



# CITY OF ANN ARBOR PROJECT MANAGEMENT

## 2016 ANNUAL RESURFACING

ITB No. 4422 FILE No. 2016004

**NOTES:**

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

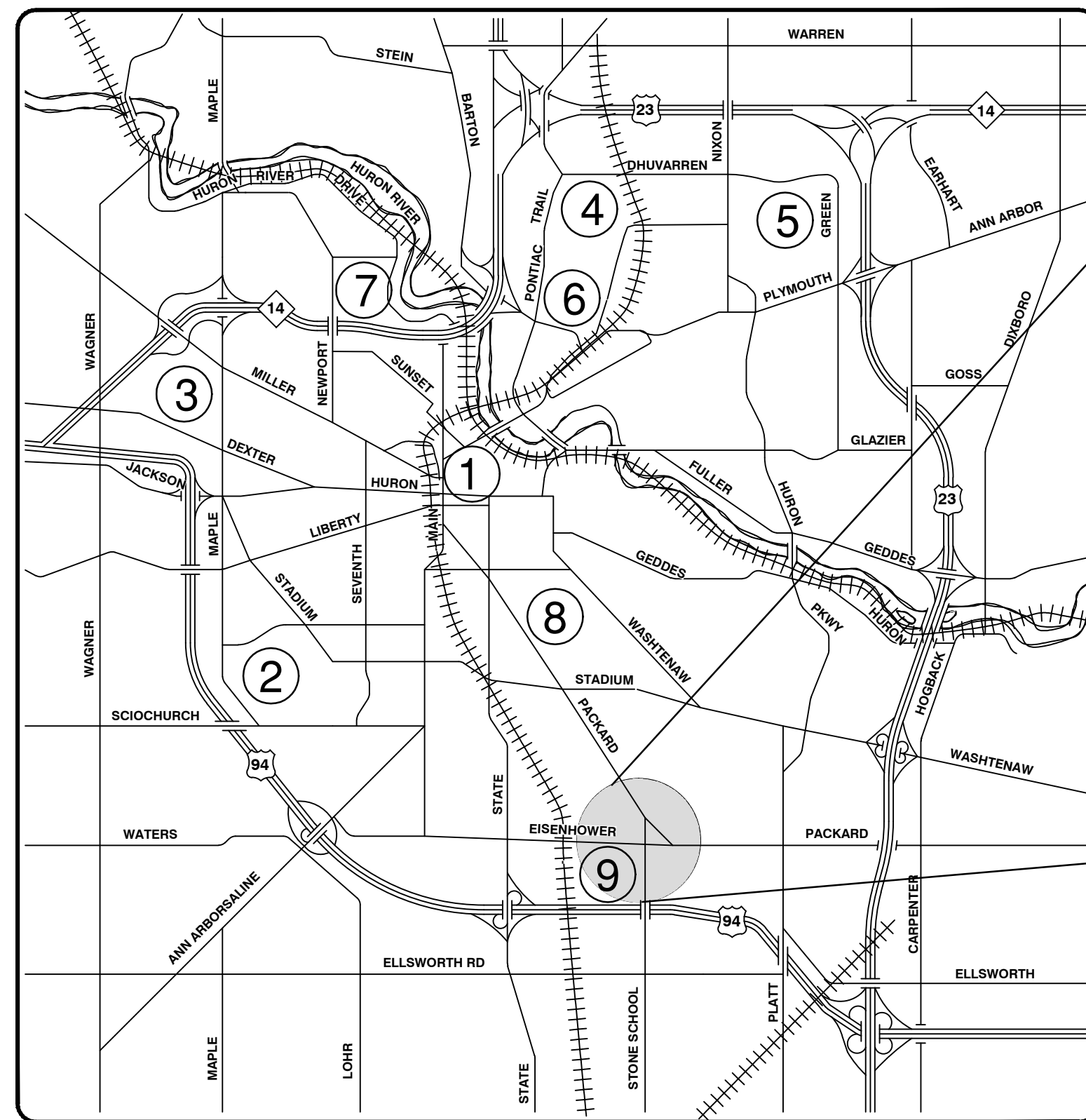
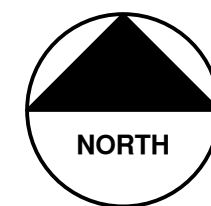
THE UNDERGROUND LOCATIONS SHOWN FOR NATURAL GAS, TELEPHONE, ELECTRICAL POWER, CABLE TV AND FIBER OPTIC LINES ARE APPROXIMATE. THE CITY OF ANN ARBOR ASSUMES NO RESPONSIBILITY FOR THEIR ACCURATE REPRESENTATION IN THIS DRAWING. MISS DIG MUST BE CONTACTED PRIOR TO CONSTRUCTION TO LOCATE THESE UTILITIES.

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

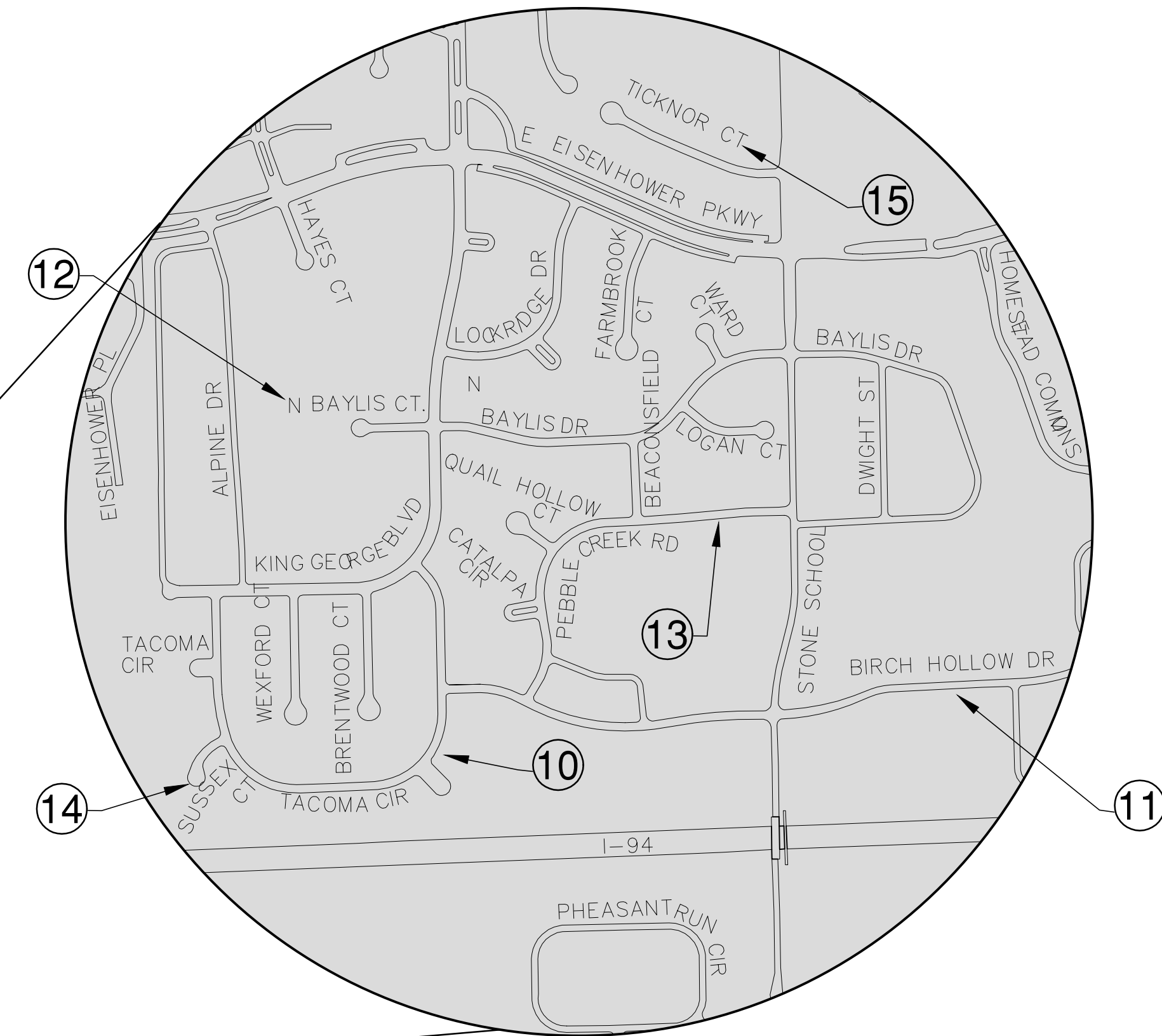


**SHEET INDEX**

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1	COVER SHEET	
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83-85	Tacoma Cir.	10
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89-90	N. Baylis Ct. and N. Baylis Dr.	12
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95-96	Beaconsfield Dr., Ticknor Ct. and Page Ave.	15
97	Traffic Calming Details	



VICINITY MAP



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	<b>PROJECT MANAGEMENT SERVICE UNIT</b>	
	PREPARED UNDER THE SUPERVISION OF	
	 DAVID ARTHUR DYKMAN P.E. - MI LICENSE No. 52912 PROJECT MANAGER	
	DATE 2/11/2016	

PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR	PROJECT DESCRIPTION MAJOR AND LOCAL STREET RESURFACING
	SHEET No. 1 OF 97

2016 ANNUAL RESURFACING - ITB No. 4422 - 2016004



# CITY OF ANN ARBOR PROJECT MANAGEMENT 2016 ANNUAL RESURFACING PROJECT LOCATION: DEPOT STREET

ITB No. 4422 FILE No. 2016004



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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	DESCRIPTION
C/G	REMOVE AND REPLACE CURB AND GUTTER
C/GHE	REMOVE CURB AND GUTTER, REPLACE WITH CONCRETE CURB AND GUTTER H.E.
C4HE	REMOVE EXISTING RAMP OR SIDEWALK. REPLACE WITH 4" SIDEWALK OR TYPE 1 SIDEWALK RAMP,H.E.
CR	REMOVE SIDEWALK, DRIVE OR RAMP.
AA	ADJUST MDOT TYPE A CASTINGS.
AB	ADJUST GATE VALVE BOX OR MONUMENT BOX.
ADST	ADDITIONAL DEPTH STRUCTURE REPAIR.
RRA	REMOVE AND REPLACE MDOT TYPE A CASTING ADJUST TO FINISH GRADE.
CPRHE	CONCRETE PAVEMENT REPAIR, H.E.
DS	CONSTRUCT 2, 3 OR 4' DIAM. DRAINAGE STRUCTURE.
PT	POINT STRUCTURE.
C4	REMOVE EXISTING RAMP OR SIDEWALK, REPLACE WITH 4" SIDEWALK OR RAMP.
C6	REMOVE EXISTING RAMP OR SIDEWALK, REPLACE WITH 6" SIDEWALK OR RAMP.
C8	PLACE 8" SIDEWALK OR RAMP ONLY
C HE	REMOVE EXISTING DRIVE APPROACH, RAMP OR SIDEWALK. REPLACE WITH 6" OR 8" APPROACH, RAMP,OR SIDEWALK, H.E.
CP	PLACE 4" SIDEWALK OR RAMP.
AK	ADJUST MDOT TYPE K CASTING.
TYPE II	MDOT TYPE II BARRICADE.
TYPE III	MDOT TYPE III BARRICADE.
RRK	REMOVE AND REPLACE MDOT TYPE K CASTING. ADJUST TO FINISH GRADE.
RS	RECONSTRUCT STRUCTURE.
RCP	REMOVE CONC. PAVEMENT - ANY THICKNESS
RCW	RAISED CROSSWALK

LEGEND	
SYMBOL	DESCRIPTION
⊙	EXISTING SANITARY SEWER MANHOLE
⊙	EXISTING STORM SEWER MANHOLE
⊗	EXISTING WATER MAIN VALVE IN WELL
+	WATER MAIN GATE VALVE IN BOX
⊕	FIRE HYDRANT
⊙	MICHCON GAS CO. VALVE BOX/WELL
⊙	AMERITECH TELEPHONE VAULT
⊙	ELECTRIC MANHOLE
⊕	SOIL BORING
□	EXISTING STORM SEWER INLET
⊠	MONUMENT BOX
▨	REMOVE AND REPLACE CONC. SIDEWALK
▨	PLACE CONCRETE SIDEWALK
—	REMOVE & REPLACE CONC. CURB & GUTTER
- - -	CONSTRUCTION LIMITS
- · - · -	6" WRAPPED UNDERDRAIN
▨	REMOVE CONCRETE SIDEWALK
▨	SUBGRADE UNDERCUT

### 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 3.5 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 1.5 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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**PROJECT MANAGEMENT SERVICES UNIT**  
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

PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR

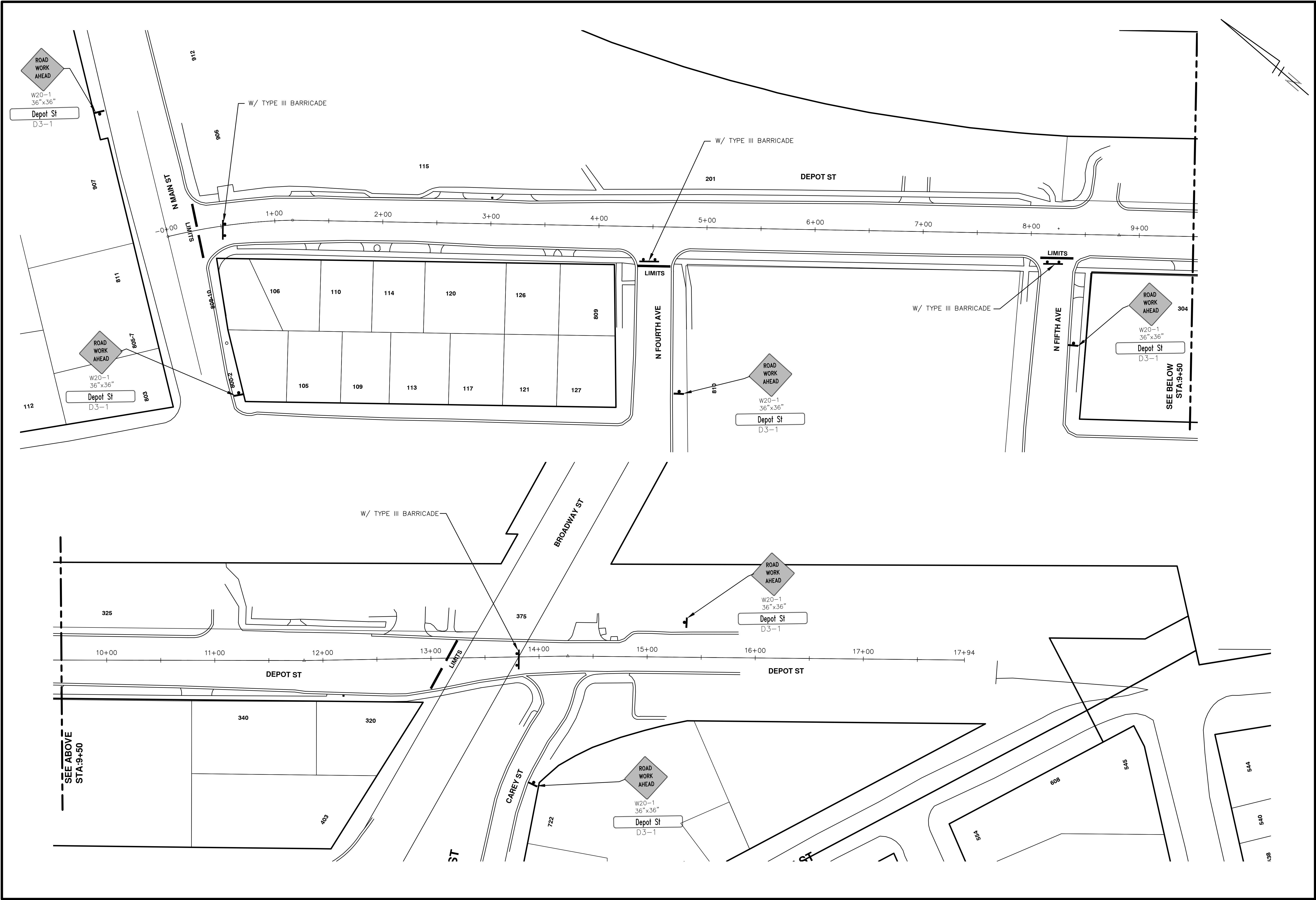
2016 ANNUAL RESURFACING

DEPOT STREET

DRAWING No. 2016004-2

SHEET No. 2 OF 97

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**PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR**  
 2016 ANNUAL RESURFACING  
 DEPOT STREET  
 TRAFFIC CONTROL

SCALE PLAN: 1" = 40'  
 DRAWING No. 2016004-3  
 SHEET No. 3 OF 97

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

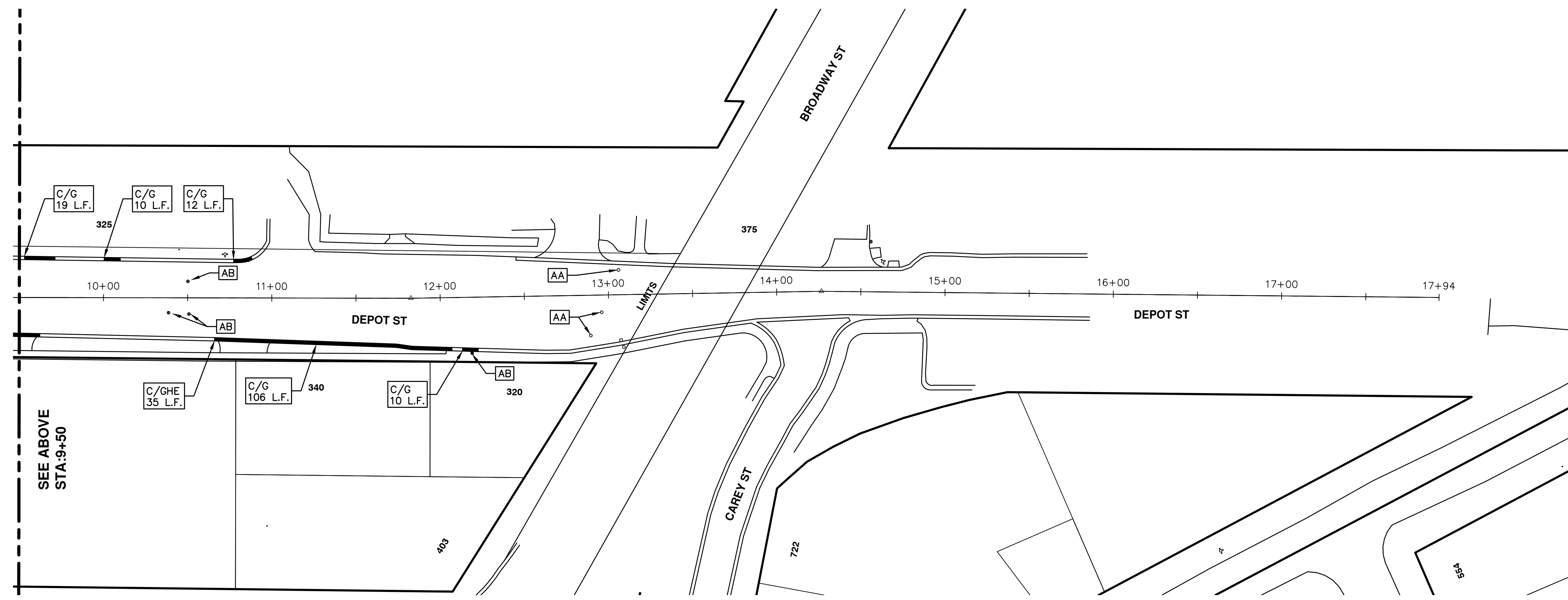
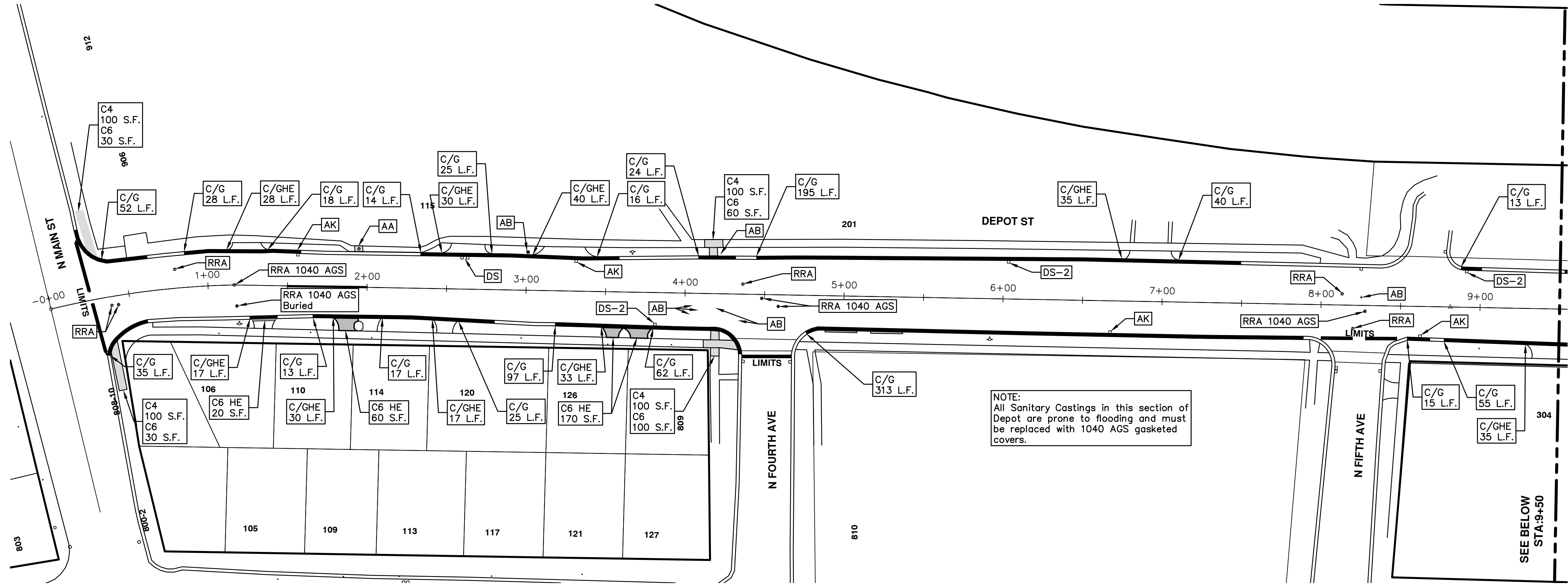
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00	2-22-2016	SS AH JK	DAD

DESCRIPTION

CITY OF ANN ARBOR  
 PUBLIC SERVICES  
 301 EAST HURON STREET  
 P.O. BOX 86400  
 ANN ARBOR MI 48108-8647  
 www.a2gov.org

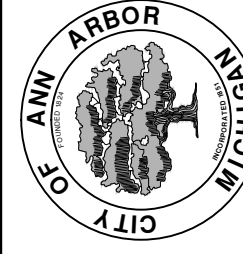
CITY OF ANN ARBOR MICHIGAN

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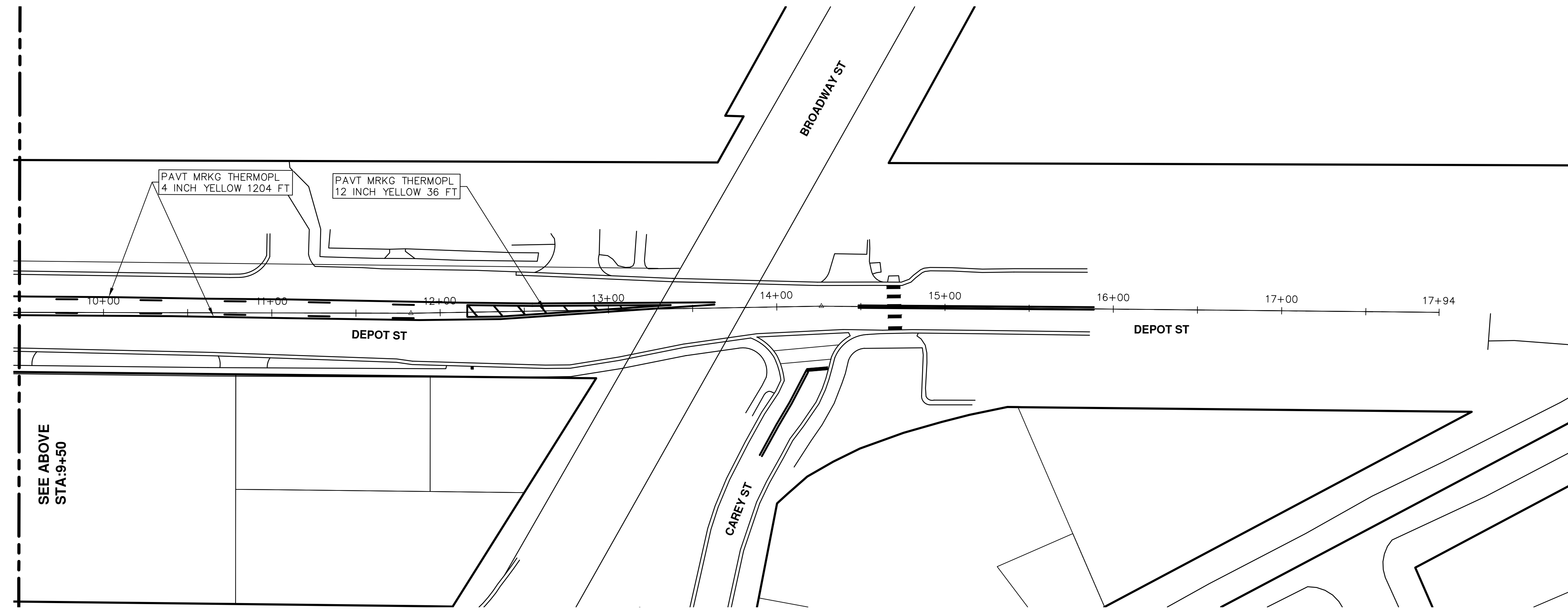
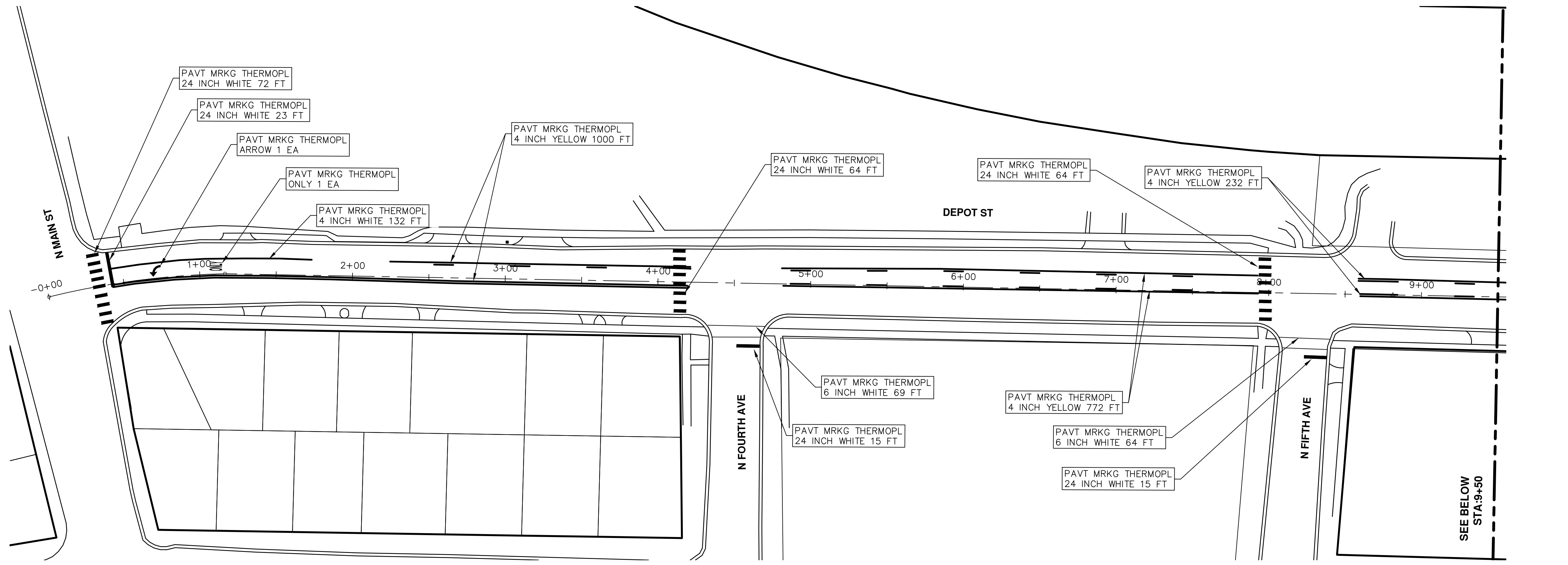
CITY OF ANN ARBOR  
PUBLIC SERVICES  
301 EAST HURON STREET  
ANN ARBOR MI 48106-8647  
www.a2gov.org



**PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR**  
**2016 ANNUAL RESURFACING**  
DEPOT STREET  
RESURFACING

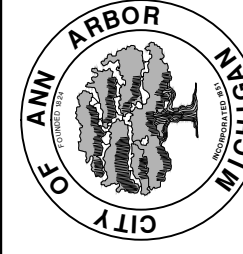
SCALE PLAN: 1" = 40'  
DRAWING No. 2016004-4

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REV.	DESCRIPTION	DATE	DRAWN	CHECKED
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PUBLIC SERVICES  
301 EAST HURON STREET  
ANN ARBOR MI 48106-8647  
www.a2gov.org



**PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR**  
**2016 ANNUAL RESURFACING**  
DEPOT STREET  
PAVEMENT MARKINGS

SCALE PLAN: 1" = 40'  
DRAWING No. 2016004-5



# CITY OF ANN ARBOR PROJECT MANAGEMENT 2016 ANNUAL RESURFACING PROJECT LOCATION: PAULINE BLVD

ITB No. 4422 FILE No. 2016004



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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	DESCRIPTION
C/G	REMOVE AND REPLACE CURB AND GUTTER
C/GHE	REMOVE CURB AND GUTTER, REPLACE WITH CONCRETE CURB AND GUTTER H.E.
C4HE	REMOVE EXISTING RAMP OR SIDEWALK. REPLACE WITH 4" SIDEWALK OR TYPE 1 SIDEWALK RAMP,H.E.
CR	REMOVE SIDEWALK, DRIVE OR RAMP.
AA	ADJUST MDOT TYPE A CASTINGS.
AB	ADJUST GATE VALVE BOX OR MONUMENT BOX.
ADST	ADDITIONAL DEPTH STRUCTURE REPAIR.
RRA	REMOVE AND REPLACE MDOT TYPE A CASTING ADJUST TO FINISH GRADE.
CPRHE	CONCRETE PAVEMENT REPAIR, H.E.
DS	CONSTRUCT 2, 3 OR 4' DIAM. DRAINAGE STRUCTURE.
PT	POINT STRUCTURE.
C4	REMOVE EXISTING RAMP OR SIDEWALK, REPLACE WITH 4" SIDEWALK OR RAMP.
C6	REMOVE EXISTING RAMP OR SIDEWALK, REPLACE WITH 6" SIDEWALK OR RAMP.
C8	PLACE 8" SIDEWALK OR RAMP ONLY
C HE	REMOVE EXISTING DRIVE APPROACH, RAMP OR SIDEWALK. REPLACE WITH 6" OR 8" APPROACH, RAMP,OR SIDEWALK, H.E.
CP	PLACE 4" SIDEWALK OR RAMP.
AK	ADJUST MDOT TYPE K CASTING.
TYPE II	MDOT TYPE II BARRICADE.
TYPE III	MDOT TYPE III BARRICADE.
RRK	REMOVE AND REPLACE MDOT TYPE K CASTING. ADJUST TO FINISH GRADE.
RS	RECONSTRUCT STRUCTURE.
RCP	REMOVE CONC. PAVEMENT - ANY THICKNESS
RCW	RAISED CROSSWALK

LEGEND	
SYMBOL	DESCRIPTION
⊙	EXISTING SANITARY SEWER MANHOLE
⊙	EXISTING STORM SEWER MANHOLE
⊗	EXISTING WATER MAIN VALVE IN WELL
+	WATER MAIN GATE VALVE IN BOX
⊕	FIRE HYDRANT
⊙	MICHCON GAS CO. VALVE BOX/WELL
⊙	AMERITECH TELEPHONE VAULT
⊙	ELECTRIC MANHOLE
⊕	SOIL BORING
□	EXISTING STORM SEWER INLET
⊠	MONUMENT BOX
▬	REMOVE AND REPLACE CONC. SIDEWALK
▬	PLACE CONCRETE SIDEWALK
▬	REMOVE & REPLACE CONC. CURB & GUTTER
▬	CONSTRUCTION LIMITS
▬	6" WRAPPED UNDERDRAIN
▬	REMOVE CONCRETE SIDEWALK
▬	SUBGRADE UNDERCUT

### 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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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 1.5 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. ADJUST ALL STRUCTURE COVERS, MONUMENT BOXES, AND VALVE BOXES TO THEIR FINISHED ELEVATIONS.
10. PAVE 1.5 INCH OF THE BITUMINOUS MIX AS SPECIFIED OR DIRECTED, AS THE WEARING COURSE, IN ONE LIFT.
11. COMPLETE ALL PAVEMENT MARKINGS IN ACCORDANCE WITH THE PLANS, AND AS DIRECTED BY THE ENGINEER.
12. COMPLETE ALL MISCELLANEOUS CONSTRUCTION INCLUDING ALL CLEAN-UP AND FINAL RESTORATION.
13. REMOVE ALL TRAFFIC CONTROL DEVICES. REMOVE MISS DIG FLAGS.

### NOTES:

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ANN ARBOR, MICHIGAN 48107-8647  
734-794-6410 www.a2gov.org

PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR

2016 ANNUAL RESURFACING

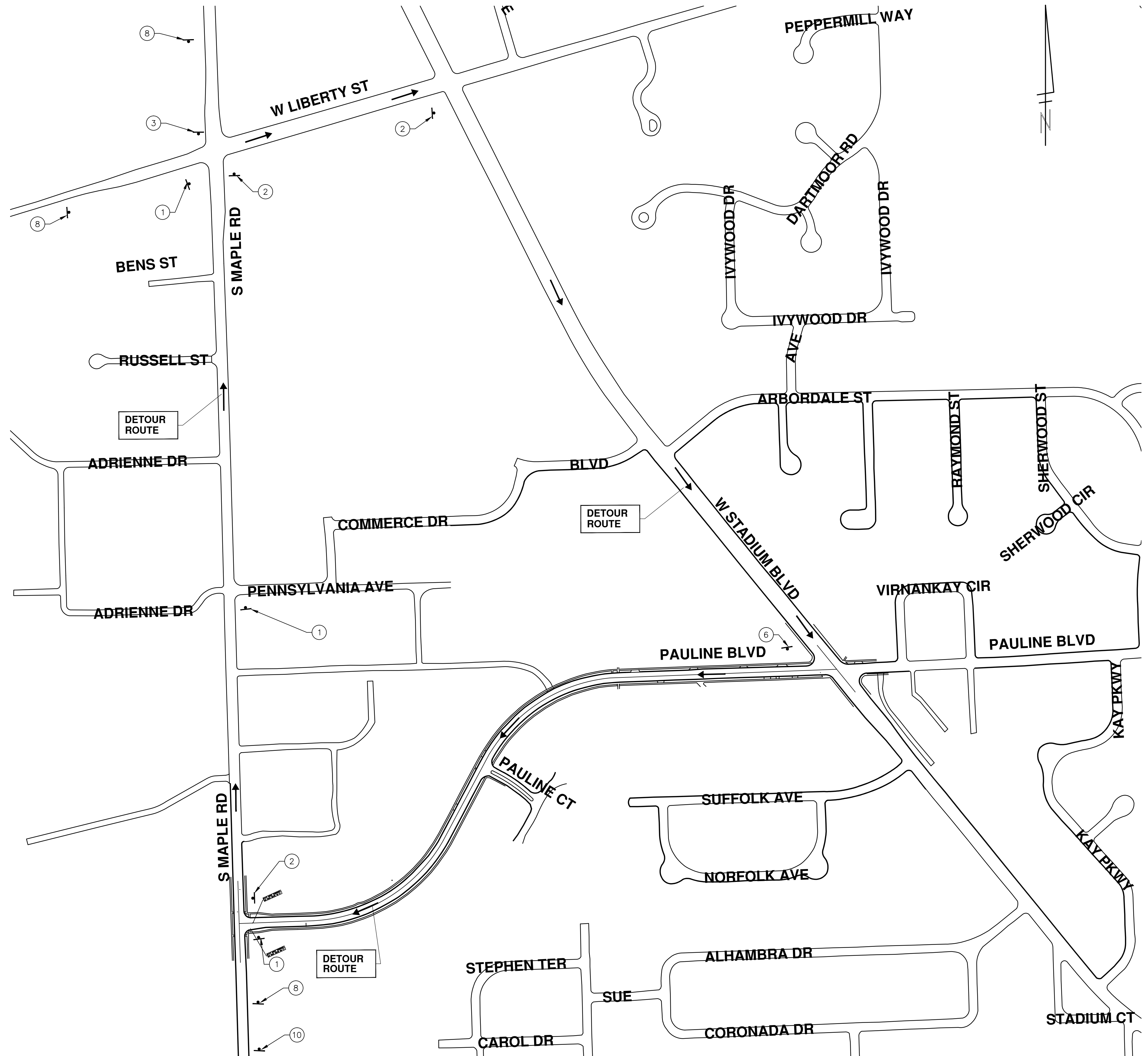
PAULINE BLVD

DRAWING No. 2016004-6

SHEET No. 6 OF 97

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TRAFFIC CONTROL SIGN		
TAG	SIGN	NUM.
1		D3-1 M4-9S 30x24
2		D3-1 M4-9R 30x24
3		D3-1 M4-9L 30x24
6		D3-1 M4-8a 24X18
7		R11-4 60x30
8		SPECIAL 48x60
9		SPECIAL 48x60
10		W20-2 48x48 D3-1
11		R11-2 48"x60" R11-2



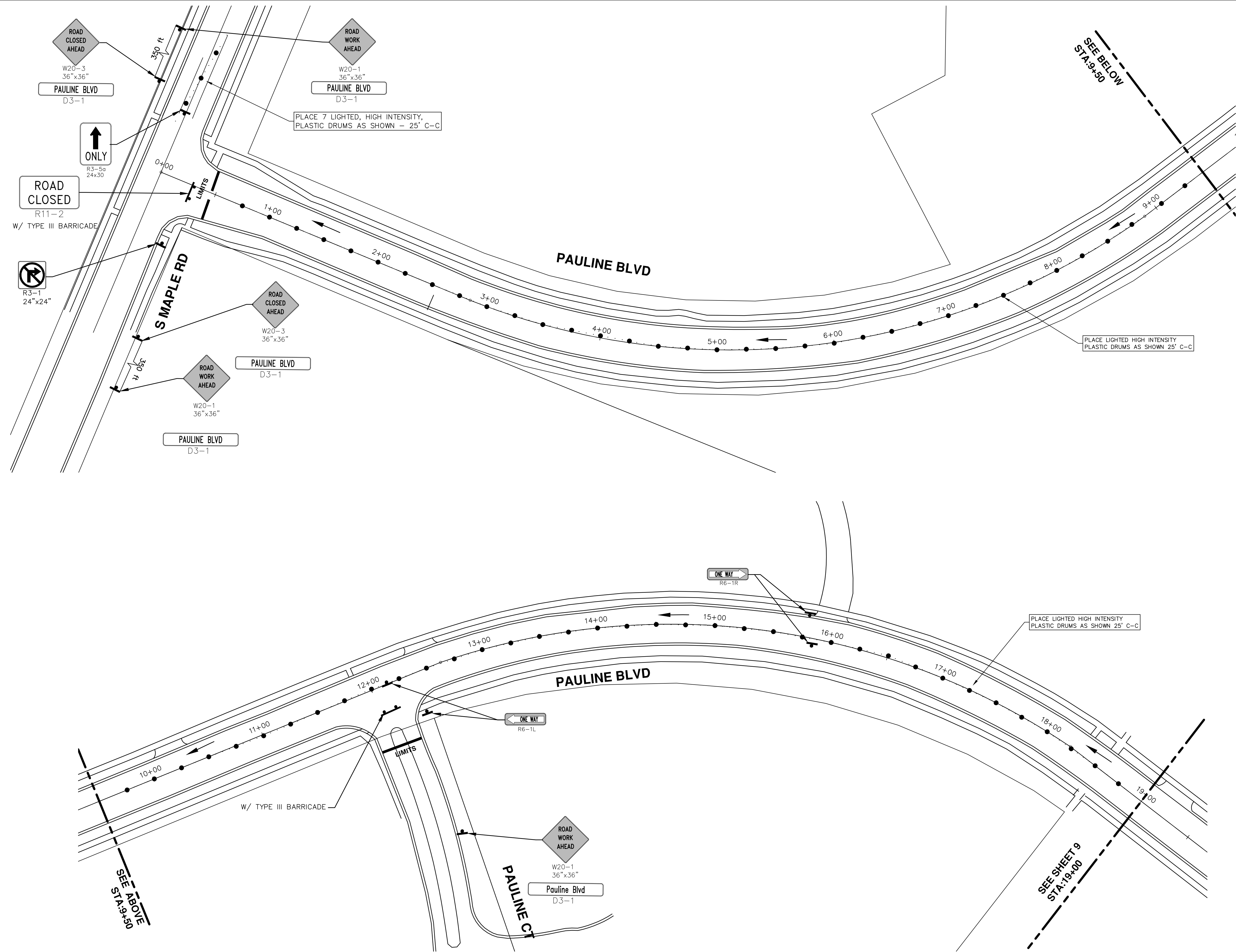
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2016 ANNUAL RESURFACING  
PAULINE BLVD  
DETOUR

SCALE PLAN: 1" = 200'  
DRAWING No. 2016004-7

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**PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR**

**2016 ANNUAL RESURFACING**


PAULINE BLVD

TRAFFIC CONTROL

SCALE PLAN: 1" = 40'

DRAWING No. 2016004-8

SHEET No. 8 OF 97

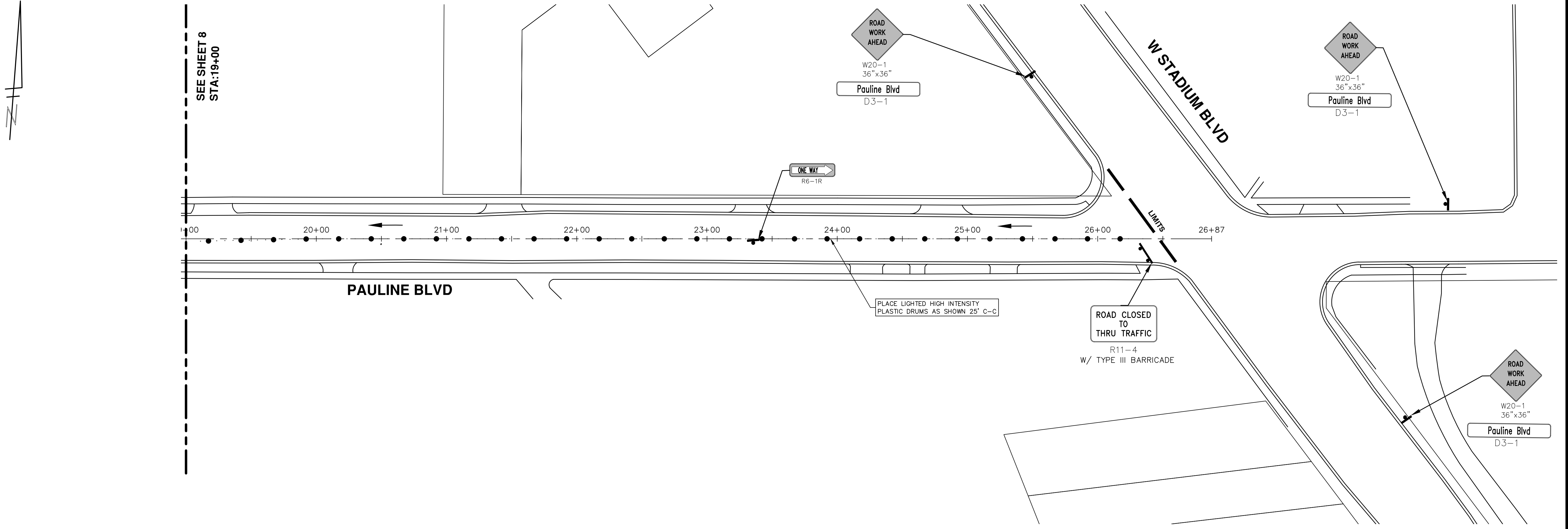


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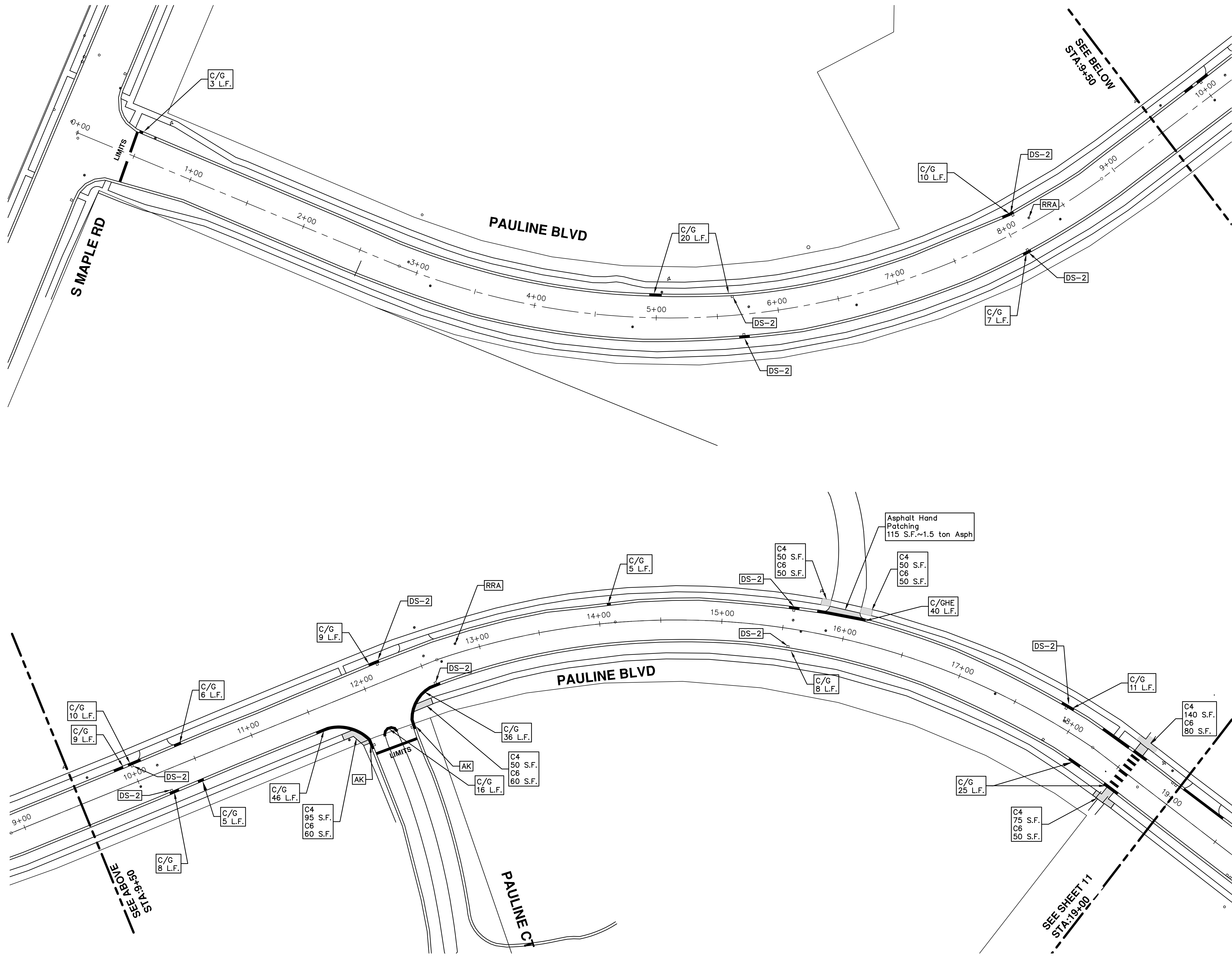
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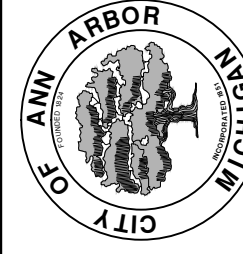
PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR 2016 ANNUAL RESURFACING PAULINE BLVD TRAFFIC CONTROL	CITY OF ANN ARBOR PUBLIC SERVICES 301 EAST HURON STREET ANN ARBOR, MI 48106-0667 www.a2gov.org
SCALE PLAN: 1" = 40' DRAWING No. 2016004-9	SHEET No. 9 OF 97
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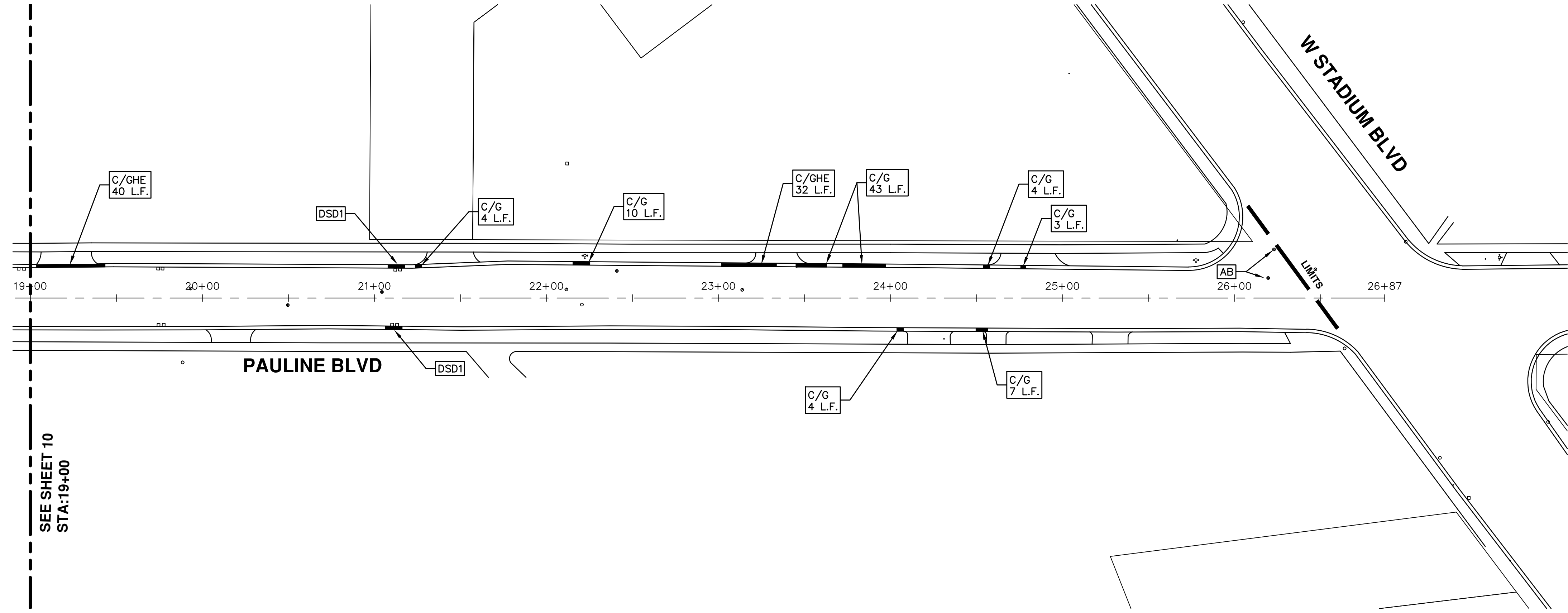
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**PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR**  
**2016 ANNUAL RESURFACING**  
 PAULINE BLVD  
 RESURFACING

SCALE PLAN: 1" = 40'  
 DRAWING No. 2016004-10



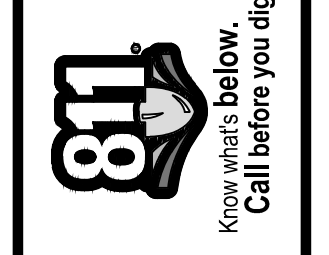
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STA: 19+00



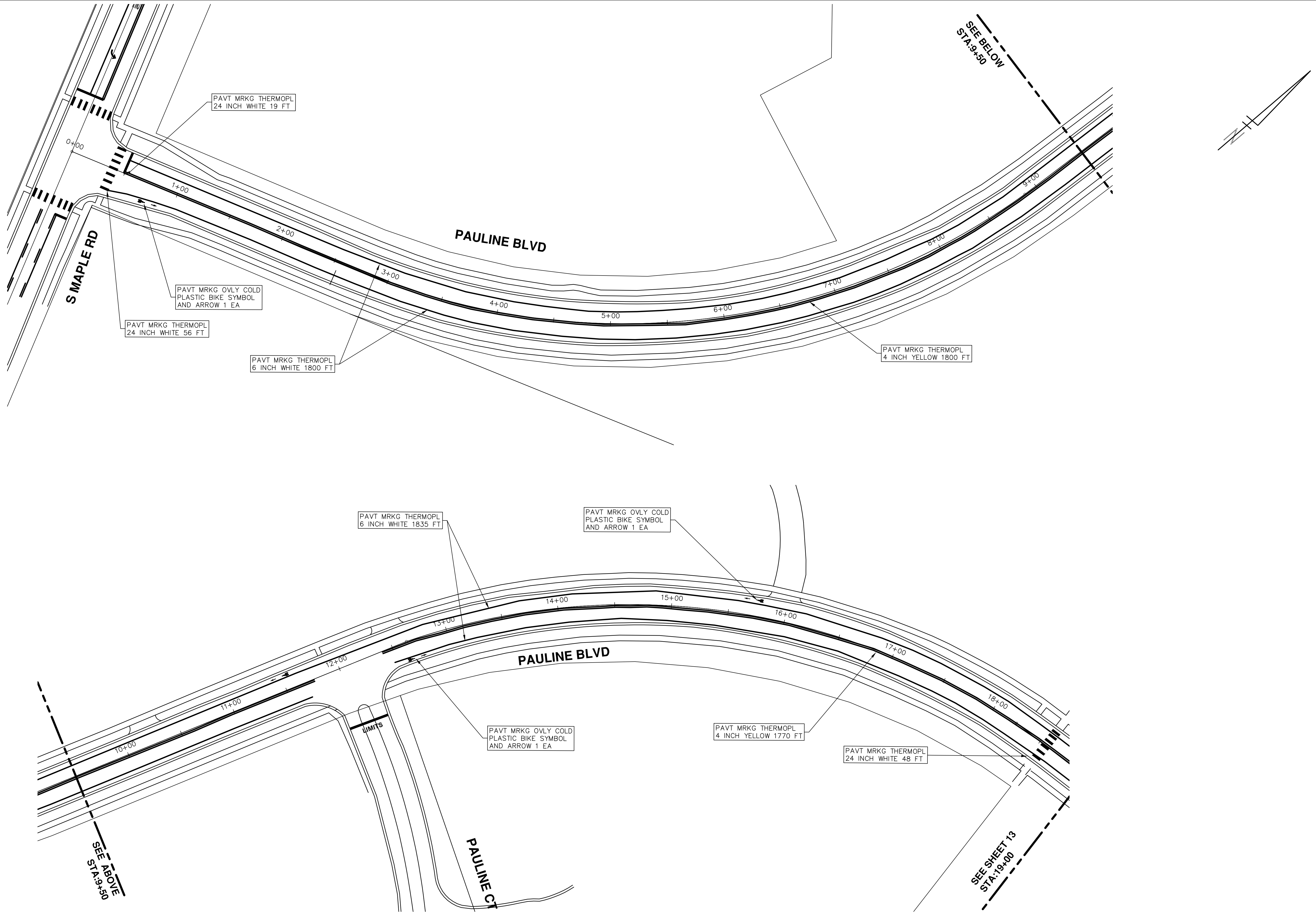
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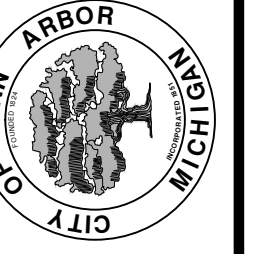


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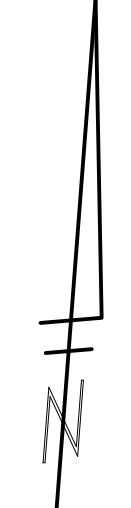
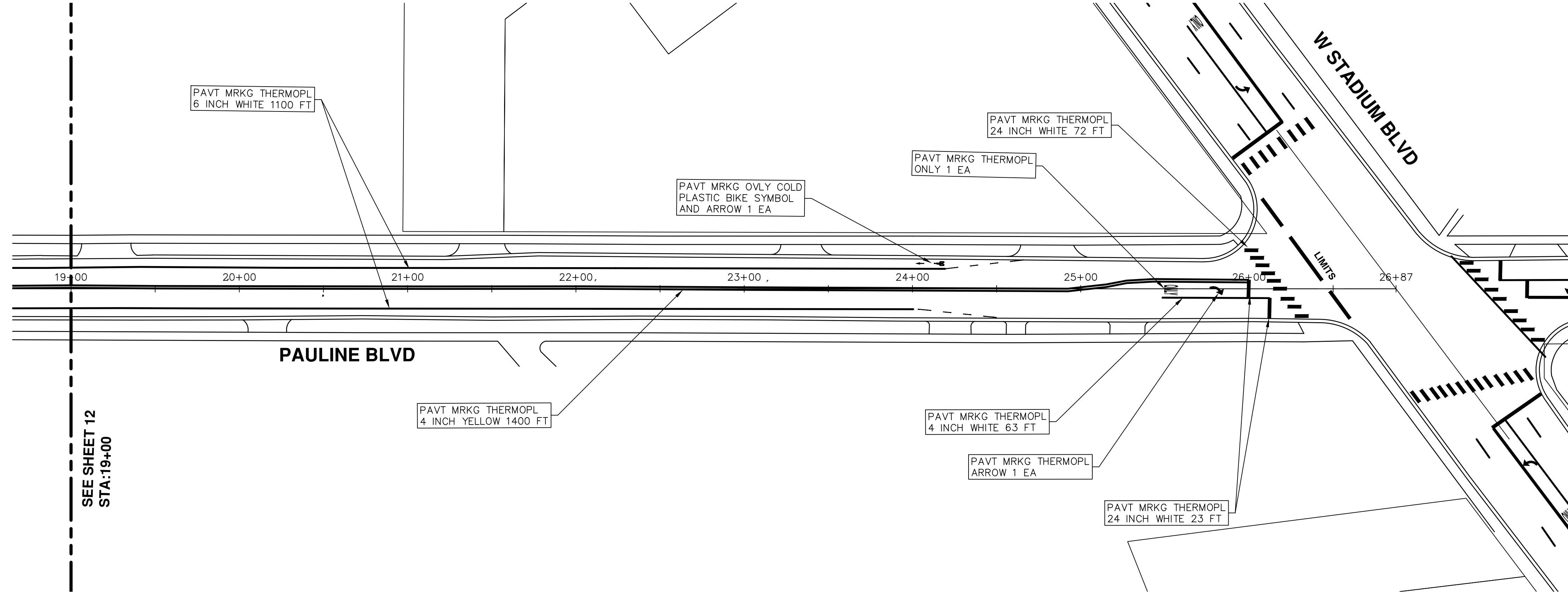
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**2016 ANNUAL RESURFACING**  
 PAULINE BLVD  
 PAVEMENT MARKINGS

SCALE PLAN: 1" = 40'  
 DRAWING No. 2016004-12



**PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR**  
**2016 ANNUAL RESURFACING**  
 PAULINE BLVD  
 PAVEMENT MARKINGS

SCALE PLAN: 1" = 40'

DRAWING No. 2016004-13

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# CITY OF ANN ARBOR PROJECT MANAGEMENT 2016 ANNUAL RESURFACING PROJECT LOCATION: DEXTER AVENUE

ITB No. 4422 FILE No. 2016004



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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	DESCRIPTION
C/G	REMOVE AND REPLACE CURB AND GUTTER
C/GHE	REMOVE CURB AND GUTTER, REPLACE WITH CONCRETE CURB AND GUTTER H.E.
C4HE	REMOVE EXISTING RAMP OR SIDEWALK. REPLACE WITH 4" SIDEWALK OR TYPE 1 SIDEWALK RAMP,H.E.
CR	REMOVE SIDEWALK, DRIVE OR RAMP.
AA	ADJUST MDOT TYPE A CASTINGS.
AB	ADJUST GATE VALVE BOX OR MONUMENT BOX.
ADST	ADDITIONAL DEPTH STRUCTURE REPAIR.
RRA	REMOVE AND REPLACE MDOT TYPE A CASTING ADJUST TO FINISH GRADE.
CPRHE	CONCRETE PAVEMENT REPAIR, H.E.
DS	CONSTRUCT 2, 3 OR 4' DIAM. DRAINAGE STRUCTURE.
PT	POINT STRUCTURE.
C4	REMOVE EXISTING RAMP OR SIDEWALK, REPLACE WITH 4" SIDEWALK OR RAMP.
C6	REMOVE EXISTING RAMP OR SIDEWALK, REPLACE WITH 6" SIDEWALK OR RAMP.
C8	PLACE 8" SIDEWALK OR RAMP ONLY
C HE	REMOVE EXISTING DRIVE APPROACH, RAMP OR SIDEWALK. REPLACE WITH 6" OR 8" APPROACH, RAMP,OR SIDEWALK, H.E.
CP	PLACE 4" SIDEWALK OR RAMP.
AK	ADJUST MDOT TYPE K CASTING.
TYPE II	MDOT TYPE II BARRICADE.
TYPE III	MDOT TYPE III BARRICADE.
RRK	REMOVE AND REPLACE MDOT TYPE K CASTING. ADJUST TO FINISH GRADE.
RS	RECONSTRUCT STRUCTURE.
RCP	REMOVE CONC. PAVEMENT - ANY THICKNESS
RCW	RAISED CROSSWALK

LEGEND	
SYMBOL	DESCRIPTION
⊙	EXISTING SANITARY SEWER MANHOLE
⊙	EXISTING STORM SEWER MANHOLE
⊗	EXISTING WATER MAIN VALVE IN WELL
+	WATER MAIN GATE VALVE IN BOX
⊕	FIRE HYDRANT
⊙	MICHCON GAS CO. VALVE BOX/WELL
⊙	AMERITECH TELEPHONE VAULT
⊙	ELECTRIC MANHOLE
⊕	SOIL BORING
□	EXISTING STORM SEWER INLET
⊠	MONUMENT BOX
▬	REMOVE AND REPLACE CONC. SIDEWALK
▬	PLACE CONCRETE SIDEWALK
▬	REMOVE & REPLACE CONC. CURB & GUTTER
---	CONSTRUCTION LIMITS
---	6" WRAPPED UNDERDRAIN
▨	REMOVE CONCRETE SIDEWALK
▨	SUBGRADE UNDERCUT

### 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 1.5 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. ADJUST ALL STRUCTURE COVERS, MONUMENT BOXES,AND VALVE BOXES TO THEIR FINISHED ELEVATIONS.
10. PAVE 1.5 INCH OF THE BITUMINOUS MIX AS SPECIFIED OR DIRECTED, AS THE WEARING COURSE, IN ONE LIFT.
11. COMPLETE ALL PAVEMENT MARKINGS IN ACCORDANCE WITH THE PLANS, AND AS DIRECTED BY THE ENGINEER.
12. COMPLETE ALL MISCELLANEOUS CONSTRUCTION INCLUDING ALL CLEAN-UP AND FINAL RESTORATION.
13. 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 CONSTRUCTION COVERED BY THESE PLANS SHALL CONFORM TO THE 1994 EDITION OF THE CITY OF ANN ARBOR PUBLIC SERVICES DEPARTMENT STANDARD SPECIFICATIONS, IT'S DETAILS, WHICH ARE INCLUDED BY REFERENCE, AND THIS PROJECT'S CONTRACT DOCUMENTS. THE OMISSION OF ANY CURRENT STANDARD DETAIL DOES NOT RELIEVE THE CONTRACTOR FROM THIS REQUIREMENT.



**PROJECT MANAGEMENT SERVICES UNIT**  
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

PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR

2016 ANNUAL RESURFACING

DEXTER AVENUE

PROJECT DESCRIPTION

DRAWING No. 2016004-14

SHEET No.

14 OF 97



TRAFFIC CONTROL SIGN		
TAG	SIGN	NUM.
1		D3-1 M4-9S 30x24
2		D3-1 M4-9R 30x24
3		D3-1 M4-9L 30x24
6		D3-1 M4-8a 24x18
7		R11-4 60x30
8		SPECIAL 48x60
9		SPECIAL 48x60
10	 W20-2 36"x36"  D3-1	
11	 W20-3 36"x36"  D3-1	
12	 W20-1 36"x36"  D3-1	
13		R11-4 60x30



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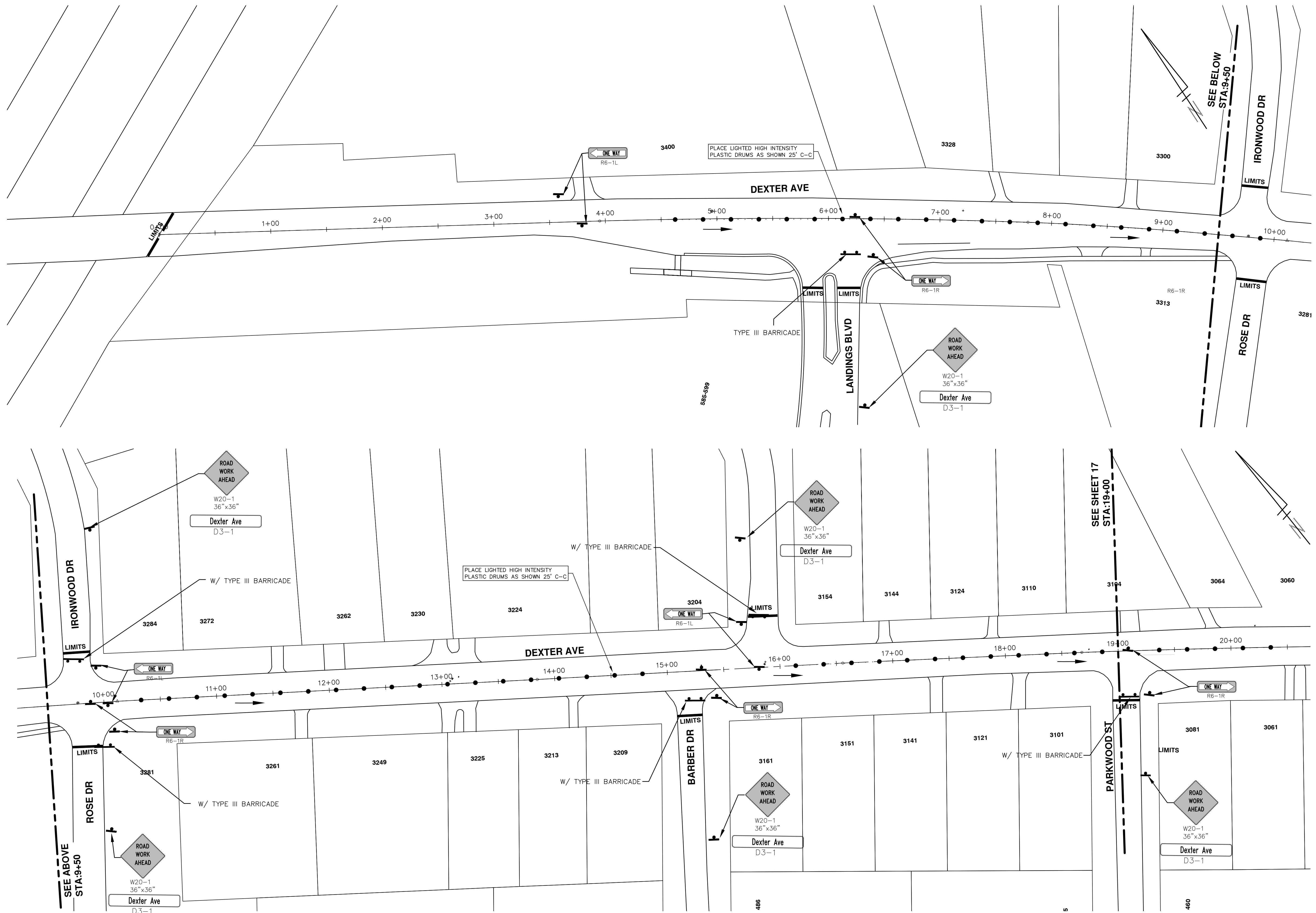
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2016 ANNUAL RESURFACING  
DEXTER AVENUE  
DETOUR

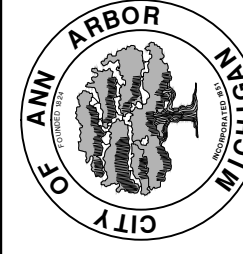
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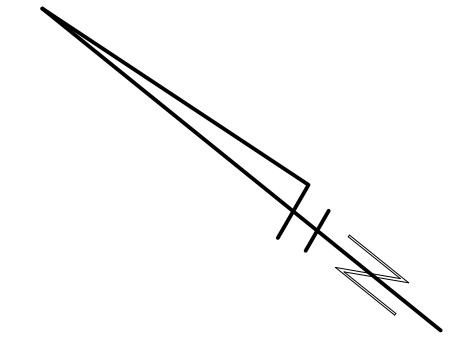
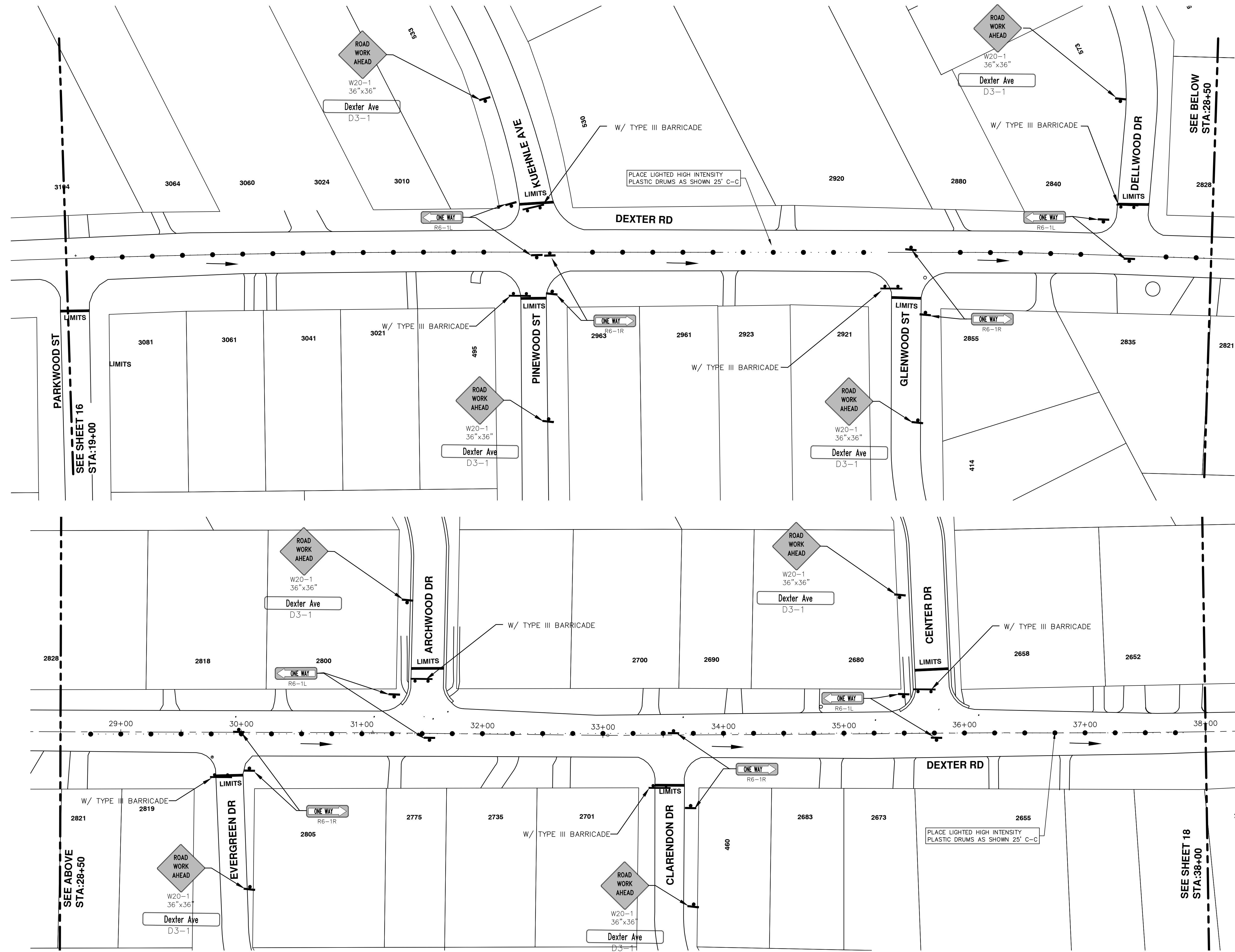


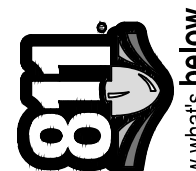
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TRAFFIC CONTROL

SCALE PLAN: 1" = 40'  
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SHEET No. 16 OF 97



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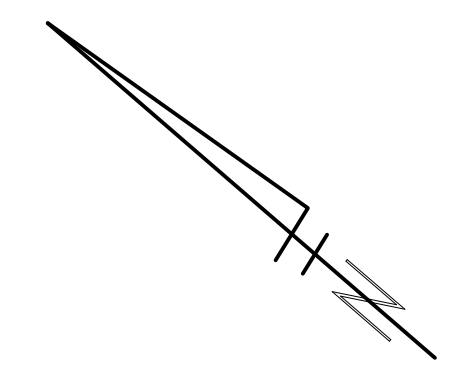
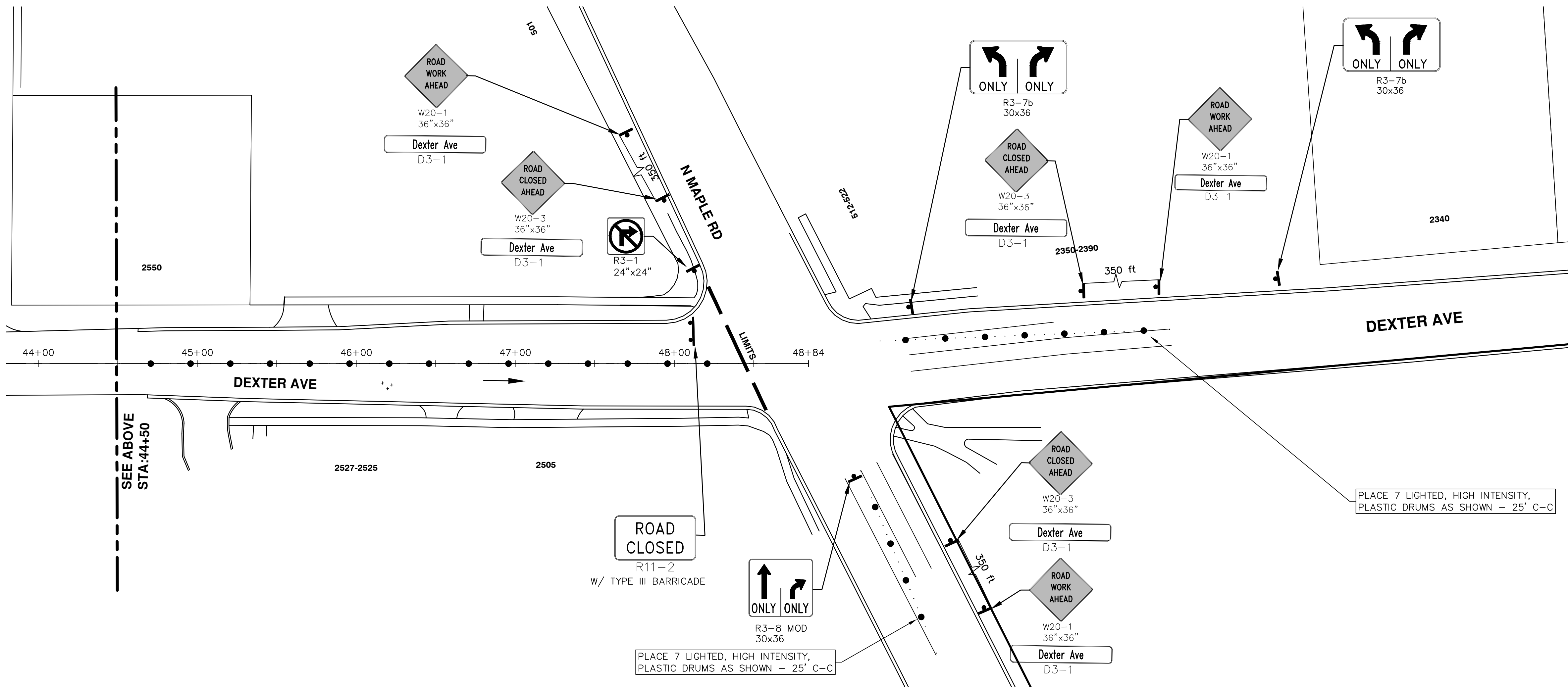
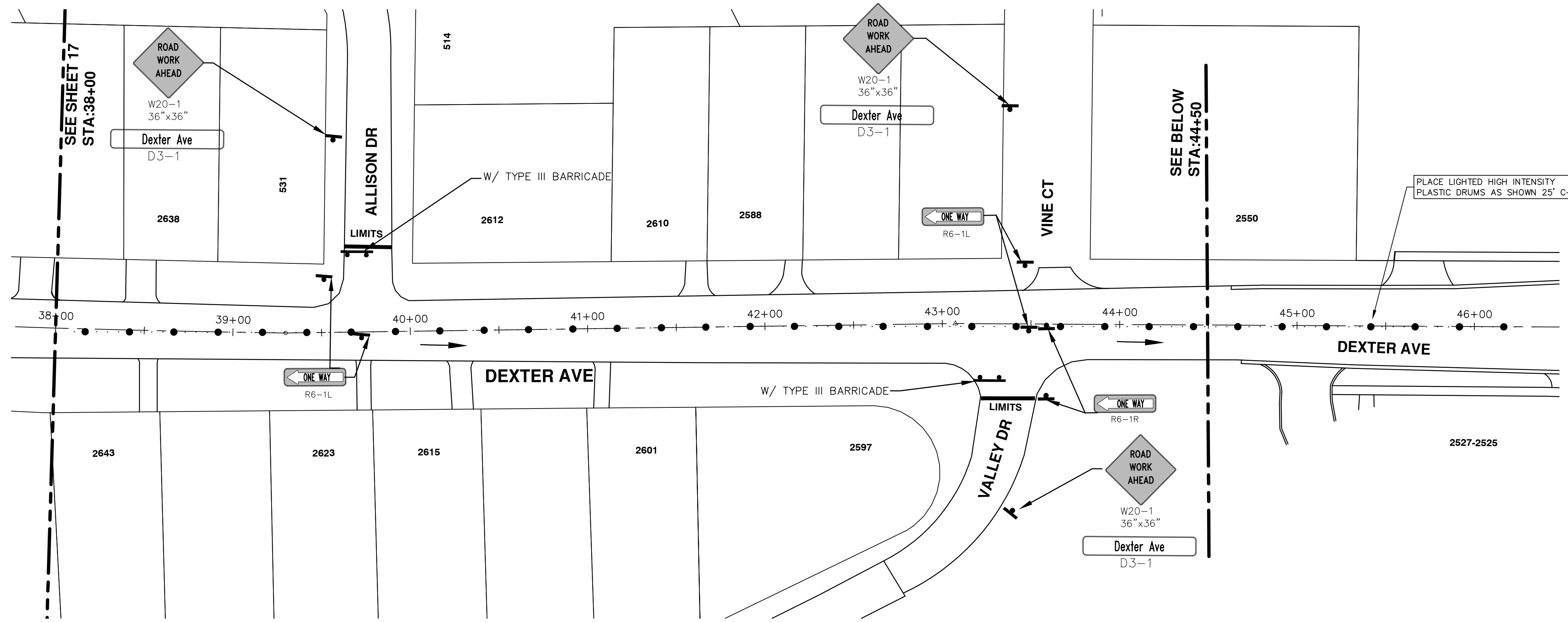
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**2016 ANNUAL RESURFACING**  
 DEXTER AVENUE  
 TRAFFIC CONTROL

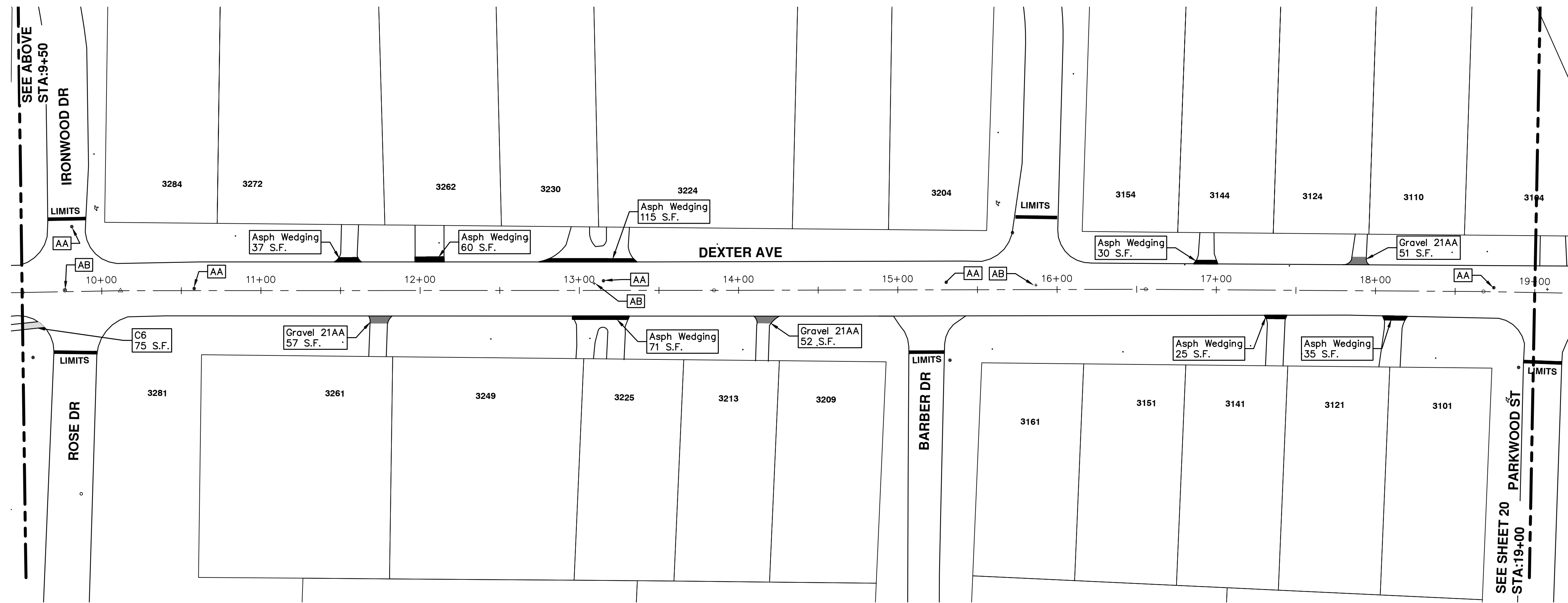
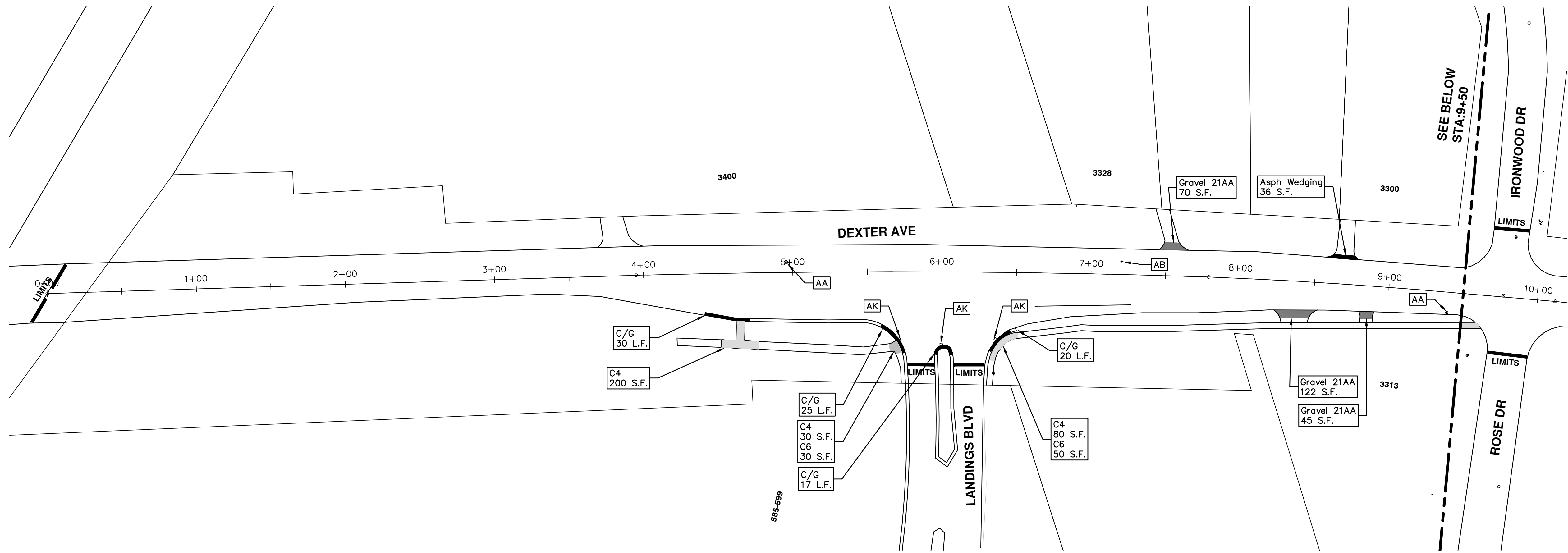
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<p>SCALE PLAN: 1" = 40'</p>	<p>DRAWING No. 2016004-18</p>												
<p>SHEET No. 18 OF 97</p>													
<p>CITY OF ANN ARBOR          PUBLIC SERVICES          301 EAST HURON STREET          ANN ARBOR, MI 48106-1667          www.a2gov.org</p>	<table border="1"> <tr> <th>REV.</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> <tr> <td>00</td> <td>2-22-2016</td> <td>BID SET</td> </tr> <tr> <td></td> <td></td> <td>DRAWN</td> </tr> <tr> <td></td> <td></td> <td>CHECKED</td> </tr> </table>	REV.	DATE	DESCRIPTION	00	2-22-2016	BID SET			DRAWN			CHECKED
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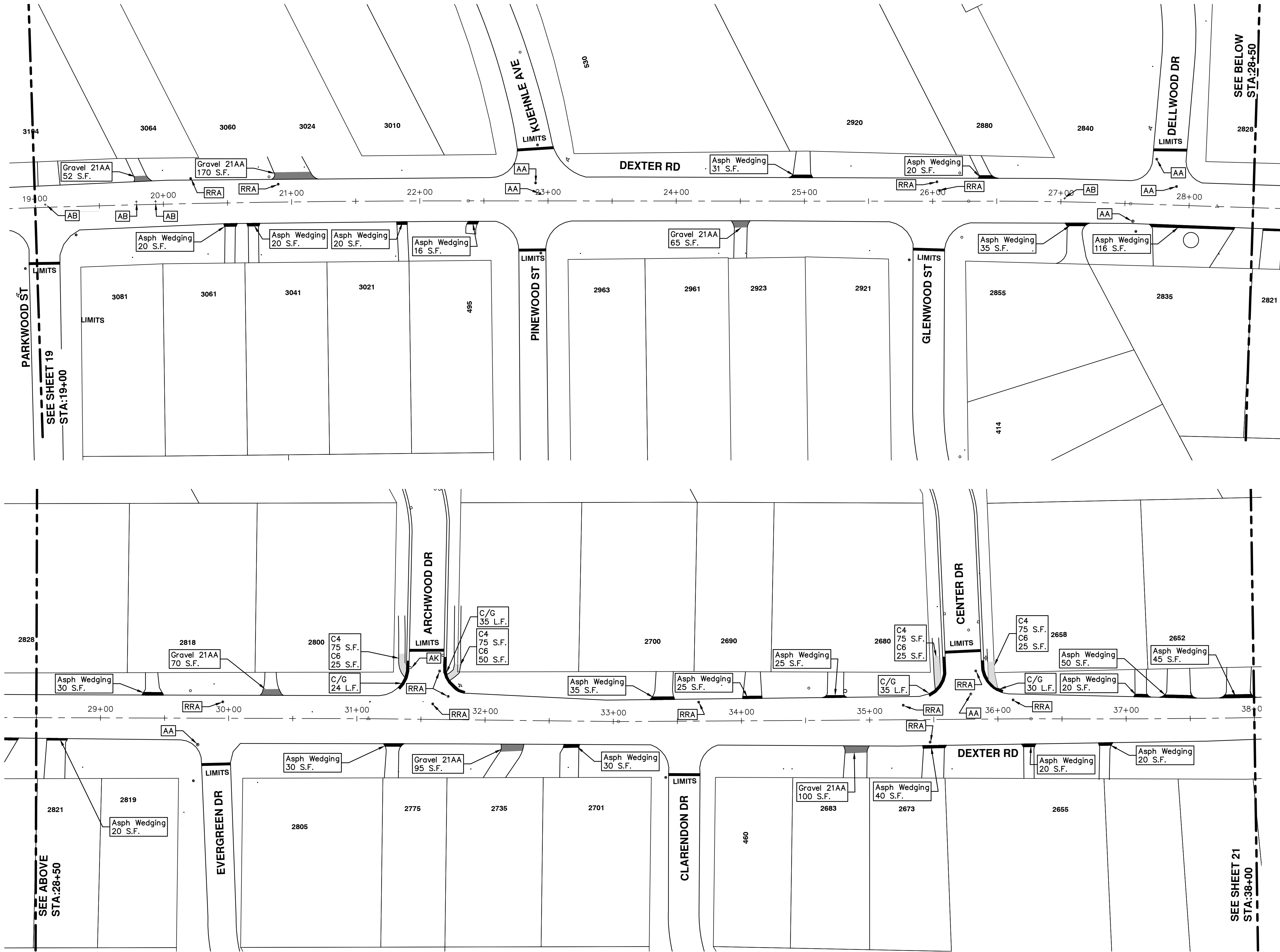
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**2016 ANNUAL RESURFACING**  
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RESURFACING

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STA:19+00

SEE BELOW  
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SEE ABOVE  
STA:28+50

SEE SHEET 21  
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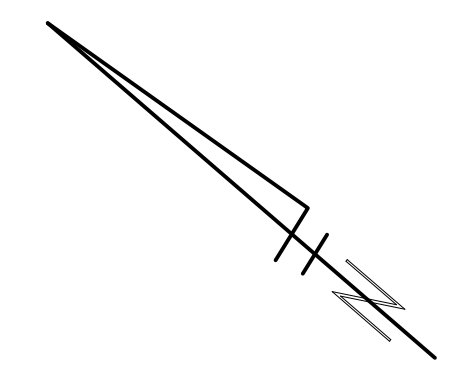
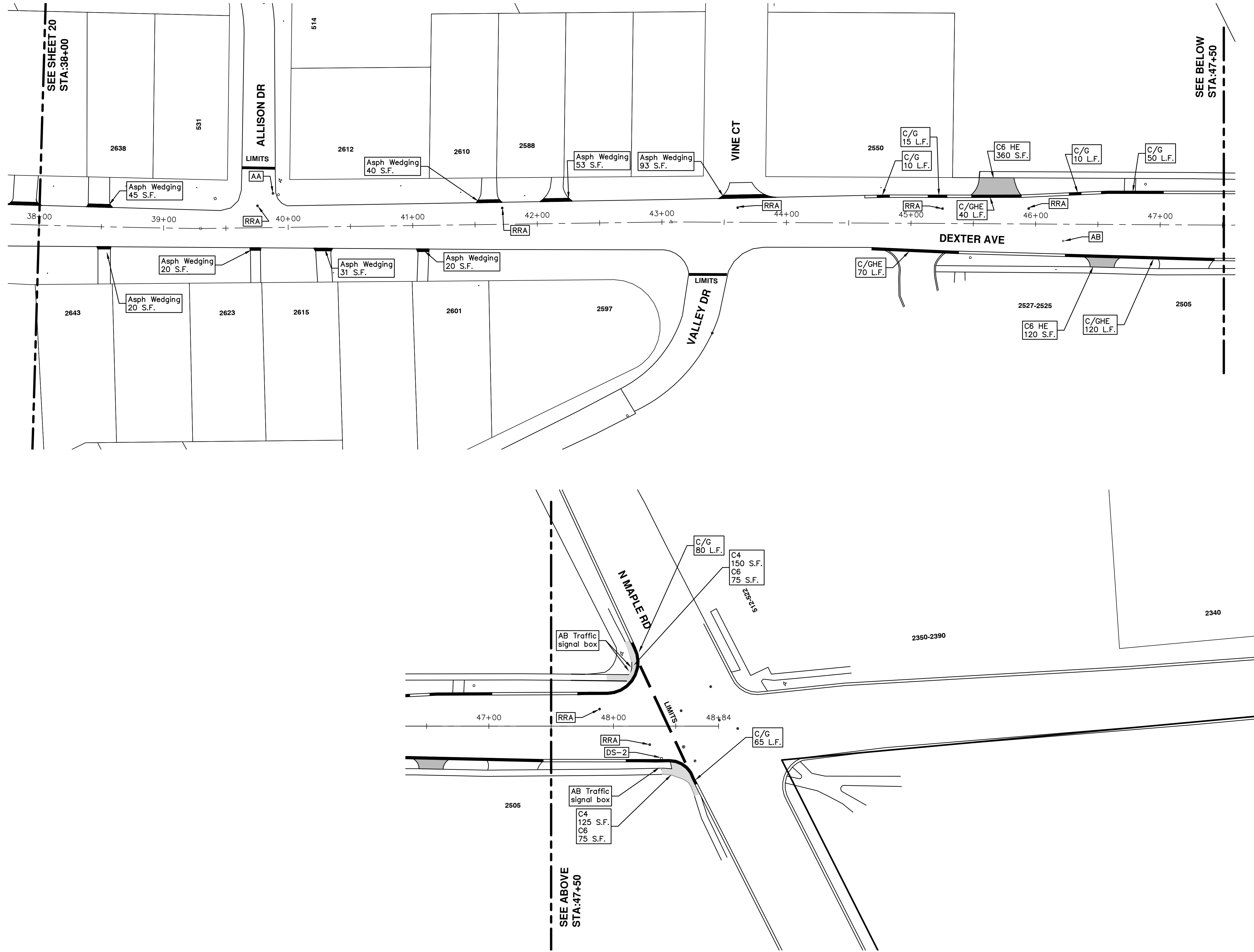
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DEXTER AVENUE  
RESURFACING


SCALE PLAN: 1" = 40'

DRAWING No.  
**2016004-20**

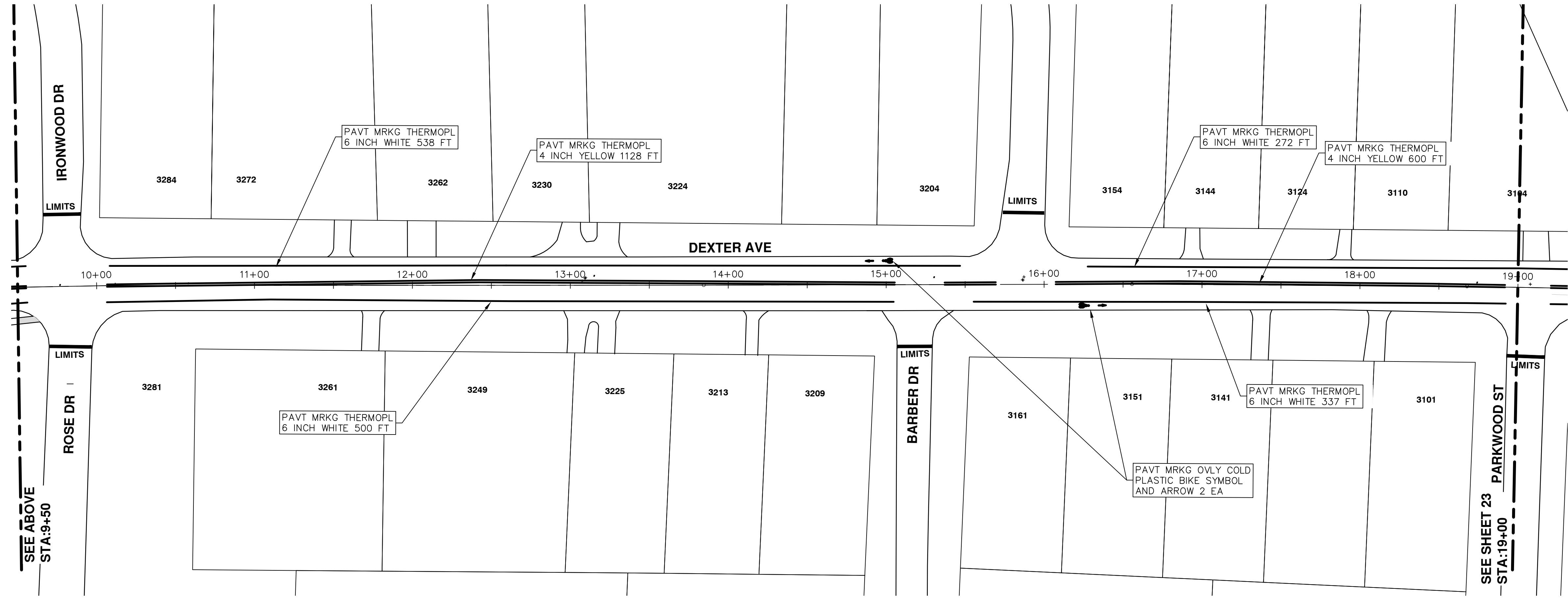
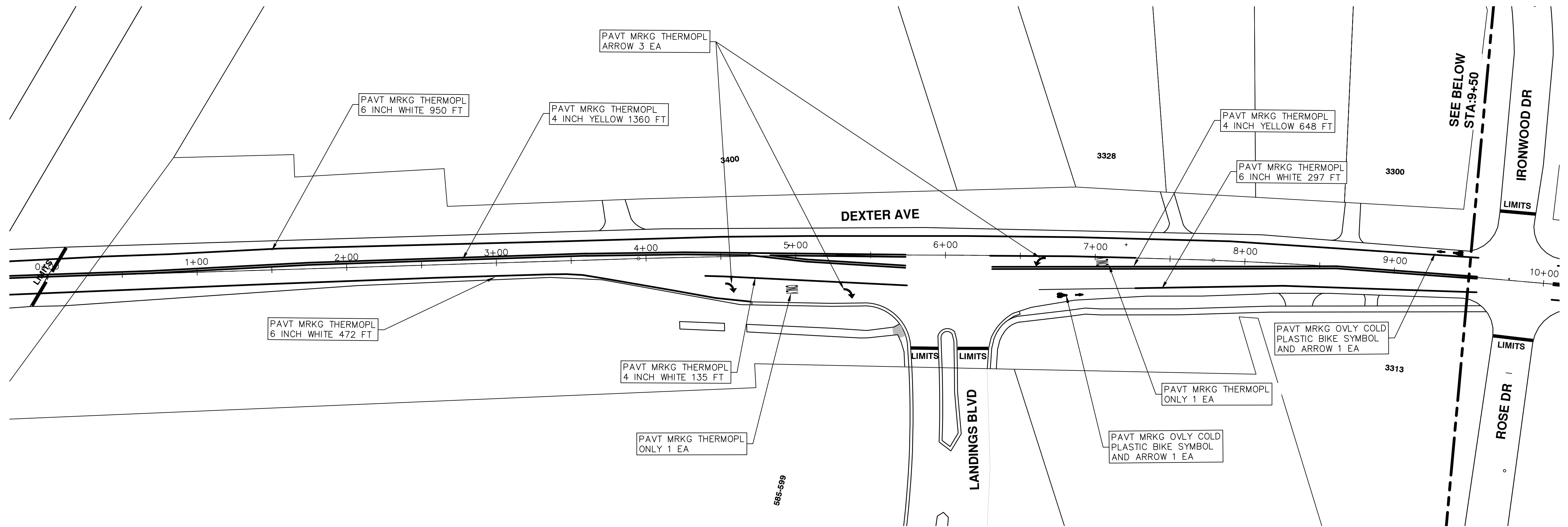
SHEET No.  
**20 OF 97**

S:\Project Management\Drafting\autocad\2016004\Plan Production\2016004-DEXTER AVE.dwg Dwg Created: 24-Nov-15 - \_a2 standard bw.stb - Plot Date: 22-Feb-16



	
PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR 2016 ANNUAL RESURFACING DEXTER AVENUE RESURFACING	CITY OF ANN ARBOR PUBLIC SERVICES 301 EAST HURON STREET ANN ARBOR, MI 48106-1667 www.a2gov.org
SCALE PLAN: 1" = 40' DRAWING No. 2016004-21	SHEET No. 21 OF 97
REV. NO.    DESCRIPTION    DATE    DRAWN    CHECKED	00    BID SET    2-22-2016    SS AH UK    DAD
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00	BID SET	2-22-2016	SS AH JK	DAD

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**PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR**  
2016 ANNUAL RESURFACING  
DEXTER AVENUE  
PAVEMENT MARKINGS

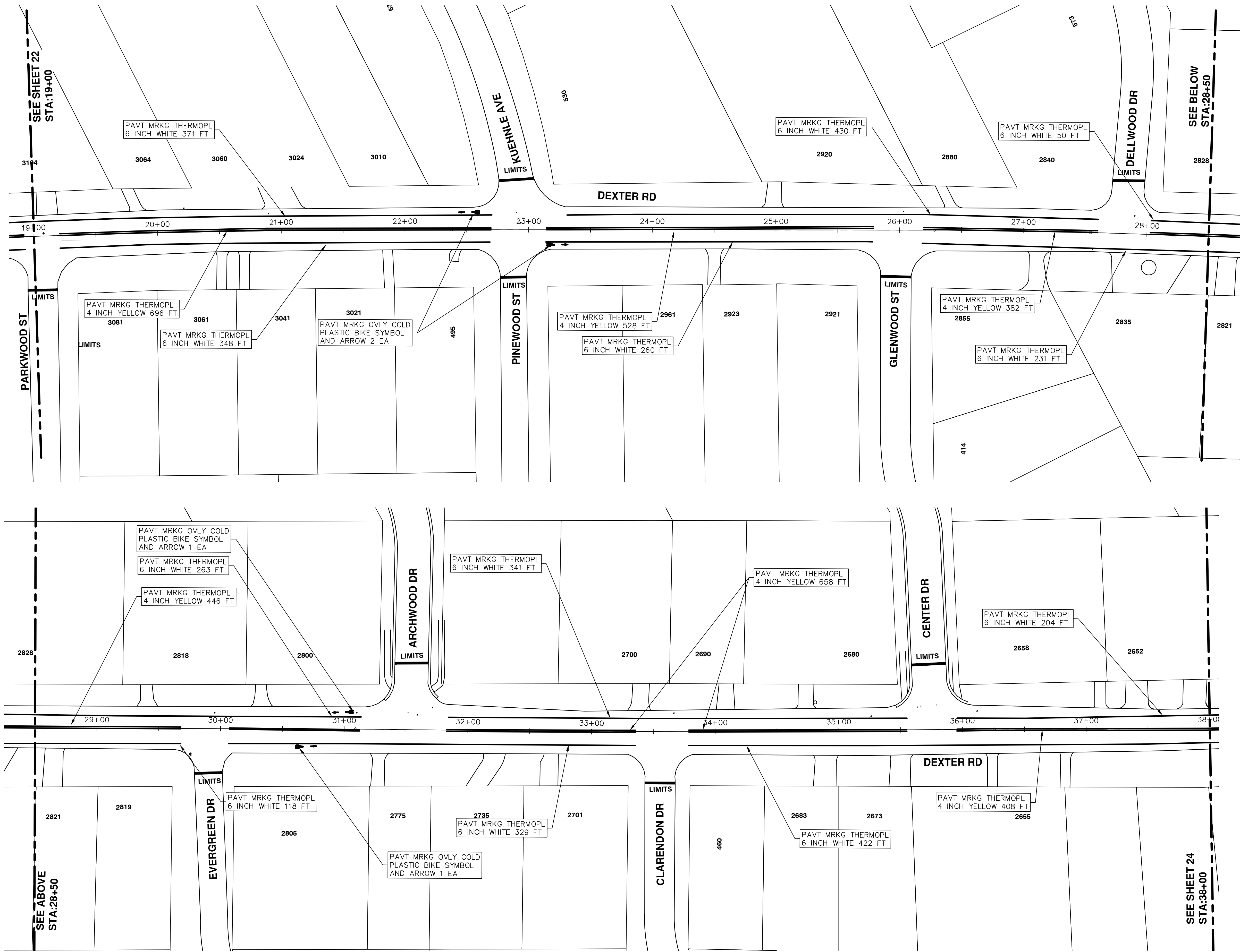
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DRAWING No. 2016004-22

SEE ABOVE  
STA: 9+50

SEE SHEET 23  
STA: 19+00

SHEET No. 22 OF 97

S:\Project Management\Drafting\autocad\2016004\Plan Production\2016004-DEXTER AVE.dwg Dwg Created: 24-Nov-15 - \_a2 standard bw.stb - Plot Date: 22-Feb-16



SEE SHEET 22  
STA:19+00

SEE BELOW  
STA:28+50

SEE ABOVE  
STA:28+50

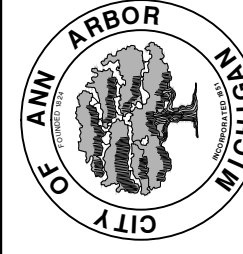
SEE SHEET 24  
STA:38+00



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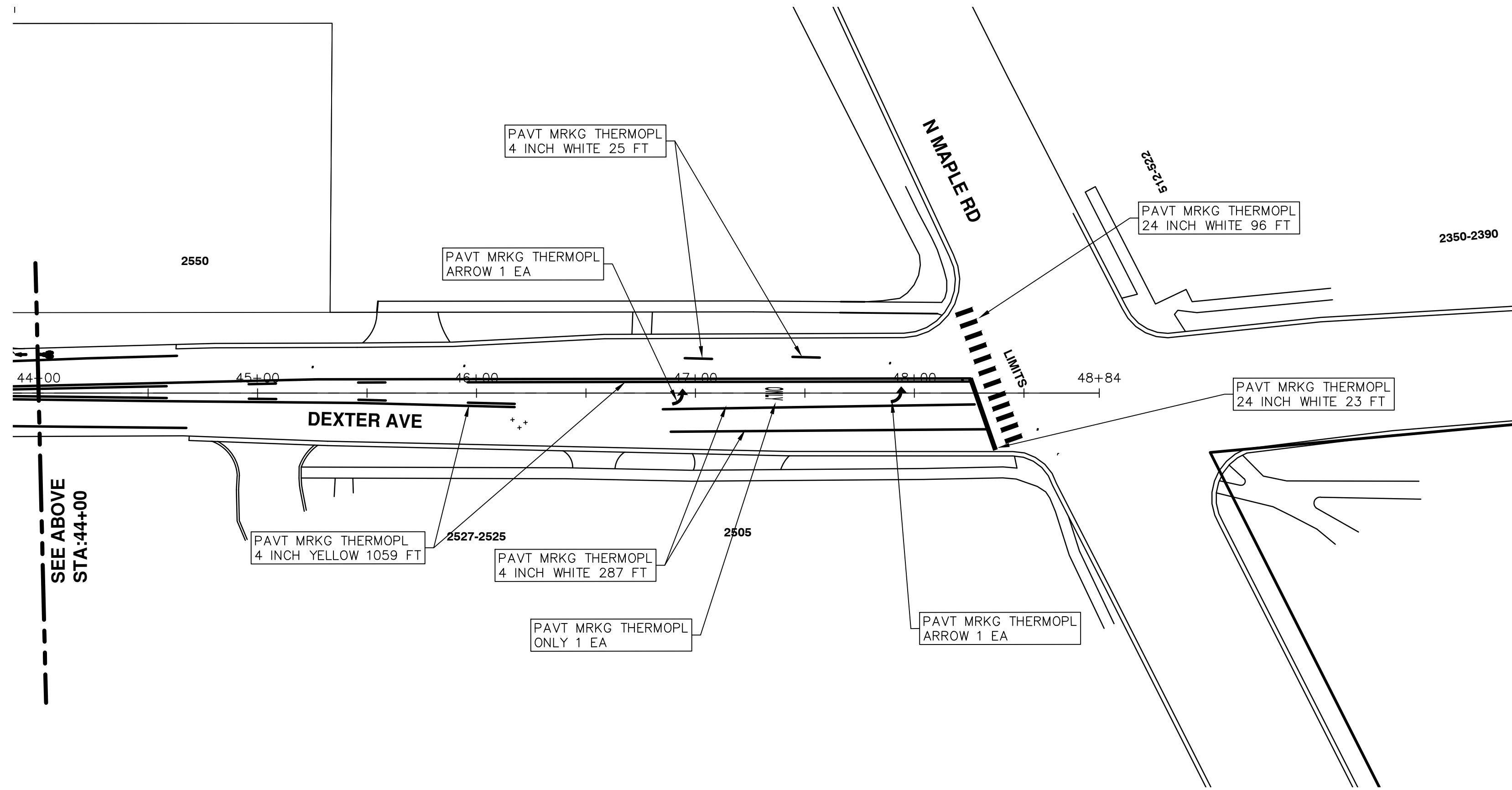
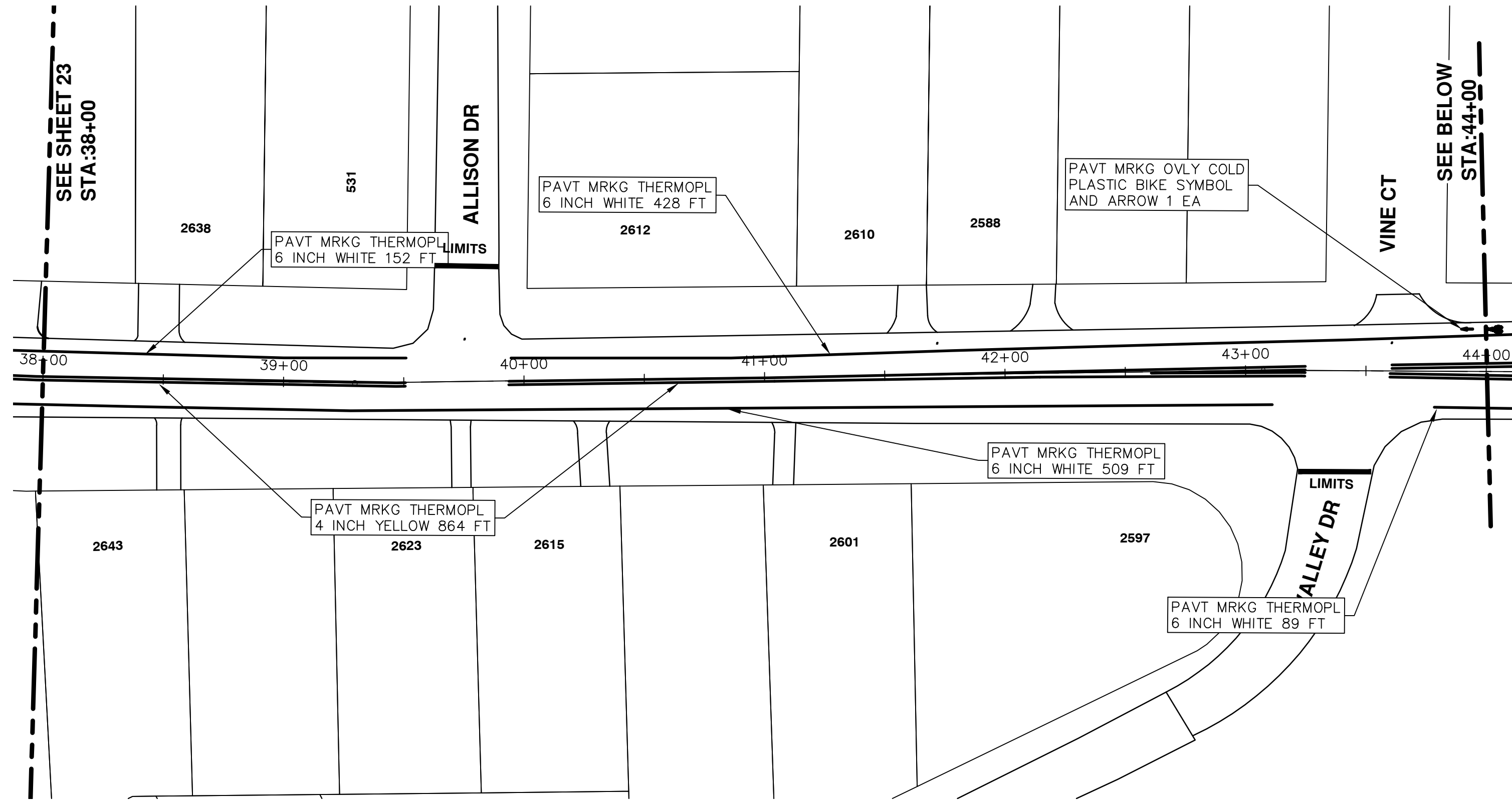
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PUBLIC SERVICES  
301 EAST HURON STREET  
ANN ARBOR MI 48106-0647  
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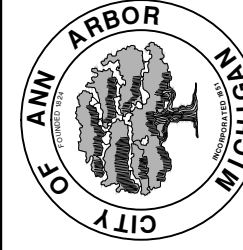
**PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR**  
**2016 ANNUAL RESURFACING**  
DEXTER AVENUE  
PAVEMENT MARKINGS

SCALE PLAN: 1" = 40'  
DRAWING No. 2016004-23

S:\Project Management\Drafting\autocad\2016004\Plan Production\2016004-DEXTER AVE.dwg Dwg Created: 24-Nov-15 - \_a2 standard bw.stb - Plot Date: 22-Feb-16



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**2016 ANNUAL RESURFACING**  
DEXTER AVENUE  
PAVEMENT MARKINGS

SCALE PLAN: 1" = 40'  
DRAWING No. 2016004-24

SHEET No.

REV.	DESCRIPTION	DATE	DRAWN	CHECKED
00	BID SET	2-22-2016	SS AH JK	DAD





# CITY OF ANN ARBOR PROJECT MANAGEMENT 2016 ANNUAL RESURFACING PROJECT LOCATION: DHU VARREN

ITB No. 4422 FILE No. 2016004



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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	DESCRIPTION
C/G	REMOVE AND REPLACE CURB AND GUTTER
C/GHE	REMOVE CURB AND GUTTER, REPLACE WITH CONCRETE CURB AND GUTTER H.E.
C4HE	REMOVE EXISTING RAMP OR SIDEWALK. REPLACE WITH 4" SIDEWALK OR TYPE 1 SIDEWALK RAMP,H.E.
CR	REMOVE SIDEWALK, DRIVE OR RAMP.
AA	ADJUST MDOT TYPE A CASTINGS.
AB	ADJUST GATE VALVE BOX OR MONUMENT BOX.
ADST	ADDITIONAL DEPTH STRUCTURE REPAIR.
RRA	REMOVE AND REPLACE MDOT TYPE A CASTING ADJUST TO FINISH GRADE.
CPRHE	CONCRETE PAVEMENT REPAIR, H.E.
DS	CONSTRUCT 2, 3 OR 4' DIAM. DRAINAGE STRUCTURE.
PT	POINT STRUCTURE.
C4	REMOVE EXISTING RAMP OR SIDEWALK, REPLACE WITH 4" SIDEWALK OR RAMP.
C6	REMOVE EXISTING RAMP OR SIDEWALK, REPLACE WITH 6" SIDEWALK OR RAMP.
C8	PLACE 8" SIDEWALK OR RAMP ONLY
C HE	REMOVE EXISTING DRIVE APPROACH, RAMP OR SIDEWALK. REPLACE WITH 6" OR 8" APPROACH, RAMP,OR SIDEWALK, H.E.
CP	PLACE 4" SIDEWALK OR RAMP.
AK	ADJUST MDOT TYPE K CASTING.
TYPE II	MDOT TYPE II BARRICADE.
TYPE III	MDOT TYPE III BARRICADE.
RRK	REMOVE AND REPLACE MDOT TYPE K CASTING. ADJUST TO FINISH GRADE.
RS	RECONSTRUCT STRUCTURE.
RCP	REMOVE CONC. PAVEMENT - ANY THICKNESS
RCW	RAISED CROSSWALK

LEGEND	
SYMBOL	DESCRIPTION
⊙	EXISTING SANITARY SEWER MANHOLE
⊙	EXISTING STORM SEWER MANHOLE
⊗	EXISTING WATER MAIN VALVE IN WELL
+	WATER MAIN GATE VALVE IN BOX
⊕	FIRE HYDRANT
⊙	MICHCON GAS CO. VALVE BOX/WELL
⊙	AMERITECH TELEPHONE VAULT
⊙	ELECTRIC MANHOLE
⊕	SOIL BORING
□	EXISTING STORM SEWER INLET
⊠	MONUMENT BOX
▬	REMOVE AND REPLACE CONC. SIDEWALK
▬	PLACE CONCRETE SIDEWALK
▬	REMOVE & REPLACE CONC. CURB & GUTTER
▬	CONSTRUCTION LIMITS
▬	6" WRAPPED UNDERDRAIN
▬	REMOVE CONCRETE SIDEWALK
▬	SUBGRADE UNDERCUT

**NOTES:**

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

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

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

**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 1.5 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. ADJUST ALL STRUCTURE COVERS, MONUMENT BOXES,AND VALVE BOXES TO THEIR FINISHED ELEVATIONS.
10. PAVE 1.5 INCH OF THE BITUMINOUS MIX AS SPECIFIED OR DIRECTED, AS THE WEARING COURSE, IN ONE LIFT.
11. COMPLETE ALL PAVEMENT MARKINGS IN ACCORDANCE WITH THE PLANS, AND AS DIRECTED BY THE ENGINEER.
12. COMPLETE ALL MISCELLANEOUS CONSTRUCTION INCLUDING ALL CLEAN-UP AND FINAL RESTORATION.
13. REMOVE ALL TRAFFIC CONTROL DEVICES. REMOVE MISS DIG FLAGS.



**PROJECT MANAGEMENT SERVICES UNIT**  
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

PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR

2016 ANNUAL RESURFACING

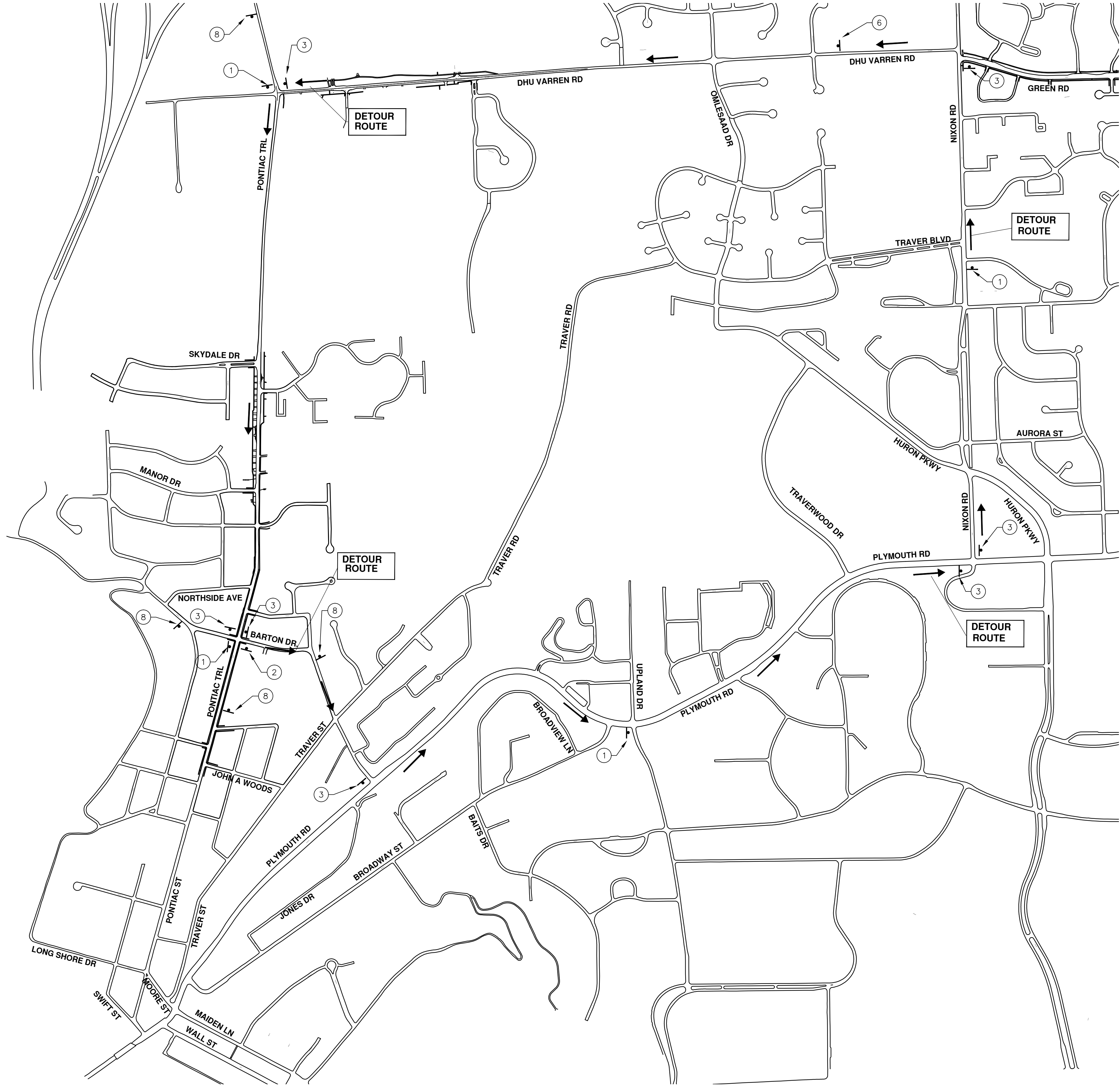
DHU VARREN

PROJECT DESCRIPTION

DRAWING No. 2016004-25

SHEET No. 25 OF 97

TRAFFIC CONTROL SIGN		
TAG	SIGN	NUM.
①		D3-1 M4-9S 30x24
②		D3-1 M4-9R 30x24
③		D3-1 M4-9L 30x24
⑥		D3-1 M4-8a 24x18
⑧		SPECIAL 48x60



**PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR**

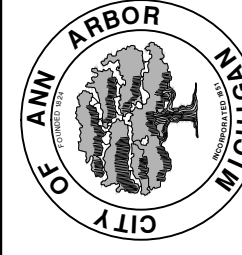
**2016 ANNUAL RESURFACING**

DHU VARREN  
DETOUR

SCALE: N.T.S.

DRAWING No. 2016004-26

SHEET No. 26 OF 97

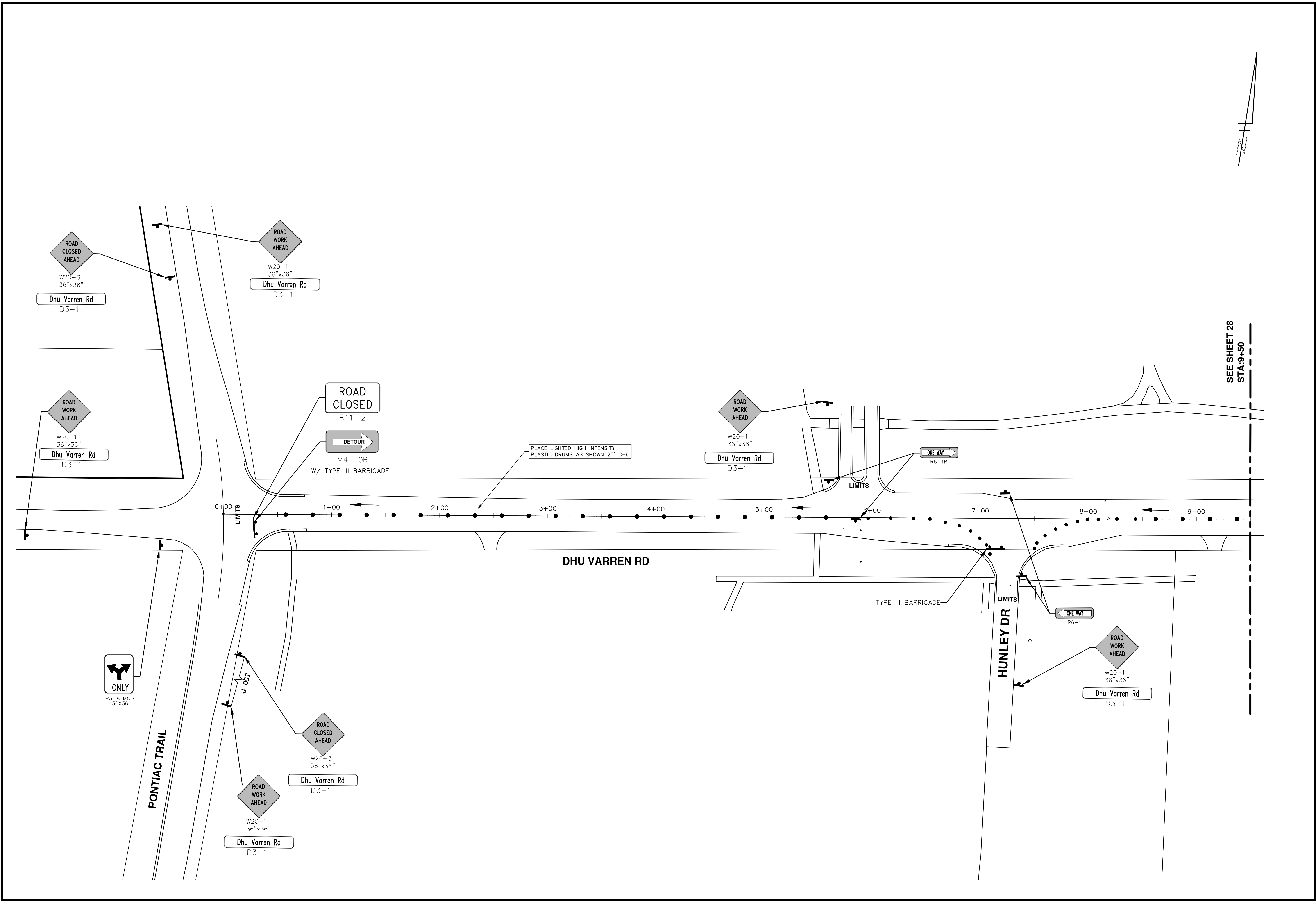


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REV.	DATE	DESCRIPTION
00	2-22-2016	BID SET
		SS AH JK
		DAD

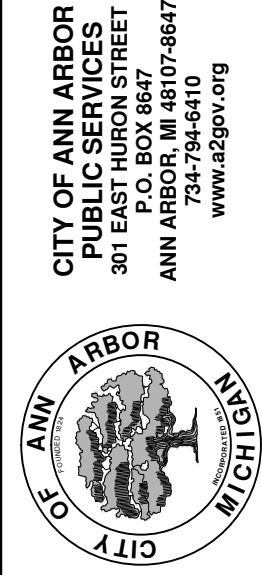
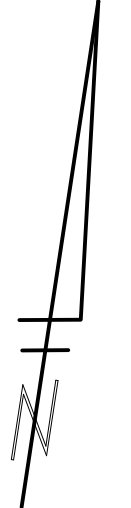
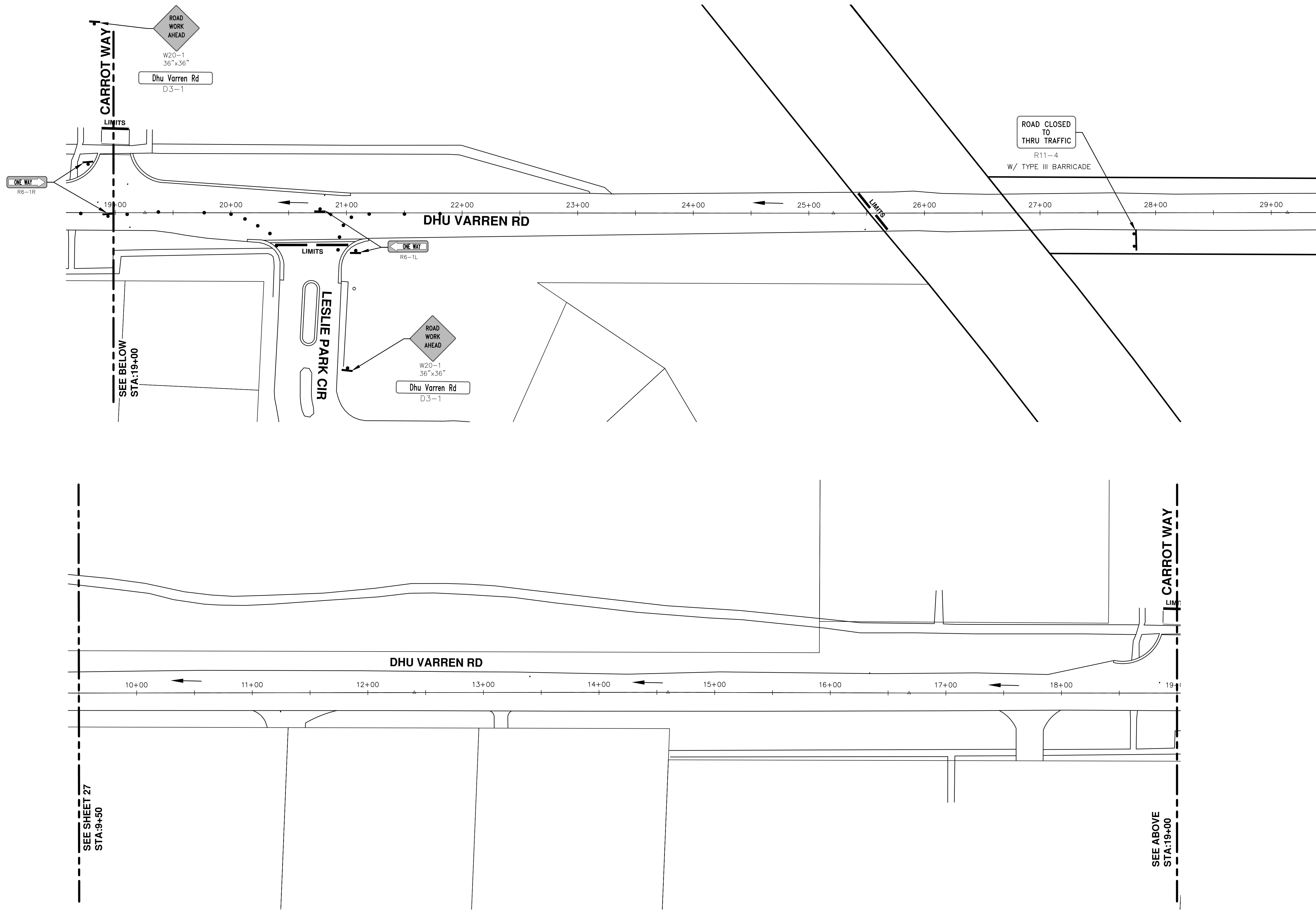
811  
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<p><b>PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR</b></p> <p>2016 ANNUAL RESURFACING</p> <p>DHU VARREN</p> <p>TRAFFIC CONTROL</p>	<p>City of Ann Arbor Public Services 301 East Huron Street Ann Arbor, MI 48106-8647 www.a2gov.org</p>										
<p>SCALE PLAN: 1" = 40'</p> <p>DRAWING No. 2016004-27</p>	<p>DATE: 2-22-2016</p> <p>DESCRIPTION:</p>										
<p>SHEET No. 27 OF 97</p>	<p>REV.:</p> <table border="1"> <tr> <th>REV.</th> <th>DATE</th> <th>DESCRIPTION</th> <th>DRAWN</th> <th>CHECKED</th> </tr> <tr> <td>00</td> <td>2-22-2016</td> <td></td> <td>SS AH JK</td> <td>DAD</td> </tr> </table>	REV.	DATE	DESCRIPTION	DRAWN	CHECKED	00	2-22-2016		SS AH JK	DAD
REV.	DATE	DESCRIPTION	DRAWN	CHECKED							
00	2-22-2016		SS AH JK	DAD							

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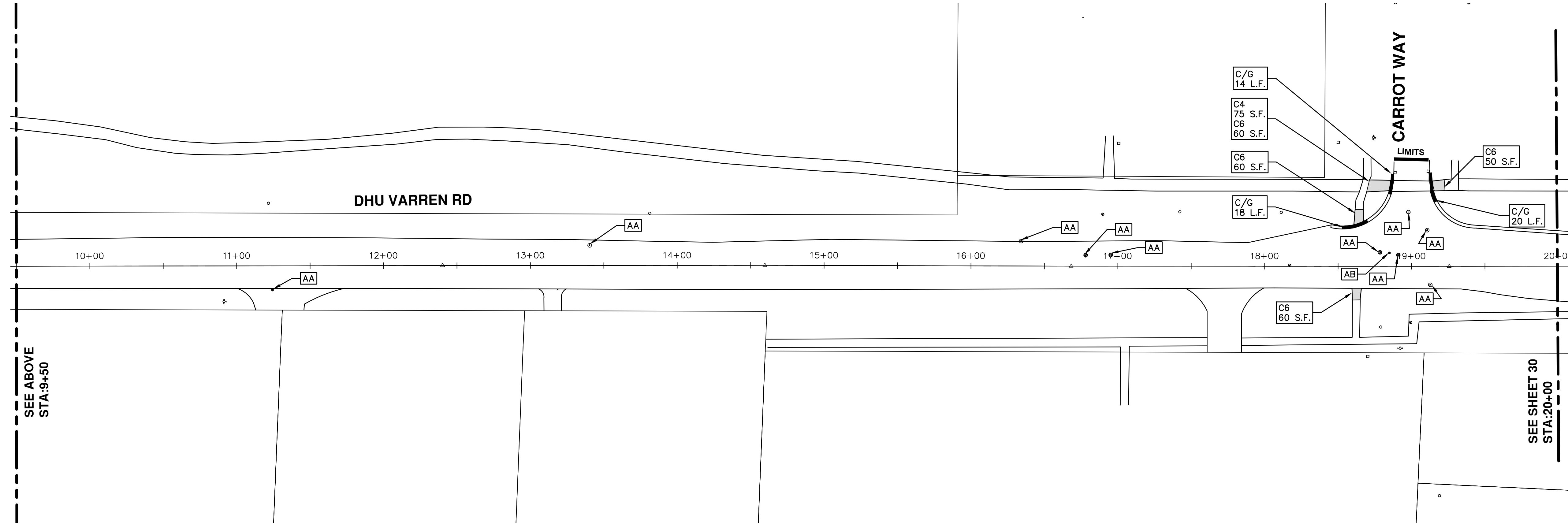
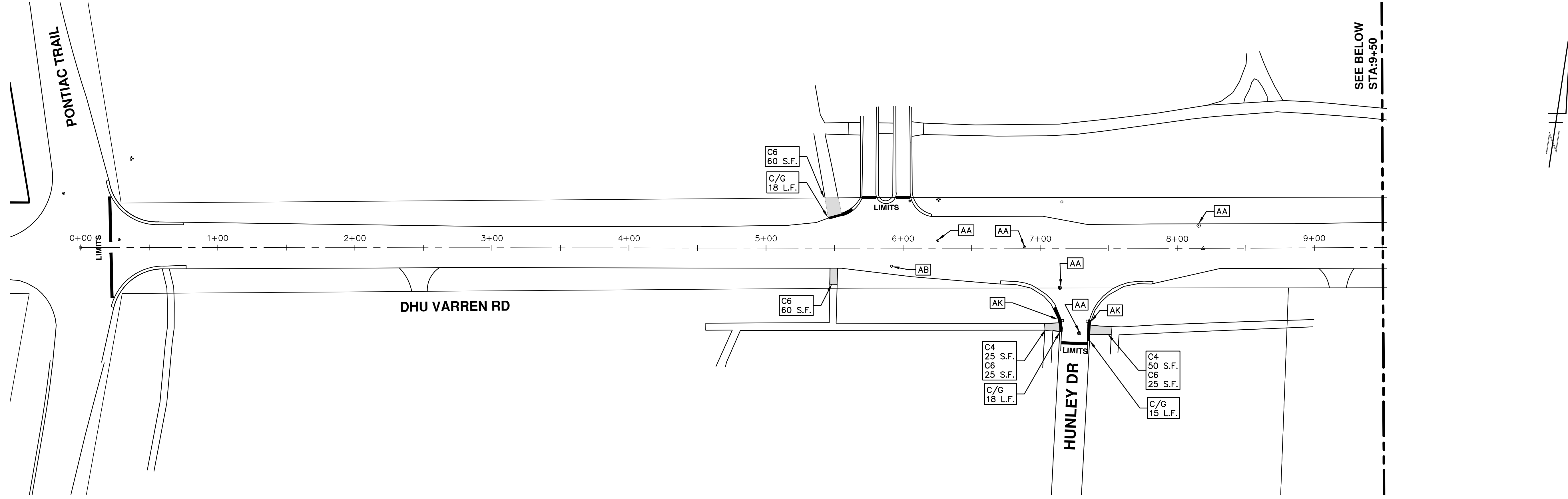


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REV.	DESCRIPTION	DATE	DRAWN	CHECKED
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**PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR**

2016 ANNUAL RESURFACING

DHU VARREN  
RESURFACING

SCALE PLAN: 1" = 40'

DRAWING No. 2016004-29

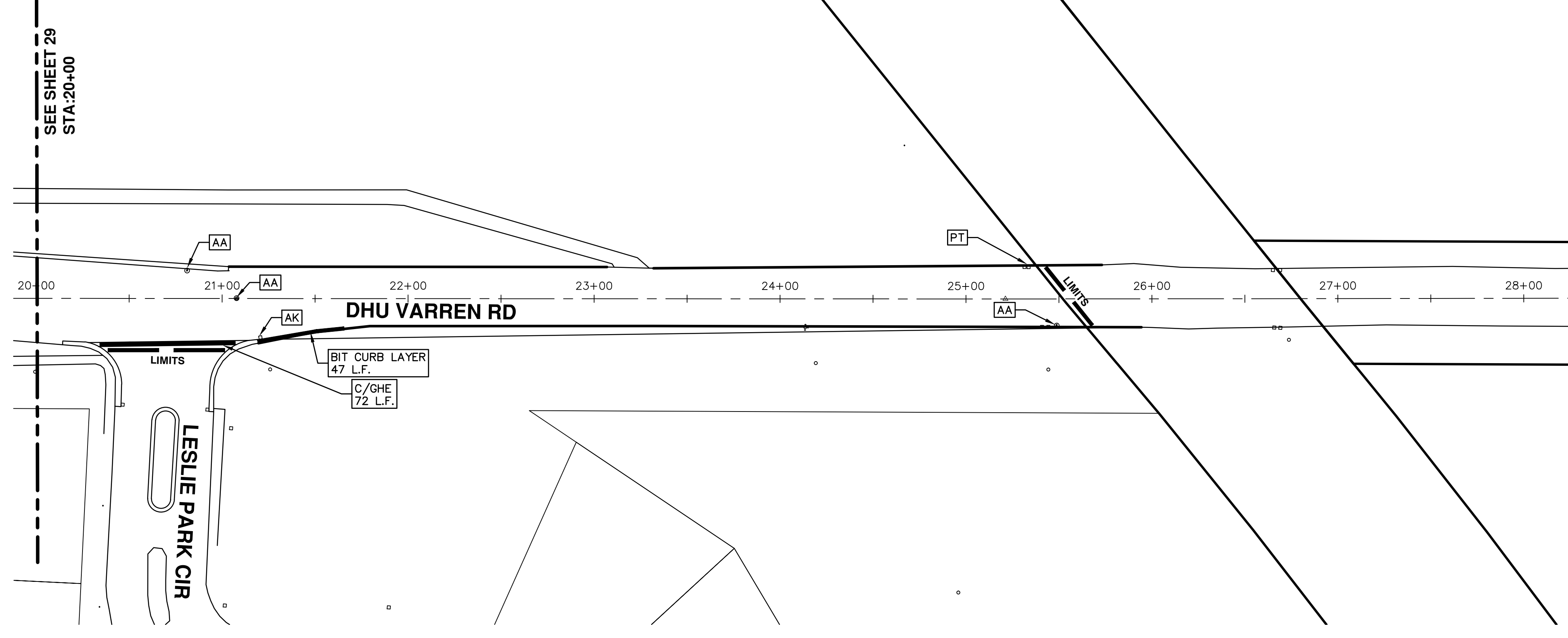
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00	BID SET	2-22-2016	GS AH JK	DAD

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CITY OF ANN ARBOR  
MICHIGAN

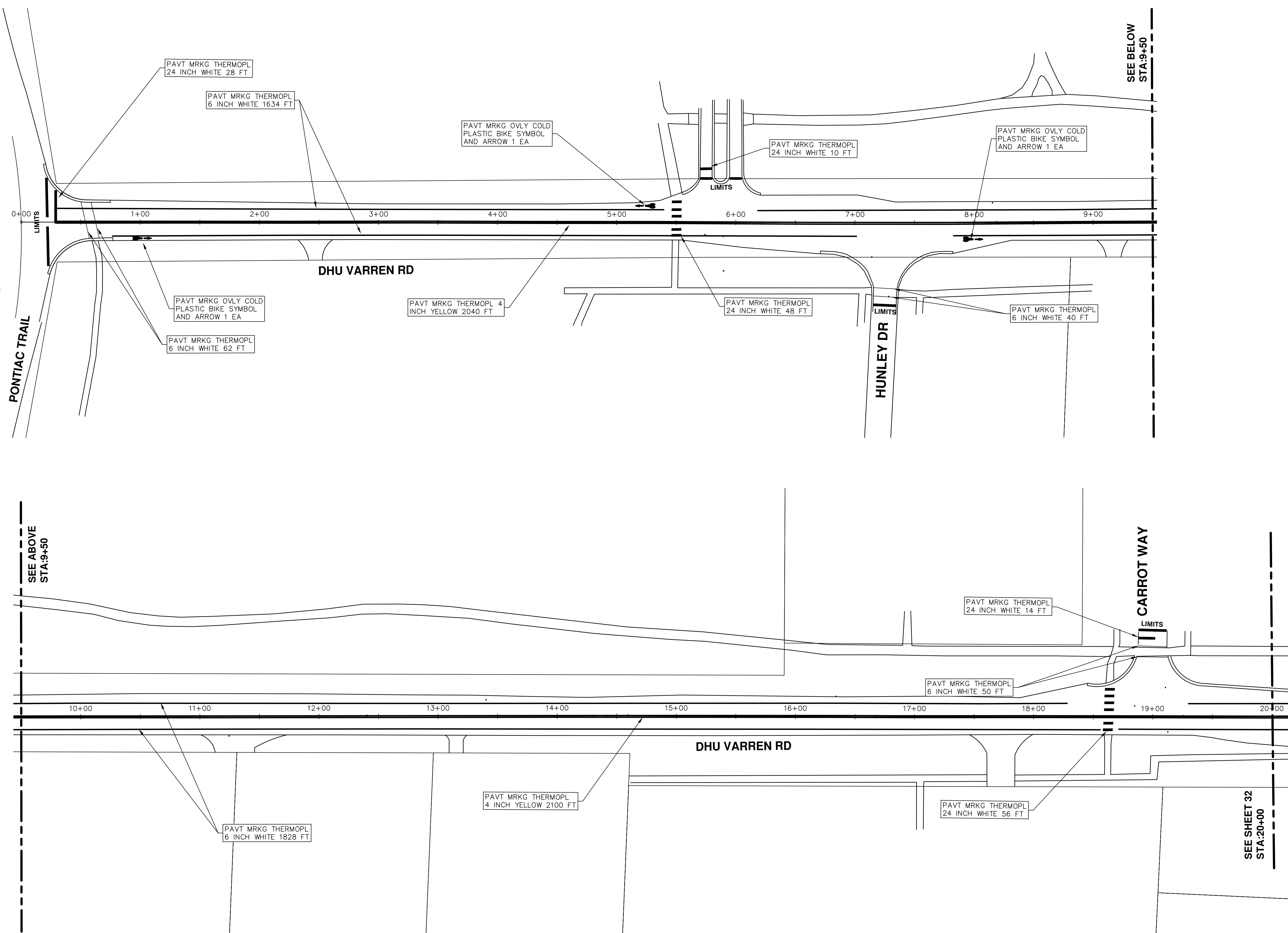
SHEET No. 29 OF 97



REV.	DESCRIPTION	DATE	DRAWN	CHECKED
00	BID SET	2-22-2016	SS AH JK	DAD

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**PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR**  
 2016 ANNUAL RESURFACING  
 DHU VARREN  
 PAVEMENT MARKINGS

SCALE PLAN: 1" = 40'

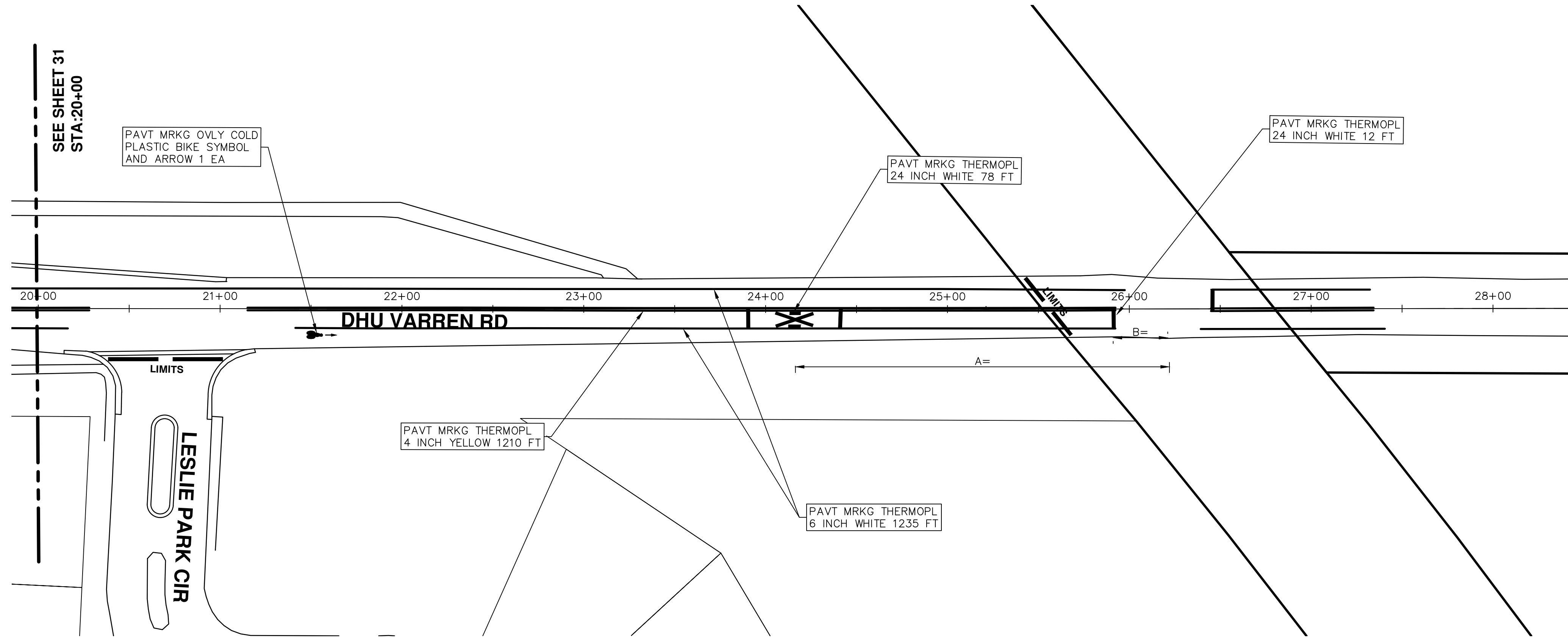
DRAWING No. 2016004-31

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REV.	DESCRIPTION	DATE	DRAWN	CHECKED
00	BID SET	2-22-2016	GS AH JK	DAD

SHEET No. 31 OF 97



**DESIGN SPEED**

**NOTES:**

A= 125' @ 40MPH 175' @ 45MPH FOR R.R. SYMBOL/LEGEND  
 B= 15' TYPICAL FOR STOP BAR

Measured from closest rail road track.



REV.	DESCRIPTION	DATE	DRAWN	CHECKED
00	BID SET	2-22-2016	SS AH JK	DAD

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**PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR**  
**2016 ANNUAL RESURFACING**  
 DHU VARREN  
 PAVEMENT MARKINGS

SCALE PLAN: 1" = 40'  
 DRAWING No. 2016004-32





# CITY OF ANN ARBOR PROJECT MANAGEMENT 2016 ANNUAL RESURFACING PROJECT LOCATION: GREEN RD

ITB No. 4422 FILE No. 2016004



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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
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240	4" Sidewalk or Ramp	S.F.	0
241	6" Drive, Sidewalk or Ramp	S.F.	300
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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
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2	W20-3	"ROAD CLOSED AHEAD"
3	D3-1	CONVENTIONAL GUIDE
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CONSTRUCTION KEY	
KEY	DESCRIPTION
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AA	ADJUST MDOT TYPE A CASTINGS.
AB	ADJUST GATE VALVE BOX OR MONUMENT BOX.
ADST	ADDITIONAL DEPTH STRUCTURE REPAIR.
RRA	REMOVE AND REPLACE MDOT TYPE A CASTING ADJUST TO FINISH GRADE.
CPRHE	CONCRETE PAVEMENT REPAIR, H.E.
DS	CONSTRUCT 2, 3 OR 4' DIAM. DRAINAGE STRUCTURE.
PT	POINT STRUCTURE.
C4	REMOVE EXISTING RAMP OR SIDEWALK, REPLACE WITH 4" SIDEWALK OR RAMP.
C6	REMOVE EXISTING RAMP OR SIDEWALK, REPLACE WITH 6" SIDEWALK OR RAMP.
C8	PLACE 8" SIDEWALK OR RAMP ONLY
C HE	REMOVE EXISTING DRIVE APPROACH, RAMP OR SIDEWALK. REPLACE WITH 6" OR 8" APPROACH, RAMP,OR SIDEWALK, H.E.
CP	PLACE 4" SIDEWALK OR RAMP.
AK	ADJUST MDOT TYPE K CASTING.
TYPE II	MDOT TYPE II BARRICADE.
TYPE III	MDOT TYPE III BARRICADE.
RRK	REMOVE AND REPLACE MDOT TYPE K CASTING. ADJUST TO FINISH GRADE.
RS	RECONSTRUCT STRUCTURE.
RCP	REMOVE CONC. PAVEMENT - ANY THICKNESS
RCW	RAISED CROSSWALK

LEGEND	
SYMBOL	DESCRIPTION
⊙	EXISTING SANITARY SEWER MANHOLE
⊙	EXISTING STORM SEWER MANHOLE
⊗	EXISTING WATER MAIN VALVE IN WELL
+	WATER MAIN GATE VALVE IN BOX
⊕	FIRE HYDRANT
⊙	MICHCON GAS CO. VALVE BOX/WELL
⊙	AMERITECH TELEPHONE VAULT
⊙	ELECTRIC MANHOLE
⊕	SOIL BORING
□	EXISTING STORM SEWER INLET
⊠	MONUMENT BOX
■	REMOVE AND REPLACE CONC. SIDEWALK
■	PLACE CONCRETE SIDEWALK
—	REMOVE & REPLACE CONC. CURB & GUTTER
---	CONSTRUCTION LIMITS
---	6" WRAPPED UNDERDRAIN
▨	REMOVE CONCRETE SIDEWALK
▨	SUBGRADE UNDERCUT

### 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 1.5 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. ADJUST ALL STRUCTURE COVERS, MONUMENT BOXES,AND VALVE BOXES TO THEIR FINISHED ELEVATIONS.
10. PAVE 1.5 INCH OF THE BITUMINOUS MIX AS SPECIFIED OR DIRECTED, AS THE WEARING COURSE, IN ONE LIFT.
11. COMPLETE ALL PAVEMENT MARKINGS IN ACCORDANCE WITH THE PLANS, AND AS DIRECTED BY THE ENGINEER.
12. COMPLETE ALL MISCELLANEOUS CONSTRUCTION INCLUDING ALL CLEAN-UP AND FINAL RESTORATION.
13. 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 CONSTRUCTION COVERED BY THESE PLANS SHALL CONFORM TO THE 1994 EDITION OF THE CITY OF ANN ARBOR PUBLIC SERVICES DEPARTMENT STANDARD SPECIFICATIONS, IT'S DETAILS, WHICH ARE INCLUDED BY REFERENCE, AND THIS PROJECT'S CONTRACT DOCUMENTS. THE OMISSION OF ANY CURRENT STANDARD DETAIL DOES NOT RELIEVE THE CONTRACTOR FROM THIS REQUIREMENT.



**PROJECT MANAGEMENT SERVICES UNIT**  
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734-794-6410 www.a2gov.org

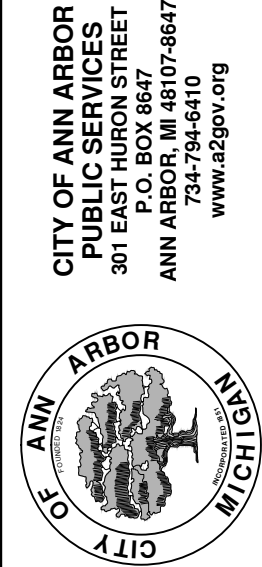
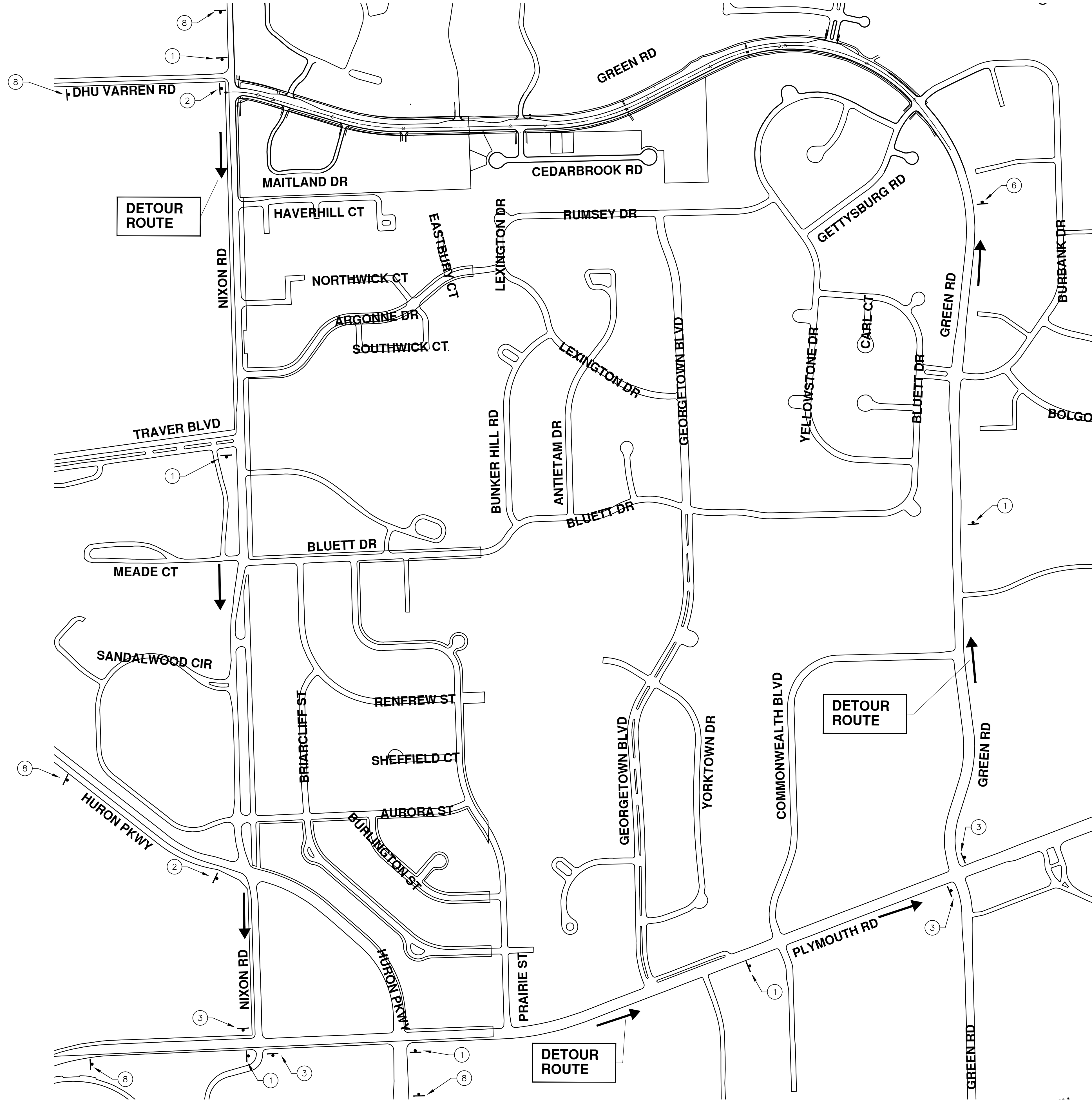
PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR

2016 ANNUAL RESURFACING

GREEN RD

DRAWING No. 2016004-33  
SHEET No. 33 OF 97

TRAFFIC CONTROL SIGN		
TAG	SIGN	NUM.
①		D3-1 M4-9S 30x24
②		D3-1 M4-9R 30x24
③		D3-1 M4-9L 30x24
⑥		D3-1 M4-8a 24x18
⑧		SPECIAL 48x60

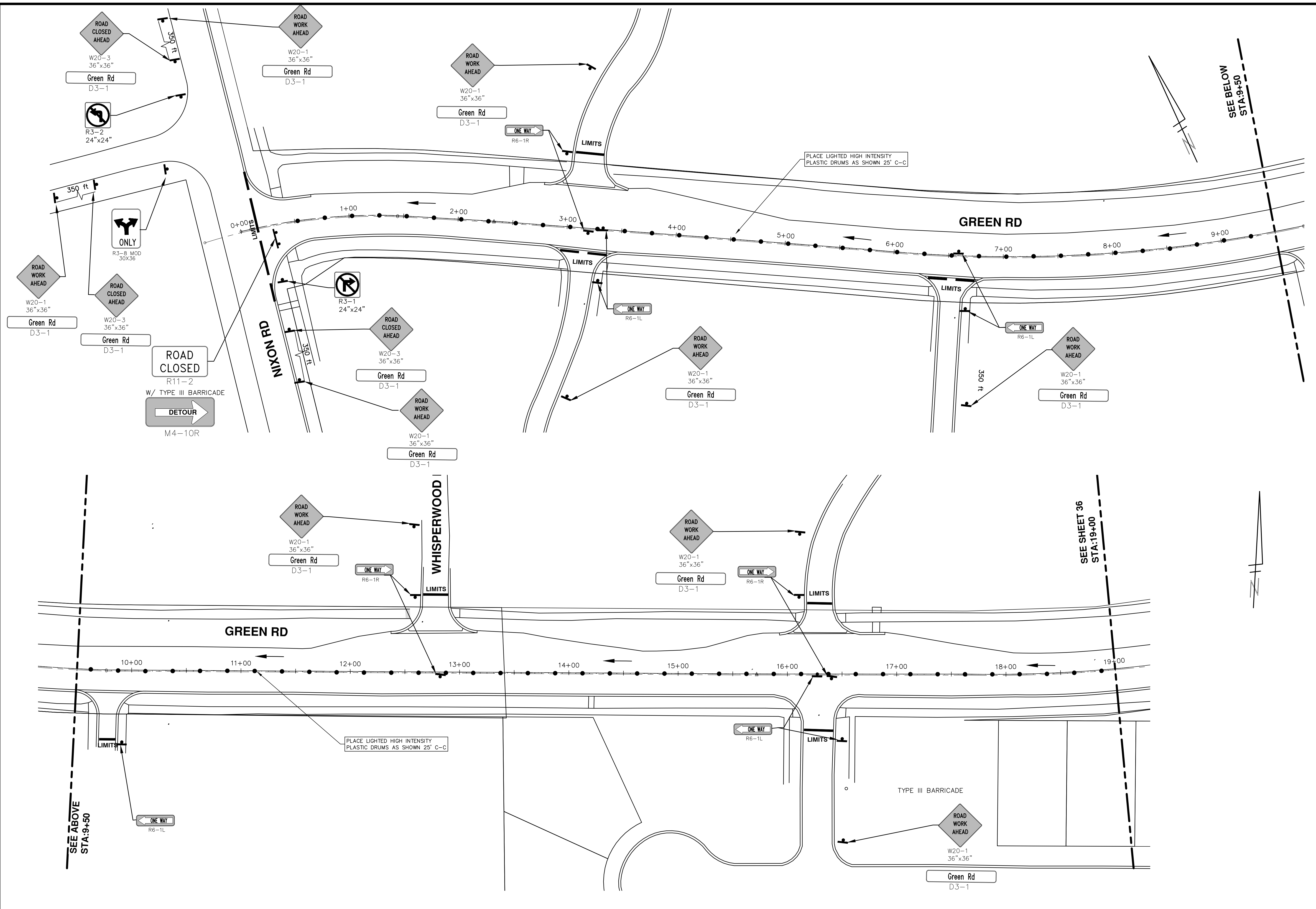


**PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR**  
**2016 ANNUAL RESURFACING**  
 GREEN RD  
 DETOUR

SCALE PLAN: Custom  
 DRAWING No. 2016004-34

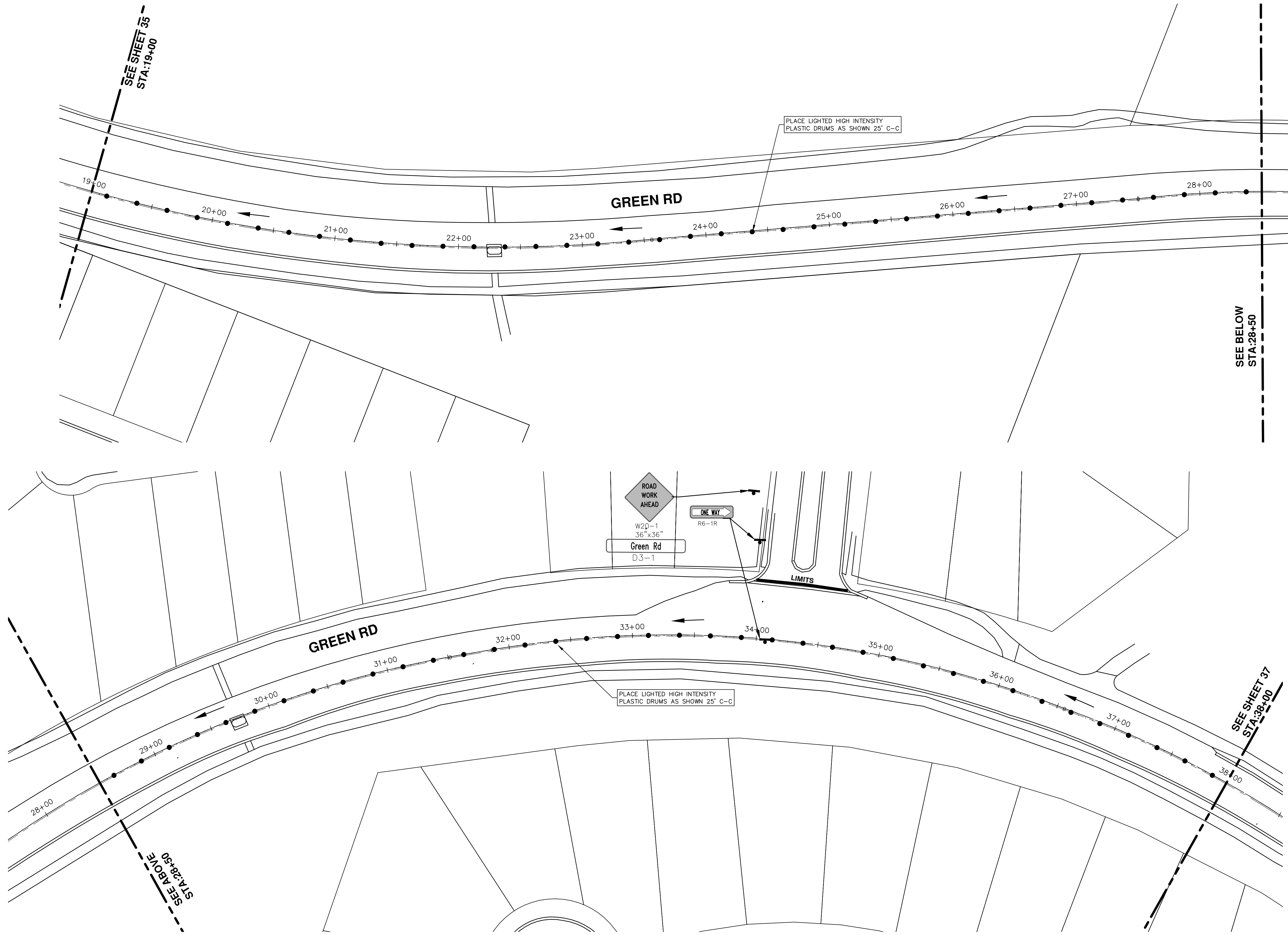
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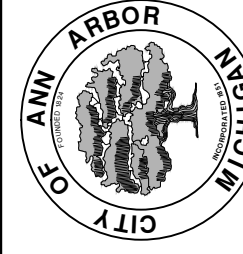
<p><b>PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR</b>  <b>2016 ANNUAL RESURFACING</b>          GREEN RD          TRAFFIC CONTROL</p>	<p>SCALE PLAN: 1" = 40'          DRAWING No. 2016004-35</p>
<p>CITY OF ANN ARBOR          PUBLIC SERVICES          301 EAST HURON STREET          ANN ARBOR, MI 48106-0667          ANN ARBOR: 734/794-4410          www.a2gov.org</p>	<p>REV. 00          BID SET 2-22-2016          DATE 2-22-2016          DRAWN DAD          CHECKED DAD</p>
<p>DESCRIPTION</p>	<p>811          Know what's below.          Call before you dig.</p>

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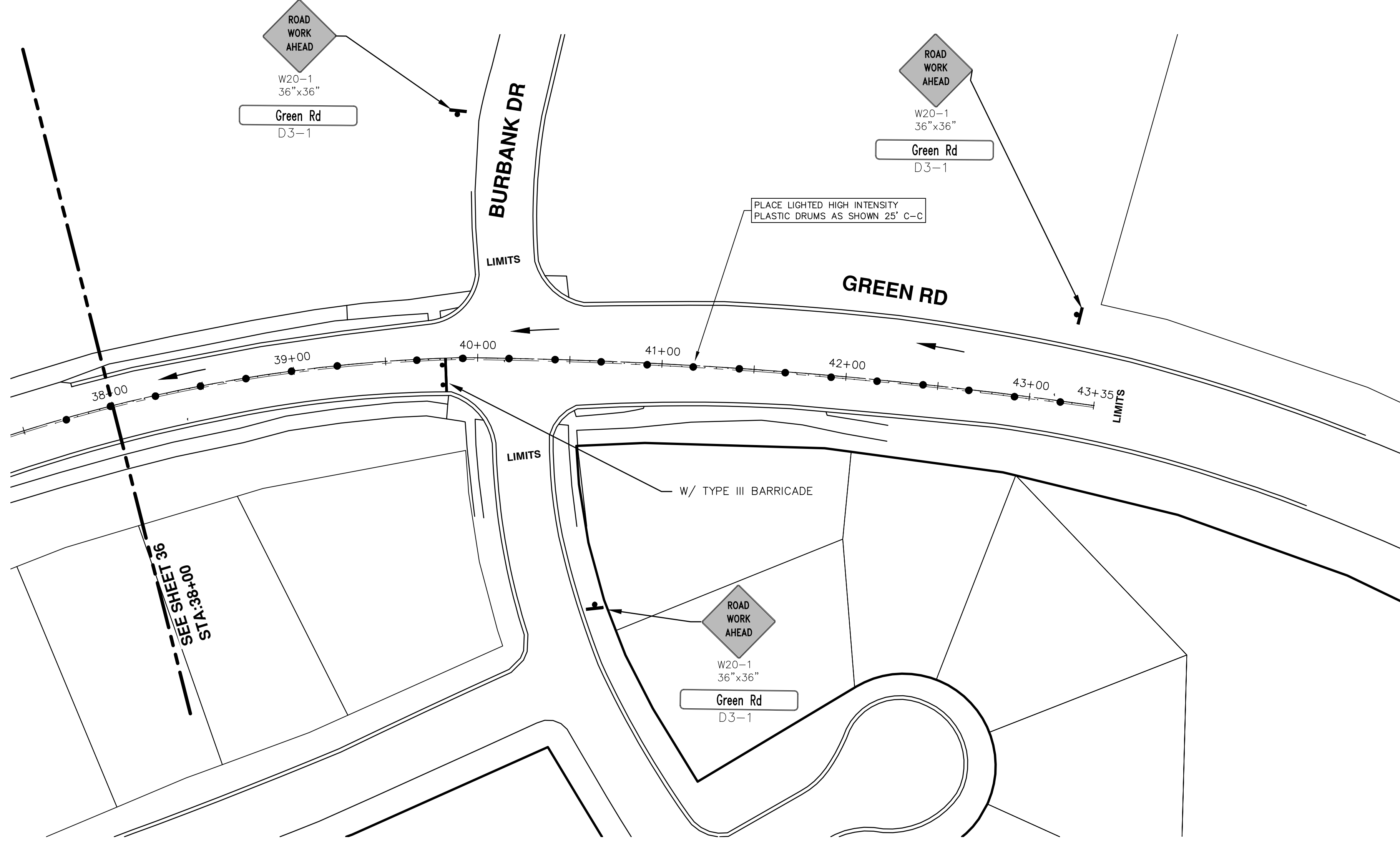
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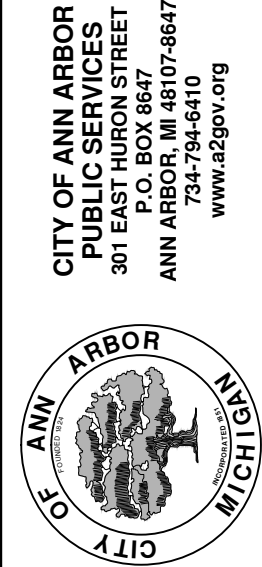
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**2016 ANNUAL RESURFACING**  
GREEN RD  
TRAFFIC CONTROL

SCALE PLAN: 1" = 40'  
DRAWING No. 2016004-36



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**2016 ANNUAL RESURFACING**  
 GREEN RD  
 TRAFFIC CONTROL

SCALE PLAN: 1" = 40'  
 DRAWING No. 2016004-37

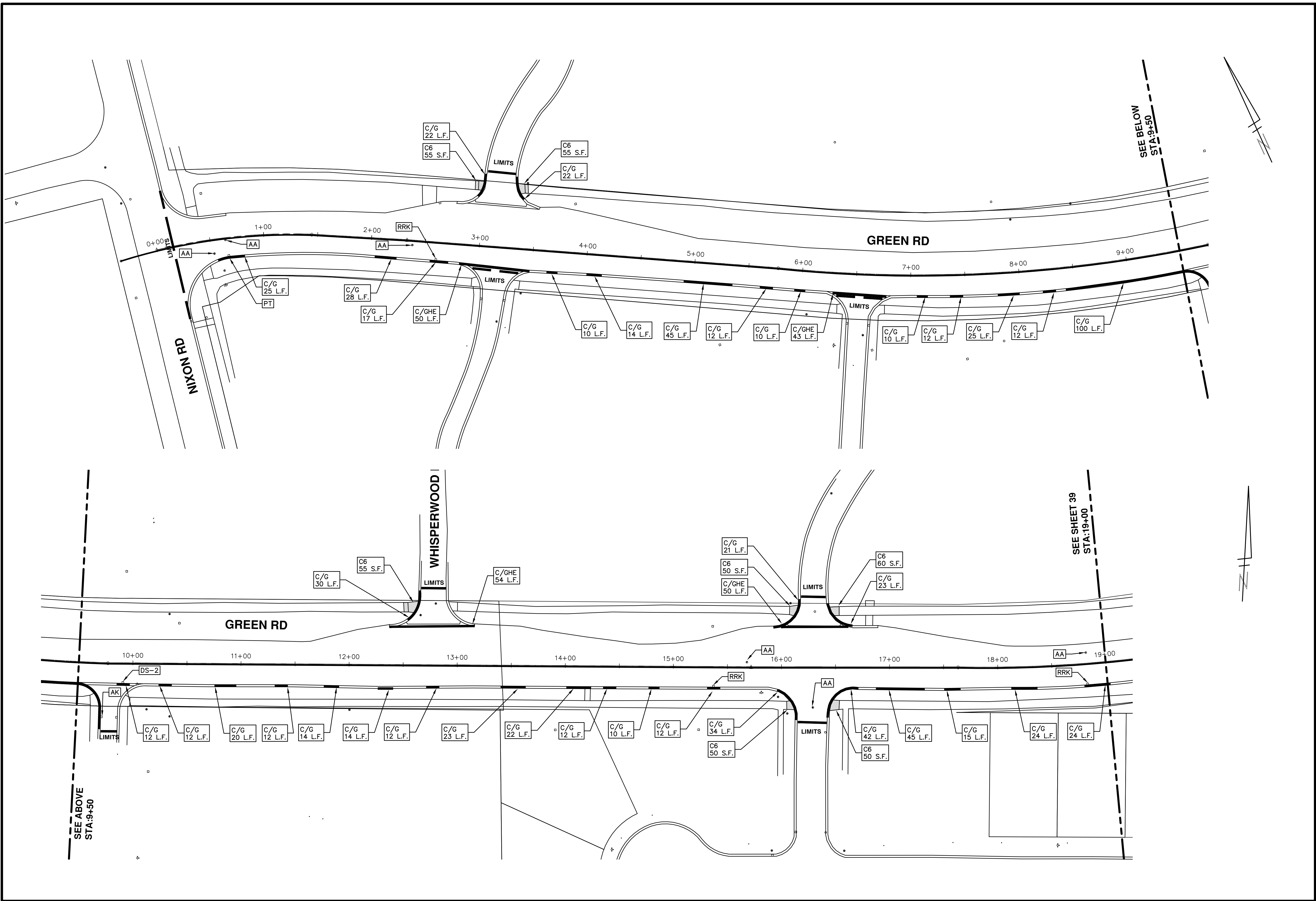


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 2016 ANNUAL RESURFACING  
 GREEN RD  
 RESURFACING

SCALE PLAN: 1" = 40'  
 DRAWING No. 2016004-38

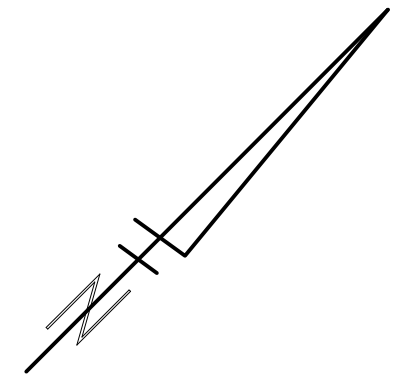
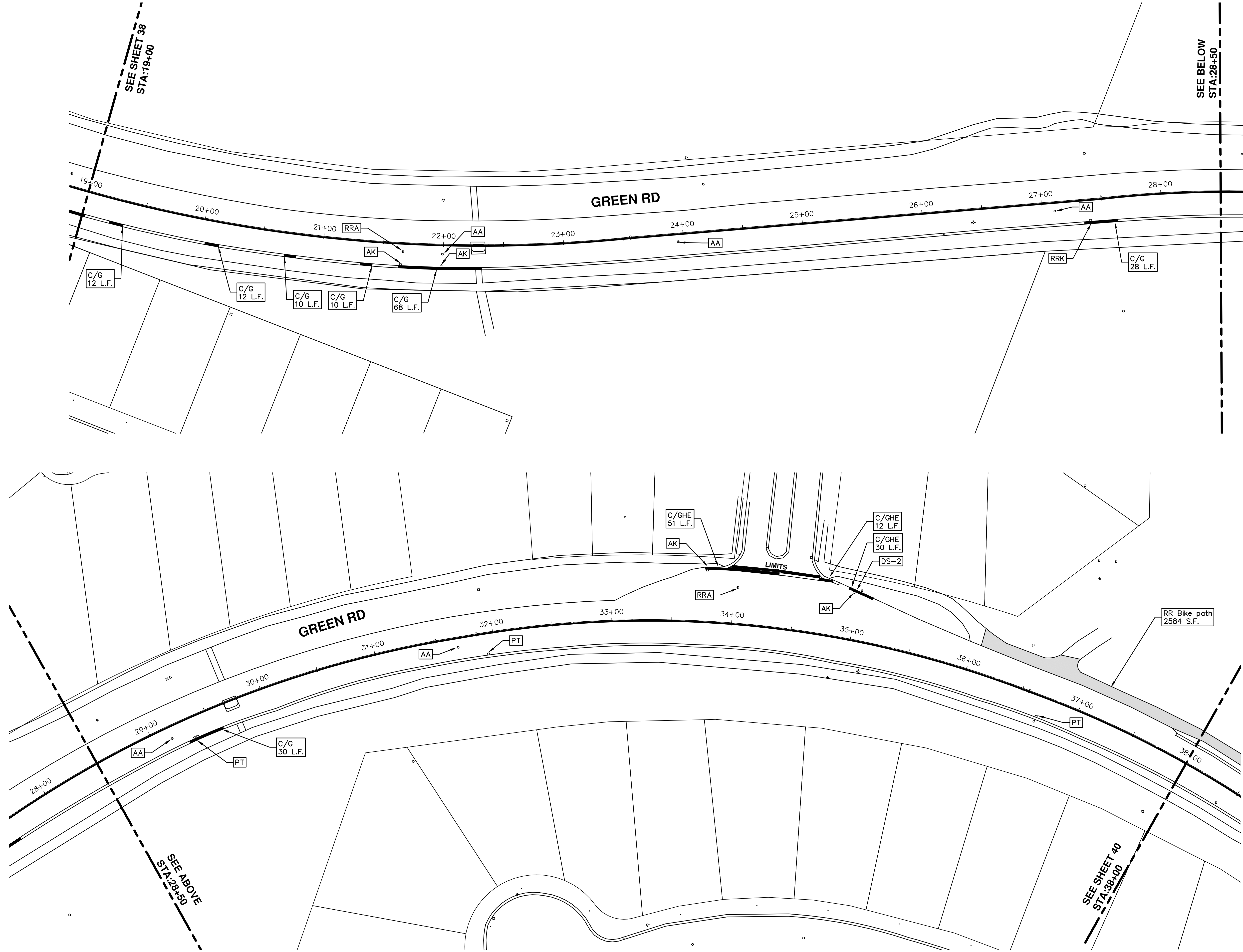
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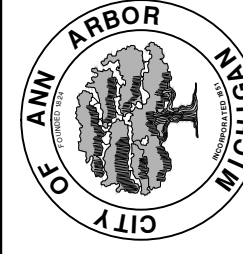
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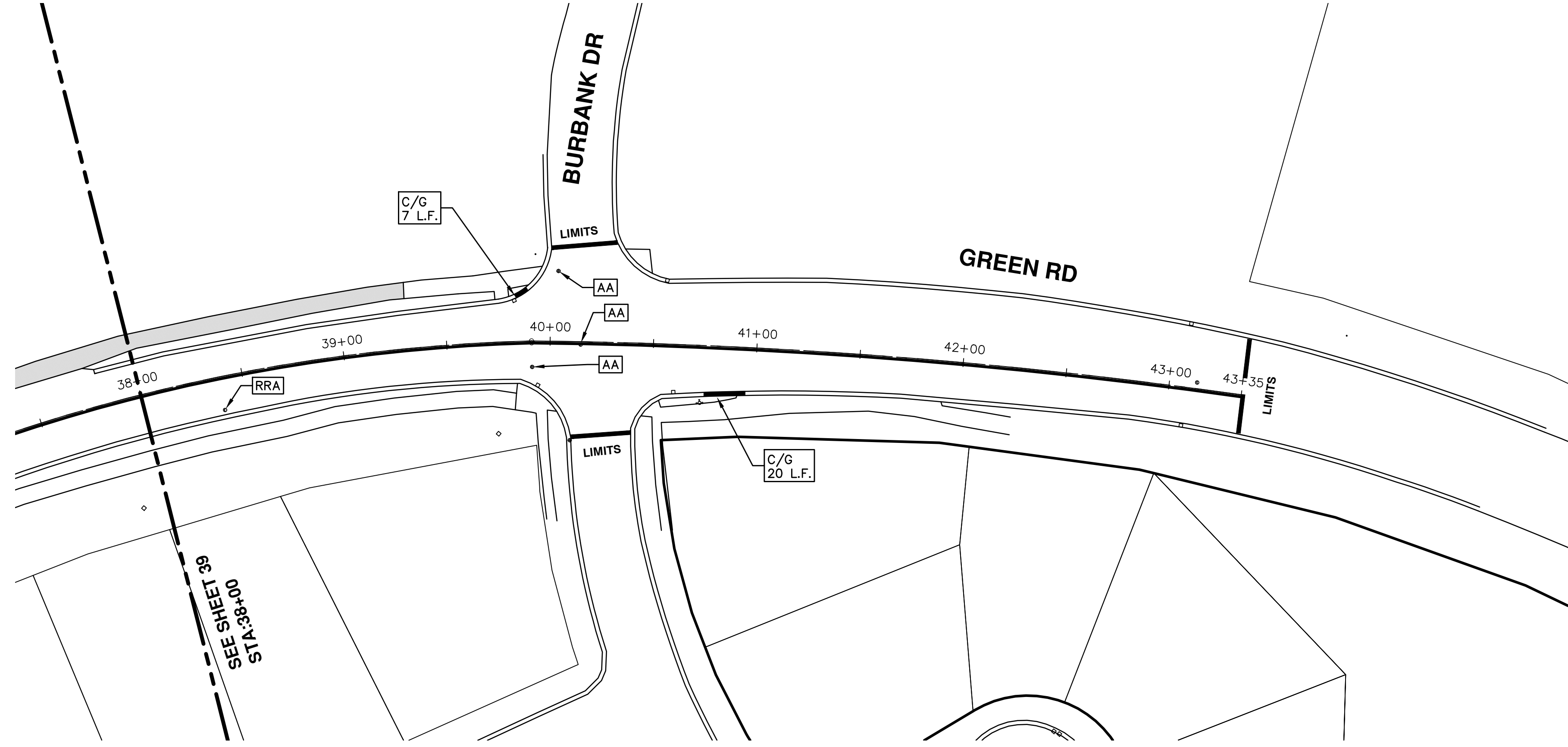
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**PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR**  
**2016 ANNUAL RESURFACING**  
GREEN RD  
RESURFACING

SCALE PLAN: 1" = 40'  
DRAWING No. 2016004-39



SEE SHEET 39  
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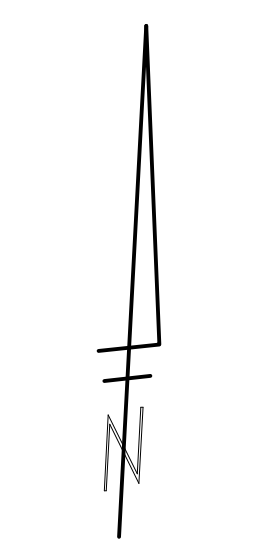
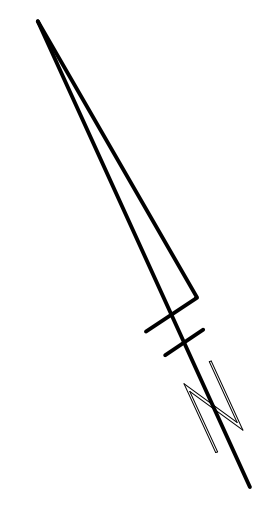
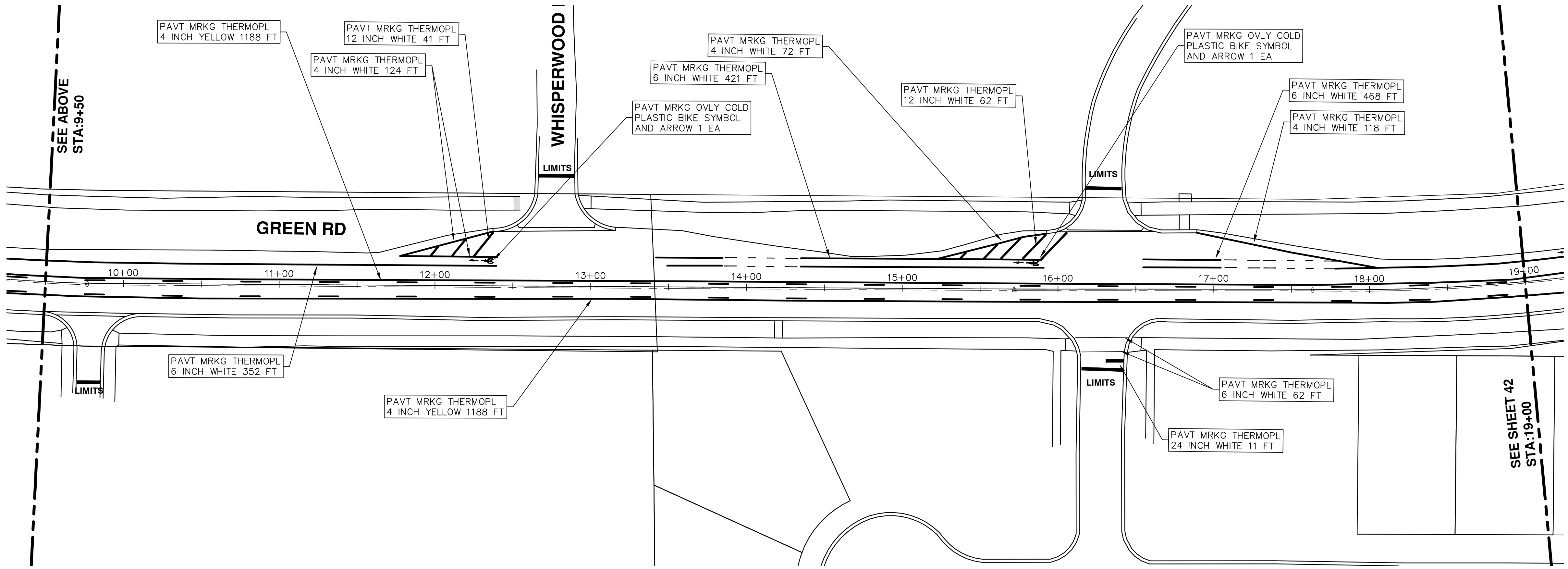
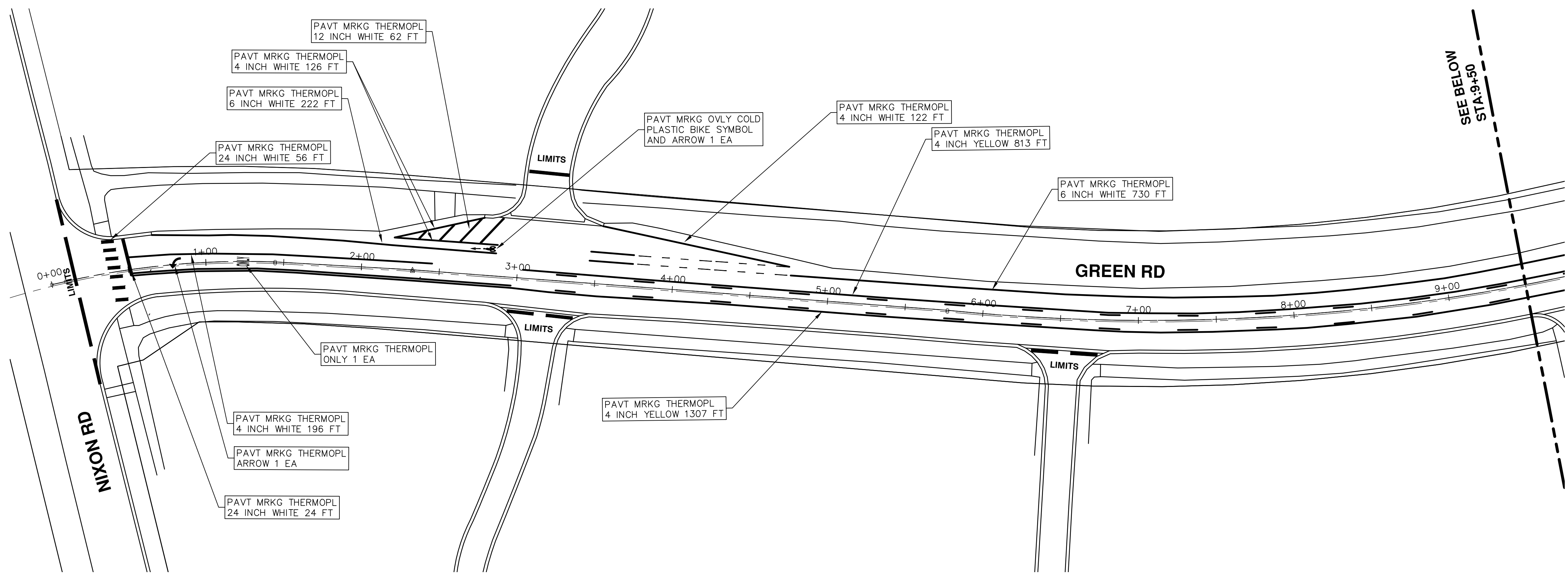
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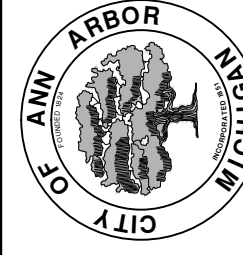

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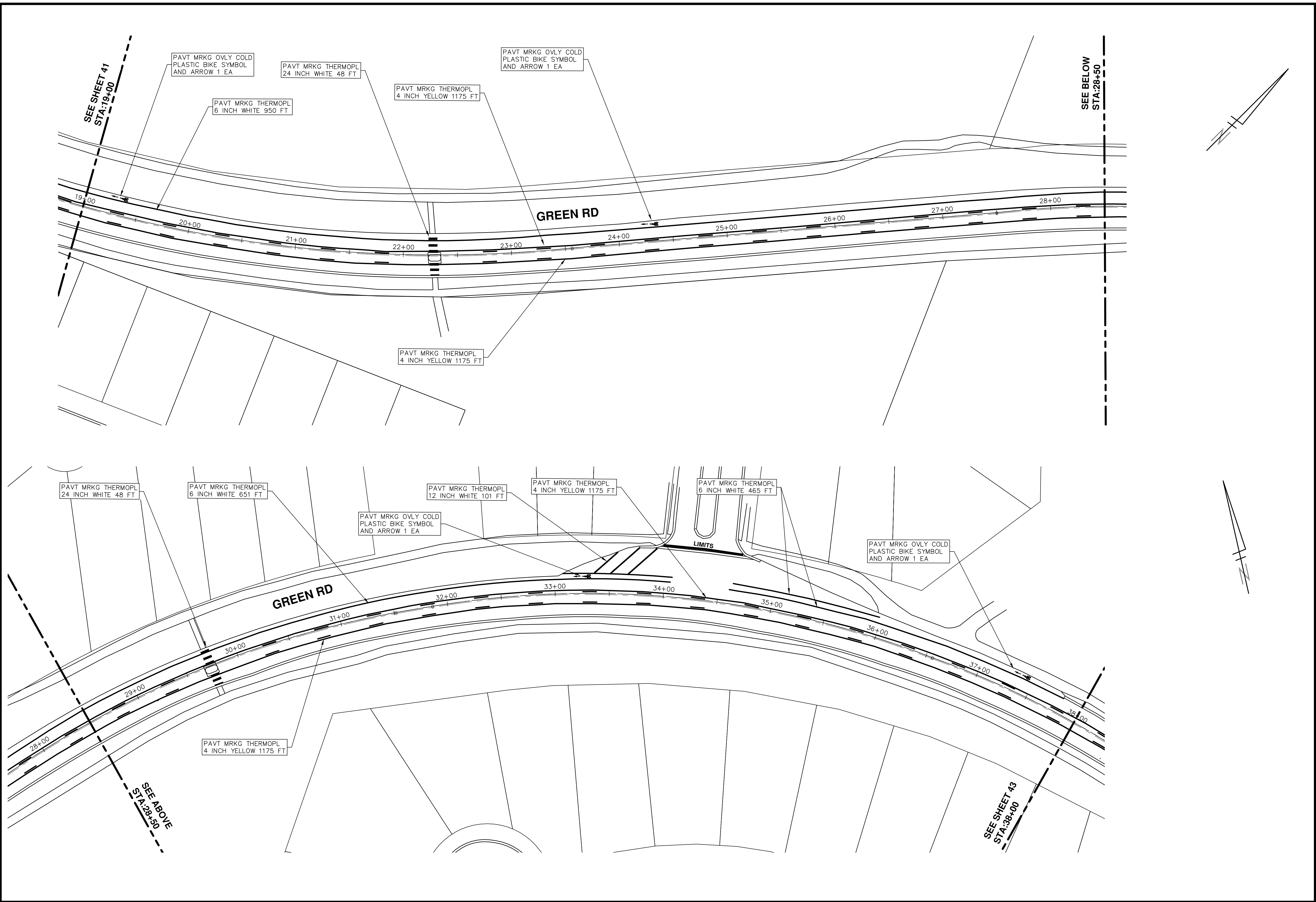


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<b>PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR</b> <b>2016 ANNUAL RESURFACING</b> GREEN RD PAVEMENT MARKINGS				
SCALE PLAN: 1" = 40' 		DRAWING No. <b>2016004-41</b>		
SHEET No. <b>41 OF 97</b>				

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**PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR**

**2016 ANNUAL RESURFACING**

**GREEN RD**

**PAVEMENT MARKINGS**

SCALE PLAN: 1" = 40'

DRAWING No. **2016004-42**

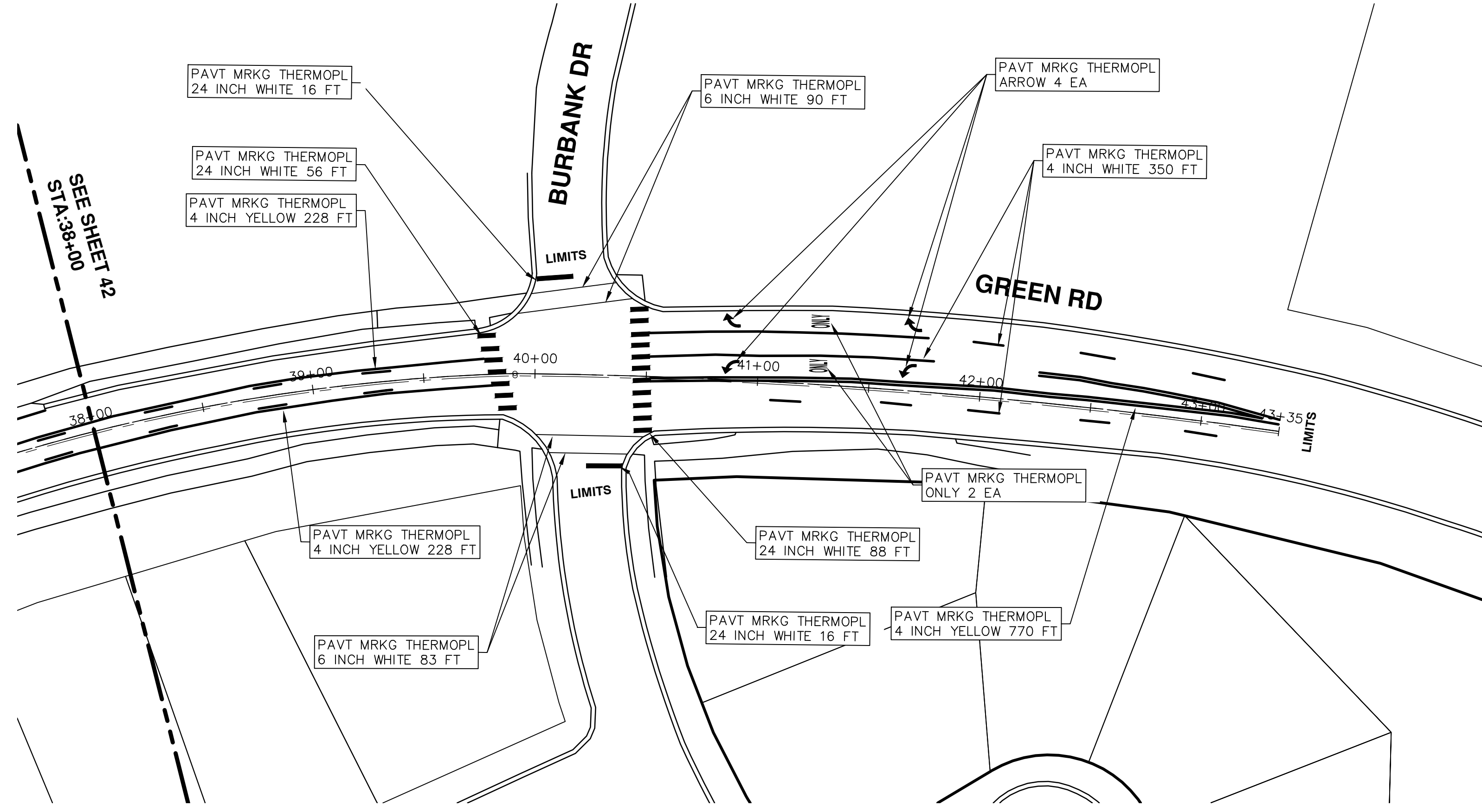
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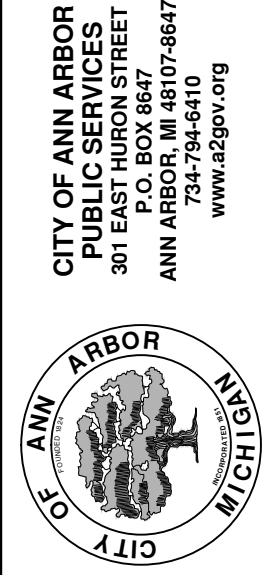
CITY OF ANN ARBOR MICHIGAN

SHEET No. **42 OF 97**



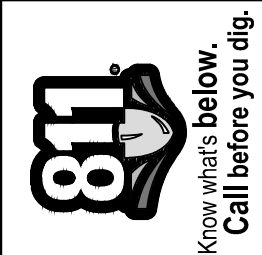
PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR  
 SCALE PLAN: 1" = 40'  
 DRAWING No. 2016004-43

2016 ANNUAL RESURFACING  
 GREEN RD  
 PAVEMENT MARKINGS



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REV.	DESCRIPTION	DATE	DRAWN	CHECKED
00	BID SET	2-22-2016	SS AH JK	DAD





# CITY OF ANN ARBOR PROJECT MANAGEMENT 2016 ANNUAL RESURFACING PROJECT LOCATION: PONTIAC TRAIL

ITB No. 4422 FILE No. 2016004



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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	DESCRIPTION
C/G	REMOVE AND REPLACE CURB AND GUTTER
C/GHE	REMOVE CURB AND GUTTER, REPLACE WITH CONCRETE CURB AND GUTTER H.E.
C4HE	REMOVE EXISTING RAMP OR SIDEWALK. REPLACE WITH 4" SIDEWALK OR TYPE 1 SIDEWALK RAMP,H.E.
CR	REMOVE SIDEWALK, DRIVE OR RAMP.
AA	ADJUST MDOT TYPE A CASTINGS.
AB	ADJUST GATE VALVE BOX OR MONUMENT BOX.
ADST	ADDITIONAL DEPTH STRUCTURE REPAIR.
RRA	REMOVE AND REPLACE MDOT TYPE A CASTING ADJUST TO FINISH GRADE.
CPRHE	CONCRETE PAVEMENT REPAIR, H.E.
DS	CONSTRUCT 2, 3 OR 4' DIAM. DRAINAGE STRUCTURE.
PT	POINT STRUCTURE.
C4	REMOVE EXISTING RAMP OR SIDEWALK, REPLACE WITH 4" SIDEWALK OR RAMP.
C6	REMOVE EXISTING RAMP OR SIDEWALK, REPLACE WITH 6" SIDEWALK OR RAMP.
C8	PLACE 8" SIDEWALK OR RAMP ONLY
C HE	REMOVE EXISTING DRIVE APPROACH, RAMP OR SIDEWALK. REPLACE WITH 6" OR 8" APPROACH, RAMP,OR SIDEWALK, H.E.
CP	PLACE 4" SIDEWALK OR RAMP.
AK	ADJUST MDOT TYPE K CASTING.
TYPE II	MDOT TYPE II BARRICADE.
TYPE III	MDOT TYPE III BARRICADE.
RRK	REMOVE AND REPLACE MDOT TYPE K CASTING. ADJUST TO FINISH GRADE.
RS	RECONSTRUCT STRUCTURE.
RCP	REMOVE CONC. PAVEMENT - ANY THICKNESS
RCW	RAISED CROSSWALK

LEGEND	
SYMBOL	DESCRIPTION
⊙	EXISTING SANITARY SEWER MANHOLE
⊙	EXISTING STORM SEWER MANHOLE
⊗	EXISTING WATER MAIN VALVE IN WELL
+	WATER MAIN GATE VALVE IN BOX
⊕	FIRE HYDRANT
⊙	MICHCON GAS CO. VALVE BOX/WELL
⊙	AMERITECH TELEPHONE VAULT
⊙	ELECTRIC MANHOLE
⊕	SOIL BORING
□	EXISTING STORM SEWER INLET
⊠	MONUMENT BOX
▬	REMOVE AND REPLACE CONC. SIDEWALK
▬	PLACE CONCRETE SIDEWALK
▬	REMOVE & REPLACE CONC. CURB & GUTTER
---	CONSTRUCTION LIMITS
---	6" WRAPPED UNDERDRAIN
▨	REMOVE CONCRETE SIDEWALK
▨	SUBGRADE UNDERCUT

### 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 1.5 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. ADJUST ALL STRUCTURE COVERS, MONUMENT BOXES,AND VALVE BOXES TO THEIR FINISHED ELEVATIONS.
10. PAVE 1.5 INCH OF THE BITUMINOUS MIX AS SPECIFIED OR DIRECTED, AS THE WEARING COURSE, IN ONE LIFT.
11. COMPLETE ALL PAVEMENT MARKINGS IN ACCORDANCE WITH THE PLANS, AND AS DIRECTED BY THE ENGINEER.
12. COMPLETE ALL MISCELLANEOUS CONSTRUCTION INCLUDING ALL CLEAN-UP AND FINAL RESTORATION.
13. 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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PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR

2016 ANNUAL RESURFACING

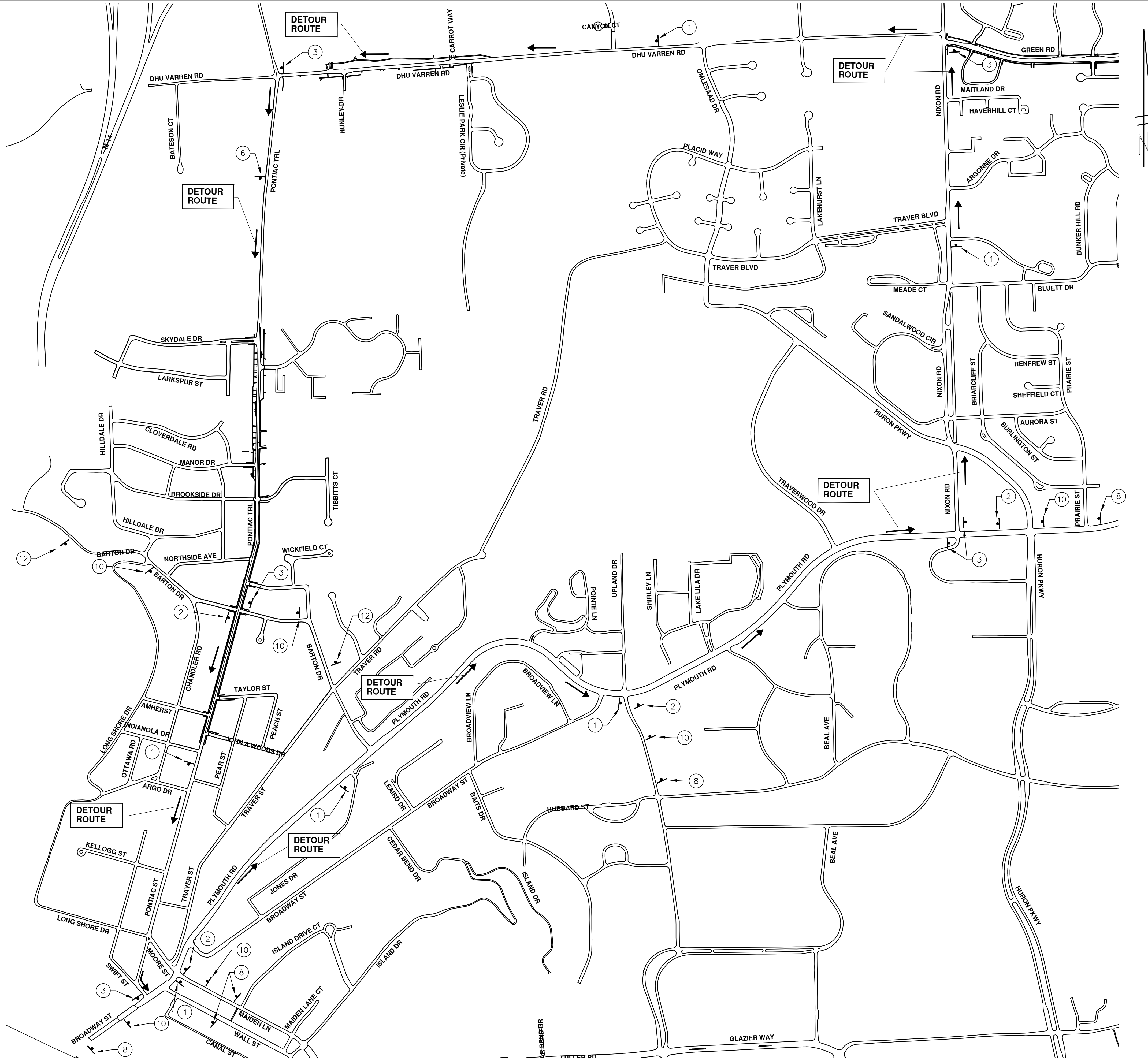
PONTIAC TRAIL

DRAWING No. 2016004-44

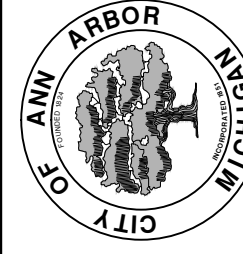
SHEET No. 44 OF 97

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



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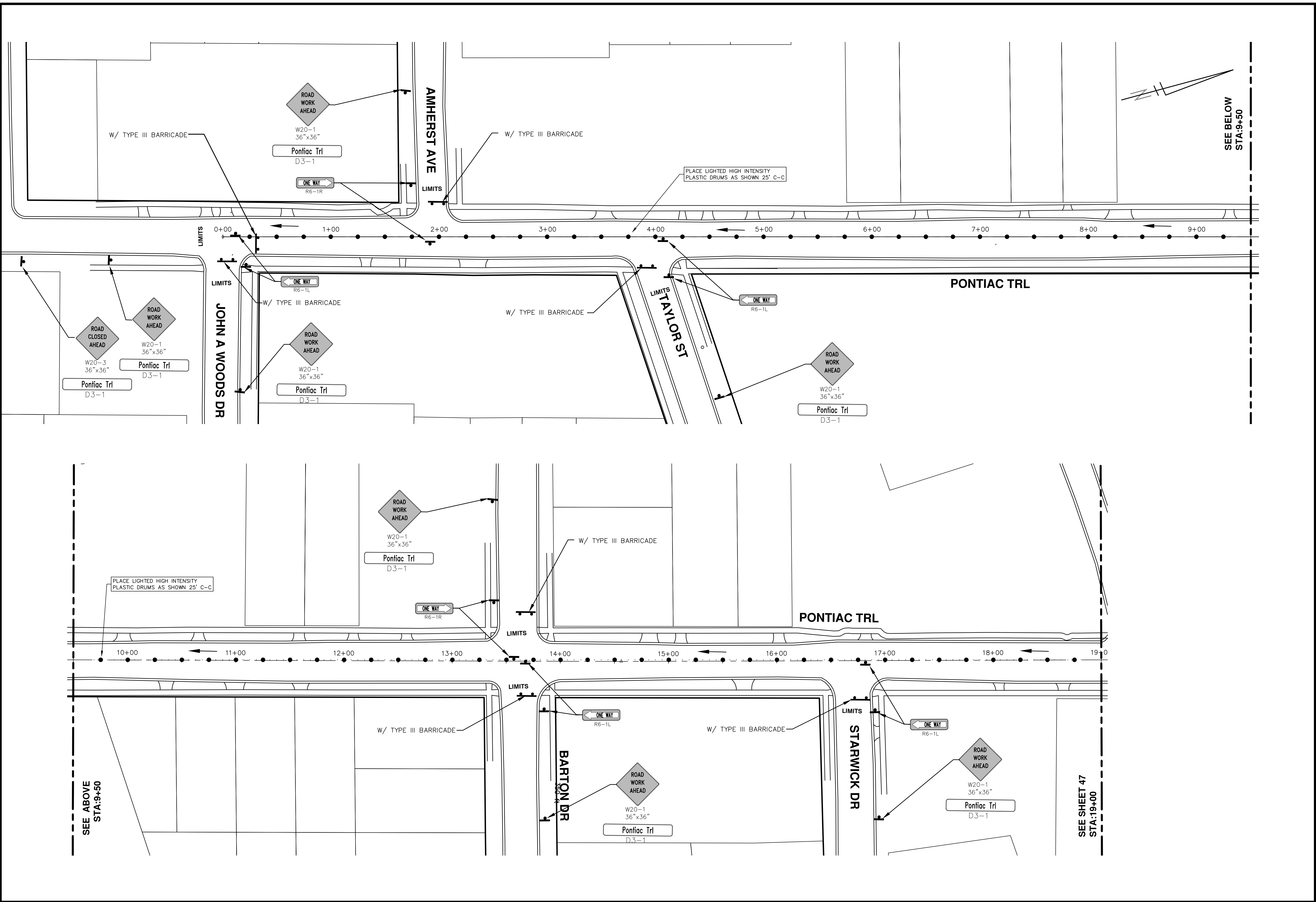


**PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR**  
**2016 ANNUAL RESURFACING**  
PONTIAC TRAIL  
DETOUR

SCALE PLAN: 1:552.49  
DRAWING No. 2016004-45  
SHEET No. 45 OF 97

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 PONTIAC TRAIL  
 TRAFFIC CONTROL

SCALE PLAN: 1" = 40'  
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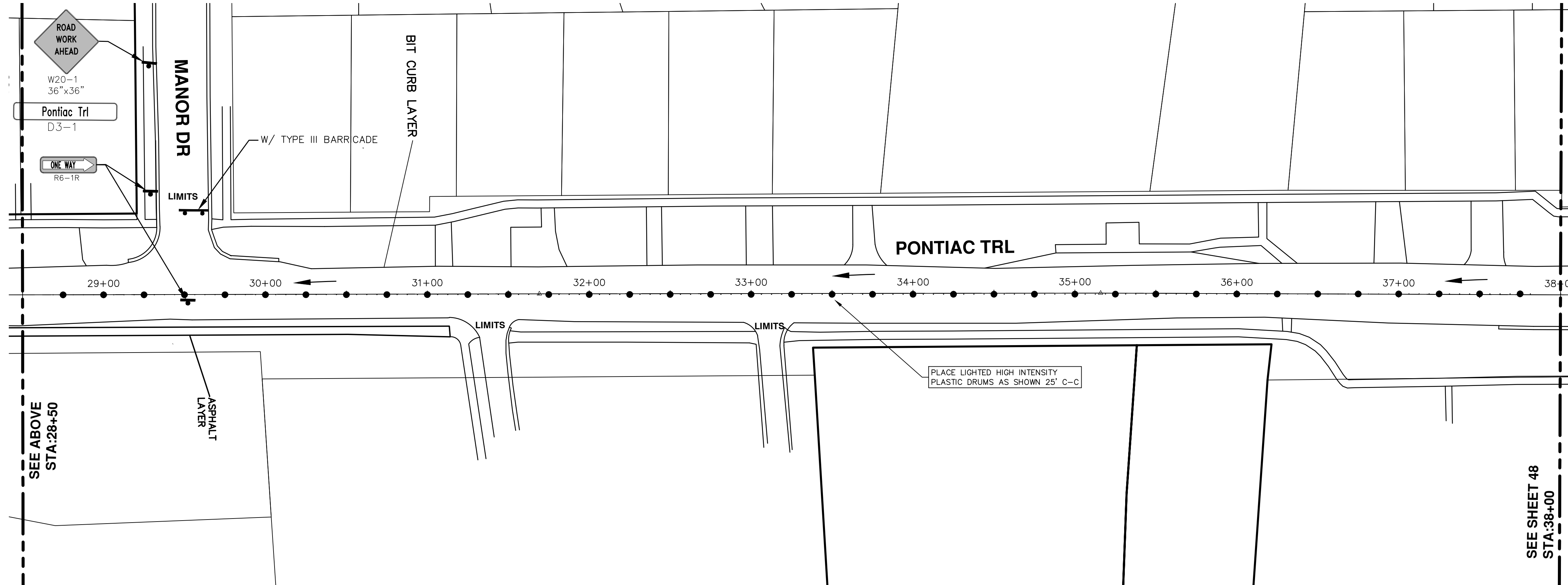
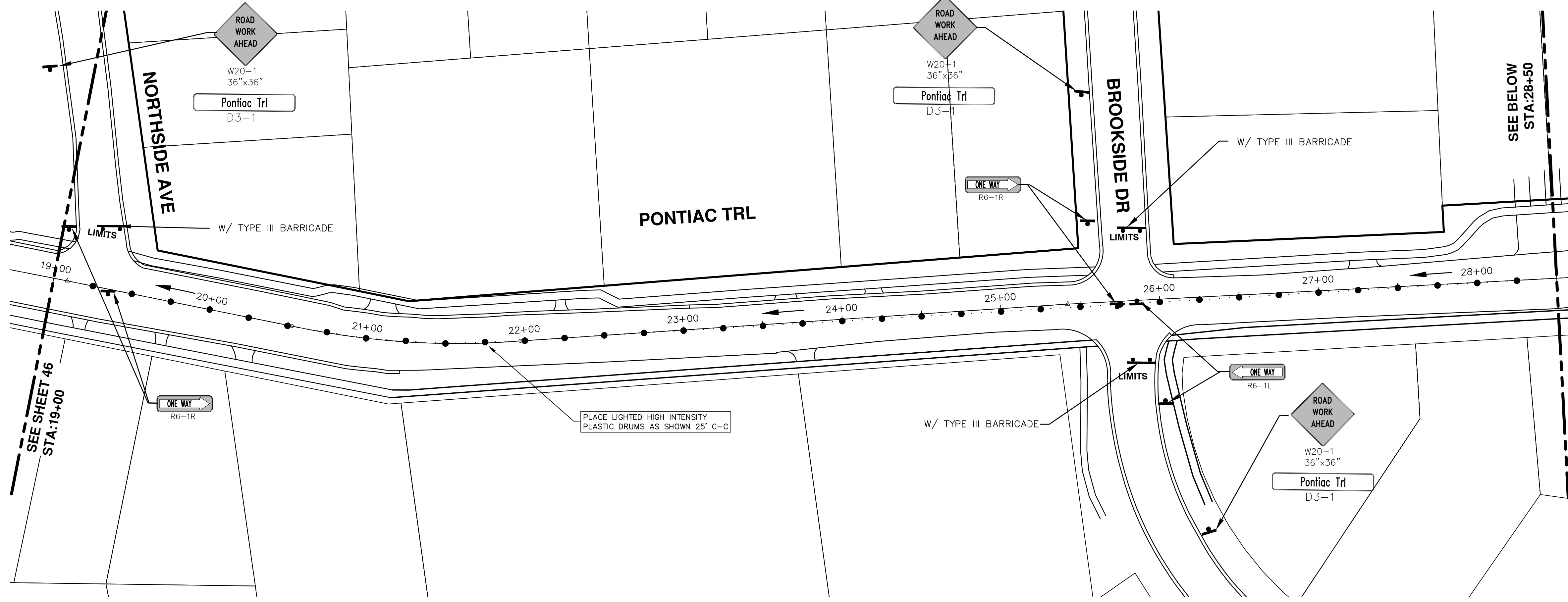
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00	BID SET	2-22-2016	SS AH JK	DAD

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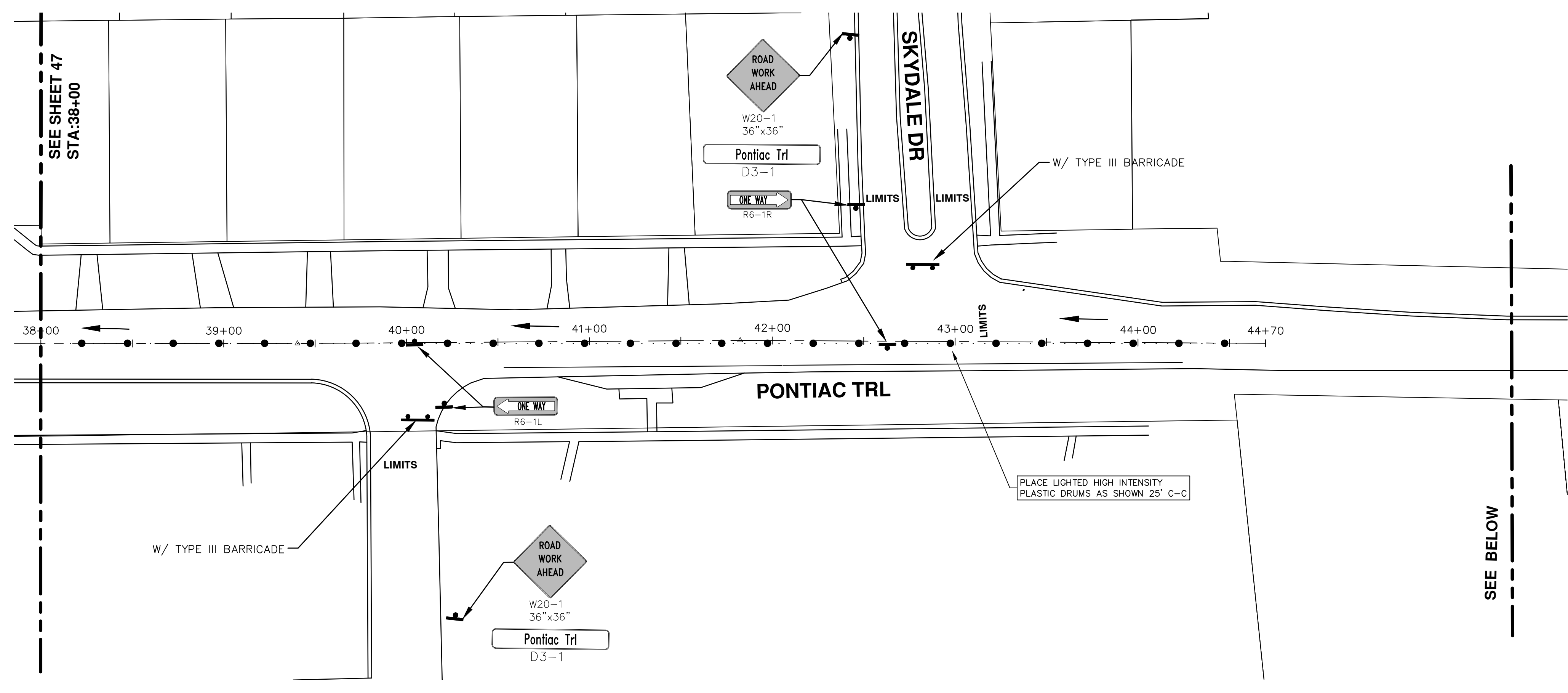
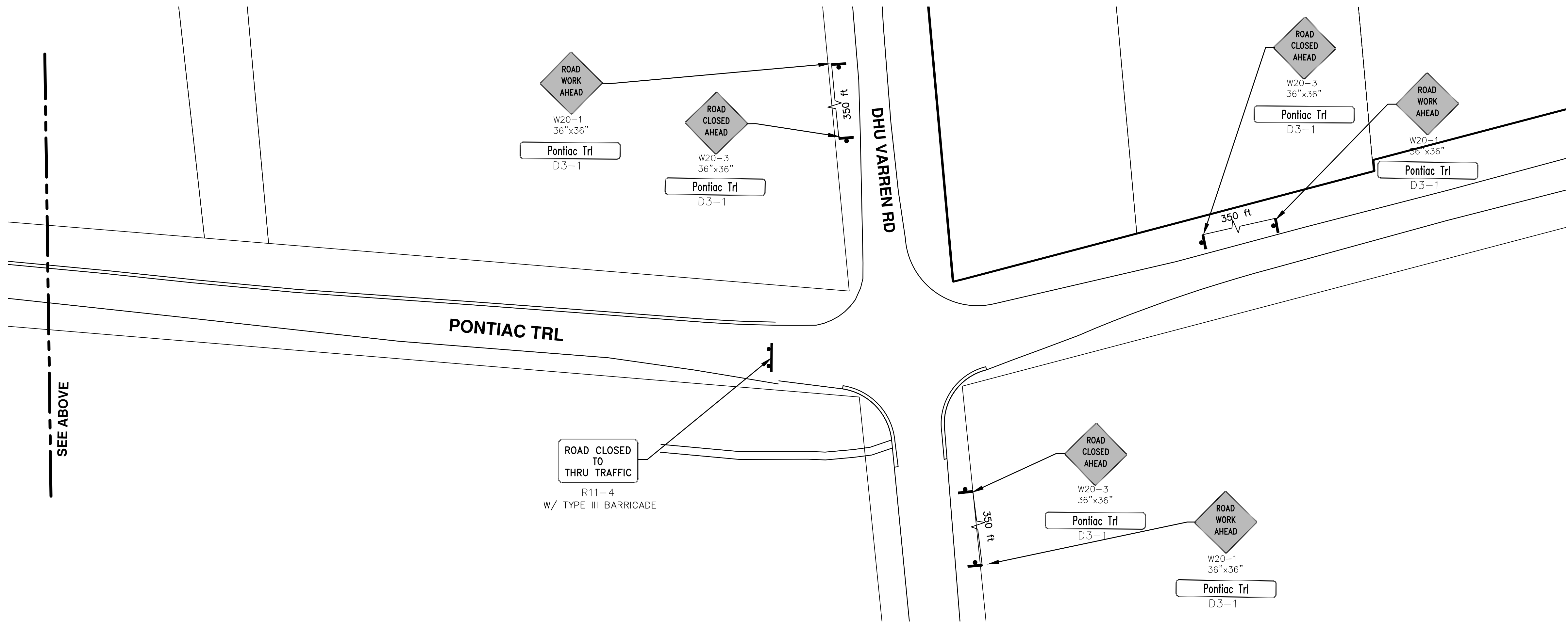
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**2016 ANNUAL RESURFACING**  
PONTIAC TRAIL  
TRAFFIC CONTROL

SCALE PLAN: 1" = 40'  
DRAWING No. 2016004-47

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**2016 ANNUAL RESURFACING**  
**PONTIAC TRAIL**  
**TRAFFIC CONTROL**

SCALE PLAN: 1" = 40'  
 DRAWING No. 2016004-48  
 SHEET No. 48 OF 97

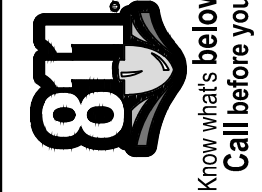
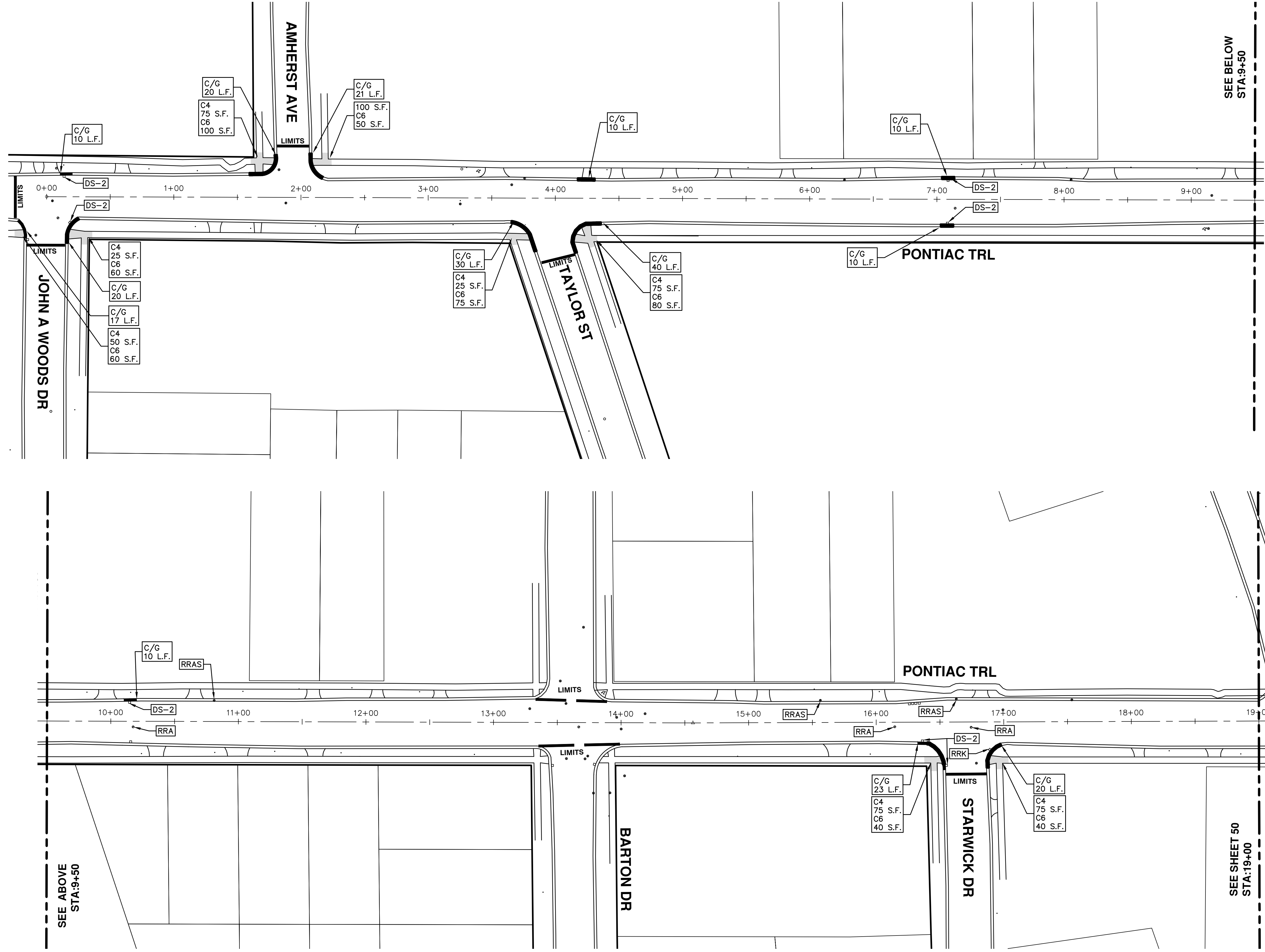
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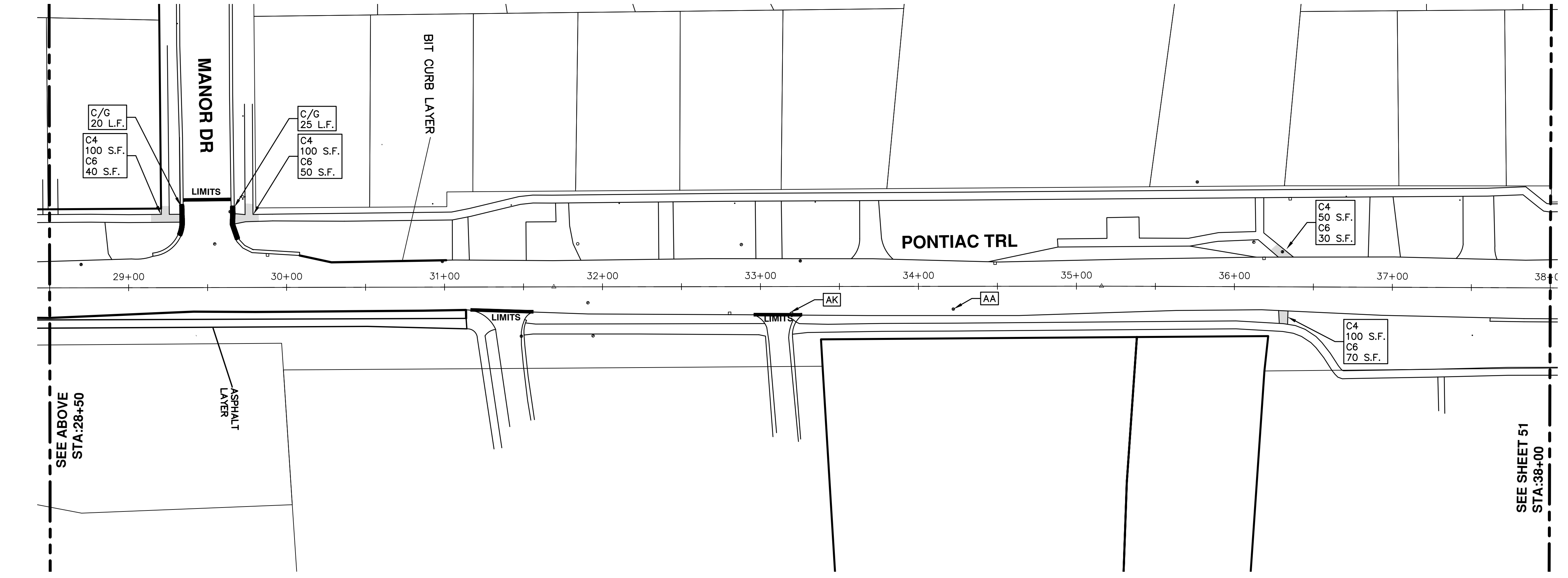
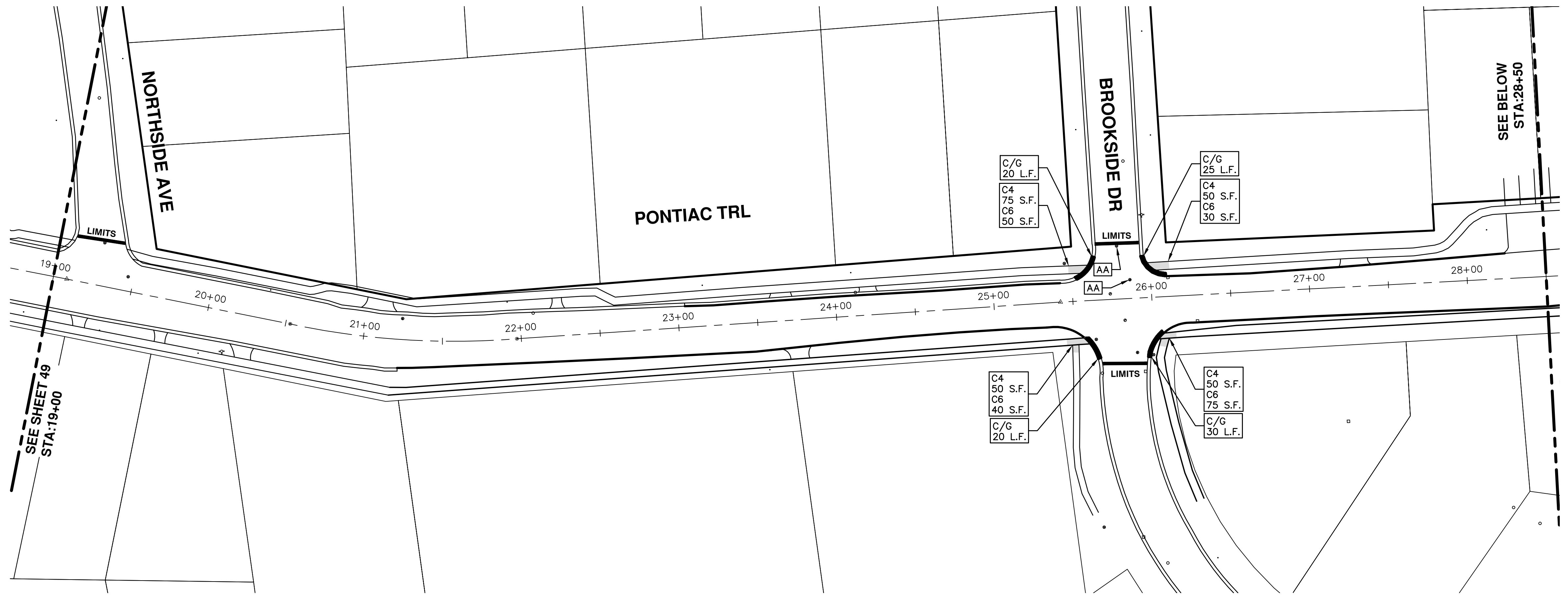
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2016 ANNUAL RESURFACING  
PONTIAC TRAIL  
RESURFACING

SCALE PLAN: #####  
DRAWING No. 2016004-49

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**2016 ANNUAL RESURFACING**  
 PONTIAC TRAIL  
 RESURFACING

SCALE PLAN: 1" = 40'  
 DRAWING No. 2016004-50

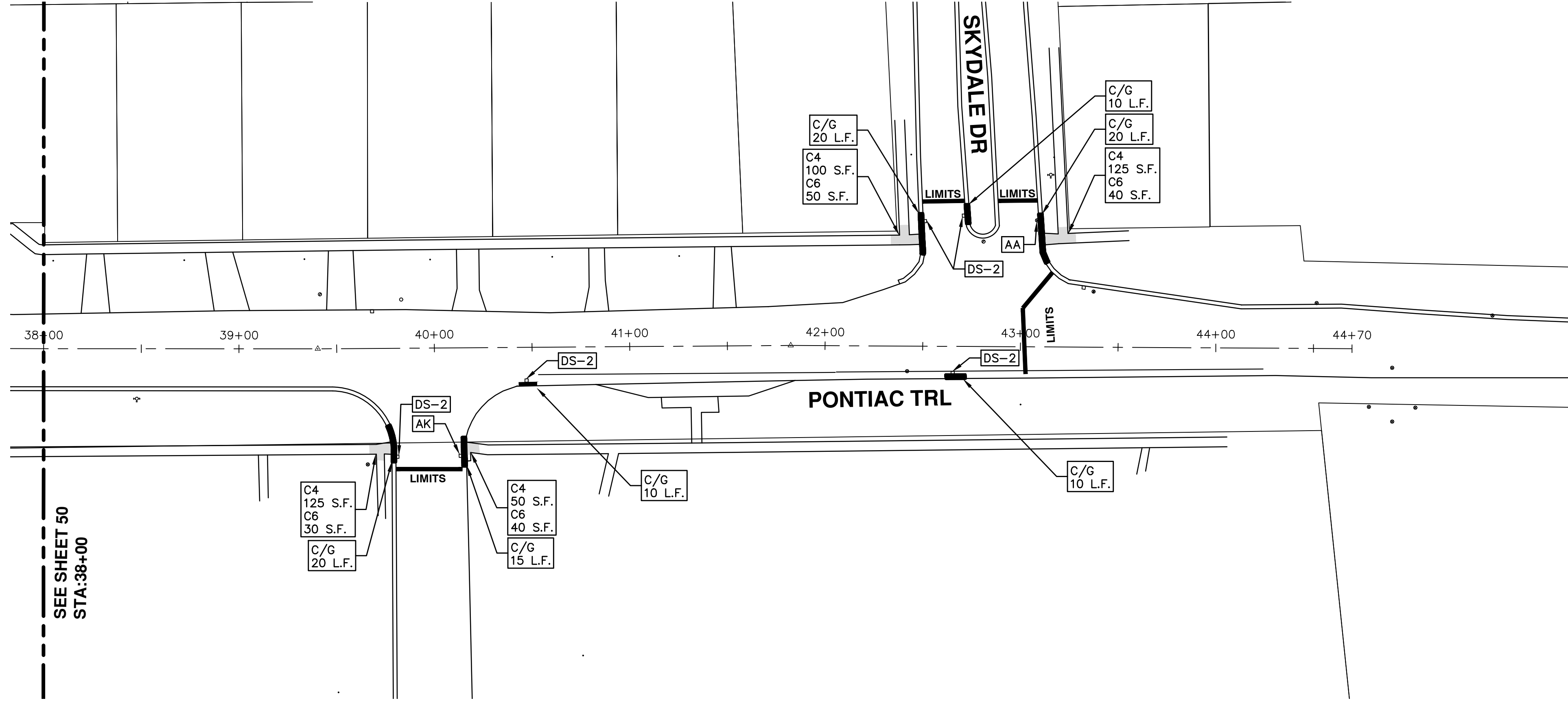
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REV.	DESCRIPTION	DATE	DRAWN	CHECKED
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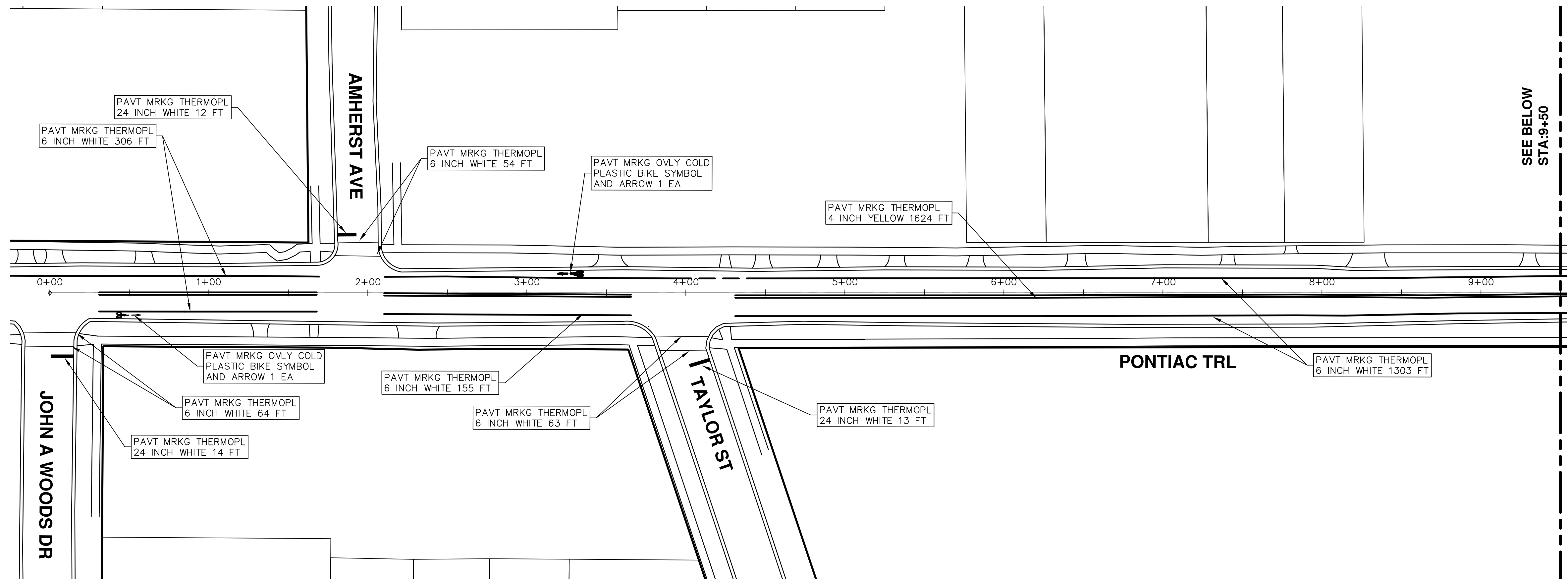
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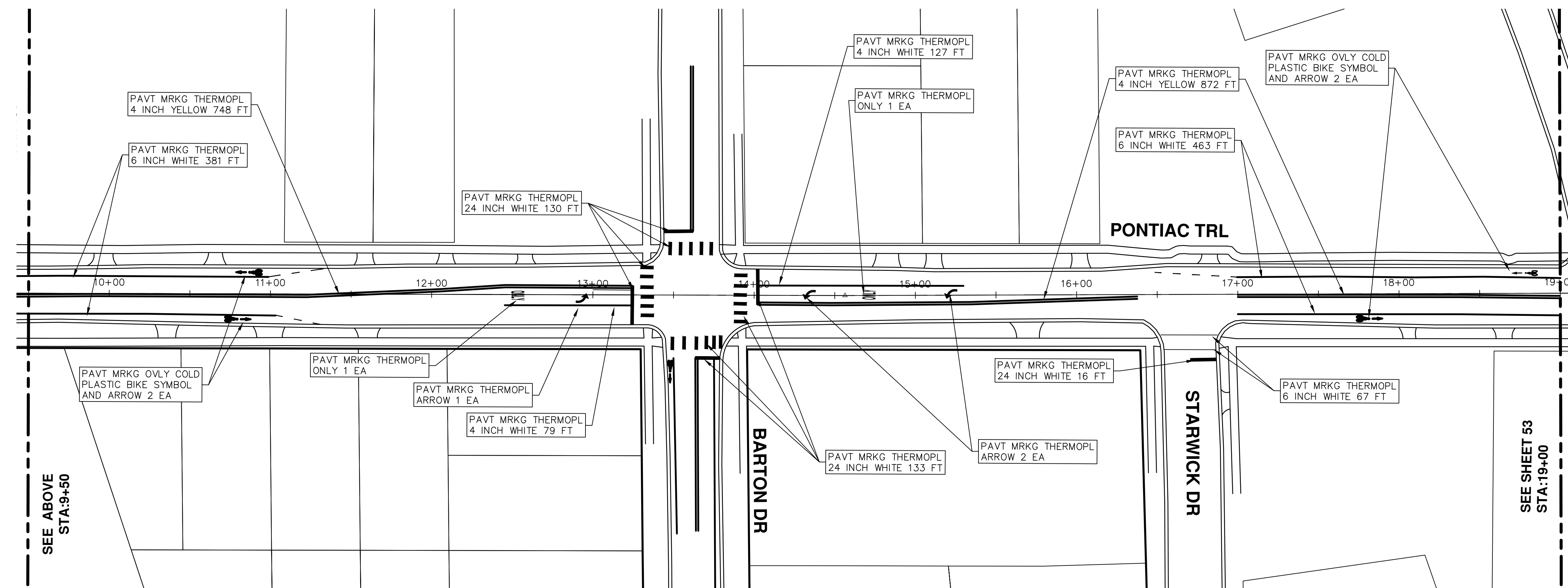
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STA: 38+00

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STA:9+50



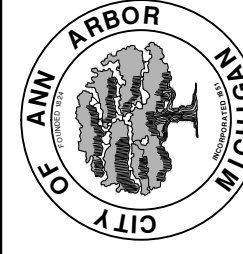
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SEE SHEET 53  
STA:19+00



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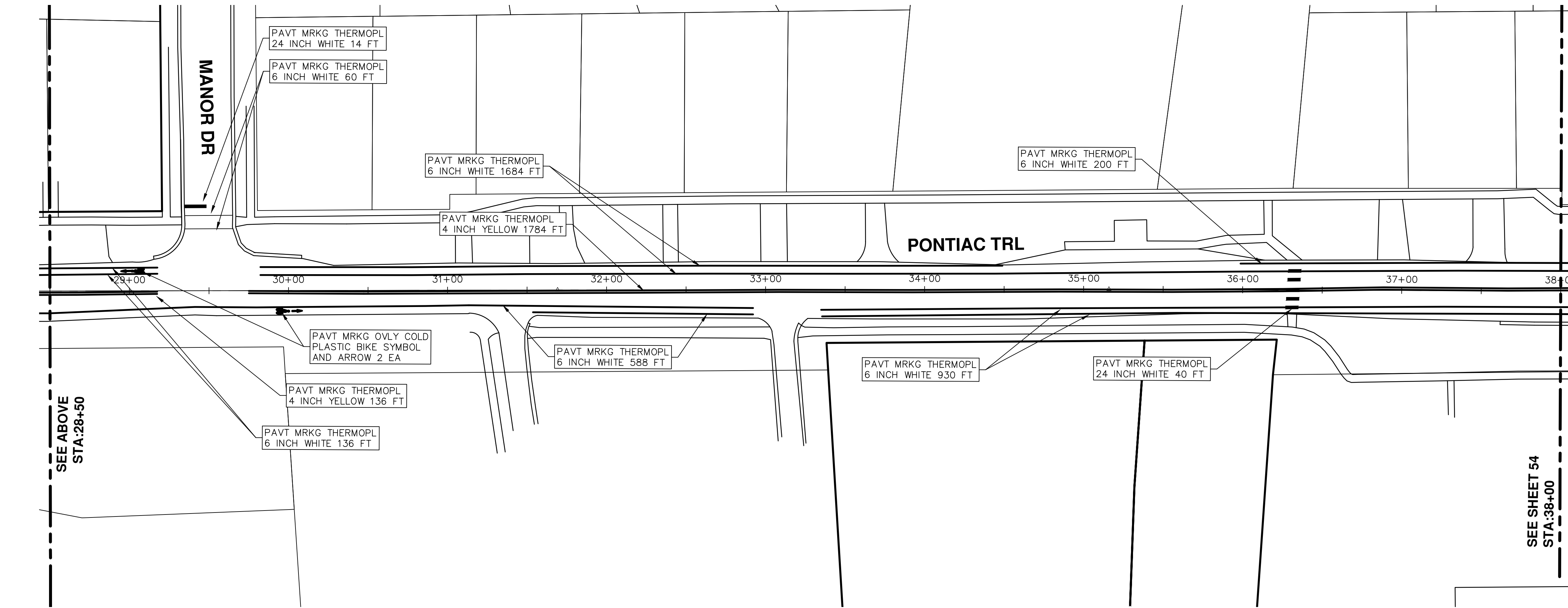
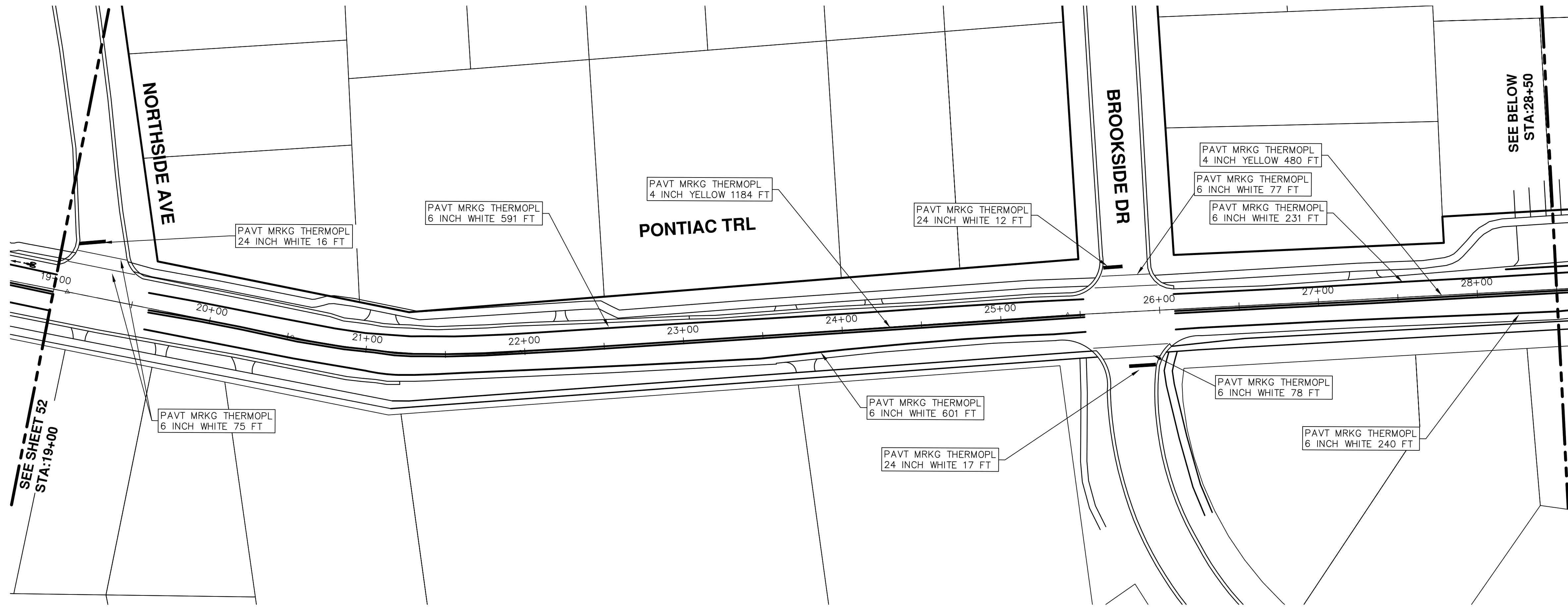
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2016 ANNUAL RESURFACING  
PONTIAC TRAIL  
PAVEMENT MARKINGS

SCALE PLAN: 1" = 40'  
DRAWING No. 2016004-52

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2016 ANNUAL RESURFACING

PONTIAC TRAIL

PAVEMENT MARKINGS

SCALE PLAN: 1" = 40'

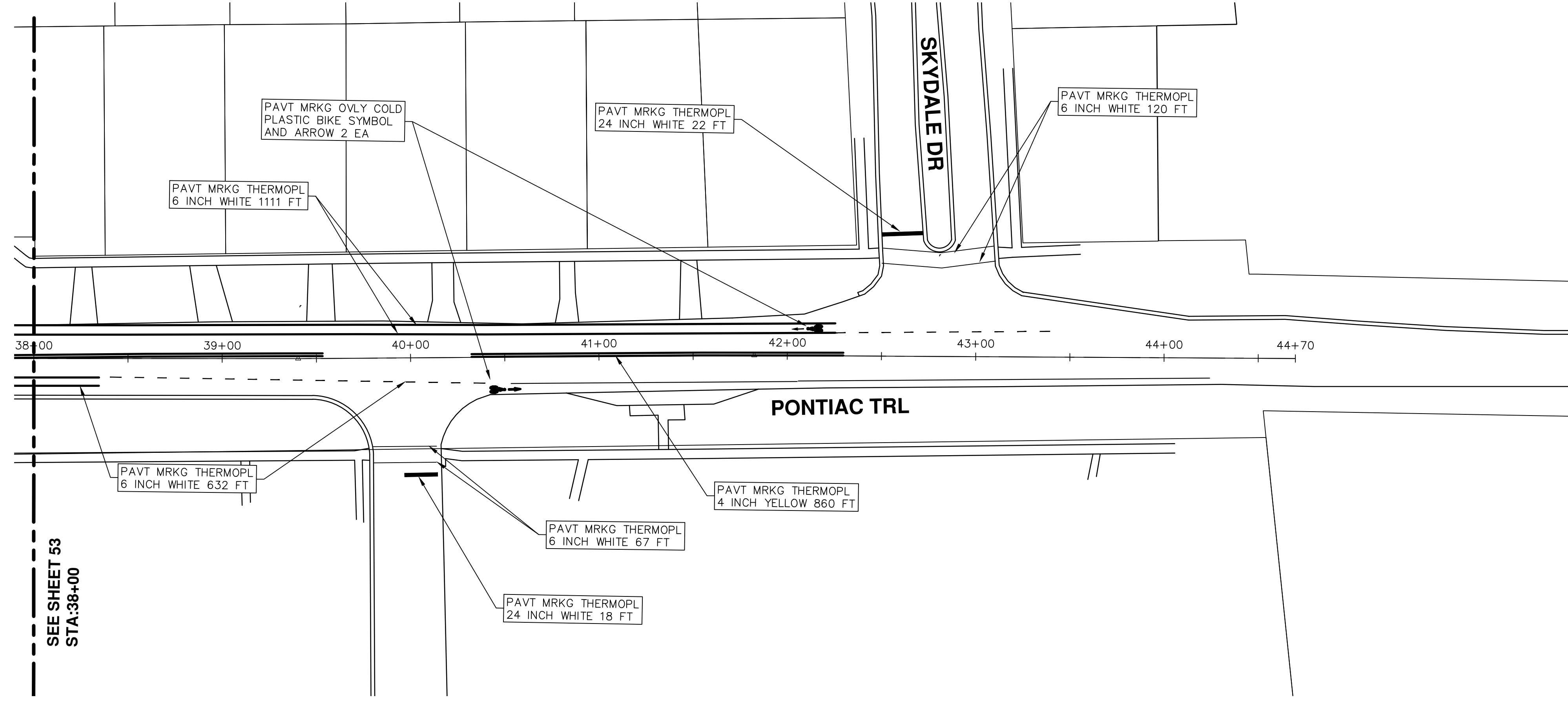
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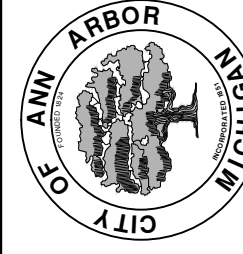


SEE SHEET 53  
STA: 38+00



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**2016 ANNUAL RESURFACING**  
PONTIAC TRAIL  
PAVEMENT MARKINGS

SCALE PLAN: 1" = 40'  
DRAWING No. 2016004-54



# CITY OF ANN ARBOR PROJECT MANAGEMENT 2016 ANNUAL RESURFACING PROJECT LOCATION: HURON RIVER DR

ITB No. 4422 FILE No. 2016004



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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	DESCRIPTION
C/G	REMOVE AND REPLACE CURB AND GUTTER
C/GHE	REMOVE CURB AND GUTTER, REPLACE WITH CONCRETE CURB AND GUTTER H.E.
C4HE	REMOVE EXISTING RAMP OR SIDEWALK. REPLACE WITH 4" SIDEWALK OR TYPE 1 SIDEWALK RAMP,H.E.
CR	REMOVE SIDEWALK, DRIVE OR RAMP.
AA	ADJUST MDOT TYPE A CASTINGS.
AB	ADJUST GATE VALVE BOX OR MONUMENT BOX.
ADST	ADDITIONAL DEPTH STRUCTURE REPAIR.
RRA	REMOVE AND REPLACE MDOT TYPE A CASTING ADJUST TO FINISH GRADE.
CPRHE	CONCRETE PAVEMENT REPAIR, H.E.
DS	CONSTRUCT 2, 3 OR 4' DIAM. DRAINAGE STRUCTURE.
PT	POINT STRUCTURE.
C4	REMOVE EXISTING RAMP OR SIDEWALK, REPLACE WITH 4" SIDEWALK OR RAMP.
C6	REMOVE EXISTING RAMP OR SIDEWALK, REPLACE WITH 6" SIDEWALK OR RAMP.
C8	PLACE 8" SIDEWALK OR RAMP ONLY
C HE	REMOVE EXISTING DRIVE APPROACH, RAMP OR SIDEWALK. REPLACE WITH 6" OR 8" APPROACH, RAMP,OR SIDEWALK, H.E.
CP	PLACE 4" SIDEWALK OR RAMP.
AK	ADJUST MDOT TYPE K CASTING.
TYPE II	MDOT TYPE II BARRICADE.
TYPE III	MDOT TYPE III BARRICADE.
RRK	REMOVE AND REPLACE MDOT TYPE K CASTING. ADJUST TO FINISH GRADE.
RS	RECONSTRUCT STRUCTURE.
RCP	REMOVE CONC. PAVEMENT - ANY THICKNESS
RCW	RAISED CROSSWALK

LEGEND	
SYMBOL	DESCRIPTION
⊙	EXISTING SANITARY SEWER MANHOLE
⊙	EXISTING STORM SEWER MANHOLE
⊗	EXISTING WATER MAIN VALVE IN WELL
+	WATER MAIN GATE VALVE IN BOX
⊕	FIRE HYDRANT
⊙	MICHCON GAS CO. VALVE BOX/WELL
⊙	AMERITECH TELEPHONE VAULT
⊙	ELECTRIC MANHOLE
⊕	SOIL BORING
□	EXISTING STORM SEWER INLET
⊠	MONUMENT BOX
▨	REMOVE AND REPLACE CONC. SIDEWALK
▨	PLACE CONCRETE SIDEWALK
—	REMOVE & REPLACE CONC. CURB & GUTTER
- - -	CONSTRUCTION LIMITS
- · - · -	6" WRAPPED UNDERDRAIN
▨	REMOVE CONCRETE SIDEWALK
▨	SUBGRADE UNDERCUT

### 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 1.5 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. ADJUST ALL STRUCTURE COVERS, MONUMENT BOXES, AND VALVE BOXES TO THEIR FINISHED ELEVATIONS.
10. PAVE 1.5 INCH OF THE BITUMINOUS MIX AS SPECIFIED OR DIRECTED, AS THE WEARING COURSE, IN ONE LIFT.
11. COMPLETE ALL PAVEMENT MARKINGS IN ACCORDANCE WITH THE PLANS, AND AS DIRECTED BY THE ENGINEER.
12. COMPLETE ALL MISCELLANEOUS CONSTRUCTION INCLUDING ALL CLEAN-UP AND FINAL RESTORATION.
13. 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 CONSTRUCTION COVERED BY THESE PLANS SHALL CONFORM TO THE 1994 EDITION OF THE CITY OF ANN ARBOR PUBLIC SERVICES DEPARTMENT STANDARD SPECIFICATIONS, IT'S DETAILS, WHICH ARE INCLUDED BY REFERENCE, AND THIS PROJECT'S CONTRACT DOCUMENTS. THE OMISSION OF ANY CURRENT STANDARD DETAIL DOES NOT RELIEVE THE CONTRACTOR FROM THIS REQUIREMENT.



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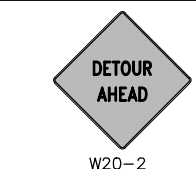
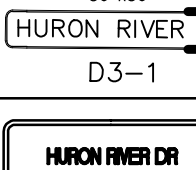

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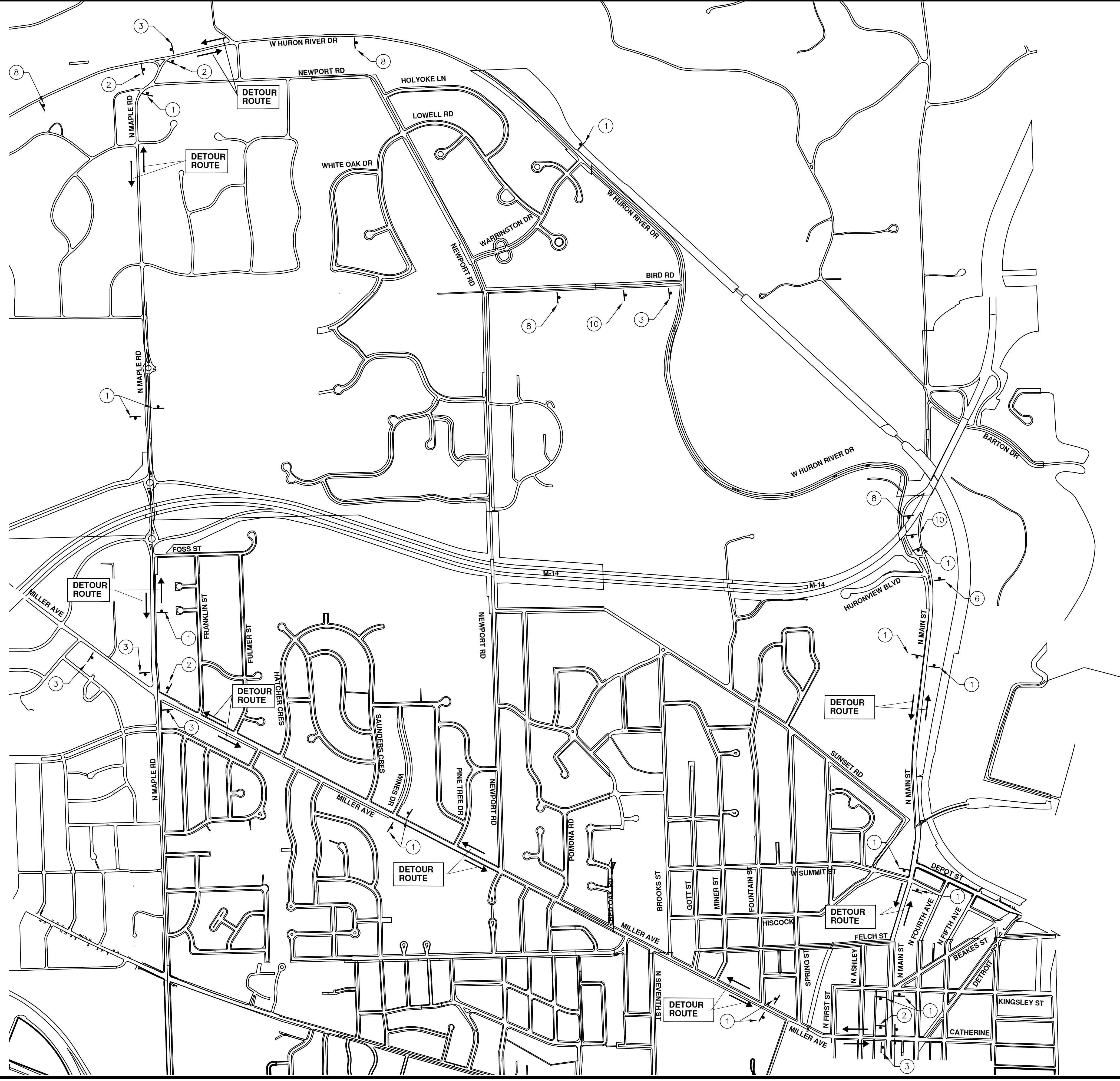
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HURON RIVER DR

DRAWING No. 2016004-55

SHEET No. 55 OF 97

TRAFFIC CONTROL SIGN		
TAG	SIGN	NUM.
①		D3-1 M4-9S 30x24
②		D3-1 M4-9R 30x24
③		D3-1 M4-9L 30x24
⑥		D3-1 M4-8a 24x18
⑧		SPECIAL 48x60
⑩	 	W20-2 48x48 D3-1
⑫		SPECIAL 48x60



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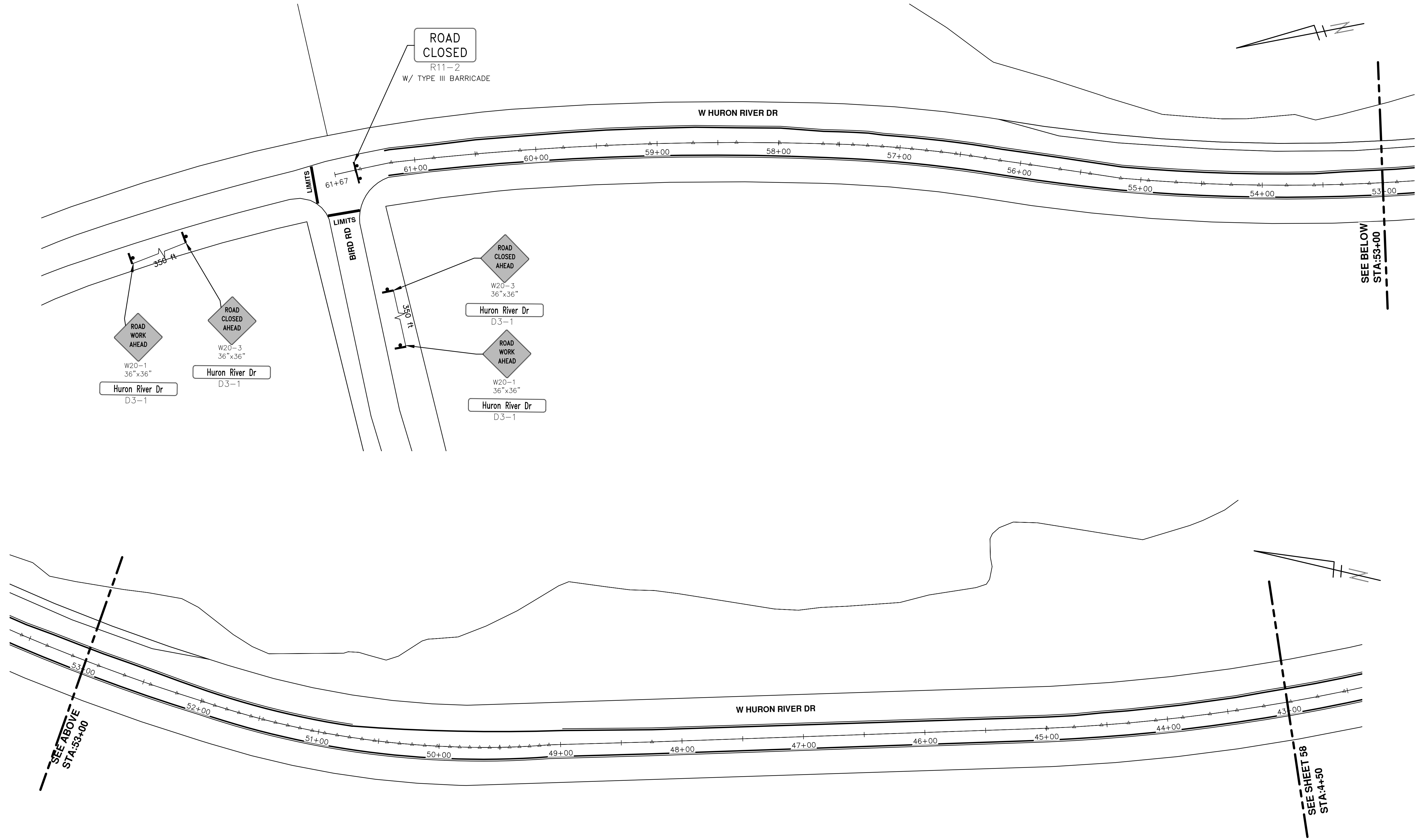
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SCALE: N.T.S.  
DRAWING No. 2016004-56

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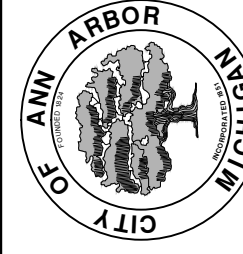


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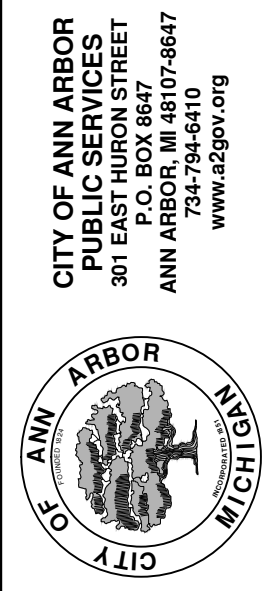
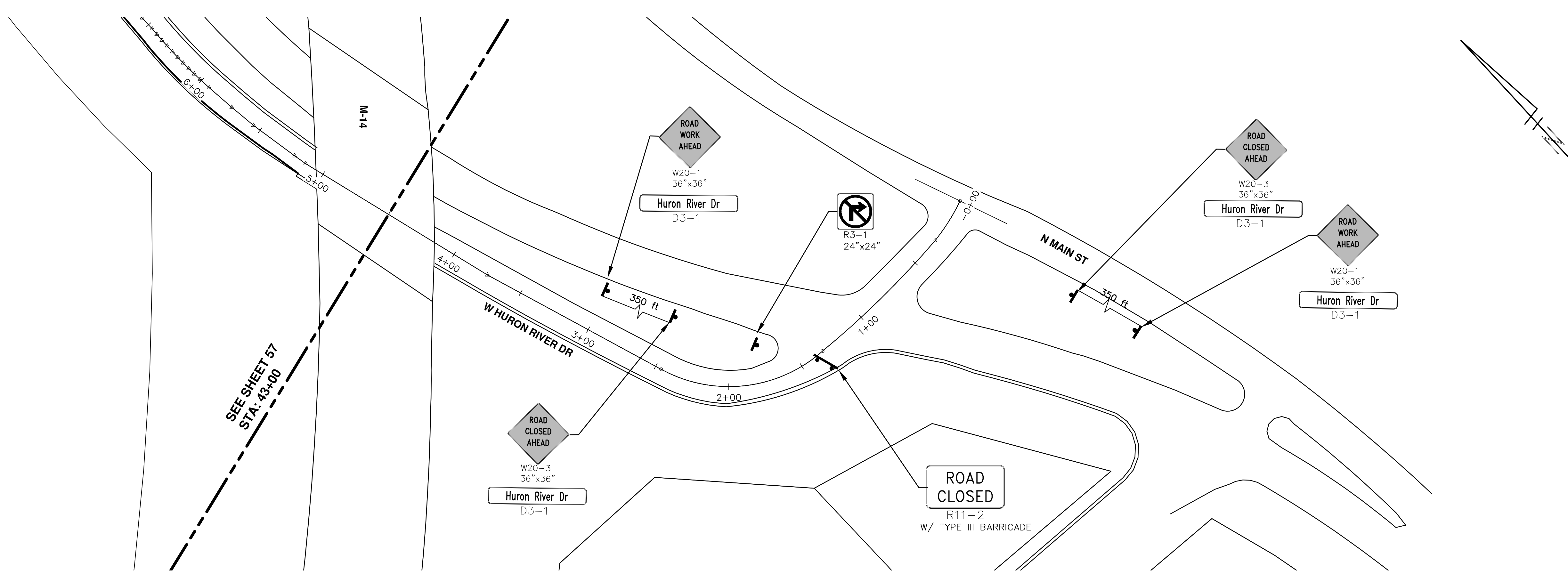
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**2016 ANNUAL RESURFACING**  
HURON RIVER DR  
TRAFFIC CONTROL

SCALE PLAN: 1" = 40'  
DRAWING No. 2016004-57

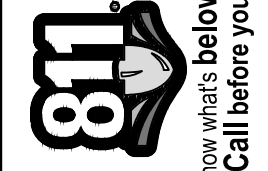
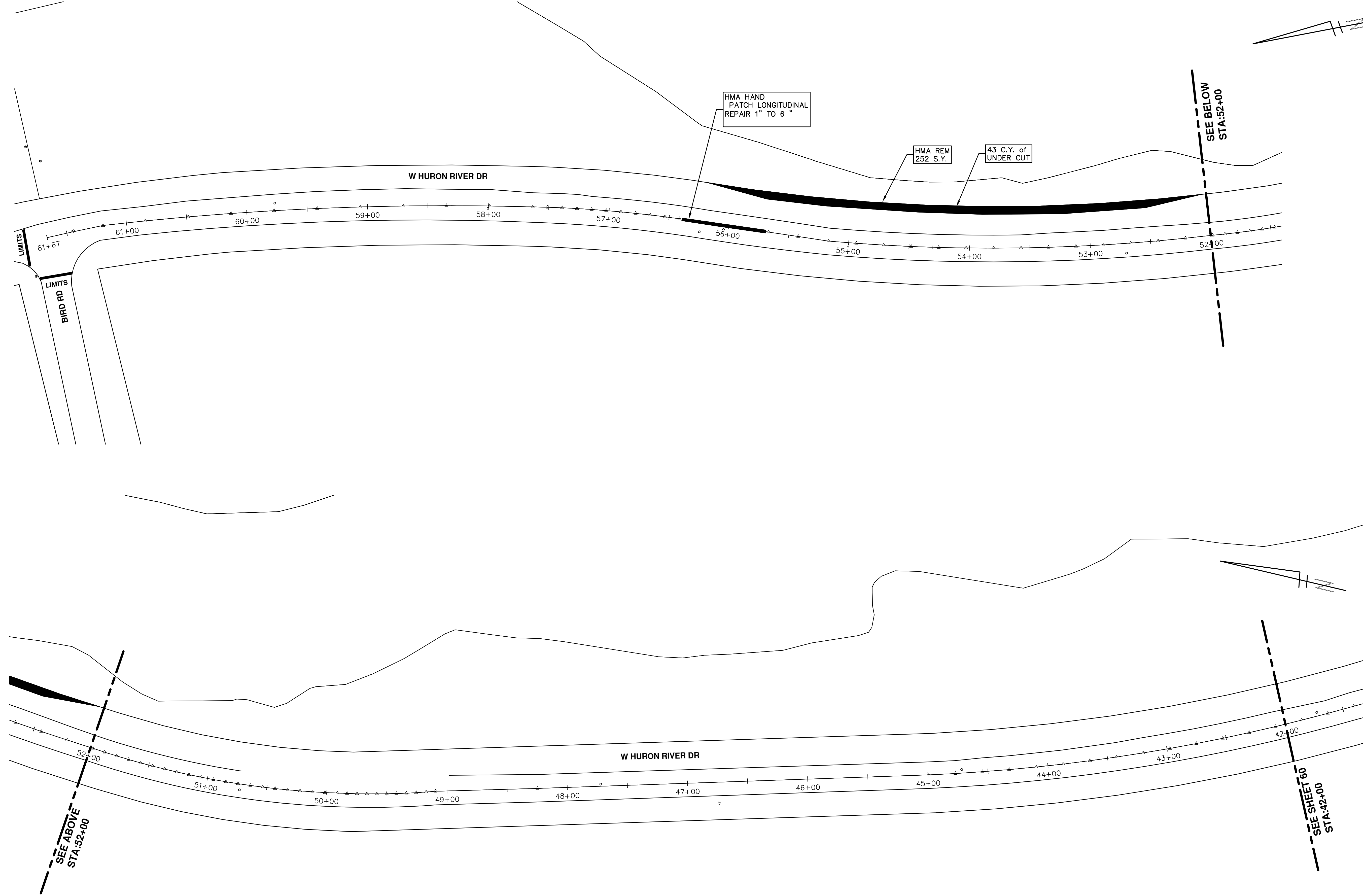


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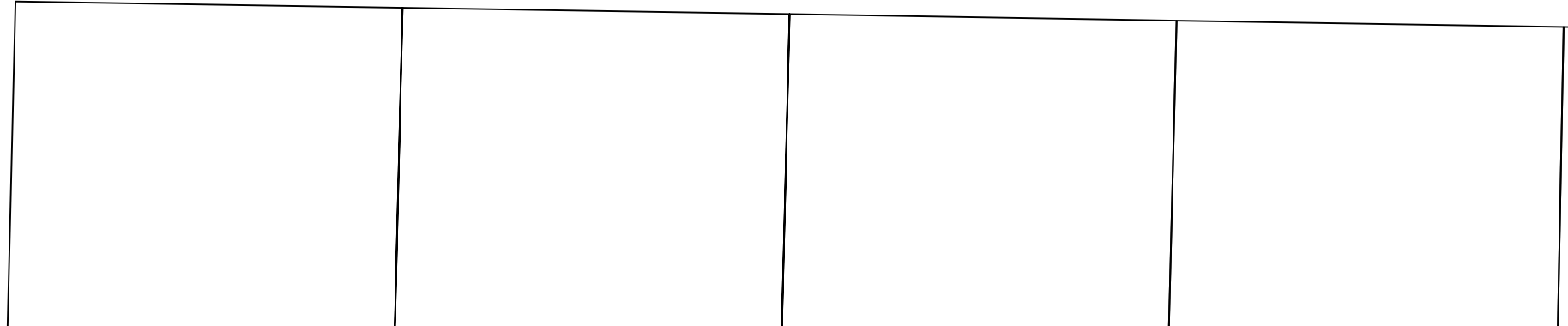
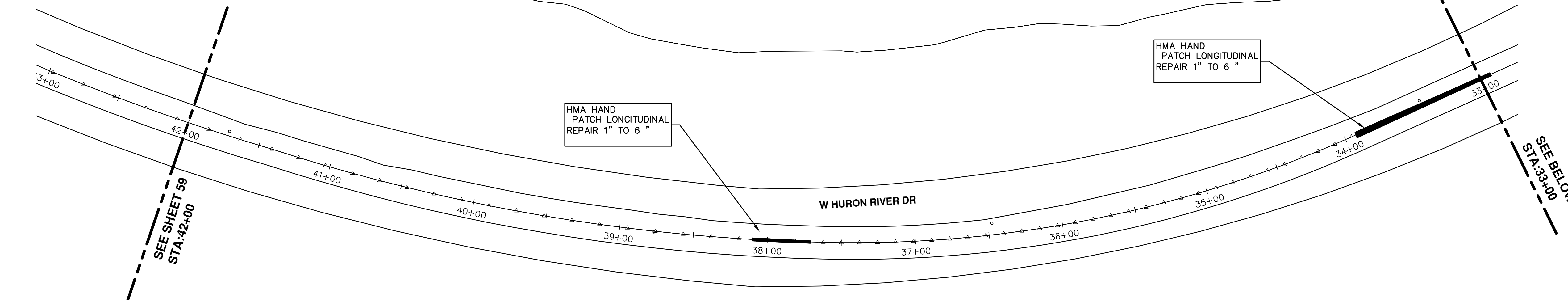
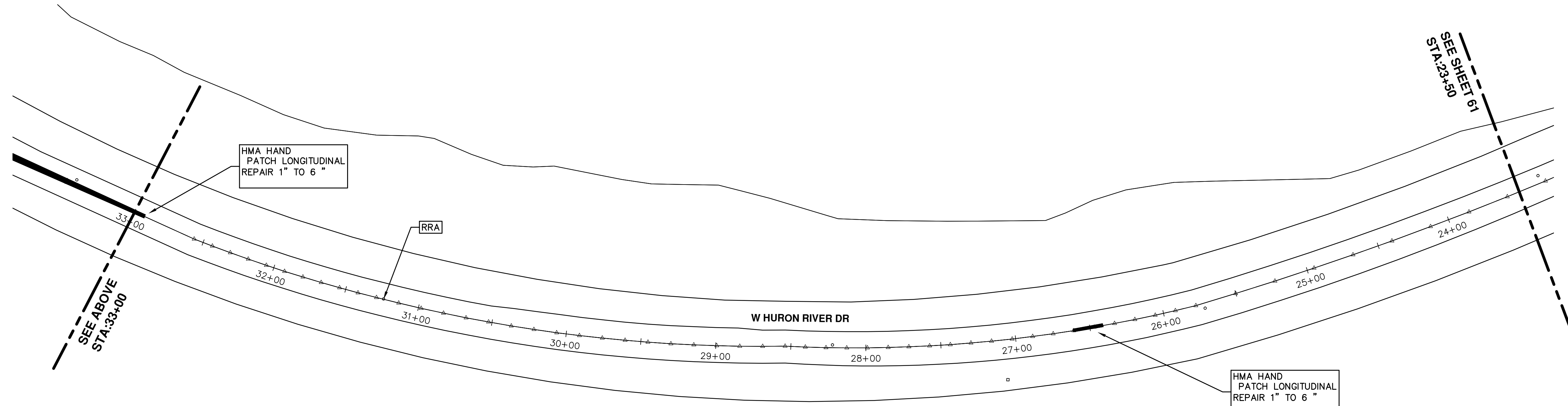
CITY OF ANN ARBOR  
 PUBLIC SERVICES  
 301 EAST HURON STREET  
 ANN ARBOR, MI 48106-8647  
 www.a2gov.org



**PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR**  
**2016 ANNUAL RESURFACING**  
 HURON RIVER DR  
 RESURFACING

SCALE PLAN: 1" = 40'  
 DRAWING No. 2016004-59

S:\Project Management\Drafting\autocad\2016004\Plan Production\2016004-HURON RIVER DR.dwg Dwg Created: 24-Nov-15 - \_a2\_standard bw.stb - Plot Date: 22-Feb-16



**PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR**


2016 ANNUAL RESURFACING

HURON RIVER DR  
RESURFACING

SCALE PLAN: 1" = 40'


DRAWING No. 2016004-60

SHEET No. 60 OF 97



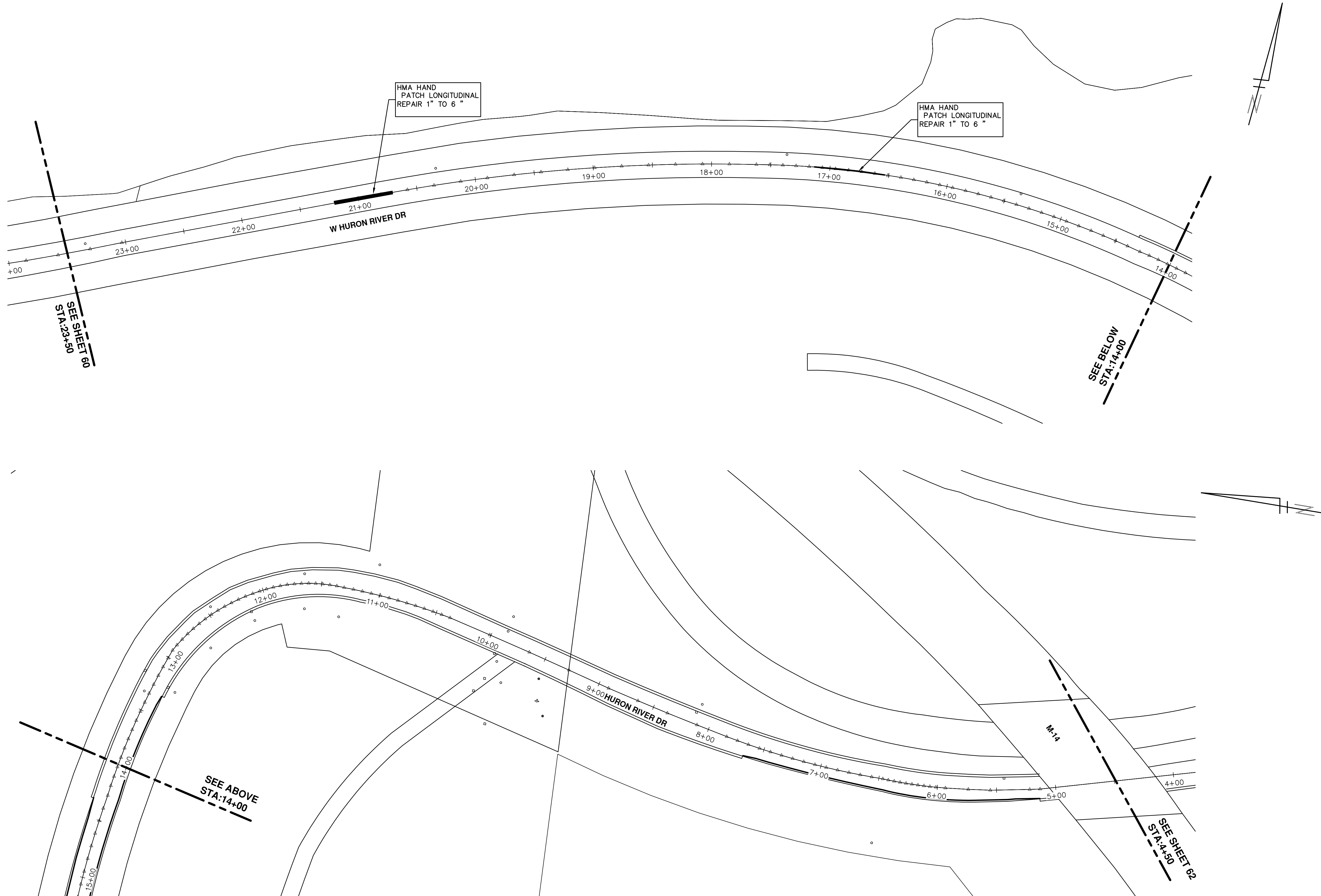
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301 EAST HURON STREET  
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SEE SHEET 60  
STA: 23+50

SEE BELOW  
STA: 14+00

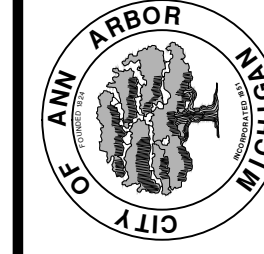
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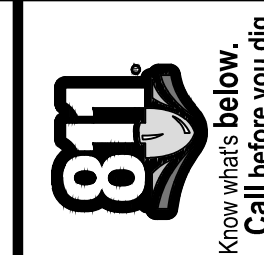
**PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR**  
**2016 ANNUAL RESURFACING**  
 HURON RIVER DR  
 RESURFACING

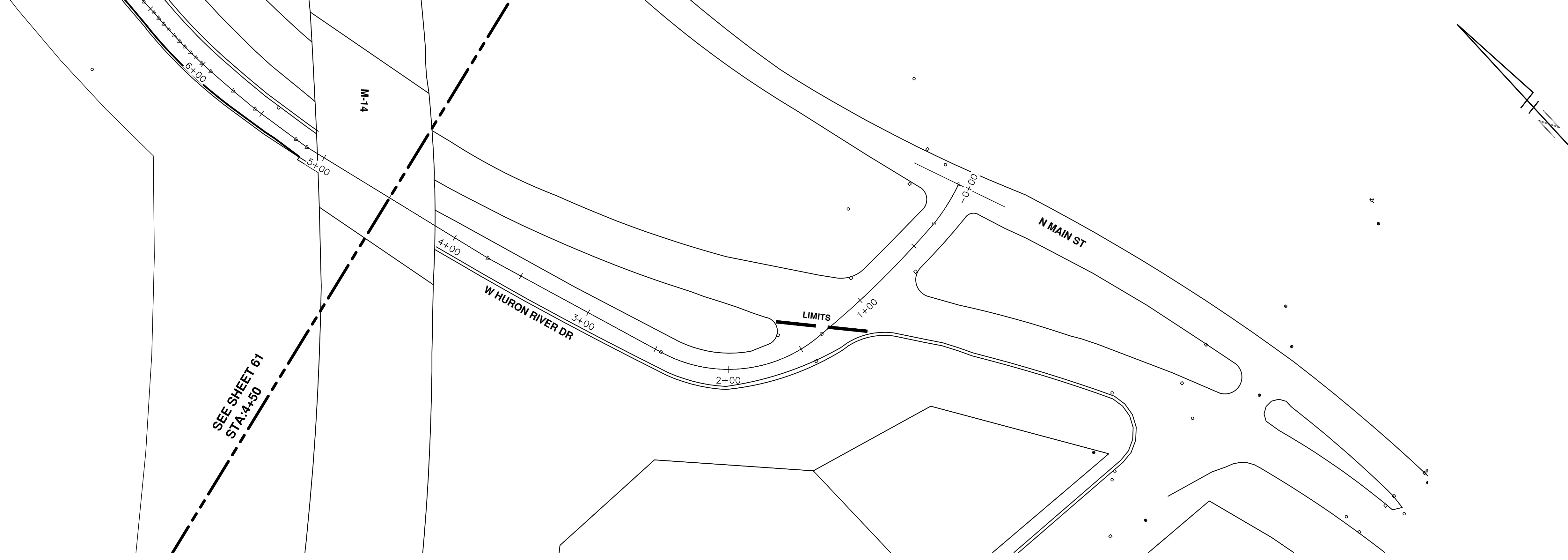
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 DRAWING No. 2016004-61

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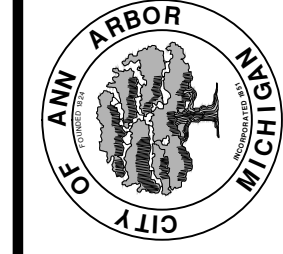
REV.	DESCRIPTION	DATE	DRAWN	CHECKED
00	BID SET	2-22-2016	GS AH JK	DAD





PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR  
 SCALE PLAN: 1" = 40'  
 DRAWING No.  
 2016004-62

2016 ANNUAL RESURFACING  
 HURON RIVER DR  
 RESURFACING

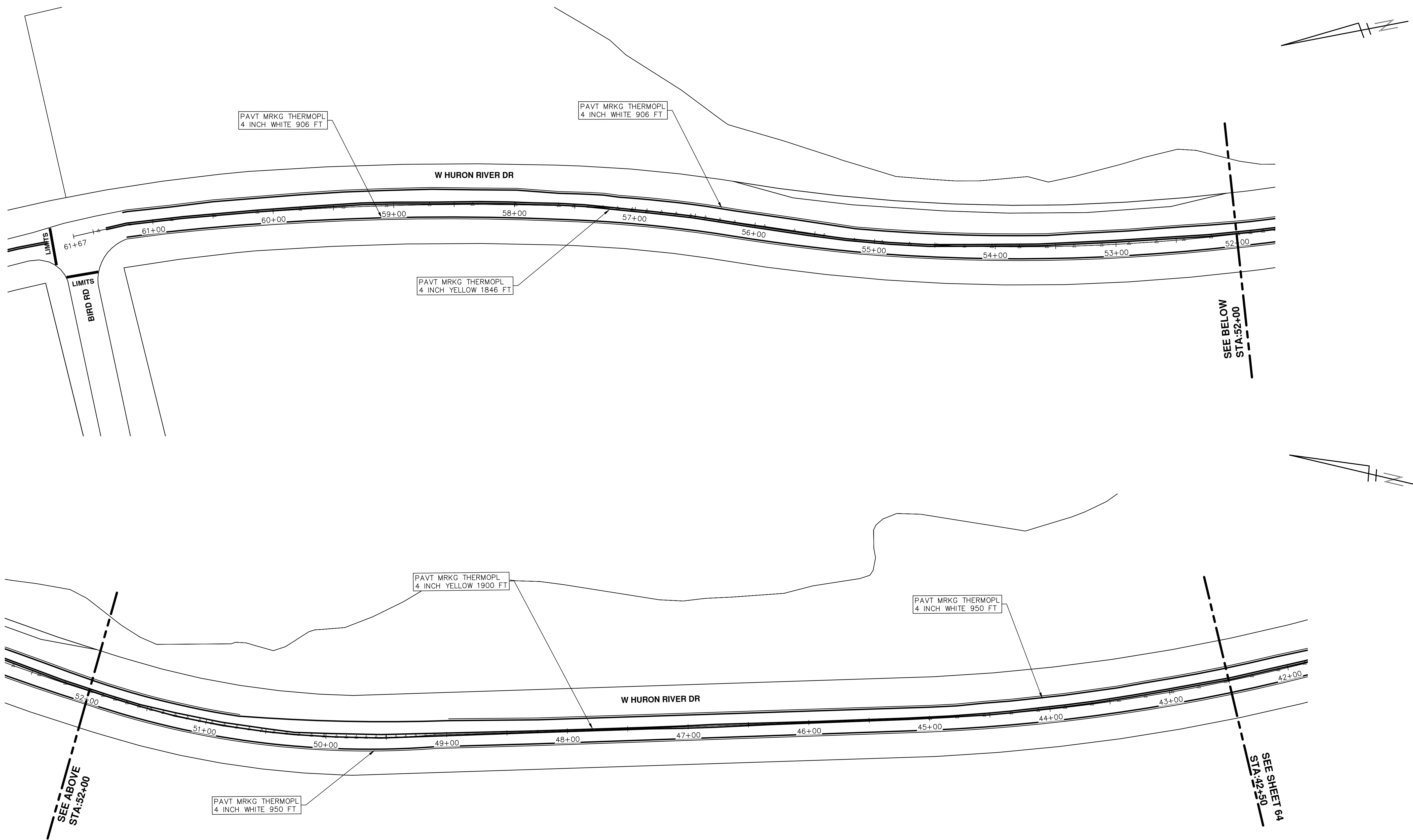


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REV.	DESCRIPTION	DATE	DRAWN	CHECKED
00	BID SET	2-22-2016	SS AH JK	DAD



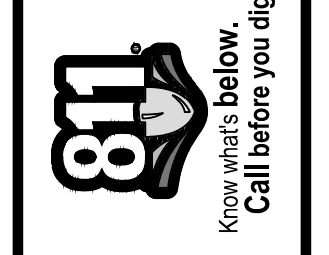
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SEE ABOVE  
STA:52+00

SEE BELOW  
STA:52+00

SEE SHEET 64  
STA:42+50



REV.	DESCRIPTION	DATE	DRAWN	CHECKED
00	BID SET	2-22-2016	SS AH JK	DAD

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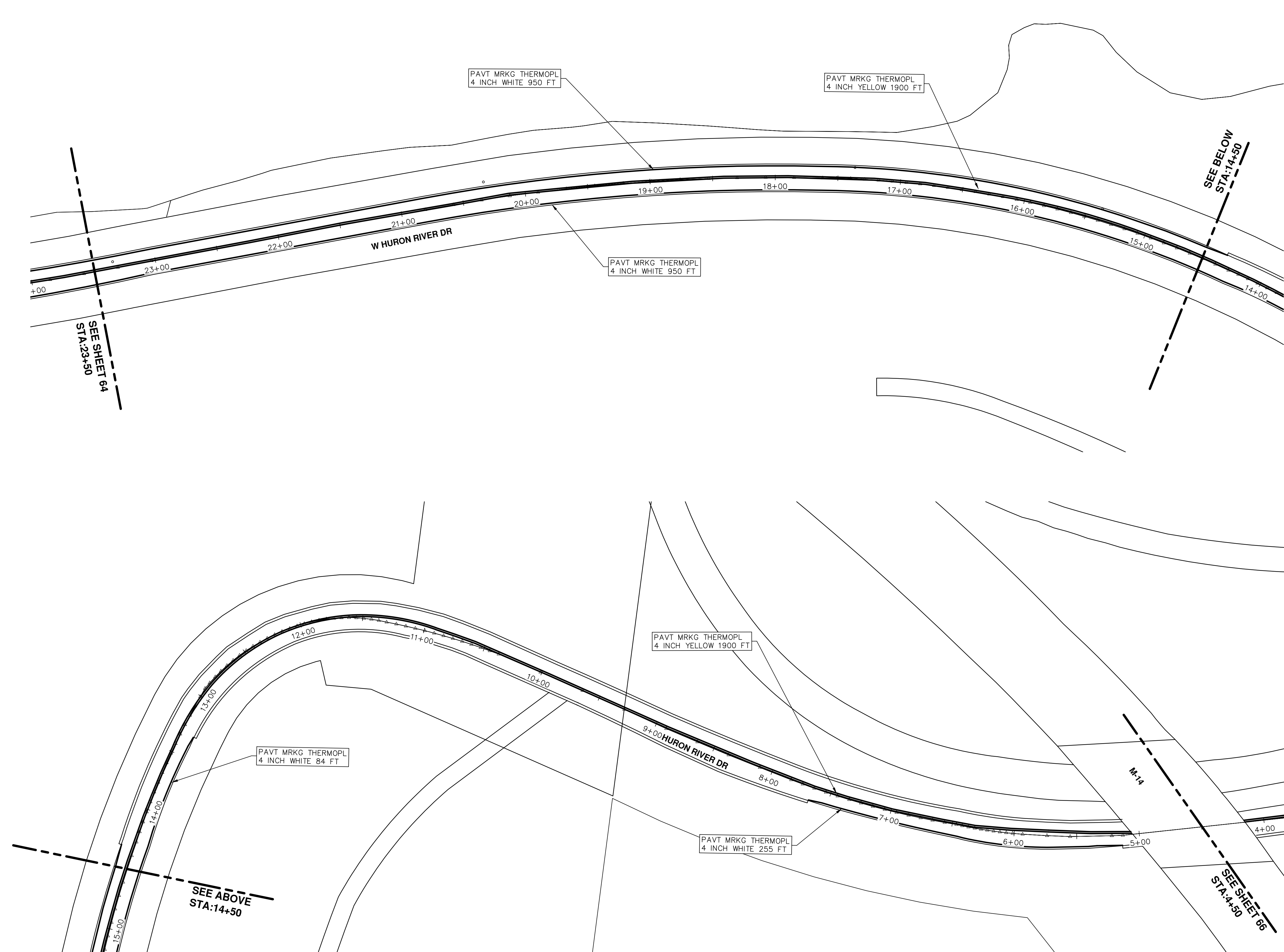
**PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR**  
**2016 ANNUAL RESURFACING**  
HURON RIVER DR  
PAVEMENT MARKINGS

SCALE PLAN: 1" = 40'  
DRAWING No. 2016004-63



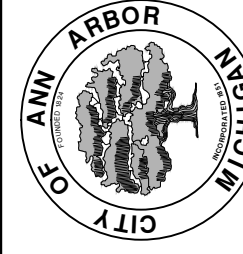


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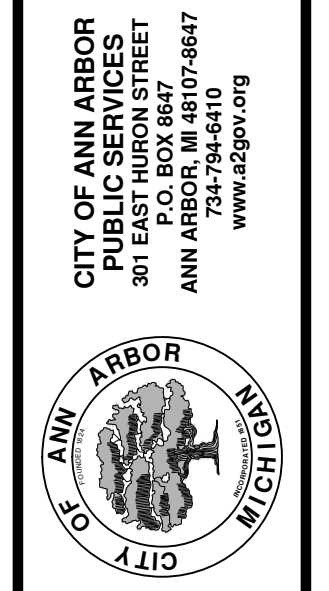
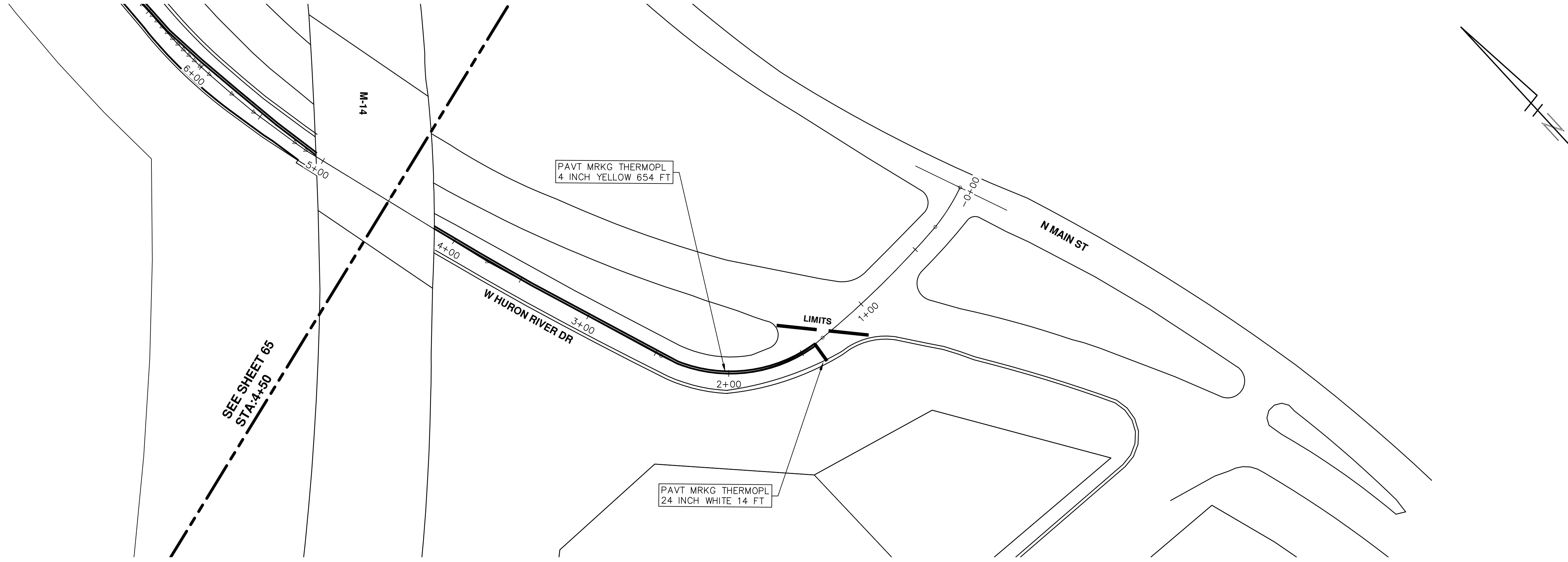
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00	BID SET	2-22-2016	SS AH JK	DAD

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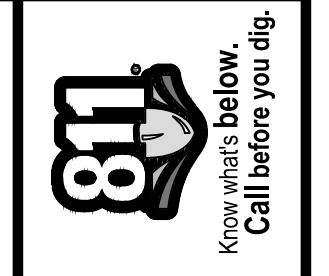
**PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR**  
**2016 ANNUAL RESURFACING**  
 HURON RIVER DR  
 PAVEMENT MARKINGS

SCALE PLAN: 1" = 40'  
 DRAWING No. 2016004-65



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00	BID SET	2-22-2016	SS AH JK	DAD





# CITY OF ANN ARBOR PROJECT MANAGEMENT 2016 ANNUAL RESURFACING PROJECT LOCATION: HILL ST

ITB No. 4422 FILE No. 2016004



S:\Project Management\Drafting\autocad\2016004\Plan Production\2016004-HILL.dwg Dwg Created: 16-Jan-16 - \_c2 standard bw.stb - Plot Date: 22-Feb-16

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	DESCRIPTION
C/G	REMOVE AND REPLACE CURB AND GUTTER
C/GHE	REMOVE CURB AND GUTTER, REPLACE WITH CONCRETE CURB AND GUTTER H.E.
C4HE	REMOVE EXISTING RAMP OR SIDEWALK. REPLACE WITH 4" SIDEWALK OR TYPE 1 SIDEWALK RAMP,H.E.
CR	REMOVE SIDEWALK, DRIVE OR RAMP.
AA	ADJUST MDOT TYPE A CASTINGS.
AB	ADJUST GATE VALVE BOX OR MONUMENT BOX.
ADST	ADDITIONAL DEPTH STRUCTURE REPAIR.
RRA	REMOVE AND REPLACE MDOT TYPE A CASTING ADJUST TO FINISH GRADE.
CPRHE	CONCRETE PAVEMENT REPAIR, H.E.
DS	CONSTRUCT 2, 3 OR 4' DIAM. DRAINAGE STRUCTURE.
PT	POINT STRUCTURE.
C4	REMOVE EXISTING RAMP OR SIDEWALK, REPLACE WITH 4" SIDEWALK OR RAMP.
C6	REMOVE EXISTING RAMP OR SIDEWALK, REPLACE WITH 6" SIDEWALK OR RAMP.
C8	PLACE 8" SIDEWALK OR RAMP ONLY
C HE	REMOVE EXISTING DRIVE APPROACH, RAMP OR SIDEWALK. REPLACE WITH 6" OR 8" APPROACH, RAMP,OR SIDEWALK, H.E.
CP	PLACE 4" SIDEWALK OR RAMP.
AK	ADJUST MDOT TYPE K CASTING.
TYPE II	MDOT TYPE II BARRICADE.
TYPE III	MDOT TYPE III BARRICADE.
RRK	REMOVE AND REPLACE MDOT TYPE K CASTING. ADJUST TO FINISH GRADE.
RS	RECONSTRUCT STRUCTURE.
RCP	REMOVE CONC. PAVEMENT - ANY THICKNESS
RCW	RAISED CROSSWALK

LEGEND	
SYMBOL	DESCRIPTION
⊙	EXISTING SANITARY SEWER MANHOLE
⊙	EXISTING STORM SEWER MANHOLE
⊗	EXISTING WATER MAIN VALVE IN WELL
+	WATER MAIN GATE VALVE IN BOX
⊕	FIRE HYDRANT
⊙	MICHCON GAS CO. VALVE BOX/WELL
⊙	AMERITECH TELEPHONE VAULT
⊙	ELECTRIC MANHOLE
⊕	SOIL BORING
□	EXISTING STORM SEWER INLET
⊠	MONUMENT BOX
▨	REMOVE AND REPLACE CONC. SIDEWALK
▨	PLACE CONCRETE SIDEWALK
—	REMOVE & REPLACE CONC. CURB & GUTTER
- - -	CONSTRUCTION LIMITS
- · - · -	6" WRAPPED UNDERDRAIN
▨	REMOVE CONCRETE SIDEWALK
▨	SUBGRADE UNDERCUT

### 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 1.5 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. ADJUST ALL STRUCTURE COVERS, MONUMENT BOXES,AND VALVE BOXES TO THEIR FINISHED ELEVATIONS.
10. PAVE 1.5 INCH OF THE BITUMINOUS MIX AS SPECIFIED OR DIRECTED, AS THE WEARING COURSE, IN ONE LIFT.
11. COMPLETE ALL PAVEMENT MARKINGS IN ACCORDANCE WITH THE PLANS, AND AS DIRECTED BY THE ENGINEER.
12. COMPLETE ALL MISCELLANEOUS CONSTRUCTION INCLUDING ALL CLEAN-UP AND FINAL RESTORATION.
13. 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 CONSTRUCTION COVERED BY THESE PLANS SHALL CONFORM TO THE 1994 EDITION OF THE CITY OF ANN ARBOR PUBLIC SERVICES DEPARTMENT STANDARD SPECIFICATIONS, IT'S DETAILS, WHICH ARE INCLUDED BY REFERENCE, AND THIS PROJECT'S CONTRACT DOCUMENTS. THE OMISSION OF ANY CURRENT STANDARD DETAIL DOES NOT RELIEVE THE CONTRACTOR FROM THIS REQUIREMENT.



**PROJECT MANAGEMENT SERVICES UNIT**  
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

PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR

2016 ANNUAL RESURFACING

HILL ST

PROJECT DESCRIPTION

DRAWING No.

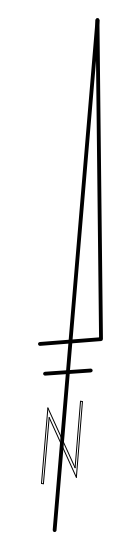
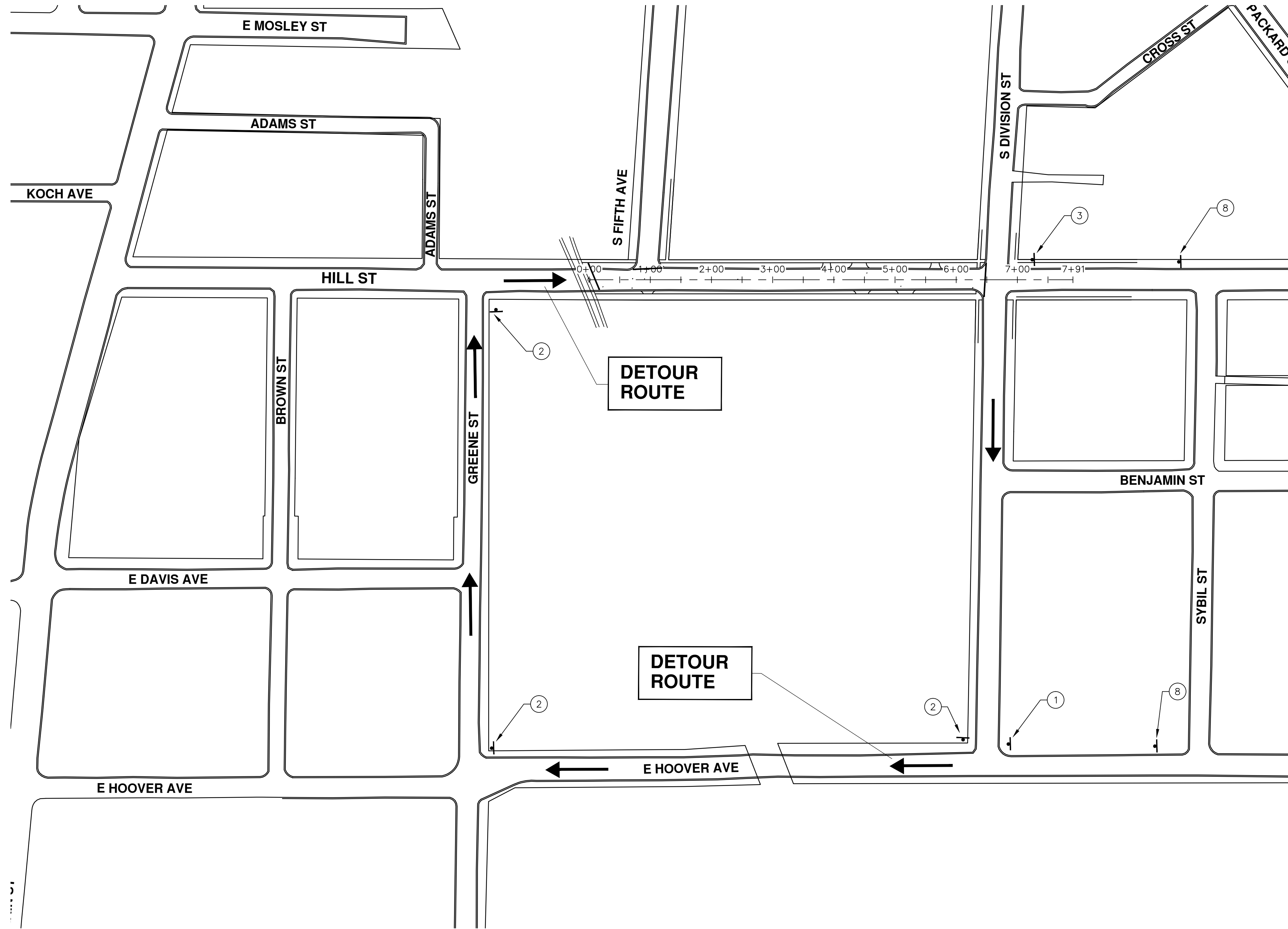
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67 OF 97

2016004-67

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TRAFFIC CONTROL SIGN		
TAG	SIGN	NUM.
①		D3-1 M4-9S 30x24
②		D3-1 M4-9R 30x24
③		D3-1 M4-9L 30x24
⑥		D3-1 M4-8a 24x18
⑦		R11-4 60x30
⑧		SPECIAL 48x60
⑨		SPECIAL 48x60

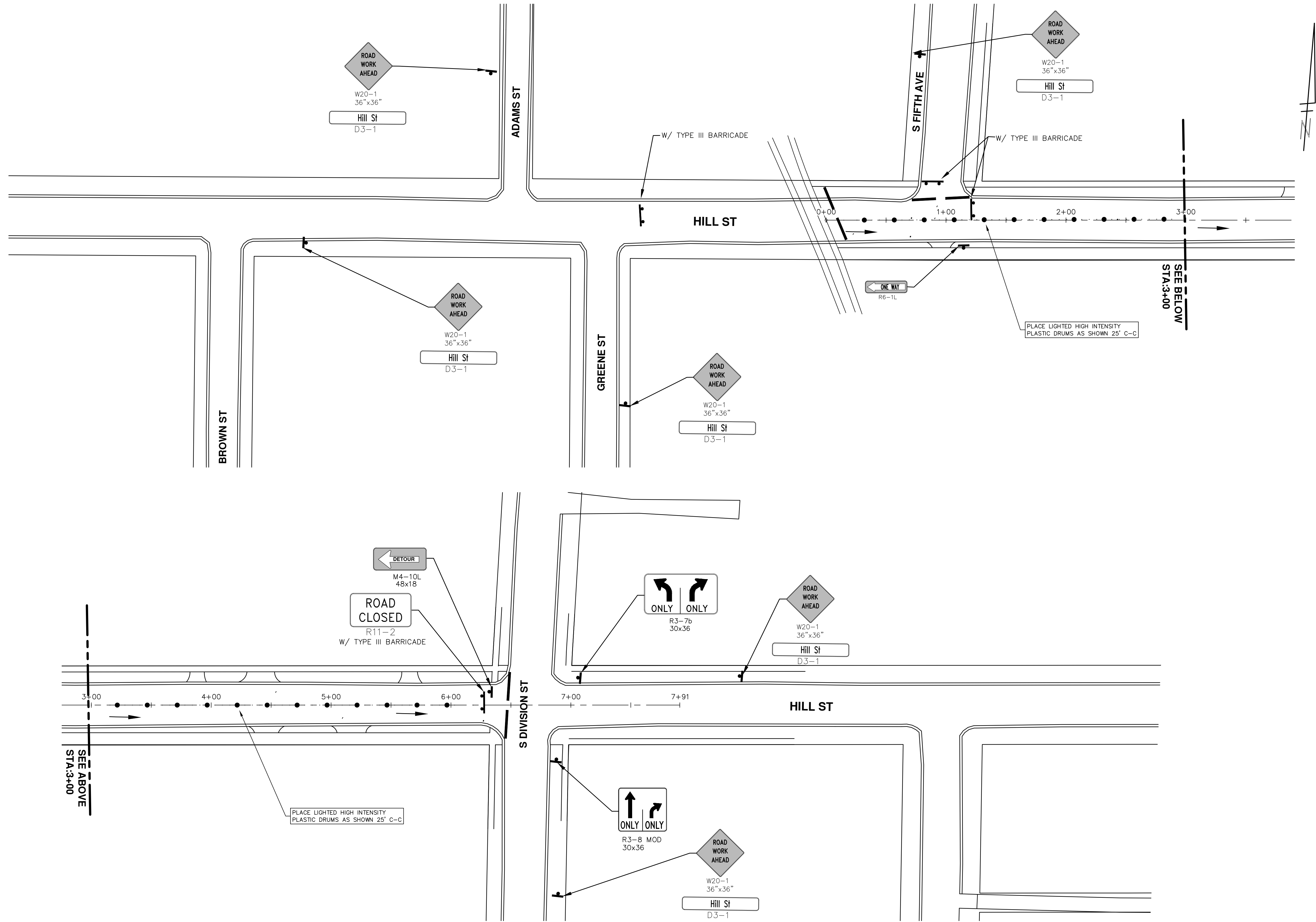



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04	DATE
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100	DATE

PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR  
 2016 ANNUAL RESURFACING  
 HILL ST  
 DETOUR  
 SCALE PLAN: 1" = 100'  
 DRAWING No. 2016004-68  
 SHEET No. 68 OF 97

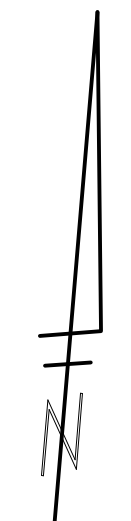
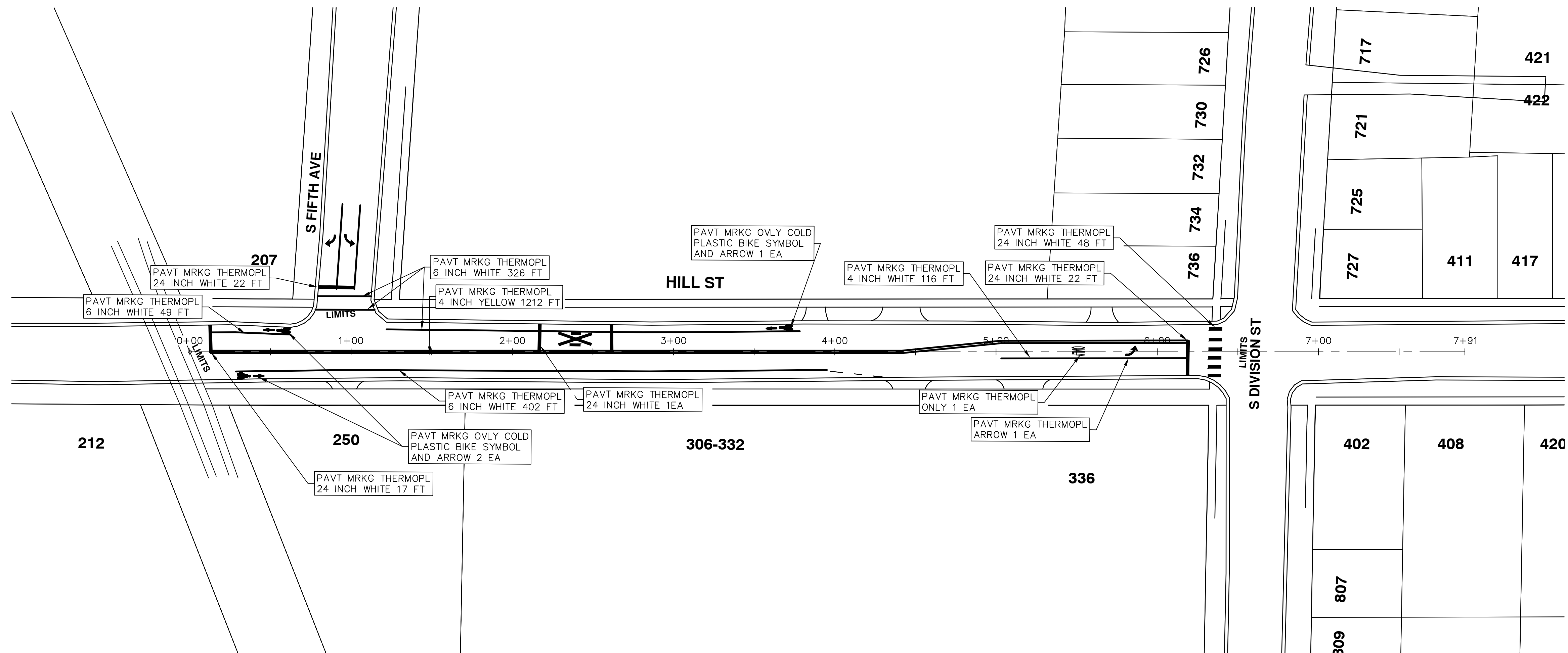
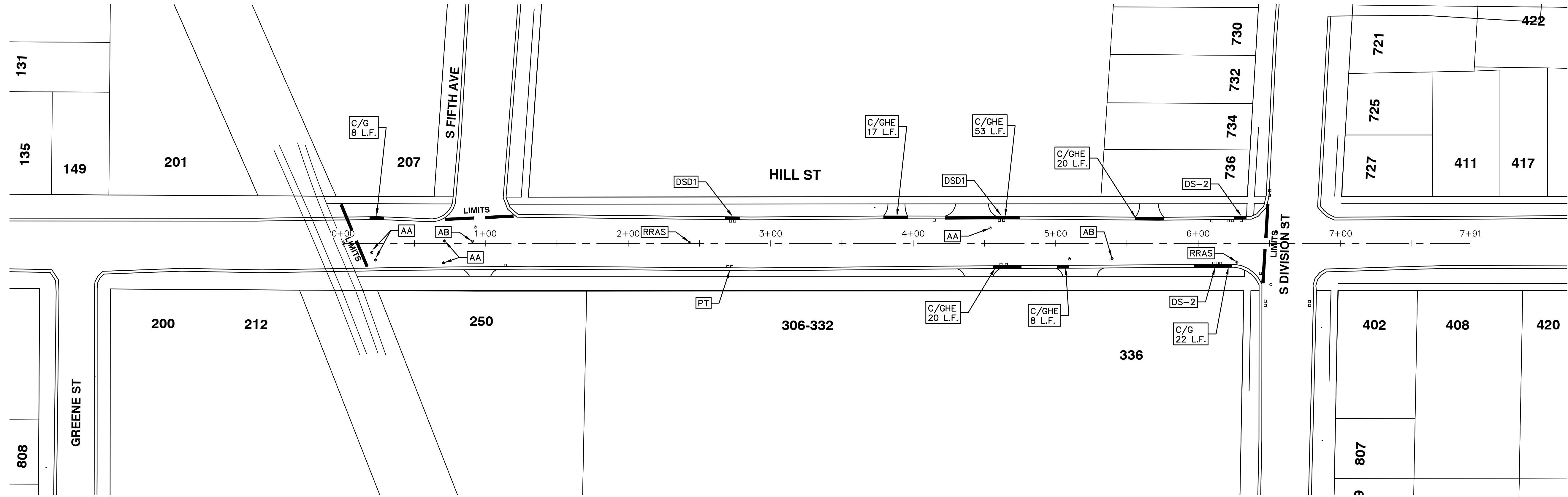
CITY OF ANN ARBOR  
 PUBLIC SERVICES  
 301 EAST HURON STREET  
 ANN ARBOR, MI 48106-3647  
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PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR 2016 ANNUAL RESURFACING HILL ST TRAFFIC CONTROL	REV. BID SET DATE DRAWN CHECKED
SCALE PLAN: 1" = 40' DRAWING No. 2016004-69	SHEET No. 69 OF 97

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



PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR  
2016 ANNUAL RESURFACING  
HILL ST  
RESURFACING & PAVEMENT MARKINGS

SCALE PLAN: 1" = 40'  
DRAWING No. 2016004-70

SHEET No. 70 OF 97

REV.	DESCRIPTION	DATE	DRAWN	CHECKED
00	BID SET	2-22-2016	SS AH UK	DAD



# CITY OF ANN ARBOR PROJECT MANAGEMENT 2016 ANNUAL RESURFACING

## PROJECT LOCATION: PACKARD RD & EISENHOWER PKWY

ITB No. 4422 FILE No. 2016004



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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	DESCRIPTION
C/G	REMOVE AND REPLACE CURB AND GUTTER
C/GHE	REMOVE CURB AND GUTTER, REPLACE WITH CONCRETE CURB AND GUTTER H.E.
C4HE	REMOVE EXISTING RAMP OR SIDEWALK. REPLACE WITH 4" SIDEWALK OR TYPE 1 SIDEWALK RAMP,H.E.
CR	REMOVE SIDEWALK, DRIVE OR RAMP.
AA	ADJUST MDOT TYPE A CASTINGS.
AB	ADJUST GATE VALVE BOX OR MONUMENT BOX.
ADST	ADDITIONAL DEPTH STRUCTURE REPAIR.
RRA	REMOVE AND REPLACE MDOT TYPE A CASTING ADJUST TO FINISH GRADE.
CPRHE	CONCRETE PAVEMENT REPAIR, H.E.
DS	CONSTRUCT 2, 3 OR 4' DIAM. DRAINAGE STRUCTURE.
PT	POINT STRUCTURE.
C4	REMOVE EXISTING RAMP OR SIDEWALK, REPLACE WITH 4" SIDEWALK OR RAMP.
C6	REMOVE EXISTING RAMP OR SIDEWALK, REPLACE WITH 6" SIDEWALK OR RAMP.
C8	PLACE 8" SIDEWALK OR RAMP ONLY
C HE	REMOVE EXISTING DRIVE APPROACH, RAMP OR SIDEWALK. REPLACE WITH 6" OR 8" APPROACH, RAMP,OR SIDEWALK, H.E.
CP	PLACE 4" SIDEWALK OR RAMP.
AK	ADJUST MDOT TYPE K CASTING.
TYPE II	MDOT TYPE II BARRICADE.
TYPE III	MDOT TYPE III BARRICADE.
RRK	REMOVE AND REPLACE MDOT TYPE K CASTING. ADJUST TO FINISH GRADE.
RS	RECONSTRUCT STRUCTURE.
RCP	REMOVE CONC. PAVEMENT - ANY THICKNESS
RCW	RAISED CROSSWALK

LEGEND	
SYMBOL	DESCRIPTION
⊙	EXISTING SANITARY SEWER MANHOLE
⊚	EXISTING STORM SEWER MANHOLE
⊗	EXISTING WATER MAIN VALVE IN WELL
+	WATER MAIN GATE VALVE IN BOX
⊕	FIRE HYDRANT
⊙	MICHCON GAS CO. VALVE BOX/WELL
⊙	AMERITECH TELEPHONE VAULT
⊙	ELECTRIC MANHOLE
⊕	SOIL BORING
□	EXISTING STORM SEWER INLET
⊠	MONUMENT BOX
▨	REMOVE AND REPLACE CONC. SIDEWALK
▨	PLACE CONCRETE SIDEWALK
— — —	REMOVE & REPLACE CONC. CURB & GUTTER
— — —	CONSTRUCTION LIMITS
— · —	6" WRAPPED UNDERDRAIN
▨	REMOVE CONCRETE SIDEWALK
▨	SUBGRADE UNDERCUT

### 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 1.5 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. ADJUST ALL STRUCTURE COVERS, MONUMENT BOXES,AND VALVE BOXES TO THEIR FINISHED ELEVATIONS.
10. PAVE 1.5 INCH OF THE BITUMINOUS MIX AS SPECIFIED OR DIRECTED, AS THE WEARING COURSE, IN ONE LIFT.
11. COMPLETE ALL PAVEMENT MARKINGS IN ACCORDANCE WITH THE PLANS, AND AS DIRECTED BY THE ENGINEER.
12. COMPLETE ALL MISCELLANEOUS CONSTRUCTION INCLUDING ALL CLEAN-UP AND FINAL RESTORATION.
13. 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 CONSTRUCTION COVERED BY THESE PLANS SHALL CONFORM TO THE 1994 EDITION OF THE CITY OF ANN ARBOR PUBLIC SERVICES DEPARTMENT STANDARD SPECIFICATIONS, IT'S DETAILS, WHICH ARE INCLUDED BY REFERENCE, AND THIS PROJECT'S CONTRACT DOCUMENTS. THE OMISSION OF ANY CURRENT STANDARD DETAIL DOES NOT RELIEVE THE CONTRACTOR FROM THIS REQUIREMENT.



**PROJECT MANAGEMENT SERVICES UNIT**  
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

PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR

2016 ANNUAL RESURFACING  
PACKARD RD & EISENHOWER PKWY

PROJECT DESCRIPTION

DRAWING No.  
2016004-71

SHEET No.  
71 OF 97

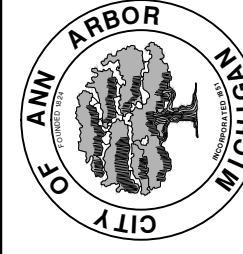
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TAG	SIGN	NUM.
①		D3-1 M4-9S 30x24
②		D3-1 M4-9R 30x24
③		D3-1 M4-9L 30x24
⑥		D3-1 M4-8a 24x18
⑦		R11-4 60x30
⑧		SPECIAL 48x60
⑨		SPECIAL 48x60
⑫		SPECIAL 48x60



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PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR  
2016 ANNUAL RESURFACING  
PACKARD RD & EISENHOWER PKWY  
DETOUR

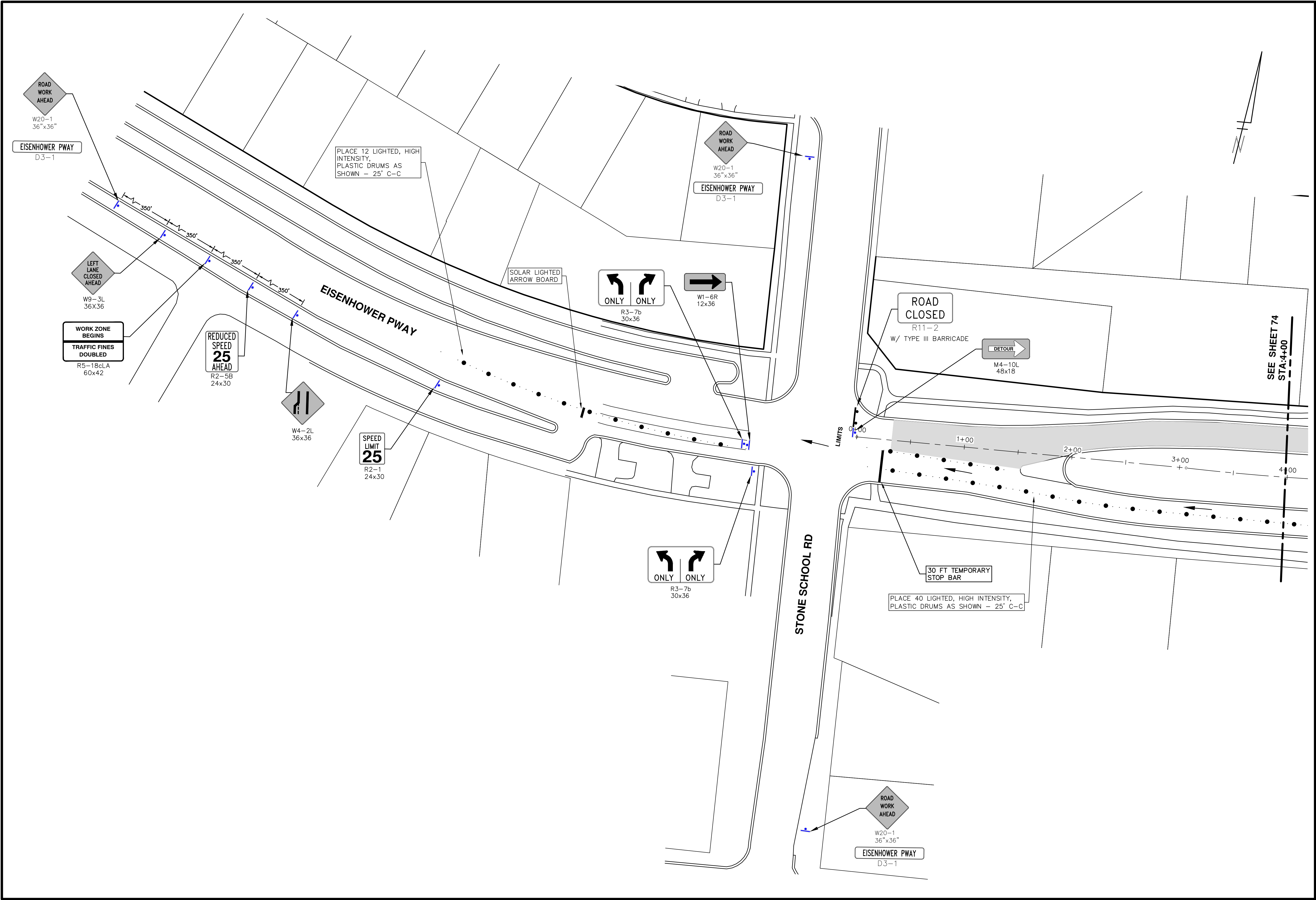
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DRAWING No. 2016004-72

SHEET No. 72 OF 97

REV.	DESCRIPTION	DATE	DRAWN	CHECKED
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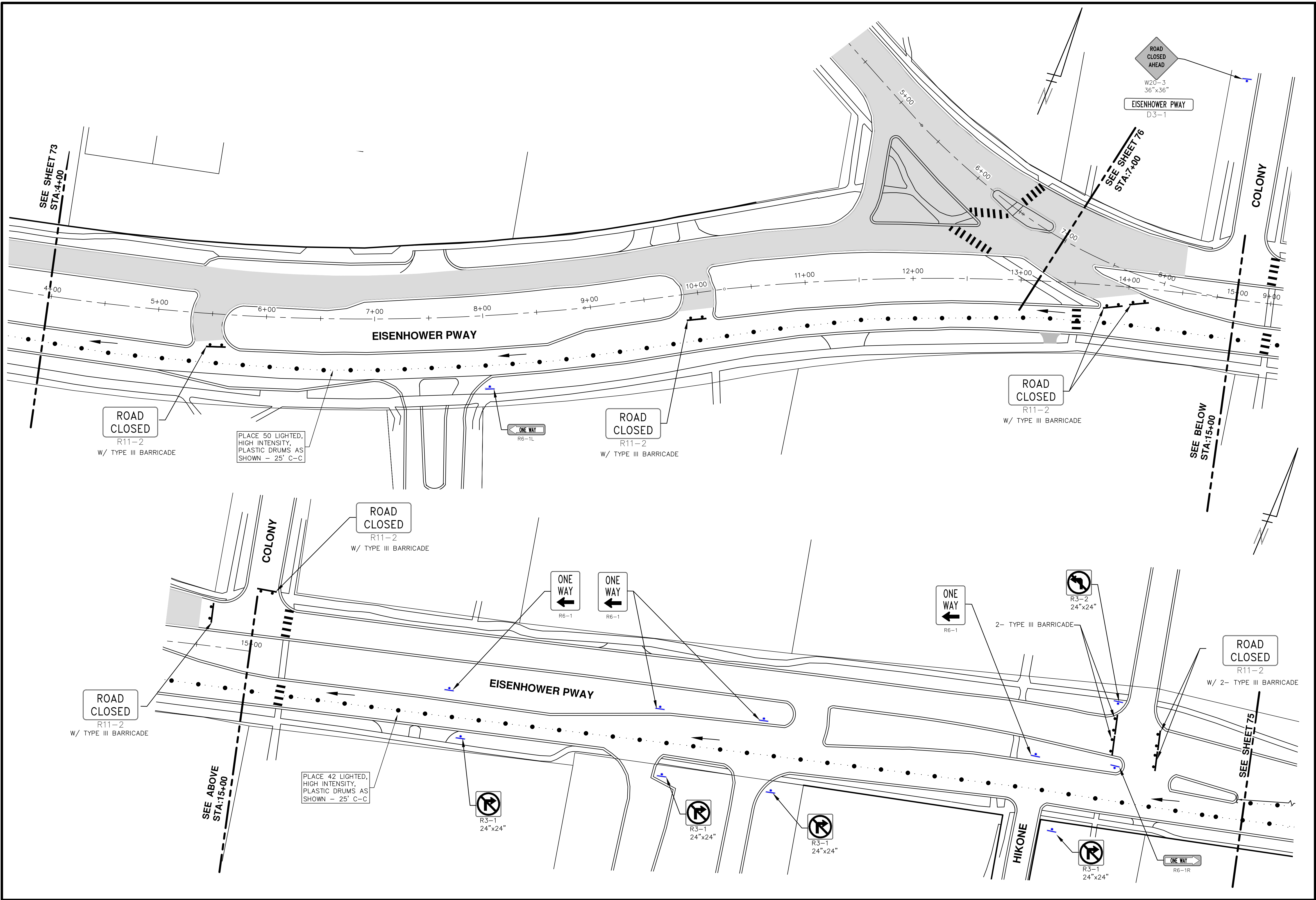


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<p><b>PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR</b> 2016 ANNUAL RESURFACING PACKARD RD &amp; EISENHOWER PKWY TRAFFIC CONTROL STAGE 1</p>	<p>City of Ann Arbor Public Services 301 East Huron Street Ann Arbor, MI 48106-6647 www.a2gov.org</p>
<p>SCALE PLAN: 1" = 40'</p>	<p>DATE: 2-22-2016</p>
<p>DRAWING No. 2016004-73</p>	<p>REV. 00</p>
<p>SHEET No. 73 OF 97</p>	<p>DESCRIPTION</p>
<p>DRAWN</p>	<p>CHECKED</p>
<p>DATE</p>	<p>DATE</p>
<p>DATE</p>	<p>DATE</p>
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**811**  
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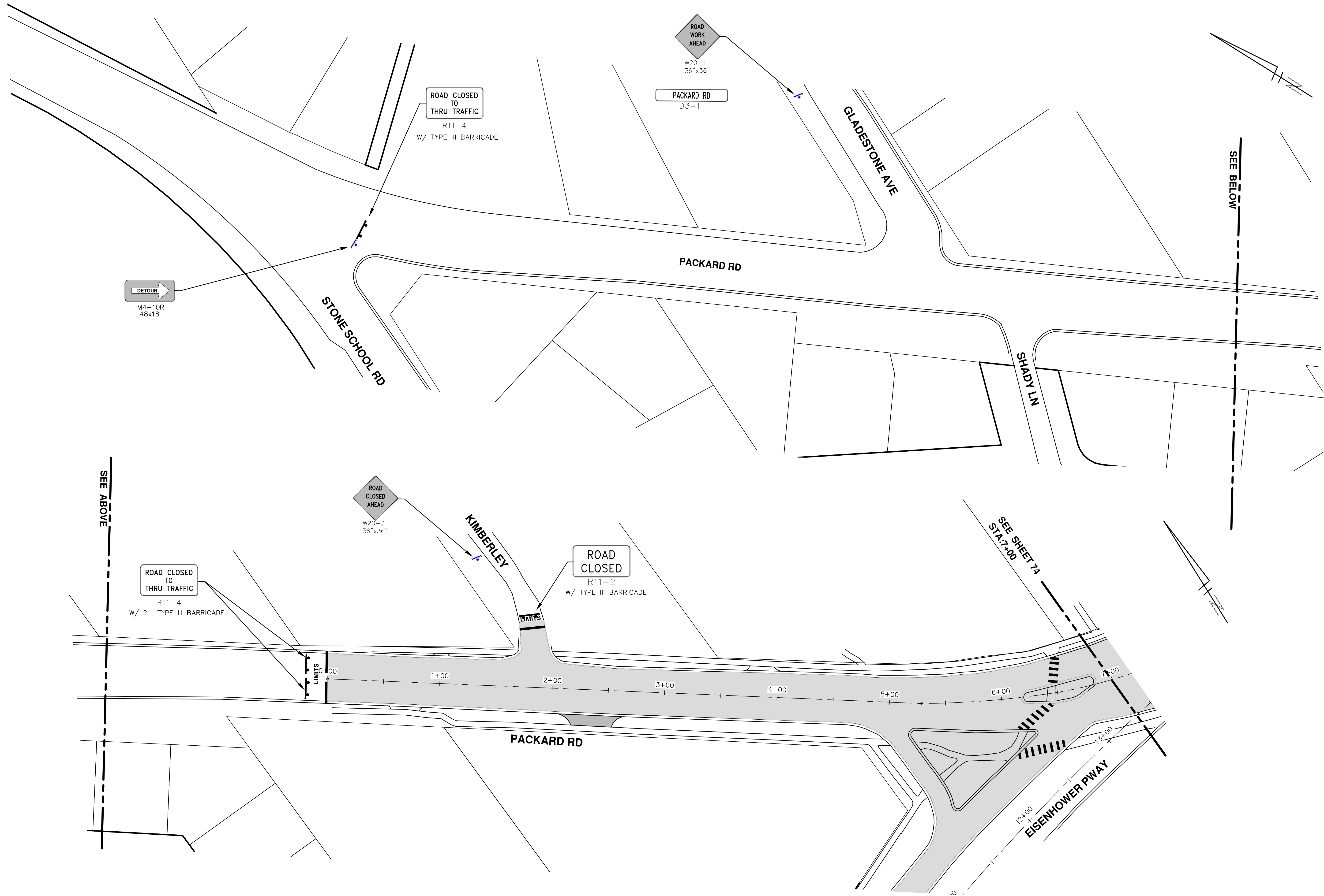
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**2016 ANNUAL RESURFACING**  
PACKARD RD & EISENHOWER PKWY  
TRAFFIC CONTROL STAGE 1

SCALE PLAN: 1" = 40'  
DRAWING No. 2016004-74  
SHEET No. 74 OF 97

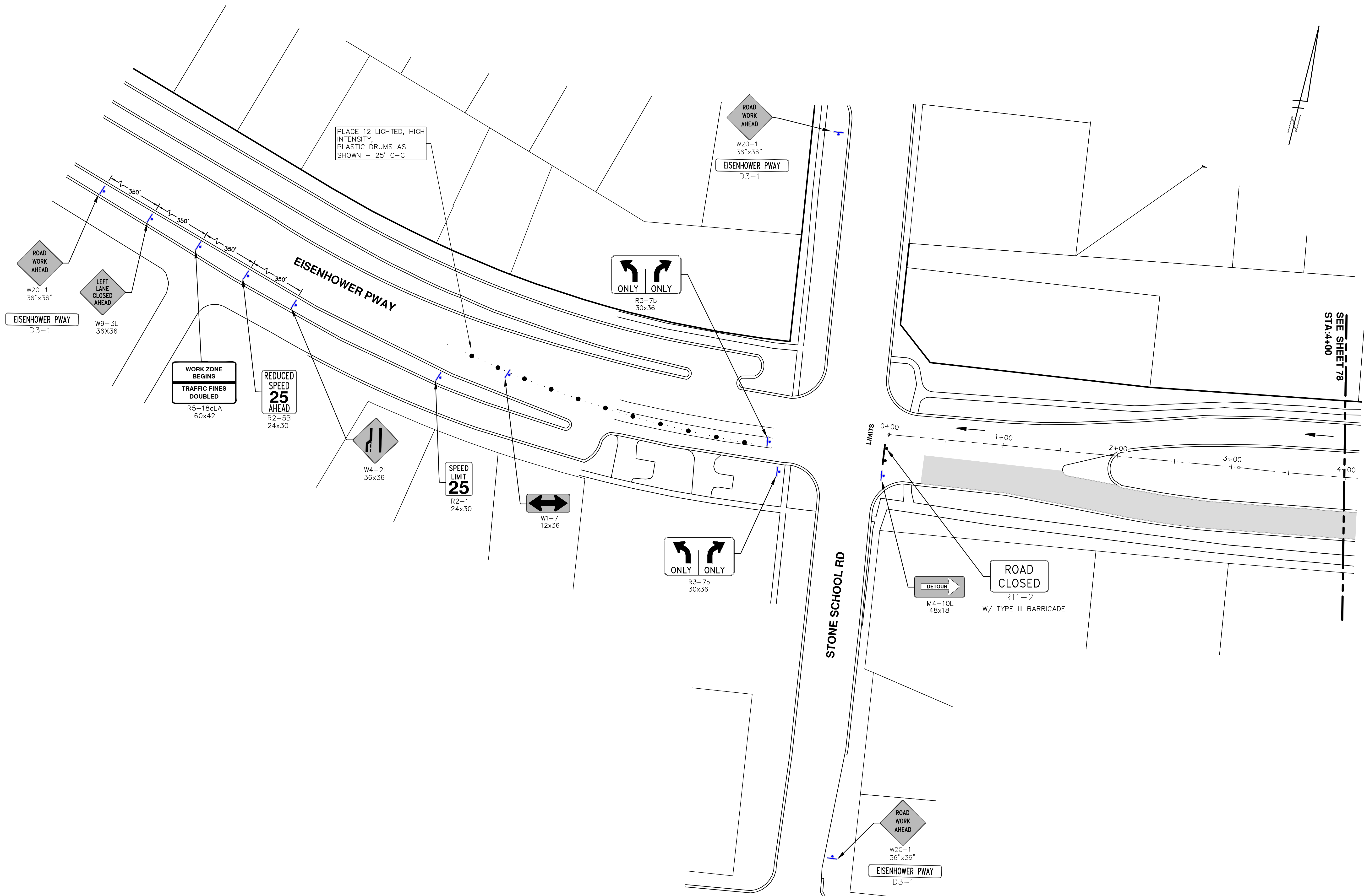


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PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR 2016 ANNUAL RESURFACING PACKARD RD & EISENHOWER PKWY TRAFFIC CONTROL STAGE 1	SCALE PLAN: 1" = 40' DRAWING No. 2016004-76
CITY OF ANN ARBOR PUBLIC SERVICES 301 EAST HURON STREET ANN ARBOR, MI 48106-1667 www.a2gov.org	REV. NO.    DATE    DRAWN    CHECKED 00    2-22-2016    GSS AH JK    DAD DESCRIPTION

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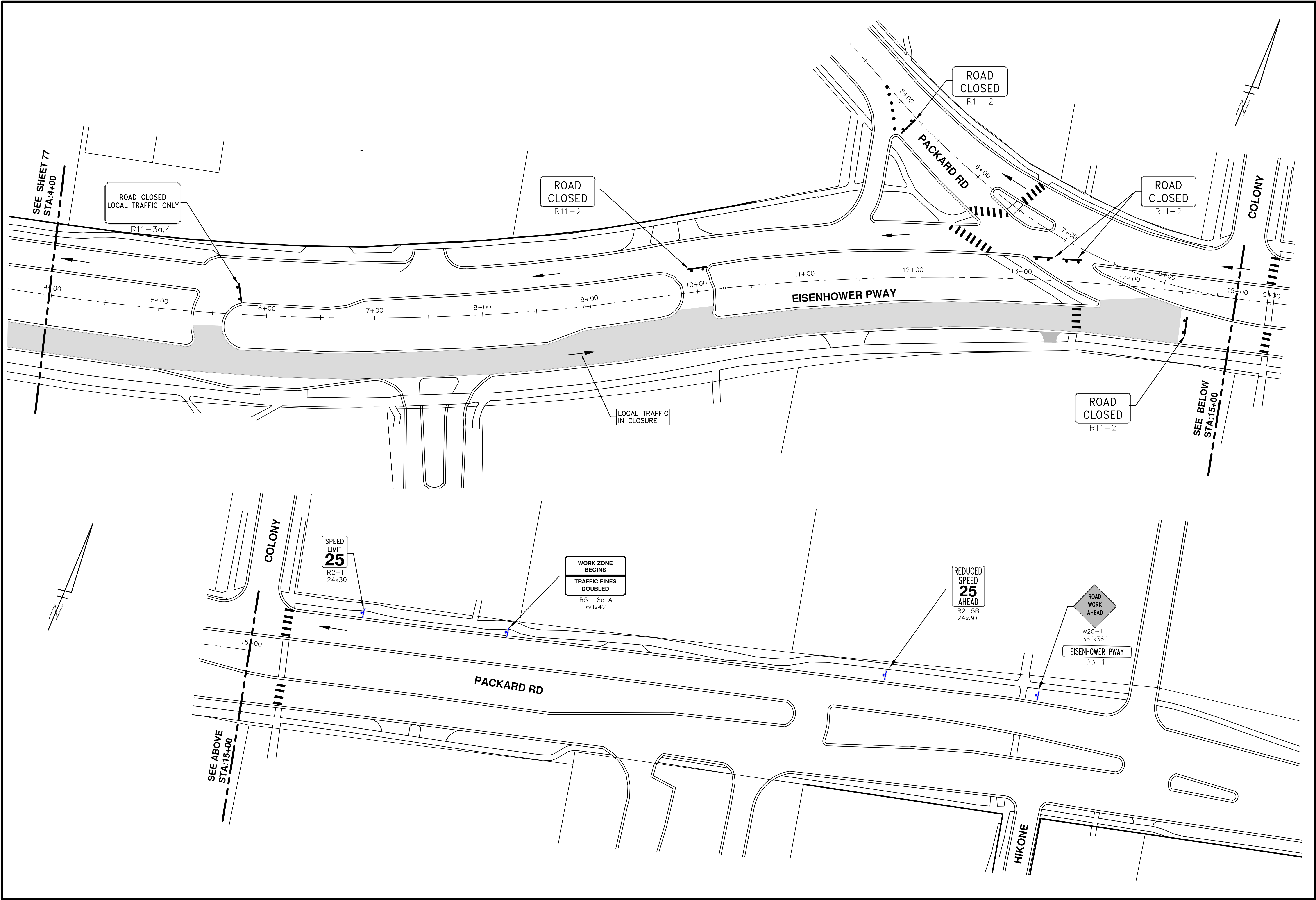
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PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR  
 2016 ANNUAL RESURFACING  
 PACKARD RD & EISENHOWER PKWY  
 TRAFFIC CONTROL STAGE II

SCALE PLAN: 1" = 40'  
 DRAWING No. 2016004-77

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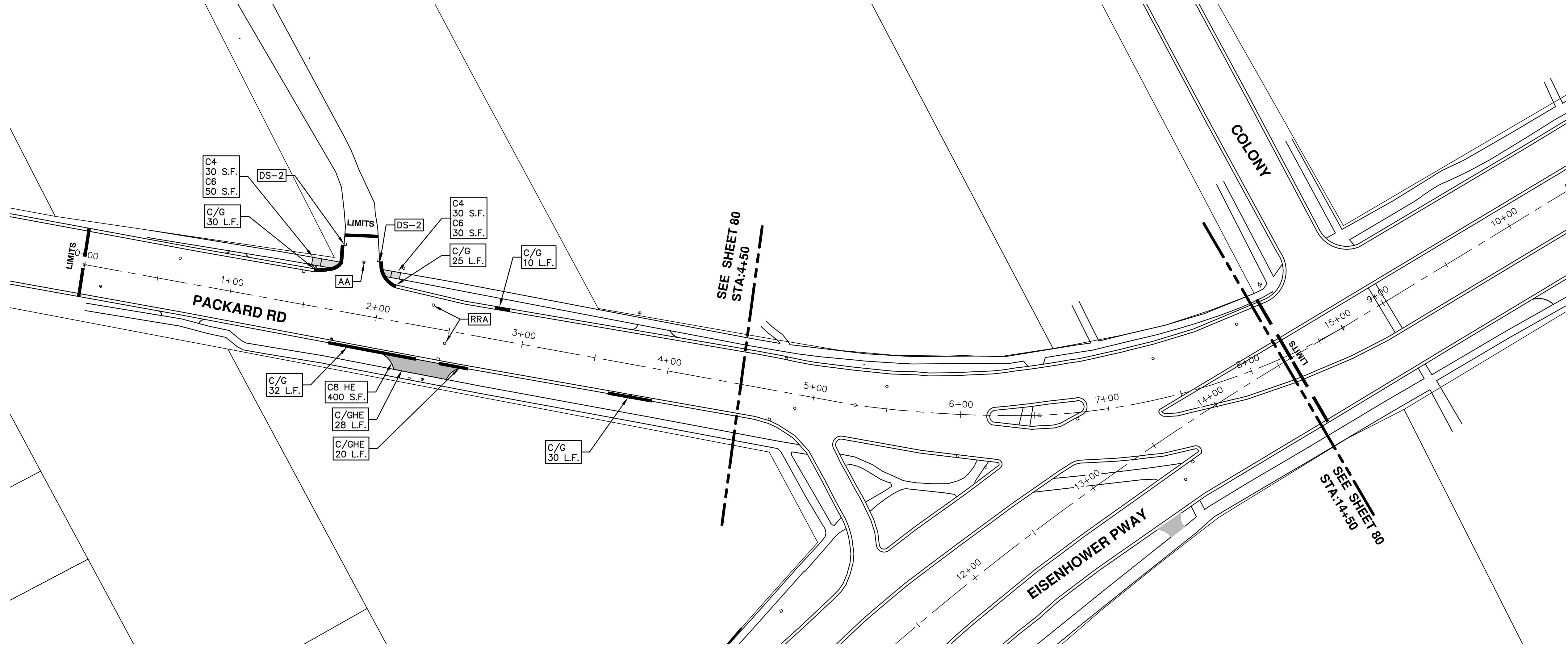
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**2016 ANNUAL RESURFACING**  
PACKARD RD & EISENHOWER PKWY  
TRAFFIC CONTROL STAGE II

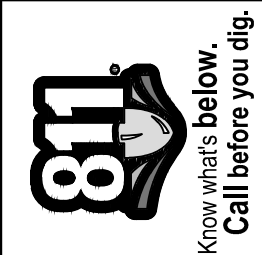
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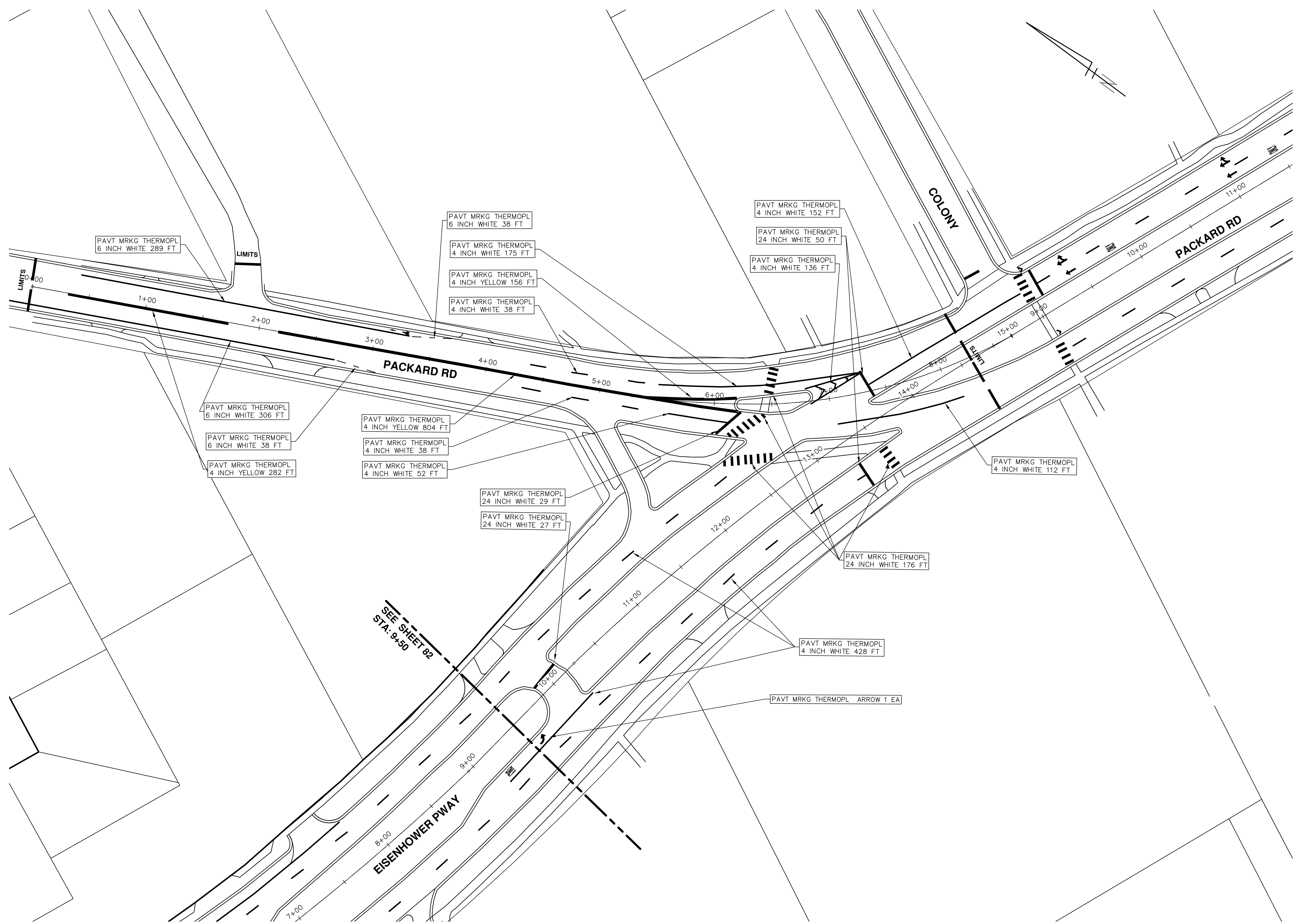
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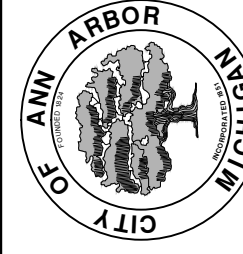


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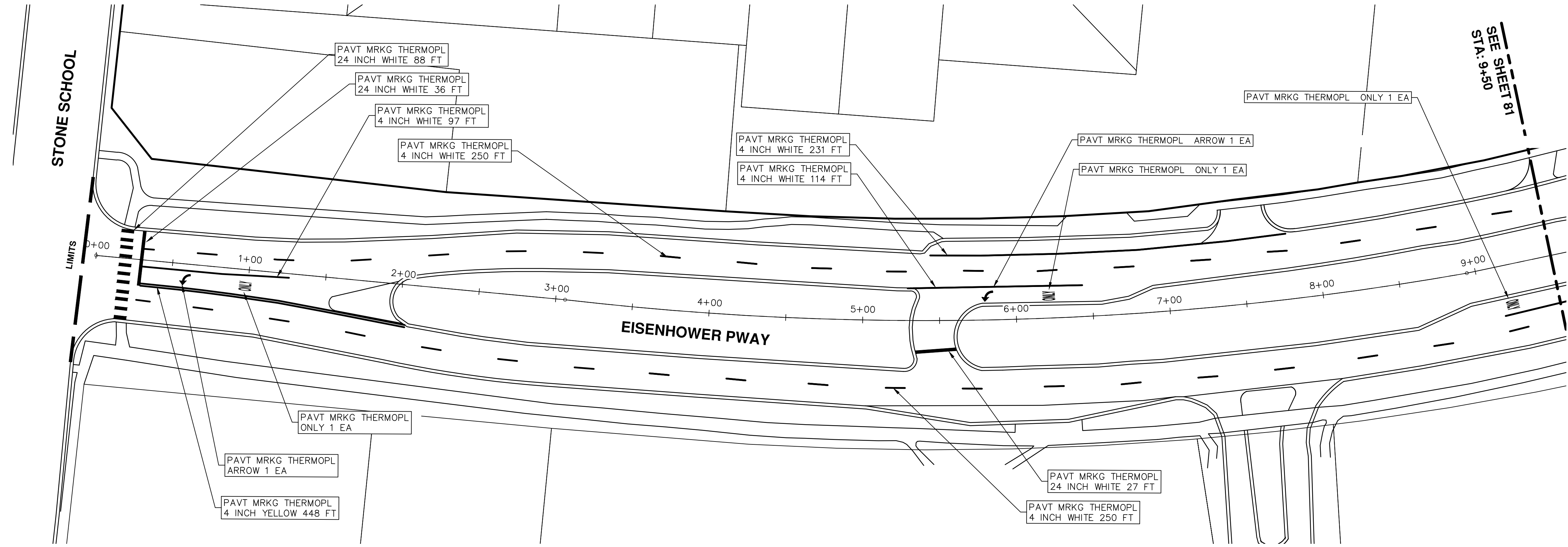
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**PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR**  
**2016 ANNUAL RESURFACING**  
PACKARD RD & EISENHOWER PKWY  
PAVEMENT MARKINGS

SCALE PLAN: 1" = 40'  
DRAWING No. 2016004-61

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SHEET No.  
**82 OF 97**

**PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR**  
 SCALE PLAN: 1" = 40'  
**2016 ANNUAL RESURFACING**  
 PACKARD RD & EISENHOWER PKWY  
 DRAWING No.  
**2016004-82**



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# CITY OF ANN ARBOR PROJECT MANAGEMENT 2016 ANNUAL RESURFACING PROJECT LOCATION: TACOMA CIR

ITB No. 4422 FILE No. 2016004



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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	DESCRIPTION
C/G	REMOVE AND REPLACE CURB AND GUTTER
C/GHE	REMOVE CURB AND GUTTER, REPLACE WITH CONCRETE CURB AND GUTTER H.E.
C4HE	REMOVE EXISTING RAMP OR SIDEWALK. REPLACE WITH 4" SIDEWALK OR TYPE 1 SIDEWALK RAMP,H.E.
CR	REMOVE SIDEWALK, DRIVE OR RAMP.
AA	ADJUST MDOT TYPE A CASTINGS.
AB	ADJUST GATE VALVE BOX OR MONUMENT BOX.
ADST	ADDITIONAL DEPTH STRUCTURE REPAIR.
RRA	REMOVE AND REPLACE MDOT TYPE A CASTING ADJUST TO FINISH GRADE.
CPRHE	CONCRETE PAVEMENT REPAIR, H.E.
DS	CONSTRUCT 2, 3 OR 4' DIAM. DRAINAGE STRUCTURE.
PT	POINT STRUCTURE.
C4	REMOVE EXISTING RAMP OR SIDEWALK, REPLACE WITH 4" SIDEWALK OR RAMP.
C6	REMOVE EXISTING RAMP OR SIDEWALK, REPLACE WITH 6" SIDEWALK OR RAMP.
C8	PLACE 8" SIDEWALK OR RAMP ONLY
C HE	REMOVE EXISTING DRIVE APPROACH, RAMP OR SIDEWALK. REPLACE WITH 6" OR 8" APPROACH, RAMP,OR SIDEWALK, H.E.
CP	PLACE 4" SIDEWALK OR RAMP.
AK	ADJUST MDOT TYPE K CASTING.
TYPE II	MDOT TYPE II BARRICADE.
TYPE III	MDOT TYPE III BARRICADE.
RRK	REMOVE AND REPLACE MDOT TYPE K CASTING. ADJUST TO FINISH GRADE.
RS	RECONSTRUCT STRUCTURE.
RCP	REMOVE CONC. PAVEMENT - ANY THICKNESS
RCW	RAISED CROSSWALK

LEGEND	
SYMBOL	DESCRIPTION
⊕	EXISTING SANITARY SEWER MANHOLE
⊙	EXISTING STORM SEWER MANHOLE
⊗	EXISTING WATER MAIN VALVE IN WELL
+	WATER MAIN GATE VALVE IN BOX
⊕	FIRE HYDRANT
⊕	MICHCON GAS CO. VALVE BOX/WELL
⊕	AMERITECH TELEPHONE VAULT
⊕	ELECTRIC MANHOLE
⊕	SOIL BORING
□	EXISTING STORM SEWER INLET
⊕	MONUMENT BOX
▭	REMOVE AND REPLACE CONC. SIDEWALK
▭	PLACE CONCRETE SIDEWALK
—	REMOVE & REPLACE CONC. CURB & GUTTER
- - -	CONSTRUCTION LIMITS
- · -	6" WRAPPED UNDERDRAIN
▨	REMOVE CONCRETE SIDEWALK
▨	SUBGRADE UNDERCUT

### 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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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 3.5 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 1.5 INCH OF THE BITUMINOUS MIX AS SPECIFIED OR DIRECTED, AS THE WEARING COURSE, IN ONE LIFT.
12. COMPLETE ALL PAVEMENT MARKINGS IN ACCORDANCE WITH THE PLANS, AND AS DIRECTED BY THE ENGINEER.
13. COMPLETE ALL MISCELLANEOUS CONSTRUCTION INCLUDING ALL CLEAN-UP AND FINAL RESTORATION.
14. REMOVE ALL TRAFFIC CONTROL DEVICES. REMOVE MISS DIG FLAGS.

### NOTES:

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

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

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**PROJECT MANAGEMENT SERVICES UNIT**  
CITY OF ANN ARBOR PUBLIC SERVICES  
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PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR

2016 ANNUAL RESURFACING

TACOMA CIR

PROJECT DESCRIPTION

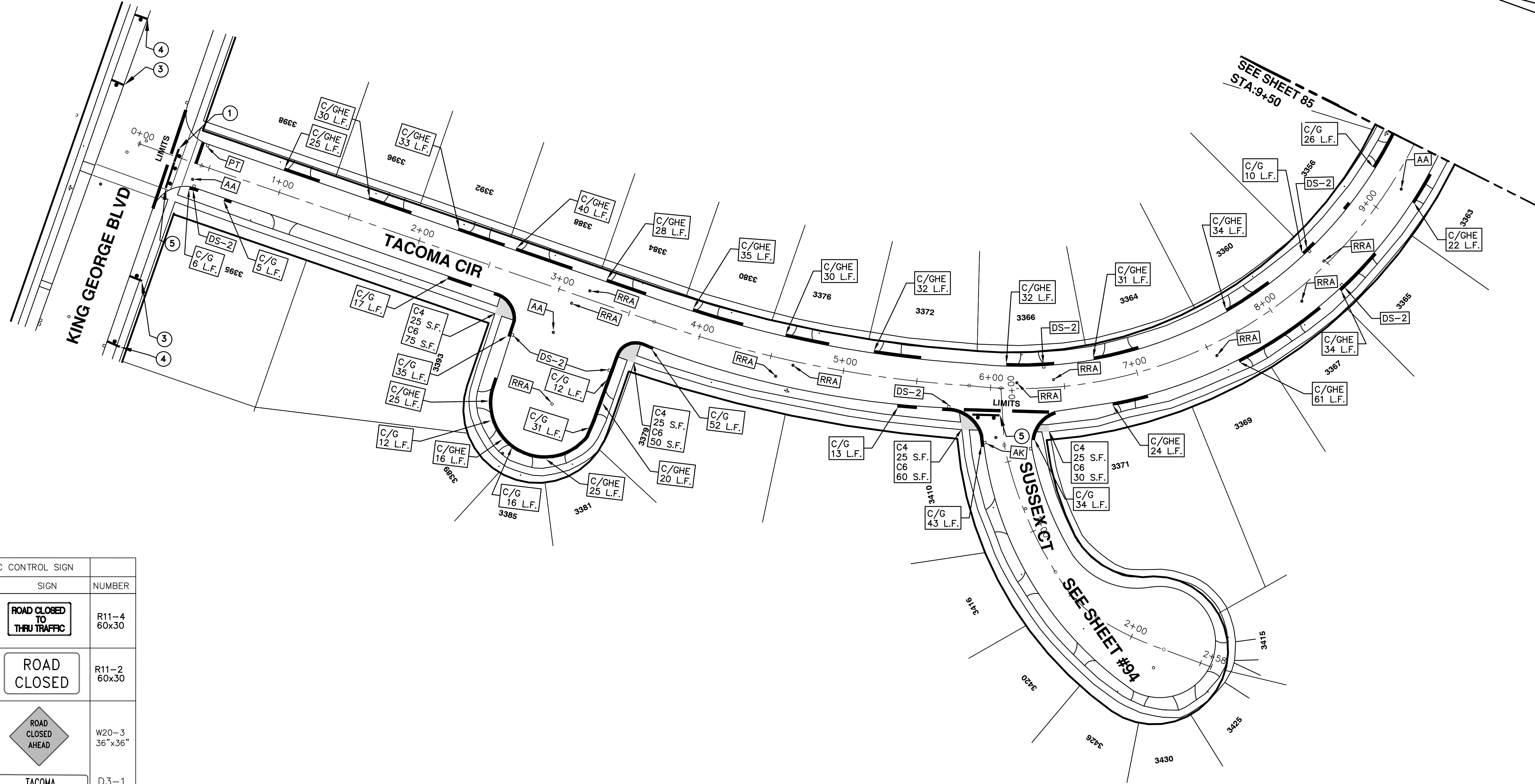
DRAWING No.

2016004-93

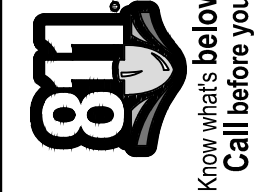
SHEET No.

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TRAFFIC CONTROL SIGN		
	SIGN	NUMBER
①		R11-4 60x30
②		R11-2 60x30
③		W20-3 36"x36"
		D3-1
④		W20-1 36"x36"
		D3-1
⑤	W/ TYPE III BARRICADE	



REV.	DESCRIPTION	DATE	DRAWN	CHECKED
00	BID SET	2-22-2016	GS AH JK	DAD

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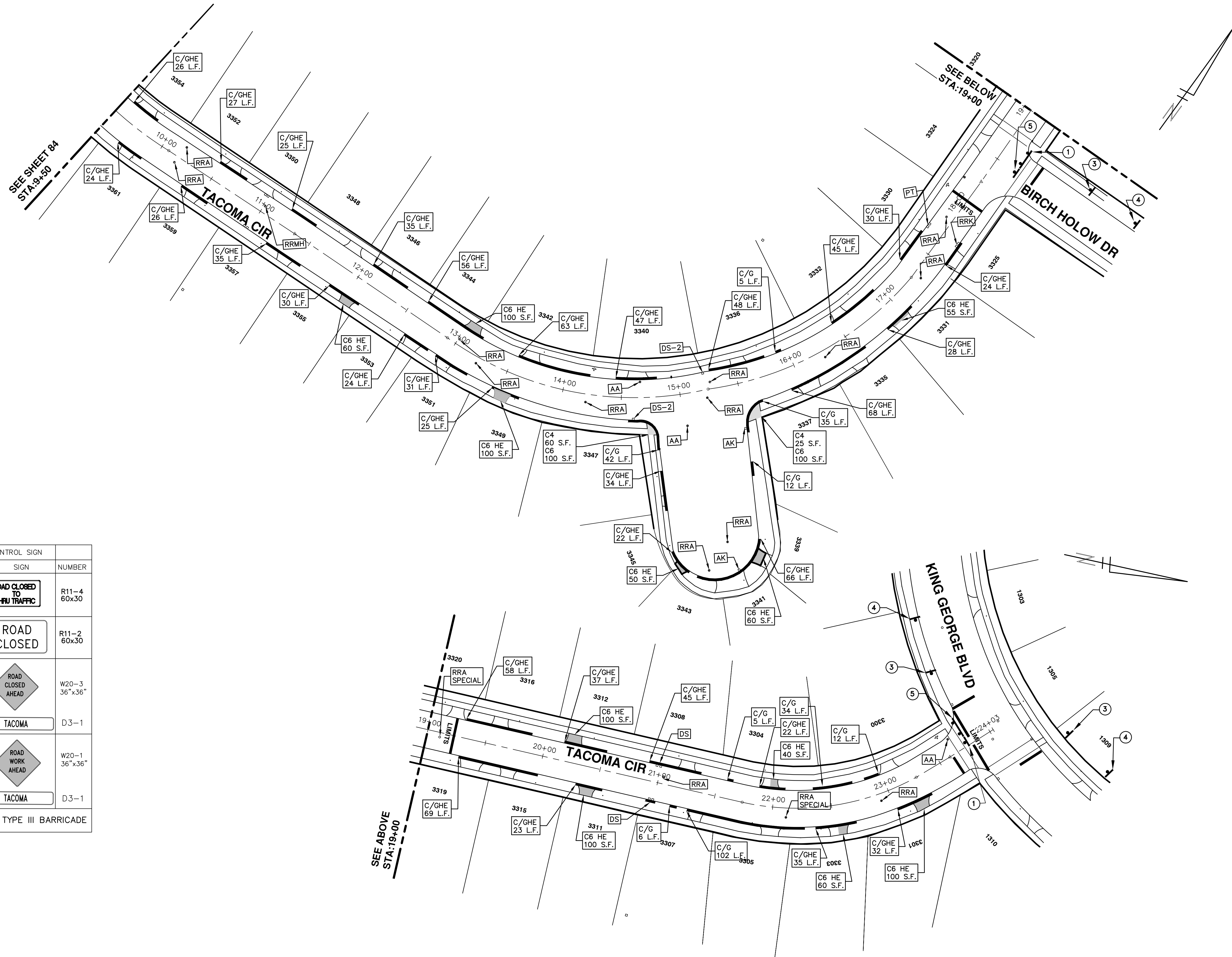


**PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR**  
**2016 ANNUAL RESURFACING**  
TACOMA CIR  
RESURFACING

SCALE PLAN: 1" = 40'  
DRAWING No. 2016004-84

S:\Project Management\Drafting\autocad\2016004\Plan Production\2016004-TACOMA CIR.dwg Dwg Created: 30-Nov-15 - \_a2 standard bw.stb - Plot Date: 22-Feb-16

TRAFFIC CONTROL SIGN		
	SIGN	NUMBER
①		R11-4 60x30
②		R11-2 60x30
③		W20-3 36"x36"
		D3-1
④		W20-1 36"x36"
		D3-1
⑤	W/ TYPE III BARRICADE	



**PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR**  
**2016 ANNUAL RESURFACING**  
 TACOMA CIR  
 RESURFACING

SCALE PLAN: 1" = 40'  
 DRAWING No. 2016004-85  
 SHEET No. 85 OF 97

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

CITY OF ANN ARBOR  
 PUBLIC SERVICES  
 301 EAST HURON STREET  
 P.O. BOX 86410  
 ANN ARBOR, MI 48108-6647  
 www.a2gov.org

CITY OF ANN ARBOR MICHIGAN

REV.	DATE	DESCRIPTION	DRAWN	CHECKED
00	2-22-2016		SS AH UK	DAD



# CITY OF ANN ARBOR PROJECT MANAGEMENT 2016 ANNUAL RESURFACING

## PROJECT LOCATION: BIRCH HOLLOW DR

ITB No. 4422 FILE No. 2016004



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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	DESCRIPTION
C/G	REMOVE AND REPLACE CURB AND GUTTER
C/GHE	REMOVE CURB AND GUTTER, REPLACE WITH CONCRETE CURB AND GUTTER H.E.
C4HE	REMOVE EXISTING RAMP OR SIDEWALK. REPLACE WITH 4" SIDEWALK OR TYPE 1 SIDEWALK RAMP,H.E.
CR	REMOVE SIDEWALK, DRIVE OR RAMP.
AA	ADJUST MDOT TYPE A CASTINGS.
AB	ADJUST GATE VALVE BOX OR MONUMENT BOX.
ADST	ADDITIONAL DEPTH STRUCTURE REPAIR.
RRA	REMOVE AND REPLACE MDOT TYPE A CASTING ADJUST TO FINISH GRADE.
CPRHE	CONCRETE PAVEMENT REPAIR, H.E.
DS	CONSTRUCT 2, 3 OR 4' DIAM. DRAINAGE STRUCTURE.
PT	POINT STRUCTURE.
C4	REMOVE EXISTING RAMP OR SIDEWALK, REPLACE WITH 4" SIDEWALK OR RAMP.
C6	REMOVE EXISTING RAMP OR SIDEWALK, REPLACE WITH 6" SIDEWALK OR RAMP.
C8	PLACE 8" SIDEWALK OR RAMP ONLY
C HE	REMOVE EXISTING DRIVE APPROACH, RAMP OR SIDEWALK. REPLACE WITH 6" OR 8" APPROACH, RAMP,OR SIDEWALK, H.E.
CP	PLACE 4" SIDEWALK OR RAMP.
AK	ADJUST MDOT TYPE K CASTING.
TYPE II	MDOT TYPE II BARRICADE.
TYPE III	MDOT TYPE III BARRICADE.
RRK	REMOVE AND REPLACE MDOT TYPE K CASTING. ADJUST TO FINISH GRADE.
RS	RECONSTRUCT STRUCTURE.
RCP	REMOVE CONC. PAVEMENT - ANY THICKNESS
RCW	RAISED CROSSWALK

LEGEND	
SYMBOL	DESCRIPTION
⊙	EXISTING SANITARY SEWER MANHOLE
⊚	EXISTING STORM SEWER MANHOLE
⊗	EXISTING WATER MAIN VALVE IN WELL
+	WATER MAIN GATE VALVE IN BOX
⊕	FIRE HYDRANT
⊙	MICHCON GAS CO. VALVE BOX/WELL
⊙	AMERITECH TELEPHONE VAULT
⊙	ELECTRIC MANHOLE
⊕	SOIL BORING
□	EXISTING STORM SEWER INLET
⊠	MONUMENT BOX
▬	REMOVE AND REPLACE CONC. SIDEWALK
▬	PLACE CONCRETE SIDEWALK
▬	REMOVE & REPLACE CONC. CURB & GUTTER
---	CONSTRUCTION LIMITS
---	6" WRAPPED UNDERDRAIN
▨	REMOVE CONCRETE SIDEWALK
▨	SUBGRADE UNDERCUT

### 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 3.5 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 1.5 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 BE ROUTINELY NOTIFIED. THIS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF NOTIFYING UTILITY OWNERS WHO MAY NOT BE A PART OF THE "MISS DIG" ALERT SYSTEM.

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

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



**PROJECT MANAGEMENT SERVICES UNIT**  
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

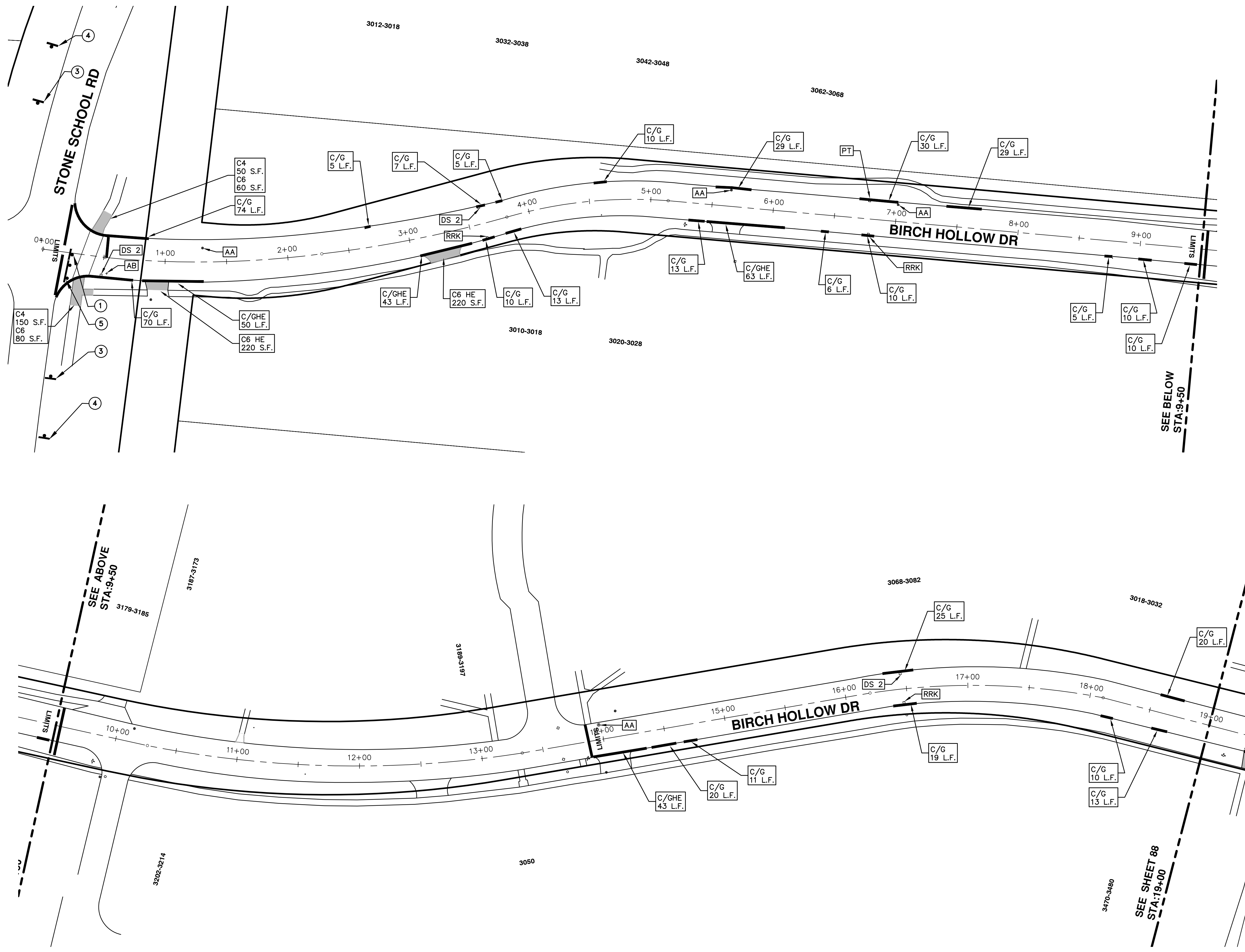
PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR

2016 ANNUAL RESURFACING

BIRCH HOLLOW DR

DRAWING No. 2016004-96  
SHEET No. 86 OF 97

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TRAFFIC CONTROL SIGN		
	SIGN	NUMBER
①	ROAD CLOSED TO THRU TRAFFIC	R11-4 60x30
②	ROAD CLOSED	R11-2 60x30
③	ROAD CLOSED AHEAD BIRCHHOLLOW	W20-3 36"x36" D3-1
④	ROAD WORK AHEAD BIRCHHOLLOW	W20-1 36"x36" D3-1
⑤	W/ TYPE III BARRICADE	

**PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR**  
 2016 ANNUAL RESURFACING  
 BIRCH HOLLOW DR  
 RESURFACING

SCALE PLAN: 1" = 40'  
 DRAWING No. 2016004-87






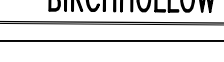
SHEET No. 87 OF 97

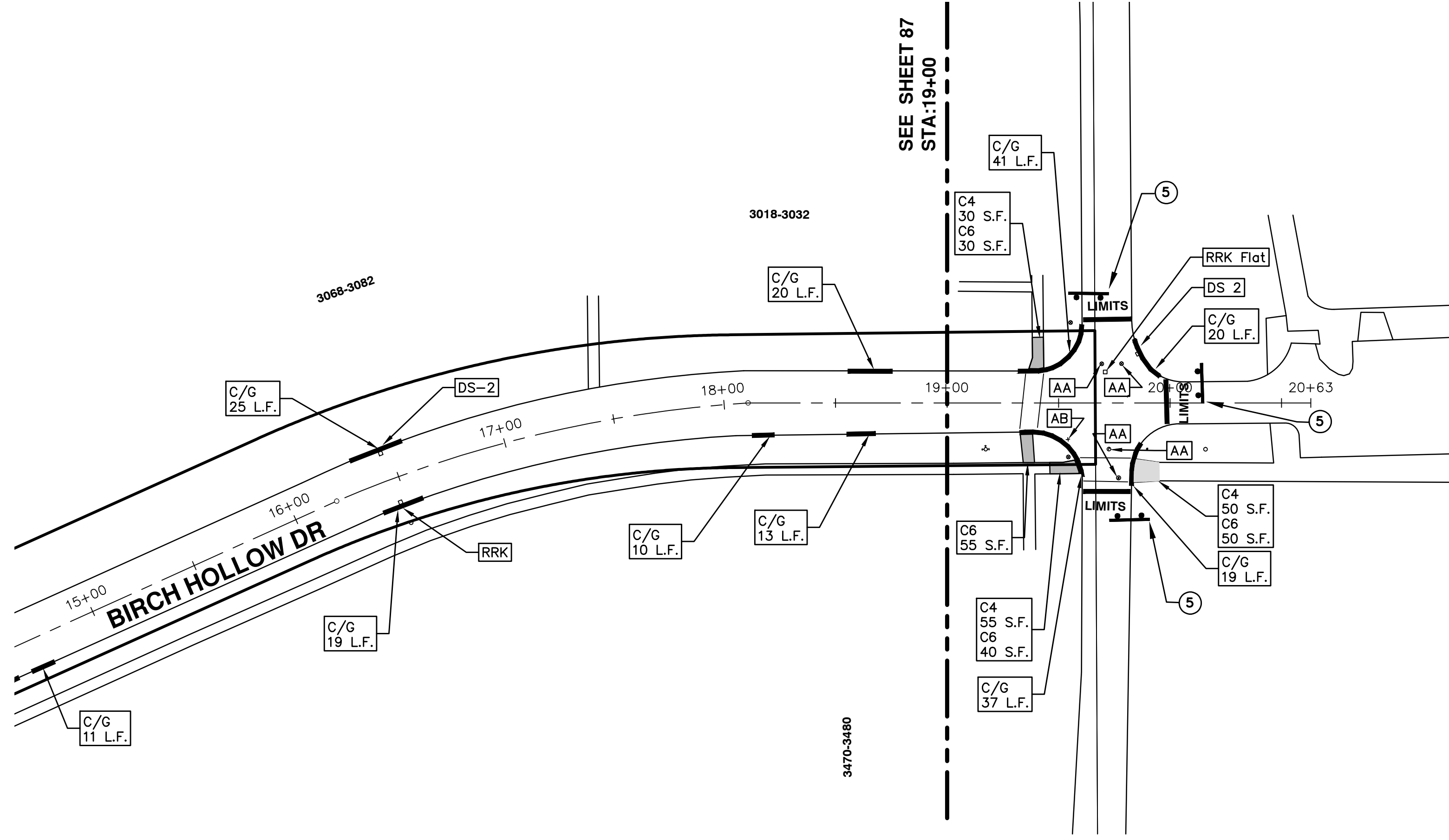
**811**  
 Know what's below.  
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 PUBLIC SERVICES  
 301 EAST HURON STREET  
 ANN ARBOR, MI 48106-8647  
 ANN ARBOR 734.794.4410  
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CITY OF ANN ARBOR MICHIGAN

REV.	DESCRIPTION	DATE	DRAWN	CHECKED
00	BID SET	2-22-2016	SS AH JK	DAD

TRAFFIC CONTROL SIGN		
	SIGN	NUMBER
①		R11-4 60x30
②		R11-2 60x30
③		W20-3 36"x36"
		D3-1
④		W20-1 36"x36"
		D3-1
⑤	W/ TYPE III BARRICADE	







# CITY OF ANN ARBOR PROJECT MANAGEMENT 2016 ANNUAL RESURFACING

## PROJECT LOCATION: N BAYLIS CT AND N BAYLIS DR

ITB No. 4422 FILE No. 2016004



S:\Project Management\Drafting\autocad\2016004\Plan Production\2016004-N Baylis.dwg Dwg Created: 30-Nov-15 - a2 standard bw.stb - Plot Date: 22-Feb-16

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	DESCRIPTION
C/G	REMOVE AND REPLACE CURB AND GUTTER
C/GHE	REMOVE CURB AND GUTTER, REPLACE WITH CONCRETE CURB AND GUTTER H.E.
C4HE	REMOVE EXISTING RAMP OR SIDEWALK. REPLACE WITH 4" SIDEWALK OR TYPE 1 SIDEWALK RAMP,H.E.
CR	REMOVE SIDEWALK, DRIVE OR RAMP.
AA	ADJUST MDOT TYPE A CASTINGS.
AB	ADJUST GATE VALVE BOX OR MONUMENT BOX.
ADST	ADDITIONAL DEPTH STRUCTURE REPAIR.
RRA	REMOVE AND REPLACE MDOT TYPE A CASTING ADJUST TO FINISH GRADE.
CPRHE	CONCRETE PAVEMENT REPAIR, H.E.
DS	CONSTRUCT 2, 3 OR 4' DIAM. DRAINAGE STRUCTURE.
PT	POINT STRUCTURE.
C4	REMOVE EXISTING RAMP OR SIDEWALK, REPLACE WITH 4" SIDEWALK OR RAMP.
C6	REMOVE EXISTING RAMP OR SIDEWALK, REPLACE WITH 6" SIDEWALK OR RAMP.
C8	PLACE 8" SIDEWALK OR RAMP ONLY
C HE	REMOVE EXISTING DRIVE APPROACH, RAMP OR SIDEWALK. REPLACE WITH 6" OR 8" APPROACH, RAMP,OR SIDEWALK, H.E.
CP	PLACE 4" SIDEWALK OR RAMP.
AK	ADJUST MDOT TYPE K CASTING.
TYPE II	MDOT TYPE II BARRICADE.
TYPE III	MDOT TYPE III BARRICADE.
RRK	REMOVE AND REPLACE MDOT TYPE K CASTING. ADJUST TO FINISH GRADE.
RS	RECONSTRUCT STRUCTURE.
RCP	REMOVE CONC. PAVEMENT - ANY THICKNESS
RCW	RAISED CROSSWALK

LEGEND	
SYMBOL	DESCRIPTION
⊙	EXISTING SANITARY SEWER MANHOLE
⊙	EXISTING STORM SEWER MANHOLE
⊗	EXISTING WATER MAIN VALVE IN WELL
+	WATER MAIN GATE VALVE IN BOX
⊕	FIRE HYDRANT
⊙	MICHCON GAS CO. VALVE BOX/WELL
⊙	AMERITECH TELEPHONE VAULT
⊙	ELECTRIC MANHOLE
⊕	SOIL BORING
□	EXISTING STORM SEWER INLET
⊠	MONUMENT BOX
▨	REMOVE AND REPLACE CONC. SIDEWALK
▨	PLACE CONCRETE SIDEWALK
—	REMOVE & REPLACE CONC. CURB & GUTTER
- - -	CONSTRUCTION LIMITS
- · - · -	6" WRAPPED UNDERDRAIN
▨	REMOVE CONCRETE SIDEWALK
▨	SUBGRADE UNDERCUT

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

### NOTES:

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

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



**PROJECT MANAGEMENT SERVICES UNIT**  
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

PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR

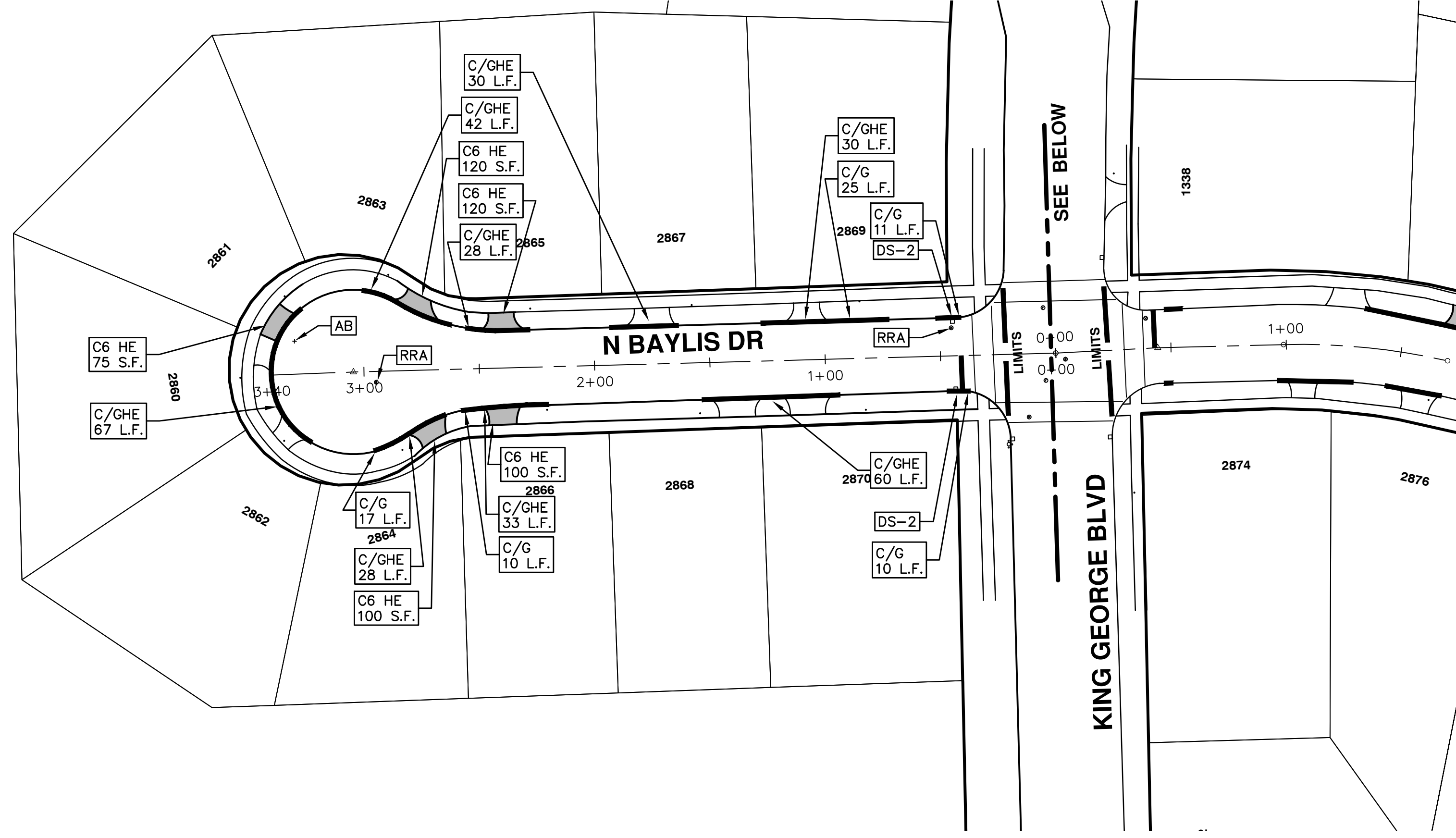
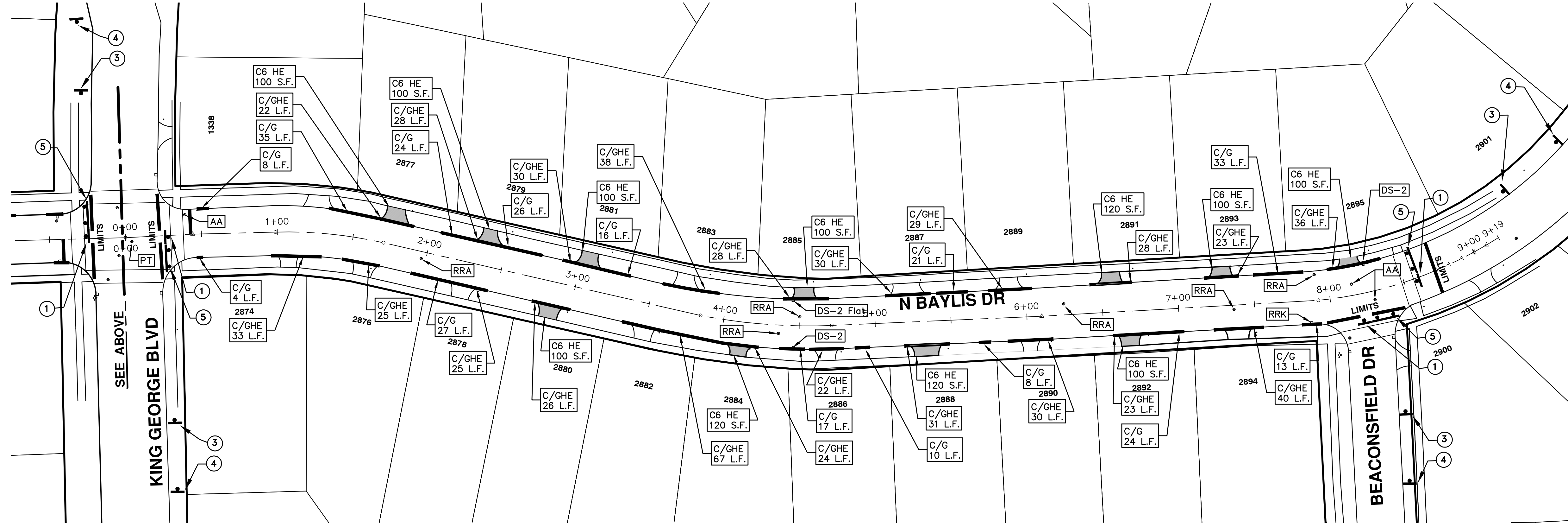
2016 ANNUAL RESURFACING  
N BAYLIS CT AND N BAYLIS DR

PROJECT DESCRIPTION

DRAWING No.  
2016004-89

SHEET No.  
89 OF 97

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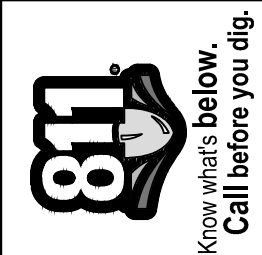


TRAFFIC CONTROL SIGN	
SIGN	NUMBER
① ROAD CLOSED TO THRU TRAFFIC	R11-4 60x30
③ ROAD CLOSED AHEAD	W20-3 36"x36"
N.BAYLIS	
D3-1	
④ ROAD WORK AHEAD	W20-1 36"x36"
N.BAYLIS	
D3-1	
⑤	W/ TYPE III BARRICADE



CITY OF ANN ARBOR  
 PUBLIC SERVICES  
 301 EAST HURON STREET  
 ANN ARBOR, MI 48106-6647  
 www.a2gov.org

REV.	DESCRIPTION	DATE	DRAWN	CHECKED
00	BID SET	2-22-2016	SS AH JK	DAD





# CITY OF ANN ARBOR PROJECT MANAGEMENT 2016 ANNUAL RESURFACING PROJECT LOCATION: PEBBLE CREEK RD

ITB No. 4422 FILE No. 2016004



S:\Project Management\Drafting\autocad\2016004\Plan Production\2016004-PEBBLE CREEK RD.dwg Dwg Created: 30-Nov-15 - a2 standard bw.stb - Plot Date: 22-Feb-16

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	DESCRIPTION
C/G	REMOVE AND REPLACE CURB AND GUTTER
C/GHE	REMOVE CURB AND GUTTER, REPLACE WITH CONCRETE CURB AND GUTTER H.E.
C4HE	REMOVE EXISTING RAMP OR SIDEWALK. REPLACE WITH 4" SIDEWALK OR TYPE 1 SIDEWALK RAMP,H.E.
CR	REMOVE SIDEWALK, DRIVE OR RAMP.
AA	ADJUST MDOT TYPE A CASTINGS.
AB	ADJUST GATE VALVE BOX OR MONUMENT BOX.
ADST	ADDITIONAL DEPTH STRUCTURE REPAIR.
RRA	REMOVE AND REPLACE MDOT TYPE A CASTING ADJUST TO FINISH GRADE.
CPRHE	CONCRETE PAVEMENT REPAIR, H.E.
DS	CONSTRUCT 2, 3 OR 4' DIAM. DRAINAGE STRUCTURE.
PT	POINT STRUCTURE.
C4	REMOVE EXISTING RAMP OR SIDEWALK, REPLACE WITH 4" SIDEWALK OR RAMP.
C6	REMOVE EXISTING RAMP OR SIDEWALK, REPLACE WITH 6" SIDEWALK OR RAMP.
C8	PLACE 8" SIDEWALK OR RAMP ONLY
C HE	REMOVE EXISTING DRIVE APPROACH, RAMP OR SIDEWALK. REPLACE WITH 6" OR 8" APPROACH, RAMP,OR SIDEWALK, H.E.
CP	PLACE 4" SIDEWALK OR RAMP.
AK	ADJUST MDOT TYPE K CASTING.
TYPE II	MDOT TYPE II BARRICADE.
TYPE III	MDOT TYPE III BARRICADE.
RRK	REMOVE AND REPLACE MDOT TYPE K CASTING. ADJUST TO FINISH GRADE.
RS	RECONSTRUCT STRUCTURE.
RCP	REMOVE CONC. PAVEMENT - ANY THICKNESS
RCW	RAISED CROSSWALK

LEGEND	
SYMBOL	DESCRIPTION
⊙	EXISTING SANITARY SEWER MANHOLE
⊚	EXISTING STORM SEWER MANHOLE
⊗	EXISTING WATER MAIN VALVE IN WELL
+	WATER MAIN GATE VALVE IN BOX
⊕	FIRE HYDRANT
⊙	MICHCON GAS CO. VALVE BOX/WELL
⊙	AMERITECH TELEPHONE VAULT
⊙	ELECTRIC MANHOLE
⊕	SOIL BORING
□	EXISTING STORM SEWER INLET
⊠	MONUMENT BOX
▨	REMOVE AND REPLACE CONC. SIDEWALK
▨	PLACE CONCRETE SIDEWALK
— — —	REMOVE & REPLACE CONC. CURB & GUTTER
— — —	CONSTRUCTION LIMITS
— · — · —	6" WRAPPED UNDERDRAIN
▨	REMOVE CONCRETE SIDEWALK
▨	SUBGRADE UNDERCUT

### 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 3.5 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 1.5 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 BE ROUTINELY NOTIFIED. THIS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF NOTIFYING UTILITY OWNERS WHO MAY NOT BE A PART OF THE "MISS DIG" ALERT SYSTEM.

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

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



**PROJECT MANAGEMENT SERVICES UNIT**  
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301 EAST HURON STREET, P.O. BOX 8647  
ANN ARBOR, MICHIGAN 48107-8647  
734-794-6410 www.a2gov.org

PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR

2016 ANNUAL RESURFACING

PEBBLE CREEK RD

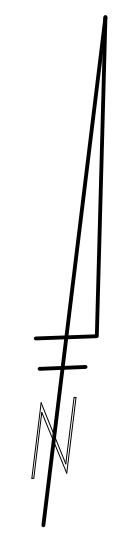
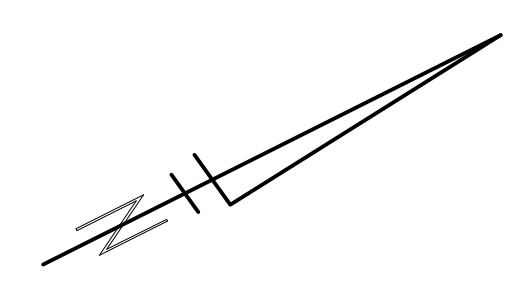
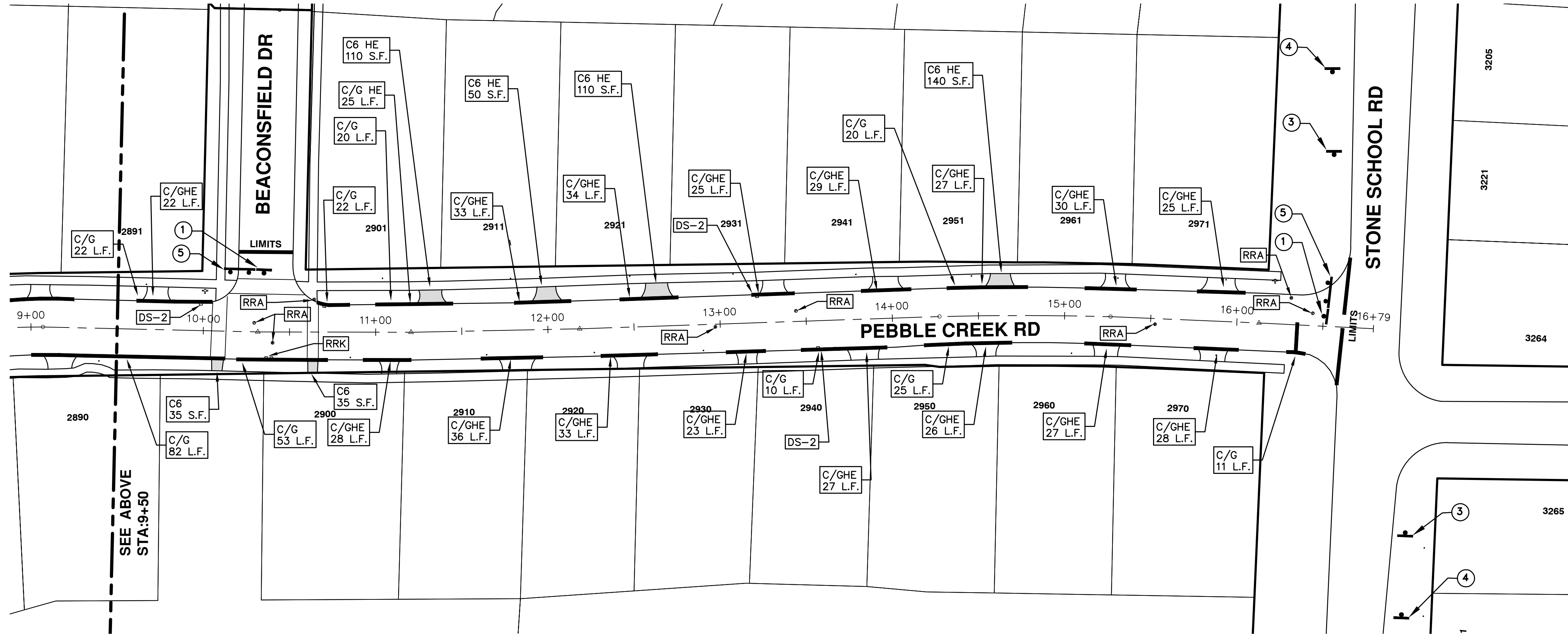
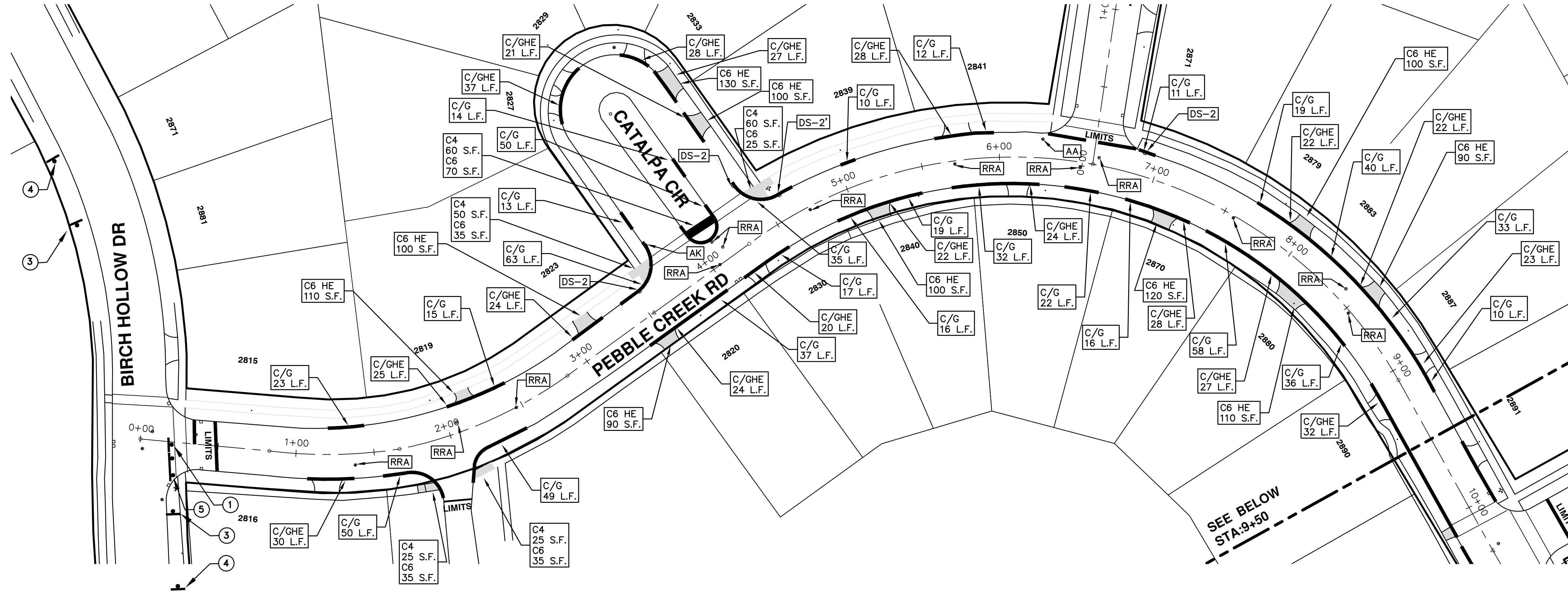
PROJECT DESCRIPTION

DRAWING No.

2016004-91

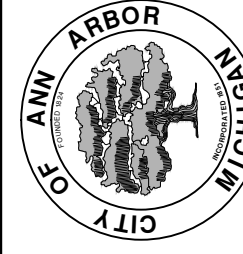
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REV.	DATE	DESCRIPTION	DRAWN	CHECKED
00	2-22-2016		SS AH JK	DAD

CITY OF ANN ARBOR  
PUBLIC SERVICES  
301 EAST HURON STREET  
ANN ARBOR MI 48106-0647  
www.a2gov.org



**PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR**  
**2016 ANNUAL RESURFACING**  
PEBBLE CREEK RD  
RESURFACING

SCALE PLAN: 1" = 40'  
DRAWING No. 2016004-92



# CITY OF ANN ARBOR PROJECT MANAGEMENT 2016 ANNUAL RESURFACING

## PROJECT LOCATION: SUSSEX CT WEXFORD CT BRENTWOOD CT QUAIL HOLLOW CT

ITB No. 4422 FILE No. 2016004

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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
4	W20-1	"ROAD WORK AHEAD"
4	W20-3	"ROAD CLOSED AHEAD"
8	D3-1	CONVENTIONAL GUIDE
4	TYPE III	TYPE III LIGHTED BARRICADE
0	R11-4	Road Closed to Thru Traffic
52	TYPE II	TYPE II BARRICADE DRUM

CONSTRUCTION KEY	
KEY	DESCRIPTION
C/G	REMOVE AND REPLACE CURB AND GUTTER
C/GHE	REMOVE CURB AND GUTTER, REPLACE WITH CONCRETE CURB AND GUTTER H.E.
C4HE	REMOVE EXISTING RAMP OR SIDEWALK. REPLACE WITH 4" SIDEWALK OR TYPE 1 SIDEWALK RAMP,H.E.
CR	REMOVE SIDEWALK, DRIVE OR RAMP.
AA	ADJUST MDOT TYPE A CASTINGS.
AB	ADJUST GATE VALVE BOX OR MONUMENT BOX.
ADST	ADDITIONAL DEPTH STRUCTURE REPAIR.
RRA	REMOVE AND REPLACE MDOT TYPE A CASTING ADJUST TO FINISH GRADE.
CPRHE	CONCRETE PAVEMENT REPAIR, H.E.
DS	CONSTRUCT 2, 3 OR 4' DIAM. DRAINAGE STRUCTURE.
PT	POINT STRUCTURE.
C4	REMOVE EXISTING RAMP OR SIDEWALK, REPLACE WITH 4" SIDEWALK OR RAMP.
C6	REMOVE EXISTING RAMP OR SIDEWALK, REPLACE WITH 6" SIDEWALK OR RAMP
C8	PLACE 8" SIDEWALK OR RAMP ONLY
C HE	REMOVE EXISTING DRIVE APPROACH, RAMP OR SIDEWALK. REPLACE WITH 6" OR 8" APPROACH, RAMP,OR SIDEWALK, H.E.
CP	PLACE 4" SIDEWALK OR RAMP.
AK	ADJUST MDOT TYPE K CASTING.
TYPE II	MDOT TYPE II BARRICADE.
TYPE III	MDOT TYPE III BARRICADE.
RRK	REMOVE AND REPLACE MDOT TYPE K CASTING. ADJUST TO FINISH GRADE.
RS	RECONSTRUCT STRUCTURE.
RCP	REMOVE CONC. PAVEMENT - ANY THICKNESS
RCW	RAISED CROSSWALK

LEGEND	
SYMBOL	DESCRIPTION
⊙	EXISTING SANITARY SEWER MANHOLE
⊗	EXISTING STORM SEWER MANHOLE
⊗	EXISTING WATER MAIN VALVE IN WELL
+	WATER MAIN GATE VALVE IN BOX
⊕	FIRE HYDRANT
⊙	MICHCON GAS CO. VALVE BOX/WELL
⊙	AMERITECH TELEPHONE VAULT
⊙	ELECTRIC MANHOLE
⊕	SOIL BORING
□	EXISTING STORM SEWER INLET
⊠	MONUMENT BOX
▨	REMOVE AND REPLACE CONC. SIDEWALK
▨	PLACE CONCRETE SIDEWALK
—	REMOVE & REPLACE CONC. CURB & GUTTER
---	CONSTRUCTION LIMITS
- · -	6" WRAPPED UNDERDRAIN
▨	REMOVE CONCRETE SIDEWALK
▨	SUBGRADE UNDERCUT

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



**PROJECT MANAGEMENT SERVICES UNIT**  
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



PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR  
PROJECT DESCRIPTION  
2016 ANNUAL RESURFACING  
SUSSEX CT WEXFORD CT BRENTWOOD CT QUAIL HOLLOW CT  
DRAWING No.  
2016004-93





# CITY OF ANN ARBOR PROJECT MANAGEMENT 2016 ANNUAL RESURFACING

## PROJECT LOCATION: BEACONSFIELD DR TICKNOR CT PAGE AVE

ITB No. 4422 FILE No. 2016004



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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
8	W20-1	"ROAD WORK AHEAD"
8	W20-3	"ROAD CLOSED AHEAD"
16	D3-1	CONVENTIONAL GUIDE
4	TYPE III	TYPE III LIGHTED BARRICADE
2	R11-4	Road Closed to Thru Traffic
65	TYPE II	TYPE II BARRICADE DRUM

CONSTRUCTION KEY	
KEY	DESCRIPTION
C/G	REMOVE AND REPLACE CURB AND GUTTER
C/GHE	REMOVE CURB AND GUTTER, REPLACE WITH CONCRETE CURB AND GUTTER H.E.
C4HE	REMOVE EXISTING RAMP OR SIDEWALK. REPLACE WITH 4" SIDEWALK OR TYPE 1 SIDEWALK RAMP,H.E.
CR	REMOVE SIDEWALK, DRIVE OR RAMP.
AA	ADJUST MDOT TYPE A CASTINGS.
AB	ADJUST GATE VALVE BOX OR MONUMENT BOX.
ADST	ADDITIONAL DEPTH STRUCTURE REPAIR.
RRA	REMOVE AND REPLACE MDOT TYPE A CASTING ADJUST TO FINISH GRADE.
CPRHE	CONCRETE PAVEMENT REPAIR, H.E.
DS	CONSTRUCT 2, 3 OR 4' DIAM. DRAINAGE STRUCTURE.
PT	POINT STRUCTURE.
C4	REMOVE EXISTING RAMP OR SIDEWALK, REPLACE WITH 4" SIDEWALK OR RAMP.
C6	REMOVE EXISTING RAMP OR SIDEWALK, REPLACE WITH 6" SIDEWALK OR RAMP
C8	PLACE 8" SIDEWALK OR RAMP ONLY
C HE	REMOVE EXISTING DRIVE APPROACH, RAMP OR SIDEWALK. REPLACE WITH 6" OR 8" APPROACH, RAMP,OR SIDEWALK, H.E.
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AK	ADJUST MDOT TYPE K CASTING.
TYPE II	MDOT TYPE II BARRICADE.
TYPE III	MDOT TYPE III BARRICADE.
RRK	REMOVE AND REPLACE MDOT TYPE K CASTING. ADJUST TO FINISH GRADE.
RS	RECONSTRUCT STRUCTURE.
RCP	REMOVE CONC. PAVEMENT - ANY THICKNESS
RCW	RAISED CROSSWALK

LEGEND	
SYMBOL	DESCRIPTION
⊕	EXISTING SANITARY SEWER MANHOLE
⊗	EXISTING STORM SEWER MANHOLE
⊙	EXISTING WATER MAIN VALVE IN WELL
+	WATER MAIN GATE VALVE IN BOX
⊕*	FIRE HYDRANT
⊕	MICHCON GAS CO. VALVE BOX/WELL
Ⓜ	AMERITECH TELEPHONE VAULT
⊕	ELECTRIC MANHOLE
⊕	SOIL BORING
⊕	EXISTING STORM SEWER INLET
⊕	MONUMENT BOX
▬	REMOVE AND REPLACE CONC. SIDEWALK
▬	PLACE CONCRETE SIDEWALK
▬	REMOVE & REPLACE CONC. CURB & GUTTER
---	CONSTRUCTION LIMITS
---	6" WRAPPED UNDERDRAIN
▨	REMOVE CONCRETE SIDEWALK
▨	SUBGRADE UNDERCUT

### NOTES:

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3. INSTALL ANY PROPOSED STORM SEWER, AND UNDERDRAIN AS SHOWN ON THE PLANS, AND AS DIRECTED BY THE ENGINEER.
4. LOWER ALL STRUCTURE COVERS, INCLUDING VALVE AND MONUMENT BOXES.
5. PERFORM ALL CONCRETE WORK, INCLUDING RESTORATION, IN ACCORDANCE WITH THE PLANS, AND AS DIRECTED BY THE ENGINEER.
6. MILL 3.5 INCHES OF BITUMINOUS MATERIAL FROM EXISTING ROADWAY. THIS MAY INCLUDE GRANULAR ROAD BASE MATERIAL. DEPTH TO BE DETERMINED BY THE ENGINEER. PROOF ROLL WITH FULL TRUCK.
7. PERFORM UNDERCUTS AND/OR BASE REPAIRS AS DIRECTED BY THE ENGINEER.
8. GRADE, SHAPE, AND RE-COMPACT THE EXISTING ROAD BASE AS REQUIRED, AND AS DIRECTED BY THE ENGINEER.
9. PAVE 2 INCHES OF THE BITUMINOUS MIX AS SPECIFIED OR DIRECTED, AS THE LEVELING COURSE, IN ONE LIFT.
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13. COMPLETE ALL MISCELLANEOUS CONSTRUCTION INCLUDING ALL CLEAN-UP AND FINAL RESTORATION.
14. REMOVE ALL TRAFFIC CONTROL DEVICES. REMOVE MISS DIG FLAGS.



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PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR

2016 ANNUAL RESURFACING

BEACONSFIELD DR TICKNOR CT PAGE AVE

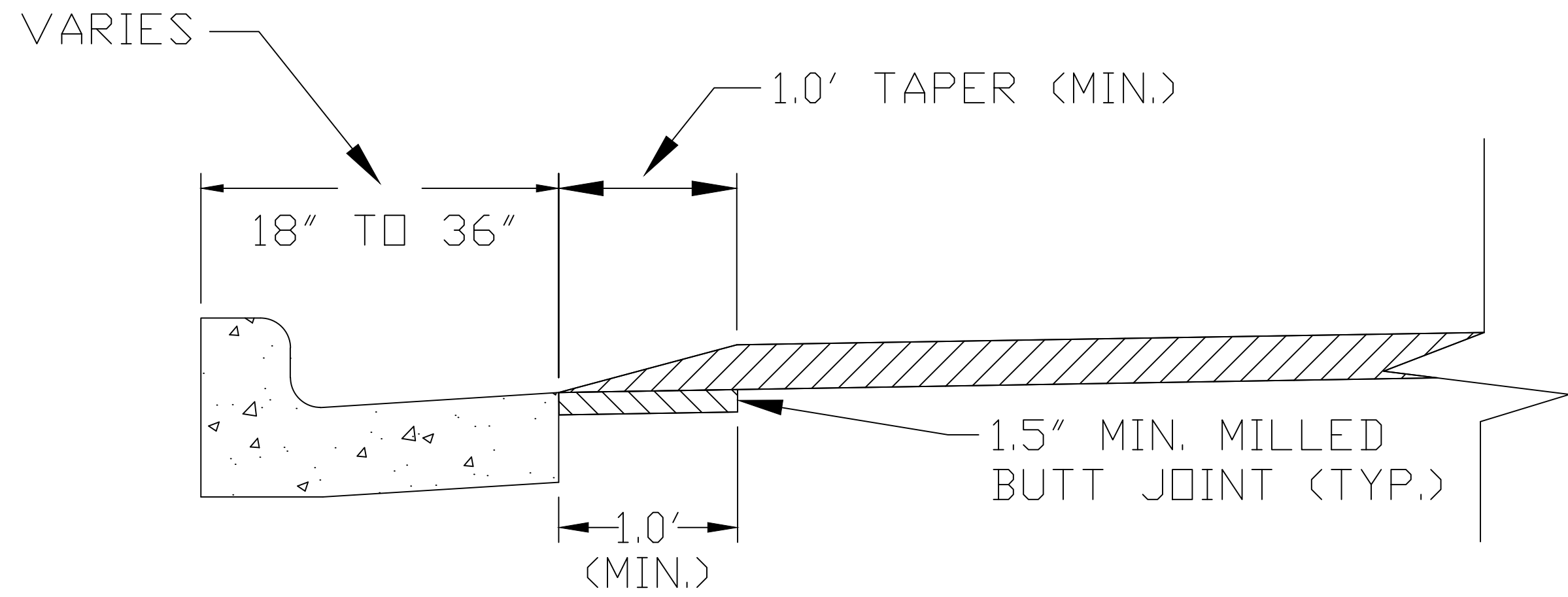
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SHEET No. 95 OF 97



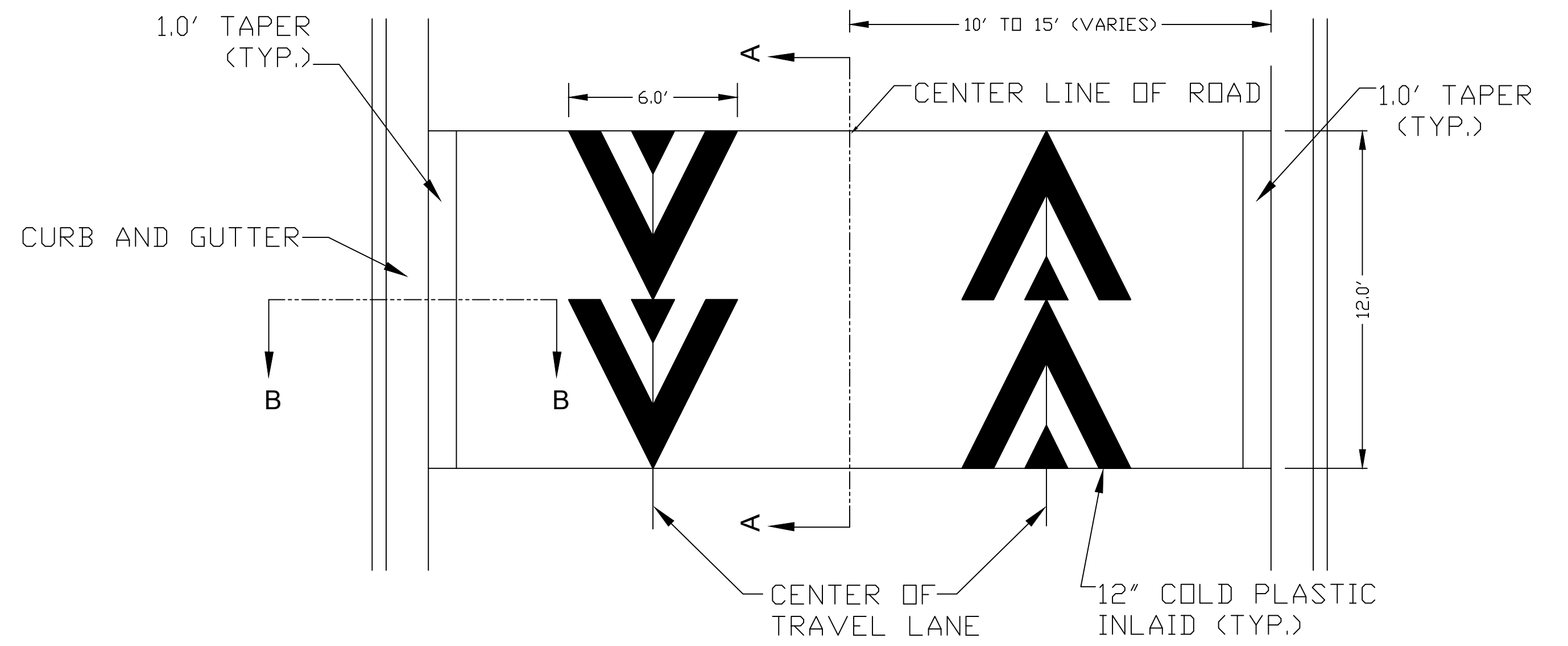


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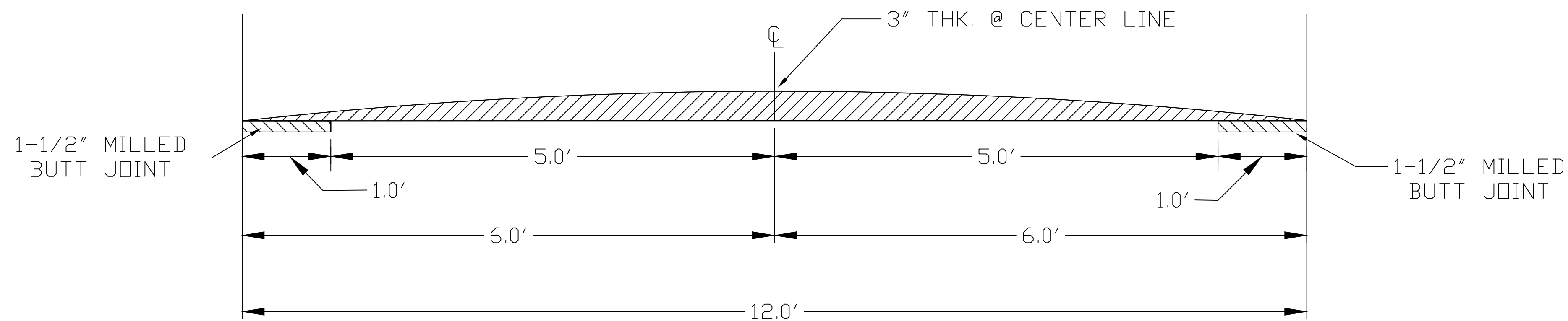


### SPEED HUMP CROSS SECTION

SECTION B-B



### PAVEMENT MARKING DETAIL



### SPEED HUMP CROSS SECTION

SECTION A-A

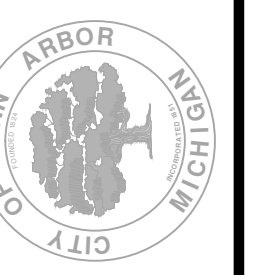
#### GENERAL NOTES

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.	DESCRIPTION	DATE	DRAWN	CHECKED
00	BID SET	2-22-2016	SS AH JK	DAD

CITY OF ANN ARBOR  
PUBLIC SERVICES  
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PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR  
2016 ANNUAL RESURFACING  
TRAFFIC CALMING DETAILS

SCALE: NTS  
DRAWING No.  
2016004-97