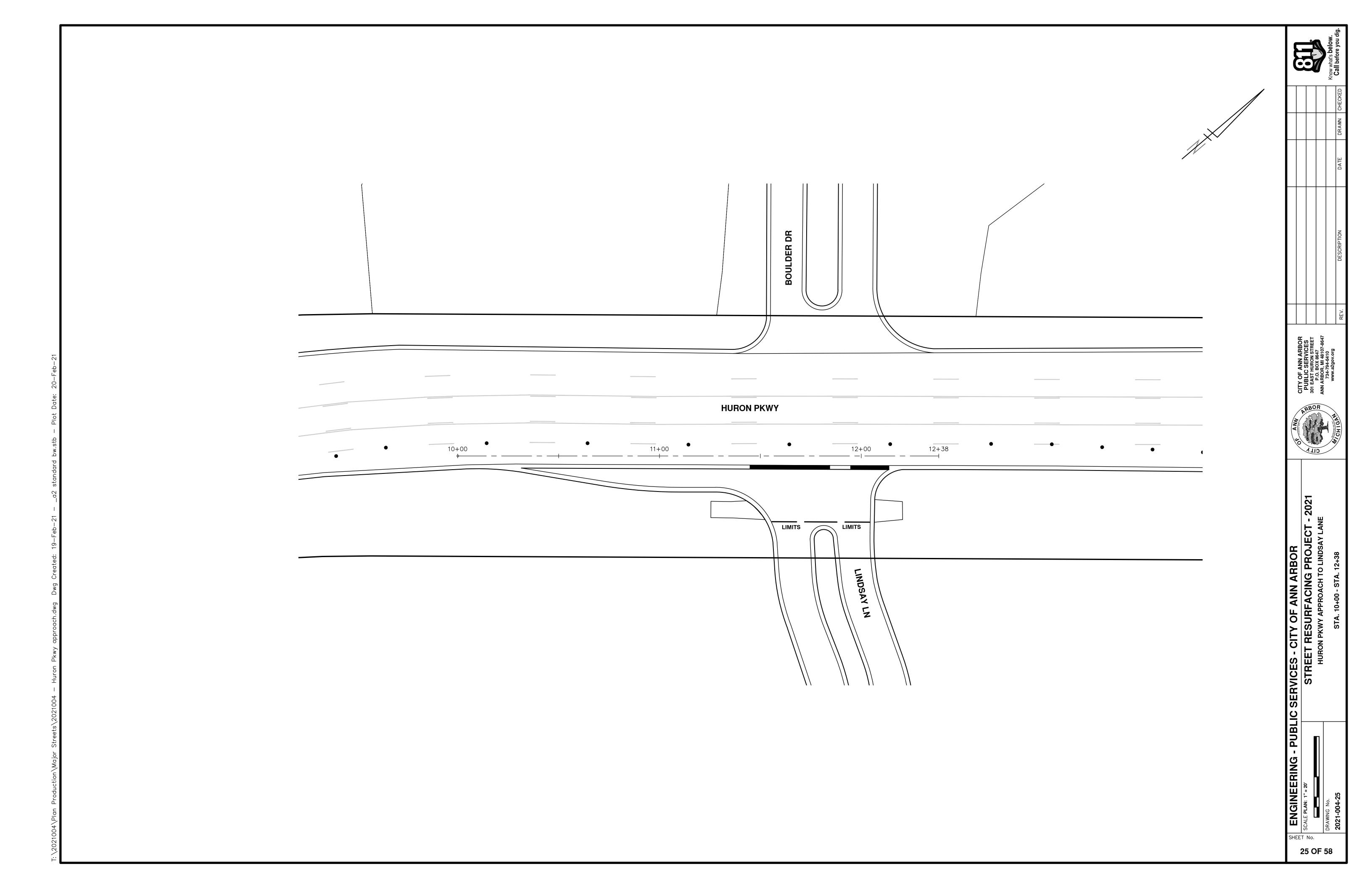
ENGINEERING

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



SHEET No.







PROJECT LOCATION: GLENWOOD ROAD

ITB No. 4667 FILE No. 2021-004

QUANTITIES				
Item Code	Item Description	Unit	Quantity	
4037050	_Dr Structure, Adj, Case 1, Modified	Ea	4.000	
4037050	_Dr Structure, Temp Lowering, Modified	Ea	5.000	
5017011	_Raised Intersection, HMA	Syd	448.000	
5017011	_Speed Hump, HMA	Syd	210.000	
6027011	_Raised Intersection, Conc	Syd	448.000	
6027011	_Speed Hump, Conc	Syd	210.000	
8117050	_Pavt Mrkg, Ovly Cold Plastic, Speed Hump Chevron, White	Ea	24.000	
8117050	_Pavt Mrkg, Polyurea, Speed Hump Chevron, White	Ea	24.000	
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	
8120252	Plastic Drum, Fluorescent, Furn	Ea	100.000	
8120253	Plastic Drum, Fluorescent, Oper	Ea	100.000	
8120350	Sign, Type B, Temp, Prismatic, Furn	Sft	302.000	
8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	302.000	
8167011	_Slope Restoration	Syd	200.000	
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	G20-2	End Road Work	4.500	9.000		
5.0	W3-2	Yield Ahead	9.000	45.000		
5.0	W1-4L	Reverse Curve (Right)	9.000	45.000		
2.0	W20-1	Road Work Ahead Sign	9.000	18.000		
10.0	W20-4	One Lane Road Ahead	9.000	90.000		
5.0	R1-2	Yield	16.000	80.000		
5.0	R1-2A	To Oncoming Traffic	3.000	15.000		
			TOTAL	302.000		

CASTING TABLE				
		FACILITY ID'S		
WATER	NA	NA		
SANITARY	NA	NA		
STORM	NA	NA		
WATER BOX	NA	NA		

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:

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ENGINEERING

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



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ANN ARBOR
ACING PROJECT

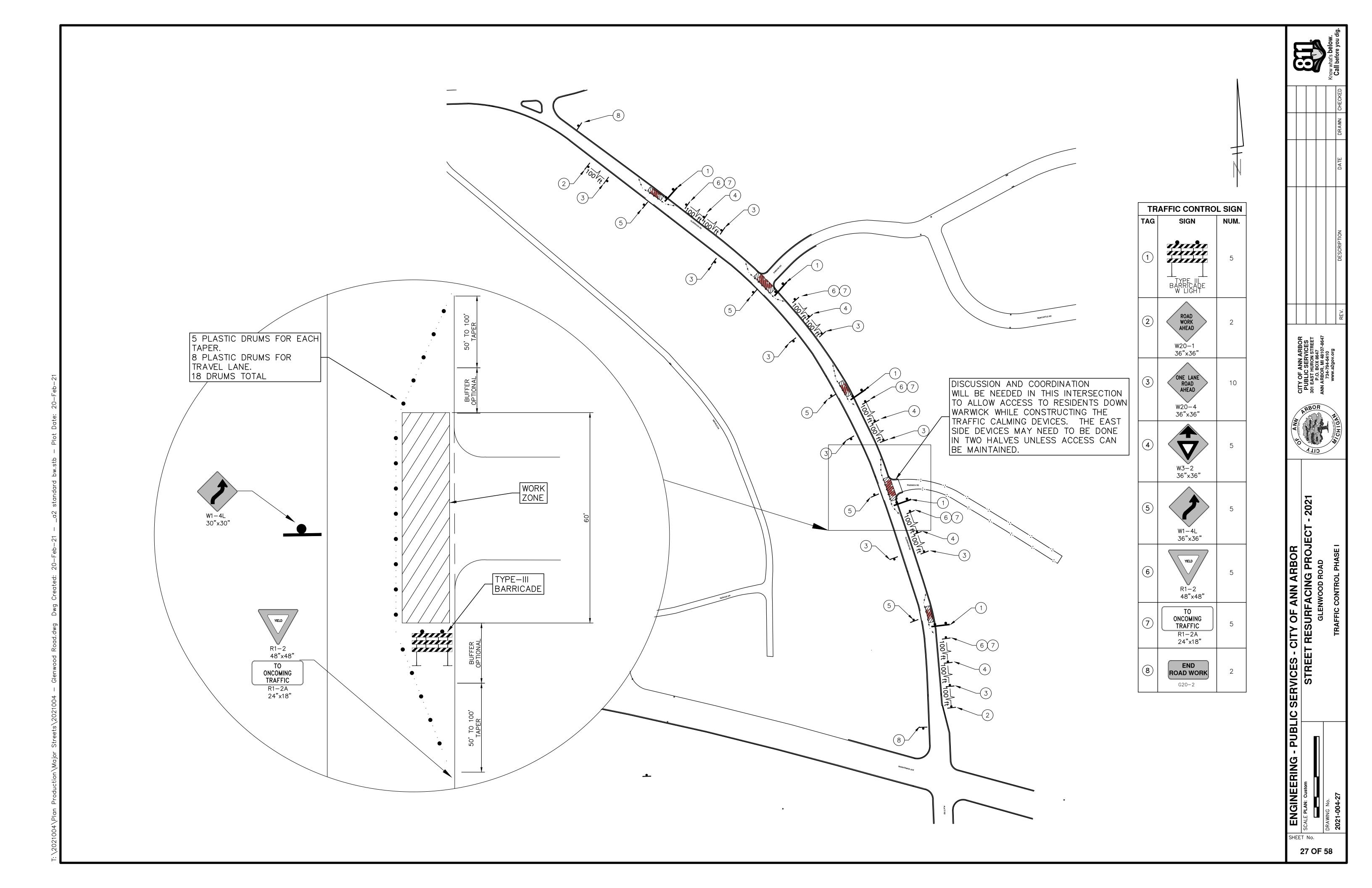
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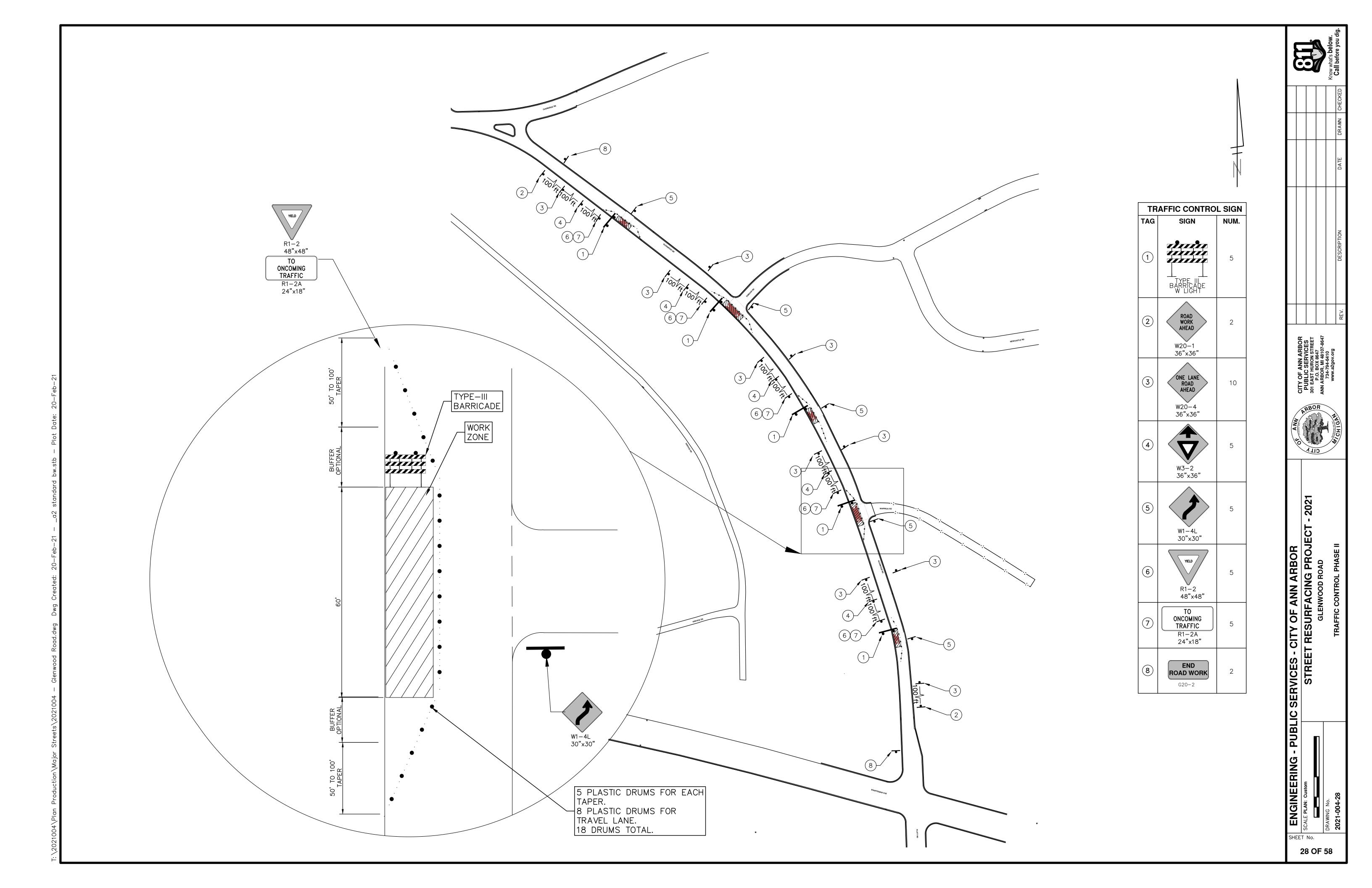
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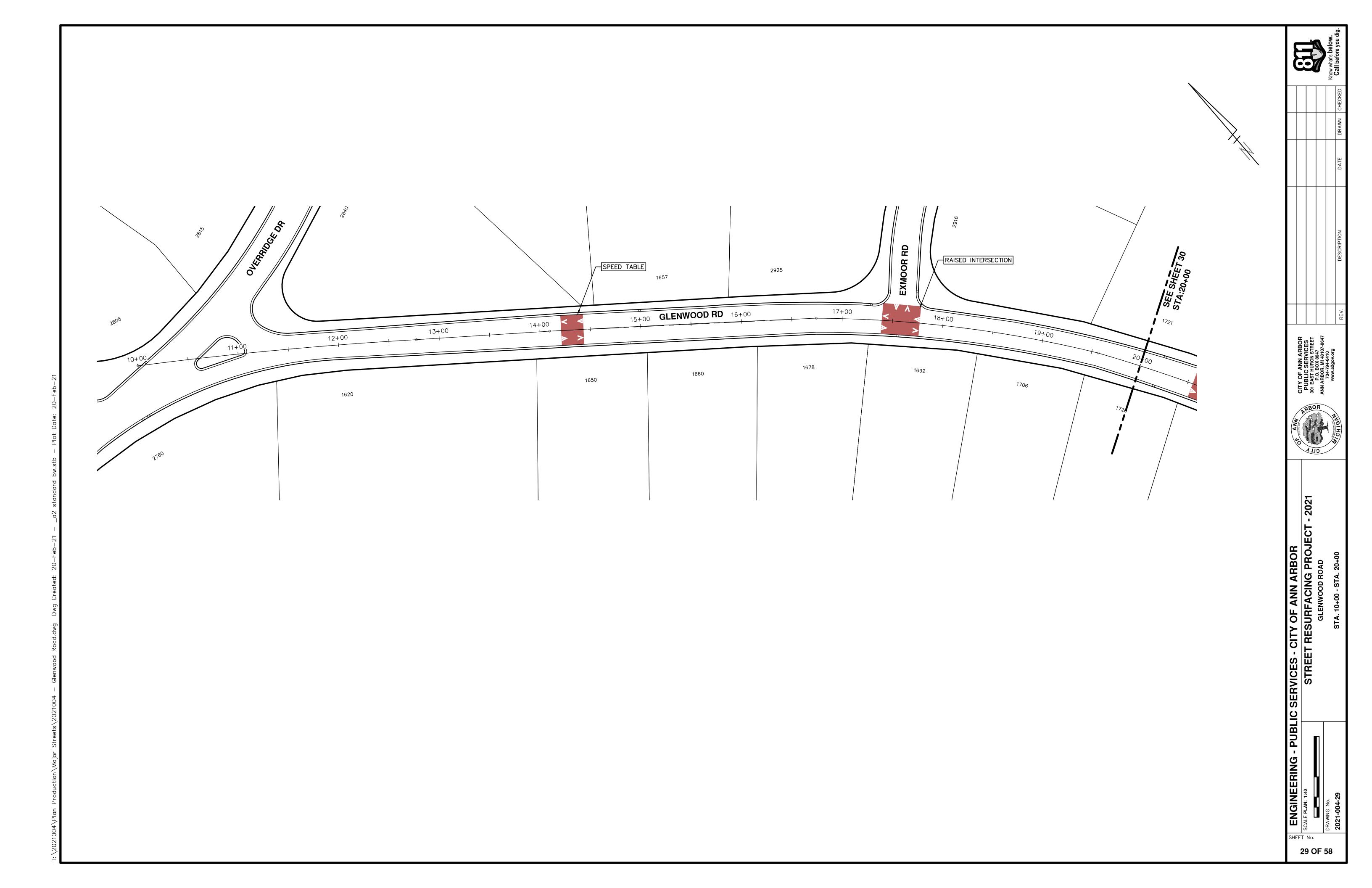
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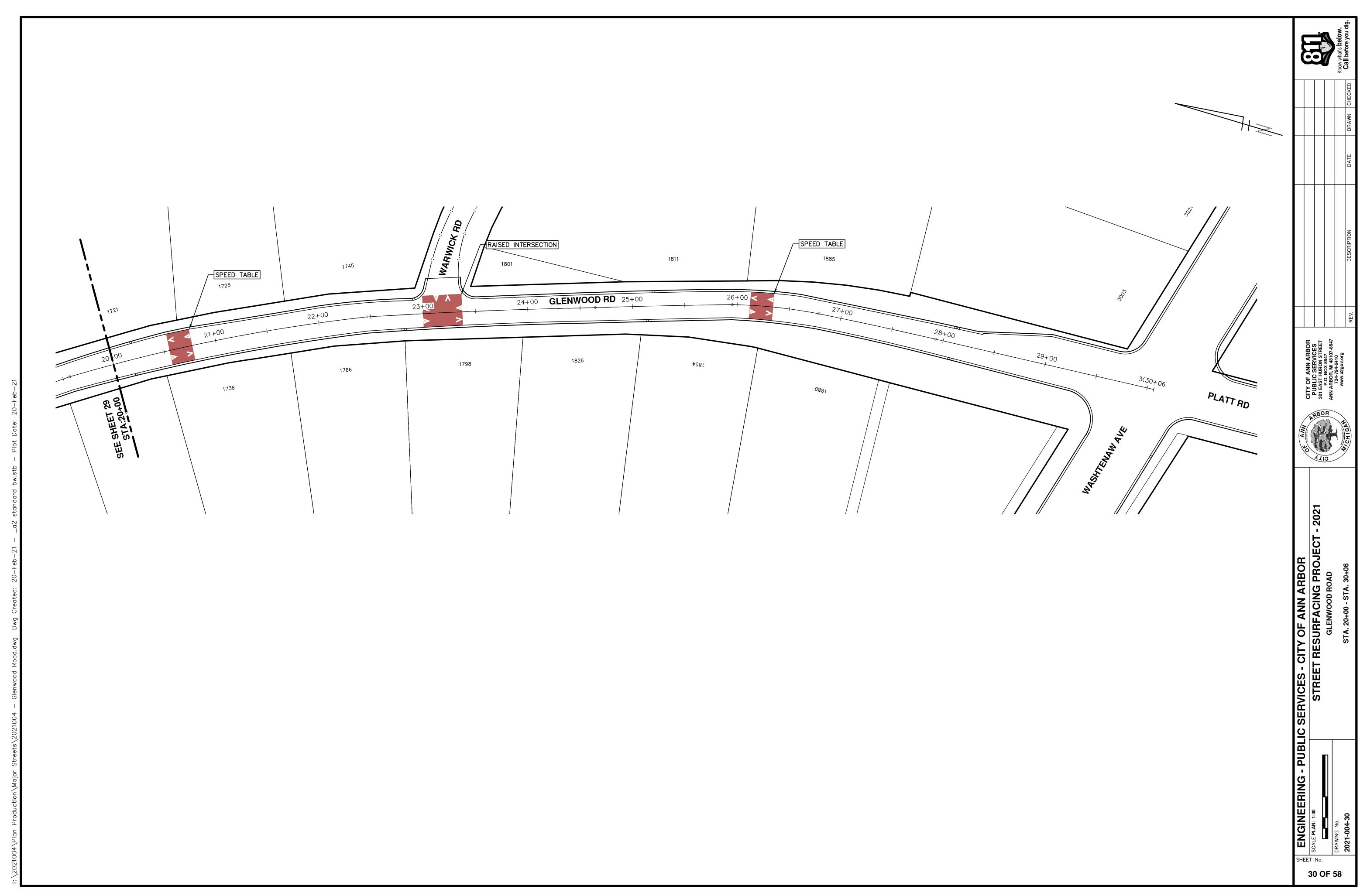
DRAWING No.

SHEET No.







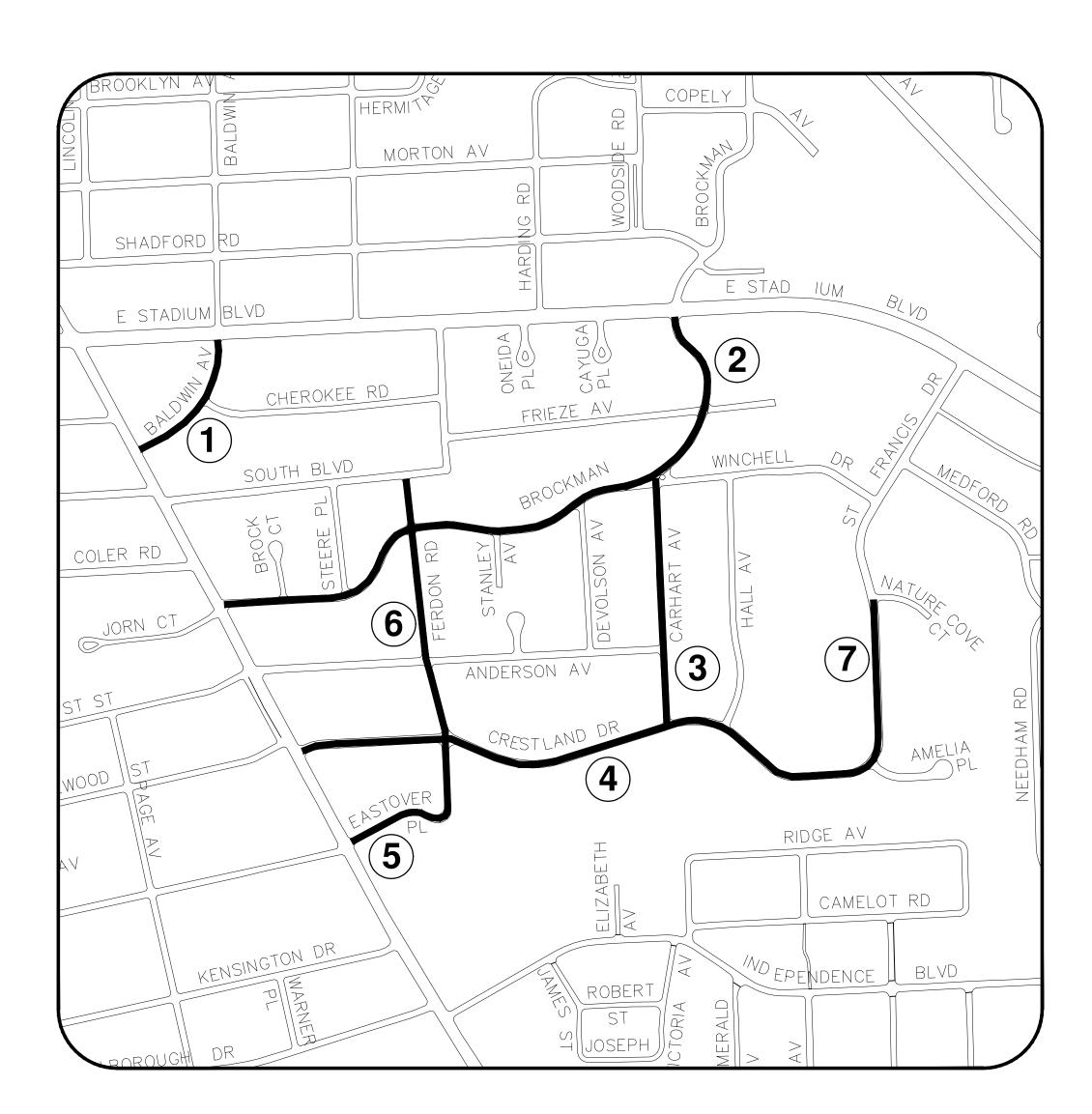




STREET RESURFACING PROJECT - 2021 PHASE 1

ITB No. 4667 FILE No. 2021-004





SHEET INDEX

SHEET NO.	TITLE	MAP INDEX NO. (THIS SHEET)
32	BALDWIN AVENUE	1
33	BROCKMAN BOULEVARD	2
34	CARHART AVENUE	3
35	CRESTLAND STREET	4
36	EASTOVER PLACE	5
37	FERDON ROAD	6
38	SAINT FRANCIS DRIVE	7

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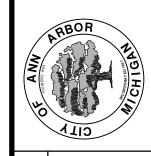
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ENGINEERING

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

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



30R ROJECT - 2021

URFACING PROPHASE 1

TREET RESURF

UBLIC SERVICES STREE

E: NTS

MING No.

SHEET No.



PROJECT LOCATION: BALDWIN AVENUE

ITB No. 4667 FILE No. 2021-004

QUANTITIES				
Item Code	Item Description	Unit	Quantity	
2040005	Pavt, Rem	Syd	26.000	
2047001	_Curb, Gutter, and Curb and Gutter, Any Type, Rem	Ft	236.000	
2047011	_Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	Syd	85.000	
2057011	_Grading, Driveway Approach	Syd	95.000	
2057011	_Machine Grading, Special	Syd	1,552.000	
2057021	_Undercutting, Type IIA	Cyd	52.000	
2080020	Erosion Control, Inlet Protection, Fabric Drop	Ea	6.000	
4037050	_Dr Structure Cover, Type B, Modified	Ea	7.000	
4037050	_Dr Structure, Adj, Case 1, Modified	Ea	9.000	
4037050	_Dr Structure, Temp Lowering, Modified	Ea	10.000	
5010002	Cold Milling HMA Surface	Syd	1,552.000	
5010005	HMA Surface, Rem	Syd	26.000	
5010025	Hand Patching	Ton	3.000	
5010061	HMA Approach	Ton	5.000	
5010703	HMA, LVSP	Ton	359.000	
5017011	_Cold Milling for Concrete Curb and Gutter Reveal	Syd	163.000	
6027021	_Flowable Fill	Cyd	4.000	
8017011	_Driveway, Nonreinf Conc, 6 inch, Modified	Syd	68.000	
8027001	_Curb and Gutter, Conc, Barrier	Ft	91.000	
8027001	_Driveway Opening, Conc, Det M, Modified	Ft	145.000	
8110197	Pavt Mrkg, Thermopl, 6 inch, Crosswalk	Ft	110.000	
8110218	Pavt Mrkg, Thermopl, 24 inch, Stop Bar	Ft	12.000	
8120012	Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	Ea	3.000	
8120013	Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	Ea	3.000	
8120035	Channelizing Device, 42 inch, Fluorescent, Furn	Ea	56.000	
8120036	Channelizing Device, 42 inch, Fluorescent, Oper	Ea	56.000	
8120141	Lighted Arrow, Type C, Oper	Ea	2.000	
8120252	Plastic Drum, Fluorescent, Furn	Ea	9.000	
8120253	Plastic Drum, Fluorescent, Oper	Ea	9.000	
8120350	Sign, Type B, Temp, Prismatic, Furn	Sft	312.000	
8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	312.000	
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	18.000	
8167011	_Slope Restoration	Syd	25.000	
8230431	Gate Box, Adj, Case 1	Ea	1.000	
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)		
5.0	*D3-1	Street Name Sign	4.000	20.000		
4.0	G20-2	End Road Work	4.500	18.000		
1.0	W1-4L	Reverse Curve (Left)	9.000	9.000		
1.0	W1-4L	Reverse Curve (Right)	9.000	9.000		
2.0	W1-6L	Shift arrow Left	9.000	18.000		
2.0	W1-6R	Shift arrow Right	9.000	18.000		
4.0	W3-5B	Reduce Speed Zone	9.000	36.000		
1.0	W4-2R	Lane Ends / Right	9.000	9.000		
5.0	W20-1	Road Work Ahead Sign	9.000	45.000		
1.0	W20-5A	Center Lane Closed Ahead	9.000	9.000		
1.0	W20-5R	Right Lane Closed Ahead	9.000	9.000		
4.0	R2-1	Speed Limit	7.500	30.000		
4.0	R5-18C	Work Zone Begins	16.000	64.000		
3.0	R11-3a	Road Closed Local Traffic Only	12.500	38.000		
			TOTAL	332.000		

CASTING TABLE				
		FACILITY ID'S		
WATER	1	01-03716		
SANITARY	2	71-69175/ 71-69176		
STORM	4	92-58367/ 92-58366/ 92-58365/ 92-58364		
WATER BOX	NA	NA		

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

- 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:

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.



ENGINEERING

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



SHEET No.



PROJECT LOCATION: BROCKMAN BOULEVARD

Quantity **Item Description** Item Code Unit Dr Structure, Rem Ea 10.000 Sewer, Rem, Less than 24 inch Ft 100.000 _Curb, Gutter, and Curb and Gutter, Any Type, Rem 1,400.000 Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem 1,021.000 2047011 Grading, Driveway Approach 2057011 514.000 Syd 2057011 _Grading, Sidewalk 28.000 _Grading, Sidewalk Ramp Syd 32.000 10,233.000 _Machine Grading, Specia Undercutting, Type IIA 319.000 Erosion Control, Inlet Protection, Fabric Drop 25.000 Sewer, CI IV, 12 inch, Tr Det B Ft 100.000 Cyd 4021260 Trench Undercut and Backfill 30.000 Dr Structure, 24 inch dia 10.000 Dr Structure, Adj, Add Depth 4030280 1.000 _Dr Structure Cover, Type B, Modified 20.000 _Dr Structure Cover, Type K, Modified Ea 12.000 _Dr Structure, Adj, Case 1, Modified Ea 27.000 _Dr Structure, Adj, Case 2, Modified Ea 1.000 _Dr Structure, Cleaning, Modified 1.000 _Dr Structure, Temp Lowering, Modified 35.000 Structure. Reconstruct 1.000 _Underdrain, Subgrade, 6 inch, Special Ft 110.000 Yard Drain, Outlet Ending, Plastic Pipe 1.000 _Yard Drain, Outlet Ending, Pop-up Apparatus 1.000 Cold Milling HMA Surface Syd 10,233.000 5010002 HMA Surface, Rem Syd 5010005 310.000 Hand Patching 5010025 Ton 18.000 HMA Approach 5010061 Ton 76.000 HMA, LVSP 2,213.000 Ton Cold Milling for Concrete Curb and Gutter Reveal Syd 5017011 725.000 _HMA, Wedging, 36A Ton 9.000 Flowable Fill Cyd 6027021 26.000 Driveway, Nonreinf Conc, 6 inch, Modified Syd 514.000 Curb and Gutter, Conc, Barrier 8027001 825.000 _Driveway Opening, Conc, Det M, Modified 575.000 Curb Ramp Opening, Conc 8030030 Ft 48.000 _Detectable Warning Surface, Modified 40.000 _Sidewalk Ramp, Conc, 6 inch, Modified 287.000 _Sidewalk, Conc or Clay Brick Pavers, Rem and Reinstall Sft 30.000 Sidewalk, Conc, 4 inch, Modified 8037010 Sft 250.000 Pavt Mrkg, Polyurea, 4 inch, Yellow 8110092 360.000 Pavt Mrkg, Thermopl, 6 inch, Crosswalk 8110197 Ft 310.000 Pavt Mrkg, Thermopl, 24 inch, Stop Bar 45.000 Barricade, Type III, High Intensity, Double Sided, Lighted, Furn 11.000 Barricade, Type III, High Intensity, Double Sided, Lighted, Oper 8120013 Ea 11.000 Lighted Arrow, Type C, Oper Ea 2.000 8120141 Plastic Drum, Fluorescent, Furn 8120252 Ea 75.000 Plastic Drum, Fluorescent, Oper 8120253 Ea 75.000 Sign, Type B, Temp, Prismatic, Furn Sft 78.000

Sft

Sft

Sft

Ea

Syd

Ea

Ea

78.000

60.000

60.000

83.000

25.000

10.000

6.000

Sign, Type B, Temp, Prismatic, Oper

_Temporary No Parking Sign

_Slope Restoration

Gate Box, Adj, Case 1

Sign, Type B, Temp, Prismatic, Special, Furn

Sign, Type B, Temp, Prismatic, Special, Oper

HMA Surface, Around Structure Cover, Rem

8120351

8120352

8120353

8127050

8167011

8507050

ITB No. 4667 FILE No. 2021-004

	QUANTITIES					
	Sign, Type B, Temp, Prismatic & *Sign, Type B, Temp, Prismatic, Special					
Quantity	Sign Code	Description	Area (sft)	Total Area (Sft)		
15.0	*D3-1	Street Name Sign	4.000	60.000		
2.0	G20-2	End Road Work	4.500	9.000		
1.0	W1-4L	Reverse Curve (Left)	9.000	9.000		
1.0	W1-4L	Reverse Curve (Right)	9.000	9.000		
2.0	W1-6L	Shift arrow Left	9.000	18.000		
2.0	W1-6R	Shift arrow Right	9.000	18.000		
2.0	W3-5B	Reduce Speed Zone	9.000	18.000		
1.0	W4-2R	Lane Ends / Right	9.000	9.000		
15.0	W20-1	Road Work Ahead Sign	9.000	135.000		
1.0	W20-5A	Center Lane Closed Ahead	9.000	9.000		
1.0	W20-5R	Right Lane Closed Ahead	9.000	9.000		
4.0	R2-1	Speed Limit	7.500	30.000		
4.0	R5-18C	Work Zone Begins	16.000	64.000		
11.0	R11-3a	Road Closed Local Traffic Only	12.500	138.000		
			TOTAL	535.000		

CASTING TABLE					
	FACILITY ID'S				
WATER	3	HV-00002/01-07549/01-007 32			
SANITARY	11	71-69166/ 71-69167/ 71-69884/ 71-69786/ 71-69787/ 71-69788/ 71-69750/71-69507/ 71-69502/ 71-69501/ 71-62379			
STORM	4	92-58386/ 92-59060/ 92-59002/ 92-50727			
WATER BOX	11	01-07589/ 01-07587/ 01-07588/ 01-01946/ 01-07582/01-06989/ 01-01907/ 01-07581/ 01-07583/ 01-08447/ 01-01875			

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.
- PERFORM ALL CONCRETE WORK, INCLUDING RESTORATION, IN ACCORDANCE WITH THE PLANS, AND AS
- 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
- 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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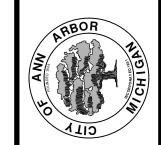
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ENGINEERING

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



SHEET No.



PROJECT LOCATION: CARHART AVENUE

ITB No. 4667 FILE No. 2021-004

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	339.000	
2047011	_Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	Syd	39.000	
2057011	_Grading, Driveway Approach	Syd	12.000	
2057011	_Grading, Sidewalk	Syd	12.000	
2057011	_Grading, Sidewalk Ramp	Syd	15.000	
2080020	Erosion Control, Inlet Protection, Fabric Drop	Ea	6.00	
4020987	Sewer, Cl IV, 12 inch, Tr Det B	Ft	40.00	
4021260	Trench Undercut and Backfill	Cyd	12.00	
4030200	Dr Structure, 24 inch dia	Ea	4.000	
4037050	_Dr Structure Cover, Type B, Modified	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	40.000	
4047001	_Yard Drain, Outlet Ending, Plastic Pipe	Ft	4.00	
4047050	_Yard Drain, Outlet Ending, Pop-up Apparatus	Ea	4.00	
5010002	Cold Milling HMA Surface	Syd	3,015.00	
5010005	HMA Surface, Rem	Syd	165.00	
5010025	Hand Patching	Ton	9.00	
5010703	HMA, LVSP	Ton	349.00	
5017011	_Cold Milling for Concrete Curb and Gutter Reveal	Syd	320.00	
5017011	_Cold Milling HMA Surface, Modified	Syd	127.00	
5017031	_HMA, Wedging, 36A	Ton	5.00	
8017011	_Driveway, Nonreinf Conc, 6 inch, Modified	Syd	12.00	
8027001	_Curb and Gutter, Conc, Barrier	Ft	236.00	
8027001	_Driveway Opening, Conc, Det M, Modified	Ft	88.00	
8030030	Curb Ramp Opening, Conc	Ft	12.00	
8037001	_Detectable Warning Surface, Modified	Ft	10.00	
8037010	_Sidewalk Ramp, Conc, 6 inch, Modified	Sft	133.00	
8037010	_Sidewalk, Conc, 4 inch, Modified	Sft	110.00	
8110197	Pavt Mrkg, Thermopl, 6 inch, Crosswalk	Ft	108.00	
8110218	Pavt Mrkg, Thermopl, 24 inch, Stop Bar	Ft	35.00	
8120012	Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	Ea	3.00	
8120013	Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	Ea	3.00	
8120252	Plastic Drum, Fluorescent, Furn	Ea	21.00	
8120253	Plastic Drum, Fluorescent, Oper	Ea	21.00	
8120350	Sign, Type B, Temp, Prismatic, Furn	Sft	43.00	
8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	43.00	
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	4.00	
8127050	_Temporary No Parking Sign	Ea	33.00	
8167011	_Slope Restoration	Syd	85.00	
8507050	HMA Surface, Around Structure Cover, Rem	Ea	12.00	

	QUANTITIES					
	Sign, Type B, Temp, Prismatic & *Sign, Type B, Temp, Prismatic, Special					
Quantity	Quantity Sign Code Description 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		
2.0	R11-3a	Road Closed Local Traffic Only	12.500	25.000		
			TOTAL	51.000		

	CASTING TABLE	
		FACILITY ID'S
WATER	NA	NA
SANITARY	NA	NA
STORM	NA	NA
WATER BOX	NA	NA

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
- 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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ENGINEERING

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



SHEET No.



PROJECT LOCATION: CRESTLAND STREET

QUANTITIES				
Item Code	Item Description	Unit	Quantity	
2030011	Dr Structure, Rem	Ea	12.000	
2030015	Sewer, Rem, Less than 24 inch	Ft	120.000	
2047001	_Curb, Gutter, and Curb and Gutter, Any Type, Rem	Ft	1,266.000	
2047001	_Exploratory Excavation, Vertical	Ft	3.000	
2047011	_Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	Syd	484.000	
2057011	_Grading, Driveway Approach	Syd	73.000	
2057011	_Grading, Sidewalk	Syd	42.000	
2057011	_Grading, Sidewalk Ramp	Syd	29.000	
2057011	_Machine Grading, Special	Syd	9,356.000	
2057021	_Undercutting, Type IIA	Cyd	278.000	
2080020	Erosion Control, Inlet Protection, Fabric Drop	Ea	20.000	
4020987	Sewer, Cl IV, 12 inch, Tr Det B	Ft	120.000	
4021260	Trench Undercut and Backfill	Cyd	36.000	
4030200	Dr Structure, 24 inch dia	Ea	12.000	
4037050	_Dr Structure Cover, Type B, Modified	Ea	29.000	
4037050		Ea	13.000	
4037050		Ea	32.000	
4037050	Dr Structure, Temp Lowering, Modified	Ea	34.000	
4047001		Ft	120.000	
4047001	Yard Drain, Outlet Ending, Plastic Pipe	Ft	2.000	
5010002	Cold Milling HMA Surface	Syd	9,356.000	
	HMA Surface, Rem	Syd	•	
5010005	Hand Patching	+	141.000	
5010025	HMA Approach	Ton	16.000	
5010061		Ton	117.000	
5010703	HMA, LVSP Flowable Fill	Ton	1,929.000	
6027021	_	Cyd	23.000	
8017011	_Driveway, Nonreinf Conc, 6 inch, Modified	Syd	72.000	
8017011	_Driveway, Nonreinf Conc, 8 inch, Modified	Syd	2.000	
8027001	_Curb and Gutter, Conc, Barrier	Ft	601.000	
8027001	_Curb and Gutter, Conc, Mountable	Ft	122.000	
8027001	_Driveway Opening, Conc, Det M, Modified	Ft	519.000	
8030030	Curb Ramp Opening, Conc	Ft	24.000	
8037001	_Detectable Warning Surface, Modified	Ft	20.000	
8037010	_Sidewalk Ramp, Conc, 6 inch, Modified	Sft	264.000	
8037010	_Sidewalk, Conc or Clay Brick Pavers, Rem and Reinstall	Sft	6.000	
8037010	_Sidewalk, Conc, 4 inch, Modified	Sft	381.000	
8110197	Pavt Mrkg, Thermopl, 6 inch, Crosswalk	Ft	282.000	
8110214	Pavt Mrkg, Thermopl, 12 inch, Crosswalk	Ft	208.000	
8110218	Pavt Mrkg, Thermopl, 24 inch, Stop Bar	Ft	104.000	
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	
8120035	Channelizing Device, 42 inch, Fluorescent, Furn	Ea	25.000	
8120036	Channelizing Device, 42 inch, Fluorescent, Oper	Ea	25.000	
8120141	Lighted Arrow, Type C, Oper	Ea	1.000	
8120252	Plastic Drum, Fluorescent, Furn	Ea	74.000	
8120253	Plastic Drum, Fluorescent, Oper	Ea	74.000	
8120350	Sign, Type B, Temp, Prismatic, Furn	Sft	67.000	
8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	67.000	
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	75.000	
8167011	_Slope Restoration	Syd	25.000	

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	G20-2	End Road Work	4.500	9.000	
1.0	W1-4L	Reverse Curve (Left)	9.000	9.000	
1.0	W1-4L	Reverse Curve (Right)	9.000	9.000	
2.0	W1-6L	Shift arrow Left	9.000	18.000	
2.0	W1-6R	Shift arrow Right	9.000	18.000	
2.0	W3-5B	Reduce Speed Zone	9.000	18.000	
6.0	W20-1	Road Work Ahead Sign	9.000	54.000	
0.0	W20-2	Detour Ahead	9.000	0.000	
1.0	W20-5A	Center Lane Closed Ahead	9.000	9.000	
1.0	W20-5R	Right Lane Closed Ahead	9.000	9.000	
2.0	R2-1	Speed Limit	7.500	15.000	
2.0	R5-18C	Work Zone Begins	16.000	32.000	
6.0	R11-3a	Road Closed Local Traffic Only	12.500	75.000	
			TOTAL	283.000	

	CASTING TABLE	
		FACILITY ID'S
WATER	1	01-00449
SANITARY	16	71-69096/ 71-69862/ 71-69864/ 71-69760/ 71-69749/ 71-69748/ 71-69747/ 71-69746/ 71-69456/ 71-69457/ 71-62326/ 71-62324/ 71-62323/ 71-62321/ 71-62322/ 71-62320
STORM	11	92-58978/ 92-58979/ 92-58968/ 92-58980/ 92-58969/ 92-58960/ 92-50617/ 92-50629/ 92-50618/ 92-50633/ 92-50635/
WATER BOX	3	01-07575/ 01-07572/ 01-07573

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.
- 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:

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ENGINEERING

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

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



BOR PROJECT - 2021

ESURFACING PR CRESTLAND STREET

SERVICES - CITY STREET RE

ENGINEERIN SCALE: NTS DRAWING No.



PROJECT LOCATION: EASTOVER PLACE

ITB No. 4667 FILE No. 2021-004

	QUANTITIES				
Item Code	Item Description	Unit	Quantity		
2047001	_Curb, Gutter, and Curb and Gutter, Any Type, Rem	Ft	104.000		
2047011	_Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	Syd	18.000		
2057011	_Grading, Driveway Approach	Syd	18.000		
2057011	_Machine Grading, Special	Syd	1,040.00		
2080020	Erosion Control, Inlet Protection, Fabric Drop	Ea	5.00		
5010002	Cold Milling HMA Surface	Syd	1,040.00		
5010005	HMA Surface, Rem	Syd	12.00		
5010025	Hand Patching	Ton	1.00		
5010703	HMA, LVSP	Ton	91.00		
6027021	_Flowable Fill	Cyd	2.00		
8017011	_Driveway, Nonreinf Conc, 8 inch, Modified	Syd	18.00		
8027001	_Curb and Gutter, Conc, Barrier	Ft	20.00		
8027001	_Driveway Opening, Conc, Det M, Modified	Ft	84.00		
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		
8120035	Channelizing Device, 42 inch, Fluorescent, Furn	Ea	28.00		
8120036	Channelizing Device, 42 inch, Fluorescent, Oper	Ea	28.00		
8120141	Lighted Arrow, Type C, Oper	Ea	1.00		
8120252	Plastic Drum, Fluorescent, Furn	Ea	5.00		
8120253	Plastic Drum, Fluorescent, Oper	Ea	5.00		
8120350	Sign, Type B, Temp, Prismatic, Furn	Sft	148.00		
8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	148.00		
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	12.00		
8167011	_Slope Restoration	Syd	42.00		
8507050	_HMA Surface, Around Structure Cover, Rem	Ea	1.00		

QUANTITIES Sign, Type B, Temp, Prismatic & *Sign, Type B, Temp, Prismatic, Special					
2.0	*D3-1	Street Name Sign	4.000	8.000	
2.0	G20-2	End Road Work	4.500	9.000	
1.0	W1-4L	Reverse Curve (Left)	9.000	9.000	
1.0	W1-4L	Reverse Curve (Right)	9.000	9.000	
2.0	W1-6L	Shift arrow Left	9.000	18.000	
2.0	W1-6R	Shift arrow Right	9.000	18.000	
2.0	W3-5B	Reduce Speed Zone	9.000	18.000	
2.0	W20-1	Road Work Ahead Sign	9.000	18.000	
1.0	W20-5A	Center Lane Closed Ahead	9.000	9.000	
2.0	R2-1	Speed Limit	7.500	15.000	
2.0	R11-3a	Road Closed Local Traffic Only	12.500	25.000	
			TOTAL	156.000	

CASTING TABLE				
		FACILITY ID'S		
WATER	NA	NA		
SANITARY	NA	NA		
STORM	NA	NA		
WATER BOX	NA	NA		

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.
- 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.



ENGINEERING

CITY OF ANN ARBOR PUBLIC SERVICES 301 EAST HURON STREET, P.O. BOX 8647 ANN ARBOR, MICHIGAN 48107-8647 734-794-6410 www.a2gov.org REV. DESCRIPTION DATE DRAWN CHECKED Call befor

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2021

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EASTOVER PLA

AVICES - CITY (STREET RESU

EERING - PUBLIC

ENGINEERING SCALE: NTS

DRAWING NO

SHEET No.



PROJECT LOCATION: FERDON ROAD

ITB No. 4667 FILE No. 2021-004

	QUANTITIES		
Item Code	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	806.000
2047011	_Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	Syd	25.000
2057011	_Grading, Driveway Approach	Syd	32.000
2057011	_Grading, Sidewalk	Syd	18.000
2057011	_Grading, Sidewalk Ramp	Syd	7.000
2057011	_Machine Grading, Special	Syd	3,766.000
2057021	_Undercutting, Type IIA	Cyd	126.000
2080020	Erosion Control, Inlet Protection, Fabric Drop	Ea	16.000
4020987	Sewer, CI IV, 12 inch, Tr Det B	Ft	50.000
4021260	Trench Undercut and Backfill	Cyd	15.000
4030200	Dr Structure, 24 inch dia	Ea	5.000
4037050	_Dr Structure Cover, Type B, Modified	Ea	4.000
4037050	_Dr Structure Cover, Type K, Modified	Ea	5.000
4037050	_Dr Structure, Adj, Case 1, Modified	Ea	6.000
4037050	_Dr Structure, Temp Lowering, Modified	Ea	7.000
4047001	_Underdrain, Subgrade, 6 inch, Special	Ft	50.000
4047001	_Yard Drain, Outlet Ending, Plastic Pipe	Ft	2.000
5010002	Cold Milling HMA Surface	Syd	3,766.000
5010005	HMA Surface, Rem	Syd	90.000
5010025	Hand Patching	Ton	10.000
5010703	HMA, LVSP	Ton	870.000
6027021	_Flowable Fill	Cyd	15.000
8017011	_Driveway, Nonreinf Conc, 6 inch, Modified	Syd	14.000
8017011	_Driveway, Nonreinf Conc, 8 inch, Modified	Syd	18.000
8027001	_Curb and Gutter, Conc, Barrier	Ft	283.000
8027001	_Driveway Opening, Conc, Det M, Modified	Ft	511.000
8030030	Curb Ramp Opening, Conc	Ft	12.000
8037001	_Detectable Warning Surface, Modified	Ft	10.000
8037010	_Sidewalk Ramp, Conc, 6 inch, Modified	Sft	60.000
8037010	_Sidewalk, Conc, 4 inch, Modified	Sft	165.000
8110197	Pavt Mrkg, Thermopl, 6 inch, Crosswalk	Ft	70.000
8110218	Pavt Mrkg, Thermopl, 24 inch, Stop Bar	Ft	43.000
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
8120252	Plastic Drum, Fluorescent, Furn	Ea	46.000
8120253	Plastic Drum, Fluorescent, Oper	Ea	46.000
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	8.000
8120353	Sign, Type B, Temp, Prismatic, Special, Oper	Sft	8.000
8127050	_Pedestrian Type II Barricade, Temp	Ea	4.000
8127050	Temporary No Parking Sign	Ea	42.000
8167011		Syd	25.000
8230431	Gate Box, Adj, Case 1	Ea	
023043 I	- Cato Box, Fig., Cato 1	са	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			
2.0	R11-3a	Road Closed Local Traffic Only	12.500	25.000			
			TOTAL	51.000			

		FACILITY ID'S
WATER	NA	NA
SANITARY	3	71-69887/ 71-69888/ 71-69762/
STORM	1	92-58977
WATER BOX	1	01-07534

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
- 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:

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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ENGINEERING

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



SHEET No.



PROJECT LOCATION: SAINT FRANCIS DRIVE

ITB No. 4667 FILE No. 2021-004

	QUANTITIES		
Item Code	Item Description	Unit	Quantity
2047001	_Curb, Gutter, and Curb and Gutter, Any Type, Rem	Ft	92.000
2047011	_Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	Syd	5.000
2057011	_Grading, Driveway Approach	Syd	5.000
2057011	_Machine Grading, Special	Syd	1,611.000
2057021	_Undercutting, Type IIA	Cyd	54.000
2080020	Erosion Control, Inlet Protection, Fabric Drop	Ea	2.000
4037050	_Dr Structure Cover, Type C, Modified	Ea	2.000
4037050	_Dr Structure Cover, Type D, Modified	Ea	2.000
4037050	_Dr Structure, Adj, Case 1, Modified	Ea	4.000
4037050	_Dr Structure, Temp Lowering, Modified	Ea	2.000
5010002	Cold Milling HMA Surface	Syd	1,611.000
5010005	HMA Surface, Rem	Syd	10.000
5010025	Hand Patching	Ton	1.000
5010703	HMA, LVSP	Ton	373.000
6027021	_Flowable Fill	Cyd	2.000
8017011	_Driveway, Nonreinf Conc, 6 inch, Modified	Syd	5.000
8027001	_Curb and Gutter, Conc, Mountable	Ft	92.000
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
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	8.000
8120353	Sign, Type B, Temp, Prismatic, Special, Oper	Sft	8.000
8127050	_Temporary No Parking Sign	Ea	15.000
8167011	_Slope Restoration	Syd	30.000

	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			
2.0	R11-3a	Road Closed Local Traffic Only	12.500	25.000			
			TOTAL	51.000			

	CASTING TABLE	
		FACILITY ID'S
WATER	NA	NA
SANITARY	NA	NA
STORM	NA	NA
WATER BOX	NA	NA

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
- 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:

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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ENGINEERING

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



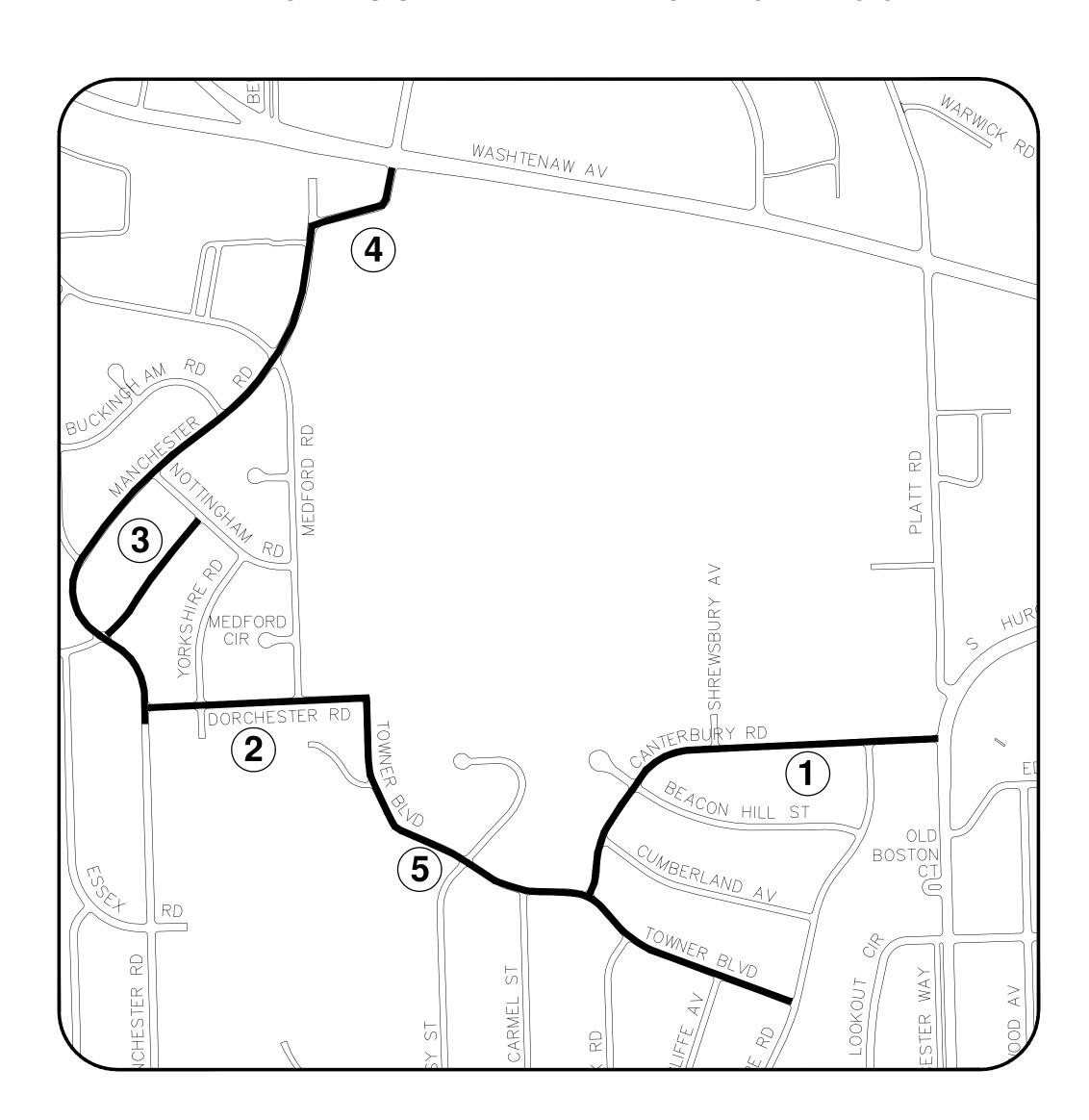
SHEET No.



STREET RESURFACING PROJECT - 2021 PHASE 2A

ITB No. 4667 FILE No. 2021-004





SHEET INDEX

SHEET NO.	TITLE	MAP INDEX NO. (THIS SHEET)
40	CANTERBURY ROAD	1
41	DORCHESTER ROAD	2
42	INDEPENDENCE BLVD. 2	3
43	MANCHESTER ROAD	4
44	TOWNER BLVD	5

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.

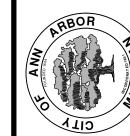
THE UNDERGROUND LOCATIONS SHOWN FOR NATURAL GAS, TELEPHONE, ELECTRICAL POWER, CABLE TV AND FIBER OPTIC LINES ARE APPROXIMATE. THE CITY OF ANN ARBOR ASSUMES NO RESPONSIBILITY FOR THEIR ACCURATE REPRESENTATION IN THIS DRAWING. MISS DIG MUST BE CONTACTED PRIOR TO CONSTRUCTION TO LOCATE THESE

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



SHEET No.



PROJECT LOCATION: CANTERBURY ROAD

QUANTITIES Item Description Quantity Item Code Dr Structure, Rem 10.000 Ft Sewer, Rem, Less than 24 inch 100.000 Curb, Gutter, and Curb and Gutter, Any Type, Rem 1,317.000 _Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem Syd 385.000 Syd _Grading, Driveway Approach 299.000 Syd _Grading, Sidewalk 11.000 _Grading, Sidewalk Ramp Syd 51.000 Erosion Control, Inlet Protection, Fabric Drop Ea 21.000 4020987 Sewer, CI IV, 12 inch, Tr Det B 100.000 Cyd Trench Undercut and Backfill 30.000 Dr Structure, 24 inch dia 10.000 _Dr Structure Cover, Type K, Modified 11.000 Dr Structure, Adj, Case 1, Modified Ea 10.000 Underdrain, Subgrade, 6 inch, Special 100.000 Yard Drain, Outlet Ending, Plastic Pipe 1.000 Yard Drain, Outlet Ending, Pop-up Apparatus 1.000 Cold Milling HMA Surface 5,870.000 Syd 5010002 Syd HMA Surface, Rem 293.000 Hand Patching 5010025 Ton 34.000 HMA Approach 21.000 HMA, LVSP 658.000 Raised Crosswalk, HMA Syd 5017011 61.000 Raised Intersection, HMA Syd 5017011 654.000 Syd _Speed Hump, HMA 40.000 Raised Crosswalk, Conc Syd 6027011 61.000 Raised Intersection, Conc Syd 654.000 _Speed Hump, Conc Syd 6027011 40.000 Syd Driveway, Nonreinf Conc, 6 inch, Modified 299.000 Curb and Gutter, Conc, Barrier 561.000 8027001 _Driveway Opening, Conc, Det M, Modified 8027001 727.000 Curb Ramp Opening, Conc 8030030 Ft 60.000 _Detectable Warning Surface, Modified 50.000 Sidewalk Ramp, Conc, 6 inch, Modified 8037010 Sft 455.000 Sidewalk, Conc, 4 inch, Modified Sft 8037010 50.000 Sidewalk, Conc, 6 inch, Modified 8037010 Sft 50.000 Pavt Mrkg, Ovly Cold Plastic, Speed Hump Chevron, White 8117050 18.000 _Pavt Mrkg, Polyurea, Speed Hump Chevron, White Ea 18.000 8117050 Pavt Mrkg, Thermopl, Speed Hump Chevron, White 8117050 Ea 18.000 Barricade, Type III, High Intensity, Double Sided, Lighted, Furn 8120012 Ea 5.000 Barricade, Type III, High Intensity, Double Sided, Lighted, Oper 5.000 Ea Plastic Drum, Fluorescent, Furn 8120252 Ea 78.000 Plastic Drum, Fluorescent, Oper 8120253 Ea 78.000 Sign, Type B, Temp, Prismatic, Furn Sft 227.000 8120350 Sign, Type B, Temp, Prismatic. Oper Sft 227.000 8120351 Sign, Type B, Temp, Prismatic, Special, Furn Sft 8120352 24.000 Sign, Type B, Temp, Prismatic, Special, Oper Sft 24.000 8120353 Pedestrian Type II Barricade, Temp 8127050 4.000 Ea Temporary No Parking Sign 59.000 8127050 Ea Slope Restoration Syd 360.000 8167011 Gate Box, Adj, Case 1 3.000 8230431 Ea

Ea

29.000

_HMA Surface, Around Structure Cover, Rem

8507050

ITB No. 4667 FILE No. 2021-004

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	G20-2	End Road Work	4.500	9.000	
2.0	W3-5B	Reduce Speed Zone	9.000	18.000	
1.0	W4-2R	Lane Ends / Right	9.000	9.000	
1.0	W1-6L	Shift arrow Left	9.000	9.000	
1.0	W1-6R	Shift arrow Right	9.000	9.000	
6.0	W20-1	Road Work Ahead Sign	9.000	54.000	
1.0	W20-5R	Right Lane Closed Ahead	9.000	9.000	
2.0	R2-1	Speed Limit	7.500	15.000	
2.0	R5-18C	Work Zone Begins	16.000	32.000	
5.0	R11-3a	Road Closed Local Traffic Only	12.500	63.000	
			TOTAL	251.000	

CASTING TABLE				
		FACILITY ID'S		
WATER	NA	NA		
SANITARY	NA	NA		
STORM	NA	NA		
WATER BOX	NA	NA		

CONSTRUCTION METHOD AND SEQUENCING

- OR DIRECTED BY THE ENGINEER.
- 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.
- 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.
- 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
- 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 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.



ENGINEERING

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



SHEET No.



PROJECT LOCATION: DORCHESTER ROAD

QUANTITIES Item Description Quantity Item Code Dr Structure, Rem 3.000 Sewer, Rem, Less than 24 inch Ft 30.000 1,504.000 _Curb, Gutter, and Curb and Gutter, Any Type, Rem _Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem Syd 90.000 Syd _Grading, Driveway Approach 55.000 _Grading, Sidewalk Ramp Syd 4.000 Syd Machine Grading, Special 2,569.000 Cyd _Undercutting, Type IIA 86.000 Erosion Control, Inlet Protection, Fabric Drop 8.000 _Aggregate Base, 8 inch, Modified Syd 462.000 Trenching, Modified 1,040.000 4020987 Sewer, CI IV, 12 inch, Tr Det B 30.000 Cyd Trench Undercut and Backfill 9.000 4030200 Dr Structure, 24 inch dia 3.000 _Dr Structure Cover, Type B, Modified 1.000 _Dr Structure Cover, Type K, Modified Ea 1.000 _Dr Structure, Adj, Case 1, Modified Ea 5.000 _Dr Structure, Temp Lowering, Modified 5.000 Ea Underdrain, Subgrade, 6 inch, Specia 30.000 _Yard Drain, Outlet Ending, Plastic Pipe _Yard Drain, Outlet Ending, Pop-up Apparatus 1.000 Cold Milling HMA Surface Syd 2,569.000 5010002 Syd HMA Surface, Rem 167.000 Hand Patching 5010025 Ton 19.000 HMA, LVSP 5010703 Ton 594.000 Flowable Fill Cyd 6027021 28.000 Syd Driveway, Nonreinf Conc, 6 inch, Modified 55.000 Curb and Gutter, Conc, Barrier or Mountable, Slip Form 1,127.000 Ft 8027001 _Driveway Opening, Conc, Det M, Modified 8027001 371.000 Curb Ramp Opening, Conc 8030030 Ft 6.000 _Detectable Warning Surface, Modified 5.000 Sidewalk Ramp, Conc, 6 inch, Modified 8037010 Sft 35.000 Pavt Mrkg, Thermopl, 6 inch, Crosswalk 8110197 107.000 Pavt Mrkg, Thermopl, 12 inch, Crosswalk 8110214 Ft 264.000 Pavt Mrkg, Thermopl, 24 inch, Stop Bar 8110218 24.000 Barricade, Type III, High Intensity, Double Sided, Lighted, Furn Ea 4.000 8120012 Barricade, Type III, High Intensity, Double Sided, Lighted, Oper 4.000 8120013 Ea Plastic Drum, Fluorescent, Furn 50.000 8120252 Ea Plastic Drum, Fluorescent, Oper 8120253 Ea 50.000 Sign, Type B, Temp, Prismatic, Furn 8120350 Sft 43.000 Sign, Type B, Temp, Prismatic, Oper Sft 43.000 Sign, Type B, Temp, Prismatic, Special, Furn Sft 8120352 8.000 Sign, Type B, Temp, Prismatic, Special, Oper Sft 8.000 8120353 Pedestrian Type II Barricade, Temp 3.000 8127050 Ea Temporary No Parking Sign 27.000 8127050 Ea Slope Restoration Syd 8167011 433.000 Gate Box, Adj, Case 1 8230431 Ea 1.000 HMA Surface, Around Structure Cover, Rem 1.000 8507050 Ea

ITB No. 4667 FILE No. 2021-004

	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		
2.0	R11-3a	Road Closed Local Traffic Only	12.500	25.000		
			TOTAL	51.000		

CASTING TABLE				
		FACILITY ID'S		
WATER	1	01-03034		
SANITARY	1	71–62693		
STORM	NA	NA		
WATER BOX	NA	NA		

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.
- 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.
- 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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ENGINEERING

CITY OF ANN ARBOR PUBLIC SERVICES 301 EAST HURON STREET, P.O. BOX 8647 ANN ARBOR, MICHIGAN 48107-8647 734-794-6410 www.a2gov.org REV. DESCRIPTION DATE DRAWN CHECKED Call b

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



2021

ACING PROJECT
RESTER ROAD

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SCALE: NTS

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		DATE	



SHEET No.

42 OF 58

PROJECT LOCATION: INDEPENDENCE BOULEVARD 2

ITB No. 4667 FILE No. 2021-004

	QUANTITIES		
tem 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	1,280.00
2047011	_Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	Syd	181.00
2057011	_Grading, Driveway Approach	Syd	168.00
2057011	_Grading, Sidewalk Ramp	Syd	1.00
2057011	_Machine Grading, Special	Syd	2,513.0
2057021	_Undercutting, Type IIA	Cyd	64.0
2080020	Erosion Control, Inlet Protection, Fabric Drop	Ea	8.0
3027011	_Aggregate Base, 8 inch, Modified	Syd	425.0
3077001	_Trenching, Modified	Ft	956.0
4020987	Sewer, CI IV, 12 inch, Tr Det B	Ft	30.0
4021260	Trench Undercut and Backfill	Cyd	9.0
4030200	Dr Structure, 24 inch dia	Ea	3.0
4037050	_Dr Structure Cover, Type K, Modified	Ea	4.0
4037050	_Dr Structure, Adj, Case 1, Modified	Ea	3.0
4037050	_Dr Structure, Temp Lowering, Modified	Ea	3.0
4047001	_Underdrain, Subgrade, 6 inch, Special	Ft	30.0
4047050	_Yard Drain, Outlet Ending, Pop-up Apparatus	Ea	1.0
5010002	Cold Milling HMA Surface	Syd	2,513.0
5010005	HMA Surface, Rem	Syd	142.0
5010025	Hand Patching	Ton	16.0
5010061	HMA Approach	Ton	67.0
5010703	HMA, LVSP	Ton	447.0
6027021	_Flowable Fill	Cyd	24.0
8017011	_Driveway, Nonreinf Conc, 6 inch, Modified	Syd	168.0
8017011	_Driveway, Nonreinf Conc, 8 inch, Modified	Syd	0.0
8027001	_Curb and Gutter, Conc, Barrier	Ft	32.0
8027001	_Driveway Opening, Conc, Det M, Modified	Ft	280.0
8030030	Curb Ramp Opening, Conc	Ft	12.0
8037001		Ft	10.0
8037010	Sidewalk Ramp, Conc, 6 inch, Modified	Sft	11.0
8110197	Pavt Mrkg, Thermopl, 6 inch, Crosswalk	Ft	111.0
8110218	Pavt Mrkg, Thermopl, 24 inch, Stop Bar	Ft	24.0
8120012	Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	Ea	2.0
8120013	Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	Ea	2.0
8120252	Plastic Drum, Fluorescent, Furn	Ea	24.0
8120253	Plastic Drum, Fluorescent, Oper	Ea	24.0
8120350	Sign, Type B, Temp, Prismatic, Furn	Sft	61.0
8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	61.0
8120352	Sign, Type B, Temp, Prismatic, Special, Furn	Sft	16.0
8120353	Sign, Type B, Temp, Prismatic, Special, Oper	Sft	16.0
8127050	Pedestrian Type II Barricade, Temp	+ +	
	Temporary No Parking Sign	Ea	6.0
8127050	Temporary No Parking SigntSlope Restoration	Ea Syd	21.0
8167011	_olope ivesiolation	Syu	340.0

	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		

CASTING TABLE				
		FACILITY ID'S		
WATER	NA	NA		
SANITARY	NA	NA		
STORM	NA	NA		
WATER BOX	NA	NA		

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.
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ENGINEERING

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PROJECT LOCATION: MANCHESTER ROAD

ITB No. 4667 FILE No. 2021-004

	QUANTITIES		T -
Item Code	Item Description	Unit	Quantity
2030011	Dr Structure, Rem	Ea	11.00
2030015	Sewer, Rem, Less than 24 inch	Ft	110.00
2047001	_Curb, Gutter, and Curb and Gutter, Any Type, Rem	Ft	5,942.00
2047011	_Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	Syd	862.00
2057011	_Grading, Driveway Approach	Syd	570.00
2057011	_Grading, Sidewalk	Syd	289.00
2057011	_Grading, Sidewalk Ramp	Syd	125.00
2057011	_Machine Grading, Special	Syd	11,194.00
2057021	_Undercutting, Type IIA	Cyd	349.00
2080020	Erosion Control, Inlet Protection, Fabric Drop	Ea	32.00
2080036	Erosion Control, Silt Fence	Ft	470.00
3027011	_Aggregate Base, 8 inch, Modified	Syd	1,885.00
3077001	_Trenching, Modified	Ft	4,241.00
4020987	Sewer, CI IV, 12 inch, Tr Det B	Ft	110.00
4021260	Trench Undercut and Backfill	Cyd	33.00
4030200	Dr Structure, 24 inch dia	Ea	11.00
4030280	Dr Structure, Adj, Add Depth	Ft	1.00
4037050	_Dr Structure Cover, Type B, Modified	Ea	9.00
4037050	_Dr Structure Cover, Type K, Modified	Ea	28.00
4037050	_Dr Structure, Adj, Case 1, Modified	Ea	31.00
4037050	_Dr Structure, Adj, Case 2, Modified	Ea	1.00
4037050	_Dr Structure, Cleaning, Modified	Ea	1.00
4037050	_Dr Structure, Temp Lowering, Modified	Ea	14.00
4047001	_Underdrain, Subgrade, 6 inch, Special	Ft	110.00
4047001	_Yard Drain, Outlet Ending, Plastic Pipe	Ft	2.00
5010002	Cold Milling HMA Surface	Syd	11,194.00
5010005	HMA Surface, Rem	Syd	667.00
5010025	Hand Patching	Ton	76.00
5010061	HMA Approach	Ton	83.00
5010703	HMA, LVSP	Ton	2,422.00
5017011	Cold Milling for Concrete Curb and Gutter Reveal	Syd	142.00
6027021	Flowable Fill	Cyd	110.00
8017011	Driveway, Nonreinf Conc, 6 inch, Modified	Syd	459.00
8017011	Driveway, Nonreinf Conc, 8 inch, Modified	Syd	111.00
8027001			4,640.00
	Driveway Opening, Conc, Det M, Modified	Ft	1,302.00
8027001	Curb Ramp Opening, Conc	Ft	·
8030030	Detectable Warning Surface, Modified	Ft	102.00
8037001		Ft	85.00
8037010	_Sidewalk Ramp, Conc, 6 inch, Modified	Sft	1,127.00
8037010	_Sidewalk, Conc, 4 inch, Modified	Sft	2,410.00
8037010	_Sidewalk, Conc, 6 inch, Modified	Sft _	195.00
8110092	Pavt Mrkg, Polyurea, 4 inch, Yellow	Ft	826.00
8110197	Pavt Mrkg, Thermopl, 6 inch, Crosswalk	Ft	702.00
8110214	Pavt Mrkg, Thermopl, 12 inch, Crosswalk	Ft	80.00
8110218	Pavt Mrkg, Thermopl, 24 inch, Stop Bar	Ft	116.0
8120012	Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	Ea	10.0
8120013	Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	Ea	10.00
8120035	Channelizing Device, 42 inch, Fluorescent, Furn	Ea	28.00
8120036	Channelizing Device, 42 inch, Fluorescent, Oper	Ea	28.0

	QUANTITIES				
Item Code	ode Item Description		Quantity		
8120141	Lighted Arrow, Type C, Oper	Ea	1.000		
8120252	Plastic Drum, Fluorescent, Furn	Ea	191.000		
8120253	Plastic Drum, Fluorescent, Oper	Ea	191.000		
8120310	Sign Cover	Ea	2.000		
8120330	Sign, Portable, Changeable Message, Furn	Ea	2.000		
8120331	Sign, Portable, Changeable Message, Oper	Ea	2.000		
8120350	Sign, Type B, Temp, Prismatic, Furn	Sft	185.000		
8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	185.000		
8120352	Sign, Type B, Temp, Prismatic, Special, Furn	Sft	48.000		
8120353	Sign, Type B, Temp, Prismatic, Special, Oper	Sft	48.000		
8127050	_Pedestrian Type II Barricade, Temp	Ea	13.000		
8127050	_Temporary No Parking Sign	Ea	99.00		
8167011	_Slope Restoration	Syd	939.00		
8230431	Gate Box, Adj, Case 1	Ea	1.00		
8507050	_HMA Surface, Around Structure Cover, Rem	Ea	4.00		

QUANTITIES					
	Sign, Type B, Temp, Prismatic & *Sign, Type B, Temp, Prismatic, Special				
Quantity	Sign Code	Description	Area (sft)	Total Area (Sft)	
12.0	*D3-1	Street Name Sign	4.000	48.000	
2.0	G20-2	End Road Work	4.500	9.000	
2.0	W3-5B	Reduce Speed Zone	9.000	18.000	
1.0	W4-2R	Lane Ends / Right	9.000	9.000	
12.0	W20-1	Road Work Ahead Sign	9.000	108.000	
1.0	W20-5R	Right Lane Closed Ahead	9.000	9.000	
2.0	R5-18C	Work Zone Begins	16.000	32.000	
			TOTAL	233.000	

CASTING TABLE				
		FACILITY ID'S		
WATER	5	01-01225/ 01-01229/ 01-01230/ 01-01234/ 01-01233		
SANITARY	4	71-61083/ 71-61696/ 71-61704/ 71-61671		
STORM	1	92-50696		
WATER BOX	NA	NA		

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.
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- 14. REMOVE ALL TRAFFIC CONTROL DEVICES. REMOVE MISS DIG FLAGS.

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ENGINEERING

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



BOR PROJECT - 2021

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MANCHESTER ROAL
SHIRSET COVER SHE

SERVICES - CITY STREET RES

SCALE: NTS

ON THE PROPERTY OF THE PROPERTY OF



PROJECT LOCATION: TOWNER BLVD

ITB No. 4667 FILE No. 2021-004

QUANTITIES It are Description Countities Oughtitus				
Item Code	Item Description	Unit	Quantity	
2030011	Dr Structure, Rem	Ea _	11.000	
2030015	Sewer, Rem, Less than 24 inch	Ft	110.000	
2047001	_Curb, Gutter, and Curb and Gutter, Any Type, Rem	Ft	590.000	
2047011	_Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	Syd	77.000	
2057011	_Grading, Driveway Approach	Syd	22.000	
2057011	_Grading, Sidewalk Ramp	Syd	47.000	
2080020	Erosion Control, Inlet Protection, Fabric Drop	Ea	33.000	
4020987	Sewer, Cl IV, 12 inch, Tr Det B	Ft	110.000	
4021260	Trench Undercut and Backfill	Cyd	33.000	
4030200	Dr Structure, 24 inch dia	Ea	11.000	
4037050	_Dr Structure Cover, Type K, Modified	Ea	15.000	
4037050	_Dr Structure, Adj, Case 1, Modified	Ea	4.000	
4047001	_Underdrain, Subgrade, 6 inch, Special	Ft	110.000	
5010002	Cold Milling HMA Surface	Syd	3,160.000	
5010005	HMA Surface, Rem	Syd	131.000	
5010025	Hand Patching	Ton	15.000	
5010061	HMA Approach	Ton	38.000	
5010703	HMA, LVSP	Ton	328.000	
5017011	_Raised Intersection, HMA	Syd	215.000	
6027011	_Raised Intersection, Conc	Syd	215.000	
8017011	_Driveway, Nonreinf Conc, 6 inch, Modified	Syd	22.000	
8027001	_Curb and Gutter, Conc, Barrier	Ft	414.000	
8027001	_Driveway Opening, Conc, Det M, Modified	Ft	152.000	
8030030	Curb Ramp Opening, Conc	Ft	42.000	
8037001	_Detectable Warning Surface, Modified	Ft	35.000	
8037010	_Sidewalk Ramp, Conc, 6 inch, Modified	Sft	426.000	
8110197	Pavt Mrkg, Thermopl, 6 inch, Crosswalk	Ft	260.000	
8110218	Pavt Mrkg, Thermopl, 24 inch, Stop Bar	Ft	50.000	
8117050	_Pavt Mrkg, Ovly Cold Plastic, Speed Hump Chevron, White	Ea	24.000	
8117050	_Pavt Mrkg, Polyurea, Speed Hump Chevron, White	Ea	24.000	
8117050	_Pavt Mrkg, Thermopl, Speed Hump Chevron, White	Ea	24.000	
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	
8120252	Plastic Drum, Fluorescent, Furn	Ea	49.000	
8120253	Plastic Drum, Fluorescent, Oper	Ea	49.000	
8120350	Sign, Type B, Temp, Prismatic, Furn	Sft	181.000	
8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	181.000	
8120352	Sign, Type B, Temp, Prismatic, Special, Furn	Sft	36.000	
8120353	Sign, Type B, Temp, Prismatic, Special, Oper	Sft	36.000	
8127050	_Pedestrian Type II Barricade, Temp	Ea	6.000	
8127050		Ea	30.000	
8167011	Slope Restoration	Syd	180.000	
8230431	Gate Box, Adj, Case 1	Ea	2.000	
320070 I	HMA Surface, Around Structure Cover, Rem		35.000	

	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		
9.0	W20-1	Road Work Ahead Sign	9.000	81.000		
8.0	R11-3a	Road Closed Local Traffic Only	12.500	100.000		
			TOTAL	217.000		

	CASTING TABLE	
		FACILITY ID'S
WATER	NA	NA
SANITARY	NA	NA
STORM	NA	NA
WATER BOX	NA	NA

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
- 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:

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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ENGINEERING

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



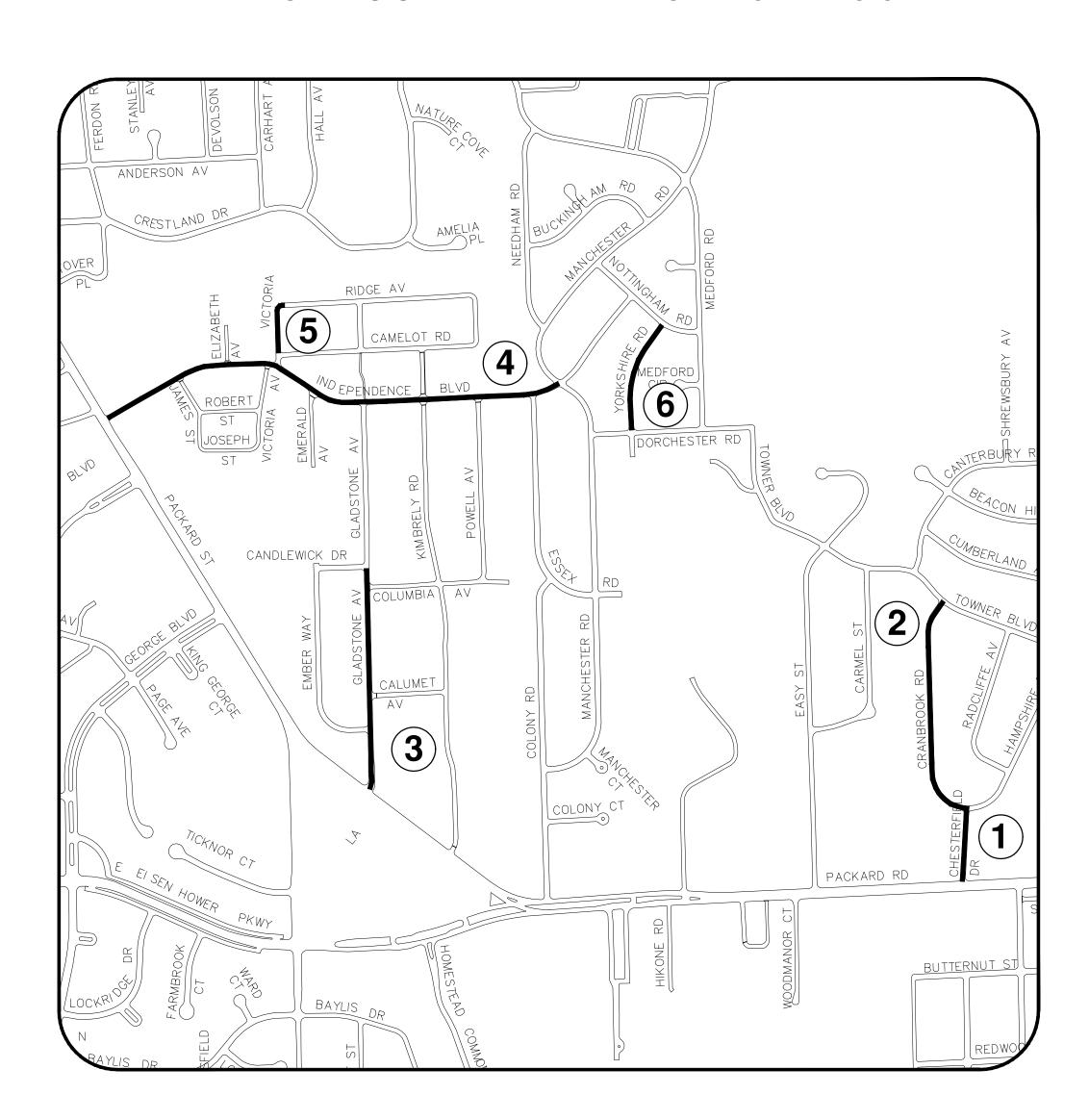
SHEET No.



STREET RESURFACING PROJECT - 2021 PHASE 2B

ITB No. 4667 FILE No. 2021-004





SHEET INDEX

SHEET NO.	TITLE	MAP INDEX NO. (THIS SHEET)
46	CHESTERFIELD STREET	1
47	CRANBROOK ROAD	2
48	GLADSTONE AVE.	3
49	INDEPENDENCE BLVD 1	4
50	VICTORIA AVE	5
51	YORKSHIRE ROAD	6

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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SHEET No.



PROJECT LOCATION: CHESTERFIELD STREET

ITB No. 4667 FILE No. 2021-004

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	140.000
2047001	_Exploratory Excavation, Vertical	Ft	2.000
2047011	_Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	Syd	31.000
2057011	_Grading, Sidewalk	Syd	19.000
2057011	_Grading, Sidewalk Ramp	Syd	12.000
2080020	Erosion Control, Inlet Protection, Fabric Drop	Ea	3.000
4020987	Sewer, Cl IV, 12 inch, Tr Det B	Ft	10.000
4021260	Trench Undercut and Backfill	Cyd	3.000
4030200	Dr Structure, 24 inch dia	Ea	1.000
4037050	_Dr Structure Cover, Type K, Modified	Ea	1.000
4047001	_Underdrain, Subgrade, 6 inch, Special	Ft	10.000
5010002	Cold Milling HMA Surface	Syd	1,228.000
5010005	HMA Surface, Rem	Syd	31.000
5010025	Hand Patching	Ton	4.000
5010703	HMA, LVSP	Ton	107.000
8027001	_Curb and Gutter, Conc, Barrier	Ft	123.000
8027001	_Driveway Opening, Conc, Det M, Modified	Ft	5.000
8030030	Curb Ramp Opening, Conc	Ft	12.000
8037001	_Detectable Warning Surface, Modified	Ft	10.000
8037010	_Sidewalk Ramp, Conc, 6 inch, Modified	Sft	107.000
8037010	_Sidewalk, Conc, 4 inch, Modified	Sft	175.000
8110197	Pavt Mrkg, Thermopl, 6 inch, Crosswalk	Ft	105.000
8110218	Pavt Mrkg, Thermopl, 24 inch, Stop Bar	Ft	13.000
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
8120252	Plastic Drum, Fluorescent, Furn	Ea	6.000
8120253	Plastic Drum, Fluorescent, Oper	Ea	6.000
8120350	Sign, Type B, Temp, Prismatic, Furn	Sft	153.000
8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	153.000
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	13.000
8167011	_Slope Restoration	Syd	25.000
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)		
4.0	*D3-1	Street Name Sign	4.000	16.000		
2.0	G20-2	End Road Work	4.500	9.000		
2.0	W3-5B	Reduce Speed Zone	9.000	18.000		
1.0	W4-2R	Lane Ends / Right	9.000	9.000		
4.0	W20-1	Road Work Ahead Sign	9.000	36.000		
1.0	W20-5R	Right Lane Closed Ahead	9.000	9.000		
2.0	R2-1	Speed Limit	7.500	15.000		
2.0	R5-18C	Work Zone Begins	16.000	32.000		
2.0	R11-3a	Road Closed Local Traffic Only	12.500	25.000		
			TOTAL	169.000		

CASTING TABLE				
	FACILITY ID'S			
WATER	NA	NA		
SANITARY	NA	NA		
STORM	NA	NA		
WATER BOX	NA	NA		

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 PLAN 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
- 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 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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ENGINEERING

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



- 2021

ANN ARBOR
FACING PROJECTERFIELD STREET

- CITY OF ANN T RESURFACI

SERVICES - CIT STREET RI

ERING - PUBLIC &

ENGINEERING - |
SCALE : NTS

SCALE SCALE



PROJECT LOCATION: CRANBROOK ROAD

ITB No. 4667 FILE No. 2021-004

Item Code	QUANTITIES 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	1,719.000
2047011	Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	Syd	474.000
2057011	Grading, Driveway Approach	Syd	432.000
2057011	Grading, Sidewalk	Syd	28.000
2057011	Grading, Sidewalk Ramp	Syd	12.000
2057011	Machine Grading, Special	Syd	3,755.000
2057021	Undercutting, Type IIA	Cyd	125.000
2080020	Erosion Control, Inlet Protection, Fabric Drop	Ea	11.000
4020987	Sewer, Cl IV, 12 inch, Tr Det B	Ft	60.000
4021260	Trench Undercut and Backfill	Cyd	18.000
4030200	Dr Structure, 24 inch dia	Ea	6.000
4037050	_Dr Structure Cover, Type B, Modified	Ea	12.000
4037050	Dr Structure Cover, Type D, Modified (ADA Cover/Grate)	Ea	1.000
4037050		Ea	6.000
4037050	Dr Structure, Adj, Case 1, Modified	Ea	14.000
4037050	Dr Structure, Temp Lowering, Modified	Ea	14.000
4047001	Underdrain, Subgrade, 6 inch, Special	Ft	60.000
5010002	Cold Milling HMA Surface	Syd	3,755.000
5010005	HMA Surface, Rem	Syd	191.000
5010025	Hand Patching	Ton	22.000
5010703	HMA, LVSP	Ton	434.000
6027021	Flowable Fill	Cyd	32.000
8017011		Syd	432.000
8027001	Curb and Gutter, Conc, Barrier	Ft	954.000
8027001	Driveway Opening, Conc, Det M, Modified	Ft	759.000
8030030	Curb Ramp Opening, Conc	Ft	12.000
8037001	Detectable Warning Surface, Modified	Ft	10.000
8037010	Sidewalk Ramp, Conc, 6 inch, Modified	Sft	110.000
8037010	Sidewalk, Conc, 4 inch, Modified	Sft	131.000
8037010	Sidewalk, Conc, 6 inch, Modified	Sft	125.000
8110197	Pavt Mrkg, Thermopl, 6 inch, Crosswalk	Ft	58.000
8120012	Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	Ea	3.000
8120013	Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	Ea	3.000
8120252	Plastic Drum, Fluorescent, Furn	Ea	75.000
8120253	Plastic Drum, Fluorescent, Oper	Ea	75.000
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	4.000
8127050	Temporary No Parking Sign	Ea	39.000
8167011	Slope Restoration	Syd	696.000
	Gate Box, Adj, Case 1	Ea	1.000
8230431	J Gale Dox, Auj, Gase 1		

	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		

	CASTING TABLE	
		FACILITY ID'S
WATER	NA	NA
SANITARY	8	71-62512/71-62511/ 71-62510/ 71-62509/ 71-62508/ 71-62507/ 71-62538/ 71-62506
STORM	4	92-50882/ 92-50881/ 92-50880/ 92-50879/
WATER BOX	1	01-08873

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
- 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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SHEET No.



PROJECT LOCATION: GLADSTONE AVENUE

ITB No. 4667 FILE No. 2021-004

Item Code Item Description Unit Quantity				
Item Code	Curb, Gutter, and Curb and Gutter, Any Type, Rem	Unit		
2047001		Ft	548.000	
2047011	_Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	Syd	41.000	
2057011	_Grading, Driveway Approach	Syd	3.000	
2057011	_Grading, Sidewalk	Syd	28.000	
2057011	_Grading, Sidewalk Ramp	Syd	12.000	
2057011	_Machine Grading, Special	Syd	4,155.000	
2080020	Erosion Control, Inlet Protection, Fabric Drop	Ea	14.000	
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	2.000	
5010002	Cold Milling HMA Surface	Syd	4,155.000	
5010005	HMA Surface, Rem	Syd	61.000	
5010025	Hand Patching	Ton	7.000	
5010061	HMA Approach	Ton	32.000	
5010703	HMA, LVSP	Ton	337.000	
5017011	_Cold Milling HMA Surface, Modified	Syd	77.777	
6027021	_Flowable Fill	Cyd	10.000	
8017011	_Driveway, Nonreinf Conc, 6 inch, Modified	Syd	3.000	
8027001	_Curb and Gutter, Conc, Mountable	Ft	540.000	
8030030	Curb Ramp Opening, Conc	Ft	18.000	
8037001	_Detectable Warning Surface, Modified	Ft	15.000	
8037010	_Sidewalk Ramp, Conc, 6 inch, Modified	Sft	108.000	
8037010	_Sidewalk, Conc, 4 inch, Modified	Sft	250.000	
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	
8120035	Channelizing Device, 42 inch, Fluorescent, Furn	Ea	28.000	
8120036	Channelizing Device, 42 inch, Fluorescent, Oper	Ea	28.000	
8120141	Lighted Arrow, Type C, Oper	Ea	1.000	
8120350	Sign, Type B, Temp, Prismatic, Furn	Sft	224.000	
8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	224.000	
8120352	Sign, Type B, Temp, Prismatic, Special, Furn	Sft	28.000	
8120353	Sign, Type B, Temp, Prismatic, Special, Oper	Sft	28.000	
8127050	_Temporary No Parking Sign	Ea	40.000	
8167011	Slope Restoration	Syd	150.000	
8507050	HMA Surface, Around Structure Cover, Rem	Ea	7.000	

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	
2.0	G20-2	End Road Work	4.500	9.000	
1.0	W1-4R	Reverse Curve (Right)	9.000	9.000	
1.0	W1-6L	Shift arrow Left	9.000	9.000	
1.0	W1-6R	Shift arrow Right	9.000	9.000	
2.0	W3-5B	Reduce Speed Zone	9.000	18.000	
7.0	W20-1	Road Work Ahead Sign	9.000	63.000	
2.0	R5-18C	Work Zone Begins	16.000	32.000	
6.0	R11-3a	Road Closed Local Traffic Only	12.500	75.000	
			TOTAL	252.000	

CASTING TABLE				
WATER	NA	NA		
SANITARY	NA	NA		
STORM	NA	NA		
WATER BOX	NA	NA		

CONSTRUCTION METHOD AND SEQUENCING

- INSTALL ANY PROPOSED STORM SEWER, AND UNDERDRAIN AS SHOWN ON THE PLANS, AND AS
- OWER ALL 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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- 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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ENGINEERING

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



SHEET No. 48 OF 58



PROJECT LOCATION: INDEPENDENCE BOULEVARD 1

	QUANTITIES		
Item Code	Item Description	Unit	Quantity
2030011	Dr Structure, Rem	Ea	12.000
2030011	Sewer, Rem, Less than 24 inch	Ft	120.000
2047001	_Curb, Gutter, and Curb and Gutter, Any Type, Rem	Ft	627.000
2047011	_Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	Syd	24.000
2057011	_Grading, Driveway Approach	Syd	17.000
2057011	_Grading, Sidewalk Ramp	Syd	7.000
2080020	Erosion Control, Inlet Protection, Fabric Drop	Ea	35.000
4020987	Sewer, Cl IV, 12 inch, Tr Det B	Ft	120.000
4021260	Trench Undercut and Backfill	Cyd	36.000
4030200	Dr Structure, 24 inch dia	Ea	12.000
4037050	_Dr Structure Cover, Type B, Modified	Ea	3.000
4037050	_Dr Structure Cover, Type K, Modified	Ea	14.000
4037050	Dr Structure, Adj, Case 1, Modified	Ea	5.000
4047001	Underdrain, Subgrade, 6 inch, Special	Ft	120.000
4047001	Yard Drain, Outlet Ending, Plastic Pipe	Ft	1.000
4047001	Yard Drain, Outlet Ending, Pop-up Apparatus	Ea	1.000
5010002	Cold Milling HMA Surface	Syd	9,203.000
5010002	HMA Surface, Rem	Syd	139.000
5010005	Hand Patching	Ton	16.000
5010023	HMA Approach	Ton	67.000
5010703	HMA, LVSP	Ton	748.000
5010703	Raised Intersection, HMA	Syd	343.000
5017011	Speed Hump, HMA	Syd	
6027011	Raised Intersection, Conc	Syd	194.000 343.000
6027011	Speed Hump, Conc	Syd	194.000
8017011	Driveway, Nonreinf Conc, 6 inch, Modified	Syd	194.000
8027001	Curb and Gutter, Conc, Barrier	Ft	435.000
8027001	Driveway Opening, Conc, Det M, Modified	Ft	186.000
8030030	Curb Ramp Opening, Conc	Ft	6.000
8037001	Detectable Warning Surface, Modified	Ft	5.000
8037001	_Sidewalk Ramp, Conc, 6 inch, Modified	Sft	63.000
8110197	Pavt Mrkg, Thermopl, 6 inch, Crosswalk	Ft	162.000
8110218	Pavt Mrkg, Thermopl, 24 inch, Stop Bar	Ft	74.000
8120012	Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	Ea	12.000
8120013	Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	Ea	12.000
8120035	Channelizing Device, 42 inch, Fluorescent, Furn	Ea	28.000
8120036	Channelizing Device, 42 inch, Fluorescent, Oper	Ea	28.000
8120141	Lighted Arrow, Type C, Oper	Ea	1.000
8120252	Plastic Drum, Fluorescent, Furn	Ea	54.000
8120253	Plastic Drum, Fluorescent, Oper	Ea	54.000
8120350	Sign, Type B, Temp, Prismatic, Furn	Sft	349.000
8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	69.000
8120352	Sign, Type B, Temp, Prismatic, Special, Furn	Sft	44.000
8120353	Sign, Type B, Temp, Prismatic, Special, Oper	Sft	44.000
8127050	Pedestrian Type II Barricade, Temp	Ea	2.000
8127050	Temporary No Parking Sign	Еа	91.000
8167011	_Slope Restoration	Syd	135.000
8217050	_Monument Box, Adj	Ea	1.000
8230431	Gate Box, Adj, Case 1	Еа	2.000
8507050	HMA Surface, Around Structure Cover, Rem	Еа	33.000
0307030	1	⊏d	33.000

ITB No. 4667 FILE No. 2021-004

	QUANTITIES					
	Sign, Type B, Temp, Prismatic & *Sign, Type B, Temp, Prismatic, Special					
Quantity	Sign Code	Description	Area (sft)	Total Area (Sft)		
11.0	*D3-1	Street Name Sign	4.000	44.000		
2.0	G20-2	End Road Work	4.500	9.000		
1.0	W1-4L	Reverse Curve (Left)	9.000	9.000		
1.0	W1-4L	Reverse Curve (Right)	9.000	9.000		
2.0	W1-6L	Shift arrow Left	9.000	18.000		
2.0	W1-6R	Shift arrow Right	9.000	18.000		
2.0	W3-5B	Reduce Speed Zone	9.000	18.000		
11.0	W20-1	Road Work Ahead Sign	9.000	99.000		
1.0	W20-5A	Center Lane Closed Ahead	9.000	9.000		
2.0	R2-1	Speed Limit	7.500	15.000		
2.0	R5-18C	Work Zone Begins	16.000	32.000		
9.0	R11-3a	Road Closed Local Traffic Only	12.500	113.000		
			TOTAL	393.000		

CASTING TABLE				
WATER	NA	NA		
SANITARY	NA	NA		
STORM	1	92-50667		
WATER BOX	NA	NA		

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:

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ENGINEERING

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



SHEET No.



PROJECT LOCATION: VICTORIA AVENUE

ITB No. 4667 FILE No. 2021-004

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	178.000		
2047011	_Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	Syd	26.000		
2057011	_Grading, Driveway Approach	Syd	26.000		
2057011	_Machine Grading, Special	Syd	820.000		
2057021	_Undercutting, Type IIA	Cyd	27.000		
2080020	Erosion Control, Inlet Protection, Fabric Drop	Ea	8.000		
4020987	Sewer, Cl IV, 12 inch, Tr Det B	Ft	20.000		
4021260	Trench Undercut and Backfill	Cyd	6.000		
4030200	Dr Structure, 24 inch dia	Ea	2.000		
4037050	_Dr Structure Cover, Type B, Modified	Ea	1.000		
4037050	_Dr Structure, Adj, Case 1, Modified	Ea	5.000		
4037050	_Dr Structure, Temp Lowering, Modified	Ea	5.000		
4047001	_Underdrain, Subgrade, 6 inch, Special	Ft	20.000		
5010002	Cold Milling HMA Surface	Syd	820.000		
5010005	HMA Surface, Rem	Syd	20.000		
5010025	Hand Patching	Ton	2.000		
5010703	HMA, LVSP	Ton	190.000		
6027021	_Flowable Fill	Cyd	3.000		
8017011	_Driveway, Nonreinf Conc, 6 inch, Modified	Syd	26.000		
8027001	_Curb and Gutter, Conc, Barrier	Ft	47.000		
8027001	_Driveway Opening, Conc, Det M, Modified	Ft	131.000		
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		
8120252	Plastic Drum, Fluorescent, Furn	Ea	13.000		
8120253	Plastic Drum, Fluorescent, Oper	Ea	13.000		
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	8.000		
8120353	Sign, Type B, Temp, Prismatic, Special, Oper	Sft	8.000		
8127050	_Temporary No Parking Sign	Ea	10.000		
8167011	_Slope Restoration	Syd	25.000		

	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		
2.0	R11-3a	Road Closed Local Traffic Only	12.500	25.000		
			TOTAL	51.000		

CASTING TABLE				
	FACILITY ID'S			
WATER	1	01-02095		
SANITARY	NA	NA		
STORM	NA	NA		
WATER BOX	NA	NA		

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

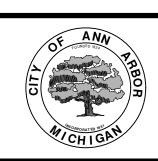
- PERFORM UNDERCUTS AND/OR BASE REPAIRS AS DIRECTED BY THE ENGINEER
- GRADE, SHAPE, AND RE-COMPACT THE EXISTING ROAD BASE AS REQUIRED, AND AS DIRECTED BY THE
- 9. PAVE 2 INCHES OF THE BITUMINOUS MIX AS SPECIFIED OR DIRECTED, AS THE LEVELING COURSE, IN
- 10. ADJUST ALL STRUCTURE COVERS, MONUMENT BOXES, 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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NOTES:

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ENGINEERING

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SHEET No.



PROJECT LOCATION: YORKSHIRE ROAD

ITB No. 4667 FILE No. 2021-004

QUANTITIES It on the Description Countity					
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	1,324.000		
2047011	_Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	Syd	173.000		
2057011	_Grading, Driveway Approach	Syd	191.000		
2057011	_Grading, Sidewalk Ramp	Syd	14.000		
2057011	_Machine Grading, Special	Syd	2,040.000		
2057021	_Undercutting, Type IIA	Cyd	68.000		
2080020	Erosion Control, Inlet Protection, Fabric Drop	Ea	6.000		
3027011	_Aggregate Base, 8 inch, Modified	Syd	437.000		
3077001	_Trenching, Modified	Ft	983.000		
4020987	Sewer, Cl IV, 12 inch, Tr Det B	Ft	30.000		
4021260	Trench Undercut and Backfill	Cyd	9.000		
4030200	Dr Structure, 24 inch dia	Ea	3.000		
4037050	_Dr Structure Cover, Type B, Modified	Ea	1.000		
4037050	_Dr Structure Cover, Type K, Modified	Ea	4.000		
4037050	_Dr Structure, Adj, Case 1, Modified	Ea	3.000		
4037050	_Dr Structure, Temp Lowering, Modified	Ea	2.000		
4047001	_Underdrain, Subgrade, 6 inch, Special	Ft	30.000		
4047001	_Yard Drain, Outlet Ending, Plastic Pipe	Ft	1.000		
5010002	Cold Milling HMA Surface	Syd	2,040.000		
5010005	HMA Surface, Rem	Syd	147.000		
5010025	Hand Patching	Ton	17.000		
5010703	HMA, LVSP	Ton	472.000		
6027021	_Flowable Fill	Cyd	25.000		
8017011	_Driveway, Nonreinf Conc, 6 inch, Modified	Syd	191.000		
8027001	Curb and Gutter, Conc, Barrier	Ft	1,040.000		
8027001	Driveway Opening, Conc, Det M, Modified	Ft	285.000		
8030030	Curb Ramp Opening, Conc	Ft	24.000		
8037001	Detectable Warning Surface, Modified	Ft	20.000		
8037010	Sidewalk Ramp, Conc, 6 inch, Modified	Sft	123.000		
8037010		Sft	5.000		
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		
8120252	Plastic Drum, Fluorescent, Furn	Ea	44.000		
8120253	Plastic Drum, Fluorescent, Oper	Ea	44.000		
8120350	Sign, Type B, Temp, Prismatic, Furn	Sft	43.000		
8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	43.000		
8120351	Sign, Type B, Temp, Prismatic, Special, Furn	Sft	8.000		
8120353	Sign, Type B, Temp, Prismatic, Special, Oper	Sft	8.000		
	_Pedestrian Type II Barricade, Temp				
8127050 8127050	Temporary No Parking Sign	Ea	4.000		
	Slope Restoration	Ea Syd	21.000		
8167011	_Glope (Costoration	Syu	335.000		

	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		
2.0	R11-3a	Road Closed Local Traffic Only	12.500	25.000		
			TOTAL	51.000		

	CASTING TABLE	
		FACILITY ID'S
WATER	NA	NA
SANITARY	NA	NA
STORM	NA	NA
WATER BOX	NA	NA

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.
- 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.

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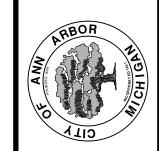
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ENGINEERING

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



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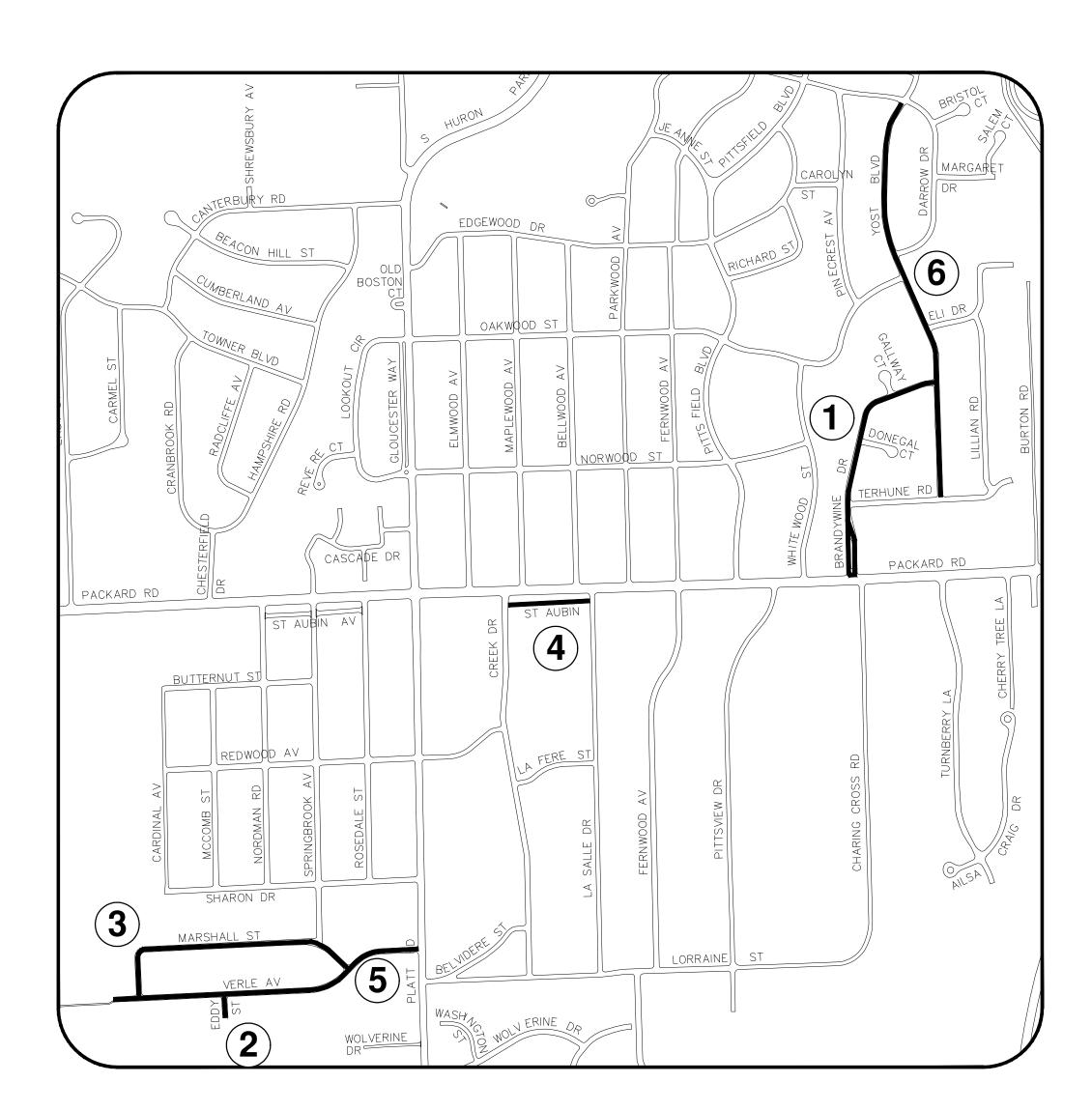
DRAWING NO.



STREET RESURFACING PROJECT - 2021 PHASE 3

ITB No. 4667 FILE No. 2021-004





SHEET INDEX

SHEET NO.	TITLE	MAP INDEX NO. (THIS SHEET)
53	BRANDYWINE STREET	1
54	EDDY STREET	2
55	MARSHALL STREET	3
56	SAINT AUBIN AVE	4
57	VERLE AVE	5
58	YOST BLVD	6

NOTE

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PHASE 3

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EERING - PUBLIC

SCALE: NTS

DRAWING No.



PROJECT LOCATION: BRANDYWINE STREET

QUANTITIES Item Description Quantity Item Code Unit Dr Structure, Rem 3.000 Sewer, Rem, Less than 24 inch Ft 30.000 Syd Pavt. Rem 17.000 _Curb, Gutter, and Curb and Gutter, Any Type, Rem 424.000 Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem Syd 173.000 _Grading, Driveway Approach Syd 50.000 Syd _Grading, Sidewalk 89.000 Syd _Grading, Sidewalk Ramp 48.000 Syd 6,587.000 _Machine Grading, Special Cyd _Undercutting, Type IIA 214.000 Erosion Control, Inlet Protection, Fabric Drop 15.000 4020987 Sewer, CI IV, 12 inch, Tr Det B Ft 30.000 Cyd Trench Undercut and Backfill 9.000 Dr Structure, 24 inch dia 3.000 _Dr Structure Cover, Type B, Modified 7.000 _Dr Structure Cover, Type K, Modified 7.000 Dr Structure, Adj, Case 1, Modified Ea 21.000 Dr Structure, Temp Lowering, Modified Ea 19.000 Underdrain, Subgrade, 6 inch, Special 30.000 Cold Milling HMA Surface Syd 6,587.000 HMA Surface, Rem Syd 5010005 239.000 Hand Patching 5010025 Ton 5.000 **HMA Approach** 5010061 Ton 22.000 1,485.000 HMA, LVSP 5010703 Ton _Cold Milling for Concrete Curb and Gutter Reveal Syd 5017011 514.000 HMA, Wedging, 36A 5017031 Ton 11.000 Flowable Fill Cyd 6027021 8.000 Driveway, Nonreinf Conc, 6 inch, Modified Syd 33.000 8017011 Curb and Gutter, Conc, Barrier 8027001 Ft 227.000 Driveway Opening, Conc, Det M, Modified 8027001 Ft 118.000 Curb Ramp Opening, Conc 60.000 _Detectable Warning Surface, Modified 8037001 50.000 Sidewalk Ramp, Conc, 6 inch, Modified Sft 8037010 430.000 Sidewalk, Conc, 4 inch, Modified Sft 805.000 8037010 Pavt Mrkg, Thermopl, 6 inch, Crosswalk 8110197 279.000 Pavt Mrkg, Thermopl, 24 inch, Stop Bar 8110218 15.000 Ft Barricade, Type III, High Intensity, Double Sided, Lighted, Furn 3.000 8120012 Ea Barricade, Type III, High Intensity, Double Sided, Lighted, Oper Ea 3.000 8120013 Plastic Drum, Fluorescent, Furn 8120252 Ea 19.000 Plastic Drum, Fluorescent, Oper 8120253 Ea 19.000 Sign, Type B, Temp, Prismatic, Furn Sft 8120350 198.000 Sign, Type B, Temp, Prismatic, Oper Sft 8120351 198.000 Sign, Type B, Temp, Prismatic, Special, Furn Sft 8.000 8120352 Sign, Type B, Temp, Prismatic, Special, Oper 8.000 8120353 Sft Temporary No Parking Sign 51.000 8127050 Ea Slope Restoration 8167011 Syd 25.000 Gate Box, Adj, Case 1 8230431 Ea 2.000

ITB No. 4667 FILE No. 2021-004

	QUANTITIES Sign, Type B, Temp, Prismatic & *Sign, Type B, Temp, Prismatic, Special						
Quantity	Quantity Sign Code Description						
2.0	*D3-1	Street Name Sign	4.000	8.000			
2.0	G20-2	End Road Work	4.500	9.000			
2.0	W3-5B	Reduce Speed Zone	9.000	18.000			
1.0	W4-2R	Lane Ends / Right	9.000	9.000			
5.0	W20-1	Road Work Ahead Sign	9.000	45.000			
1.0	W20-5R	Right Lane Closed Ahead	9.000	9.000			
4.0	R5-18C	Work Zone Begins	16.000	64.000			
2.0	R6-1L	One Way / Left	3.000	6.000			
3.0	R11-3a	Road Closed Local Traffic Only	12.500	38.000			
			TOTAL	206.000			

CASTING TABLE				
	FACILITY ID'S			
WATER	1	01-00754		
SANITARY	3	71-62586/ 71-62595/ 71-62595		
STORM	2	92-50961/ 92-50962		
WATER BOX	3	01-08301/ 01-00524/ 01-08303		

CONSTRUCTION METHOD AND SEQUENCING

- OR DIRECTED BY THE ENGINEER.
- 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.
- PERFORM ALL CONCRETE WORK, INCLUDING RESTORATION, IN ACCORDANCE WITH THE PLANS, AND AS
- 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
- 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.

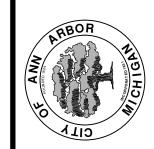
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THE IMPROVEMENTS COVERED BY THESE PLANS SHALL BE PERFORMED IN ACCORDANCE WITH MICHIGAN DEPARTMENT OF TRANSPORTATION (MDOT) 2012 STANDARD SPECIFICATIONS FOR CONSTRUCTION, INCLUDING REFERENCED MDOT PUBLICATIONS, AND THE PROJECT CONTRACT DOCUMENTS.



ENGINEERING

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



SHEET No.



PROJECT LOCATION: EDDY STREET

ITB No. 4667 FILE No. 2021-004

tem Code	Item Description	Unit	Quantity
2047001	_Curb, Gutter, and Curb and Gutter, Any Type, Rem	Ft	191.000
2047011	_Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	Syd	22.000
2057011	_Grading, Driveway Approach	Syd	22.000
2057011	_Machine Grading, Special	Syd	475.000
2057021	_Undercutting, Type IIA	Cyd	16.000
2080020	Erosion Control, Inlet Protection, Fabric Drop	Ea	2.000
4037050	_Dr Structure Cover, Type B, Modified	Ea	1.000
4037050	_Dr Structure, Adj, Case 1, Modified	Ea	1.000
4037050	_Dr Structure, Temp Lowering, Modified	Ea	1.000
5010002	Cold Milling HMA Surface	Syd	475.000
5010005	HMA Surface, Rem	Syd	21.000
5010025	Hand Patching	Ton	2.000
5010703	HMA, LVSP	Ton	110.000
6027021	_Flowable Fill	Cyd	4.000
8017011	_Driveway, Nonreinf Conc, 6 inch, Modified	Syd	22.000
8027001	_Curb and Gutter, Conc, Barrier	Ft	144.000
8027001	_Driveway Opening, Conc, Det M, Modified	Ft	50.000
8110197	Pavt Mrkg, Thermopl, 6 inch, Crosswalk	Ft	63.000
8120012	Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	Ea	1.000
8120013	Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	Ea	1.000
8120252	Plastic Drum, Fluorescent, Furn	Ea	5.000
8120253	Plastic Drum, Fluorescent, Oper	Ea	5.000
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	8.000
8120353	Sign, Type B, Temp, Prismatic, Special, Oper	Sft	8.000
8127050	_Temporary No Parking Sign	Ea	5.000
8167011	_Slope Restoration	Syd	25.000

	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		
2.0	R11-3a	Road Closed Local Traffic Only	12.500	25.000		
			TOTAL	51.000		

CASTING TABLE				
		FACILITY ID'S		
WATER	NA	NA		
SANITARY	NA	NA		
STORM	NA	NA		
WATER BOX	1	01-00552		

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.
- 5. 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.
- 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 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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ENGINEERING

CITY OF ANN ARBOR PUBLIC SERVICES 301 EAST HURON STREET, P.O. BOX 8647 ANN ARBOR, MICHIGAN 48107-8647 734-794-6410 www.a2gov.org REV. DATE DRAWN CHECKED Call befor

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ANN ARBOR
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PROJECT LOCATION: MARSHALL STREET

QUANTITIES Item Description Quantity Item Code Unit Dr Structure, Rem 6.000 Sewer, Rem, Less than 24 inch Ft 60.000 1,487.000 _Curb, Gutter, and Curb and Gutter, Any Type, Rem _Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem Syd 379.000 Syd _Grading, Driveway Approach 303.000 Syd _Grading, Sidewalk 36.000 Syd _Grading, Sidewalk Ramp 40.000 6,371.000 Syd _Machine Grading, Special Cyd _Undercutting, Type IIA 206.000 Erosion Control, Inlet Protection, Fabric Drop 10.000 Sewer, CI IV, 12 inch, Tr Det B Ft 60.000 Cyd Trench Undercut and Backfill 18.000 Dr Structure, 24 inch dia Ea 6.000 _Dr Structure Cover, Type B, Modified 17.000 Dr Structure Cover, Type K, Modified Ea 4.000 Dr Structure, Adj, Case 1, Modified Ea 19.000 Dr Structure, Temp Lowering, Modified Ea 19.000 Structure, Reconstruct 1.000 4037050 Ea _Underdrain, Subgrade, 6 inch, Special 70.000 Cold Milling HMA Surface Syd 6,371.000 HMA Surface, Rem Syd 5010005 216.000 Hand Patching 5010025 Ton 19.000 **HMA Approach** 5010061 Ton 23.000 1,427.000 HMA, LVSP 5010703 Ton _Cold Milling for Concrete Curb and Gutter Reveal Syd 5017011 343.000 _HMA, Wedging, 36A 5017031 Ton 3.000 Flowable Fill Cyd 6027021 28.000 Driveway, Nonreinf Conc, 6 inch, Modified Syd 303.000 8017011 Curb and Gutter, Conc, Barrier 8027001 790.000 Driveway Opening, Conc, Det M, Modified 8027001 Ft 671.000 Curb Ramp Opening, Conc 36.000 _Detectable Warning Surface, Modified 8037001 30.000 Sidewalk Ramp, Conc. 6 inch. Modified Sft 8037010 364.000 Sidewalk, Conc, 4 inch, Modified Sft 325.000 8037010 Pavt Mrkg, Thermopl, 6 inch, Crosswalk 8110197 128.000 Pavt Mrkg, Thermopl, 24 inch, Stop Bar 50.000 8110218 Barricade, Type III, High Intensity, Double Sided, Lighted, Furn 3.000 8120012 Ea Barricade, Type III, High Intensity, Double Sided, Lighted, Oper Ea 3.000 8120013 Plastic Drum, Fluorescent, Furn 8120252 Ea 67.000 Plastic Drum, Fluorescent, Oper 8120253 67.000 Ea Sign, Type B, Temp, Prismatic, Furn Sft 8120350 43.000 Sign, Type B, Temp, Prismatic, Oper Sft 8120351 43.000 Sign, Type B, Temp, Prismatic, Special, Furn Sft 8.000 8120352 Sign, Type B, Temp, Prismatic, Special, Oper Sft 8.000 8120353 Pedestrian Type II Barricade, Temp 4.000 8127050 Ea Temporary No Parking Sign 8127050 51.000 Ea _Slope Restoration Syd 8167011 430.000 Gate Box, Adj, Case 1 1.000 8230431 Ea

ITB No. 4667 FILE No. 2021-004

	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			
2.0	R11-3a	Road Closed Local Traffic Only	12.500	25.000			
			TOTAL	51.000			

	CASTING TABLE	
		FACILITY ID'S
WATER	4	01-01269/ 01-01267/ 01-01265 01-01268/
SANITARY	7	71-69757/ 71-69758/ 71-69759/ 71-69727/ 71-69728/ 71-69729/ 71-69730
STORM	5	92-58974/ 92-58909/ 92-58908/ 92-58907/ 92-58906/ 92-58905
WATER BOX	NA	NA

CONSTRUCTION METHOD AND SEQUENCING

- OR DIRECTED BY THE ENGINEER.
- 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
- 4. LOWER ALL STRUCTURE COVERS, INCLUDING VALVE AND MONUMENT BOXES.
- PERFORM ALL CONCRETE WORK, INCLUDING RESTORATION, IN ACCORDANCE WITH THE PLANS, AND AS
- 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
- 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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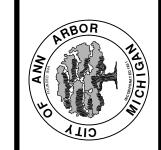
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ENGINEERING

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SHEET No.



PROJECT LOCATION: SAINT AUBIN AVENUE

QUANTITIES Item Description Quantity Item Code Unit Dr Structure, Rem 3.000 Sewer, Rem, Less than 24 inch Ft 30.000 _Curb, Gutter, and Curb and Gutter, Any Type, Rem 274.000 _Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem Syd 80.000 Syd _Grading, Driveway Approach 17.000 _Grading, Sidewalk Syd 56.000 Syd _Grading, Sidewalk Ramp 12.000 Syd 3,614.000 _Machine Grading, Special Cyd _Undercutting, Type IIA 120.000 Erosion Control, Inlet Protection, Fabric Drop 4.000 Sewer, CI IV, 12 inch, Tr Det B 30.000 Cyd Trench Undercut and Backfill 9.000 Dr Structure, 24 inch dia Ea 3.000 _Dr Structure Cover, Type B, Modified 1.000 _Dr Structure Cover, Type K, Modified 3.000 Dr Structure, Adj, Case 1, Modified 2.000 Dr Structure, Temp Lowering, Modified 4.000 Underdrain, Subgrade, 6 inch, Special 4047001 30.000 Cold Milling HMA Surface Syd 3,614.000 Syd HMA Surface, Rem 30.000 Hand Patching HMA, LVSP 5010703 Ton 835.000 _Cold Milling for Concrete Curb and Gutter Reveal Syd 35.000 Flowable Fill Cyd 6027021 5.000 Driveway, Nonreinf Conc, 8 inch, Modified Syd 17.000 _Curb and Gutter, Conc, Barrier 8027001 236.000 _Driveway Opening, Conc, Det M, Modified 38.000 Curb Ramp Opening, Conc 12.000 8030030 Ft _Detectable Warning Surface, Modified 10.000 _Sidewalk Ramp, Conc, 6 inch, Modified 8037010 Sft 108.000 Sidewalk, Conc, 4 inch, Modified Sft 190.000 Sidewalk, Conc, 8 inch, Modified 8037010 Sft 310.000 Pavt Mrkg, Thermopl, 6 inch, Crosswalk 8110197 84.000 Pavt Mrkg, Thermopl, 24 inch, Stop Bar 8110218 Ft 24.000 Pavt Mrkg, Waterborne, for Rest Areas, Parks, & Lots, 4 inch, Blue 8110293 140.000 Pavt Mrkg, Waterborne, for Rest Areas, Parks, & Lots, 4 inch, White 1,764.000 8110293 Barricade, Type III, High Intensity, Double Sided, Lighted, Furn 8120012 Ea 2.000 Barricade, Type III, High Intensity, Double Sided, Lighted, Oper 2.000 8120013 Ea Plastic Drum, Fluorescent, Furn 8120252 Ea 16.000 Plastic Drum, Fluorescent, Oper 8120253 16.000 Ea Sign, Portable, Changeable Message, Oper 2.000 Ea Sign, Type B, Temp, Prismatic, Furn Sft 8120350 159.000 Sign, Type B, Temp, Prismatic, Oper Sft 8120351 159.000 Sign, Type B, Temp, Prismatic, Special, Furn Sft 8120352 16.000 Sign, Type B, Temp, Prismatic, Special, Oper Sft 16.000 8120353 Pedestrian Type II Barricade, Temp 8127050 4.000 Ea Pedestrian Type II Channelizer, Temp 8127050 Ea 8.000 Temporary No Parking Sign 15.000 8127050 Ea Slope Restoration Syd 8167011 79.000 Gate Box, Adj, Case 1 8230431 Ea 2.000

ITB No. 4667 FILE No. 2021-004

	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	G20-2	End Road Work	4.500	9.000	
2.0	W3-5B	Reduce Speed Zone	9.000	18.000	
1.0	W4-2R	Lane Ends / Right	9.000	9.000	
4.0	W20-1	Road Work Ahead Sign	9.000	36.000	
1.0	W20-5R	Right Lane Closed Ahead	9.000	9.000	
2.0	R2-1	Speed Limit	7.500	15.000	
2.0	R5-18C	Work Zone Begins	16.000	32.000	
2.0	R6-1L	One Way / Left	3.000	6.000	
2.0	R11-3a	Road Closed Local Traffic Only	12.500	25.000	
			TOTAL	175.000	

CASTING TABLE		
		FACILITY ID'S
WATER	NA	NA
SANITARY	1	71–62417
STORM	NA	NA
WATER BOX	NA	NA

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.
- PERFORM ALL CONCRETE WORK, INCLUDING RESTORATION, IN ACCORDANCE WITH THE PLANS, AND AS
- 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
- 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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- 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:

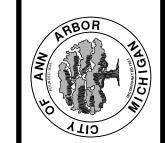
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ENGINEERING

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



SHEET No.



PROJECT LOCATION: VERLE AVENUE

ITB No. 4667 FILE No. 2021-004

QUANTITIES				
Item Code	Item Description	Unit	Quantity	
2030011	Dr Structure, Rem	Ea	12.000	
2030015	Sewer, Rem, Less than 24 inch	Ft	120.000	
2047001	_Curb, Gutter, and Curb and Gutter, Any Type, Rem	Ft	2,448.000	
2047011	_Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	Syd	218.000	
2057011	_Grading, Driveway Approach	Syd	210.000	
2057011	_Grading, Sidewalk	Syd	1.000	
2057011	_Grading, Sidewalk Ramp	Syd	2.000	
2057011	_Machine Grading, Special	Syd	6,925.000	
2057021	_Undercutting, Type IIA	Cyd	231.000	
2080020	Erosion Control, Inlet Protection, Fabric Drop	Ea	16.000	
4020987	Sewer, Cl IV, 12 inch, Tr Det B	Ft	120.000	
4021260	Trench Undercut and Backfill	Cyd	36.000	
4030200	Dr Structure, 24 inch dia	Ea	12.000	
4037050	_Dr Structure Cover, Type B, Modified	Ea	13.000	
4037050	_Dr Structure Cover, Type K, Modified	Ea	10.000	
4037050	_Dr Structure, Adj, Case 1, Modified	Ea	22.000	
4037050	_Dr Structure, Temp Lowering, Modified	Ea	22.000	
4047001	_Underdrain, Subgrade, 6 inch, Special	Ft	120.000	
5010002	Cold Milling HMA Surface	Syd	6,925.000	
5010005	HMA Surface, Rem	Syd	272.000	
5010025	Hand Patching	Ton	31.000	
5010703	HMA, LVSP	Ton	1,600.000	
6027021	_Flowable Fill	Cyd	45.000	
8017011	_Driveway, Nonreinf Conc, 6 inch, Modified	Syd	210.000	
8027001	_Curb and Gutter, Conc, Barrier	Ft	1,438.000	
8027001	_Driveway Opening, Conc, Det M, Modified	Ft	1,004.000	
8030030	Curb Ramp Opening, Conc	Ft	6.000	
8037001	_Detectable Warning Surface, Modified	Ft	5.000	
8037010	_Sidewalk Ramp, Conc, 6 inch, Modified	Sft	21.000	
8037010	_Sidewalk, Conc, 6 inch, Modified	Sft	7.000	
8110197	Pavt Mrkg, Thermopl, 6 inch, Crosswalk	Ft	246.000	
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	
8120252	Plastic Drum, Fluorescent, Furn	Ea	115.000	
8120253	Plastic Drum, Fluorescent, Oper	Ea	115.000	
8120350	Sign, Type B, Temp, Prismatic, Furn	Sft	198.000	
8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	198.000	
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	62.000	
8167011	_Slope Restoration	Syd	500.000	

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	G20-2	End Road Work	4.500	9.000
1.0	W1-4L	Reverse Curve (Left)	9.000	9.000
1.0	W1-4L	Reverse Curve (Right)	9.000	9.000
2.0	W1-6L	Shift arrow Left	9.000	18.000
2.0	W1-6R	Shift arrow Right	9.000	18.000
2.0	W3-5B	Reduce Speed Zone	9.000	18.000
2.0	W20-1	Road Work Ahead Sign	9.000	18.000
2.0	W20-5A	Center Lane Closed Ahead	9.000	18.000
1.0	W20-5R	Right Lane Closed Ahead	9.000	9.000
2.0	R2-1	Speed Limit	7.500	15.000
2.0	R5-18C	Work Zone Begins	16.000	32.000
2.0	R11-3a	Road Closed Local Traffic Only	12.500	25.000
			TOTAL	206.000

	CASTING TABLE	
		FACILITY ID'S
WATER	2	01-02087/ 01-02088/
SANITARY	9	71-69721/ 71-69722/ 71-69723/ 71-69724/ 71-69725/ 71-69726/ 71-69731/ 71-69735/ 71-69736/
STORM	7	92-58898/ 92-58899/ 92-58900/ 92-58901/ 92-58902/ 92-58904/ 92-58896/
WATER BOX	NA	NA

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 PLAN 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.

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CITY OF ANN ARBOI PUBLIC SERVICES 301 EAST HURON STREE P.O. BOX 8647 ANN ARBOR, MI 48107-86 734-794-6410 www.a2gov.org



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CALE : NTS

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SCALE: NO.



PROJECT LOCATION: YOST BOULEVARD

QUANTITIES Item Description Quantity Item Code Dr Structure, Rem 10.000 Sewer, Rem, Less than 24 inch Ft 100.000 1,539.000 _Curb, Gutter, and Curb and Gutter, Any Type, Rem _Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem 561.000 Syd _Grading, Driveway Approach 441.000 _Grading, Sidewalk Syd 191.000 Syd _Grading, Sidewalk Ramp 45.000 Syd 9,000.000 _Machine Grading, Special Cyd _Undercutting, Type IIA 300.000 Erosion Control, Inlet Protection, Fabric Drop 17.000 Sewer, CI IV, 12 inch, Tr Det B 100.000 Cyd Trench Undercut and Backfill 30.000 Dr Structure, 24 inch dia 10.000 Dr Structure, Adj, Add Depth 1.000 _Dr Structure Cover, Type B, Modified 18.000 _Dr Structure Cover, Type K, Modified 10.000 _Dr Structure, Adj, Case 1, Modified 31.000 _Dr Structure, Adj, Case 2, Modified Ea 1.000 Dr Structure, Cleaning, Modified _Dr Structure, Temp Lowering, Modified _Underdrain, Subgrade, 6 inch, Special 100.000 _Yard Drain, Outlet Ending, Plastic Pipe 4047001 Ft 1.000 _Yard Drain, Outlet Ending, Pop-up Apparatus 1.000 Cold Milling HMA Surface 9,000.000 Syd 5010002 HMA Surface, Rem Syd 5010005 262.000 Hand Patching 5010025 Ton 20.000 HMA, LVSP 2,079.000 5010703 Ton Cold Milling for Concrete Curb and Gutter Reveal Syd 614.000 5017011 Raised Intersection, HMA Syd 5017011 868.000 _Speed Hump, HMA Syd 5017011 145.000 HMA, Wedging, 36A Ton 5.000 Raised Intersection, Conc Syd 6027011 868.000 Speed Hump, Conc Syd 145.000 6027011 Cyd Flowable Fill 6027021 29.000 Driveway, Nonreinf Conc, 6 inch, Modified Syd 441.000 _Curb and Gutter, Conc, Barrier 8027001 713.000 Driveway Opening, Conc, Det M, Modified 8027001 790.000 Curb Ramp Opening, Conc 8030030 Ft 42.000 Detectable Warning Surface, Modified 35.000 Sidewalk Ramp, Conc, 6 inch, Modified 408.000 8037010 Sft Sidewalk, Conc, 4 inch, Modified 1,375.000 Sft Sidewalk, Conc, 6 inch, Modified Sft 8037010 340.000 Pavt Mrkg, Thermopl, 6 inch, Crosswalk Ft 8110197 196.000 Pavt Mrkg, Thermopl, 12 inch, Crosswalk 176.000 8110214 Ft Pavt Mrkg, Thermopl, 24 inch, Stop Bar 27.000 8110218 Pavt Mrkg, Thermopl, Speed Hump Chevron, White 8117050 Ea 24.000 Barricade, Type III, High Intensity, Double Sided, Lighted, Furn 8120012 6.000 Barricade, Type III, High Intensity, Double Sided, Lighted, Oper 6.000 8120013 Ea 8120252 Plastic Drum, Fluorescent, Furn 84.000 Ea 8120253 Plastic Drum, Fluorescent, Oper Ea 84.000

ITB No. 4667 FILE No. 2021-004

QUANTITIES				
Item Code	Item Description	Unit	Quantity	
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	8.000	
8120353	Sign, Type B, Temp, Prismatic, Special, Oper	Sft	8.000	
8127050	_Pedestrian Type II Barricade, Temp	Ea	8.000	
8127050	_Temporary No Parking Sign	Ea	75.000	
8167011	_Slope Restoration	Syd	300.000	
8230431	Gate Box, Adj, Case 1	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)	
2.0	*D3-1	Street Name Sign	4.000	8.000	
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	51.000	

CASTING TABLE		
		FACILITY ID'S
WATER	2	01-00585/ 01-02303/
SANITARY	9	71-62599/ 71-62598/ 71-62597/ 71-62602/ 71-62620/ 71-62630/ 71-62629/ 71-61852/ 71-61178/
STORM	7	92-50966/ 92-50965/ 92-50964/ 92-50963/ 92-50979/ 92-50980/ 92-50213/
WATER BOX	2	01-06663/ 01-06664/

CONSTRUCTION METHOD AND SEQUENCING

- OR DIRECTED BY THE ENGINEER.
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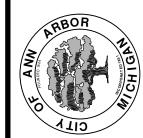
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