



# CITY OF ANN ARBOR ENGINEERING

## ANNUAL STREET RESURFACING - 2018

ITB No. 4529 FILE No. 2018004

**NOTES:**

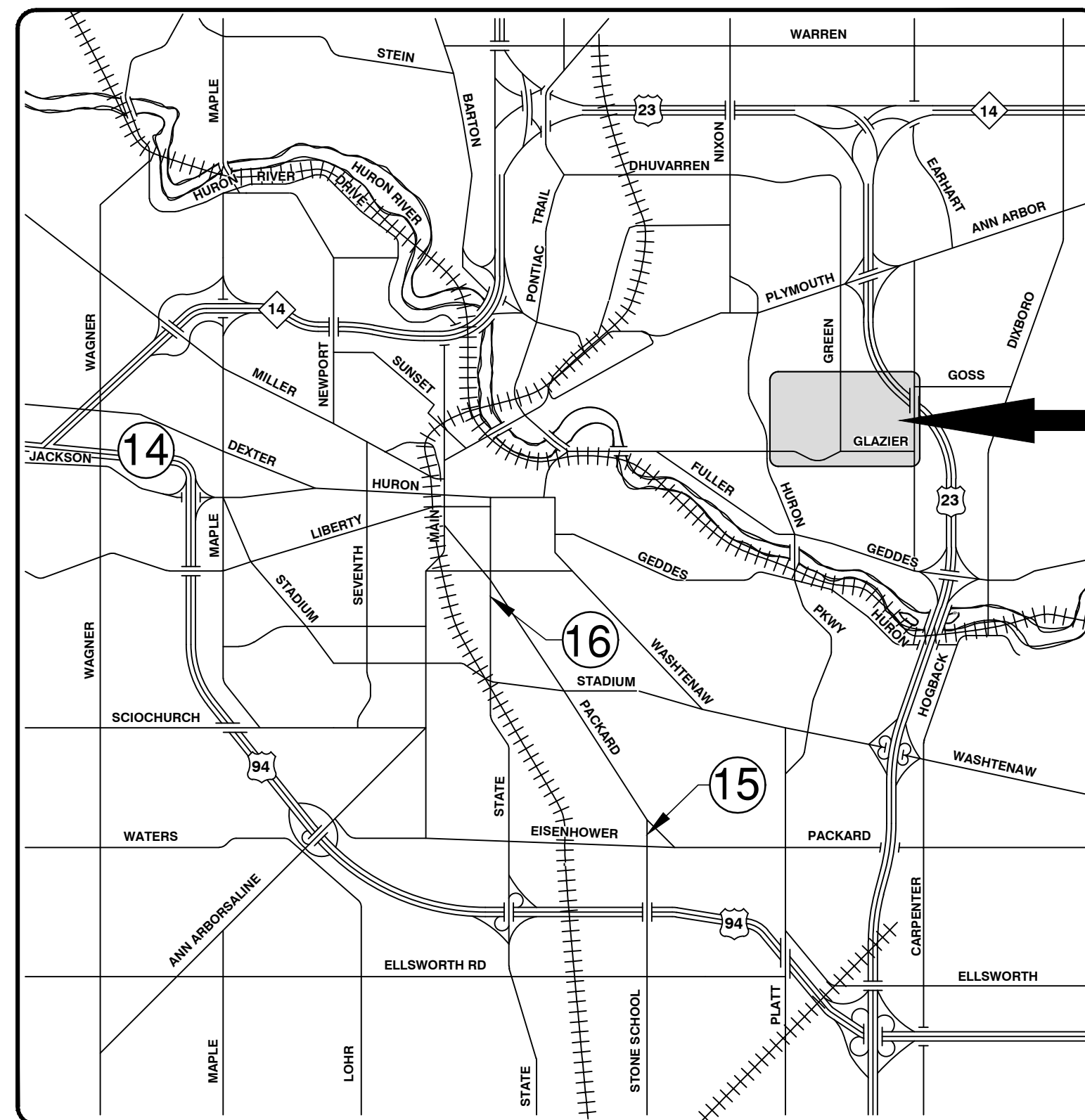
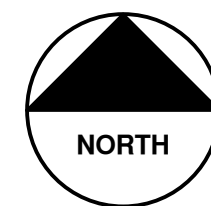
FOR PROTECTION OF UNDERGROUND UTILITIES AND IN CONFORMANCE WITH PUBLIC ACT 174 OF 2013, THE CONTRACTOR SHALL CALL 811 OR 1-800-482-7171 A MINIMUM OF THREE FULL WORKING DAYS, EXCLUDING SATURDAYS, SUNDAYS, AND HOLIDAYS, PRIOR TO BEGINNING EACH EXCAVATION IN AREAS WHERE PUBLIC UTILITIES HAVE NOT BEEN PREVIOUSLY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

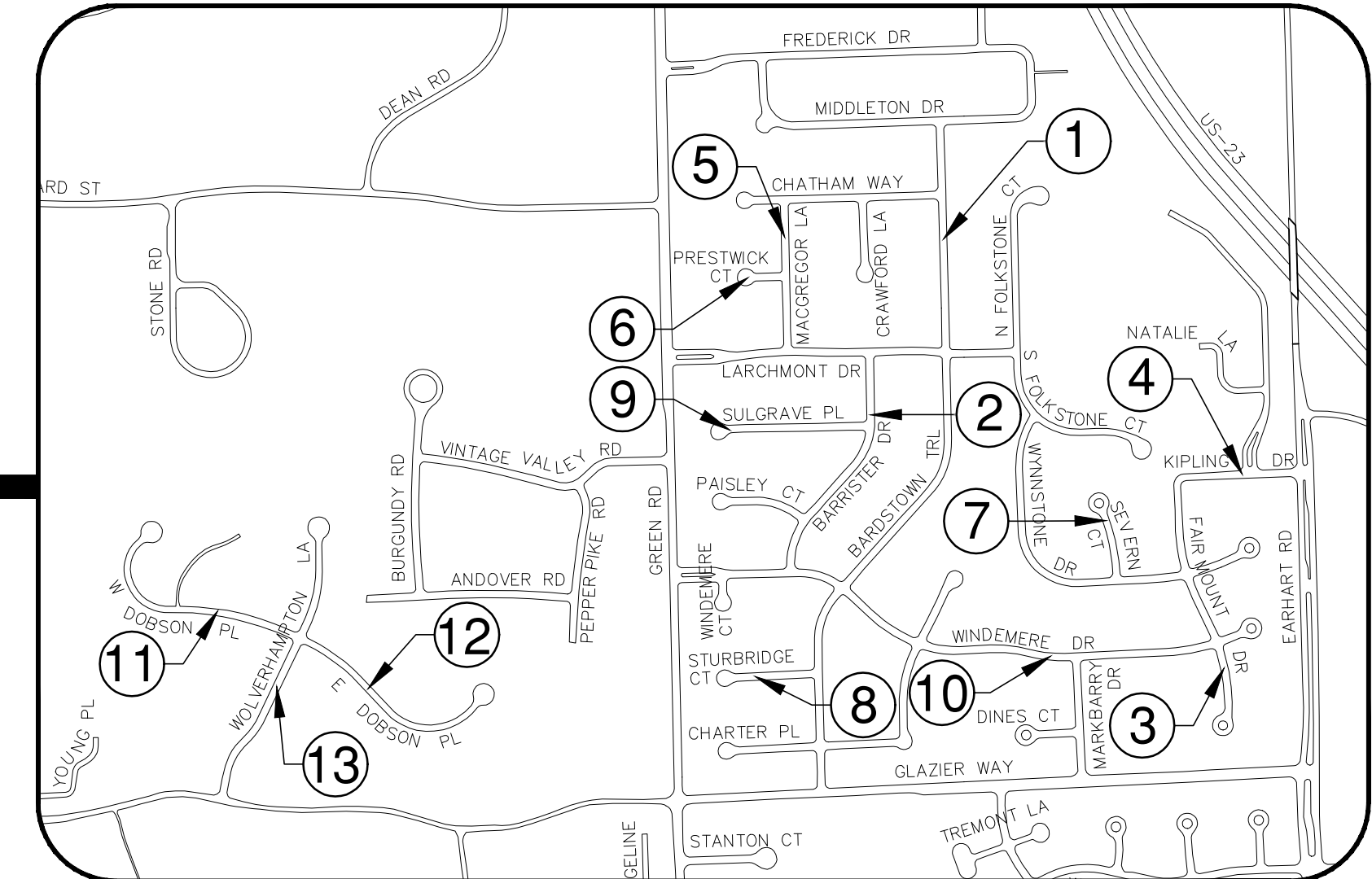
THE IMPROVEMENTS COVERED BY THESE PLANS SHALL BE PERFORMED IN ACCORDANCE WITH MICHIGAN DEPARTMENT OF TRANSPORTATION (MDOT) 2012 STANDARD SPECIFICATIONS FOR CONSTRUCTION, INCLUDING REFERENCED MDOT PUBLICATIONS, AND THE PROJECT CONTRACT DOCUMENTS.

**SHEET INDEX**

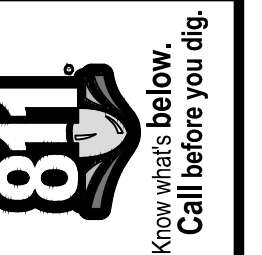
SHEET NO.	TITLE	MAP INDEX NO. (THIS SHEET)
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2	NOTES AND MISCELLANEOUS QUANTITIES	
3	SOIL EROSION AND SEDIMENTATION CONTROL (SESC) NOTES AND DETAILS	
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VICINITY MAP

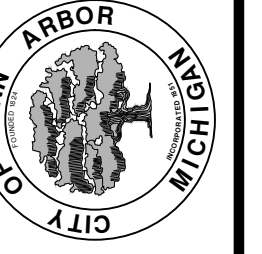


T:\2018004\Plan Production\2018004COV.dwg - \_o2 standard bw.stb - Plot Date: 2/27/2018 3:20:16 PM



REV.	DESCRIPTION	DATE	DRAWN	CHECKED
00	BID SET	2-27-18	GS/CE	DAD

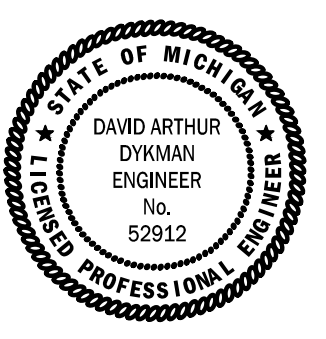
CITY OF ANN ARBOR  
PUBLIC SERVICES  
301 EAST HURON STREET  
ANN ARBOR, MI 48106-8647  
www.a2gov.org



CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING  
ANNUAL STREET RESURFACING - 2018  
MAJOR AND LOCAL STREET RESURFACING  
COVER SHEET

SCALE  
DRAWING No. 2018004-1  
SHEET No. 1 OF 72

PREPARED UNDER THE SUPERVISION OF  
*David Arthur Dykman*  
DAVID ARTHUR DYKMAN, P.E. - MI LICENSE No. 52912  
PROJECT MANAGER  
02 / 27 / 2018  
DATE



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**GENERAL NOTES:**

- Driveways and entrances to buildings, real property, and the like shall not be blocked except for short durations and only when approved by the Engineer. Vehicular and pedestrian access shall be maintained at all times. It shall be the Contractor's responsibility to coordinate all necessary driveway closures with the property owner(s) and resident(s) in the areas of construction.
- The location and depth of all existing utilities and service leads are to be field verified by the Contractor prior to construction.
- During non-working hours no more than ten (10) feet of trench shall remain open; any open trench shall be properly secured with protective fencing. This work shall be included in the items of work being undertaken and will not be paid for separately.
- The location of material stock piles and on-site staging areas shall be approved by the Engineer.
- For mainline HMA Paving, the width of the mat for each pass of the paver shall be not less than 10.5', nor greater than 16', except as noted in the plans and as directed by the Engineer. The Engineer will direct the layout of all HMA Longitudinal Joints during construction.
- All excavation required to construct sidewalk and sidewalk ramps shall be included in the contract pay item "Grading, Sidewalk and Sidewalk Ramps".
- Some storm sewer may unavoidably become damaged during construction, or it may be determined by the Engineer that existing storm sewer needs to be replaced. In either case the Engineer may direct the sewer to be removed and replaced. The removal of existing sewer and drainage structures, as required, shall be included in the respective contract pay items "Sewer, Rem, Less than 24 inch" and "Dr Structure, Rem". The replacement sewer shall be installed and paid for at the corresponding contract unit price, if contained within the contract, for the various types and sizes of sewer to be replaced.
- 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".
- Payment for drainage structure sumps where specified shall be included in the payment for the various drainage structures sizes and/or types.
- Where pipes of different sizes or materials are joined, Fernco Flexible Couplings with stainless steel shear rings shall be used. The Contractor's purchase price for these devices, including shipping, shall be paid as an extra. Prior to payment for this item, the Contractor shall submit receipts for the Engineer's review and approval. All other costs associated with the installation of these devices shall be included in the payment for the sewer.
- Where storm sewer is to be removed and replaced or added, all pipe shall be installed using the utility trench details shown elsewhere in the plan sheets and/or detailed in the specifications. Trench Details I and V require the use of MDOT Class II Granular Material.
- If the Contractor encounters existing edge drain(s) during construction of the proposed edge drains, inlet leads, or catch basins, it shall be capped at each end to prevent material from entering the pipe. The cost of this work will not be paid for separately, but shall be included in the particular item of work being performed when existing edge drain(s) are encountered.
- In areas where edge drain cannot be installed in accordance with the details, the edge drain shall be installed at the depth as indicated on the plans, or as directed by the Engineer. In no case shall the edge drain be installed at a grade less than 0.50% or at a depth less than 3.25' below the top of pavement.
- Existing street name signs, guide, bus stop, and regulatory signs which conflict with the proposed construction shall be removed prior to construction, stored in a manner which will prevent damage, and re-set in locations as directed by the Engineer. This work will not be paid for separately, but shall be included in the contract pay item "Minor Traf Devices."
- All curb, sidewalk, driveway approach removals shall be approved by the Engineer before the work is performed.
- Place 4" (minimum) thickness Granular Material Class II compacted to 95% of its max. dry density under concrete sidewalk as shown on the details. This work shall be included in the contract item "Subbase, CIP."
- Place 6" (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".
- A uniform coat(s) of curing compound shall be applied according to the Standard Specifications and Special Provisions regardless of the difficulty involved. The Contractor shall take care to prevent overspray when applying curing compound. Several different methods may need to be developed to protect various situations, but all methods used to prevent overspray of the curing compound shall be completely effective. Methods used shall be approved by the Engineer prior to use, however approval of a method does not guarantee success or acceptability. No additional compensation shall be made for complying with these requirements.

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

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

**CONTACT INFORMATION**

PUBLIC UTILITIES	OWNER	CONTACT
WATER		
SANITARY		
STORM	CITY OF ANN ARBOR PUBLIC WORKS W.R. WHEELER SERVICE CENTER 4251 STONE SCHOOL ROAD ANN ARBOR, MI 48108	(734) 794-6350
FORESTRY		
SIGNS SIGNALS STREET LIGHTS		(734) 794-6361
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	CLAY COMBEE (734) 397-4112
STREET LIGHTING	DTE ENERGY WESTERN WAYNE SERVICE CENTER 8001 HAGGERTY ROAD BELLEVILLE, MI 48111	BRANDON FARON (734) 397-4017
CABLE	COMCAST 27800 FRANKLIN ROAD SOUTHFIELD, MI 48034	RON SUTHERLAND (313) 999-8300
PHONE	AT&T 550 S. MAPLE ROAD ANN ARBOR, MI 48103	(734) 996-2135
FIBER OPTIC	MCI 2800 N. GLENFILLE ROAD RICHARDSON, TX 75082	DEAN BOYERS (972) 729-6016

PROJECT NAME BENCHMARKS		
BM #	ELEV	DESCRIPTION
1	924.310	CHISELED SQUARE IN CONCRETE ON NORTH SIDE OF STRAIN POLE IN THE SOUTHEAST CORNER OF W. STADIUM BLVD. AND S. SEVENTH ST.
2	921.230	S.W. BOLT LOCATED ON LIGHT POLE ON EAST SIDE OF S. SEVENTH ST. APPROX. 600' SOUTH OF WEST STADIUM BLVD.



**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

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811

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ANN ARBOR MICHIGAN CITY

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING  
 ANNUAL STREET RESURFACING - 2018  
 #####

NOTES & MISCELLANEOUS QUANTITIES

SCALE

DRAWING No.  
2018004-2

SHEET No.

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

1. THE CONTRACTOR SHALL IMPLEMENT AND MAINTAIN THE SOIL EROSION CONTROL MEASURES AS SHOWN ON THE PLANS AND AS DIRECTED BY THE ENGINEER AT ALL TIMES DURING CONSTRUCTION. ANY MODIFICATIONS OR ADDITIONS TO THE SOIL EROSION CONTROL MEASURES DUE TO CONSTRUCTION OR CHANGED CONDITIONS SHALL BE AS DIRECTED AND APPROVED BY THE ENGINEER.
2. ALL SOIL EROSION AND SEDIMENTATION CONTROL WORK SHALL CONFORM TO THE PERMIT REQUIREMENTS OF THE CITY OF ANN ARBOR, 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 PALLIATIVE 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:**

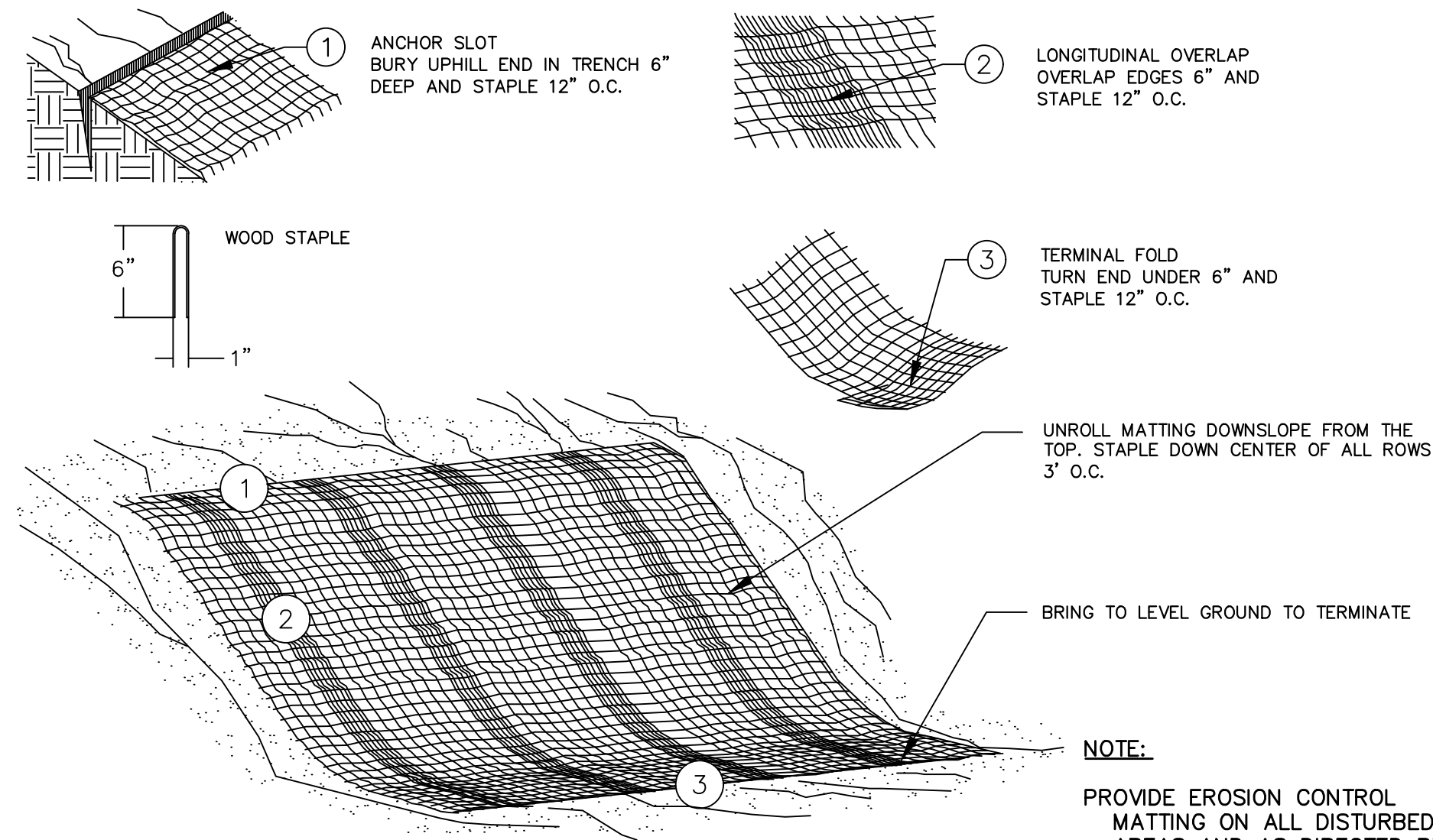
- 1.1. INSTALL SILT FENCE, TREE PROTECTION FENCING, MUD MATS, INLET FILTERS ON EXISTING DRAINAGE FEATURES, AND ALL OTHER TEMPORARY SOIL EROSION CONTROLS, PRIOR TO ANY CLEARING OR EARTH MOVING OPERATION.
- 1.2. STRIP AND STOCKPILE TOPSOIL. STABILIZE STOCKPILE AS REQUIRED.
- 1.3. INSTALL WATER MAINS, STORM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

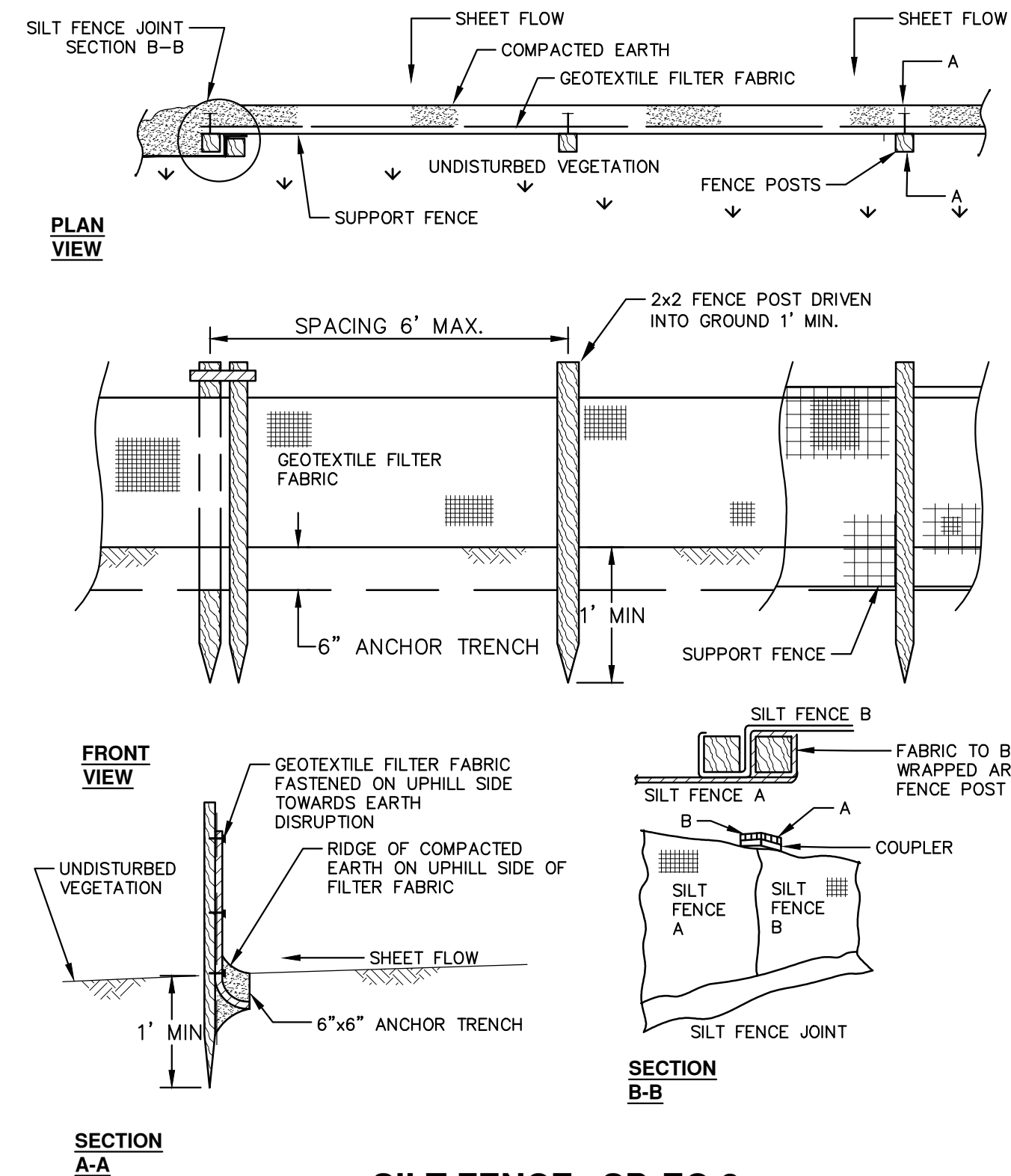
**TEMPORARY SEEDING:**

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



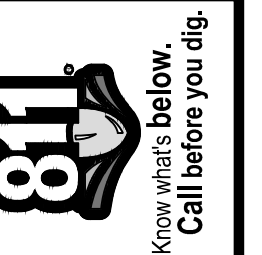
**MULCH BLANKET DETAIL**

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



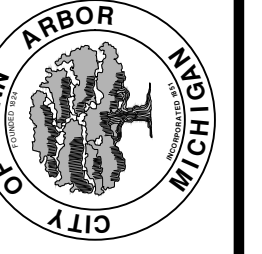
**SILT FENCE SD-EC-3**

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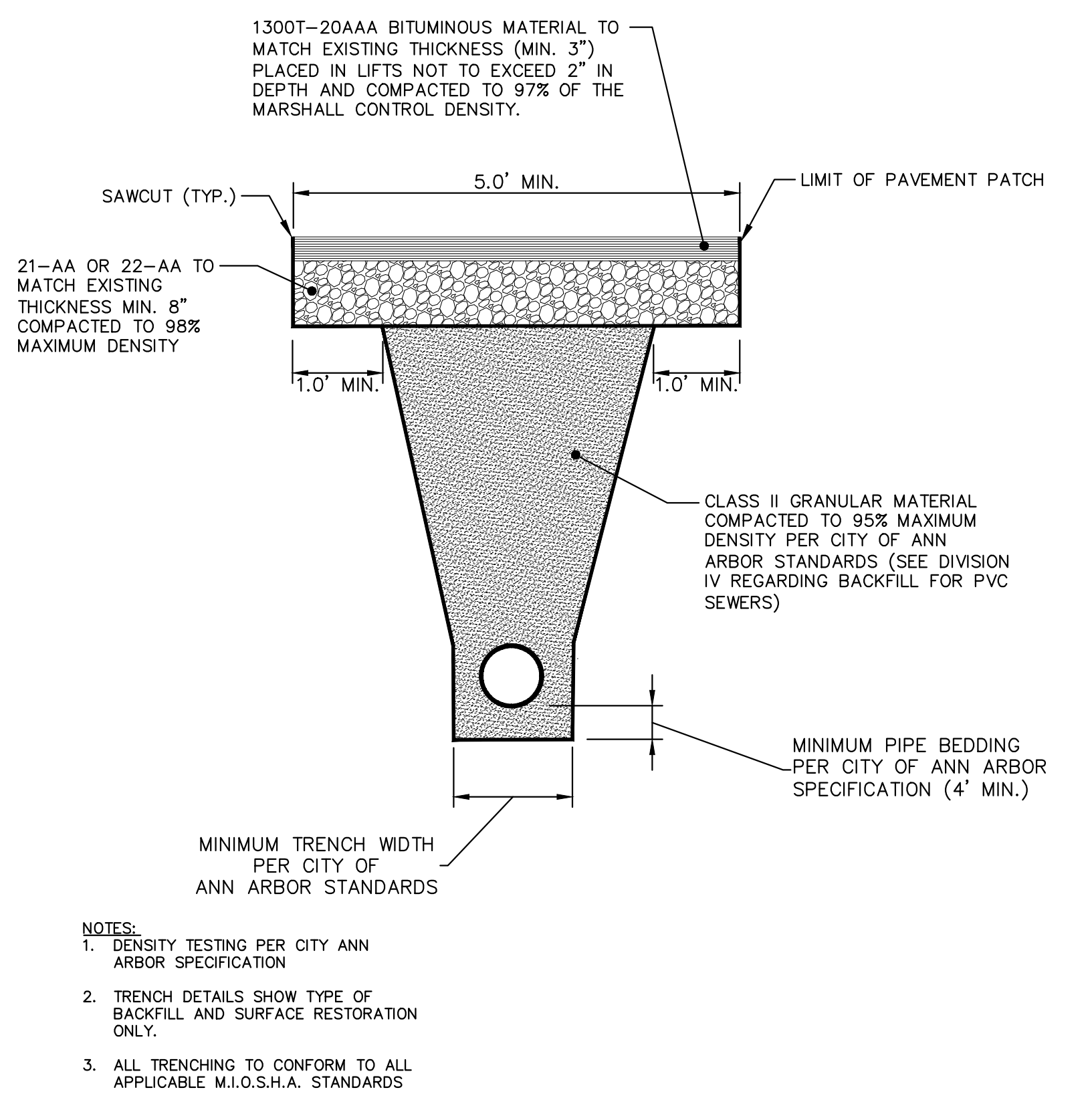
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	2-27-18	DATE	
	GSCCE	DRAWN	
	DAD	CHECKED	

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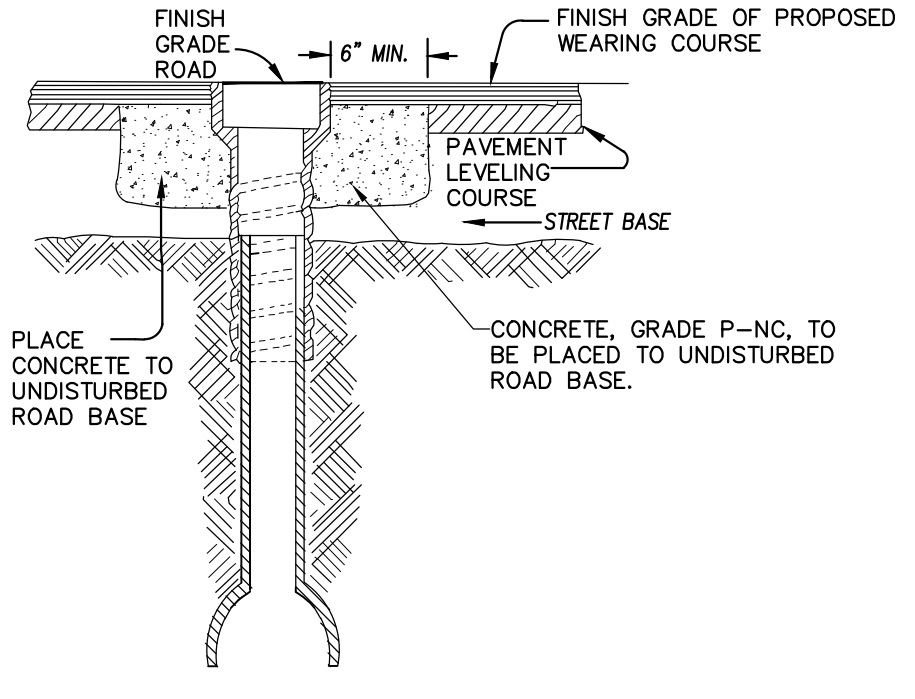
CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING  
ANNUAL STREET RESURFACING - 2018  
SESC NOTES & DETAILS

SCALE: NTS  
DRAWING No. 2018004-3



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

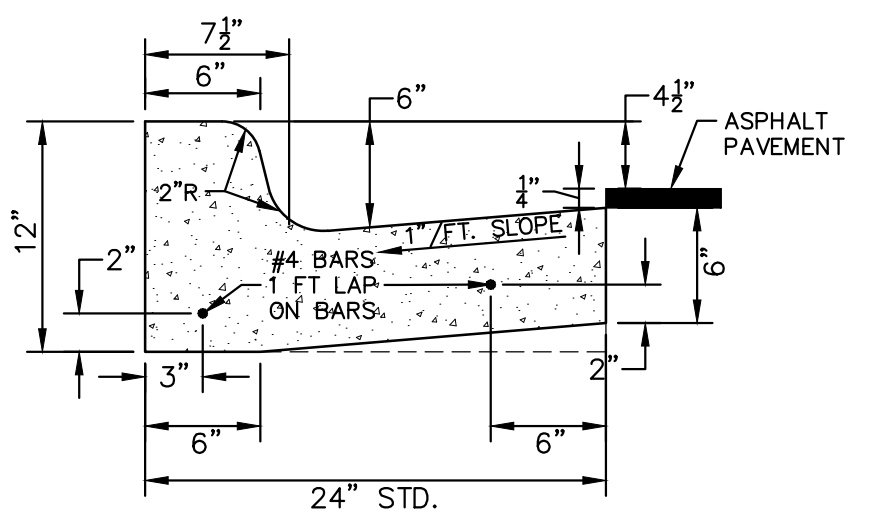
**UTILITY TRENCH-TYPE I SD-TD-1**  
(UNDER BITUMINOUS SURFACE)



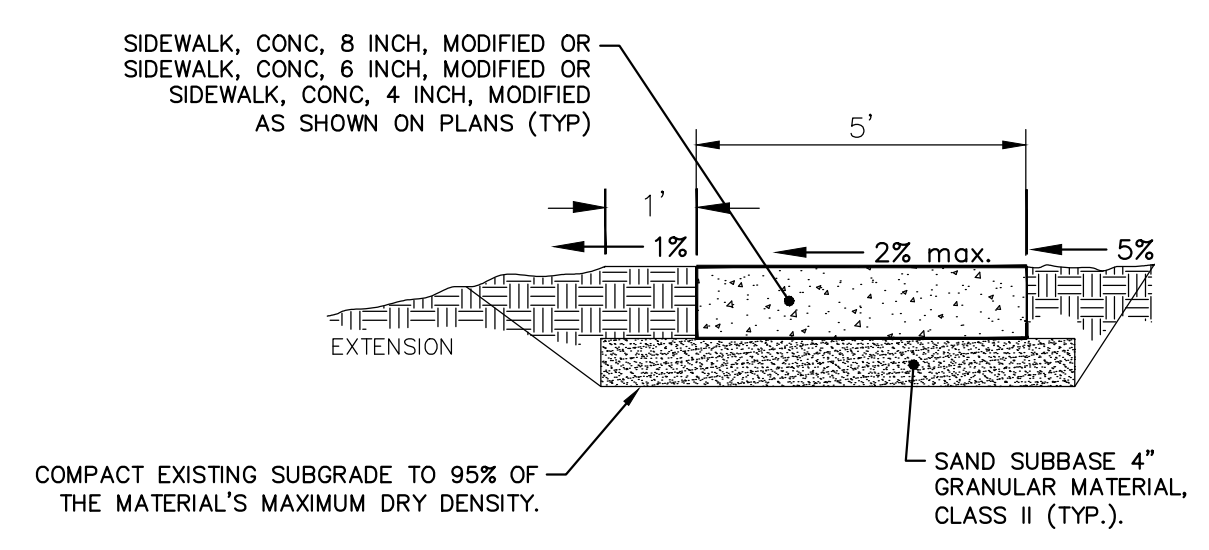
NOTE: RAISE CASTING TO PROPOSED FINISH STREET GRADE AFTER PLACEMENT OF LEVELING COURSE(S) AND PRIOR TO PLACING FINAL SURFACE COURSE

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

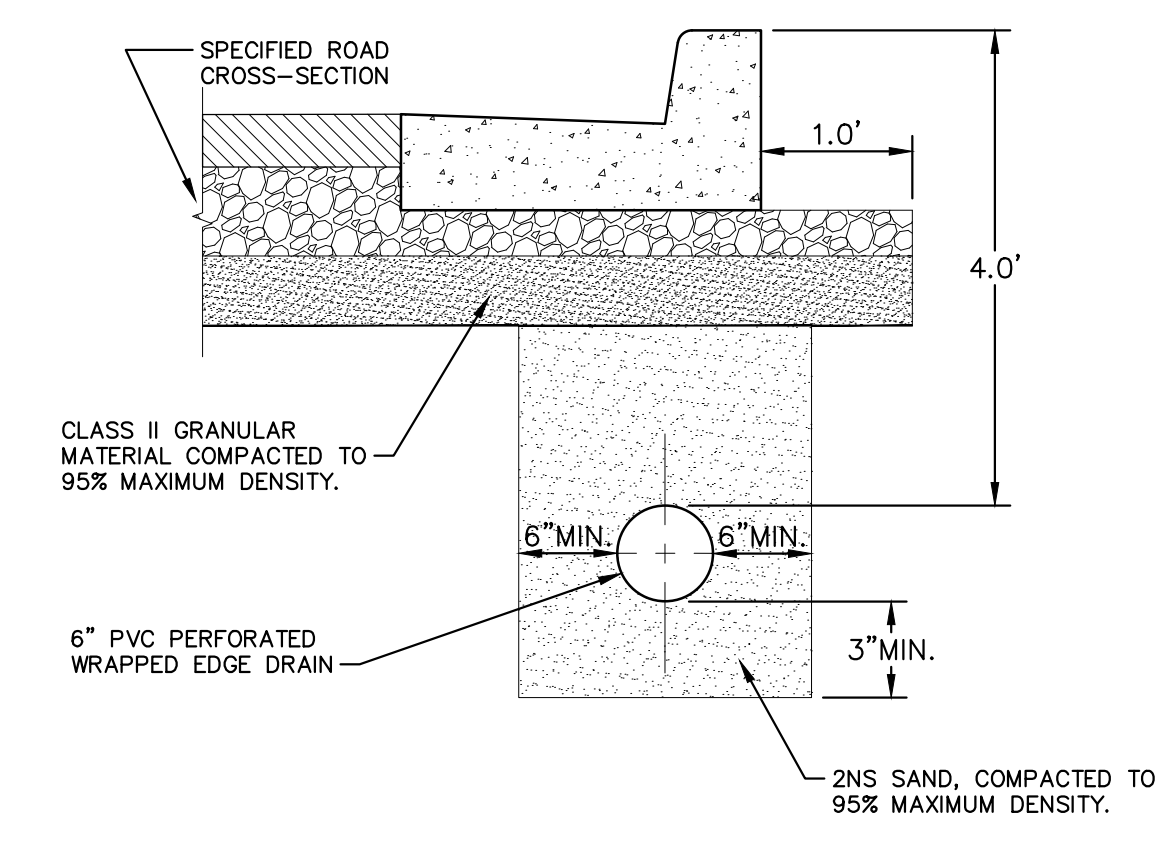
**WATER VALVE BOX ADJUSTMENT**



**BARRIER CURB AND GUTTER SD-R-1**

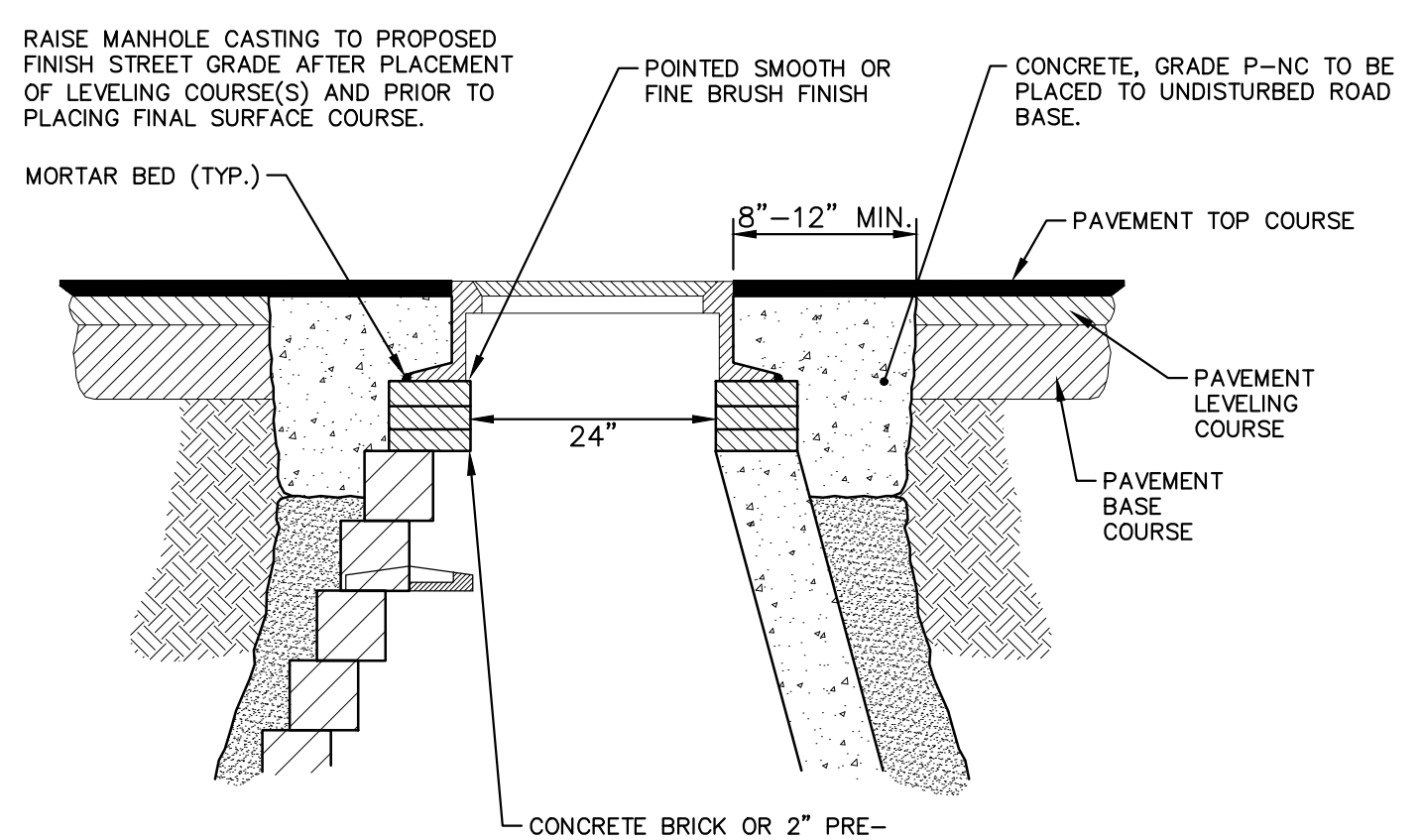


**TYPICAL 5 FT SIDEWALK SECTION**



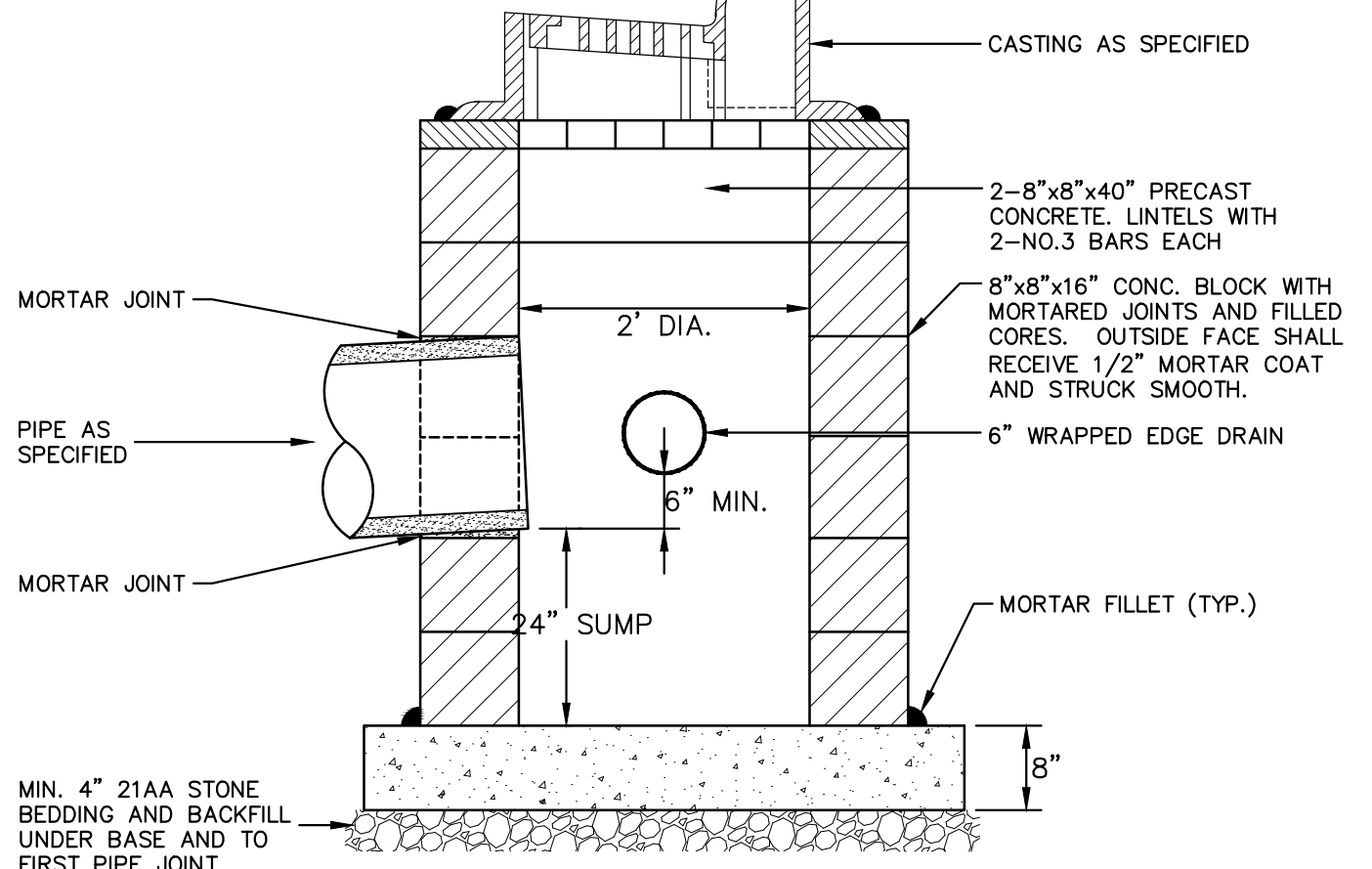
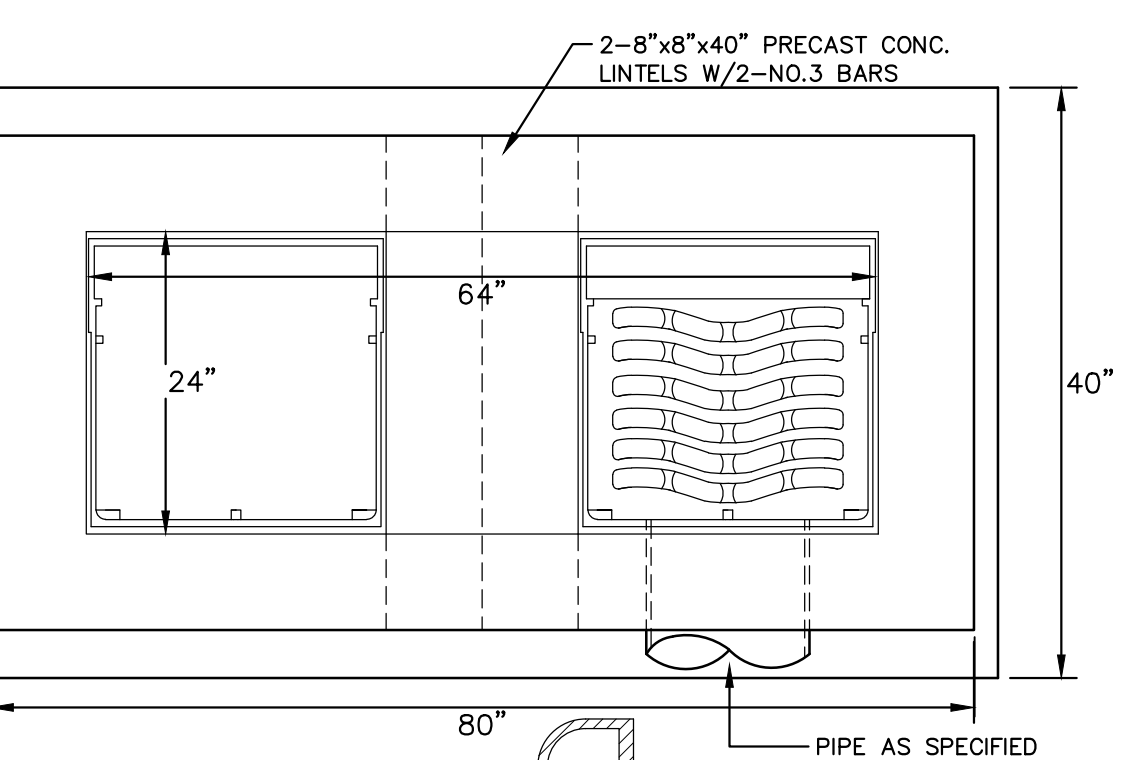
- NOTES:
- FOR PAVEMENT BASE AND SUBBASE THICKNESS, SEE TYPICAL PAVEMENT CROSS-SECTION.
  - DENSITY TESTING PER CITY OF ANN ARBOR SPECIFICATIONS.
  - TRENCH DETAILS SHOW TYPE OF BACKFILL AND SURFACE RESTORATION, ONLY.
  - ALL TRENCHING TO CONFORM TO ALL APPLICABLE M.I.O.S.H.A. STANDARDS.

**TYPICAL EDGE DRAIN TRENCH SD-TD-10**



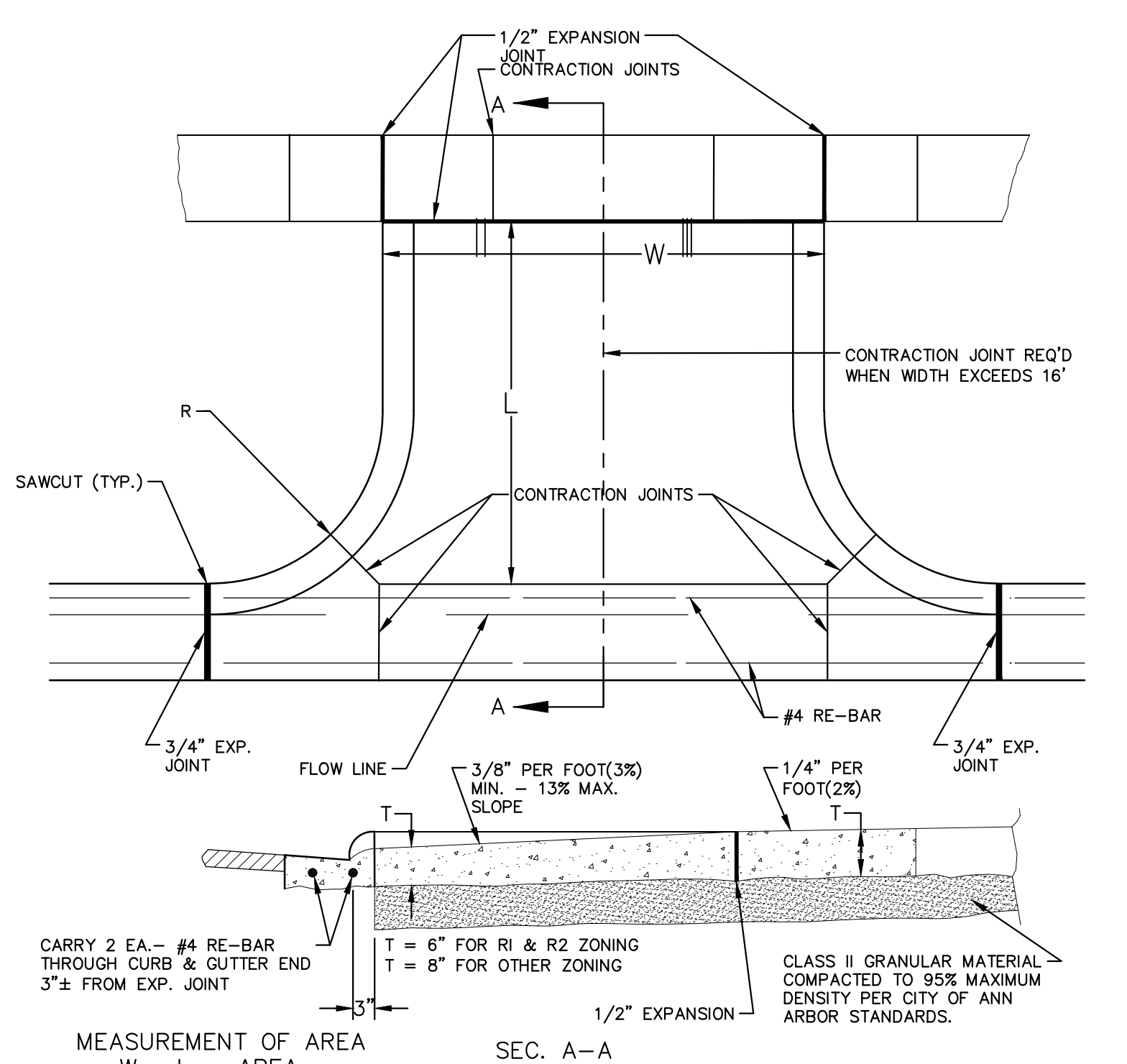
NOTE:  
IF MANHOLE WILL BE PLACED IN GRAVEL ROAD, CASTING TO BE SET 6" TO 8" BELOW ROADWAY GRADE. ALL CONSTRUCTION METHODS SHALL REMAIN AS SHOWN ABOVE.

**MANHOLE CASTING ADJUSTMENT SD-GU-6**



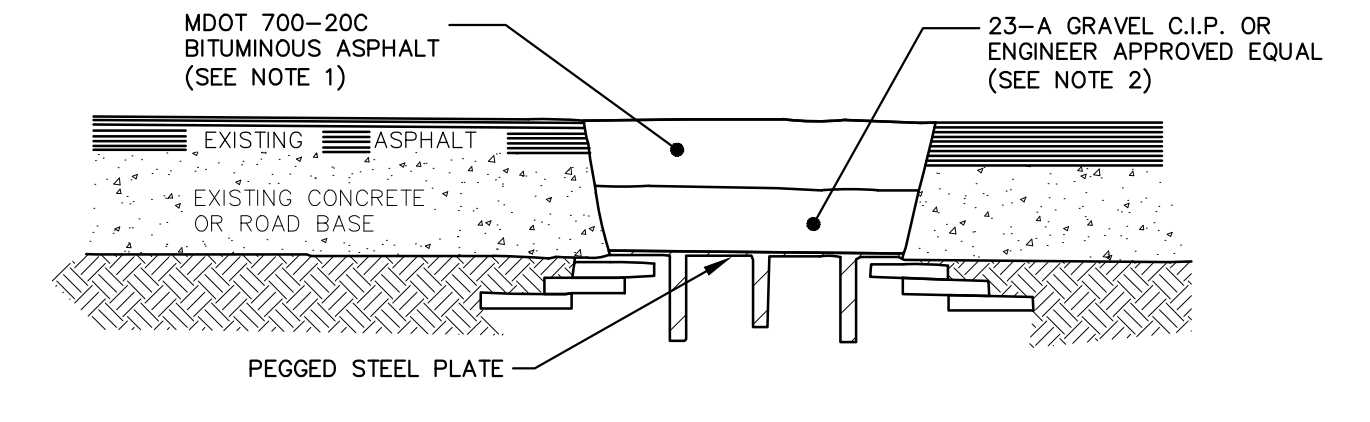
- NOTES:
- FRONT EDGE OF INLET CASTINGS SHALL BE FLUSH WITH THE FRONT EDGE OF GUTTER (EDGE-OF-METAL)
  - 2' SUMP REQUIRED ON ALL DRAINAGE STRUCTURES

**DOUBLE INLET STRUCTURE SD-S-11**

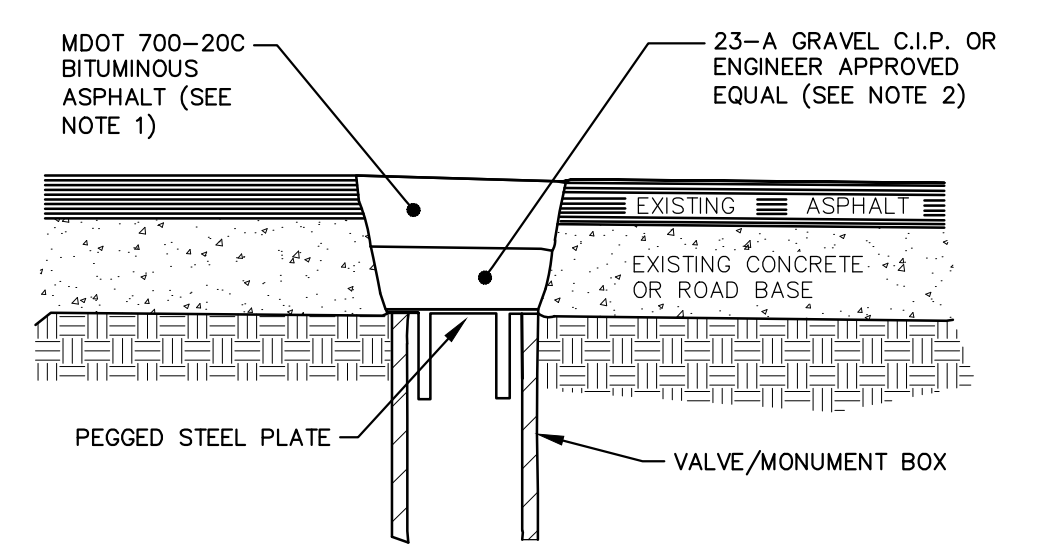


- MEASUREMENT OF AREA  
W x L = AREA
- NOTE:
- DRIVE APPROACH TO BE CLASS 'A' CONCRETE.
  - R(RADIUS) AND W(DRIVE WIDTH) AS REQUIRED FOR ZONING BY CITY CODE
  - IF GUTTER IS OVERLAPPED, GUTTER OF THE APPROACH SHALL BE AT SAME ELEVATION AS EXISTING GUTTER AND ASPHALT WEDGE SHALL BE PLACED IN THE APPROACH.

**TYPE 'M' DRIVE APPROACH SD-R-6**



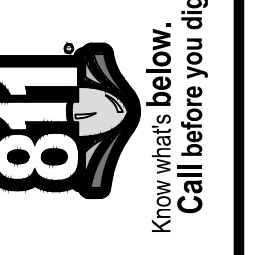
**MANHOLE LOWERING DETAIL**



**VALVE BOX/MONUMENT BOX LOWERING DETAIL**  
(SEE NOTE 3)

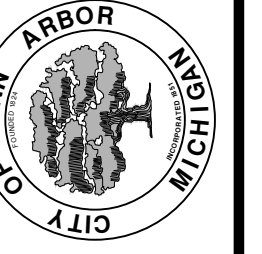
- NOTES:
- IF TRAFFIC IS TO BE MAINTAINED ON THE ROADWAY BEFORE OR AFTER THE COLD MILLING OPERATION, THE STRUCTURE SHALL BE LOWERED TO THE EXTENT THAT A MINIMUM OF THREE(3) INCHES ASPHALT MATERIAL MDOT 700-20C, OR ENGINEER APPROVED EQUAL, REMAINS TO SUPPORT TRAFFIC.
  - IF THE ROADWAY BEING MILLED IS CLOSED TO TRAFFIC, THE STRUCTURE SHALL BE LOWERED SUCH THAT THE STEEL PLATE IS A MINIMUM OF FOUR(4) INCHES BELOW THE PROPOSED ROAD GRADE AND THE RESULTING VOID SHALL BE FILLED WITH COMPACTED 23-A GRAVEL OR ENGINEER APPROVED EQUAL.
  - WHERE A MONUMENT IS TO BE LOWERED, THE CONTRACTOR SHALL GIVE THE ENGINEER A MINIMUM OF 48 HOURS WRITTEN NOTICE SO THAT THE MONUMENT CAN BE PROPERLY WITNESSED OR PROTECTED. FAILURE TO DO SO SHALL RESULT IN THE ENGINEER REPLACING SAID MONUMENT AT THE CONTRACTORS EXPENSE.

**MANHOLE & VALVE/MONUMENT BOX LOWERING**

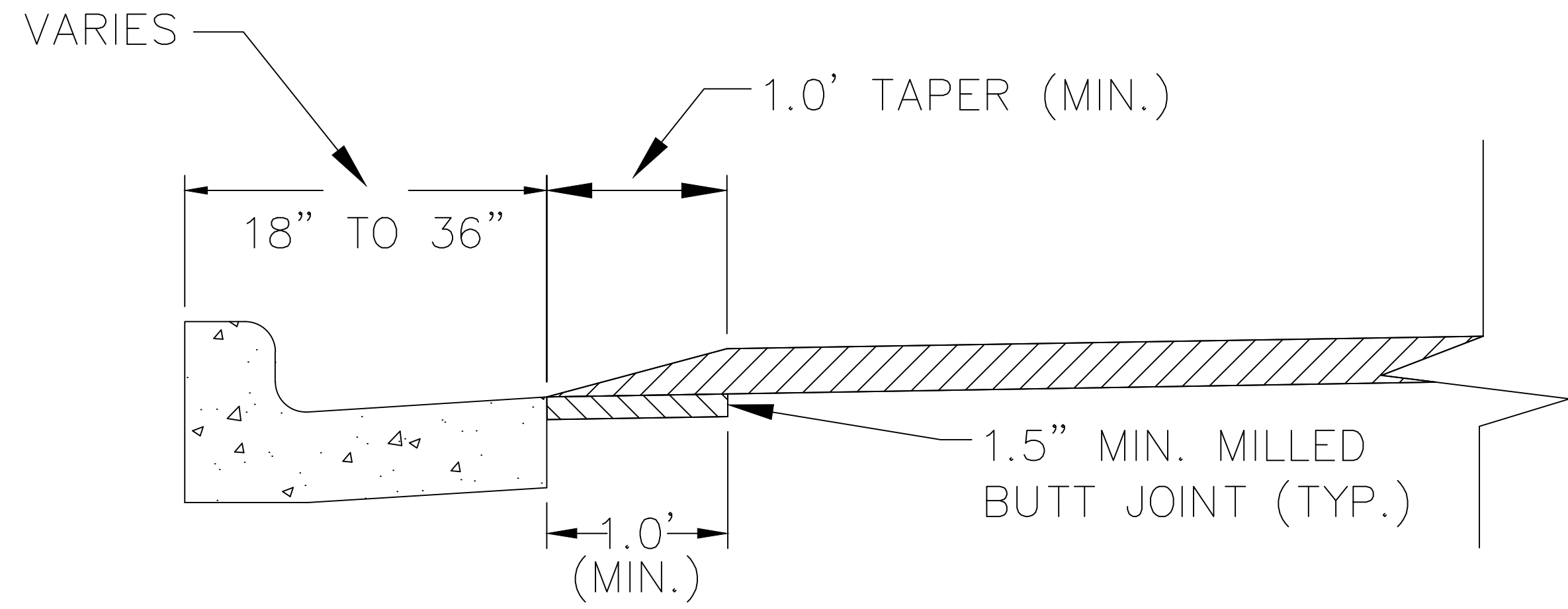


NO.	DATE	DESCRIPTION	REV.
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01	2-27-18	DRAWN	
02		CHECKED	

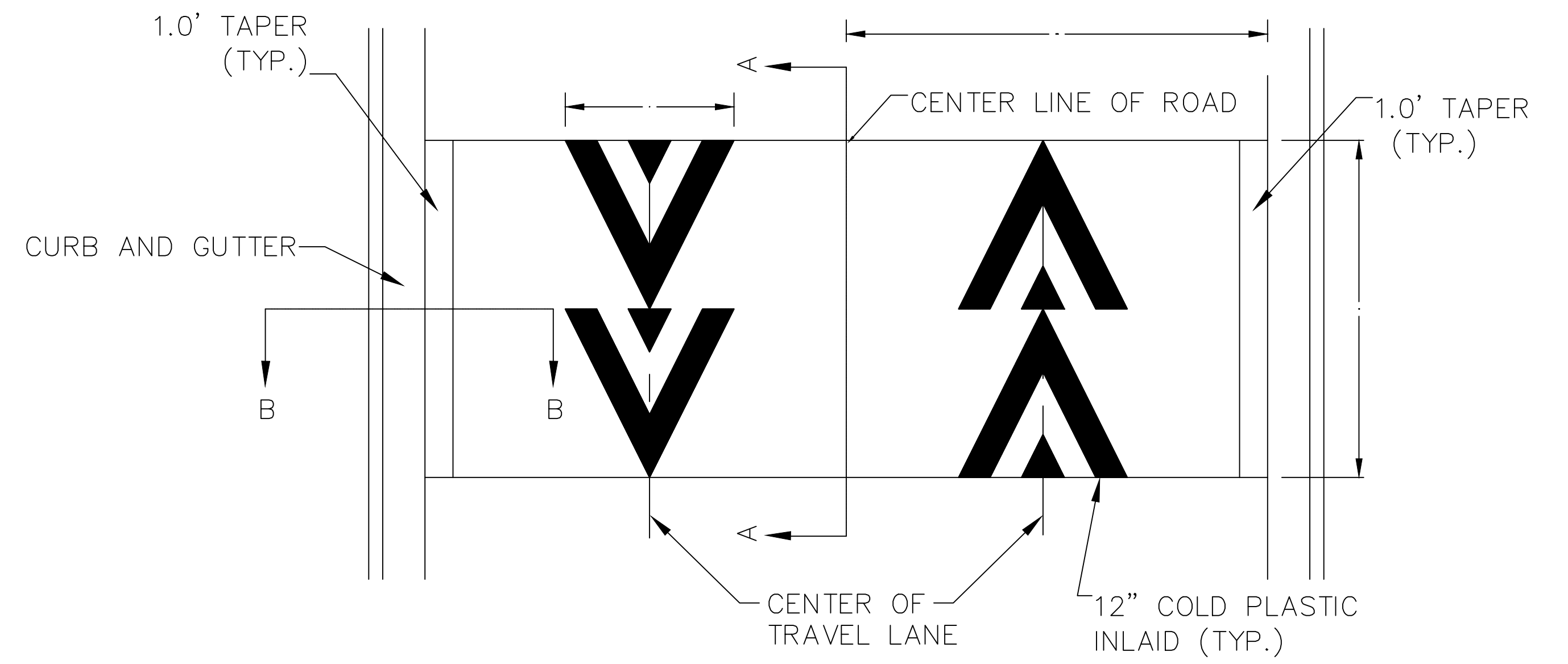
CITY OF ANN ARBOR  
PUBLIC SERVICES  
301 EAST HURON STREET  
ANN ARBOR MI 48106-8647  
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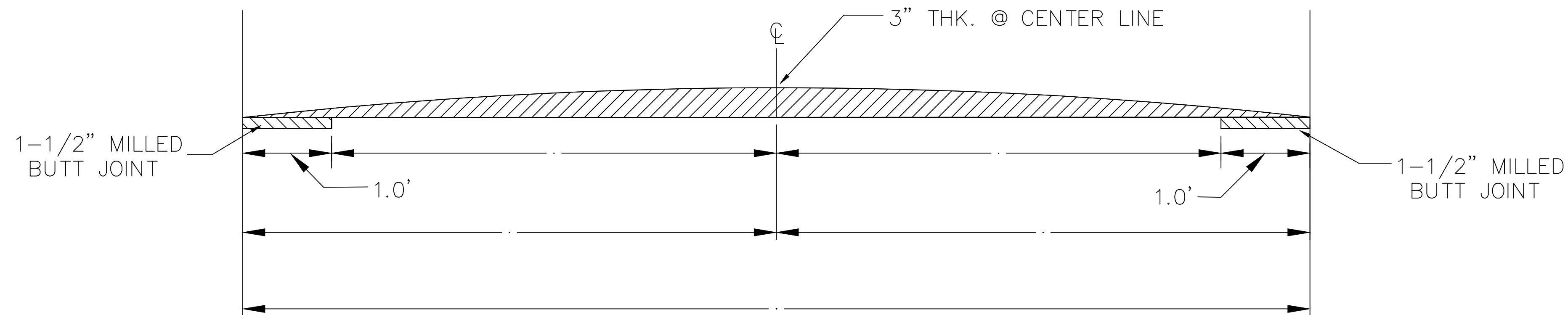
CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING  
ANNUAL STREET RESURFACING - 2018  
#####



SPEED HUMP CROSS SECTION  
SECTION B-B



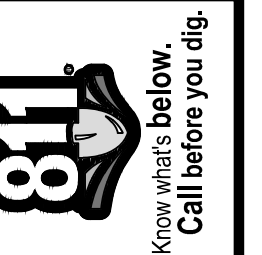
PAVEMENT MARKING DETAIL



SPEED HUMP CROSS SECTION  
SECTION A-A

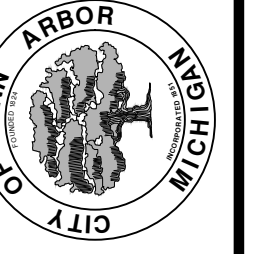
GENERAL NOTES

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



REV.	00	BID SET	DESCRIPTION
DATE	2-27-18	GSCCE	DRAWN
CHECKED		DAD	CHECKED

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PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR  
ANNUAL STREET RESURFACING - 2018  
TRAFFIC CALMING DETAIL

SCALE PLAN: NONE  
DRAWING No. 2018004-5



# CITY OF ANN ARBOR ENGINEERING

## PROJECT LOCATION: BARDSTOWN TRAIL

ITB No. 4529 FILE No. 2018004

### 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.
- 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 4 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.
- 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 ENGINEER.
- PAVE 2 INCHES OF THE BITUMINOUS MIX AS SPECIFIED OR DIRECTED, AS THE LEVELING COURSE, IN ONE LIFT.
- ADJUST ALL STRUCTURE COVERS, MONUMENT BOXES, AND VALVE BOXES TO THEIR FINISHED ELEVATIONS.
- PAVE 2 INCH OF THE BITUMINOUS MIX AS SPECIFIED OR DIRECTED, AS THE WEARING COURSE, IN ONE LIFT.
- COMPLETE ALL PAVEMENT MARKINGS IN ACCORDANCE WITH THE PLANS, AND AS DIRECTED BY THE ENGINEER.
- COMPLETE ALL MISCELLANEOUS CONSTRUCTION INCLUDING ALL CLEAN-UP AND FINAL RESTORATION.
- 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.

QUANTITIES			
ITEM #	DESCRIPTION	Units	Total
206	Remove HMA Pavement	S.Y.	
207	Cold Milling Pavement	S.Y.	
209	Subgrade Undercutting - Type II	C.Y.	
220	HMA Patching	Tons	
222	HMA Pavement Leveling, Regular	Tons	
224	HMA Pavement Wearing, 36A	Tons	
230	Rem. Curb & Gutter, Any Type	L.F.	
232	Rem. Conc. Sidewalk & Drive - Any Thickness	S.F.	
237	Conc. Curb & Gutter - Any Type - Fixed Form	L.F.	
240	4" Sidewalk or Ramp	S.F.	
241	6" Drive, Sidewalk or Ramp	S.F.	
245	Detectable Warning, Cast in Place	S.F.	
247	Integral Sidewalk Ret. Wall (6"-18")	S.F.	
250	2' Dia. Structure	Each	
254	Lower Structure Cover	Each	
255	Lower Mon./Gate Valve Box	Each	
256	Adjust Structure Cover	Each	
257	Adjust Curb Inlet Structure Cover	Each	
258	Adjust Mon. or Gate Valve Box	Each	
259	Manhole Flange & Cover (MDOT Type A)	Each	
261	Pt. Drain Structures	Each	
264	12" Sewer, Trench Detail I, Modified	L.F.	
268	Flowable Fill	C.Y.	
271	21AA Limestone - C.I.P.	C.Y.	
282	Plastic Drum - Lighted - Furn. & Operate	Each	
283	Barricade Type III - Furn. & Operate	Each	
284	Temp Signs Type - B	S.F.	
285	No Parking Sign	Each	
291	12" Thermo. White or Yellow	L.F.	
594	4" White Thermo.	L.F.	
595	4" Yellow Thermo.	L.F.	
596	6" White Thermo.	L.F.	
597	24" White Thermo.	L.F.	
598	Pvmt. Marking Symbol	Each	

TRAFFIC CONTROL & SIGN LEGEND		
QTY.	TYPE	DESCRIPTION
	W20-1	"ROAD WORK AHEAD"
	W20-3	"ROAD CLOSED AHEAD"
	D3-1	CONVENTIONAL GUIDE
	TYPE III	TYPE III LIGHTED BARRICADE
	R11-4	Road Closed to Thru Traffic
	TYPE II	TYPE II BARRICADE DRUM

CONSTRUCTION KEY	
KEY	ASSOCIATED PAY ITEM(S)
AA	• _Dr Structure, Adj, Case 1, Modified • _Dr Structure, Adj, Case 2, Modified • _Dr Structure, Temp Lowering, Modified
AB	• _Dr Structure, Temp Lowering, Modified • _Gate Box, Adj, Case 1 • _Gate Box, Adj, Case 2 • Monument Box Adjust
ADST	• _Dr Structure, Adj, Add Depth, Modified
AK	• _Dr Structure, Adj, Case 1, Modified
C4	• _Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • _Grading, Sidewalk • _Sidewalk, Conc, 4 inch, Modified
C4HE	• _Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • _Grading, Sidewalk • Cement • _Sidewalk, Conc, 4 inch, Modified
C6	• _Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • _Grading, Sidewalk • _Grading, Sidewalk Ramp • Detectable Warning Surface, Modified • _Sidewalk Ramp, Conc, 6 inch, Modified • _Sidewalk, Conc, 6 inch, Modified
C8	• _Grading, Driveway Approach • _Driveway, Nonreinf Conc, 8 inch, Modified
C HE	• _Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • _Grading, Driveway Approach • _Grading, Sidewalk • _Grading, Sidewalk Ramp • Cement • _Driveway, Nonreinf Conc, 6 inch, Modified • _Driveway, Nonreinf Conc, 8 inch, Modified • Detectable Warning Surface, Modified • _Sidewalk Ramp, Conc, 6 inch, Modified • _Sidewalk, Conc, 6 inch, Modified
C/G	• _Curb, Gutter, and Curb and Gutter, Any Type, Rem • _Curb and Gutter, Conc
C/GHE	• _Curb, Gutter, and Curb and Gutter, Any Type, Rem • Cement • _Driveway Opening, Conc, Det M, Modified • _Grading, Sidewalk • _Sidewalk, Conc, 4 inch, Modified
CP	• _Sidewalk, Conc, 4 inch, Modified • _Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem
CR	• _Dr Structure, Rem
DS	• Sewer, Rem, Less than 24 inch • _Dr Structure, 24 inch dia • _Dr Structure, Rem
DSDI	• Sewer, Rem, Less than 24 inch • _Dr Structure, Double Inlet
PT	• _Dr Structure, Point
RRA	• _Dr Structure Cover, Type B • _Dr Structure Cover, Type B, Special • _Dr Structure, Adj, Case 1, Modified • _Dr Structure, Temp Lowering, Modified
RRK	• _Dr Structure Cover, Type K • _Dr Structure, Adj, Case 1, Modified
RS	• _Dr Structure, Reconstruct
TYPE II	• Plastic Drum, High Intensity, Lighted, Furn • Plastic Drum, High Intensity, Lighted, Oper
TYPE III	• Barricade, Type II, High Intensity, Double Sided, Lighted, Furn • Barricade, Type III, High Intensity, Double Sided, Lighted, Oper



REV.	DATE	DESCRIPTION
00	2-27-18	BID SET
		DRAWN
		CHECKED

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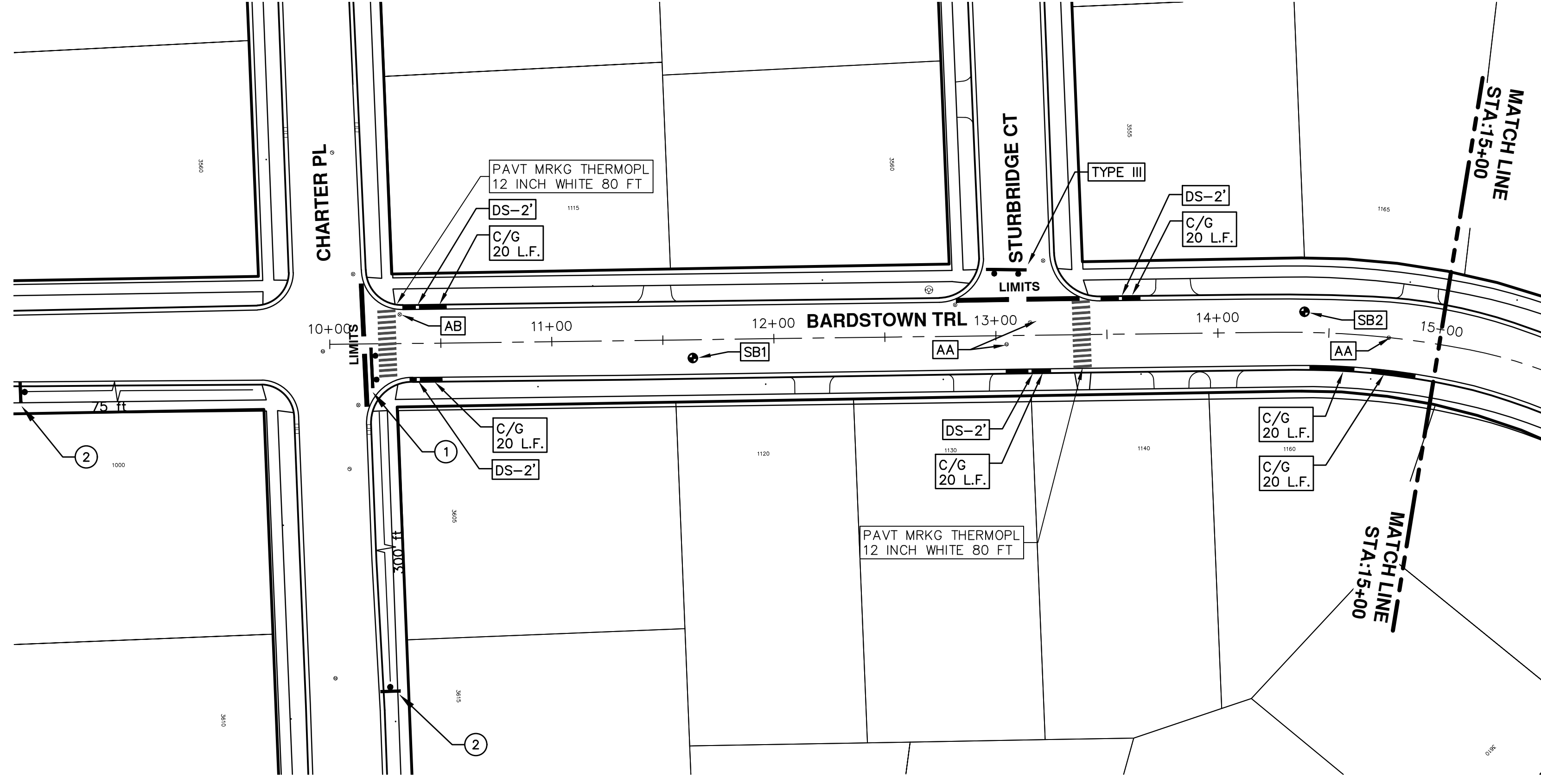
ENGINEERING - PUBLIC SERVICES - CITY OF ANN ARBOR  
ANNUAL STREET RESURFACING - 2018  
BARDSTOWN TRAIL

DRAWING No. 2018004-6  
SHEET No. 6 OF 72



**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

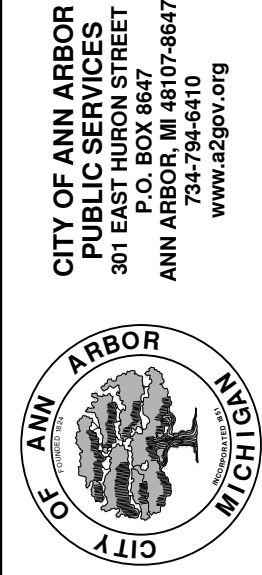
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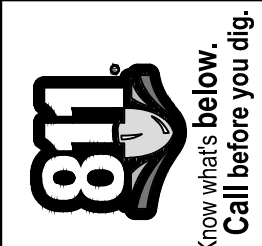
TRAFFIC CONTROL SIGN		
	SIGN	NUMBER
①	 ROAD CLOSED LOCAL TRAFFIC ONLY W/ TYPE III BARRICADE	R11-3a 60x30"
②	 ROAD CLOSED AHEAD BARDSTOWN TRL	W20-3 36"x36"  D3-1 36"x36"

ENGINEERING - PUBLIC SERVICES - CITY OF ANN ARBOR  
 SCALE PLAN: Custom  
 DRAWING No. 2018004-7

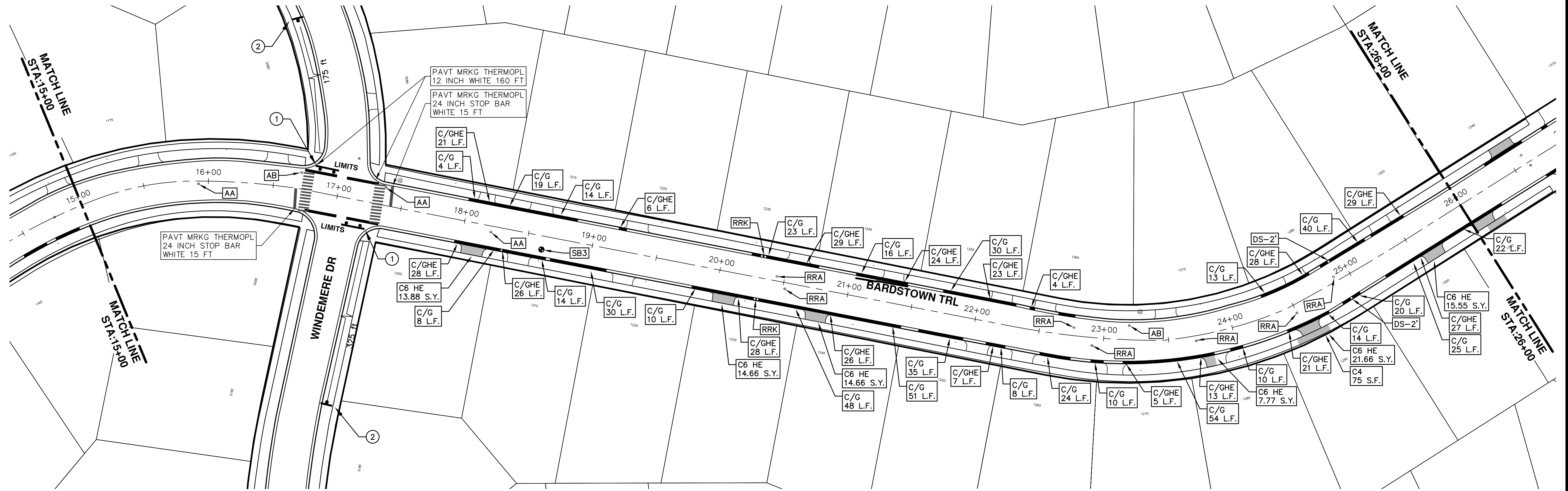
ANNUAL STREET RESURFACING - 2018  
 BARDSTOWN TRAIL  
 STA. 10+00 - STA. 15+00



REV.	BID SET	DESCRIPTION	DATE	DRAWN	CHECKED
00			2-27-18	GSLCE	DAD



T:\2018004\Plan Production\2018004 - Bardstown Trail.dwg Dwg Created: 21-Sep-17 - \_02 standard bw.stb - Plot Date: 27-Feb-18

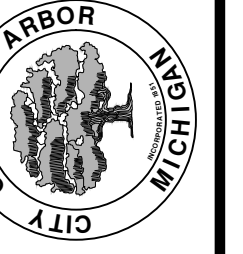


TRAFFIC CONTROL SIGN		
	SIGN	NUMBER
①	 ROAD CLOSED LOCAL TRAFFIC ONLY W/ TYPE III BARRICADE	R11-3a 60x30
②	 ROAD CLOSED AHEAD   BARDSTOWN TRL	W20-3 36"x36"  D3-1 36"x36"



REV.	DESCRIPTION	DATE	DRAWN	CHECKED
00	BID SET	2-27-18	GSLCE	DAD

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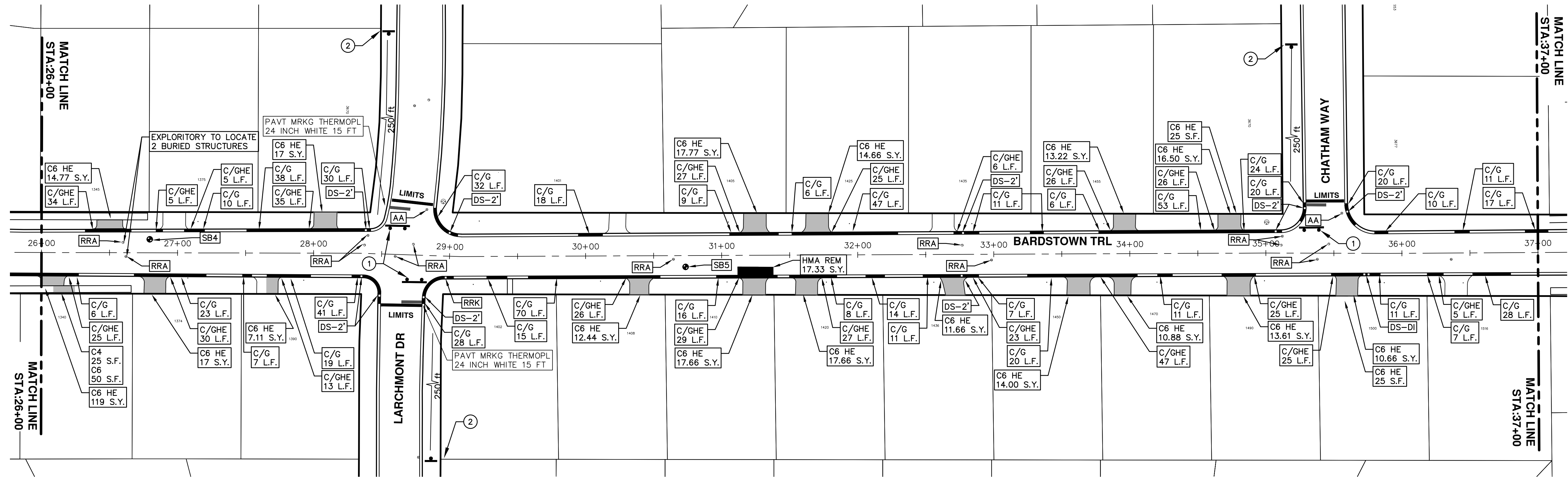


**ENGINEERING - PUBLIC SERVICES - CITY OF ANN ARBOR**  
ANNUAL STREET RESURFACING - 2018  
BARDSTOWN TRAIL  
STA. 15+00 - STA. 26+00

SCALE PLAN: 1"=80'  
DRAWING No. 2018004-8  
SHEET No.



T:\2018004\Plan Production\2018004 - Bardstown Trail.dwg Dwg Created: 21-Sep-17 - \_02 standard bw.stb - Plot Date: 27-Feb-18



TRAFFIC CONTROL SIGN		
	SIGN	NUMBER
①	ROAD CLOSED LOCAL TRAFFIC ONLY W/ TYPE III BARRICADE	R11-3c 60x30
②	ROAD CLOSED AHEAD BARDSTOWN TRL	W20-3 36"x36" D3-1 36"x36"

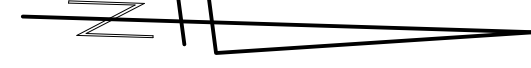
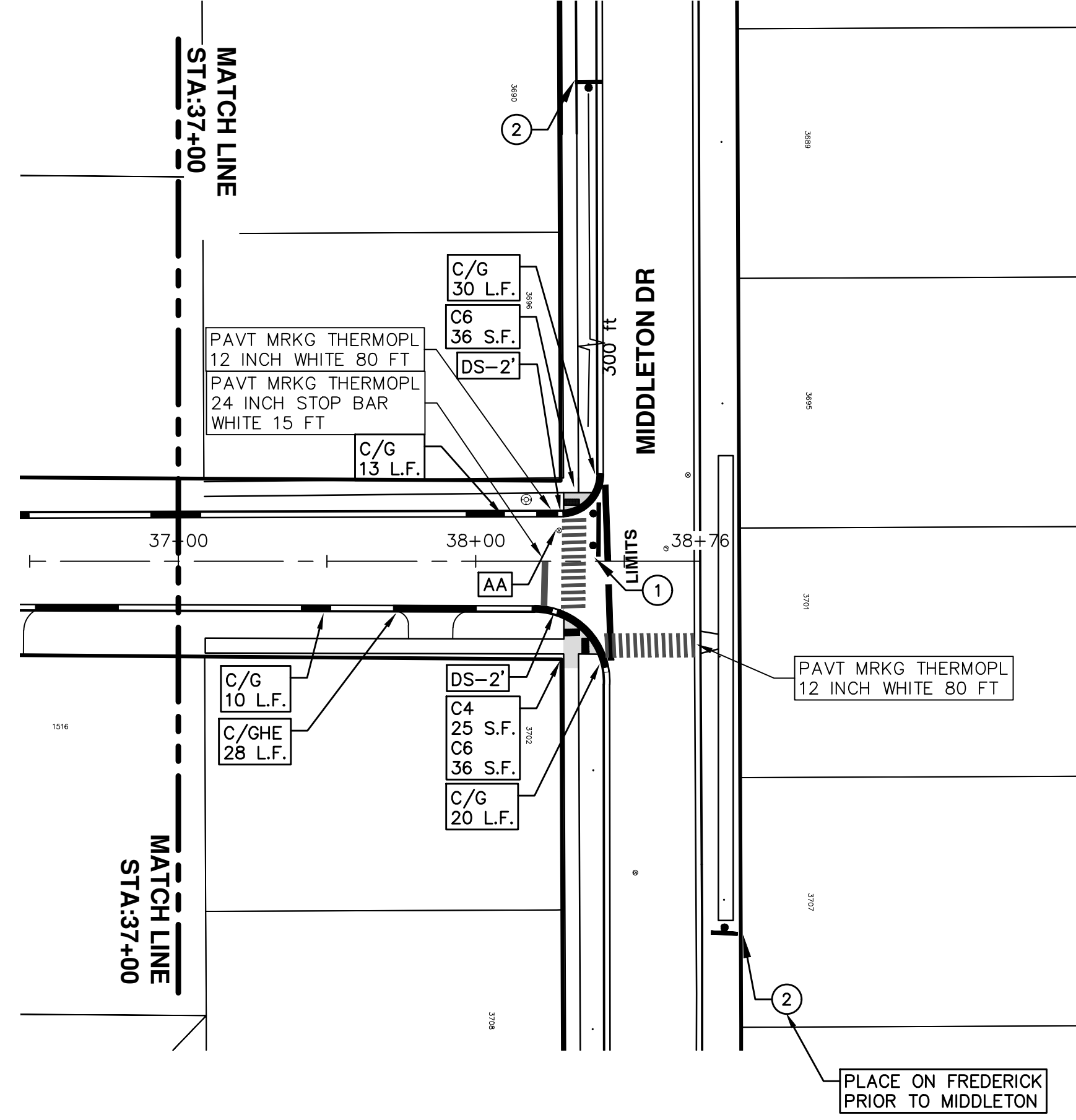
**ENGINEERING - PUBLIC SERVICES - CITY OF ANN ARBOR**  
ANNUAL STREET RESURFACING - 2018  
BARDSTOWN TRAIL  
STA. 26+00 - STA. 37+00

SCALE PLAN: 1"=80'  
DRAWING No. 2018004-9  
SHEET No. 9 OF 72

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

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ANN ARBOR, MI 48106-0647  
ANN ARBOR 734-794-4410  
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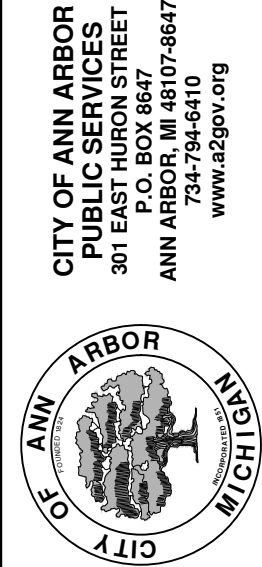
REV. DESCRIPTION DATE DRAWN CHECKED  
00 BID SET 2-27-18 GSC/CE DAD



TRAFFIC CONTROL SIGN		
	SIGN	NUMBER
①	 W/ TYPE III BARRICADE	R11-3a 60x30
②	 BARDSTOWN TRL	W20-3 36"x36" D3-1 36"x36"

ENGINEERING - PUBLIC SERVICES - CITY OF ANN ARBOR  
 SCALE PLAN: 1"=80'  
 DRAWING No. 2018004-10

ANNUAL STREET RESURFACING - 2018  
 BARDSTOWN TRAIL  
 STA. 37+00 - STA. 38+76



REV.	DESCRIPTION	DATE	DRAWN	CHECKED
00	BID SET	2-27-18	GSLCE	DAD





# CITY OF ANN ARBOR ENGINEERING

## PROJECT LOCATION: BARRISTER DRIVE

ITB No. 4529 FILE No. 2018004

### 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.
5. PERFORM ALL CONCRETE WORK, INCLUDING RESTORATION, IN ACCORDANCE WITH THE PLANS, AND AS DIRECTED BY THE ENGINEER.
6. MILL 4 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 2 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.

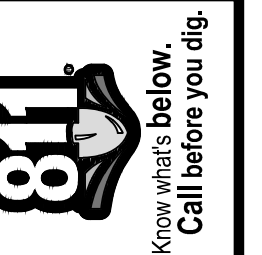
QUANTITIES			
ITEM #	DESCRIPTION	Units	Total
206	Remove HMA Pavement	S.Y.	
207	Cold Milling Pavement	S.Y.	
209	Subgrade Undercutting - Type II	C.Y.	
220	HMA Patching	Tons	
222	HMA Pavement Leveling, Regular	Tons	
224	HMA Pavement Wearing, 36A	Tons	
230	Rem. Curb & Gutter, Any Type	L.F.	
232	Rem. Conc. Sidewalk & Drive - Any Thickness	S.F.	
237	Conc. Curb & Gutter - Any Type - Fixed Form	L.F.	
240	4" Sidewalk or Ramp	S.F.	
241	6" Drive, Sidewalk or Ramp	S.F.	
245	Detectable Warning, Cast in Place	S.F.	
247	Integral Sidewalk Ret. Wall (6"-18")	S.F.	
250	2" Dia. Structure	Each	
254	Lower Structure Cover	Each	
255	Lower Mon./Gate Valve Box	Each	
256	Adjust Structure Cover	Each	
257	Adjust Curb Inlet Structure Cover	Each	
258	Adjust Mon. or Gate Valve Box	Each	
259	Manhole Flange & Cover (MDOT Type A)	Each	
261	Pt. Drain Structures	Each	
264	12" Sewer, Trench Detail I, Modified	L.F.	
268	Flowable Fill	C.Y.	
271	21AA Limestone - C.I.P.	C.Y.	
282	Plastic Drum - Lighted - Furn. & Operate	Each	
283	Barricade Type III - Furn. & Operate	Each	
284	Temp Signs Type - B	S.F.	
285	No Parking Sign	Each	
291	12" Thermo. White or Yellow	L.F.	
594	4" White Thermo.	L.F.	
595	4" Yellow Thermo.	L.F.	
596	6" White Thermo.	L.F.	
597	24" White Thermo.	L.F.	
598	Pvmt. Marking Symbol	Each	

TRAFFIC CONTROL & SIGN LEGEND		
QTY.	TYPE	DESCRIPTION
	W20-1	"ROAD WORK AHEAD"
	W20-3	"ROAD CLOSED AHEAD"
	D3-1	CONVENTIONAL GUIDE
	TYPE III	TYPE III LIGHTED BARRICADE
	R11-4	Road Closed to Thru Traffic
	TYPE II	TYPE II BARRICADE DRUM

CONSTRUCTION KEY	
KEY	ASSOCIATED PAY ITEM(S)
AA	• _Dr Structure, Adj, Case 1, Modified • _Dr Structure, Adj, Case 2, Modified • _Dr Structure, Temp Lowering, Modified
AB	• _Dr Structure, Temp Lowering, Modified • _Gate Box, Adj, Case 1 • _Gate Box, Adj, Case 2 • Monument Box Adjust
ADST	• _Dr Structure, Adj, Add Depth, Modified
AK	• _Dr Structure, Adj, Case 1, Modified
C4	• _Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • _Grading, Sidewalk • _Sidewalk, Conc, 4 inch, Modified
C4HE	• _Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • _Grading, Sidewalk • Cement • _Sidewalk, Conc, 4 inch, Modified
C6	• _Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • _Grading, Sidewalk • _Grading, Sidewalk Ramp • _Detectable Warning Surface, Modified • _Sidewalk Ramp, Conc, 6 inch, Modified • _Sidewalk, Conc, 6 inch, Modified
C8	• _Grading, Driveway Approach • _Driveway, Nonreinf Conc, 8 inch, Modified
C.HE	• _Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • _Grading, Driveway Approach • _Grading, Sidewalk • _Grading, Sidewalk Ramp • Cement • _Driveway, Nonreinf Conc, 6 inch, Modified • _Driveway, Nonreinf Conc, 8 inch, Modified • _Detectable Warning Surface, Modified • _Sidewalk Ramp, Conc, 6 inch, Modified • _Sidewalk, Conc, 6 inch, Modified
C/G	• Curb, Gutter, and Curb and Gutter, Any Type, Rem • Curb and Gutter, Conc
C/GHE	• Curb, Gutter, and Curb and Gutter, Any Type, Rem • Cement • _Driveway Opening, Conc, Det M, Modified
CP	• _Grading, Sidewalk • _Sidewalk, Conc, 4 inch, Modified
CR	• _Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • _Dr Structure, Rem • Sewer, Rem, Less than 24 inch • _Dr Structure, 24 inch dia
DSDI	• _Dr Structure, Rem • Sewer, Rem, Less than 24 inch • _Dr Structure, Double Inlet
PT	• _Dr Structure, Point
RRA	• _Dr Structure Cover, Type B • _Dr Structure Cover, Type B, Special • _Dr Structure, Adj, Case 1, Modified • _Dr Structure, Temp Lowering, Modified
RRK	• _Dr Structure Cover, Type K • _Dr Structure, Adj, Case 1, Modified
RS	• _Dr Structure, Reconstruct
TYPE II	• Plastic Drum, High Intensity, Lighted, Furn • Plastic Drum, High Intensity, Lighted, Oper
TYPE III	• Barricade, Type III, High Intensity, Double Sided, Lighted, Furn • Barricade, Type III, High Intensity, Double Sided, Lighted, Oper

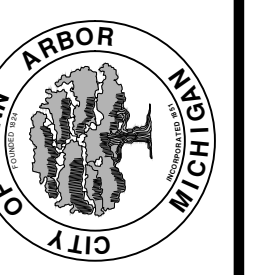


**ENGINEERING**  
CITY OF ANN ARBOR PUBLIC SERVICES  
301 EAST HURON STREET, P.O. BOX 8647  
ANN ARBOR, MICHIGAN 48107-8647  
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REV.	DATE	DESCRIPTION
00	2-27-18	BID SET
		DRAWN
		DAD
		CHECKED

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

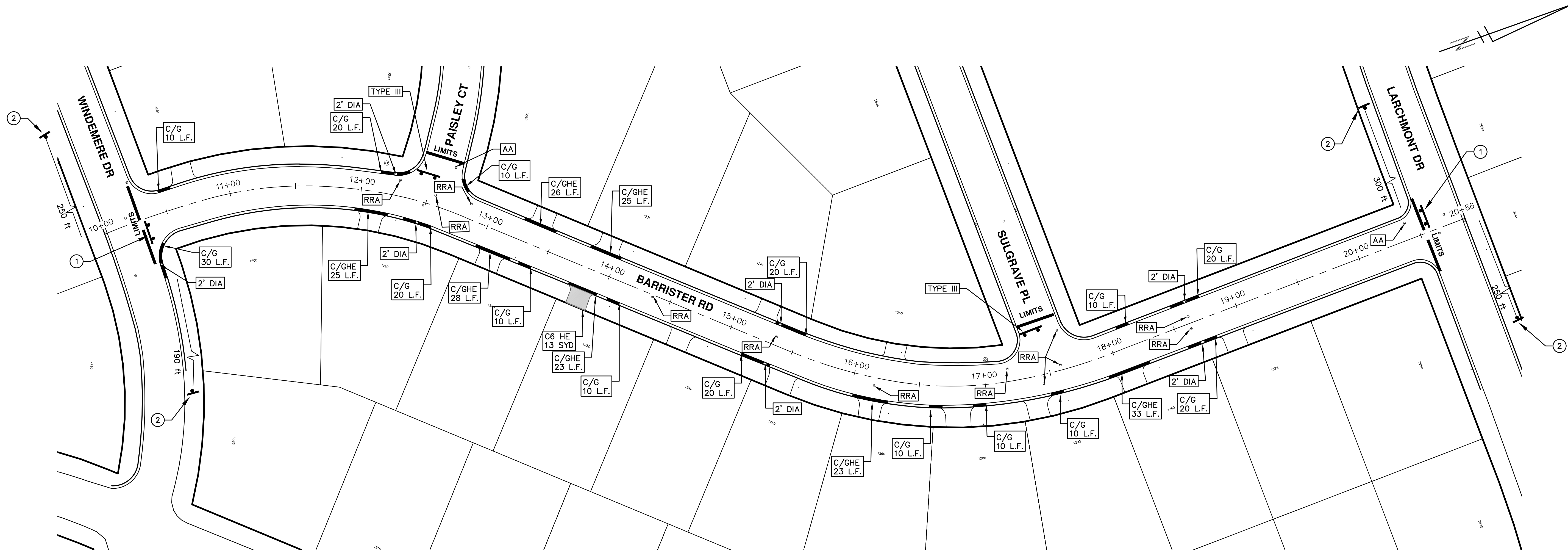


ENGINEERING - PUBLIC SERVICES - CITY OF ANN ARBOR  
ANNUAL STREET RESURFACING - 2018  
BARRISTER DRIVE

DRAWING No.  
2018004-11

T:\2018004\Plan Production\2018004 - Barrister Drive.dwg Dwg Created: 21-Sep-17 - a2 standard.bw.stb - Plot Date: 27-Feb-18

T:\2018004\Plan Production\2018004 - Barrister Drive.dwg Dwg Created: 21-Sep-17 - \_a2 standard bw.stb - Plot Date: 27-Feb-18



TRAFFIC CONTROL SIGN		
	SIGN	NUMBER
①	ROAD CLOSED LOCAL TRAFFIC ONLY W/ TYPE III BARRICADE	R11-3a 60x30
②	ROAD CLOSED AHEAD BARRISTER DR	W20-3 36"x36" D3-1 36"x36"

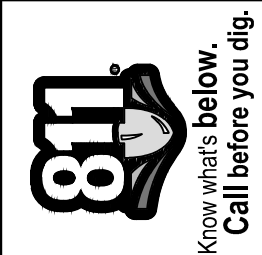
ENGINEERING - PUBLIC SERVICES - CITY OF ANN ARBOR  
 SCALE PLAN: 1"=40'  
 DRAWING No. 2018004-12

ANNUAL STREET RESURFACING - 2018  
 BARRISTER DRIVE  
 STA. 10+00 - STA. 20+86



CITY OF ANN ARBOR  
 PUBLIC SERVICES  
 301 EAST HURON STREET  
 ANN ARBOR, MI 48106-0667  
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REV.	DESCRIPTION	DATE	DRAWN	CHECKED
00	BID SET	2-27-18	GSC/CE	DAD





# CITY OF ANN ARBOR ENGINEERING

## PROJECT LOCATION: FAIRMOUNT DRIVE

ITB No. 4529 FILE No. 2018004

### 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.
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.

QUANTITIES			
ITEM #	DESCRIPTION	Units	Total
206	Remove HMA Pavement	S.Y.	
207	Cold Milling Pavement	S.Y.	
209	Subgrade Undercutting - Type II	C.Y.	
220	HMA Patching	Tons	
222	HMA Pavement Leveling, Regular	Tons	
224	HMA Pavement Wearing, 36A	Tons	
230	Rem. Curb & Gutter, Any Type	L.F.	
232	Rem. Conc. Sidewalk & Drive - Any Thickness	S.F.	
237	Conc. Curb & Gutter - Any Type - Fixed Form	L.F.	
240	4" Sidewalk or Ramp	S.F.	
241	6" Drive, Sidewalk or Ramp	S.F.	
245	Detectable Warning, Cast in Place	S.F.	
247	Integral Sidewalk Ret. Wall (6"-18")	S.F.	
250	2" Dia. Structure	Each	
254	Lower Structure Cover	Each	
255	Lower Mon./Gate Valve Box	Each	
256	Adjust Structure Cover	Each	
257	Adjust Curb Inlet Structure Cover	Each	
258	Adjust Mon. or Gate Valve Box	Each	
259	Manhole Flange & Cover (MDOT Type A)	Each	
261	Pt. Drain Structures	Each	
264	12" Sewer, Trench Detail I, Modified	L.F.	
268	Flowable Fill	C.Y.	
271	21AA Limestone - C.I.P.	C.Y.	
282	Plastic Drum - Lighted - Furn. & Operate	Each	
283	Barricade Type III - Furn. & Operate	Each	
284	Temp Signs Type - B	S.F.	
285	No Parking Sign	Each	
291	12" Thermo. White or Yellow	L.F.	
594	4" White Thermo.	L.F.	
595	4" Yellow Thermo.	L.F.	
596	6" White Thermo.	L.F.	
597	24" White Thermo.	L.F.	
598	Pvmt. Marking Symbol	Each	

TRAFFIC CONTROL & SIGN LEGEND		
QTY.	TYPE	DESCRIPTION
	W20-1	"ROAD WORK AHEAD"
	W20-3	"ROAD CLOSED AHEAD"
	D3-1	CONVENTIONAL GUIDE
	TYPE III	TYPE III LIGHTED BARRICADE
	R11-4	Road Closed to Thru Traffic
	TYPE II	TYPE II BARRICADE DRUM

CONSTRUCTION KEY	
KEY	ASSOCIATED PAY ITEM(S)
AA	•_Dr Structure, Adj, Case 1, Modified •_Dr Structure, Adj, Case 2, Modified •_Dr Structure, Temp Lowering, Modified
AB	•_Dr Structure, Temp Lowering, Modified •_Gate Box, Adj, Case 1 •_Gate Box, Adj, Case 2 •_Monument Box Adjust
ADST	•_Dr Structure, Adj, Add Depth, Modified
AK	•_Dr Structure, Adj, Case 1, Modified
C4	•_Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem •_Grading, Sidewalk •_Sidewalk, Conc, 4 inch, Modified
C4HE	•_Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem •_Grading, Sidewalk •_Cement •_Sidewalk, Conc, 4 inch, Modified
C6	•_Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem •_Grading, Sidewalk •_Grading, Sidewalk Ramp •_Detectable Warning Surface, Modified •_Sidewalk Ramp, Conc, 6 inch, Modified •_Sidewalk, Conc, 6 inch, Modified
C8	•_Grading, Driveway Approach •_Driveway, Nonreinf Conc, 8 inch, Modified
C HE	•_Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem •_Grading, Driveway Approach •_Grading, Sidewalk •_Grading, Sidewalk Ramp •_Cement •_Driveway, Nonreinf Conc, 6 inch, Modified •_Driveway, Nonreinf Conc, 8 inch, Modified •_Detectable Warning Surface, Modified •_Sidewalk Ramp, Conc, 6 inch, Modified •_Sidewalk, Conc, 6 inch, Modified
C/G	•_Curb, Gutter, and Curb and Gutter, Any Type, Rem •_Curb and Gutter, Conc
C/GHE	•_Curb, Gutter, and Curb and Gutter, Any Type, Rem •_Cement •_Driveway Opening, Conc, Det M, Modified
CP	•_Grading, Sidewalk •_Sidewalk, Conc, 4 inch, Modified
CR	•_Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem
DS	•_Dr Structure, Rem •_Sewer, Rem, Less than 24 inch •_Dr Structure, 24 inch dia
DSDI	•_Dr Structure, Rem •_Sewer, Rem, Less than 24 inch •_Dr Structure, Double Inlet
PT	•_Dr Structure, Point
RRA	•_Dr Structure Cover, Type B •_Dr Structure Cover, Type B, Special •_Dr Structure, Adj, Case 1, Modified •_Dr Structure, Temp Lowering, Modified
RRK	•_Dr Structure Cover, Type K •_Dr Structure, Adj, Case 1, Modified
RS	•_Dr Structure, Reconstruct
TYPE II	•_Plastic Drum, High Intensity, Lighted, Furn •_Plastic Drum, High Intensity, Lighted, Oper
TYPE III	•_Barricade, Type III, High Intensity, Double Sided, Lighted, Furn •_Barricade, Type III, High Intensity, Double Sided, Lighted, Oper

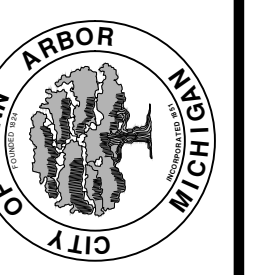


**ENGINEERING**  
CITY OF ANN ARBOR PUBLIC SERVICES  
301 EAST HURON STREET, P.O. BOX 8647  
ANN ARBOR, MICHIGAN 48107-8647  
734-794-6410 www.a2gov.org



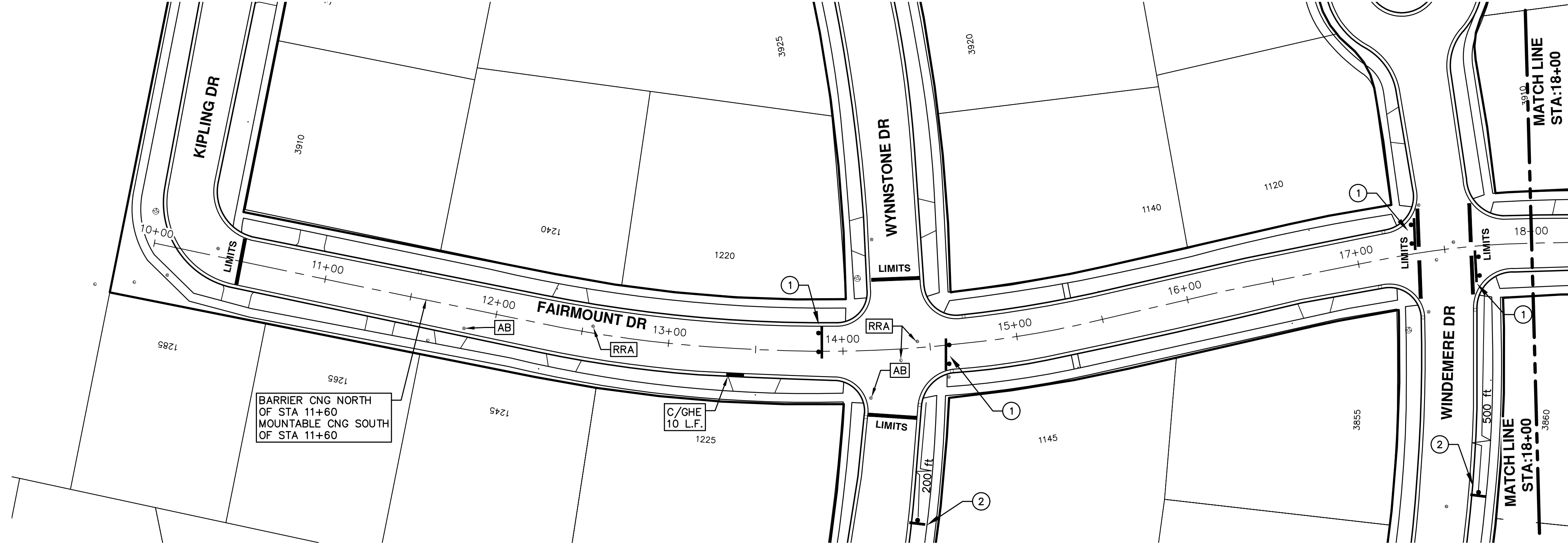
REV.	DATE	DESCRIPTION
00	2-27-18	BID SET
		DRAWN
		CHECKED

CITY OF ANN ARBOR  
PUBLIC SERVICES  
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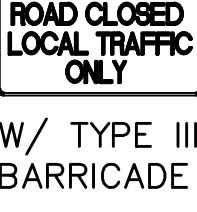

ENGINEERING - PUBLIC SERVICES - CITY OF ANN ARBOR  
ANNUAL STREET RESURFACING - 2018  
FAIRMOUNT DRIVE

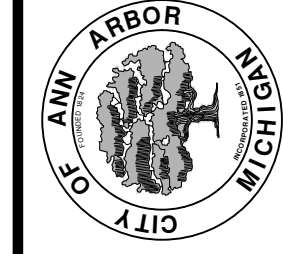
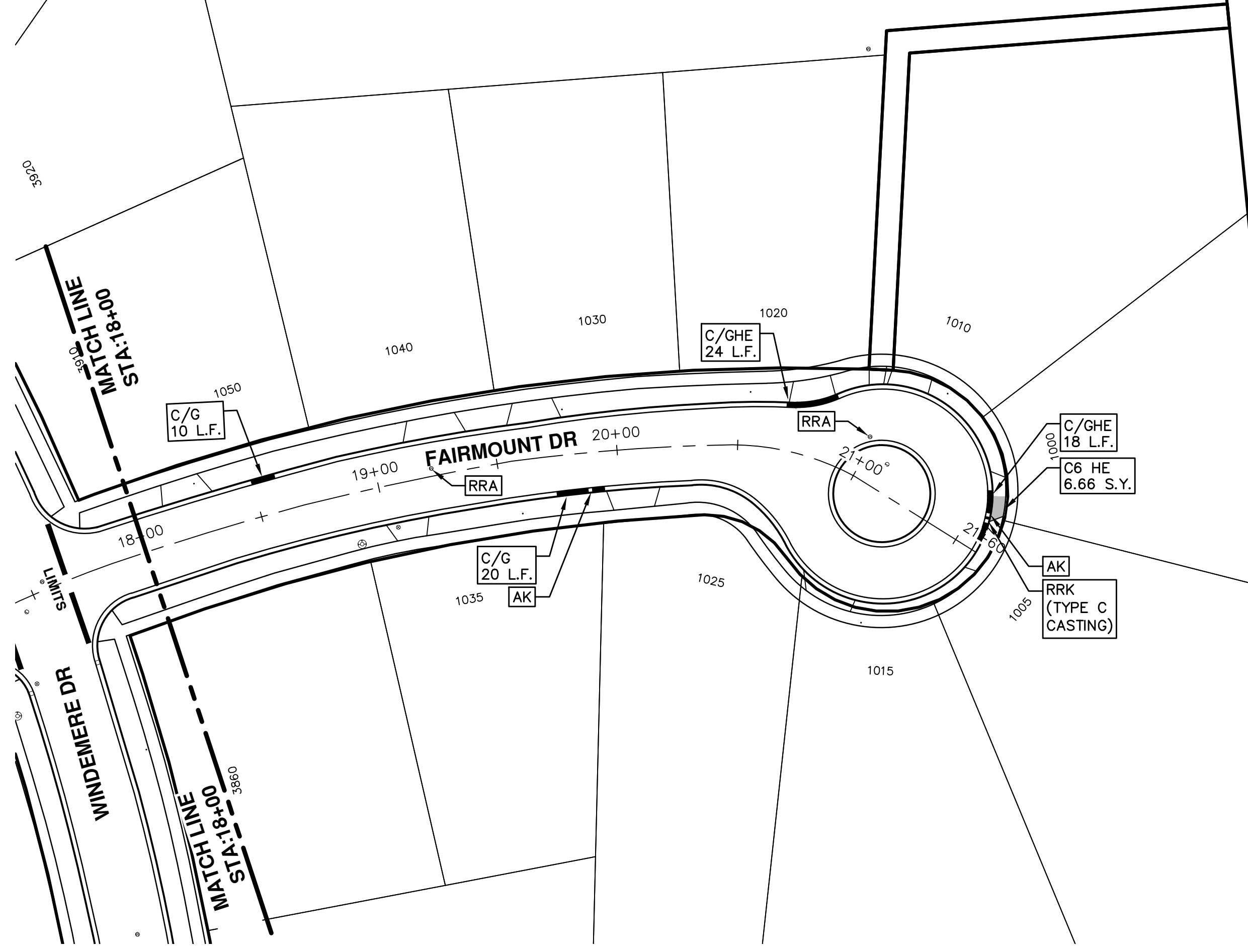
DRAWING No. 2018004-13  
SHEET No. 13 OF 72



BARRIER CNG NORTH OF STA 11+60  
MOUNTABLE CNG SOUTH OF STA 11+60

C/GHE  
10 L.F.

TRAFFIC CONTROL SIGN		
	SIGN	NUMBER
①	 W/ TYPE III BARRICADE	R11-3a 60"x30"
②	 FAIRMOUNT DR	W20-3 36"x36"  D3-1 36"x36"



CITY OF ANN ARBOR  
 PUBLIC SERVICES  
 301 EAST HURON STREET  
 ANN ARBOR, MI 48106-3667  
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REV.	DESCRIPTION	DATE	DRAWN	CHECKED
00	BID SET	2-27-18	GSLCE	DAD





# CITY OF ANN ARBOR ENGINEERING

## PROJECT LOCATION: KIPLING DRIVE

ITB No. 4529 FILE No. 2018004

### 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.
5. PERFORM ALL CONCRETE WORK, INCLUDING RESTORATION, IN ACCORDANCE WITH THE PLANS, AND AS DIRECTED BY THE ENGINEER.
6. MILL 4 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 2 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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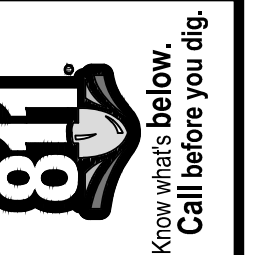
QUANTITIES			
ITEM #	DESCRIPTION	Units	Total
206	Remove HMA Pavement	S.Y.	
207	Cold Milling Pavement	S.Y.	
209	Subgrade Undercutting - Type II	C.Y.	
220	HMA Patching	Tons	
222	HMA Pavement Leveling, Regular	Tons	
224	HMA Pavement Wearing, 36A	Tons	
230	Rem. Curb & Gutter, Any Type	L.F.	
232	Rem. Conc. Sidewalk & Drive - Any Thickness	S.F.	
237	Conc. Curb & Gutter - Any Type - Fixed Form	L.F.	
240	4" Sidewalk or Ramp	S.F.	
241	6" Drive, Sidewalk or Ramp	S.F.	
245	Detectable Warning, Cast in Place	S.F.	
247	Integral Sidewalk Ret. Wall (6"-18")	S.F.	
250	2" Dia. Structure	Each	
254	Lower Structure Cover	Each	
255	Lower Mon./Gate Valve Box	Each	
256	Adjust Structure Cover	Each	
257	Adjust Curb Inlet Structure Cover	Each	
258	Adjust Mon. or Gate Valve Box	Each	
259	Manhole Flange & Cover (MDOT Type A)	Each	
261	Pt. Drain Structures	Each	
264	12" Sewer, Trench Detail I, Modified	L.F.	
268	Flowable Fill	C.Y.	
271	21AA Limestone - C.I.P.	C.Y.	
282	Plastic Drum - Lighted - Furn. & Operate	Each	
283	Barricade Type III - Furn. & Operate	Each	
284	Temp Signs Type - B	S.F.	
285	No Parking Sign	Each	
291	12" Thermo. White or Yellow	L.F.	
594	4" White Thermo.	L.F.	
595	4" Yellow Thermo.	L.F.	
596	6" White Thermo.	L.F.	
597	24" White Thermo.	L.F.	
598	Pvmt. Marking Symbol	Each	

TRAFFIC CONTROL & SIGN LEGEND		
QTY.	TYPE	DESCRIPTION
	W20-1	"ROAD WORK AHEAD"
	W20-3	"ROAD CLOSED AHEAD"
	D3-1	CONVENTIONAL GUIDE
	TYPE III	TYPE III LIGHTED BARRICADE
	R11-4	Road Closed to Thru Traffic
	TYPE II	TYPE II BARRICADE DRUM

CONSTRUCTION KEY	
KEY	ASSOCIATED PAY ITEM(S)
AA	• _Dr Structure, Adj, Case 1, Modified • _Dr Structure, Adj, Case 2, Modified • _Dr Structure, Temp Lowering, Modified
AB	• _Dr Structure, Temp Lowering, Modified • _Gate Box, Adj, Case 1 • _Gate Box, Adj, Case 2 • Monument Box Adjust
ADST	• _Dr Structure, Adj, Add Depth, Modified
AK	• _Dr Structure, Adj, Case 1, Modified
C4	• _Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • _Grading, Sidewalk • _Sidewalk, Conc, 4 inch, Modified
C4HE	• _Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • _Grading, Sidewalk • Cement • _Sidewalk, Conc, 4 inch, Modified
C6	• _Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • _Grading, Sidewalk • _Grading, Sidewalk Ramp • _Detectable Warning Surface, Modified • _Sidewalk Ramp, Conc, 6 inch, Modified • _Sidewalk, Conc, 6 inch, Modified
C8	• _Grading, Driveway Approach • _Driveway, Nonreinf Conc, 8 inch, Modified
C HE	• _Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • _Grading, Driveway Approach • _Grading, Sidewalk • _Grading, Sidewalk Ramp • Cement • _Driveway, Nonreinf Conc, 6 inch, Modified • _Driveway, Nonreinf Conc, 8 inch, Modified • _Detectable Warning Surface, Modified • _Sidewalk Ramp, Conc, 6 inch, Modified • _Sidewalk, Conc, 6 inch, Modified
C/G	• _Curb, Gutter, and Curb and Gutter, Any Type, Rem • _Curb and Gutter, Conc
C/GHE	• _Curb, Gutter, and Curb and Gutter, Any Type, Rem • Cement • _Driveway Opening, Conc, Det M, Modified
CP	• _Grading, Sidewalk • _Sidewalk, Conc, 4 inch, Modified
CR	• _Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem
DS	• Dr Structure, Rem • Sewer, Rem, Less than 24 inch • Dr Structure, 24 inch dia
DSDI	• Dr Structure, Rem • Sewer, Rem, Less than 24 inch • Dr Structure, Double Inlet
PT	• Dr Structure, Point
RRA	• Dr Structure Cover, Type B • _Dr Structure Cover, Type B, Special • _Dr Structure, Adj, Case 1, Modified • _Dr Structure, Temp Lowering, Modified
RRK	• Dr Structure Cover, Type K • _Dr Structure, Adj, Case 1, Modified
RS	• Dr Structure, Reconstruct
TYPE II	• Plastic Drum, High Intensity, Lighted, Furn • Plastic Drum, High Intensity, Lighted, Oper
TYPE III	• Barricade, Type III, High Intensity, Double Sided, Lighted, Furn • Barricade, Type III, High Intensity, Double Sided, Lighted, Oper

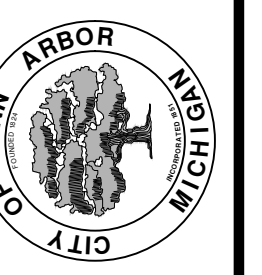


**ENGINEERING**  
CITY OF ANN ARBOR PUBLIC SERVICES  
301 EAST HURON STREET, P.O. BOX 8647  
ANN ARBOR, MICHIGAN 48107-8647  
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REV.	DESCRIPTION	DATE	DRAWN	CHECKED
00	BID SET	2-27-18	GSC/E	DAD

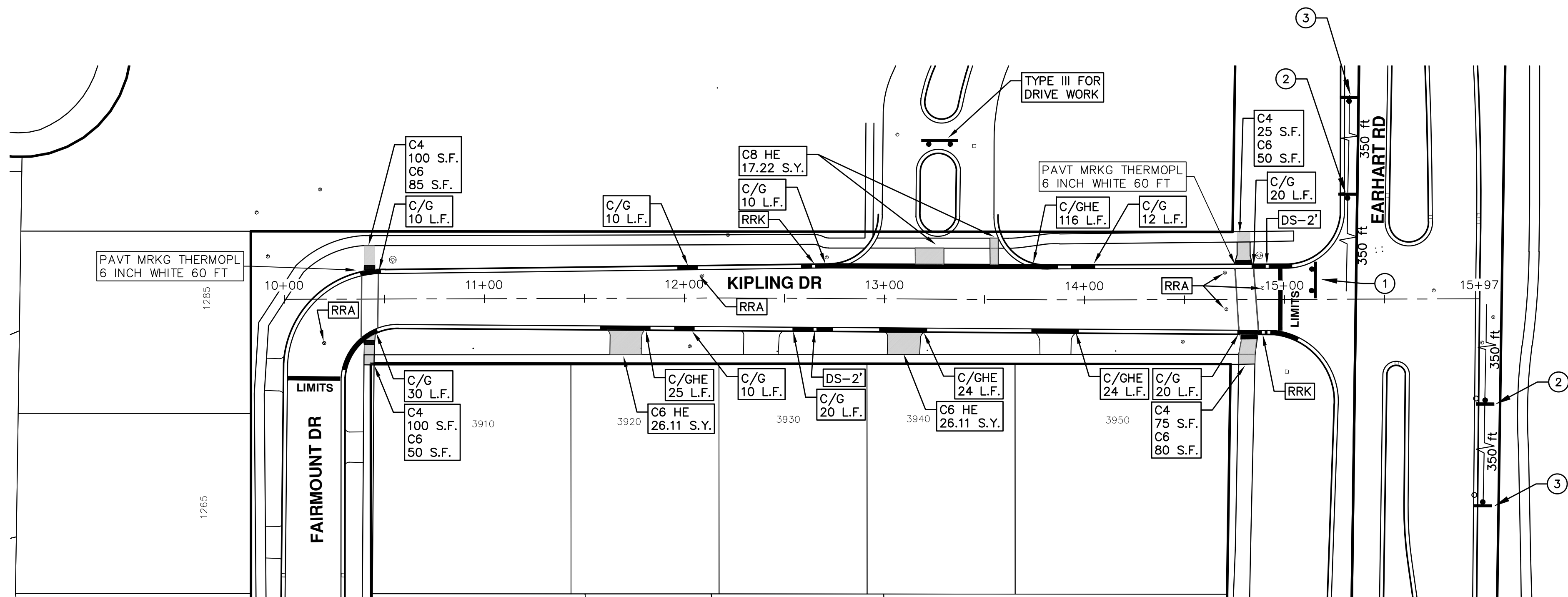
CITY OF ANN ARBOR  
PUBLIC SERVICES  
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ANN ARBOR, MI 48107-8647  
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ENGINEERING - PUBLIC SERVICES - CITY OF ANN ARBOR  
ANNUAL STREET RESURFACING - 2018  
KIPLING DRIVE

DRAWING No.  
2018004-16





TRAFFIC CONTROL SIGN		
	SIGN	NUMBER
①		R11-3a 60x30
②		W20-3 36"x36" D3-1 36"x36"
③		W20-1 36"x36" D3-1 36"x36"



CITY OF ANN ARBOR  
PUBLIC SERVICES  
301 EAST HURON STREET  
ANN ARBOR, MI 48106-0667  
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REV.	DESCRIPTION
00	BID SET
2-27-18	DATE

DAD	GSLCE	DATE	DRAWN	CHECKED





# CITY OF ANN ARBOR ENGINEERING

## PROJECT LOCATION: MACGREGOR LANE

ITB No. 4529 FILE No. 2018004

### 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.
5. PERFORM ALL CONCRETE WORK, INCLUDING RESTORATION, IN ACCORDANCE WITH THE PLANS, AND AS DIRECTED BY THE ENGINEER.
6. MILL 4 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 2 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.

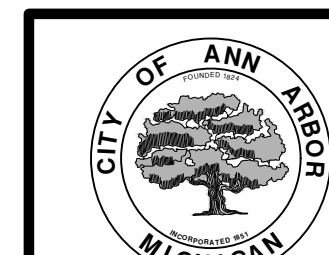
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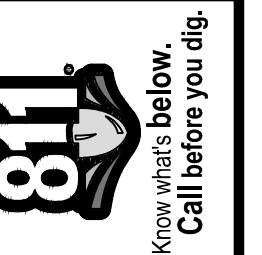
QUANTITIES			
ITEM #	DESCRIPTION	Units	Total
206	Remove HMA Pavement	S.Y.	
207	Cold Milling Pavement	S.Y.	
209	Subgrade Undercutting - Type II	C.Y.	
220	HMA Patching	Tons	
222	HMA Pavement Leveling, Regular	Tons	
224	HMA Pavement Wearing, 36A	Tons	
230	Rem. Curb & Gutter, Any Type	L.F.	
232	Rem. Conc. Sidewalk & Drive - Any Thickness	S.F.	
237	Conc. Curb & Gutter - Any Type - Fixed Form	L.F.	
240	4" Sidewalk or Ramp	S.F.	
241	6" Drive, Sidewalk or Ramp	S.F.	
245	Detectable Warning, Cast in Place	S.F.	
247	Integral Sidewalk Ret. Wall (6"-18")	S.F.	
250	2' Dia. Structure	Each	
254	Lower Structure Cover	Each	
255	Lower Mon./Gate Valve Box	Each	
256	Adjust Structure Cover	Each	
257	Adjust Curb Inlet Structure Cover	Each	
258	Adjust Mon. or Gate Valve Box	Each	
259	Manhole Flange & Cover (MDOT Type A)	Each	
261	Pt. Drain Structures	Each	
264	12" Sewer, Trench Detail I, Modified	L.F.	
268	Flowable Fill	C.Y.	
271	21AA Limestone - C.I.P.	C.Y.	
282	Plastic Drum - Lighted - Furn. & Operate	Each	
283	Barricade Type III - Furn. & Operate	Each	
284	Temp Signs Type - B	S.F.	
285	No Parking Sign	Each	
291	12" Thermo. White or Yellow	L.F.	
594	4" White Thermo.	L.F.	
595	4" Yellow Thermo.	L.F.	
596	6" White Thermo.	L.F.	
597	24" White Thermo.	L.F.	
598	Pvmt. Marking Symbol	Each	

TRAFFIC CONTROL & SIGN LEGEND		
QTY.	TYPE	DESCRIPTION
	W20-1	"ROAD WORK AHEAD"
	W20-3	"ROAD CLOSED AHEAD"
	D3-1	CONVENTIONAL GUIDE
	TYPE III	TYPE III LIGHTED BARRICADE
	R11-4	Road Closed to Thru Traffic
	TYPE II	TYPE II BARRICADE DRUM

CONSTRUCTION KEY	
KEY	ASSOCIATED PAY ITEM(S)
AA	• Dr Structure, Adj, Case 1, Modified • Dr Structure, Adj, Case 2, Modified • Dr Structure, Temp Lowering, Modified
AB	• Dr Structure, Temp Lowering, Modified • Gate Box, Adj, Case 1 • Gate Box, Adj, Case 2 • Monument Box Adjust
ADST	• Dr Structure, Adj, Add Depth, Modified
AK	• Dr Structure, Adj, Case 1, Modified
C4	• Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • Grading, Sidewalk • Sidewalk, Conc. 4 inch, Modified
C4HE	• Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • Grading, Sidewalk • Cement • Sidewalk, Conc. 4 inch, Modified
C6	• Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • Grading, Sidewalk • Detectable Warning Surface, Modified • Sidewalk Ramp, Conc. 6 inch, Modified • Sidewalk, Conc. 6 inch, Modified
C8	• Grading, Driveway Approach • Driveway, Nonreinf Conc. 8 inch, Modified
CHE	• Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • Grading, Driveway Approach • Grading, Sidewalk • Grading, Sidewalk Ramp • Cement • Driveway, Nonreinf Conc. 6 inch, Modified • Driveway, Nonreinf Conc. 8 inch, Modified • Detectable Warning Surface, Modified • Sidewalk Ramp, Conc. 6 inch, Modified • Sidewalk, Conc. 6 inch, Modified
C/G	• Curb, Gutter, and Curb and Gutter, Any Type, Rem • Curb and Gutter, Conc
C/GHE	• Curb, Gutter, and Curb and Gutter, Any Type, Rem • Cement • Driveway Opening, Conc. Det M, Modified
CP	• Grading, Sidewalk • Sidewalk, Conc. 4 inch, Modified
CR	• Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem
DS	• Dr Structure, Rem • Sewer, Rem, Less than 24 inch • Dr Structure, 24 inch dia
DSDI	• Dr Structure, Rem • Sewer, Rem, Less than 24 inch • Dr Structure, Double Inlet
PT	• Dr Structure, Point
RRA	• Dr Structure Cover, Type B • Dr Structure Cover, Type B, Special • Dr Structure, Adj, Case 1, Modified • Dr Structure, Temp Lowering, Modified
RRK	• Dr Structure Cover, Type K • Dr Structure, Adj, Case 1, Modified
RS	• Dr Structure, Reconstruct
TYPE II	• Plastic Drum, High Intensity, Lighted, Furn • Plastic Drum, High Intensity, Lighted, Oper
TYPE III	• Barricade, Type III, High Intensity, Double Sided, Lighted, Furn • Barricade, Type III, High Intensity, Double Sided, Lighted, Oper

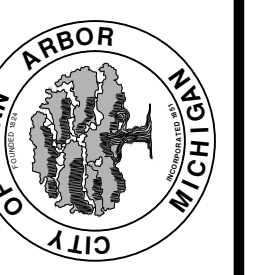


**ENGINEERING**  
CITY OF ANN ARBOR PUBLIC SERVICES  
301 EAST HURON STREET, P.O. BOX 8647  
ANN ARBOR, MICHIGAN 48107-8647  
734-794-6410 www.a2gov.org



REV.	DATE	DESCRIPTION
00	2-27-18	BID SET
		DRAWN
		CHECKED

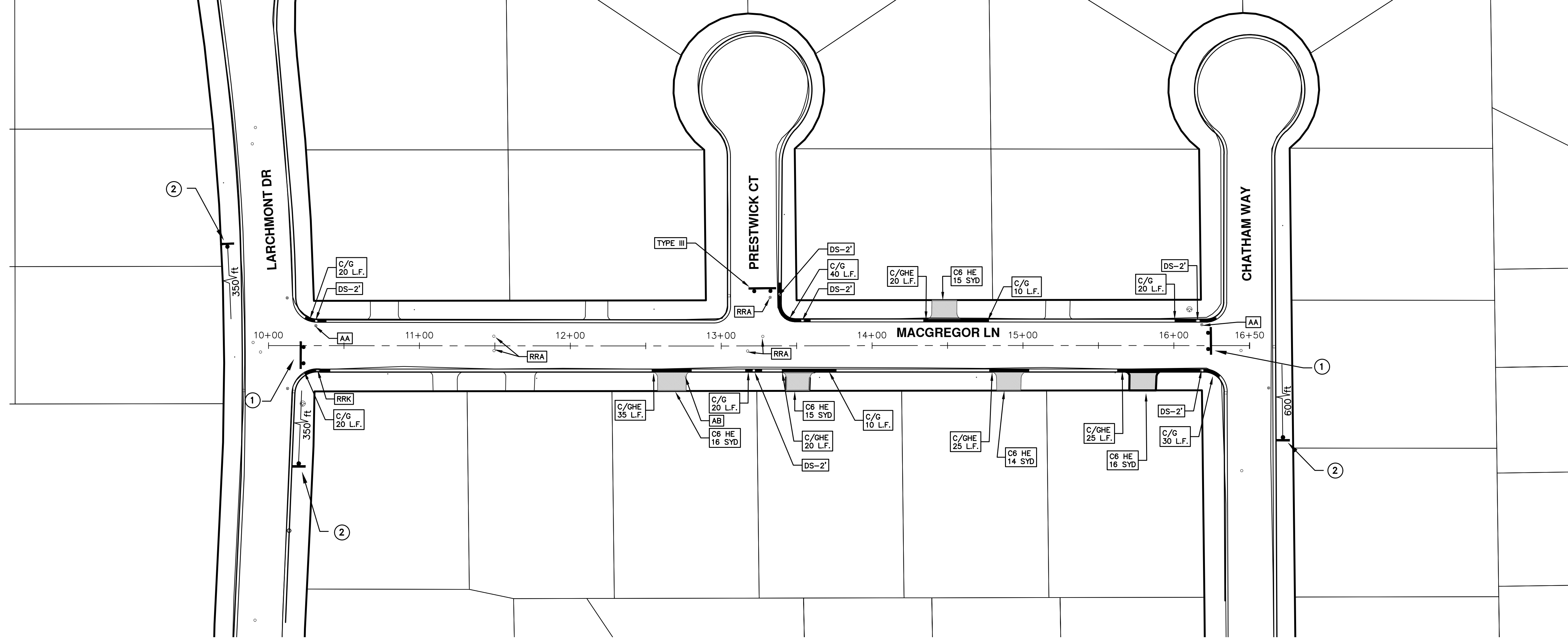
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ENGINEERING - PUBLIC SERVICES - CITY OF ANN ARBOR  
ANNUAL STREET RESURFACING - 2018  
MACGREGOR LANE

DRAWING No. 2018004-18  
SHEET No. 18 OF 72

T:\2018004\Plan Production\2018004 - MacGregor Lane.dwg Dwg Created: 22-Sep-17 - \_a2\_standard\_bw.stb - Plot Date: 27-Feb-18



TRAFFIC CONTROL SIGN		
	SIGN	NUMBER
①	 ROAD CLOSED LOCAL TRAFFIC ONLY W/ TYPE III BARRICADE	R11-3a 60x30
②	 ROAD CLOSED AHEAD   MACGREGOR LN	W20-3 36"x36"  D3-1 36"x36"





# CITY OF ANN ARBOR ENGINEERING

## PROJECT LOCATION: PRESTWICK COURT

ITB No. 4529 FILE No. 2018004

### 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.
5. PERFORM ALL CONCRETE WORK, INCLUDING RESTORATION, IN ACCORDANCE WITH THE PLANS, AND AS DIRECTED BY THE ENGINEER.
6. MILL 4 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 2 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.

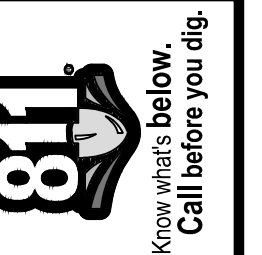
QUANTITIES			
ITEM #	DESCRIPTION	Units	Total
206	Remove HMA Pavement	S.Y.	
207	Cold Milling Pavement	S.Y.	
209	Subgrade Undercutting - Type II	C.Y.	
220	HMA Patching	Tons	
222	HMA Pavement Leveling, Regular	Tons	
224	HMA Pavement Wearing, 36A	Tons	
230	Rem. Curb & Gutter, Any Type	L.F.	
232	Rem. Conc. Sidewalk & Drive - Any Thickness	S.F.	
237	Conc. Curb & Gutter - Any Type - Fixed Form	L.F.	
240	4" Sidewalk or Ramp	S.F.	
241	6" Drive, Sidewalk or Ramp	S.F.	
245	Detectable Warning, Cast in Place	S.F.	
247	Integral Sidewalk Ret. Wall (6"-18")	S.F.	
250	2" Dia. Structure	Each	
254	Lower Structure Cover	Each	
255	Lower Mon./Gate Valve Box	Each	
256	Adjust Structure Cover	Each	
257	Adjust Curb Inlet Structure Cover	Each	
258	Adjust Mon. or Gate Valve Box	Each	
259	Manhole Flange & Cover (MDOT Type A)	Each	
261	Pt. Drain Structures	Each	
264	12" Sewer, Trench Detail I, Modified	L.F.	
268	Flowable Fill	C.Y.	
271	21AA Limestone - C.I.P.	C.Y.	
282	Plastic Drum - Lighted - Furn. & Operate	Each	
283	Barricade Type III - Furn. & Operate	Each	
284	Temp Signs Type - B	S.F.	
285	No Parking Sign	Each	
291	12" Thermo. White or Yellow	L.F.	
594	4" White Thermo.	L.F.	
595	4" Yellow Thermo.	L.F.	
596	6" White Thermo.	L.F.	
597	24" White Thermo.	L.F.	
598	Pvmt. Marking Symbol	Each	

TRAFFIC CONTROL & SIGN LEGEND		
QTY.	TYPE	DESCRIPTION
	W20-1	"ROAD WORK AHEAD"
	W20-3	"ROAD CLOSED AHEAD"
	D3-1	CONVENTIONAL GUIDE
	TYPE III	TYPE III LIGHTED BARRICADE
	R11-4	Road Closed to Thru Traffic
	TYPE II	TYPE II BARRICADE DRUM

CONSTRUCTION KEY	
KEY	ASSOCIATED PAY ITEM(S)
AA	• Dr Structure, Adj, Case 1, Modified • Dr Structure, Adj, Case 2, Modified • Dr Structure, Temp Lowering, Modified
AB	• Dr Structure, Temp Lowering, Modified • Gate Box, Adj, Case 1 • Gate Box, Adj, Case 2 • Monument Box Adjust
ADST	• Dr Structure, Adj, Add Depth, Modified
AK	• Dr Structure, Adj, Case 1, Modified
C4	• Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • Grading, Sidewalk • Sidewalk, Conc, 4 inch, Modified
C4HE	• Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • Grading, Sidewalk • Cement • Sidewalk, Conc, 4 inch, Modified
C6	• Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • Grading, Sidewalk • Detectable Warning Surface, Modified • Sidewalk Ramp, Conc, 6 inch, Modified • Sidewalk, Conc, 6 inch, Modified
C8	• Grading, Driveway Approach • Driveway, Nonrein Conc, 8 inch, Modified
C HE	• Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • Grading, Driveway Approach • Grading, Sidewalk • Grading, Sidewalk Ramp • Cement • Driveway, Nonrein Conc, 6 inch, Modified • Driveway, Nonrein Conc, 8 inch, Modified • Detectable Warning Surface, Modified • Sidewalk Ramp, Conc, 6 inch, Modified • Sidewalk, Conc, 6 inch, Modified
C/G	• Curb, Gutter, and Curb and Gutter, Any Type, Rem • Curb and Gutter, Conc
C/GHE	• Curb, Gutter, and Curb and Gutter, Any Type, Rem • Cement • Driveway Opening, Conc, Det M, Modified
CP	• Grading, Sidewalk • Sidewalk, Conc, 4 inch, Modified
CR	• Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem
DS	• Dr Structure, Rem • Sewer, Rem, Less than 24 inch • Dr Structure, 24 inch dia
DSDI	• Dr Structure, Rem • Sewer, Rem, Less than 24 inch • Dr Structure, Double Inlet
PT	• Dr Structure, Point
RRA	• Dr Structure Cover, Type B • Dr Structure Cover, Type B, Special • Dr Structure, Adj, Case 1, Modified • Dr Structure, Temp Lowering, Modified
RRK	• Dr Structure Cover, Type K • Dr Structure, Adj, Case 1, Modified
RS	• Dr Structure, Reconstruct
TYPE II	• Plastic Drum, High Intensity, Lighted, Furn • Plastic Drum, High Intensity, Lighted, Oper
TYPE III	• Barricade, Type III, High Intensity, Double Sided, Lighted, Furn • Barricade, Type III, High Intensity, Double Sided, Lighted, Oper

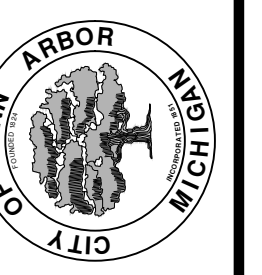


**ENGINEERING**  
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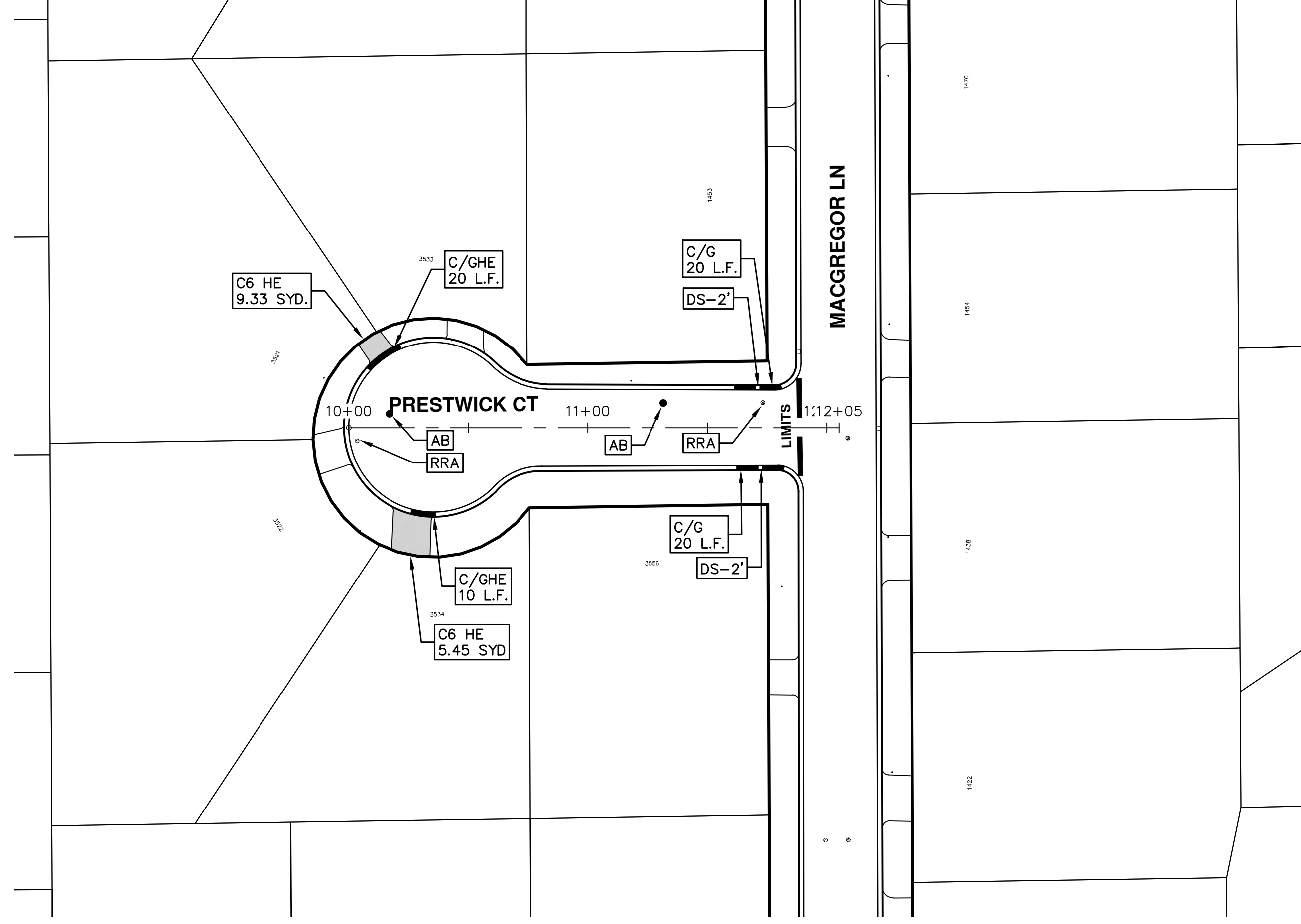
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		CHECKED

CITY OF ANN ARBOR  
PUBLIC SERVICES  
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ANN ARBOR, MICHIGAN 48107-8647  
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ENGINEERING - PUBLIC SERVICES - CITY OF ANN ARBOR  
ANNUAL STREET RESURFACING - 2018  
PRESTWICK COURT

DRAWING No. 2018004-20  
SHEET No. 20 OF 72



REV.	DESCRIPTION	DATE	DRAWN	CHECKED
00	BID SET	2-27-18	GSLCE	DAD



# CITY OF ANN ARBOR ENGINEERING

## PROJECT LOCATION: SEVERN COURT

ITB No. 4529 FILE No. 2018004

### 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.
5. PERFORM ALL CONCRETE WORK, INCLUDING RESTORATION, IN ACCORDANCE WITH THE PLANS, AND AS DIRECTED BY THE ENGINEER.
6. MILL 4 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.

### NOTES

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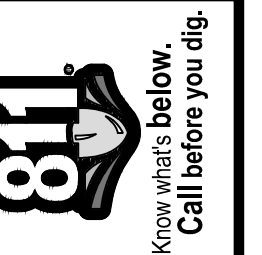
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232	Rem. Conc. Sidewalk & Drive - Any Thickness	S.F.	
237	Conc. Curb & Gutter - Any Type - Fixed Form	L.F.	
240	4" Sidewalk or Ramp	S.F.	
241	6" Drive, Sidewalk or Ramp	S.F.	
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257	Adjust Curb Inlet Structure Cover	Each	
258	Adjust Mon. or Gate Valve Box	Each	
259	Manhole Flange & Cover (MDOT Type A)	Each	
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271	21AA Limestone - C.I.P.	C.Y.	
282	Plastic Drum - Lighted - Furn. & Operate	Each	
283	Barricade Type III - Furn. & Operate	Each	
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285	No Parking Sign	Each	
291	12" Thermo. White or Yellow	L.F.	
594	4" White Thermo.	L.F.	
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596	6" White Thermo.	L.F.	
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TRAFFIC CONTROL & SIGN LEGEND		
QTY.	TYPE	DESCRIPTION
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	TYPE III	TYPE III LIGHTED BARRICADE
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CONSTRUCTION KEY	
KEY	ASSOCIATED PAY ITEM(S)
AA	• _Dr Structure, Adj, Case 1, Modified • _Dr Structure, Adj, Case 2, Modified • _Dr Structure, Temp Lowering, Modified
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ADST	• _Dr Structure, Adj, Add Depth, Modified
AK	• _Dr Structure, Adj, Case 1, Modified
C4	• _Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • _Grading, Sidewalk • _Sidewalk, Conc, 4 inch, Modified
C4HE	• _Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • _Grading, Sidewalk • Cement • _Sidewalk, Conc, 4 inch, Modified
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C/G	• _Curb, Gutter, and Curb and Gutter, Any Type, Rem • _Curb and Gutter, Conc
C/GHE	• _Curb, Gutter, and Curb and Gutter, Any Type, Rem • Cement • _Driveway Opening, Conc, Det M, Modified
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CR	• _Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem
DS	• Dr Structure, Rem • Sewer, Rem, Less than 24 inch • Dr Structure, 24 inch dia
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PT	• Dr Structure, Point
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RRK	• Dr Structure Cover, Type K • _Dr Structure, Adj, Case 1, Modified
RS	• Dr Structure, Reconstruct
TYPE II	• Plastic Drum, High Intensity, Lighted, Furn • Plastic Drum, High Intensity, Lighted, Oper
TYPE III	• Barricade, Type III, High Intensity, Double Sided, Lighted, Furn • Barricade, Type III, High Intensity, Double Sided, Lighted, Oper

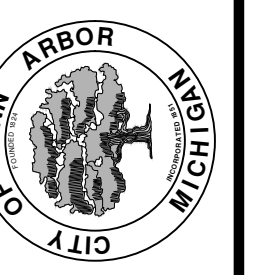


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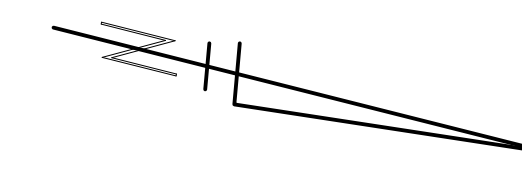
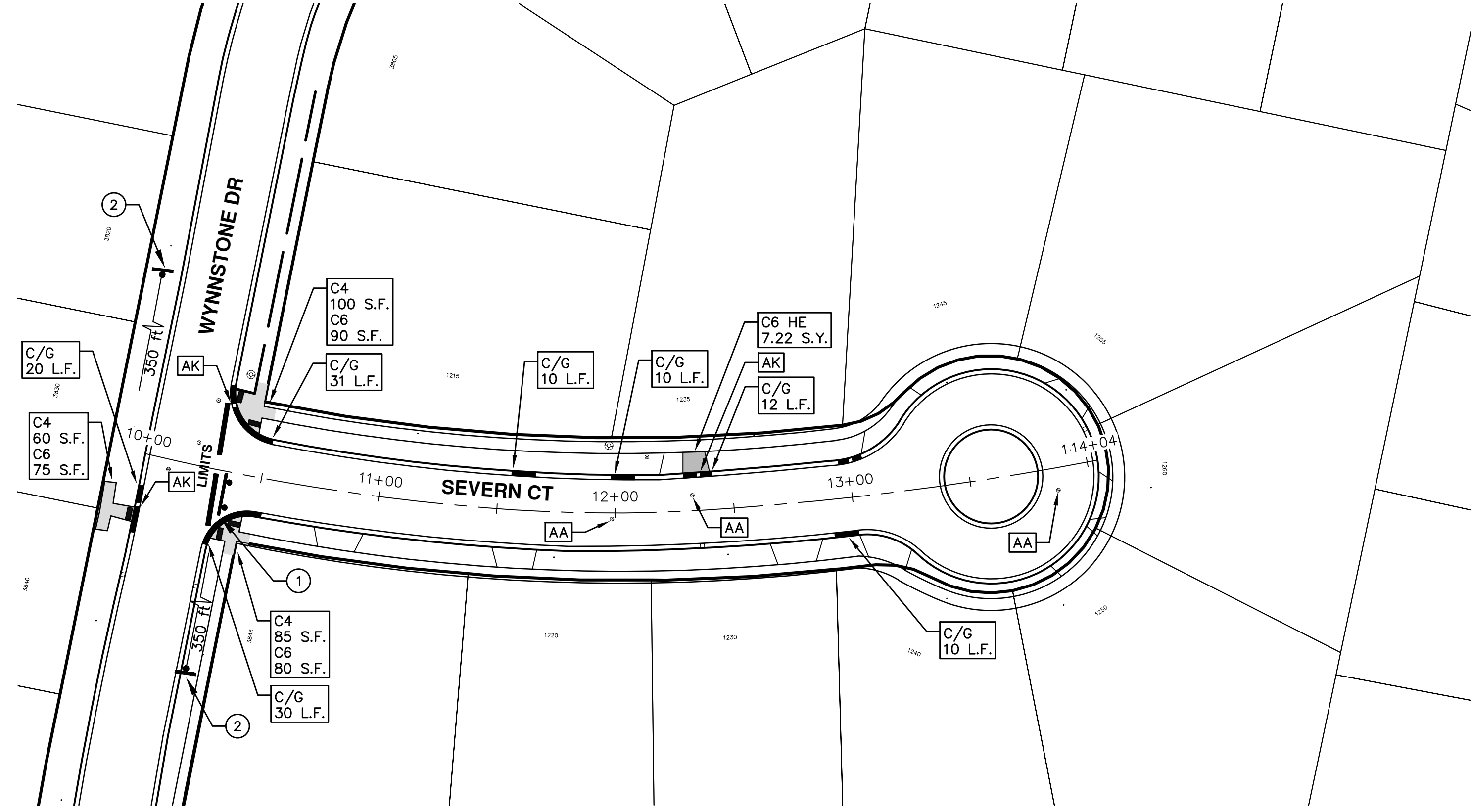
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CITY OF ANN ARBOR  
PUBLIC SERVICES  
301 EAST HURON STREET  
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www.a2gov.org



ENGINEERING - PUBLIC SERVICES - CITY OF ANN ARBOR  
ANNUAL STREET RESURFACING - 2018  
SEVERN COURT  
SUBSET COVER SHEET

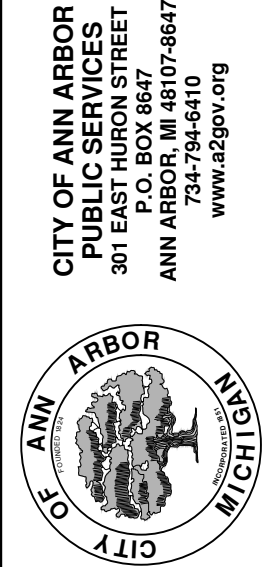
SCALE  
DRAWING No. 2018004-22  
SHEET No. 22 OF 72



TRAFFIC CONTROL SIGN		
	SIGN	NUMBER
①	 ROAD CLOSED LOCAL TRAFFIC ONLY  W/ TYPE III BARRICADE	R11-3a 60x30
②	 ROAD WORK AHEAD  SEVERN CT.	W20-1 36"x36"  D3-1 36"x36"

ENGINEERING - PUBLIC SERVICES - CITY OF ANN ARBOR  
 SCALE PLAN: 1"=80'  
 DRAWING No. 2018004-23

ANNUAL STREET RESURFACING - 2018  
 SEVERN COURT  
 STA. 10+00 - STA. 14+04



REV.	DESCRIPTION	DATE	DRAWN	CHECKED
00	BID SET	2-27-18	GSC/CE	DAD





# CITY OF ANN ARBOR ENGINEERING

## PROJECT LOCATION: STURBRIDGE COURT

ITB No. 4529 FILE No. 2018004

### 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.
5. PERFORM ALL CONCRETE WORK, INCLUDING RESTORATION, IN ACCORDANCE WITH THE PLANS, AND AS DIRECTED BY THE ENGINEER.
6. MILL 4 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 2 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.

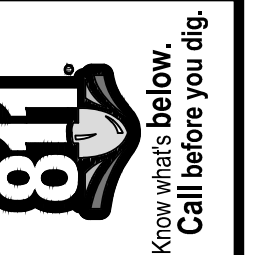
QUANTITIES			
ITEM #	DESCRIPTION	Units	Total
206	Remove HMA Pavement	S.Y.	
207	Cold Milling Pavement	S.Y.	
209	Subgrade Undercutting - Type II	C.Y.	
220	HMA Patching	Tons	
222	HMA Pavement Leveling, Regular	Tons	
224	HMA Pavement Wearing, 36A	Tons	
230	Rem. Curb & Gutter, Any Type	L.F.	
232	Rem. Conc. Sidewalk & Drive - Any Thickness	S.F.	
237	Conc. Curb & Gutter - Any Type - Fixed Form	L.F.	
240	4" Sidewalk or Ramp	S.F.	
241	6" Drive, Sidewalk or Ramp	S.F.	
245	Detectable Warning, Cast in Place	S.F.	
247	Integral Sidewalk Ret. Wall (6"-18")	S.F.	
250	2" Dia. Structure	Each	
254	Lower Structure Cover	Each	
255	Lower Mon./Gate Valve Box	Each	
256	Adjust Structure Cover	Each	
257	Adjust Curb Inlet Structure Cover	Each	
258	Adjust Mon. or Gate Valve Box	Each	
259	Manhole Flange & Cover (MDOT Type A)	Each	
261	Pt. Drain Structures	Each	
264	12" Sewer, Trench Detail I, Modified	L.F.	
268	Flowable Fill	C.Y.	
271	21AA Limestone - C.I.P.	C.Y.	
282	Plastic Drum - Lighted - Furn. & Operate	Each	
283	Barricade Type III - Furn. & Operate	Each	
284	Temp Signs Type - B	S.F.	
285	No Parking Sign	Each	
291	12" Thermo. White or Yellow	L.F.	
594	4" White Thermo.	L.F.	
595	4" Yellow Thermo.	L.F.	
596	6" White Thermo.	L.F.	
597	24" White Thermo.	L.F.	
598	Pvmt. Marking Symbol	Each	

TRAFFIC CONTROL & SIGN LEGEND		
QTY.	TYPE	DESCRIPTION
	W20-1	"ROAD WORK AHEAD"
	W20-3	"ROAD CLOSED AHEAD"
	D3-1	CONVENTIONAL GUIDE
	TYPE III	TYPE III LIGHTED BARRICADE
	R11-4	Road Closed to Thru Traffic
	TYPE II	TYPE II BARRICADE DRUM

CONSTRUCTION KEY	
KEY	ASSOCIATED PAY ITEM(S)
AA	• _Dr Structure, Adj, Case 1, Modified • _Dr Structure, Adj, Case 2, Modified • _Dr Structure, Temp Lowering, Modified
AB	• _Dr Structure, Temp Lowering, Modified • _Gate Box, Adj, Case 1 • _Gate Box, Adj, Case 2 • Monument Box Adjust
ADST	• _Dr Structure, Adj, Add Depth, Modified
AK	• _Dr Structure, Adj, Case 1, Modified
C4	• _Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • _Grading, Sidewalk • Sidewalk, Conc, 4 inch, Modified
C4HE	• _Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • _Grading, Sidewalk • Cement • Sidewalk, Conc, 4 inch, Modified
C6	• _Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • _Grading, Sidewalk • _Grading, Sidewalk Ramp • _Detectable Warning Surface, Modified • _Sidewalk Ramp, Conc, 6 inch, Modified • Sidewalk, Conc, 6 inch, Modified
C8	• _Grading, Driveway Approach • _Driveway, Nonreinf Conc, 8 inch, Modified
C HE	• _Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • _Grading, Driveway Approach • _Grading, Sidewalk • _Grading, Sidewalk Ramp • Cement • _Driveway, Nonreinf Conc, 6 inch, Modified • _Driveway, Nonreinf Conc, 8 inch, Modified • _Detectable Warning Surface, Modified • _Sidewalk Ramp, Conc, 6 inch, Modified • Sidewalk, Conc, 6 inch, Modified
C/G	• _Curb, Gutter, and Curb and Gutter, Any Type, Rem • _Curb and Gutter, Conc
C/GHE	• _Curb, Gutter, and Curb and Gutter, Any Type, Rem • Cement • _Driveway Opening, Conc, Det M, Modified
CP	• _Grading, Sidewalk • Sidewalk, Conc, 4 inch, Modified
CR	• _Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem
DS	• Dr Structure, Rem • Sewer, Rem, Less than 24 inch • Dr Structure, 24 inch dia
DSDI	• Dr Structure, Rem • Sewer, Rem, Less than 24 inch • _Dr Structure, Double Inlet
PT	• _Dr Structure, Point
RRA	• Dr Structure Cover, Type B • _Dr Structure Cover, Type B, Special • _Dr Structure, Adj, Case 1, Modified • _Dr Structure, Temp Lowering, Modified
RRK	• Dr Structure Cover, Type K • _Dr Structure, Adj, Case 1, Modified
RS	• _Dr Structure, Reconstruct
TYPE II	• Plastic Drum, High Intensity, Lighted, Furn • Plastic Drum, High Intensity, Lighted, Oper
TYPE III	• Barricade, Type III, High Intensity, Double Sided, Lighted, Furn • Barricade, Type III, High Intensity, Double Sided, Lighted, Oper

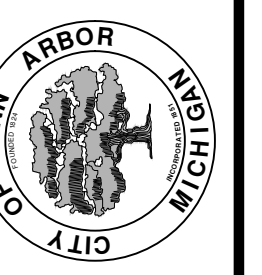


**ENGINEERING**  
CITY OF ANN ARBOR PUBLIC SERVICES  
301 EAST HURON STREET, P.O. BOX 8647  
ANN ARBOR, MICHIGAN 48107-8647  
734-794-6410 www.a2gov.org



REV.	DATE	DESCRIPTION
00	2-27-18	BID SET
		DRAWN
		CHECKED

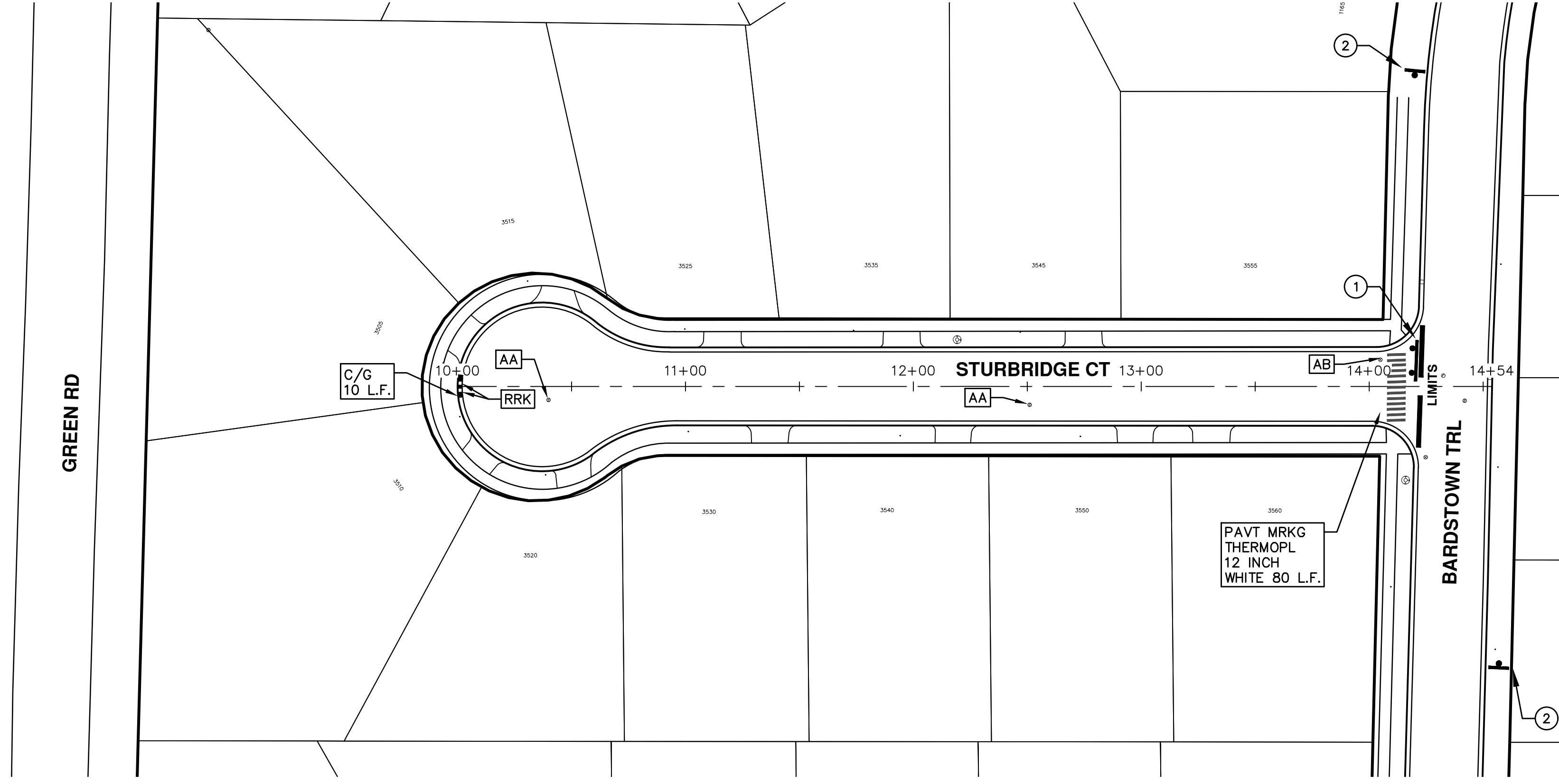
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ENGINEERING - PUBLIC SERVICES - CITY OF ANN ARBOR  
ANNUAL STREET RESURFACING - 2018  
STURBRIDGE COURT

DRAWING No. 2018004-24  
SHEET No. 24 OF 72

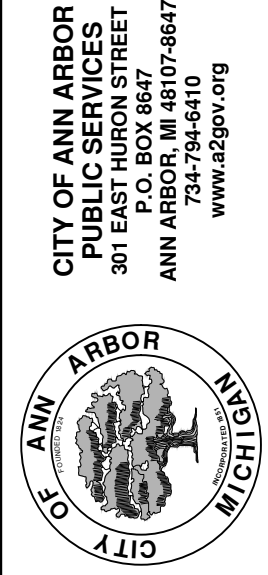




TRAFFIC CONTROL SIGN		
	SIGN	NUMBER
①	 W/ TYPE III BARRICADE	R11-3a 60x30
②	 STURBRIDGE CT	W20-1 36"x36"  D3-1 36"x36"

ENGINEERING - PUBLIC SERVICES - CITY OF ANN ARBOR  
 SCALE PLAN: 1"=80'  
 DRAWING No. 2018004-25

ANNUAL STREET RESURFACING - 2018  
 STURBRIDGE COURT  
 STA. 10+00 - STA. 14+54



REV.	DESCRIPTION	DATE	DRAWN	CHECKED
00	BID SET	2-27-18	GSLCE	DAD





# CITY OF ANN ARBOR ENGINEERING

## PROJECT LOCATION: SULGRAVE PLACE

ITB No. 4529 FILE No. 2018004

### CONSTRUCTION METHOD AND SEQUENCING

1. THE WORK TO BE COMPLETED ON THIS STREET SHALL INCLUDE, BUT NOT BE LIMITED TO THE FOLLOWING ITEMS. THE ORDER OF CONSTRUCTION SHALL BE AS GIVEN UNLESS OTHERWISE AUTHORIZED OR DIRECTED BY THE ENGINEER.
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4. LOWER ALL STRUCTURE COVERS, INCLUDING VALVE AND MONUMENT BOXES.
5. PERFORM ALL CONCRETE WORK, INCLUDING RESTORATION, IN ACCORDANCE WITH THE PLANS, AND AS DIRECTED BY THE ENGINEER.
6. MILL 4 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 2 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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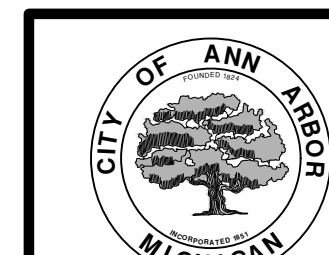
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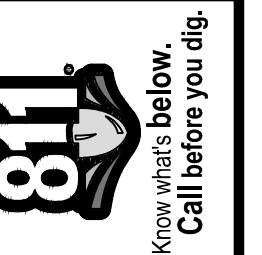
QUANTITIES			
ITEM #	DESCRIPTION	Units	Total
206	Remove HMA Pavement	S.Y.	
207	Cold Milling Pavement	S.Y.	
209	Subgrade Undercutting - Type II	C.Y.	
220	HMA Patching	Tons	
222	HMA Pavement Leveling, Regular	Tons	
224	HMA Pavement Wearing, 36A	Tons	
230	Rem. Curb & Gutter, Any Type	L.F.	
232	Rem. Conc. Sidewalk & Drive - Any Thickness	S.F.	
237	Conc. Curb & Gutter - Any Type - Fixed Form	L.F.	
240	4" Sidewalk or Ramp	S.F.	
241	6" Drive, Sidewalk or Ramp	S.F.	
245	Detectable Warning, Cast in Place	S.F.	
247	Integral Sidewalk Ret. Wall (6"-18")	S.F.	
250	2' Dia. Structure	Each	
254	Lower Structure Cover	Each	
255	Lower Mon./Gate Valve Box	Each	
256	Adjust Structure Cover	Each	
257	Adjust Curb Inlet Structure Cover	Each	
258	Adjust Mon. or Gate Valve Box	Each	
259	Manhole Flange & Cover (MDOT Type A)	Each	
261	Pt. Drain Structures	Each	
264	12" Sewer, Trench Detail I, Modified	L.F.	
268	Flowable Fill	C.Y.	
271	21AA Limestone - C.I.P.	C.Y.	
282	Plastic Drum - Lighted - Furn. & Operate	Each	
283	Barricade Type III - Furn. & Operate	Each	
284	Temp Signs Type - B	S.F.	
285	No Parking Sign	Each	
291	12" Thermo. White or Yellow	L.F.	
594	4" White Thermo.	L.F.	
595	4" Yellow Thermo.	L.F.	
596	6" White Thermo.	L.F.	
597	24" White Thermo.	L.F.	
598	Pvmt. Marking Symbol	Each	

TRAFFIC CONTROL & SIGN LEGEND		
QTY.	TYPE	DESCRIPTION
	W20-1	"ROAD WORK AHEAD"
	W20-3	"ROAD CLOSED AHEAD"
	D3-1	CONVENTIONAL GUIDE
	TYPE III	TYPE III LIGHTED BARRICADE
	R11-4	Road Closed to Thru Traffic
	TYPE II	TYPE II BARRICADE DRUM

CONSTRUCTION KEY	
KEY	ASSOCIATED PAY ITEM(S)
AA	• Dr Structure, Adj, Case 1, Modified • Dr Structure, Adj, Case 2, Modified • Dr Structure, Temp Lowering, Modified
AB	• Dr Structure, Temp Lowering, Modified • Gate Box, Adj, Case 1 • Gate Box, Adj, Case 2 • Monument Box Adjust
ADST	• Dr Structure, Adj, Add Depth, Modified
AK	• Dr Structure, Adj, Case 1, Modified
C4	• Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • Grading, Sidewalk • Sidewalk, Conc, 4 inch, Modified
C4HE	• Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • Grading, Sidewalk • Cement • Sidewalk, Conc, 4 inch, Modified
O6	• Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • Grading, Sidewalk • Grading, Sidewalk Ramp • Detectable Warning Surface, Modified • Sidewalk Ramp, Conc, 6 inch, Modified • Sidewalk, Conc, 6 inch, Modified
O8	• Grading, Driveway Approach • Driveway, Nonreinf Conc, 8 inch, Modified
CHE	• Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • Grading, Driveway Approach • Grading, Sidewalk • Grading, Sidewalk Ramp • Cement • Driveway, Nonreinf Conc, 6 inch, Modified • Driveway, Nonreinf Conc, 8 inch, Modified • Detectable Warning Surface, Modified • Sidewalk Ramp, Conc, 6 inch, Modified • Sidewalk, Conc, 6 inch, Modified
C/G	• Curb, Gutter, and Curb and Gutter, Any Type, Rem • Curb and Gutter, Conc
C/GHE	• Curb, Gutter, and Curb and Gutter, Any Type, Rem • Cement • Driveway Opening, Conc, Det M, Modified
CP	• Grading, Sidewalk • Sidewalk, Conc, 4 inch, Modified
CR	• Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem
DS	• Dr Structure, Rem • Sewer, Rem, Less than 24 inch • Dr Structure, 24 inch dia • Dr Structure, Rem
DSDI	• Sewer, Rem, Less than 24 inch • Dr Structure, Double Inlet • Dr Structure, Point
PT	• Dr Structure Cover, Type B
RRA	• Dr Structure Cover, Type B, Special • Dr Structure, Adj, Case 1, Modified • Dr Structure, Temp Lowering, Modified
RRK	• Dr Structure Cover, Type K • Dr Structure, Adj, Case 1, Modified
RS	• Dr Structure, Reconstruct
TYPE II	• Plastic Drum, High Intensity, Lighted, Furn • Plastic Drum, High Intensity, Lighted, Oper
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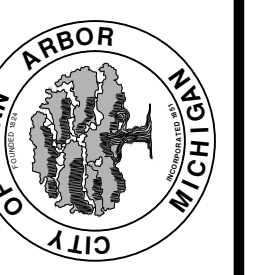


**ENGINEERING**  
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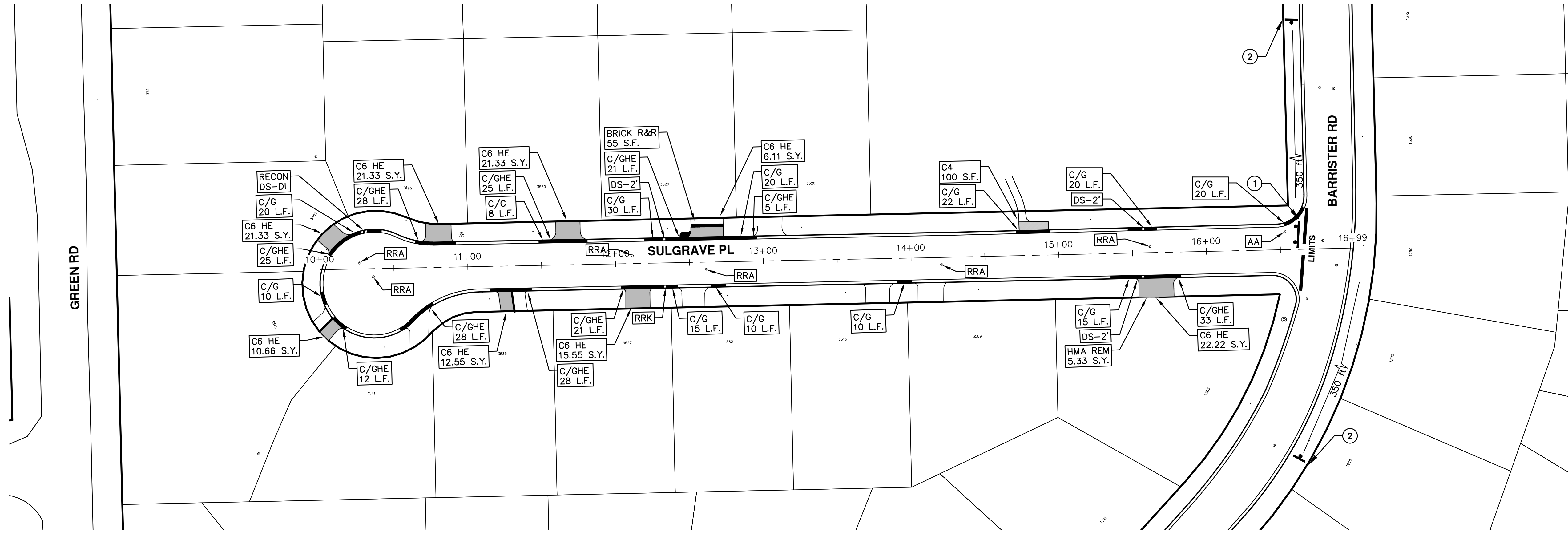
REV.	DATE	DESCRIPTION
00	2-27-18	BID SET
		DRAWN
		DAD
		CHECKED



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



ENGINEERING - PUBLIC SERVICES - CITY OF ANN ARBOR  
ANNUAL STREET RESURFACING - 2018  
SULGRAVE PLACE

DRAWING No. 2018004-26  
SHEET No. 26 OF 72



TRAFFIC CONTROL SIGN		
	SIGN	NUMBER
①	 W/ TYPE III BARRICADE	R11-3a 60x30
②	 SULGRAVE PL	W20-1 36"x36"  D.3-1 36"x36"



# CITY OF ANN ARBOR ENGINEERING

## PROJECT LOCATION: WINDEMERE DRIVE

ITB No. 4529 FILE No. 2018004

### CONSTRUCTION METHOD AND SEQUENCING

1. THE WORK TO BE COMPLETED ON THIS STREET SHALL INCLUDE, BUT NOT BE LIMITED TO THE FOLLOWING ITEMS. THE ORDER OF CONSTRUCTION SHALL BE AS GIVEN UNLESS OTHERWISE AUTHORIZED OR DIRECTED BY THE ENGINEER.
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9. PAVE 2 INCHES OF THE BITUMINOUS MIX AS SPECIFIED OR DIRECTED, AS THE LEVELING COURSE, IN ONE LIFT.
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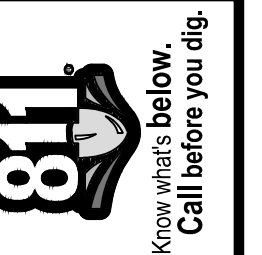
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232	Rem. Conc. Sidewalk & Drive - Any Thickness	S.F.	
237	Conc. Curb & Gutter - Any Type - Fixed Form	L.F.	
240	4" Sidewalk or Ramp	S.F.	
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247	Integral Sidewalk Ret. Wall (6"-18")	S.F.	
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282	Plastic Drum - Lighted - Furn. & Operate	Each	
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285	No Parking Sign	Each	
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595	4" Yellow Thermo.	L.F.	
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TRAFFIC CONTROL & SIGN LEGEND		
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CONSTRUCTION KEY	
KEY	ASSOCIATED PAY ITEM(S)
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AB	• _Dr Structure, Temp Lowering, Modified • _Gate Box, Adj, Case 1 • _Gate Box, Adj, Case 2 • Monument Box Adjust
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AK	• _Dr Structure, Adj, Case 1, Modified
C4	• _Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • _Grading, Sidewalk • _Sidewalk, Conc, 4 inch, Modified
C4HE	• _Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • _Grading, Sidewalk • Cement • _Sidewalk, Conc, 4 inch, Modified
C6	• _Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • _Grading, Sidewalk • _Grading, Sidewalk Ramp • Detectable Warning Surface, Modified • _Sidewalk Ramp, Conc, 6 inch, Modified • _Sidewalk, Conc, 6 inch, Modified
C8	• _Grading, Driveway Approach • Driveway, Nonreinf Conc, 8 inch, Modified
C HE	• _Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • _Grading, Driveway Approach • _Grading, Sidewalk • _Grading, Sidewalk Ramp • Cement • Driveway, Nonreinf Conc, 6 inch, Modified • Driveway, Nonreinf Conc, 8 inch, Modified • Detectable Warning Surface, Modified • _Sidewalk Ramp, Conc, 6 inch, Modified • _Sidewalk, Conc, 6 inch, Modified
C/G	• Curb, Gutter, and Curb and Gutter, Any Type, Rem • Curb and Gutter, Conc
C/GHE	• Curb, Gutter, and Curb and Gutter, Any Type, Rem • Cement • Driveway Opening, Conc, Det M, Modified
CP	• _Grading, Sidewalk • _Sidewalk, Conc, 4 inch, Modified
CR	• Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem
DS	• Dr Structure, Rem • Sewer, Rem, Less than 24 inch • Dr Structure, 24 inch dia
DSDI	• Dr Structure, Rem • Sewer, Rem, Less than 24 inch • Dr Structure, Double Inlet
PT	• Dr Structure, Point
RRA	• Dr Structure Cover, Type B • Dr Structure Cover, Type B, Special • Dr Structure, Adj, Case 1, Modified • Dr Structure, Temp Lowering, Modified
RRK	• Dr Structure Cover, Type K • Dr Structure, Adj, Case 1, Modified
RS	• Dr Structure, Reconstruct
TYPE II	• Plastic Drum, High Intensity, Lighted, Furn • Plastic Drum, High Intensity, Lighted, Oper
TYPE III	• Barricade, Type III, High Intensity, Double Sided, Lighted, Furn • Barricade, Type III, High Intensity, Double Sided, Lighted, Oper

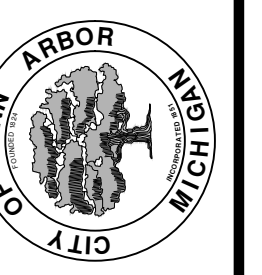


**ENGINEERING**  
CITY OF ANN ARBOR PUBLIC SERVICES  
301 EAST HURON STREET, P.O. BOX 8647  
ANN ARBOR, MICHIGAN 48107-8647  
734-794-6410 www.a2gov.org



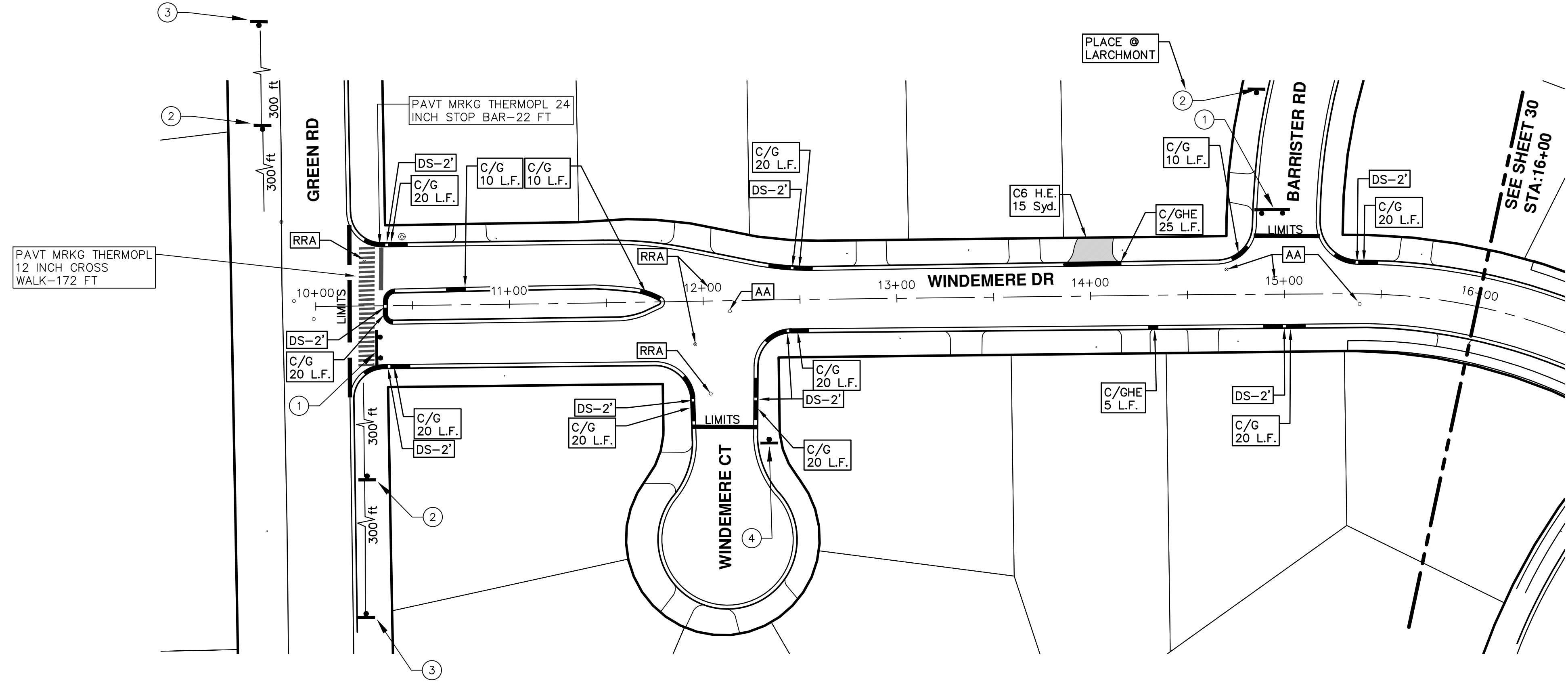
REV.	DESCRIPTION	DATE	DRAWN	CHECKED
00	BID SET	2-27-18	GSC/E	DAD

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ENGINEERING - PUBLIC SERVICES - CITY OF ANN ARBOR  
ANNUAL STREET RESURFACING - 2018  
WINDEMERE DRIVE

DRAWING No.  
2018004-28



TRAFFIC CONTROL SIGN		
	SIGN	NUMBER
①	 W/ TYPE III BARRICADE	R11-3a 60x30
②	 WINDEMERE DR	W20-3 36"x36" D3-1 36"x36"
③	 WINDEMERE DR	W20-1 36"x36" D3-1 36"x36"

**ENGINEERING - PUBLIC SERVICES - CITY OF ANN ARBOR**  
 ANNUAL STREET RESURFACING - 2018  
 WINDEMERE DRIVE  
 STA. 10+00 - STA. 16+00

SCALE PLAN: 1"=40'  
 DRAWING No.: 2018004-29

TRAFFIC CONTROL SIGN NUMBER

① R11-3a 60x30

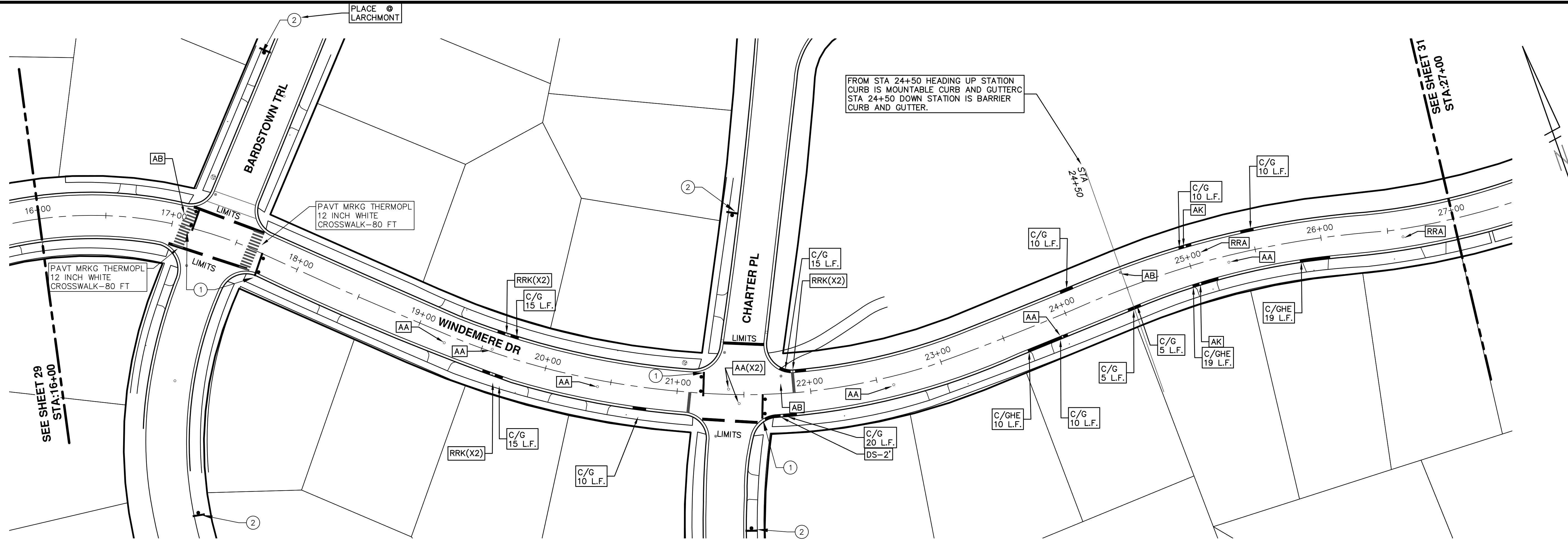
② W20-3 36"x36" D3-1 36"x36"

③ W20-1 36"x36" D3-1 36"x36"

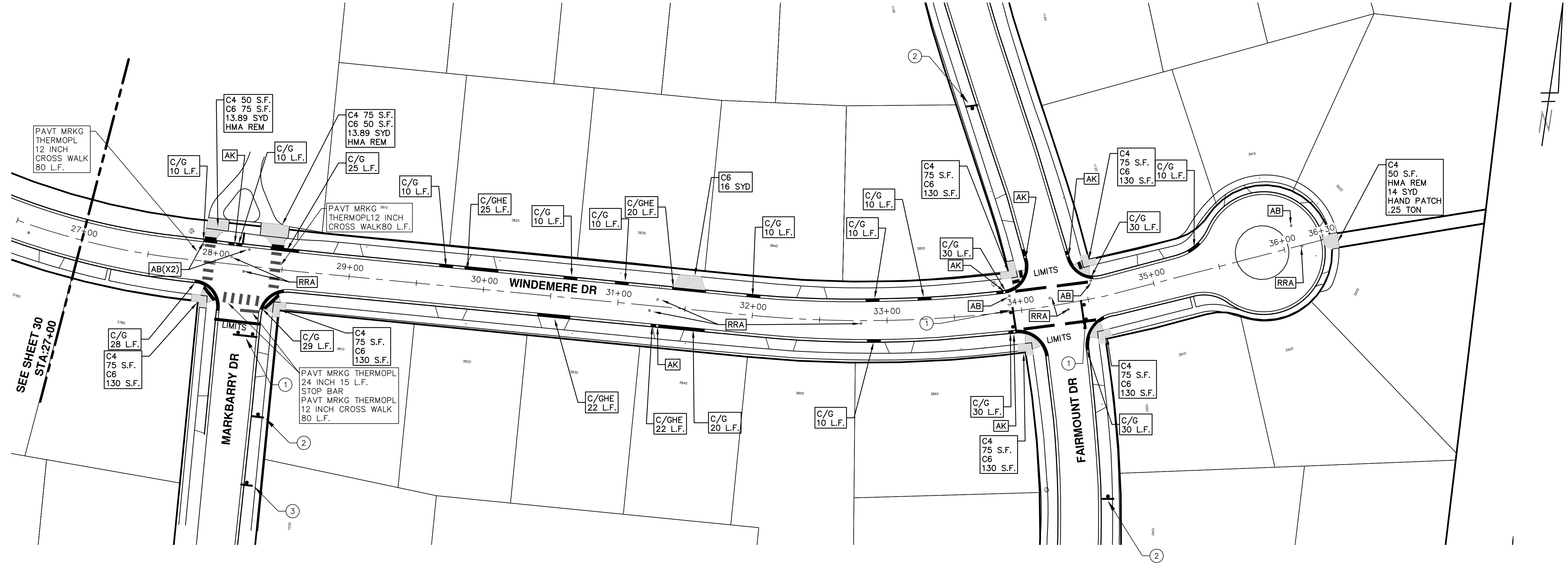
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 PUBLIC SERVICES  
 301 EAST HURON STREET  
 ANN ARBOR, MI 48106-8647  
 www.a2gov.org

REV.	DESCRIPTION	DATE	DRAWN	CHECKED
00	BID SET	2-27-18	GS/CE	DAD

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



TRAFFIC CONTROL SIGN		
	SIGN	NUMBER
①	ROAD CLOSED LOCAL TRAFFIC ONLY W/ TYPE III BARRICADE	R11-3a 60x30
②	ROAD CLOSED AHEAD WINDEMERE DR	W20-3 36"x36" D3-1 36"x36"
③	ROAD WORK AHEAD WINDEMERE DR	W20-1 36"x36" D3-1 36"x36"



SEE SHEET 30  
STA: 27+00

TRAFFIC CONTROL SIGN		
	SIGN	NUMBER
①	 ROAD CLOSED LOCAL TRAFFIC ONLY W/ TYPE III BARRICADE	R11-3a 60x30
②	 ROAD CLOSED AHEAD  WINDEMERE DR	W20-3 36"x36"  D3-1 36"x36"
③	 ROAD WORK AHEAD  WINDEMERE DR	W20-1 36"x36"  D3-1 36"x36"

**ENGINEERING - PUBLIC SERVICES - CITY OF ANN ARBOR**  
 SCALE PLAN: 1"=40'  
 DRAWING No. 2018004-31

**ANNUAL STREET RESURFACING - 2018**  
 WINDEMERE DRIVE  
 STA. 27+00 - STA. 36+30

CITY OF ANN ARBOR  
 PUBLIC SERVICES  
 301 EAST HURON STREET  
 ANN ARBOR, MI 48106-6647  
 ANN ARBOR: 734.754.4410  
 WWW.A2GOV.ORG

REV.	DESCRIPTION	DATE	DRAWN	CHECKED
00	BID SET	2-27-18	GSC/E	DAD

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



# CITY OF ANN ARBOR ENGINEERING

## PROJECT LOCATION: WEST DOBSON PL

ITB No. 4529 FILE No. 2018004

### 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.
5. PERFORM ALL CONCRETE WORK, INCLUDING RESTORATION, IN ACCORDANCE WITH THE PLANS, AND AS DIRECTED BY THE ENGINEER.
6. MILL 4 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 2 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.

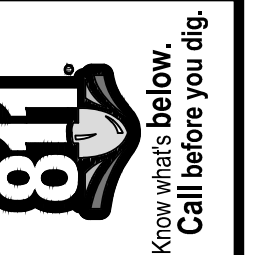
QUANTITIES			
ITEM #	DESCRIPTION	Units	Total
206	Remove HMA Pavement	S.Y.	
207	Cold Milling Pavement	S.Y.	
209	Subgrade Undercutting - Type II	C.Y.	
220	HMA Patching	Tons	
222	HMA Pavement Leveling, Regular	Tons	
224	HMA Pavement Wearing, 36A	Tons	
230	Rem. Curb & Gutter, Any Type	L.F.	
232	Rem. Conc. Sidewalk & Drive - Any Thickness	S.F.	
237	Conc. Curb & Gutter - Any Type - Fixed Form	L.F.	
240	4" Sidewalk or Ramp	S.F.	
241	6" Drive, Sidewalk or Ramp	S.F.	
245	Detectable Warning, Cast in Place	S.F.	
247	Integral Sidewalk Ret. Wall (6"-18")	S.F.	
250	2' Dia. Structure	Each	
254	Lower Structure Cover	Each	
255	Lower Mon./Gate Valve Box	Each	
256	Adjust Structure Cover	Each	
257	Adjust Curb Inlet Structure Cover	Each	
258	Adjust Mon. or Gate Valve Box	Each	
259	Manhole Flange & Cover (MDOT Type A)	Each	
261	Pt. Drain Structures	Each	
264	12" Sewer, Trench Detail I, Modified	L.F.	
268	Flowable Fill	C.Y.	
271	21AA Limestone - C.I.P.	C.Y.	
282	Plastic Drum - Lighted - Furn. & Operate	Each	
283	Barricade Type III - Furn. & Operate	Each	
284	Temp Signs Type - B	S.F.	
285	No Parking Sign	Each	
291	12" Thermo. White or Yellow	L.F.	
594	4" White Thermo.	L.F.	
595	4" Yellow Thermo.	L.F.	
596	6" White Thermo.	L.F.	
597	24" White Thermo.	L.F.	
598	Pvmt. Marking Symbol	Each	

TRAFFIC CONTROL & SIGN LEGEND		
QTY.	TYPE	DESCRIPTION
	W20-1	"ROAD WORK AHEAD"
	W20-3	"ROAD CLOSED AHEAD"
	D3-1	CONVENTIONAL GUIDE
	TYPE III	TYPE III LIGHTED BARRICADE
	R11-4	Road Closed to Thru Traffic
	TYPE II	TYPE II BARRICADE DRUM

CONSTRUCTION KEY	
KEY	ASSOCIATED PAY ITEM(S)
AA	• Dr Structure, Adj, Case 1, Modified • Dr Structure, Adj, Case 2, Modified • Dr Structure, Temp Lowering, Modified
AB	• Dr Structure, Temp Lowering, Modified • Gate Box, Adj, Case 1 • Gate Box, Adj, Case 2 • Monument Box Adjust
ADST	• Dr Structure, Adj, Add Depth, Modified
AK	• Dr Structure, Adj, Case 1, Modified
C4	• Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • Grading, Sidewalk • Sidewalk, Conc, 4 inch, Modified
C4HE	• Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • Grading, Sidewalk • Cement • Sidewalk, Conc, 4 inch, Modified
O6	• Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • Grading, Sidewalk • Grading, Sidewalk Ramp • Detectable Warning Surface, Modified • Sidewalk Ramp, Conc, 6 inch, Modified • Sidewalk, Conc, 6 inch, Modified
O8	• Grading, Driveway Approach • Driveway, Nonreinf Conc, 8 inch, Modified
CHE	• Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • Grading, Driveway Approach • Grading, Sidewalk • Grading, Sidewalk Ramp • Cement • Driveway, Nonreinf Conc, 6 inch, Modified • Driveway, Nonreinf Conc, 8 inch, Modified • Detectable Warning Surface, Modified • Sidewalk Ramp, Conc, 6 inch, Modified • Sidewalk, Conc, 6 inch, Modified
C/G	• Curb, Gutter, and Curb and Gutter, Any Type, Rem • Curb and Gutter, Conc
C/GHE	• Curb, Gutter, and Curb and Gutter, Any Type, Rem • Cement • Driveway Opening, Conc, Det M, Modified
CP	• Grading, Sidewalk • Sidewalk, Conc, 4 inch, Modified
CR	• Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem
DS	• Dr Structure, Rem • Sewer, Rem, Less than 24 inch • Dr Structure, 24 inch dia
DSDI	• Dr Structure, Rem • Sewer, Rem, Less than 24 inch • Dr Structure, Double Inlet
PT	• Dr Structure, Point
RRA	• Dr Structure Cover, Type B • Dr Structure Cover, Type B, Special • Dr Structure, Adj, Case 1, Modified • Dr Structure, Temp Lowering, Modified
RRK	• Dr Structure Cover, Type K • Dr Structure, Adj, Case 1, Modified
RS	• Dr Structure, Reconstruct
TYPE II	• Plastic Drum, High Intensity, Lighted, Furn • Plastic Drum, High Intensity, Lighted, Oper
TYPE III	• Barricade, Type III, High Intensity, Double Sided, Lighted, Furn • Barricade, Type III, High Intensity, Double Sided, Lighted, Oper

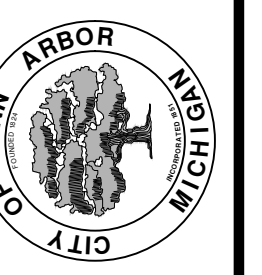


**ENGINEERING**  
CITY OF ANN ARBOR PUBLIC SERVICES  
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ANN ARBOR, MICHIGAN 48107-8647  
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REV.	DATE	DESCRIPTION
00	2-27-18	BID SET
		DRAWN
		CHECKED

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

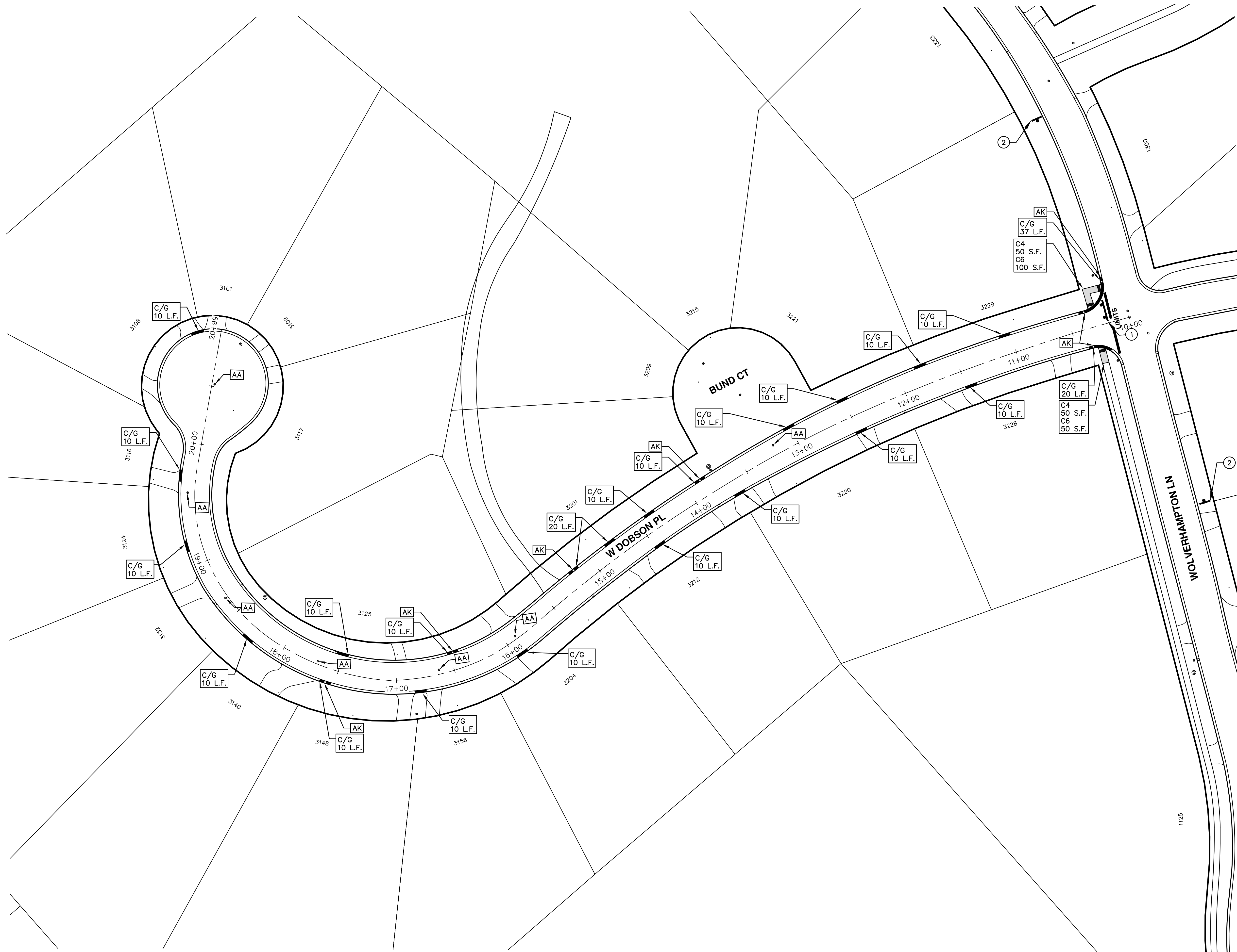


ENGINEERING - PUBLIC SERVICES - CITY OF ANN ARBOR  
ANNUAL STREET RESURFACING - 2018  
WEST DOBSON PL

DRAWING No.  
2018004-32



T:\2018004\Plan Production\2018004 - West Dobson Place.dwg Created: 15-Dec-17 - a2\_standard bw.stb - Plot Date: 27-Feb-18



TRAFFIC CONTROL SIGN		
	SIGN	NUMBER
①	 ROAD CLOSED LOCAL TRAFFIC ONLY W/ TYPE III BARRICADE	R11-3a 60x30
②	 ROAD WORK AHEAD   W.DOBSON PL	W20-1 36"x36"  D3-1 36"x36"

**ENGINEERING - PUBLIC SERVICES - CITY OF ANN ARBOR**  
 SCALE PLAN: 1"=40'  
 DRAWING No. 2018004-33

**ANNUAL STREET RESURFACING - 2018**  
 WEST DOBSON PL  
 STA. 10+00 - STA. 20+99

CITY OF ANN ARBOR  
 PUBLIC SERVICES  
 301 EAST HURON STREET  
 P.O. BOX 86400-8647  
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REV.	DESCRIPTION	DATE	DRAWN	CHECKED
00	BID SET	2-27-18	GSC/CE	DAD

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



# CITY OF ANN ARBOR ENGINEERING

## PROJECT LOCATION: EAST DOBSON PL

ITB No. 4529 FILE No. 2018004

### 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.
5. PERFORM ALL CONCRETE WORK, INCLUDING RESTORATION, IN ACCORDANCE WITH THE PLANS, AND AS DIRECTED BY THE ENGINEER.
6. MILL 4 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 2 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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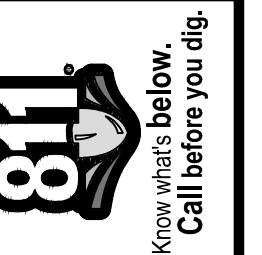
QUANTITIES			
ITEM #	DESCRIPTION	Units	Total
206	Remove HMA Pavement	S.Y.	
207	Cold Milling Pavement	S.Y.	
209	Subgrade Undercutting - Type II	C.Y.	
220	HMA Patching	Tons	
222	HMA Pavement Leveling, Regular	Tons	
224	HMA Pavement Wearing, 36A	Tons	
230	Rem. Curb & Gutter, Any Type	L.F.	
232	Rem. Conc. Sidewalk & Drive - Any Thickness	S.F.	
237	Conc. Curb & Gutter - Any Type - Fixed Form	L.F.	
240	4" Sidewalk or Ramp	S.F.	
241	6" Drive, Sidewalk or Ramp	S.F.	
245	Detectable Warning, Cast in Place	S.F.	
247	Integral Sidewalk Ret. Wall (6"-18")	S.F.	
250	2' Dia. Structure	Each	
254	Lower Structure Cover	Each	
255	Lower Mon./Gate Valve Box	Each	
256	Adjust Structure Cover	Each	
257	Adjust Curb Inlet Structure Cover	Each	
258	Adjust Mon. or Gate Valve Box	Each	
259	Manhole Flange & Cover (MDOT Type A)	Each	
261	Pt. Drain Structures	Each	
264	12" Sewer, Trench Detail I, Modified	L.F.	
268	Flowable Fill	C.Y.	
271	21AA Limestone - C.I.P.	C.Y.	
282	Plastic Drum - Lighted - Furn. & Operate	Each	
283	Barricade Type III - Furn. & Operate	Each	
284	Temp Signs Type - B	S.F.	
285	No Parking Sign	Each	
291	12" Thermo. White or Yellow	L.F.	
594	4" White Thermo.	L.F.	
595	4" Yellow Thermo.	L.F.	
596	6" White Thermo.	L.F.	
597	24" White Thermo.	L.F.	
598	Pvmt. Marking Symbol	Each	

TRAFFIC CONTROL & SIGN LEGEND		
QTY.	TYPE	DESCRIPTION
	W20-1	"ROAD WORK AHEAD"
	W20-3	"ROAD CLOSED AHEAD"
	D3-1	CONVENTIONAL GUIDE
	TYPE III	TYPE III LIGHTED BARRICADE
	R11-4	Road Closed to Thru Traffic
	TYPE II	TYPE II BARRICADE DRUM

CONSTRUCTION KEY	
KEY	ASSOCIATED PAY ITEM(S)
AA	• Dr Structure, Adj, Case 1, Modified • Dr Structure, Adj, Case 2, Modified • Dr Structure, Temp Lowering, Modified
AB	• Dr Structure, Temp Lowering, Modified • Gate Box, Adj, Case 1 • Gate Box, Adj, Case 2 • Monument Box Adjust
ADST	• Dr Structure, Adj, Add Depth, Modified
AK	• Dr Structure, Adj, Case 1, Modified
C4	• Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • Grading, Sidewalk • Sidewalk, Conc, 4 inch, Modified
C4HE	• Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • Grading, Sidewalk • Cement • Sidewalk, Conc, 4 inch, Modified
C6	• Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • Grading, Sidewalk • Grading, Sidewalk Ramp • Detectable Warning Surface, Modified • Sidewalk Ramp, Conc, 6 inch, Modified • Sidewalk, Conc, 6 inch, Modified
C8	• Grading, Driveway Approach • Driveway, Nonreinf Conc, 8 inch, Modified
C HE	• Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • Grading, Driveway Approach • Grading, Sidewalk • Grading, Sidewalk Ramp • Cement • Driveway, Nonreinf Conc, 6 inch, Modified • Driveway, Nonreinf Conc, 8 inch, Modified • Detectable Warning Surface, Modified • Sidewalk Ramp, Conc, 6 inch, Modified • Sidewalk, Conc, 6 inch, Modified
C/G	• Curb, Gutter, and Curb and Gutter, Any Type, Rem • Curb and Gutter, Conc
C/GHE	• Curb, Gutter, and Curb and Gutter, Any Type, Rem • Cement • Driveway Opening, Conc, Det M, Modified
CP	• Grading, Sidewalk • Sidewalk, Conc, 4 inch, Modified
CR	• Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem
DS	• Dr Structure, Rem • Sewer, Rem, Less than 24 inch • Dr Structure, 24 inch dia
DSDI	• Dr Structure, Rem • Sewer, Rem, Less than 24 inch • Dr Structure, Double Inlet
PT	• Dr Structure, Point
RRA	• Dr Structure Cover, Type B • Dr Structure Cover, Type B, Special • Dr Structure, Adj, Case 1, Modified • Dr Structure, Temp Lowering, Modified
RRK	• Dr Structure Cover, Type K • Dr Structure, Adj, Case 1, Modified
RS	• Dr Structure, Reconstruct
TYPE II	• Plastic Drum, High Intensity, Lighted, Furn • Plastic Drum, High Intensity, Lighted, Oper
TYPE III	• Barricade, Type III, High Intensity, Double Sided, Lighted, Furn • Barricade, Type III, High Intensity, Double Sided, Lighted, Oper

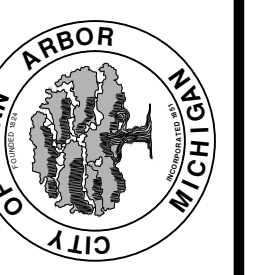


**ENGINEERING**  
CITY OF ANN ARBOR PUBLIC SERVICES  
301 EAST HURON STREET, P.O. BOX 8647  
ANN ARBOR, MICHIGAN 48107-8647  
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REV.	DATE	DESCRIPTION
00	2-27-18	BID SET
		DRAWN
		CHECKED

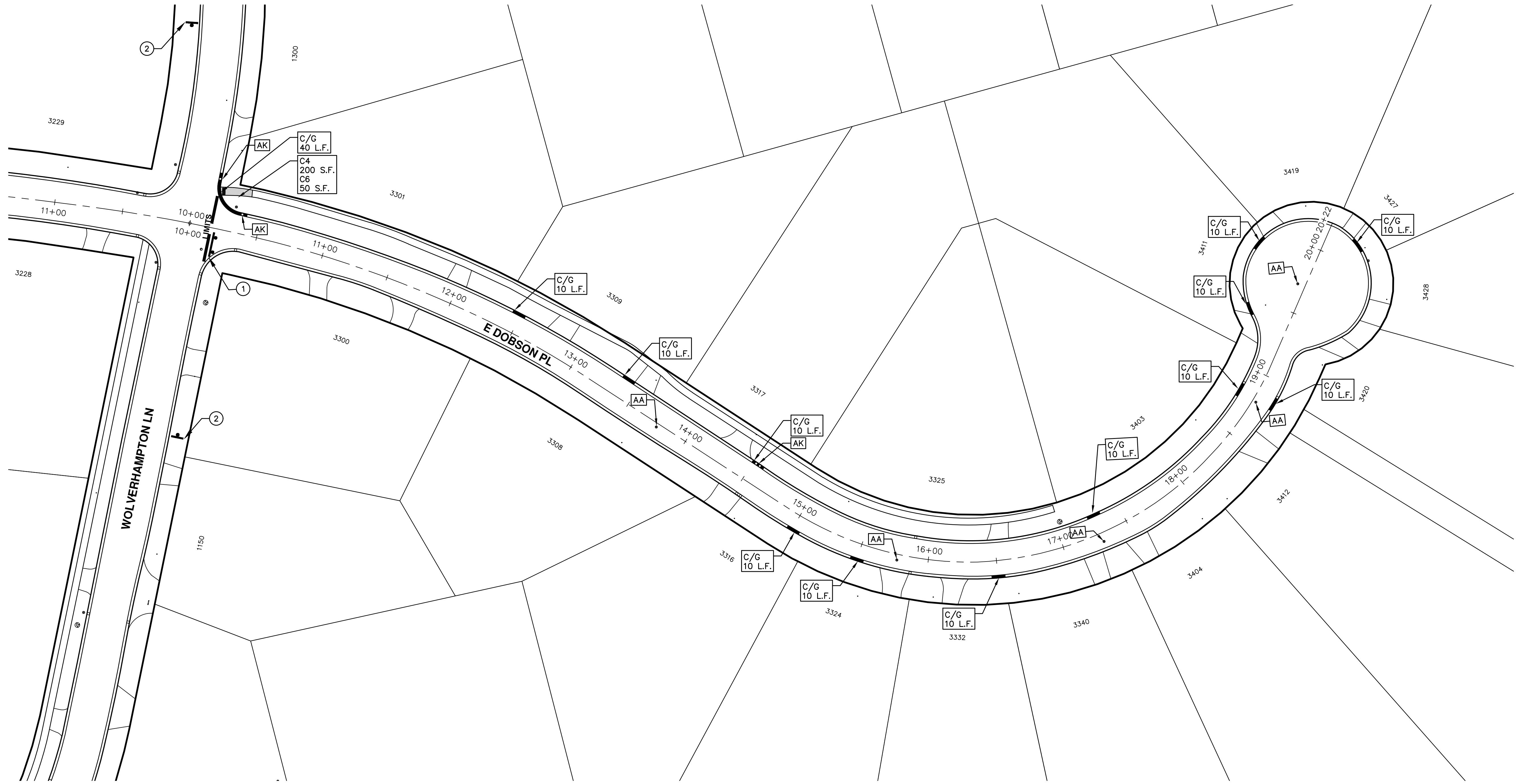
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PUBLIC SERVICES  
301 EAST HURON STREET  
P.O. BOX 8647  
ANN ARBOR, MI 48107-8647  
www.a2gov.org



ENGINEERING - PUBLIC SERVICES - CITY OF ANN ARBOR  
ANNUAL STREET RESURFACING - 2018  
EAST DOBSON PL

DRAWING No.  
2018004-34

T:\2018004\Plan Production\2018004 - East Dobson Place.dwg Dwg Created: 27-Dec-17 - \_a2\_standard bw.stb - Plot Date: 27-Feb-18



TRAFFIC CONTROL SIGN		
	SIGN	NUMBER
①	 ROAD CLOSED LOCAL TRAFFIC ONLY W/ TYPE III BARRICADE	R11-3a 60"x30"
②	 ROAD CLOSED AHEAD E. DOBSON PL	W20-3 36"x36" D3-1 36"x36"

ENGINEERING - PUBLIC SERVICES - CITY OF ANN ARBOR  
 SCALE PLAN: 1"=80'  
 DRAWING No. 2018004-35

ANNUAL STREET RESURFACING - 2018  
 EAST DOBSON PL  
 STA. 10+00 - STA. 20+22



CITY OF ANN ARBOR  
 PUBLIC SERVICES  
 301 EAST HURON STREET  
 ANN ARBOR, MI 48106-8647  
 ANN ARBOR 734.754.4410  
 www.a2gov.org

REV.	DESCRIPTION	DATE	DRAWN	CHECKED
00	BID SET	2-27-18	GSLCE	DAD





# CITY OF ANN ARBOR ENGINEERING

## PROJECT LOCATION: WOLVERHAMPTON LN

ITB No. 4529 FILE No. 2018004

### 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.
5. PERFORM ALL CONCRETE WORK, INCLUDING RESTORATION, IN ACCORDANCE WITH THE PLANS, AND AS DIRECTED BY THE ENGINEER.
6. MILL 4 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 2 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.

QUANTITIES			
ITEM #	DESCRIPTION	Units	Total
206	Remove HMA Pavement	S.Y.	
207	Cold Milling Pavement	S.Y.	
209	Subgrade Undercutting - Type II	C.Y.	
220	HMA Patching	Tons	
222	HMA Pavement Leveling, Regular	Tons	
224	HMA Pavement Wearing, 36A	Tons	
230	Rem. Curb & Gutter, Any Type	L.F.	
232	Rem. Conc. Sidewalk & Drive - Any Thickness	S.F.	
237	Conc. Curb & Gutter - Any Type - Fixed Form	L.F.	
240	4" Sidewalk or Ramp	S.F.	
241	6" Drive, Sidewalk or Ramp	S.F.	
245	Detectable Warning, Cast in Place	S.F.	
247	Integral Sidewalk Ret. Wall (6"-18")	S.F.	
250	2' Dia. Structure	Each	
254	Lower Structure Cover	Each	
255	Lower Mon./Gate Valve Box	Each	
256	Adjust Structure Cover	Each	
257	Adjust Curb Inlet Structure Cover	Each	
258	Adjust Mon. or Gate Valve Box	Each	
259	Manhole Flange & Cover (MDOT Type A)	Each	
261	Pt. Drain Structures	Each	
264	12" Sewer, Trench Detail I, Modified	L.F.	
268	Flowable Fill	C.Y.	
271	21AA Limestone - C.I.P.	C.Y.	
282	Plastic Drum - Lighted - Furn. & Operate	Each	
283	Barricade Type III - Furn. & Operate	Each	
284	Temp Signs Type - B	S.F.	
285	No Parking Sign	Each	
291	12" Thermo. White or Yellow	L.F.	
594	4" White Thermo.	L.F.	
595	4" Yellow Thermo.	L.F.	
596	6" White Thermo.	L.F.	
597	24" White Thermo.	L.F.	
598	Pvmt. Marking Symbol	Each	

TRAFFIC CONTROL & SIGN LEGEND		
QTY.	TYPE	DESCRIPTION
	W20-1	"ROAD WORK AHEAD"
	W20-3	"ROAD CLOSED AHEAD"
	D3-1	CONVENTIONAL GUIDE
	TYPE III	TYPE III LIGHTED BARRICADE
	R11-4	Road Closed to Thru Traffic
	TYPE II	TYPE II BARRICADE DRUM

CONSTRUCTION KEY	
KEY	ASSOCIATED PAY ITEM(S)
AA	• _Dr Structure, Adj, Case 1, Modified • _Dr Structure, Adj, Case 2, Modified • _Dr Structure, Temp Lowering, Modified
AB	• _Dr Structure, Temp Lowering, Modified • _Gate Box, Adj, Case 1 • _Gate Box, Adj, Case 2 • Monument Box Adjust
ADST	• _Dr Structure, Adj, Add Depth, Modified
AK	• _Dr Structure, Adj, Case 1, Modified
C4	• _Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • _Grading, Sidewalk • _Sidewalk, Conc, 4 inch, Modified
C4HE	• _Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • _Grading, Sidewalk • Cement • _Sidewalk, Conc, 4 inch, Modified
C6	• _Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • _Grading, Sidewalk • _Grading, Sidewalk Ramp • _Detectable Warning Surface, Modified • _Sidewalk Ramp, Conc, 6 inch, Modified • _Sidewalk, Conc, 6 inch, Modified
C8	• _Grading, Driveway Approach • _Driveway, Nonreinf Conc, 8 inch, Modified
C HE	• _Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • _Grading, Driveway Approach • _Grading, Sidewalk • _Grading, Sidewalk Ramp • Cement • _Driveway, Nonreinf Conc, 6 inch, Modified • _Driveway, Nonreinf Conc, 8 inch, Modified • _Detectable Warning Surface, Modified • _Sidewalk Ramp, Conc, 6 inch, Modified • _Sidewalk, Conc, 6 inch, Modified
C/G	• _Curb, Gutter, and Curb and Gutter, Any Type, Rem • _Curb and Gutter, Conc
C/GHE	• _Curb, Gutter, and Curb and Gutter, Any Type, Rem • Cement • _Driveway Opening, Conc, Det M, Modified
CP	• _Grading, Sidewalk • _Sidewalk, Conc, 4 inch, Modified
CR	• _Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem
DS	• Dr Structure, Rem • Sewer, Rem, Less than 24 inch • Dr Structure, 24 inch dia
DSDI	• Dr Structure, Rem • Sewer, Rem, Less than 24 inch • _Dr Structure, Double Inlet
PT	• _Dr Structure, Point
RRA	• Dr Structure Cover, Type B • _Dr Structure Cover, Type B, Special • _Dr Structure, Adj, Case 1, Modified • _Dr Structure, Temp Lowering, Modified
RRK	• Dr Structure Cover, Type K • _Dr Structure, Adj, Case 1, Modified
RS	• _Dr Structure, Reconstruct
TYPE II	• Plastic Drum, High Intensity, Lighted, Furn • Plastic Drum, High Intensity, Lighted, Oper
TYPE III	• Barricade, Type III, High Intensity, Double Sided, Lighted, Furn • Barricade, Type III, High Intensity, Double Sided, Lighted, Oper



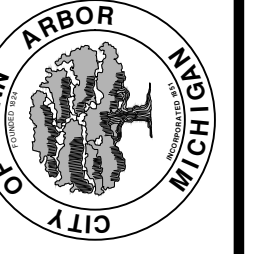
**ENGINEERING**  
CITY OF ANN ARBOR PUBLIC SERVICES  
301 EAST HURON STREET, P.O. BOX 8647  
ANN ARBOR, MICHIGAN 48107-8647  
734-794-6410 www.a2gov.org

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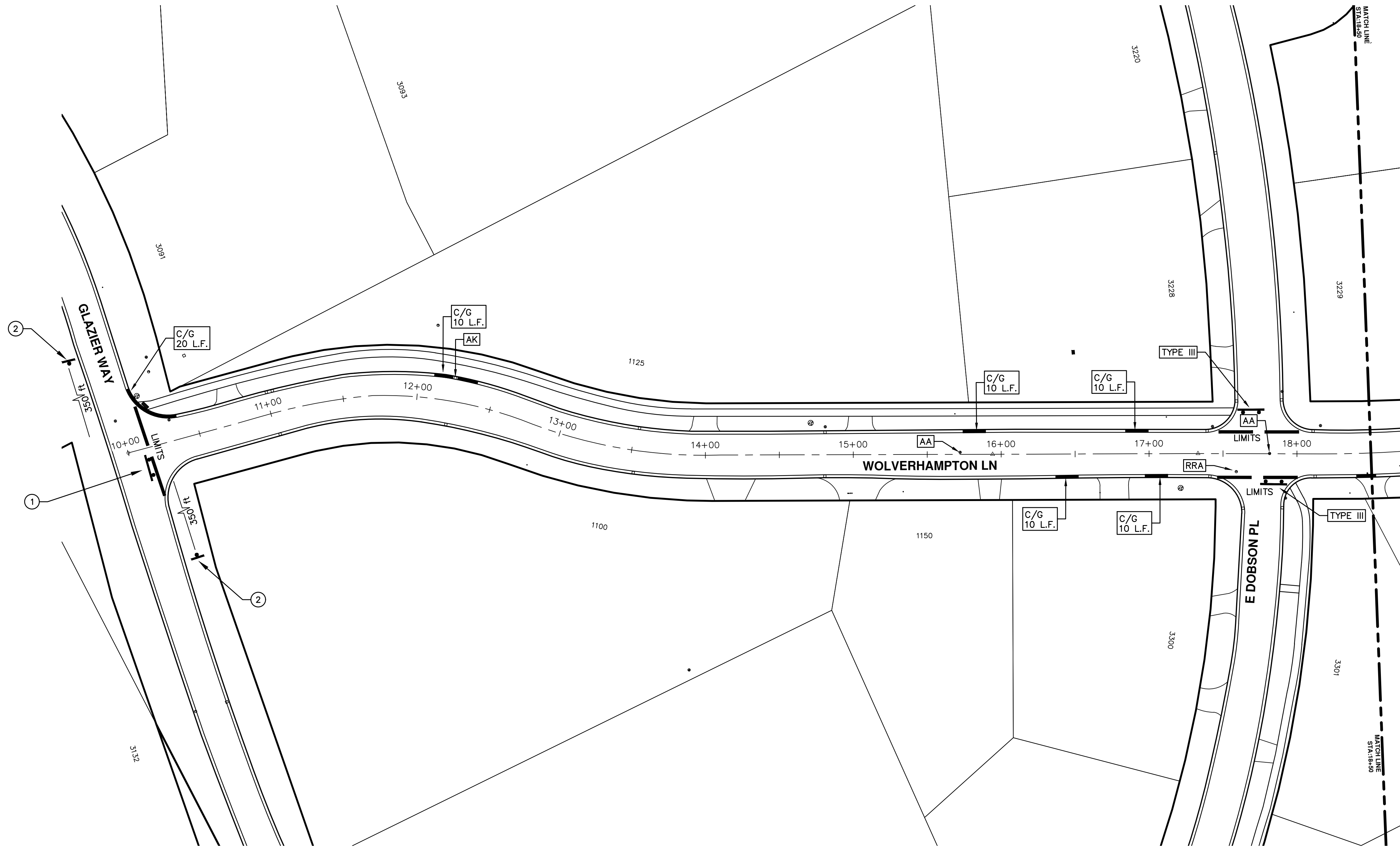
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		DRAWN
		DAD
		CHECKED

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PUBLIC SERVICES  
301 EAST HURON STREET  
ANN ARBOR, MI 48107-8647  
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ENGINEERING - PUBLIC SERVICES - CITY OF ANN ARBOR  
ANNUAL STREET RESURFACING - 2018  
WOLVERHAMPTON LN

DRAWING No. 2018004-36  
SHEET No. 36 OF 72



TRAFFIC CONTROL SIGN		
	SIGN	NUMBER
①		R11-3a 60x30"
②		W20-1 36"x36"  D3-1 36"x36"

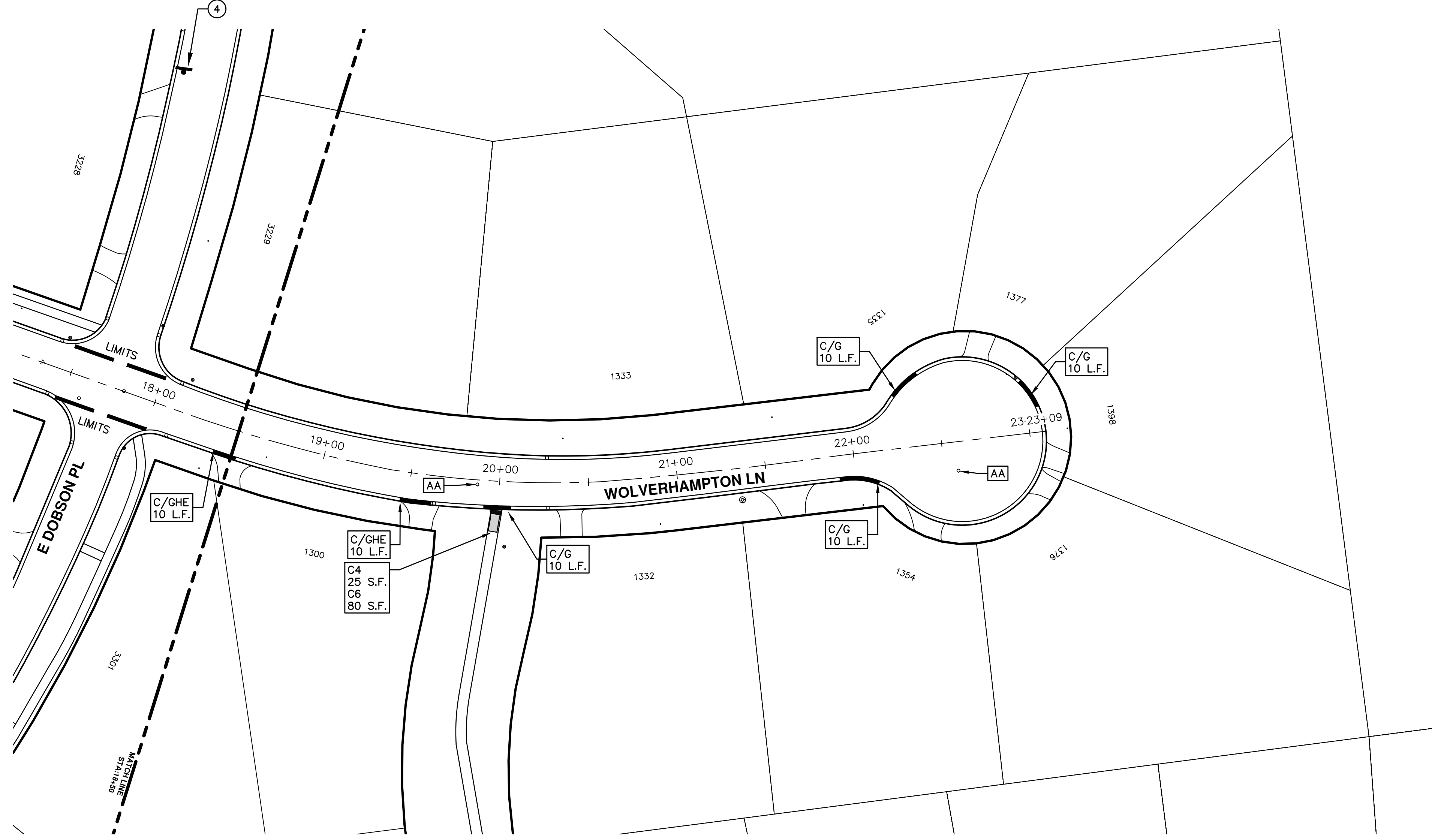
**ENGINEERING - PUBLIC SERVICES - CITY OF ANN ARBOR**  
 SCALE PLAN: 1"=80'  
 DRAWING No. 2018004-37

**ANNUAL STREET RESURFACING - 2018**  
 WOLVERHAMPTON LN  
 STA. 10+00 - STA. 18+50

CITY OF ANN ARBOR  
 PUBLIC SERVICES  
 301 EAST HURON STREET  
 ANN ARBOR, MI 48106-8647  
 ANN ARBOR 734.764.4410  
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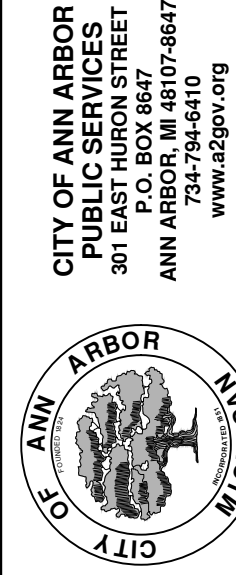
REV.	DESCRIPTION	DATE	DRAWN	CHECKED
00	BID SET	2-27-18	GSLCE	DAD

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



ENGINEERING - PUBLIC SERVICES - CITY OF ANN ARBOR  
 SCALE PLAN: Custom  
 DRAWING No. 2018004-38

ANNUAL STREET RESURFACING - 2018  
 WOLVERHAMPTON LN  
 STA. 18+50 - STA. 23+09



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

REV.	DESCRIPTION	DATE	DRAWN	CHECKED
00	BID SET	2-27-18	GSC/CE	DAD





# CITY OF ANN ARBOR ENGINEERING

## PROJECT LOCATION: EB & WB JACKSON AVENUE

ITB No. 4529 FILE No. 2018004

### CONSTRUCTION METHOD AND SEQUENCING

WORK ON THIS STREET INCLUDES, BUT IS NOT LIMITED TO, THE FOLLOWING ITEMS. COMPLETE THE WORK IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS, AS DIRECTED BY THE ENGINEER, AND UTILIZING PART WIDTH TWO (2) PHASE CONSTRUCTION. PERFORM THE WORK IN THE ORDER INDICATED BELOW UNLESS OTHERWISE AUTHORIZED OR DIRECTED BY THE ENGINEER. COMPLETE ITEMS 7 THRU 15 UTILIZING THE M.O.T. PLAN CURRENTLY IN PLACE, LANE CLOSURES, AND FLAG CONTROL OPERATIONS AS DIRECTED BY THE ENGINEER.

#### PHASE I

1. IMPLEMENT MAINTENANCE OF TRAFFIC (M.O.T.) PLAN, AND INSTALL SOIL EROSION AND SEDIMENTATION CONTROL MEASURES.
2. CONDUCT REMOVAL WORK RELATED TO PAVEMENT, DRAINAGE, AND CONCRETE ITEMS WITH EXCEPTION TO COLDMILLING.
3. INSTALL PROPOSED DRAINAGE STRUCTURES, STORM SEWER, AND UNDERDRAIN AS REQUIRED.
4. PERFORM ALL CONCRETE WORK, INCLUDING RESTORATION.
5. TEMPORARY LOWER ALL STRUCTURE COVERS LOCATED WITHIN THE EXISTING PAVEMENT AREA, INCLUDING GATE AND MONUMENT BOXES.

#### PHASE II

6. REPEAT ITEMS 1 THRU 5 IN THE ORDER SHOWN ABOVE.
7. REMOVE 3.5 INCHES OF EXISTING HMA SURFACE BY COLDMILLING. THIS MAY INCLUDE GRANULAR BASE MATERIAL. DEPTH TO BE DETERMINED BY THE ENGINEER. PROOF ROLL WITH FULLY LOADED TRUCK.
8. PERFORM ALL JOINT AND CRACK CLEANOUT. HMA/HAND PATCHING, UNDERCUTS AND/OR BASE REPAIRS AS REQUIRED.
9. GRADE, SHAPE, AND COMPACT THE EXISTING BASE MATERIAL AS REQUIRED.
10. ADJUST ALL STRUCTURE COVERS, INCLUDING GATE AND MONUMENT BOXES, TO THEIR FINISH ELEVATION.
11. CLEAN PAVEMENT AND PLACE 2.0 INCH LEVELING COURSE HMA MIX (MAJOR STREETS).
12. CLEAN PAVEMENT AND PLACE 1.5 INCH TOP COURSE HMA MIX (MAJOR STREETS).
13. CLEAN PAVEMENT AND PLACE HMA APPROACHES AS REQUIRED.
14. CLEAN PAVEMENT AND COMPLETE ALL PAVEMENT MARKINGS.
15. COMPLETE ALL MISCELLANEOUS CONSTRUCTION INCLUDING ALL CLEAN UP AND FINAL RESTORATION.
16. REMOVE ALL TRAFFIC CONTROL DEVICES, AND 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.

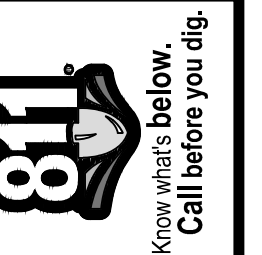
QUANTITIES			
ITEM #	DESCRIPTION	Units	Total
206	Remove HMA Pavement	S.Y.	28
207	Cold Milling Pavement	Tons	270
209	Subgrade Undercutting - Type II	C.Y.	160
220	HMA Patching	Tons	3
222	HMA Pavement Leveling, Regular	Tons	180
224	HMA Pavement Wearing, 36A	Tons	90
230	Rem. Curb & Gutter, Any Type	L.F.	490
232	Rem. Conc. Sidewalk & Drive - Any Thickness	S.F.	300
237	Conc. Curb & Gutter - Any Type - Fixed Form	L.F.	490
240	4" Sidewalk or Ramp	S.F.	0
241	6" Drive, Sidewalk or Ramp	S.F.	300
245	Detectable Warning, Cast in Place	S.F.	0
247	Integral Sidewalk Ret. Wall (6"-18")	S.F.	0
250	2' Dia. Structure	Each	0
254	Lower Structure Cover	Each	4
255	Lower Mon./Gate Valve Box	Each	0
256	Adjust Structure Cover	Each	4
257	Adjust Curb Inlet Structure Cover	Each	0
258	Adjust Mon. or Gate Valve Box	Each	0
259	Manhole Flange & Cover (MDOT Type A)	Each	3
261	Pt. Drain Structures	Each	2
264	12" Sewer, Trench Detail I, Modified	L.F.	0
268	Flowable Fill	C.Y.	14
271	21AA Limestone - C.I.P.	C.Y.	160
282	Plastic Drum - Lighted - Furn. & Operate	Each	18
283	Barricade Type III - Furn. & Operate	Each	2
284	Temp Signs Type - B	S.F.	101
285	No Parking Sign	Each	13
291	12" Thermo. White or Yellow	L.F.	0
594	4" White Thermo.	L.F.	0
595	4" Yellow Thermo.	L.F.	0
596	6" White Thermo.	L.F.	70
597	24" White Thermo.	L.F.	15
598	Pvmt. Marking Symbol	Each	0

TRAFFIC CONTROL & SIGN LEGEND		
QTY.	TYPE	DESCRIPTION
2	W20-1	"ROAD WORK AHEAD"
2	W20-3	"ROAD CLOSED AHEAD"
3	D3-1	CONVENTIONAL GUIDE
2	TYPE III	TYPE III LIGHTED BARRICADE
2	R11-4	Road Closed to Thru Traffic
0	TYPE II	TYPE II BARRICADE DRUM

CONSTRUCTION KEY	
KEY	ASSOCIATED PAY ITEM(S)
AA	• Dr Structure, Adj, Case 1, Modified • Dr Structure, Adj, Case 2, Modified • Dr Structure, Temp Lowering, Modified
AB	• Dr Structure, Temp Lowering, Modified • Gate Box, Adj, Case 1 • Gate Box, Adj, Case 2 • Monument Box Adjust
ADST	• Dr Structure, Adj, Add Depth, Modified
AK	• Dr Structure, Adj, Case 1, Modified
C4	• Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • Grading, Sidewalk • Sidewalk, Conc, 4 inch, Modified
C4HE	• Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • Grading, Sidewalk • Cement • Sidewalk, Conc, 4 inch, Modified
C6	• Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • Grading, Sidewalk • Grading, Sidewalk Ramp • Detectable Warning Surface, Modified • Sidewalk Ramp, Conc, 6 inch, Modified • Sidewalk, Conc, 6 inch, Modified
C8	• Grading, Driveway Approach • Driveway, Nonreinf Conc, 8 inch, Modified
C HE	• Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • Grading, Driveway Approach • Grading, Sidewalk • Grading, Sidewalk Ramp • Cement • Driveway, Nonreinf Conc, 6 inch, Modified • Driveway, Nonreinf Conc, 8 inch, Modified • Detectable Warning Surface, Modified • Sidewalk Ramp, Conc, 6 inch, Modified • Sidewalk, Conc, 6 inch, Modified
C/G	• Curb, Gutter, and Curb and Gutter, Any Type, Rem • Curb and Gutter, Conc
C/GHE	• Curb, Gutter, and Curb and Gutter, Any Type, Rem • Cement • Driveway Opening, Conc, Det M, Modified
CP	• Grading, Sidewalk • Sidewalk, Conc, 4 inch, Modified
CR	• Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem
DS	• Dr Structure, Rem • Sewer, Rem, Less than 24 inch • Dr Structure, 24 inch dia
DSDI	• Dr Structure, Rem • Sewer, Rem, Less than 24 inch • Dr Structure, Double Inlet
PT	• Dr Structure, Point
RRA	• Dr Structure Cover, Type B • Dr Structure Cover, Type B, Special • Dr Structure, Adj, Case 1, Modified • Dr Structure, Temp Lowering, Modified
RRK	• Dr Structure Cover, Type K • Dr Structure, Adj, Case 1, Modified
RS	• Dr Structure, Reconstruct
TYPE II	• Plastic Drum, High Intensity, Lighted, Furn • Plastic Drum, High Intensity, Lighted, Oper
TYPE III	• Barricade, Type III, High Intensity, Double Sided, Lighted, Furn • Barricade, Type III, High Intensity, Double Sided, Lighted, Oper

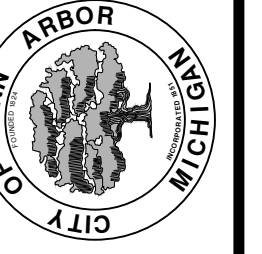


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CITY OF ANN ARBOR PUBLIC SERVICES  
301 EAST HURON STREET, P.O. BOX 8647  
ANN ARBOR, MICHIGAN 48107-8647  
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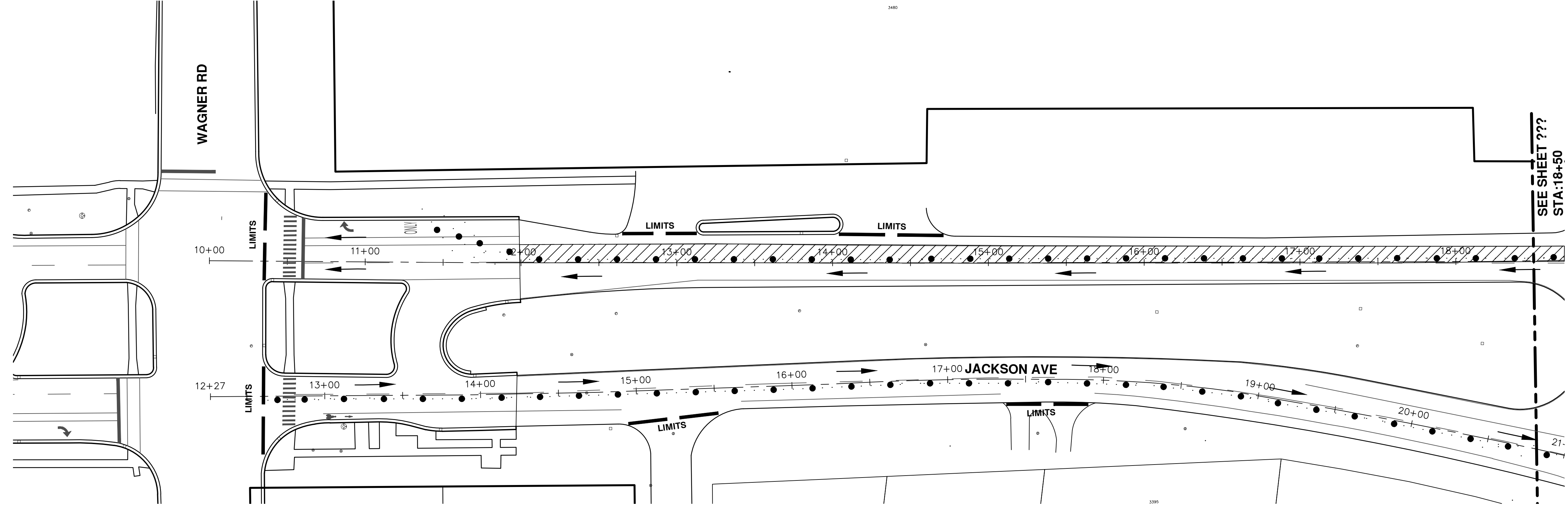
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		DRAWN
		CHECKED

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



PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR  
ANNUAL STREET RESURFACING - 2018  
EB & WB JACKSON AVENUE

DRAWING No.  
2018004-39

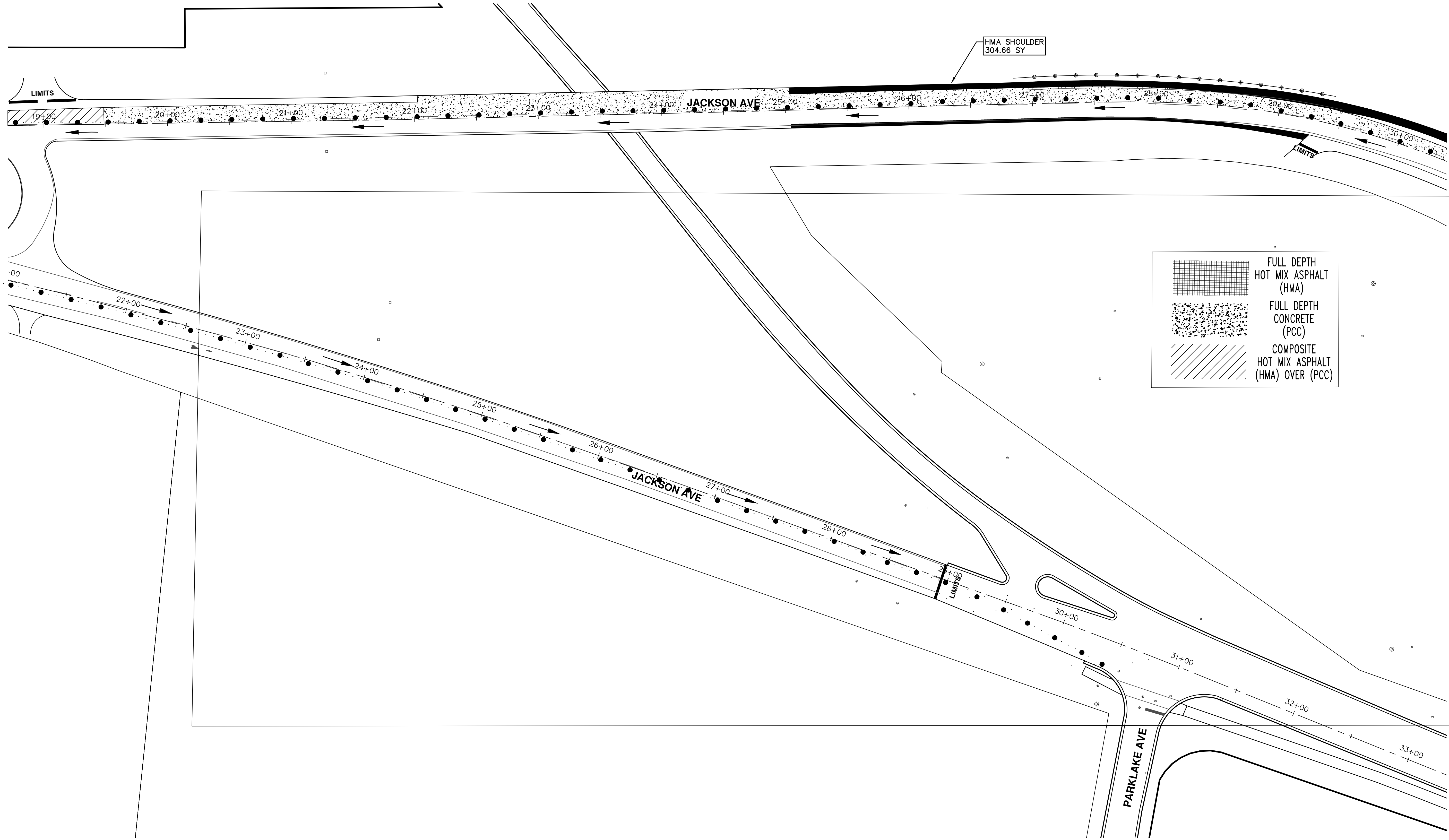


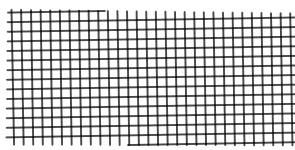
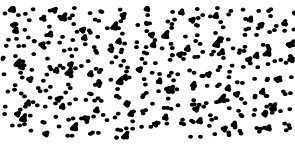
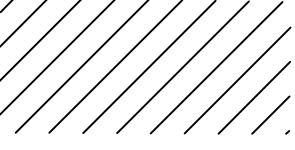
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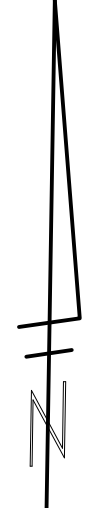
PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR ANNUAL STREET RESURFACING - 2018 JACKSON AVENUE STA. 10+00 - STA. 18+50 PHASE1 PHASE 1	CITY OF ANN ARBOR PUBLIC SERVICE 301 EAST HURON STREET ANN ARBOR, MI 48106-8647 ANN ARBOR, MI 48106-8647 www.a2gov.org
SHEET No. 40 OF 72	REV. 00 BID SET DESCRIPTION DATE 2-27-18 DAD CHECKED GSC DRAWN




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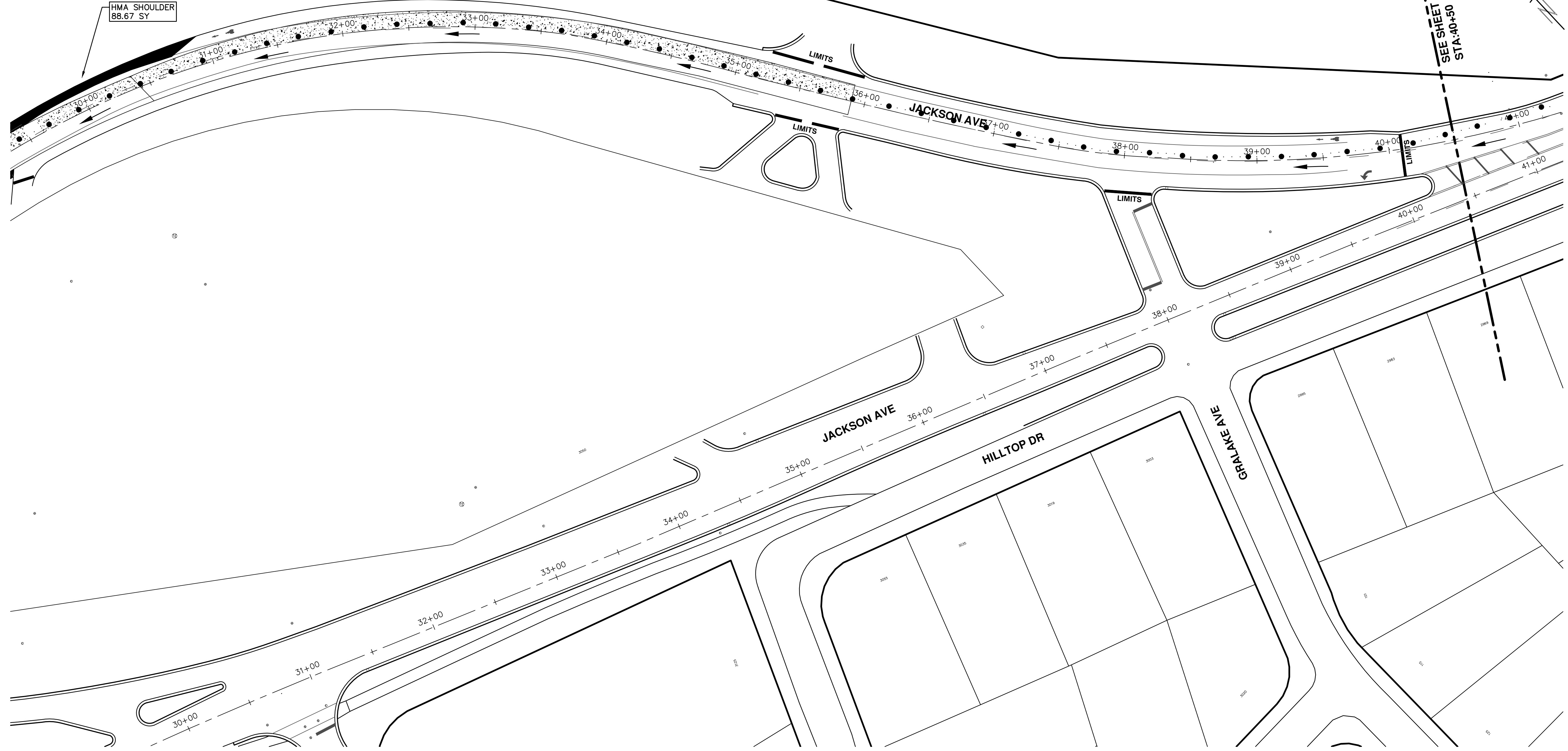


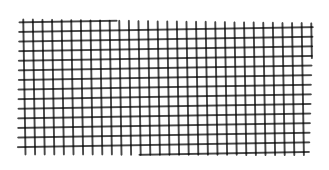
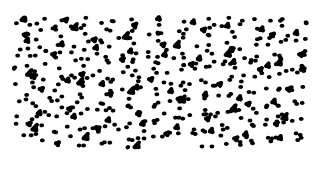
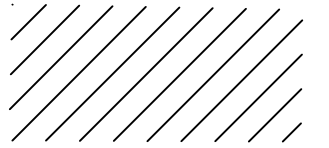
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	FULL DEPTH CONCRETE (PCC)
	COMPOSITE HOT MIX ASPHALT (HMA) OVER (PCC)




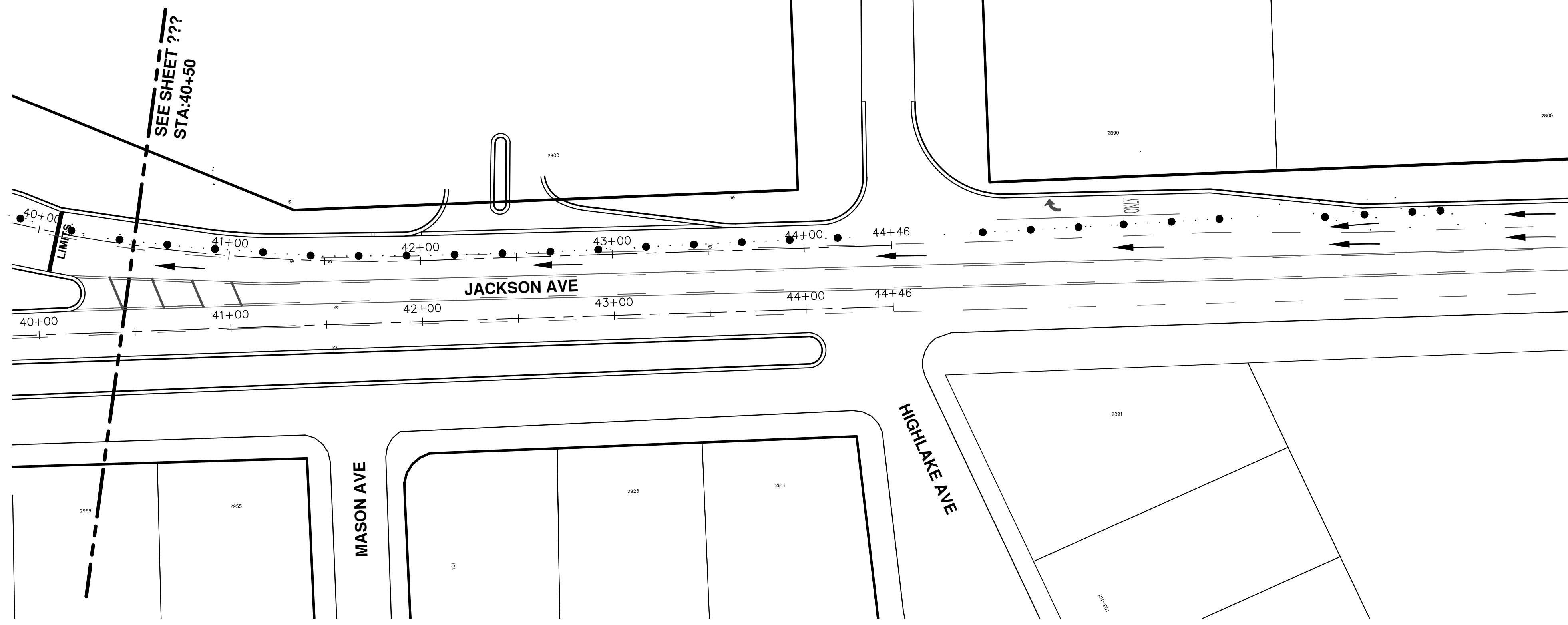
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PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR ANNUAL STREET RESURFACING - 2018 EB & WB JACKSON AVENUE STA. 18+50 - STA. 29+50 PHASE1 PHASE 1	DESCRIPTION DATE DRAWN CHECKED
SCALE PLAN: 1"=80' DRAWING No.: 2018004-41	2-27-18 GSC/CE DAD
SHEET No. <b>41 OF 72</b>	

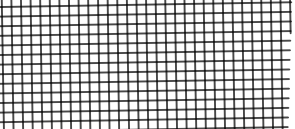
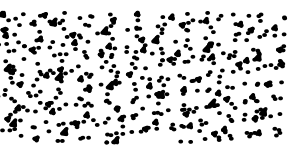
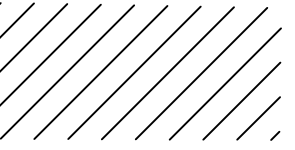
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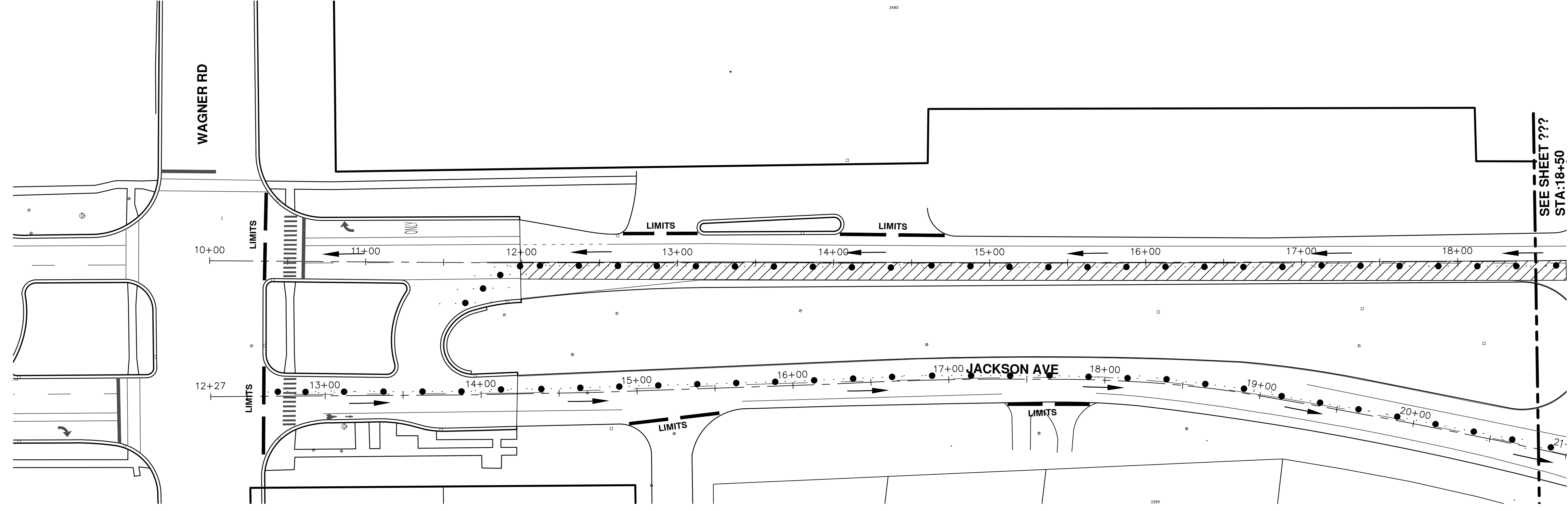


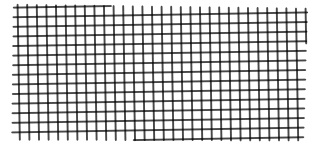
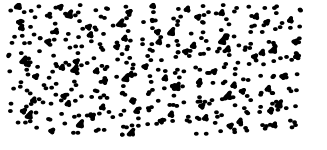
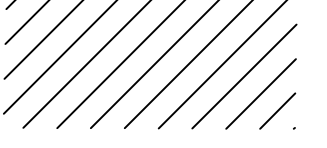
	FULL DEPTH HOT MIX ASPHALT (HMA)
	FULL DEPTH CONCRETE (PCC)
	COMPOSITE HOT MIX ASPHALT (HMA) OVER (PCC)



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CITY OF ANN ARBOR PUBLIC SERVICES 301 EAST HURON STREET ANN ARBOR, MI 48106-6647 ANN ARBOR: 734.794.4410 www.a2gov.org	BID SET 2-27-18 DATE DRAWN GSC/CE CHECKED DAD
<b>PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR</b> <b>ANNUAL STREET RESURFACING - 2018</b> EB & WB JACKSON AVENUE STA. 29+50 - STA. 40+50 PHASE I <b>PHASE I</b>	
SCALE PLAN: 1"=8' DRAWING No. <b>2018004-42</b>	SHEET No. <b>42 OF 72</b>



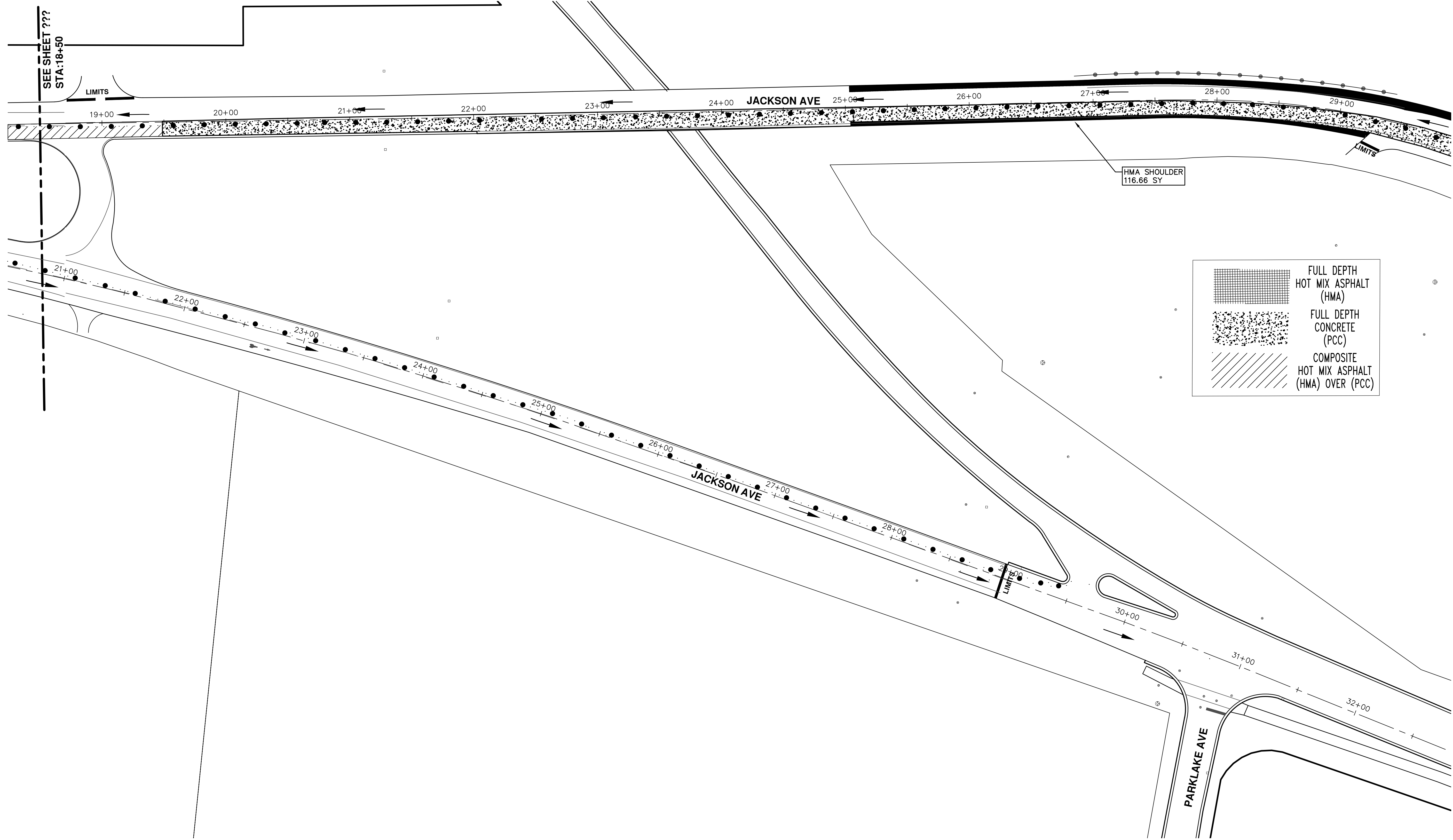
	FULL DEPTH HOT MIX ASPHALT (HMA)
	FULL DEPTH CONCRETE (PCC)
	COMPOSITE HOT MIX ASPHALT (HMA) OVER (PCC)



	FULL DEPTH HOT MIX ASPHALT (HMA)
	FULL DEPTH CONCRETE (PCC)
	COMPOSITE HOT MIX ASPHALT (HMA) OVER (PCC)

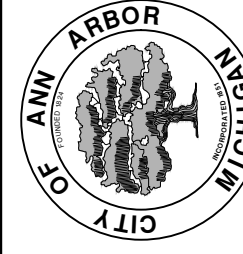
 Know what's below. Call Before you dig.	
PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR ANNUAL STREET RESURFACING - 2018 JACKSON AVENUE STA. 10+00 - STA. 18+50 PHASE2	CITY OF ANN ARBOR PUBLIC SERVICES 301 EAST HURON STREET ANN ARBOR, MI 48106-8647 ANN ARBOR, MI 48106-8647 www.a2gov.org
SHEET No. 44 OF 72	DRAWING No. 2018004-44
SCALE PLAN: 1"=80' 	REV.
BID SET 00	DESCRIPTION
DATE 2-27-18	DRAWN GSC/CE
CHECKED DAD	CHECKED

T:\2018004\Plan Production\Major Streets\2018004 - WB Jackson Avenue.dwg Dwg Created: 27-Sep-17 - \_a2\_standard.bw.stb - Plot Date: 27-Feb-18



REV.	DESCRIPTION	DATE	DRAWN	CHECKED
00	BID SET	2-27-18	GSLCE	DAD

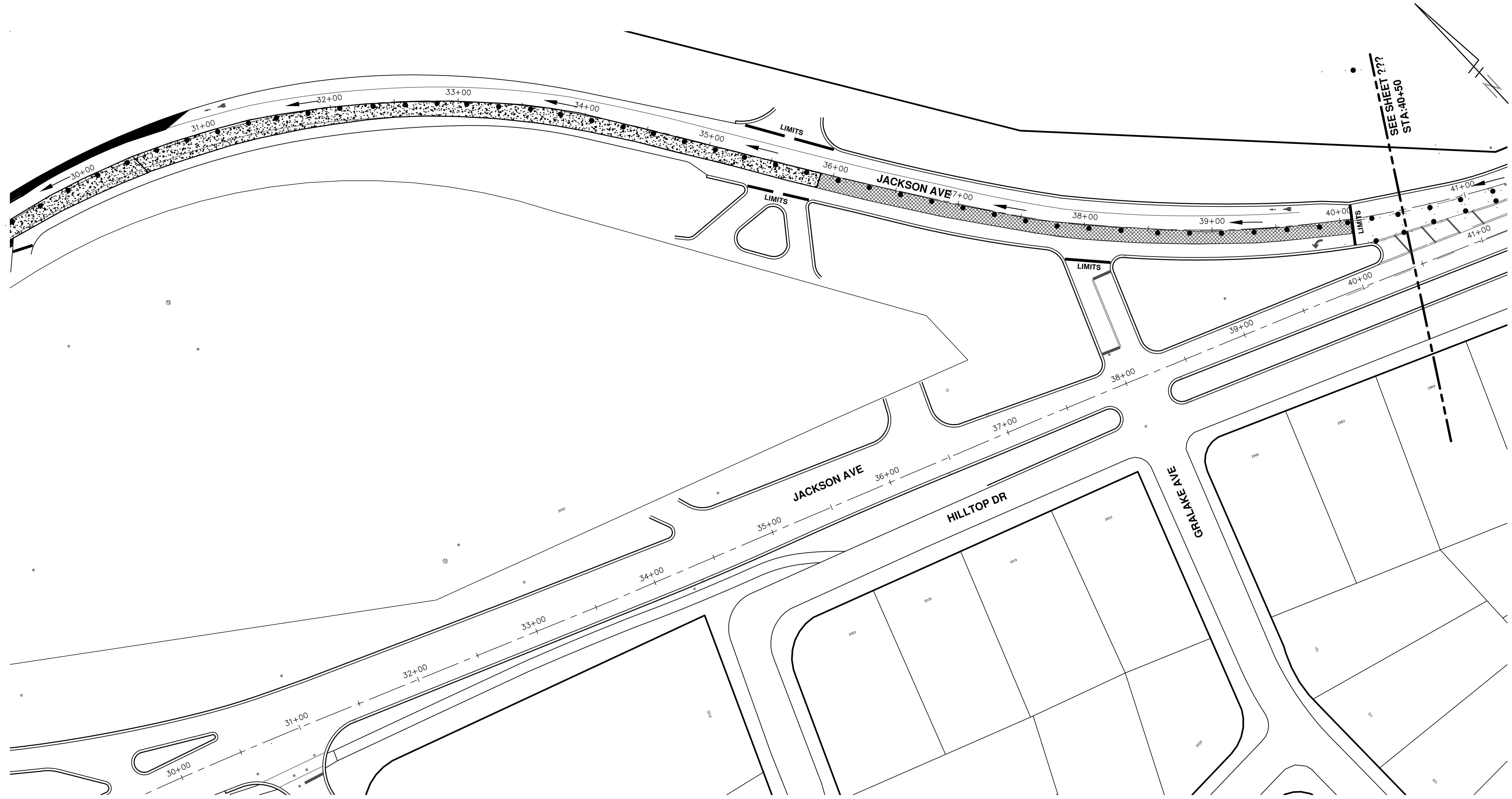
CITY OF ANN ARBOR  
PUBLIC SERVICE  
301 EAST HURON STREET  
ANN ARBOR MI 48106-8647  
www.a3gov.org

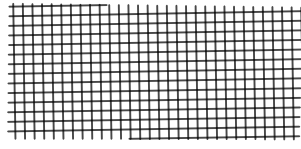
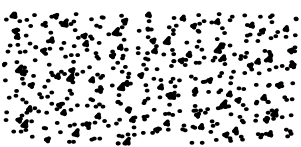



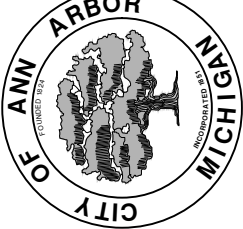
**PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR**  
**ANNUAL STREET RESURFACING - 2018**  
JACKSON AVENUE  
STA. 18+50 - STA. 29+50 PHASE 2

SCALE PLAN: 1"=80'  
DRAWING No. 2018004-45

T:\2018004\Plan Production\Major Streets\2018004 - WB Jackson Avenue.dwg Created: 27-Sep-17 - \_a2\_standard\_bw.stb - Plot Date: 27-Feb-18



	FULL DEPTH HOT MIX ASPHALT (HMA)
	FULL DEPTH CONCRETE (PCC)
	COMPOSITE HOT MIX ASPHALT (HMA) OVER (PCC)



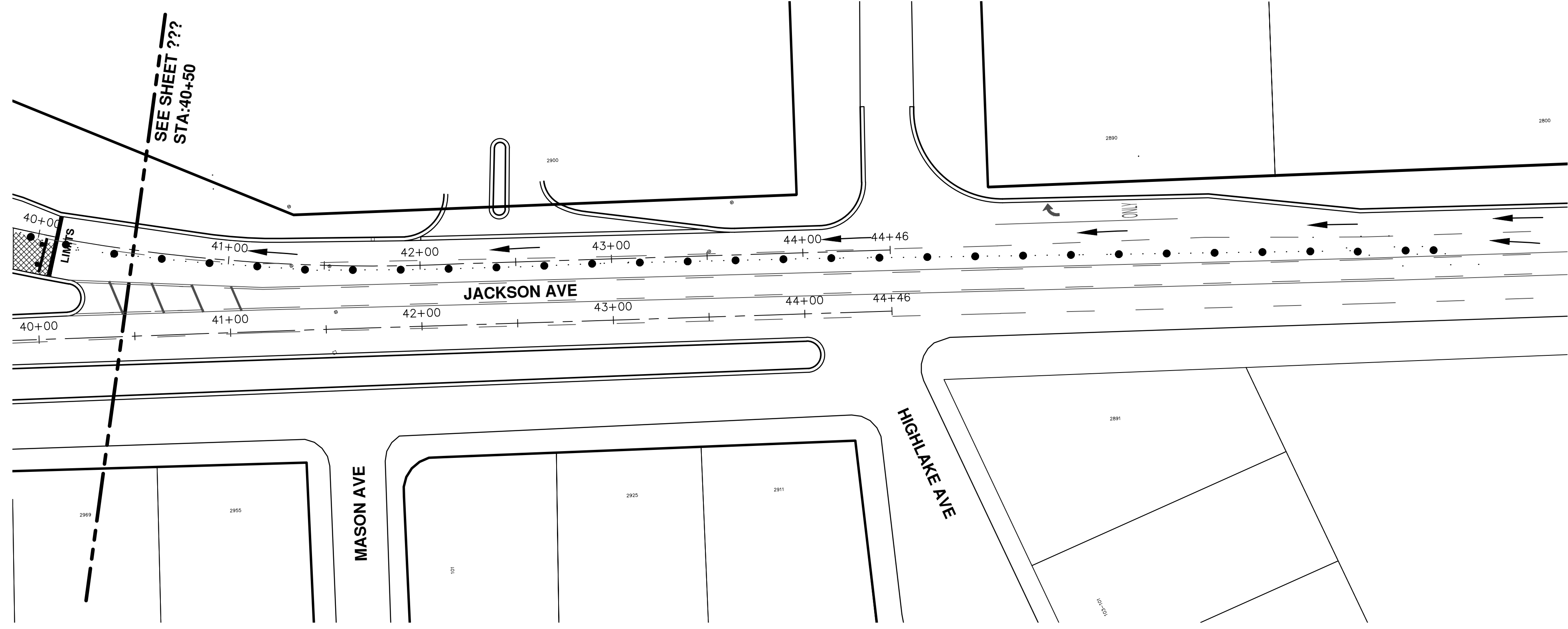
**CITY OF ANN ARBOR**  
PUBLIC SERVICES - CITY OF ANN ARBOR  
ANNUAL STREET RESURFACING - 2018  
JACKSON AVENUE  
STA. 29+50 - STA. 40+50 PHASE 2

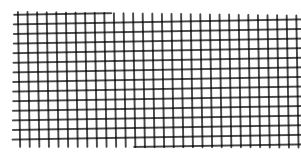
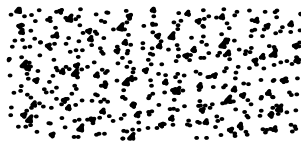
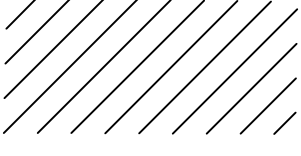
811  
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REV.	DESCRIPTION	DATE	DRAWN	CHECKED
00	BID SET	2-27-18	GSC/E	DAD

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ANN ARBOR: 734.794.4410  
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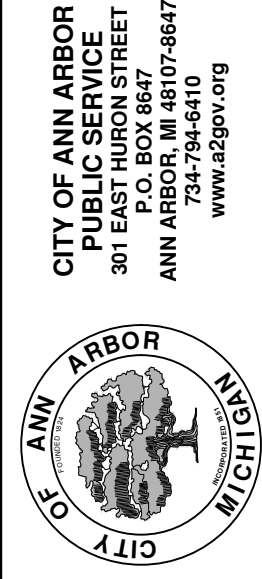
SCALE PLAN: 1"=80'  
DRAWING No.: 2018004-46  
SHEET No.: 46 OF 72



	FULL DEPTH HOT MIX ASPHALT (HMA)
	FULL DEPTH CONCRETE (PCC)
	COMPOSITE HOT MIX ASPHALT (HMA) OVER (PCC)

SHEET No.  
**47 OF 72**

**PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR**  
 SCALE PLAN: 1"=80'  
**ANNUAL STREET RESURFACING - 2018**  
 JACKSON AVENUE  
 STA. 40+50 - 44+46 PHASE 2

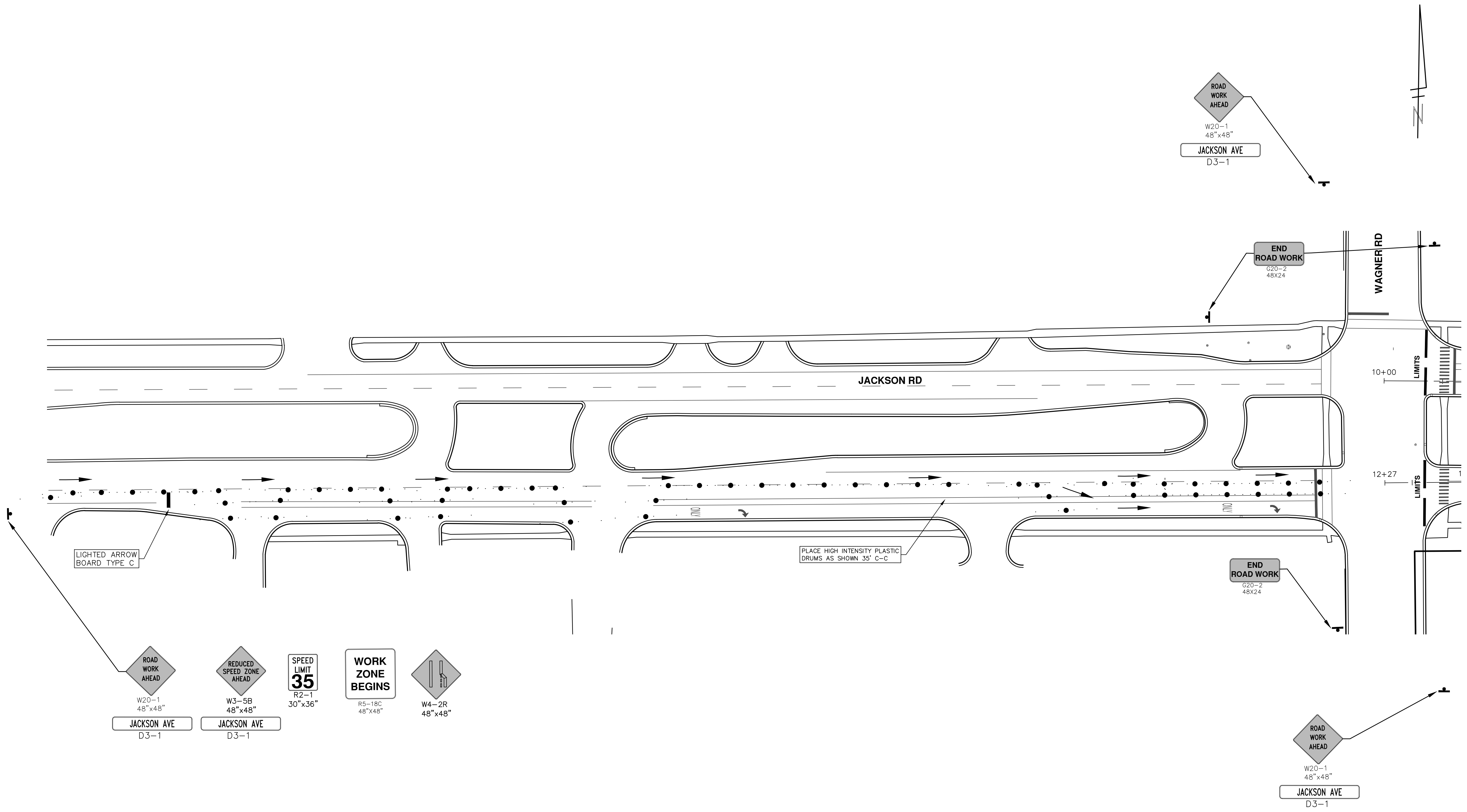


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REV.	DESCRIPTION	DATE	DRAWN	CHECKED
00	BID SET	2-27-18	GSLCE	DAD



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 ANNUAL STREET RESURFACING - 2018  
 JACKSON AVENUE

SCALE PLAN: Custom  
 DRAWING No. 2018004-48

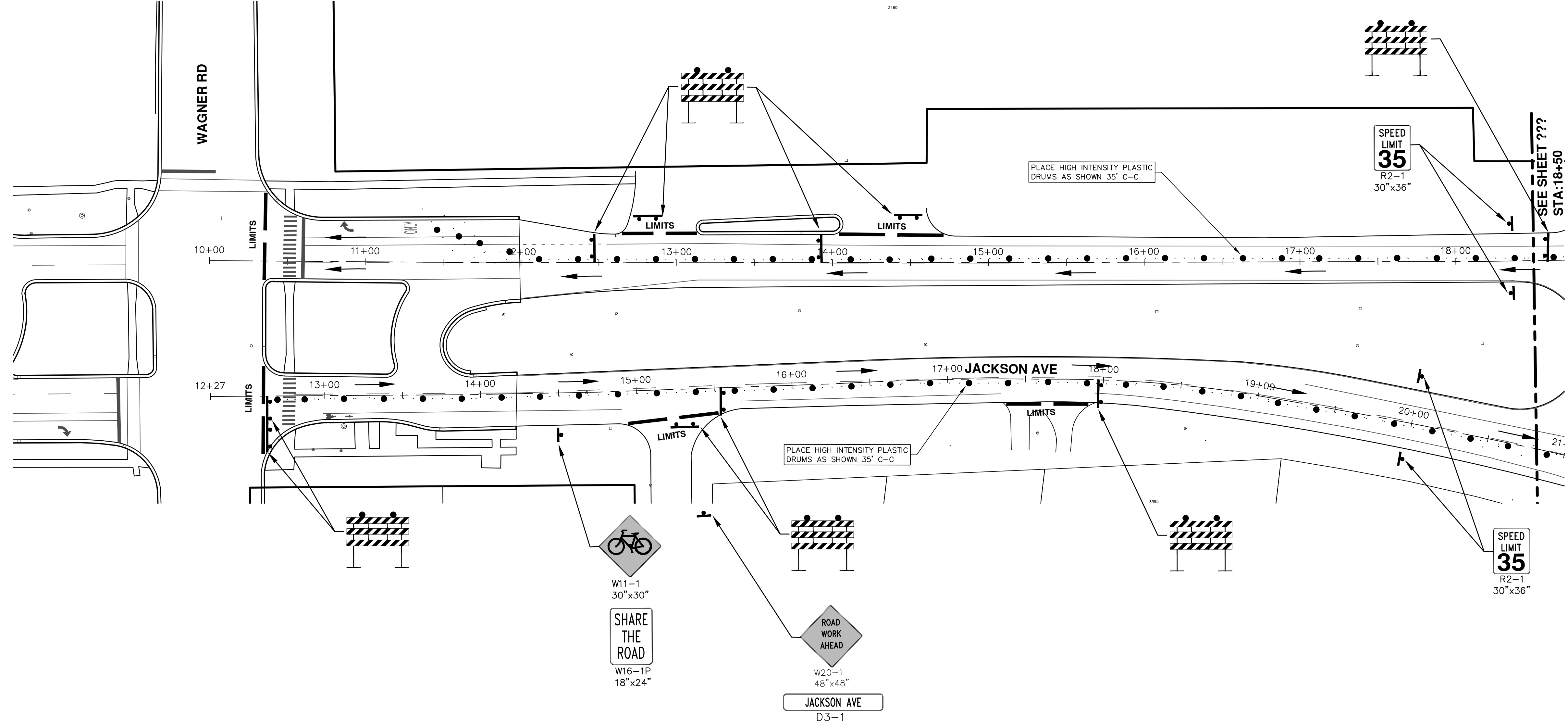
STA. 0+00 - STA. 10+00 TRAFFIC CONTROL PHASE 1 / PHASE 2

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REV.	DESCRIPTION	DATE	DRAWN	CHECKED
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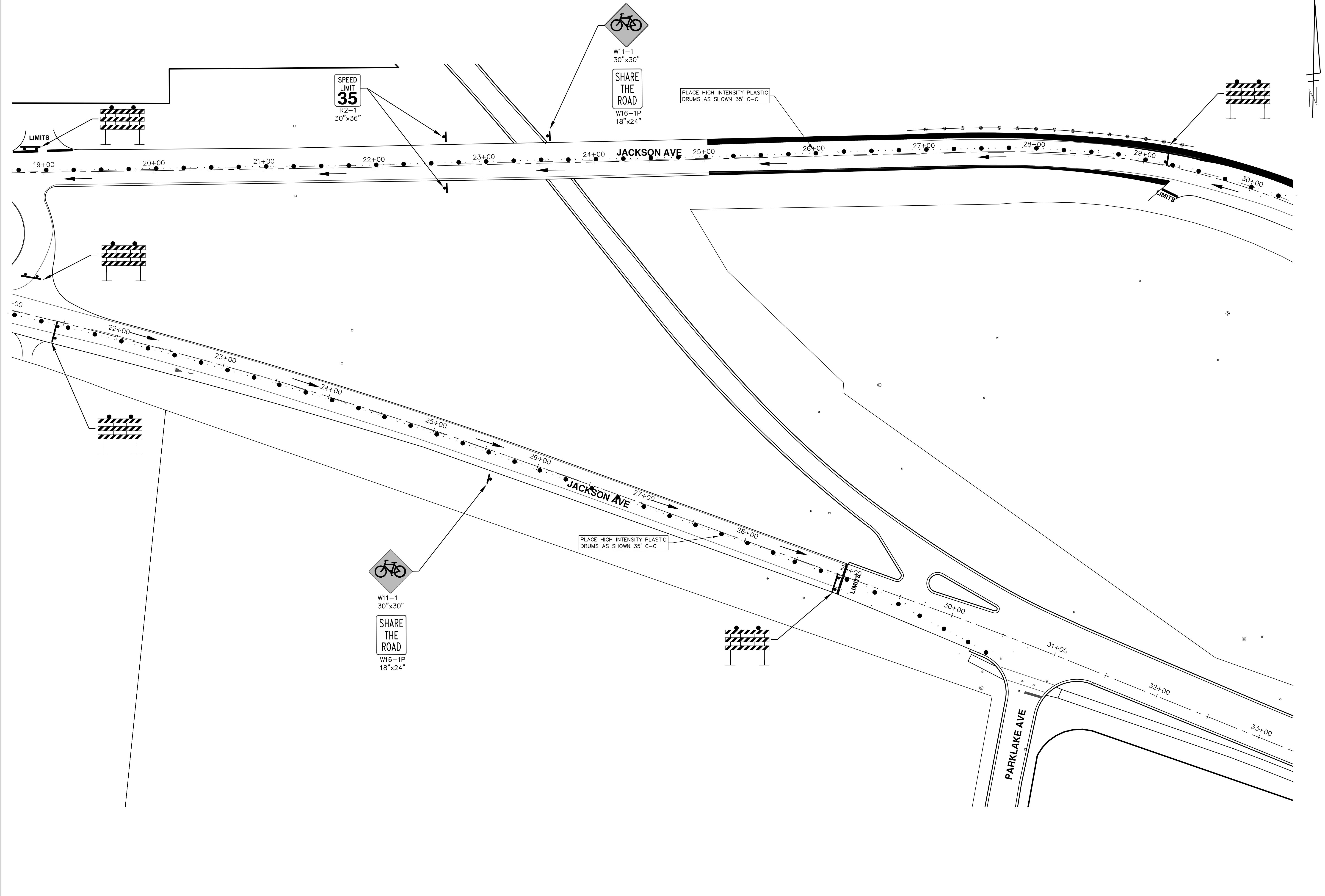
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REV.	DESCRIPTION
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REV.	DESCRIPTION	DATE	DRAWN	CHECKED
01		2-27-18	GSC/CE	DAD

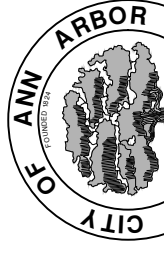


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REV.	DESCRIPTION
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03	GSC/CE
04	DAD
05	CHECKED
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100	DATE

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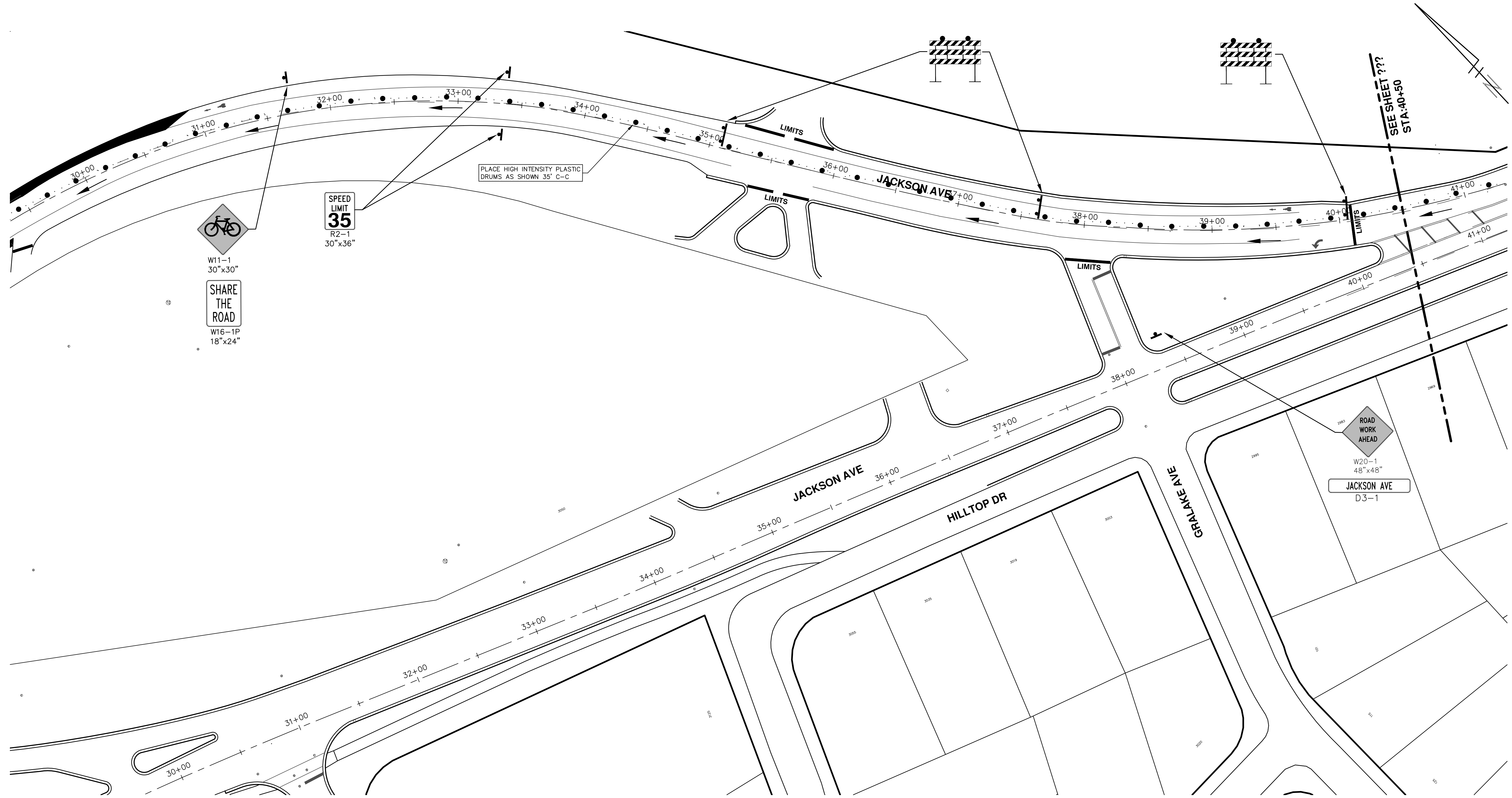


**PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR**  
**ANNUAL STREET RESURFACING - 2018**  
 JACKSON AVENUE  
 STA. 18+50 - STA. 29+50 TRAFFIC CONTROL PHASE 1

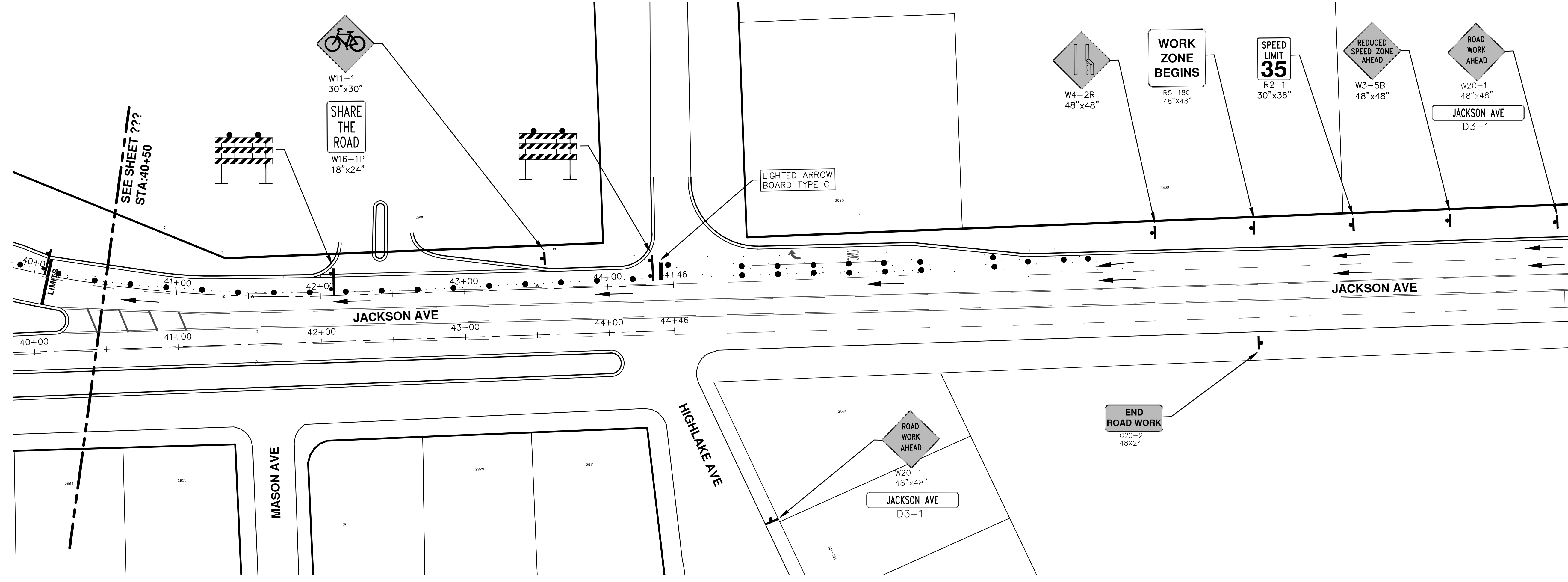
SCALE PLAN: 1"=40'  
 DRAWING No. 2018004-50

SHEET No. 50 OF 72

T:\2018004\Plan Production\Major Streets\2018004 - WB Jackson Avenue.dwg Created: 27-Sep-17 - \_a2 standard bw.stb - Plot Date: 27-Feb-18



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<p>00      BID SET      2-27-18      GSC/E      DAD</p>	
<p>PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR          ANNUAL STREET RESURFACING - 2018          JACKSON AVENUE</p>	
<p>SCALE PLAN: 1"=80'</p>	<p>STA. 29+50 - STA. 40+50 TRAFFIC CONTROL PHASE 1</p>
<p>DRAWING No. 2018004-51</p>	<p>51 OF 72</p>
<p>CITY OF ANN ARBOR          PUBLIC SERVICE          301 EAST HURON STREET          ANN ARBOR, MI 48106-6647          ANN ARBOR: 734.794.4410          www.a2gov.org</p>	

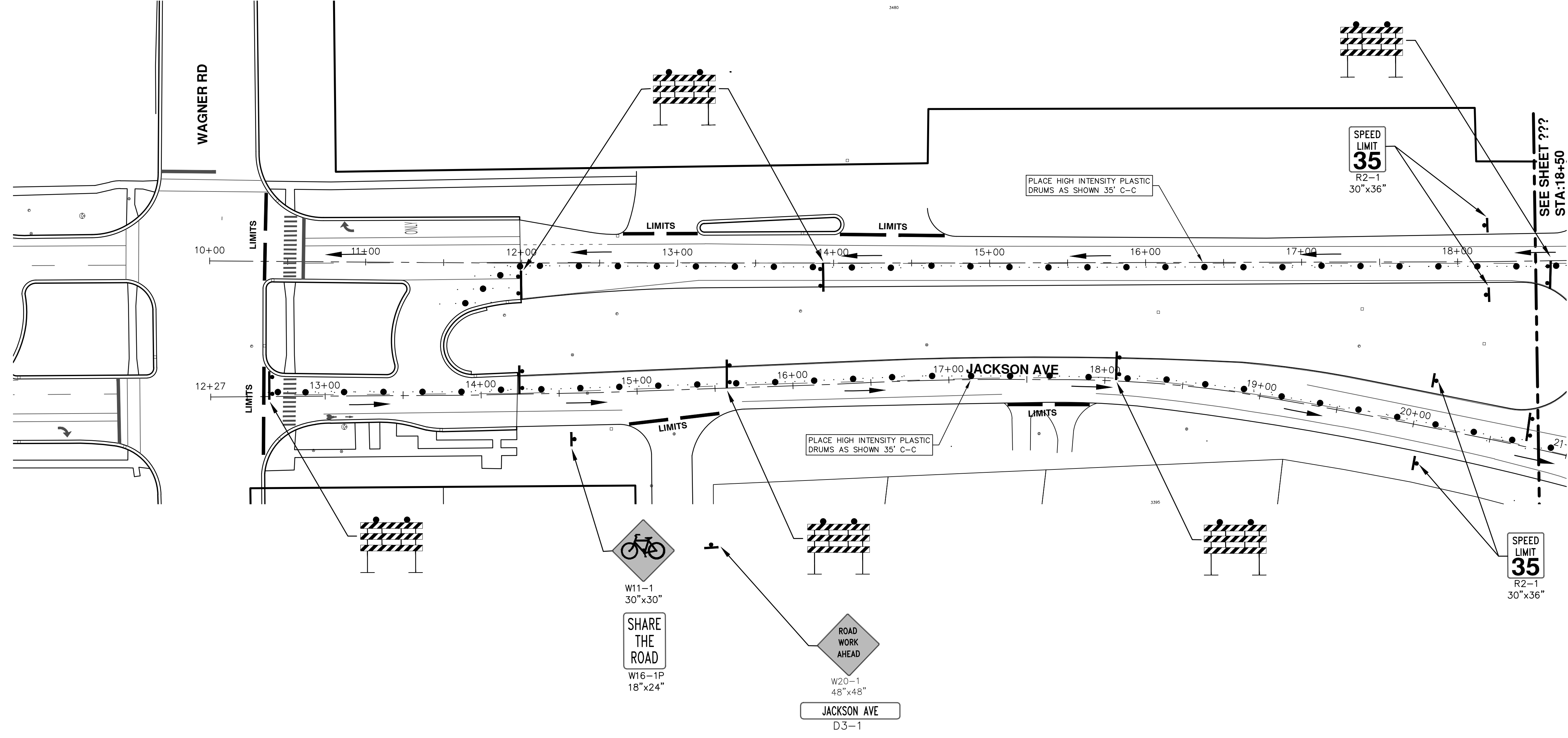


REV.	DESCRIPTION	DATE	DRAWN	CHECKED
00	BID SET	2-27-18	GSLCE	DAD

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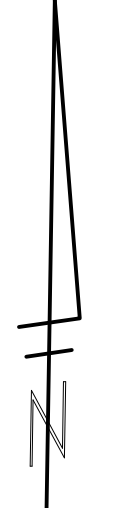
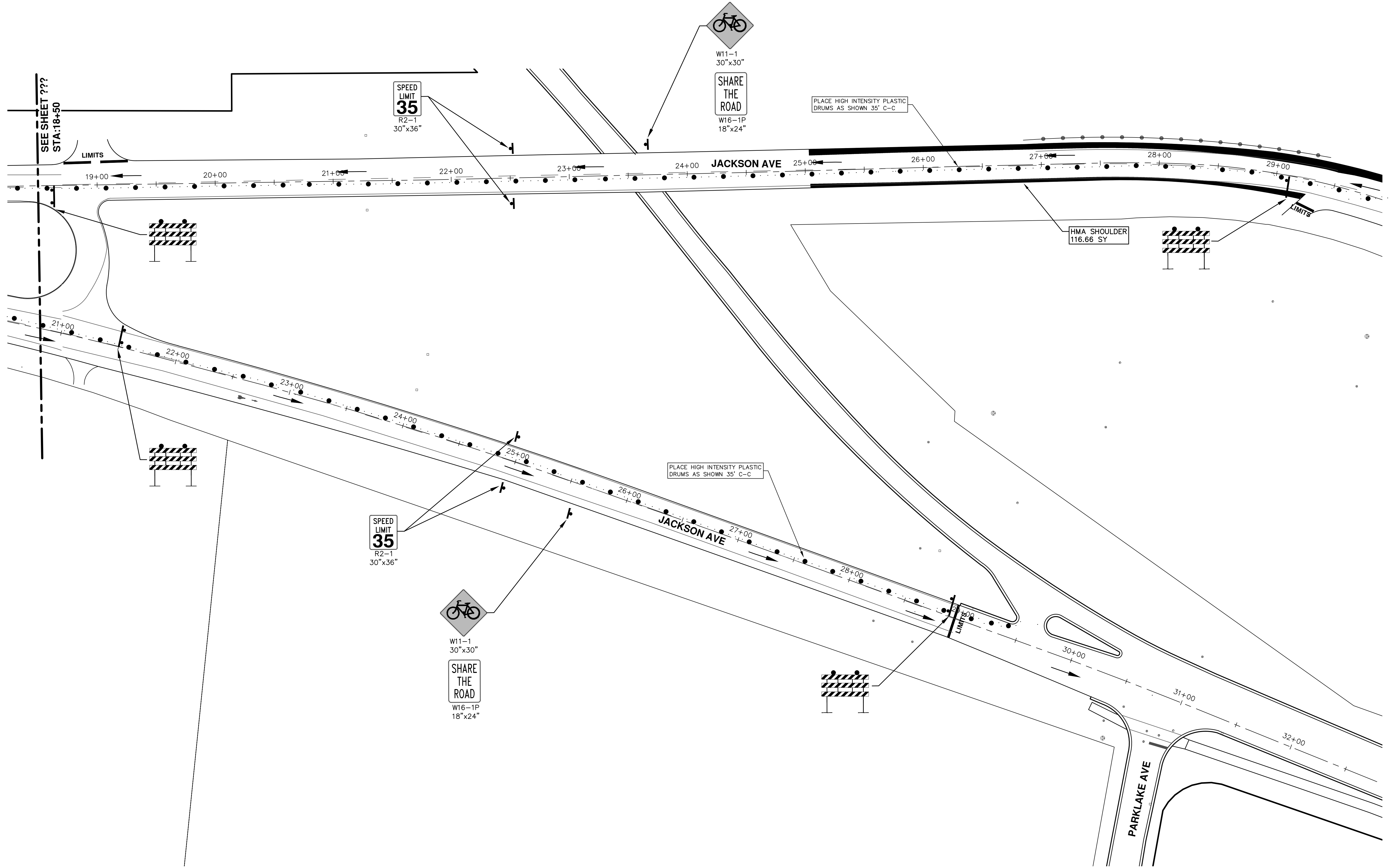


**PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR**  
ANNUAL STREET RESURFACING - 2018  
JACKSON AVENUE  
STA. 40+50 - STA. 44+46 TRAFFIC CONTROL PHASE 1



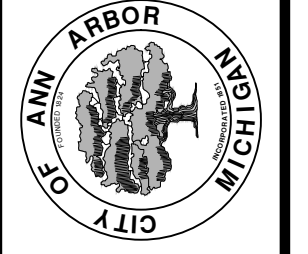
<p><b>PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR</b>          ANNUAL STREET RESURFACING - 2018          JACKSON AVENUE</p>	<p>ANN ARBOR          CITY OF ANN ARBOR          PUBLIC SERVICE          301 EAST HURON STREET          ANN ARBOR, MI 48106-8647          ANN ARBOR 734-794-4410          www.a2gov.org</p>
<p>SCALE PLAN: 1"=40'</p>	<p>DATE: 2-27-18</p>
<p>DRAWING No. 2018004-53</p>	<p>DESCRIPTION</p>
<p>SHEET No. 53 OF 72</p>	<p>REV.</p>

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REV.	DESCRIPTION	DATE	DRAWN	CHECKED
00	BID SET	2-27-18	GSLCE	DAD

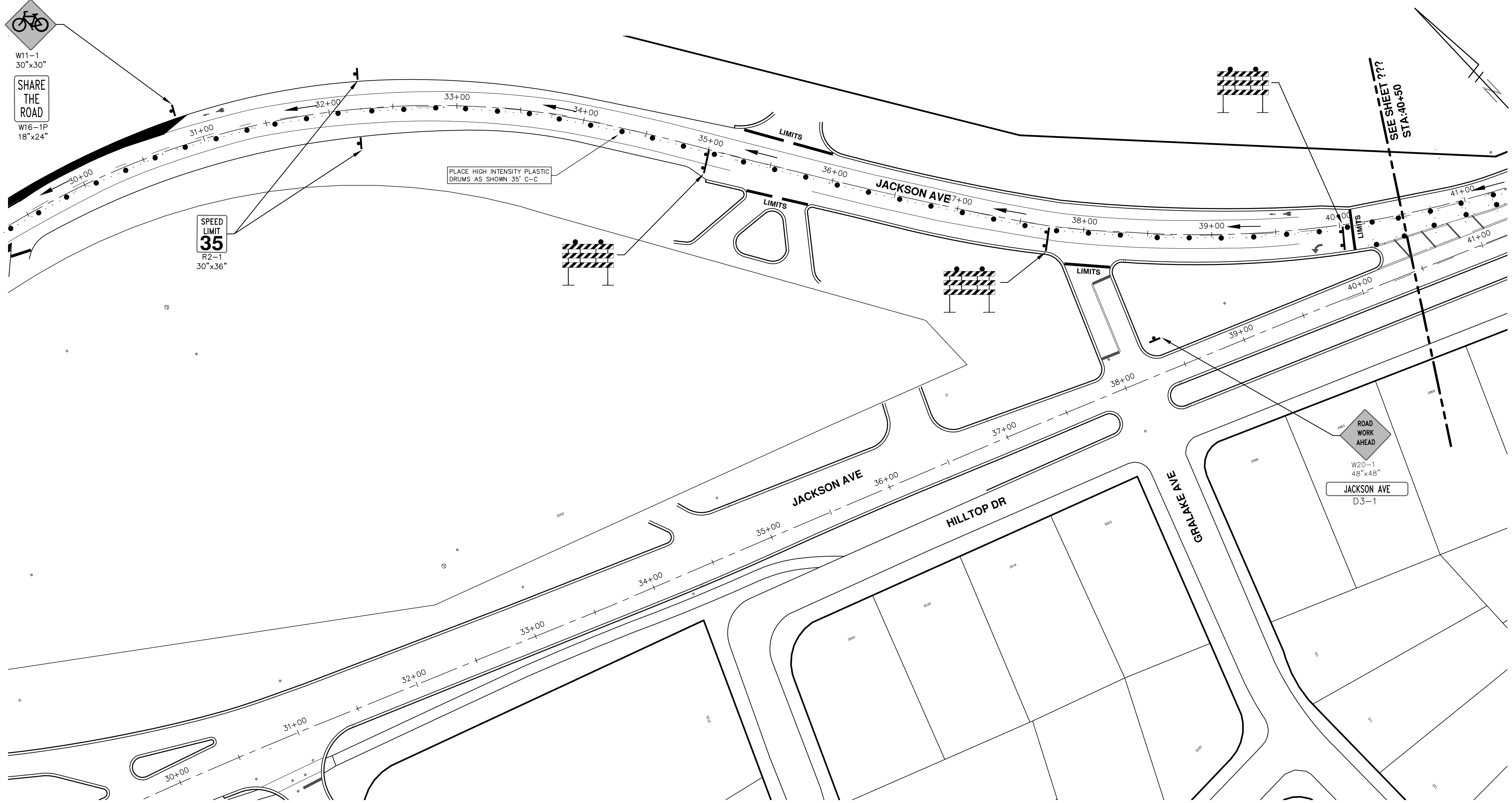
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**ANNUAL STREET RESURFACING - 2018**  
 JACKSON AVENUE  
 STA. 18+50 - STA. 29+50 TRAFFIC CONTROL PHASE 2

SCALE PLAN: 1"=80'  
 DRAWING No. 2018004-54

T:\2018004\Plan Production\Major Streets\2018004 - WB Jackson Avenue.dwg Created: 27-Sep-17 - \_a2\_standard\_bw.stb - Plot Date: 27-Feb-18



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REV.	DESCRIPTION	DATE	DRAWN	CHECKED
00	BID SET	2-27-18	GS/CE	DAD

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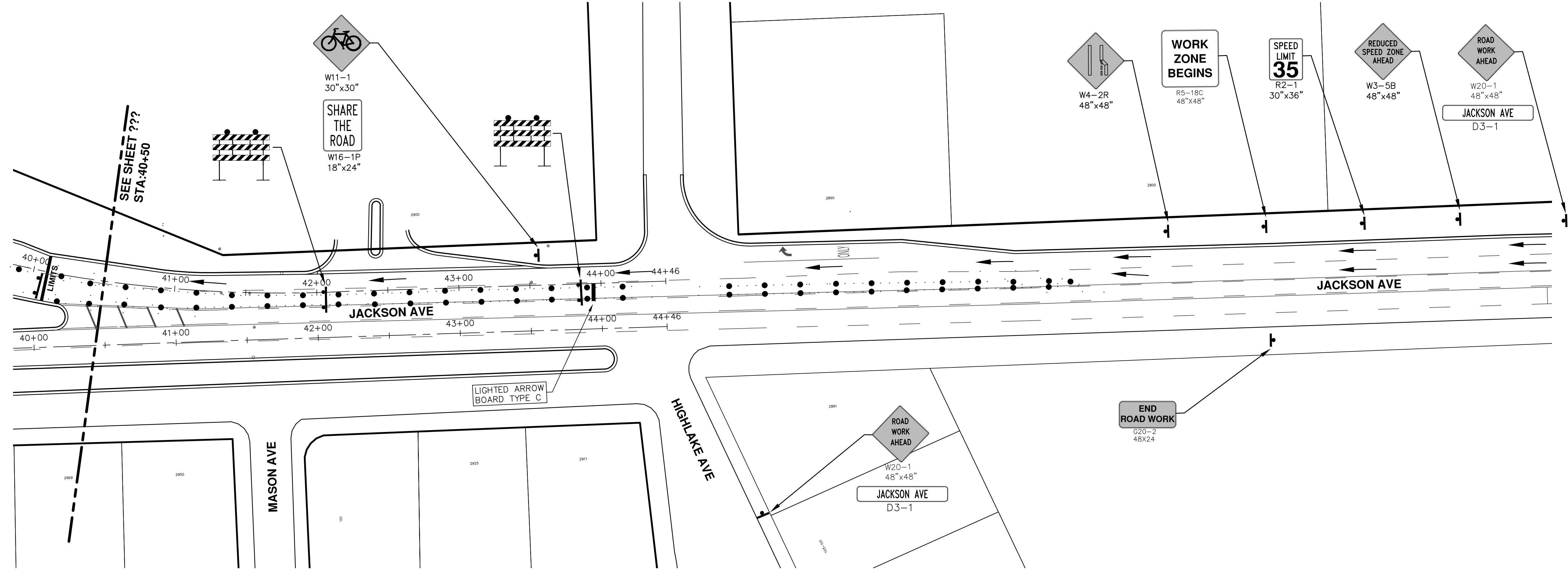
**PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR**  
**ANNUAL STREET RESURFACING - 2018**  
JACKSON AVENUE

SCALE PLAN: 1"=80'  
DRAWING No. 2018004-55

STA. 29+50 - STA. 40+50 TRAFFIC CONTROL PHASE 2

SHEET No. 55 OF 72

T:\2018004\Plan Production\Major Streets\2018004 - WB Jackson Avenue.dwg Dwg Created: 27-Sep-17 - \_a2\_standard bw.stb - Plot Date: 27-Feb-18



NO	REV.	DESCRIPTION	DATE	DRAWN	CHECKED
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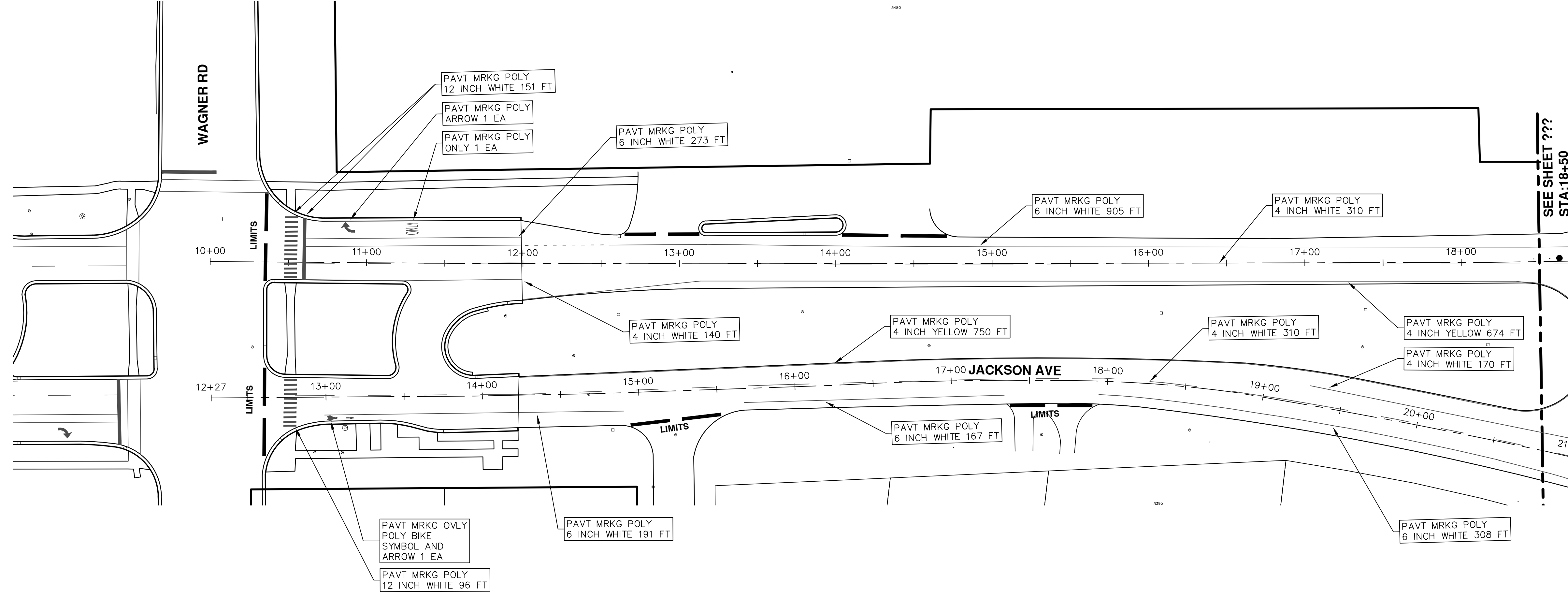
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**PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR**  
**ANNUAL STREET RESURFACING - 2018**  
JACKSON AVENUE  
STA. 40+50 - STA. 44+46 TRAFFIC CONTROL PHASE 2

SCALE PLAN: 1"=80'  
DRAWING No.: 2018004-56





REV.	DESCRIPTION	DATE	DRAWN	CHECKED
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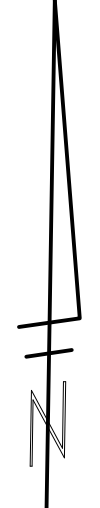
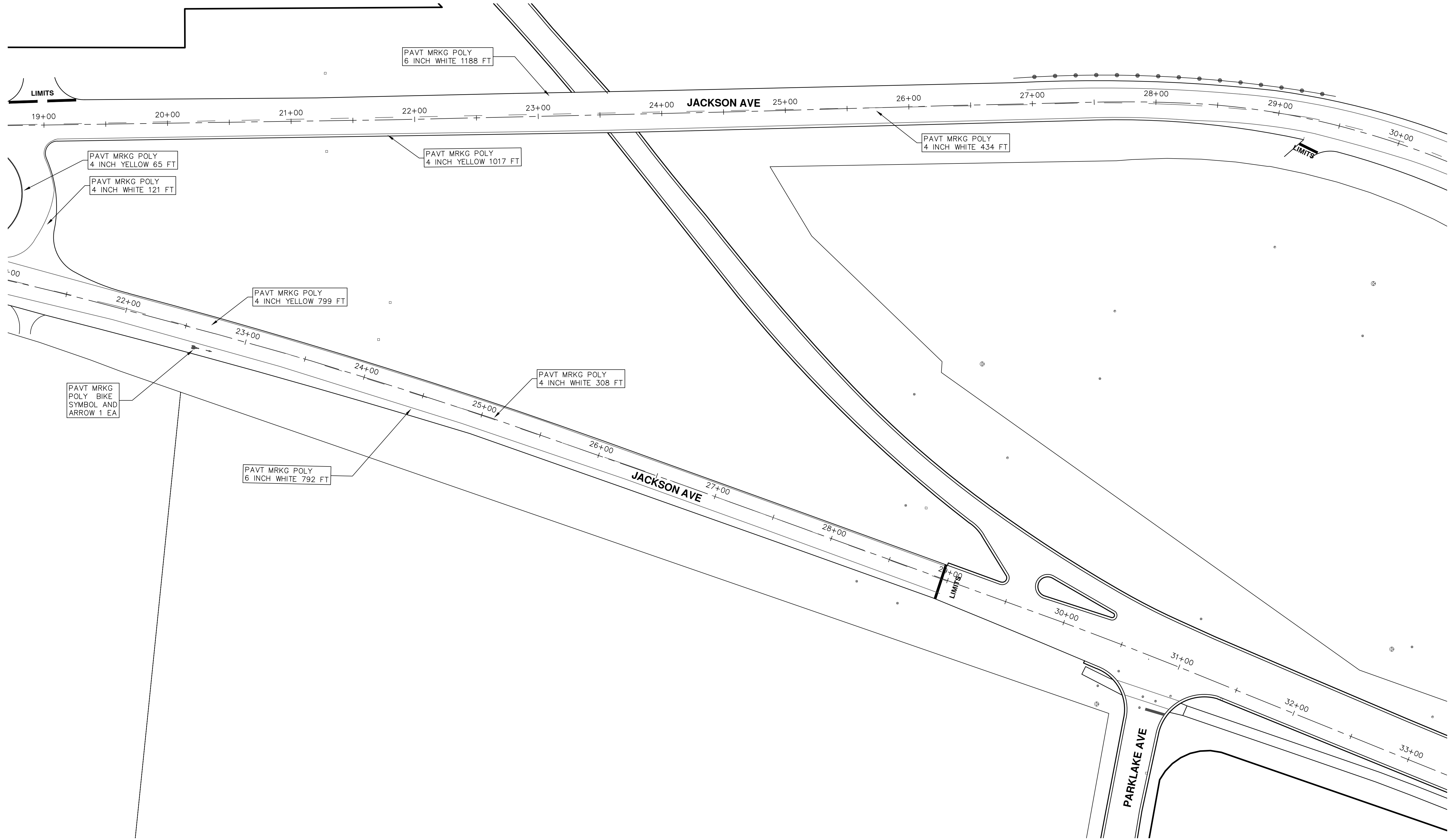
CITY OF ANN ARBOR  
PUBLIC SERVICES  
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**PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR**  
**ANNUAL STREET RESURFACING - 2018**  
JACKSON AVENUE  
STA. 10+00 - STA. 18+50 PAVEMENT MARKINGS

SCALE PLAN: 1"=80'  
DRAWING No. 2018004-57

T:\2018004\Plan Production\Major Streets\2018004 - WB Jackson Avenue.dwg Created: 27-Sep-17 - \_a2\_standard.bw.stb - Plot Date: 27-Feb-18



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REV.	DESCRIPTION	DATE	CHECKED
00	BID SET	2-27-18	DAD
			GSLCE
			DRAWN
			CHECKED

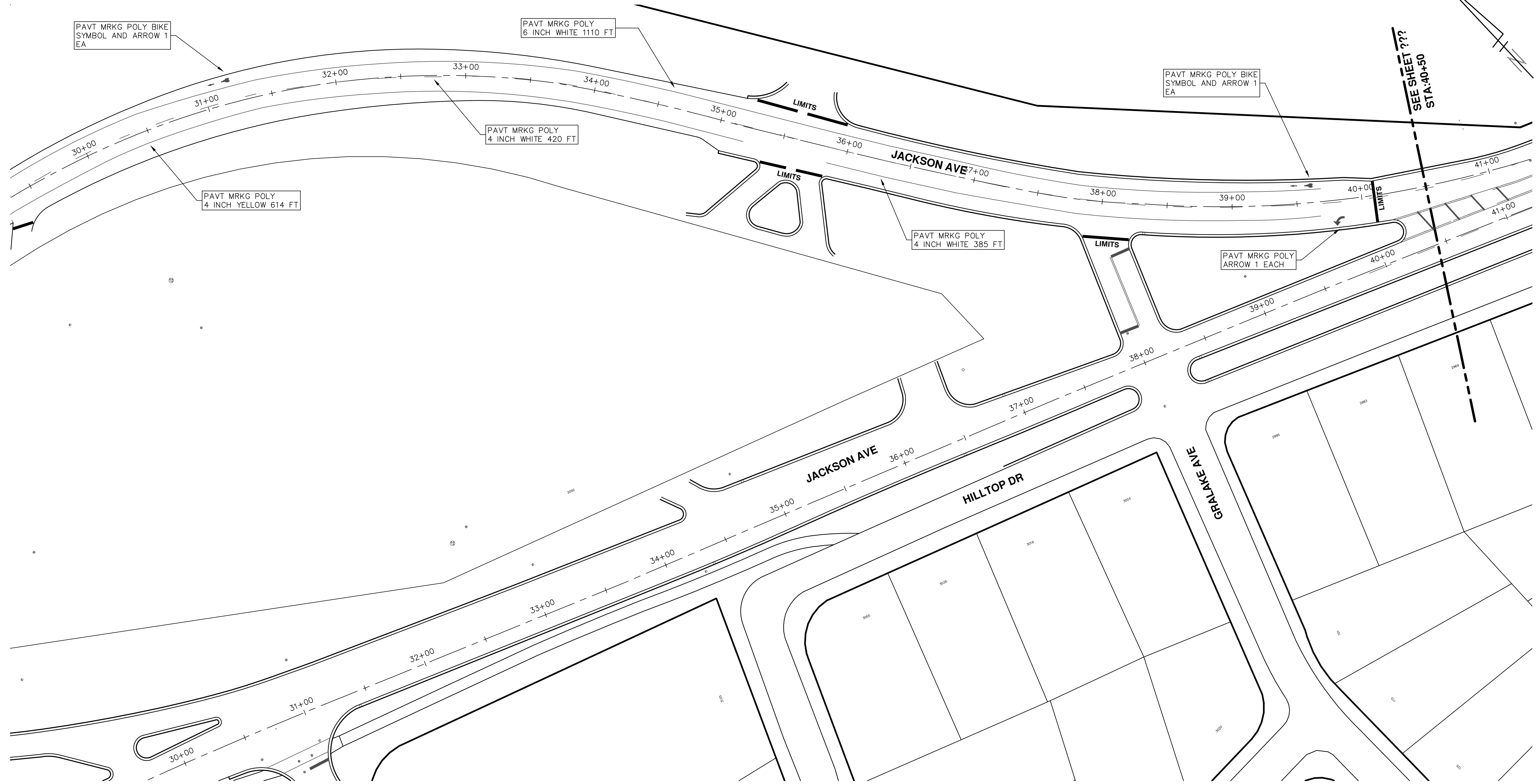
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**ANNUAL STREET RESURFACING - 2018**  
 JACKSON AVENUE  
 STA. 18+50 - STA. 29+50 PAVEMENT MARKINGS

SCALE PLAN: 1"=80'  
 DRAWING No. 2018004-58

SHEET No. 58 OF 72

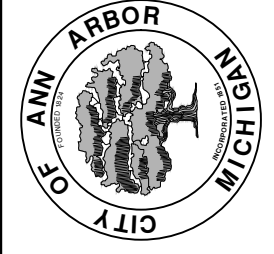
T:\2018004\Plan Production\Major Streets\2018004 - WB Jackson Avenue.dwg Created: 27-Sep-17 - \_a2\_standard\_bw.stb - Plot Date: 27-Feb-18



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00	BID SET	2-27-18	GSC/E	DAD

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**ANNUAL STREET RESURFACING - 2018**  
 JACKSON AVENUE  
 STA. 29+50 - STA. 40+50 PAVEMENT MARKINGS

SCALE PLAN: 1"=8'  
 DRAWING No. 2018004-59



# CITY OF ANN ARBOR ENGINEERING

## PROJECT LOCATION: STONE SCHOOL RD

ITB No. 4529 FILE No. 2018004

### 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.
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.

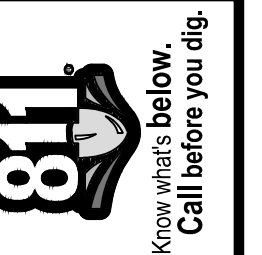
QUANTITIES			
ITEM #	DESCRIPTION	Units	Total
206	Remove HMA Pavement	S.Y.	28
207	Cold Milling Pavement	Tons	270
209	Subgrade Undercutting - Type II	C.Y.	160
220	HMA Patching	Tons	3
222	HMA Pavement Leveling, Regular	Tons	180
224	HMA Pavement Wearing, 36A	Tons	90
230	Rem. Curb & Gutter, Any Type	L.F.	490
232	Rem. Conc. Sidewalk & Drive - Any Thickness	S.F.	300
237	Conc. Curb & Gutter - Any Type - Fixed Form	L.F.	490
240	4" Sidewalk or Ramp	S.F.	0
241	6" Drive, Sidewalk or Ramp	S.F.	300
245	Detectable Warning, Cast in Place	S.F.	0
247	Integral Sidewalk Ret. Wall (6"-18")	S.F.	0
250	2' Dia. Structure	Each	0
254	Lower Structure Cover	Each	4
255	Lower Mon./Gate Valve Box	Each	0
256	Adjust Structure Cover	Each	4
257	Adjust Curb Inlet Structure Cover	Each	0
258	Adjust Mon. or Gate Valve Box	Each	0
259	Manhole Flange & Cover (MDOT Type A)	Each	3
261	Pt. Drain Structures	Each	2
264	12" Sewer, Trench Detail I, Modified	L.F.	0
268	Flowable Fill	C.Y.	14
271	21AA Limestone - C.I.P.	C.Y.	160
282	Plastic Drum - Lighted - Furn. & Operate	Each	18
283	Barricade Type III - Furn. & Operate	Each	2
284	Temp Signs Type - B	S.F.	101
285	No Parking Sign	Each	13
291	12" Thermo. White or Yellow	L.F.	0
594	4" White Thermo.	L.F.	0
595	4" Yellow Thermo.	L.F.	0
596	6" White Thermo.	L.F.	70
597	24" White Thermo.	L.F.	15
598	Pvmt. Marking Symbol	Each	0

TRAFFIC CONTROL & SIGN LEGEND		
QTY.	TYPE	DESCRIPTION
2	W20-1	"ROAD WORK AHEAD"
2	W20-3	"ROAD CLOSED AHEAD"
3	D3-1	CONVENTIONAL GUIDE
2	TYPE III	TYPE III LIGHTED BARRICADE
2	R11-4	Road Closed to Thru Traffic
0	TYPE II	TYPE II BARRICADE DRUM

CONSTRUCTION KEY	
KEY	ASSOCIATED PAY ITEM(S)
AA	• _Dr Structure, Adj, Case 1, Modified • _Dr Structure, Adj, Case 2, Modified • _Dr Structure, Temp Lowering, Modified
AB	• _Dr Structure, Temp Lowering, Modified • _Gate Box, Adj, Case 1 • _Gate Box, Adj, Case 2 • Monument Box Adjust
ADST	• _Dr Structure, Adj, Add Depth, Modified
AK	• _Dr Structure, Adj, Case 1, Modified
C4	• Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • _Grading, Sidewalk • Sidewalk, Conc, 4 inch, Modified
C4HE	• Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • _Grading, Sidewalk • Cement • Sidewalk, Conc, 4 inch, Modified
C6	• Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • _Grading, Sidewalk • _Grading, Sidewalk Ramp • Detectable Warning Surface, Modified • Sidewalk Ramp, Conc, 6 inch, Modified • Sidewalk, Conc, 6 inch, Modified
C8	• _Grading, Driveway Approach • Driveway, Nonreinf Conc, 8 inch, Modified
C HE	• Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • _Grading, Driveway Approach • _Grading, Sidewalk • _Grading, Sidewalk Ramp • Cement • Driveway, Nonreinf Conc, 6 inch, Modified • Driveway, Nonreinf Conc, 8 inch, Modified • Detectable Warning Surface, Modified • Sidewalk Ramp, Conc, 6 inch, Modified • Sidewalk, Conc, 6 inch, Modified
C/G	• _Curb, Gutter, and Curb and Gutter, Any Type, Rem • Curb and Gutter, Conc
C/GHE	• _Curb, Gutter, and Curb and Gutter, Any Type, Rem • Cement • Driveway Opening, Conc, Det M, Modified
CP	• _Grading, Sidewalk • Sidewalk, Conc, 4 inch, Modified
CR	• Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem
DS	• Dr Structure, Rem • Sewer, Rem, Less than 24 inch • Dr Structure, 24 inch dia
DSDI	• Dr Structure, Rem • Sewer, Rem, Less than 24 inch • Dr Structure, Double Inlet
PT	• Dr Structure, Point
RRA	• Dr Structure Cover, Type B • Dr Structure Cover, Type B, Special • Dr Structure, Adj, Case 1, Modified • Dr Structure, Temp Lowering, Modified
RRK	• Dr Structure Cover, Type K • Dr Structure, Adj, Case 1, Modified
RS	• Dr Structure, Reconstruct
TYPE II	• Plastic Drum, High Intensity, Lighted, Furn • Plastic Drum, High Intensity, Lighted, Oper
TYPE III	• Barricade, Type III, High Intensity, Double Sided, Lighted, Furn • Barricade, Type III, High Intensity, Double Sided, Lighted, Oper

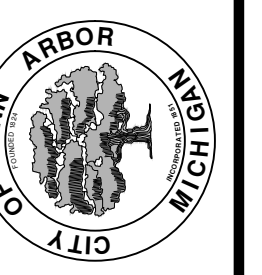


**ENGINEERING**  
CITY OF ANN ARBOR PUBLIC SERVICES  
301 EAST HURON STREET, P.O. BOX 8647  
ANN ARBOR, MICHIGAN 48107-8647  
734-794-6410 www.a2gov.org



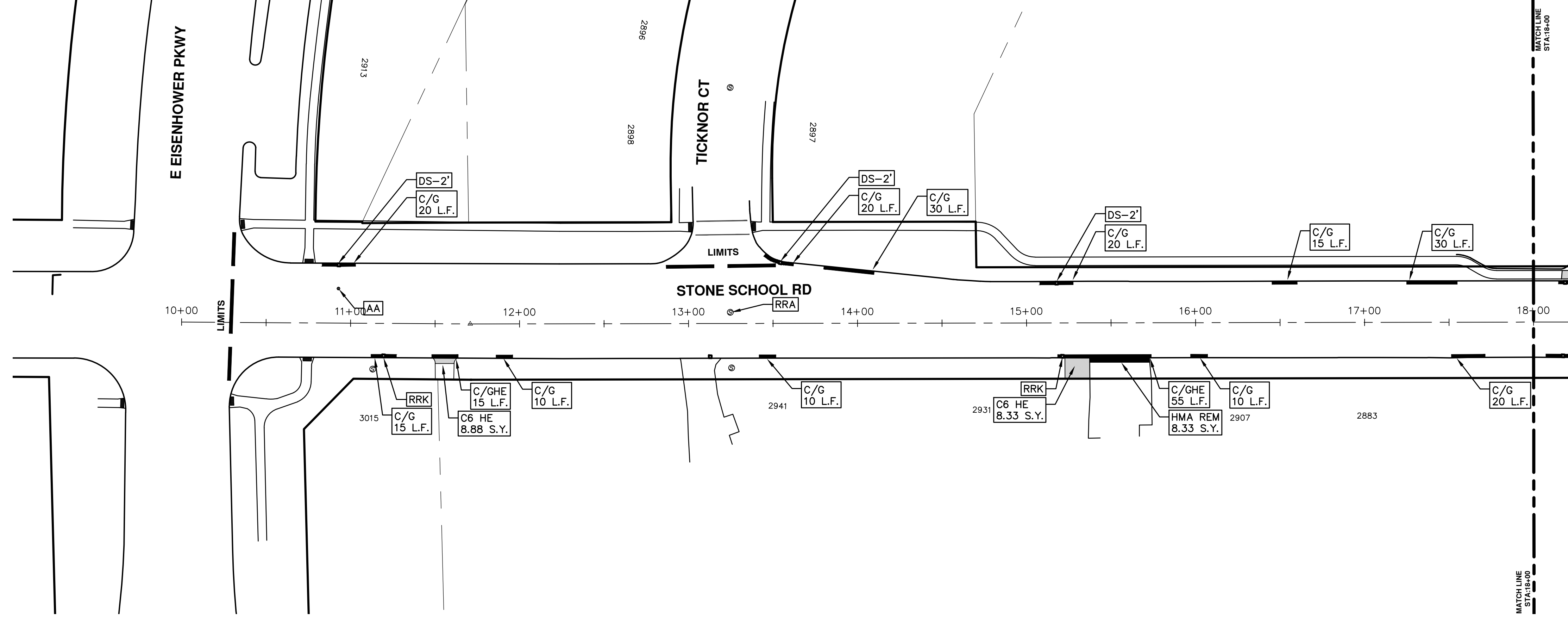
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		DRAWN
		CHECKED

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PUBLIC SERVICES  
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P.O. BOX 8647  
ANN ARBOR, MI 48107-8647  
www.a2gov.org

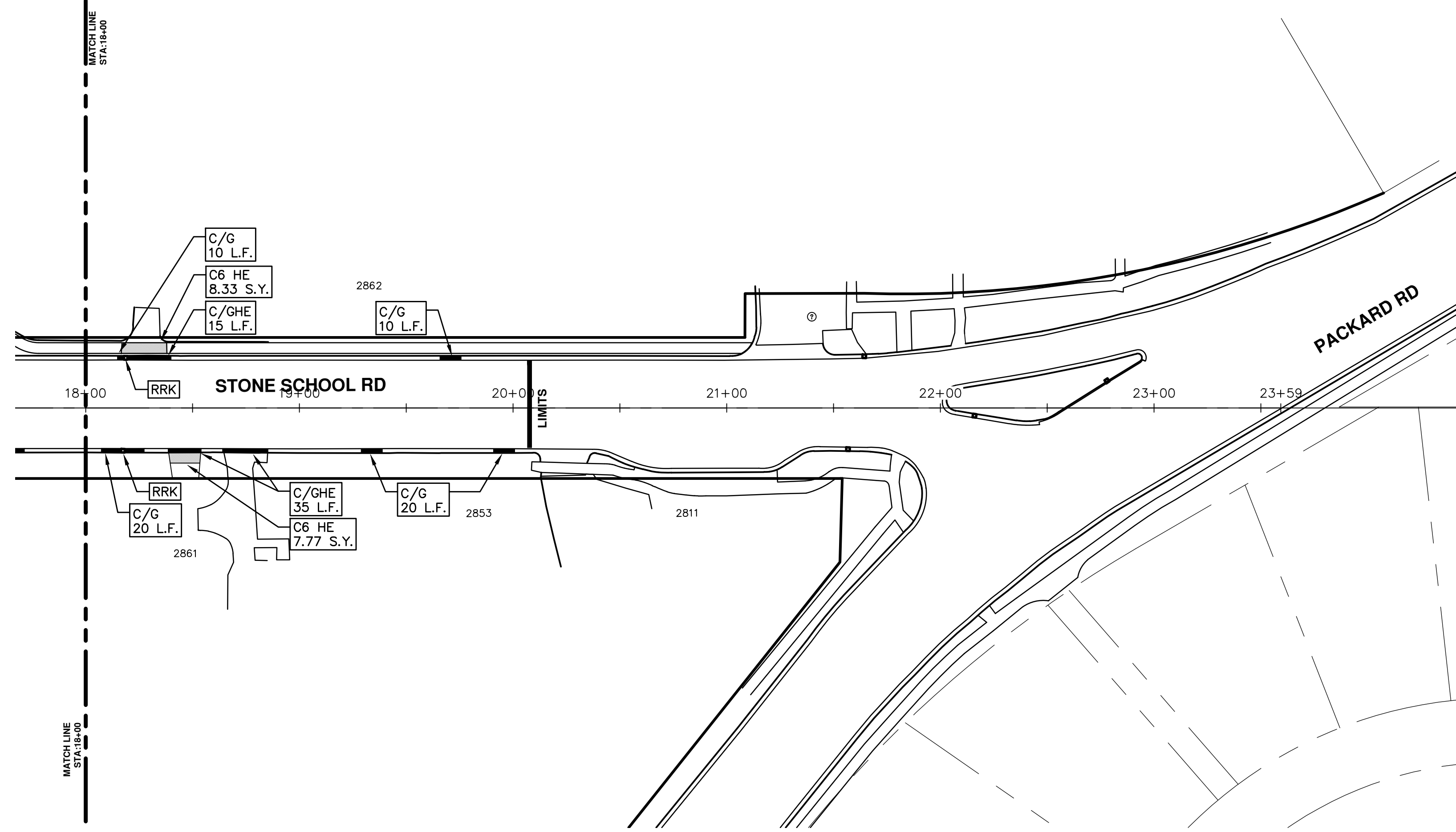


ENGINEERING - PUBLIC SERVICES - CITY OF ANN ARBOR  
ANNUAL STREET RESURFACING - 2018  
STONE SCHOOL RD

DRAWING No. 2018004-60  
SHEET No. 60 OF 72



REV.	DESCRIPTION	DATE	DRAWN	CHECKED
00	BID SET	2-27-18	GSLCE	DAD



REV.	DESCRIPTION	DATE	DRAWN	CHECKED
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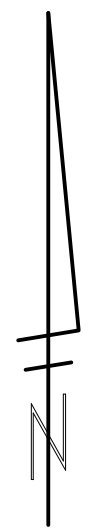
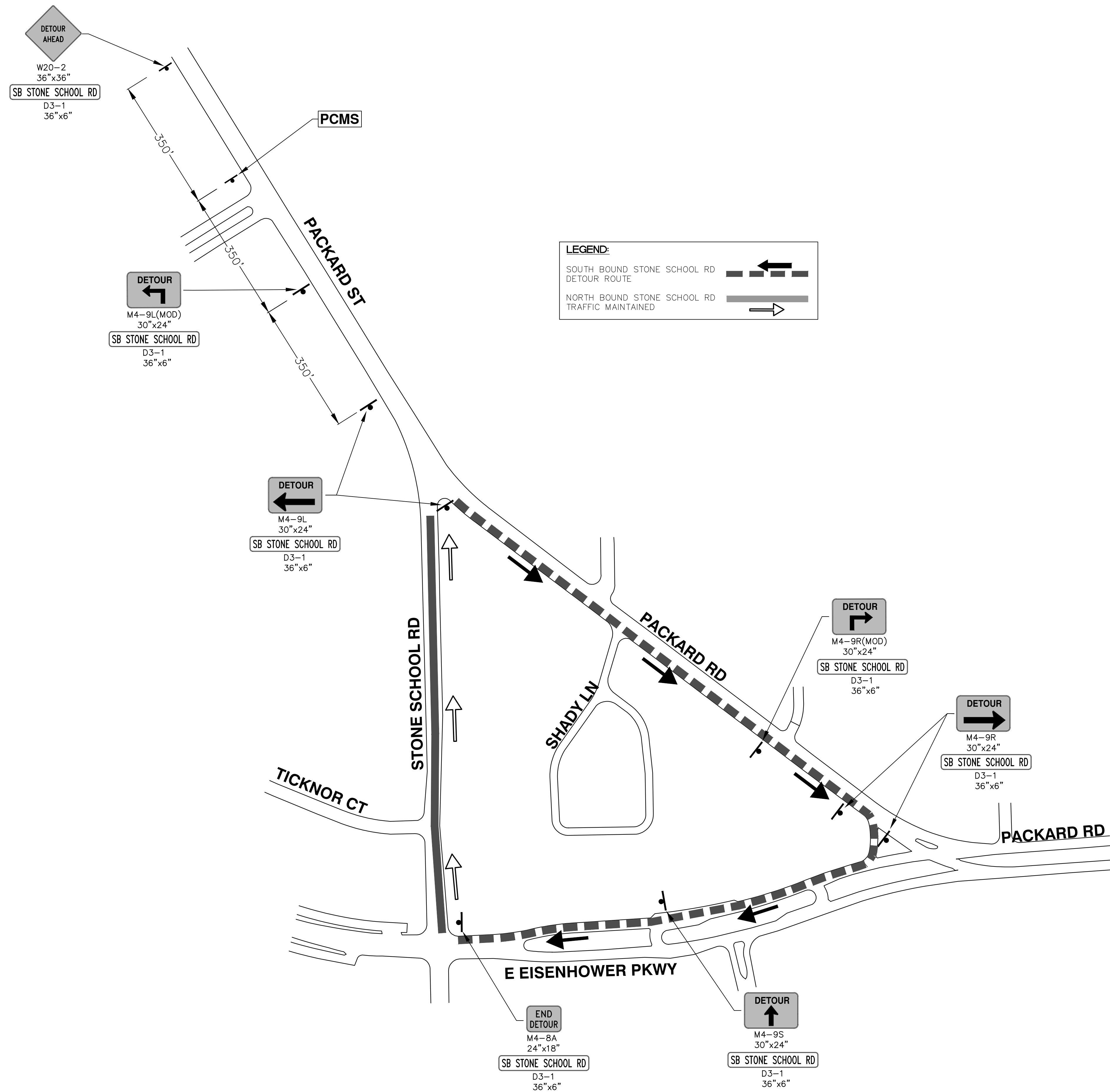
**DETOUR CONSTRUCTION NOTES:**

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

PCMS MESSAGE PHASING	
PRIOR TO CONSTRUCTION	DURING CONSTRUCTION
STONE SCHOOL ROAD CONSTRUCTION	SB STONE SCHOOL CLSD AT PACKARD
MONTH DATE *	FOLLOW POSTED DETOUR

NOTE: PCMS LOCATIONS AND MESSAGES WILL BE AS DIRECTED BY THE ENGINEER. TO BE PLACED ONE WEEK PRIOR TO CONSTRUCTION.

\*THE CONTRACTOR SHALL PLACE THE APPROPRIATE DATE AS APPROVED BY THE ENGINEER.



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

REV.	DATE	DESCRIPTION
00	2-27-18	BID SET
		DRAWN
		CHECKED

**CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING**  
**ANNUAL STREET RESURFACING - 2018**  
 STONE SCHOOL RD  
 DETOUR PLAN

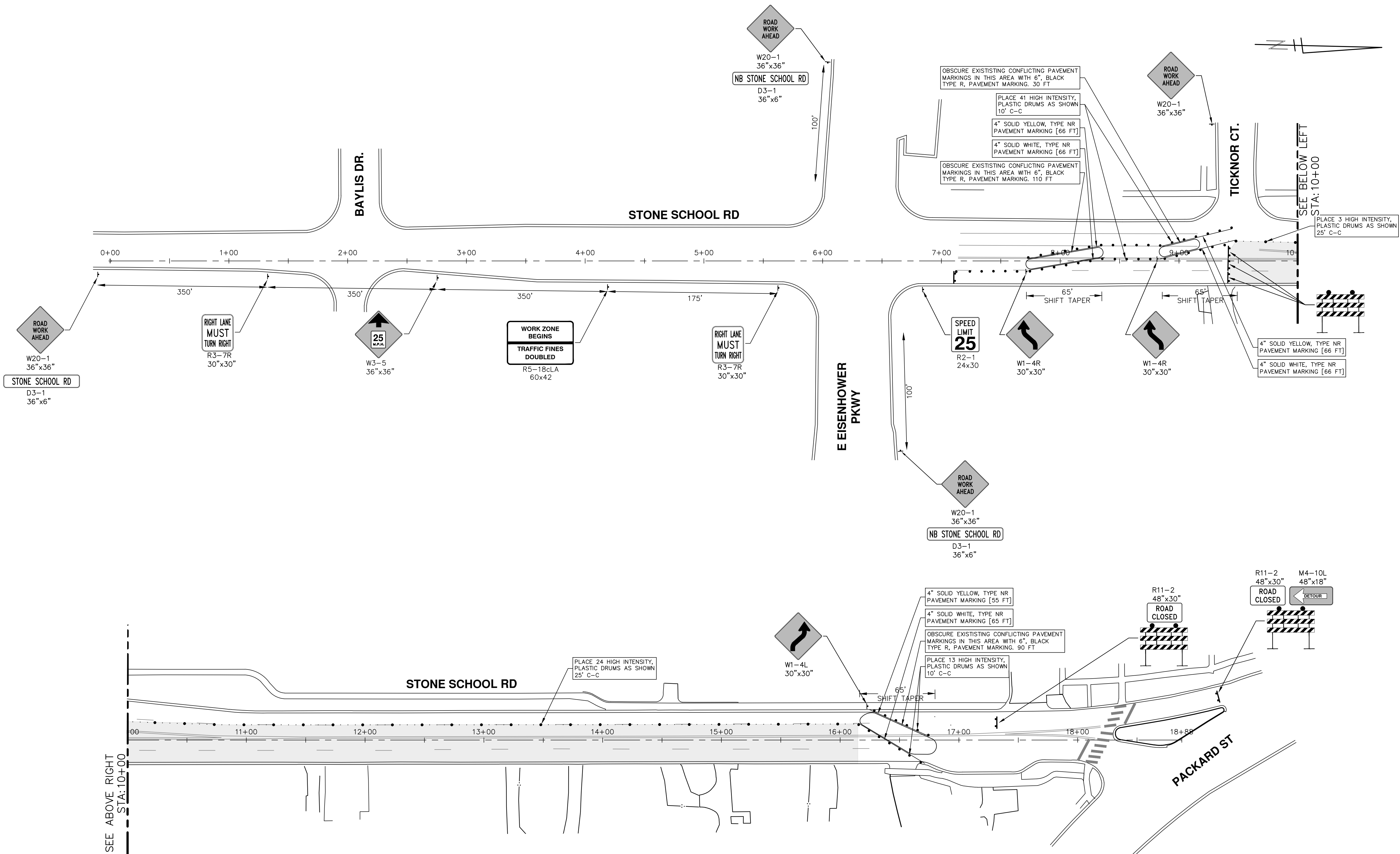
SHEET No. **63 OF 72**

SCALE: 1" = 150'

DRAWING No. **2018004-63**

**CITY OF ANN ARBOR**  
 PUBLIC SERVICES  
 301 EAST HURON STREET  
 ANN ARBOR, MI 48106-8647  
 ANN ARBOR: 734-794-4410  
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**CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING**  
**ANNUAL STREET RESURFACING - 2018**  
 STONE SCHOOL RD  
 TRAFFIC CONTROL

SCALE PLAN: 1" = 40'  
 DRAWING No. 2018004-64

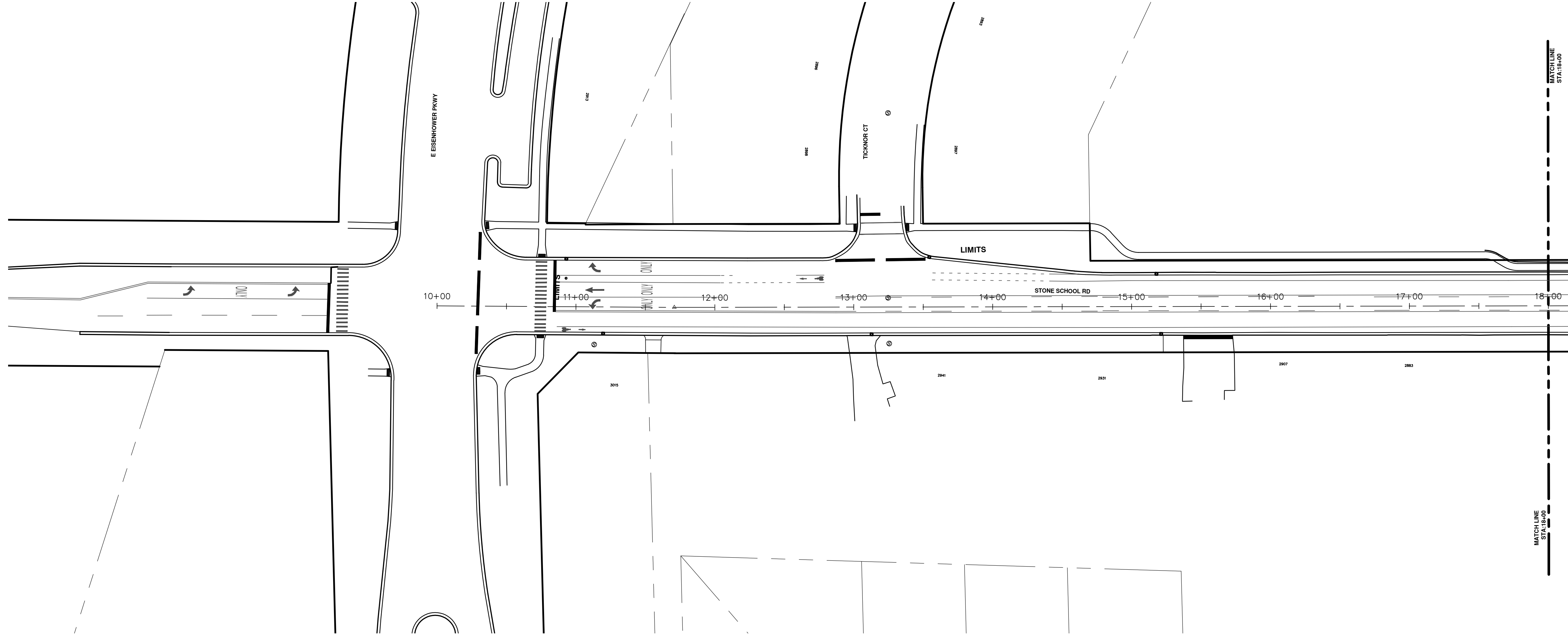
**811**  
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 PUBLIC SERVICES  
 301 EAST HURON STREET  
 ANN ARBOR, MI 48106-0667  
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REV.	DESCRIPTION	DATE	DRAWN	CHECKED
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SHEET No. **64 OF 72**

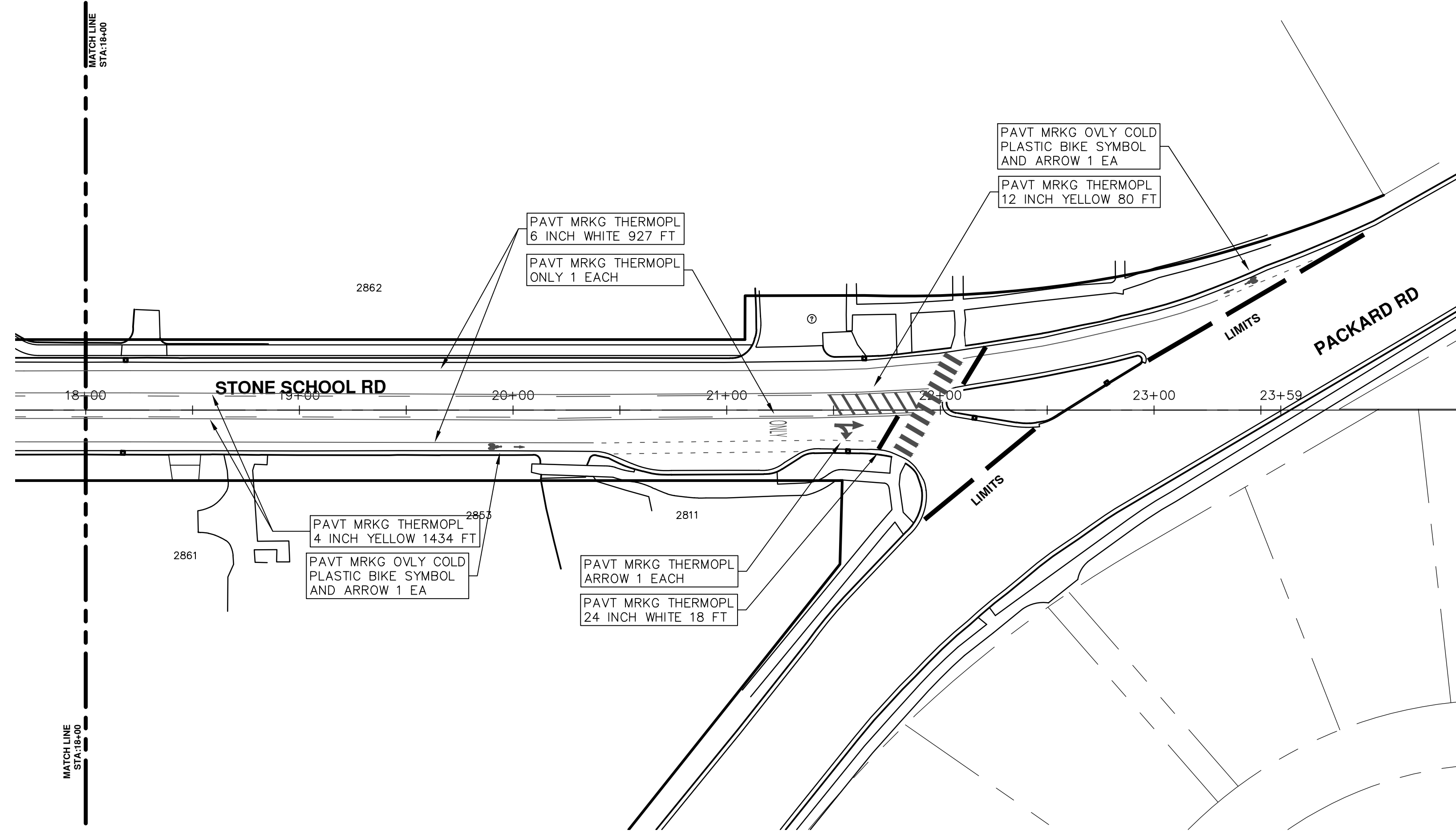




CITY OF ANN ARBOR  
 PUBLIC SERVICES  
 301 EAST HURON STREET  
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 ANN ARBOR 734/794-4410  
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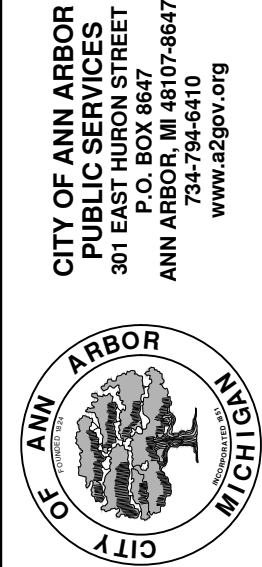
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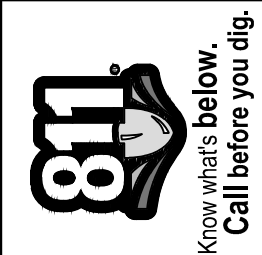
ENGINEERING - PUBLIC SERVICES - CITY OF ANN ARBOR  
 SCALE PLAN: 1"=40'  
 DRAWING No. 2018004-66

ANNUAL STREET RESURFACING - 2018  
 STONE SCHOOL RD  
 STA. 18+00 - STA. 23+59 PIMARK



CITY OF ANN ARBOR  
 PUBLIC SERVICES  
 301 EAST HURON STREET  
 ANN ARBOR, MI 48106-3667  
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REV.	DESCRIPTION	DATE	DRAWN	CHECKED
00	BID SET	2-27-18	GSLCE	DAD





# CITY OF ANN ARBOR ENGINEERING

## PROJECT LOCATION: STATE ST

ITB No. 4529 FILE No. 2018004

### CONSTRUCTION METHOD AND SEQUENCING

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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.
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### NOTES

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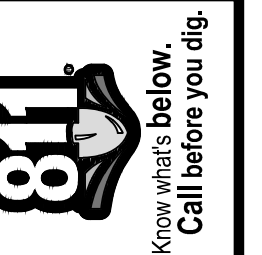
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241	6" Drive, Sidewalk or Ramp	S.F.	300
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256	Adjust Structure Cover	Each	4
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594	4" White Thermo.	L.F.	0
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C4HE	• _Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • _Grading, Sidewalk • Cement • _Sidewalk, Conc, 4 inch, Modified
C6	• _Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • _Grading, Sidewalk • _Grading, Sidewalk Ramp • _Detectable Warning Surface, Modified • _Sidewalk Ramp, Conc, 6 inch, Modified • _Sidewalk, Conc, 6 inch, Modified
C8	• _Grading, Driveway Approach • _Driveway, Nonreinf Conc, 8 inch, Modified
CHE	• _Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem • _Grading, Driveway Approach • _Grading, Sidewalk • _Grading, Sidewalk Ramp • Cement • _Driveway, Nonreinf Conc, 6 inch, Modified • _Driveway, Nonreinf Conc, 8 inch, Modified • _Detectable Warning Surface, Modified • _Sidewalk Ramp, Conc, 6 inch, Modified • _Sidewalk, Conc, 6 inch, Modified
C/G	• _Curb, Gutter, and Curb and Gutter, Any Type, Rem • _Curb and Gutter, Conc
C/GHE	• _Curb, Gutter, and Curb and Gutter, Any Type, Rem • Cement • _Driveway Opening, Conc, Det M, Modified
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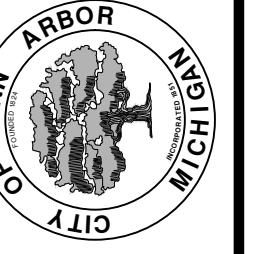


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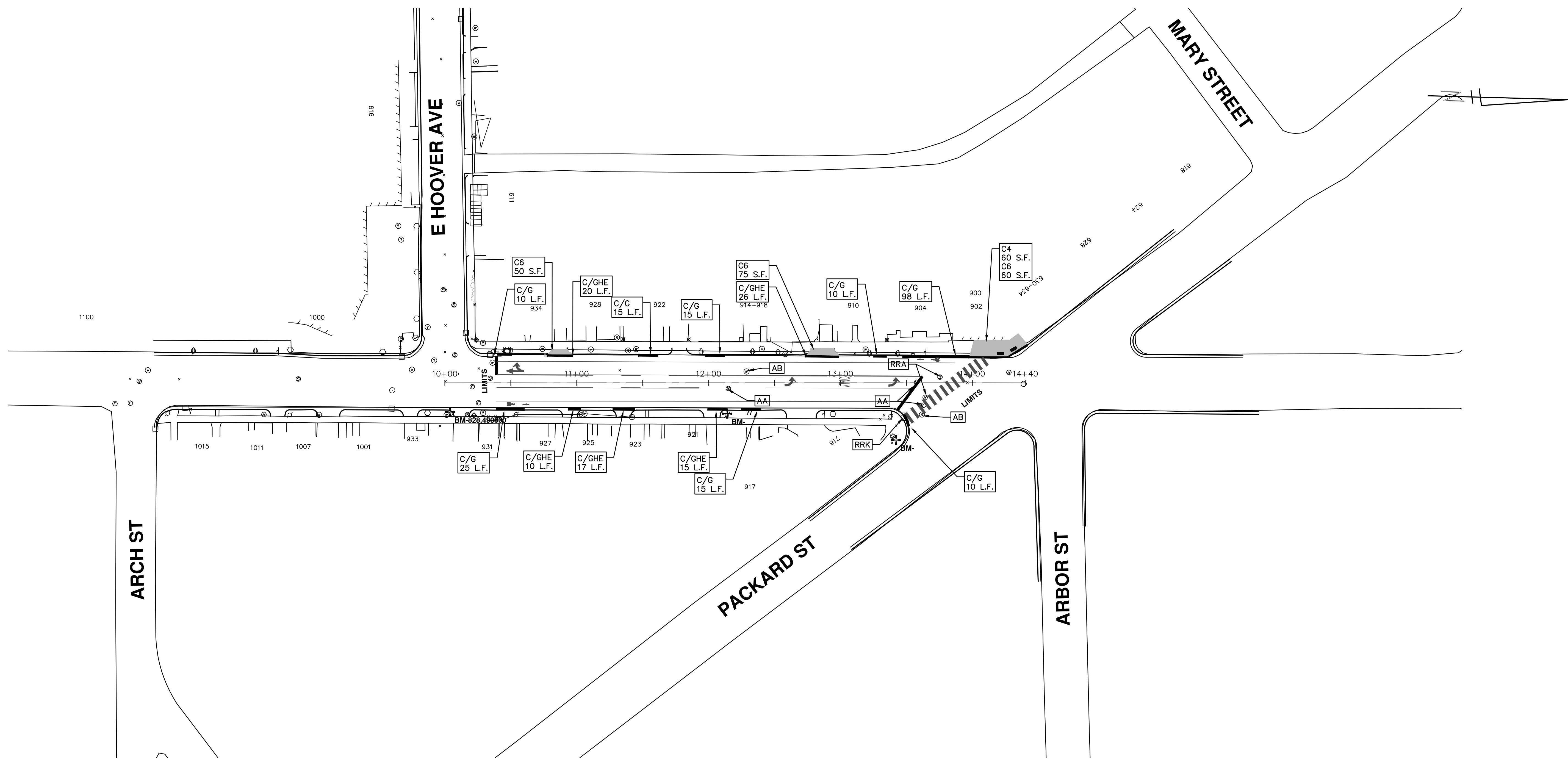
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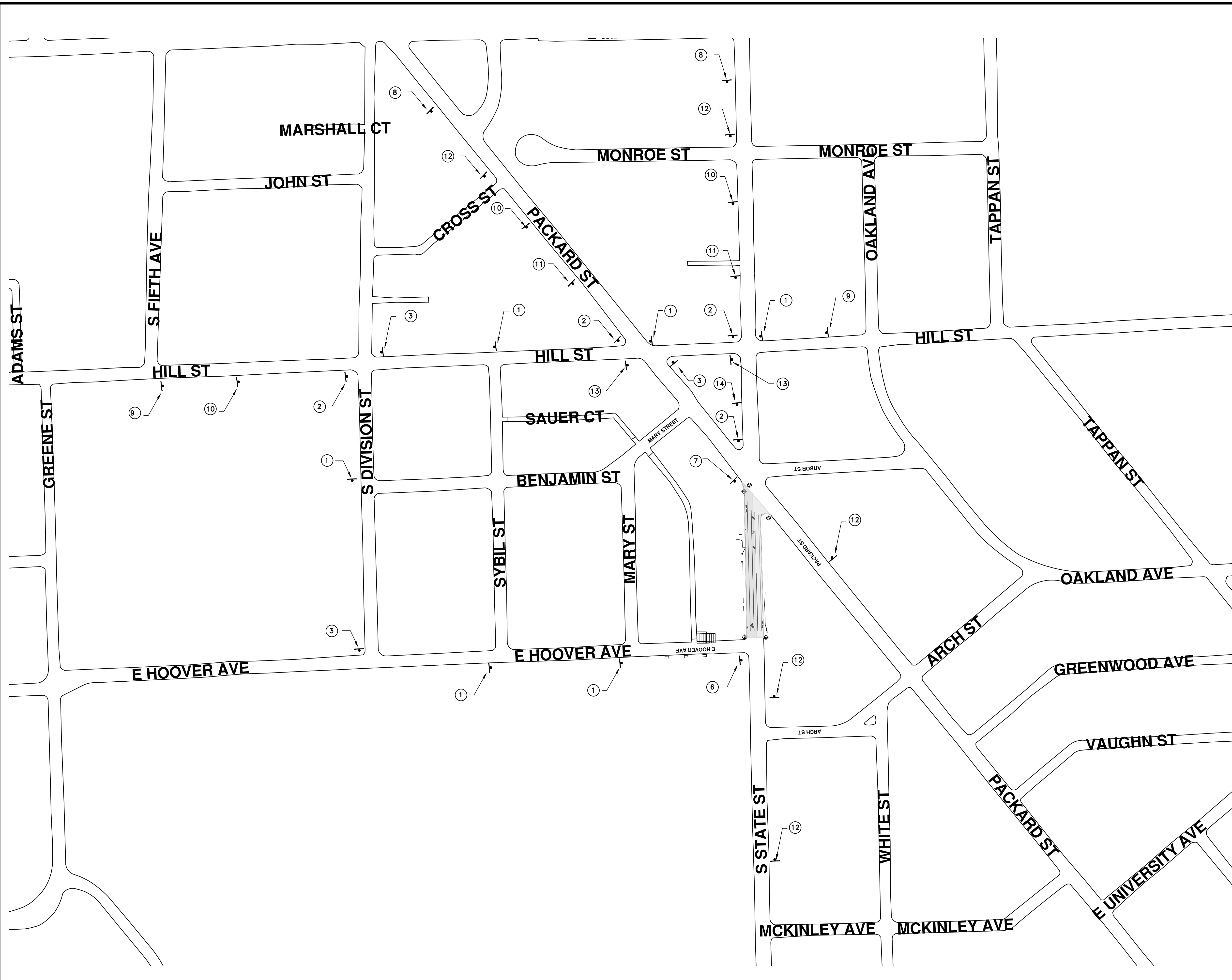
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SHEET No. 67 OF 72



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TRAFFIC CONTROL SIGN		
TAG	SIGN	NUM.
①		D3-1 48"x12" M4-9S 30x24
②		D3-1 48"x12" M4-9R 30x24
③		D3-1 48"x12" M4-9L 30x24
⑥		D3-1 48"x12" M4-8a 24x18
⑦		R3-1 24"x24"
⑧		SPECIAL 48x60
⑨		SPECIAL 48x60
⑩		W20-3 36"x36"
⑪		D3-1 48"x12"
		W20-3 36"x36"
⑫		D3-1 48"x12"
		W20-3 36"x36"
⑬		D3-1 48"x12"
		R10-6L 24"x36"
⑭		R3-7R 30"x30"

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SCALE: \_\_\_\_\_  
DRAWING No. 2018004-69  
SHEET No. 69 OF 72

STATE ST


DESCRIPTION

REV. 00 BID SET 2-27-18 DATE 2-27-18 DATE

DAD DRAWN CHECKED  
GSCCE DRAWN CHECKED

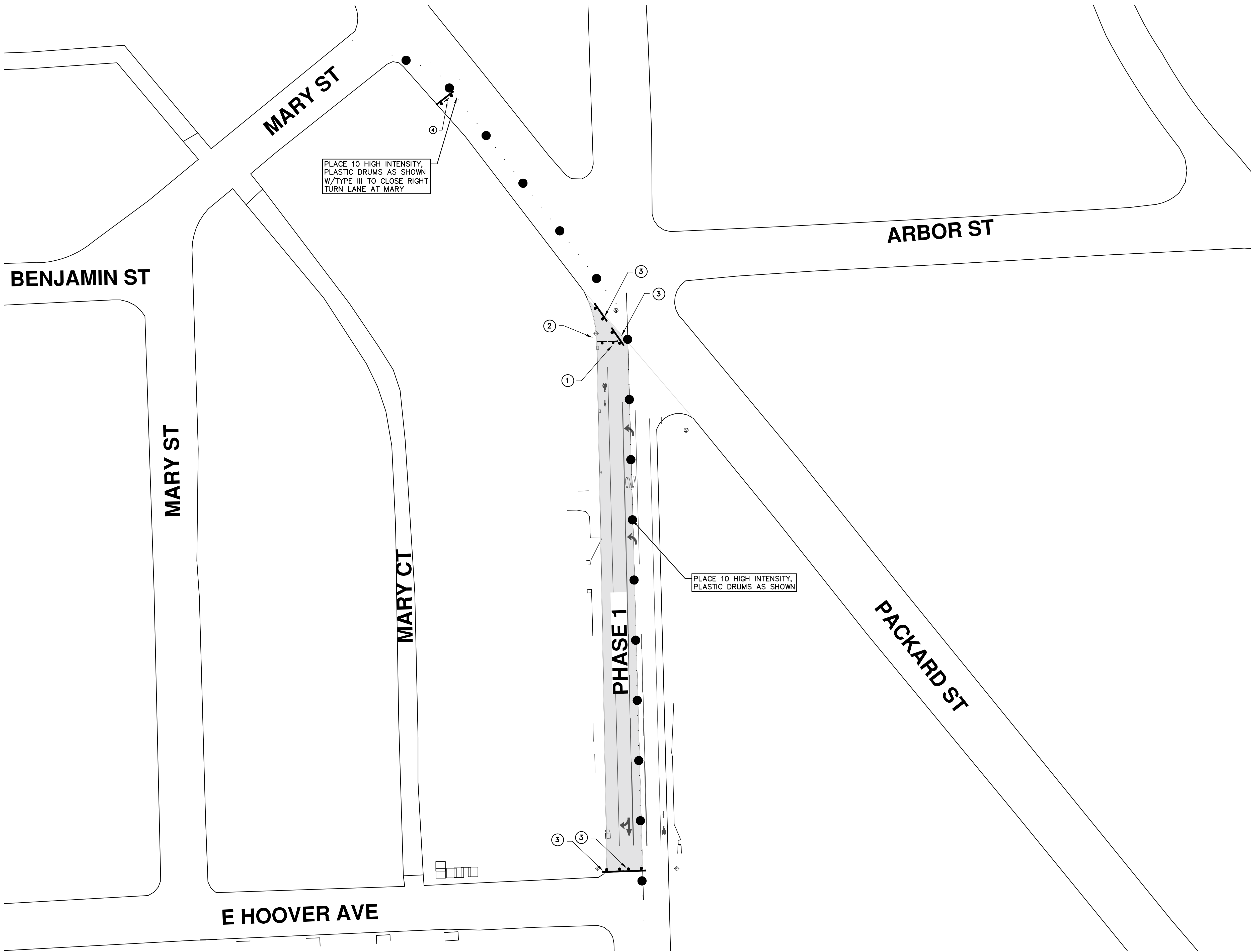


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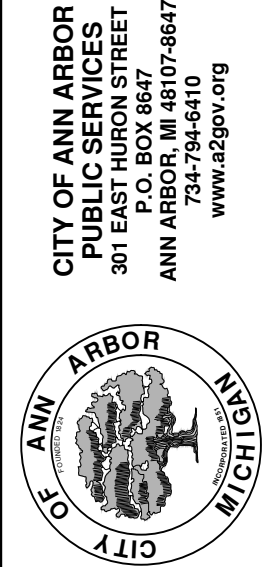
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TRAFFIC CONTROL SIGN		
	SIGN	NUMBER
①		R11-2 60x30
②		M4-10R 48"x18"
③		TYPE-III BARRICADE
④		W1-6 48"x24"

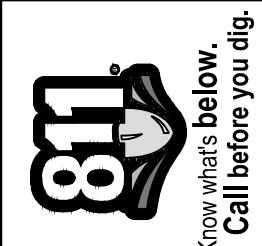
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 DRAWING No. 2018004-70

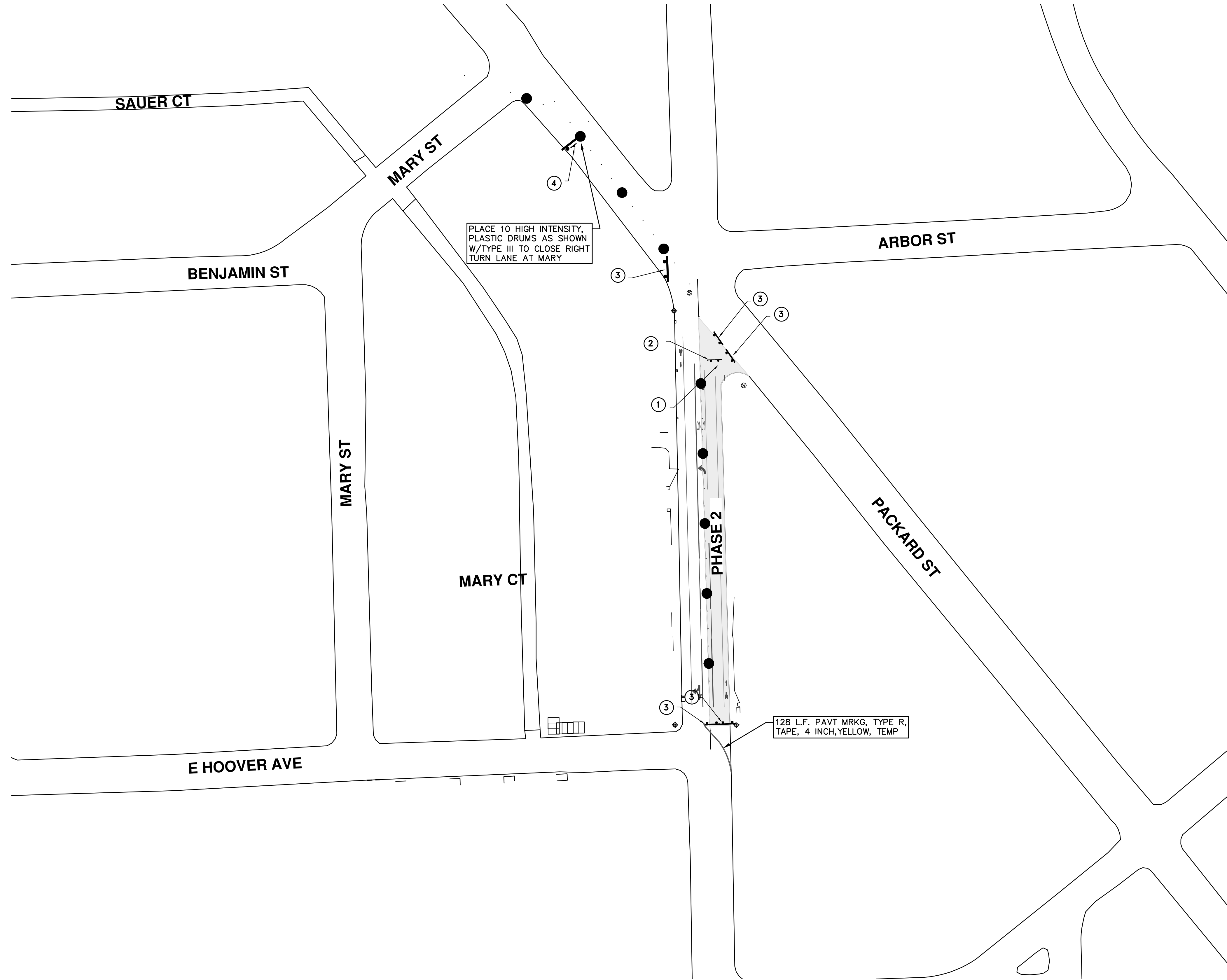
ANNUAL STREET RESURFACING - 2018  
 S. STATE STREET  
 PHASE 1



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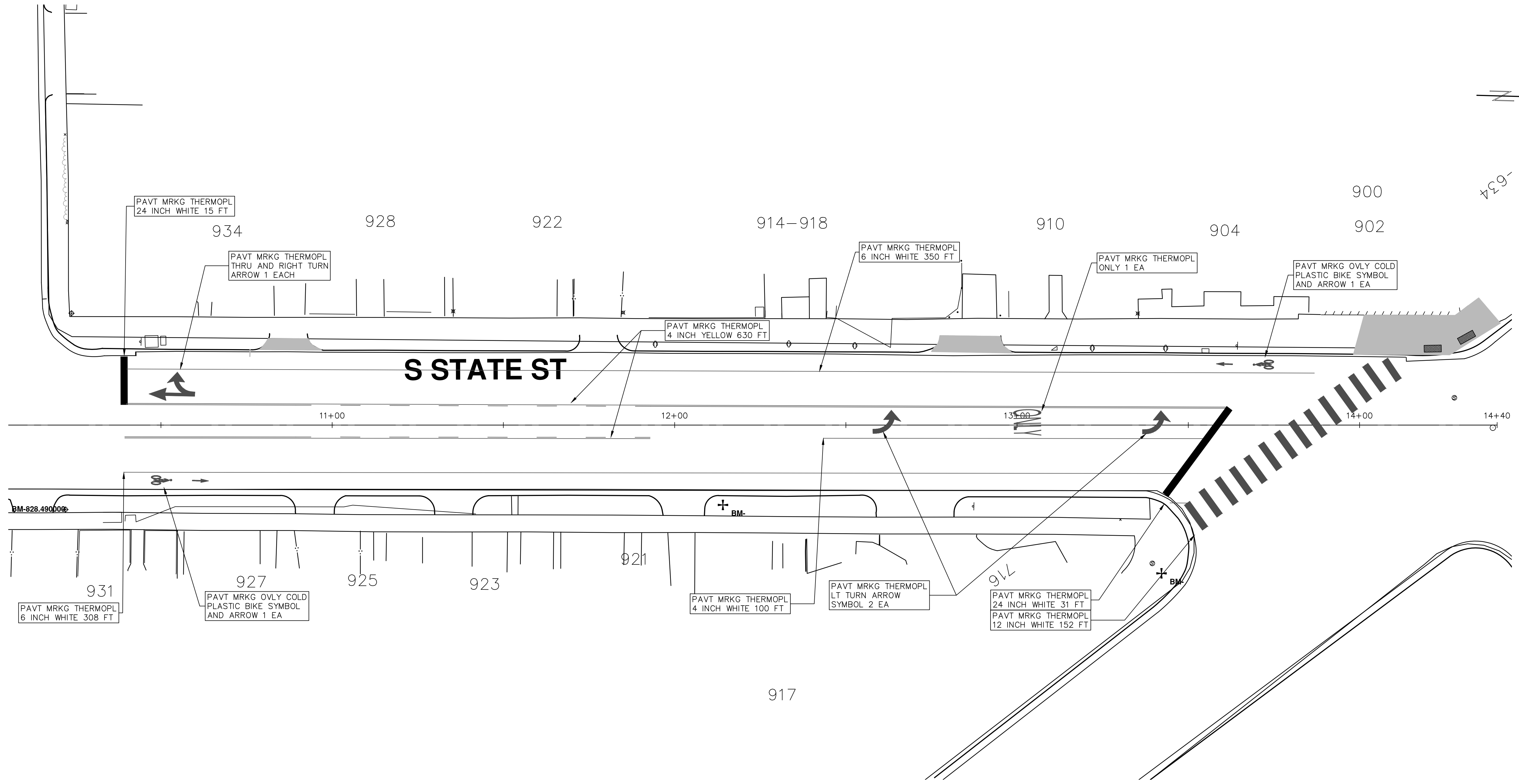
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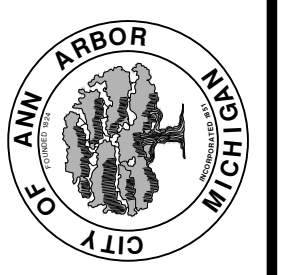
TRAFFIC CONTROL SIGN		
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REV.	DESCRIPTION	DATE	DRAWN	CHECKED
00	BID SET	2-27-18	GSLCE	DAD

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STATE ST  
STA. 10+00 - STA. 14+40 PAVT MARKS

SCALE PLAN: Custom  
DRAWING No. 2018004-72