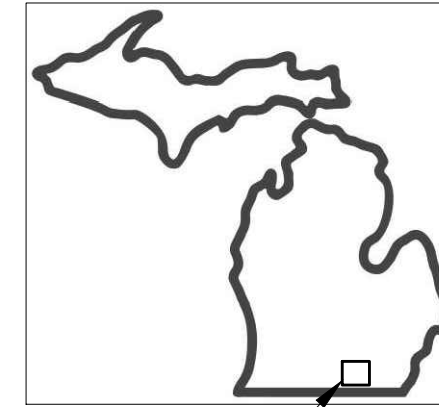




# CITY OF HILLSDALE

## URAN STREET

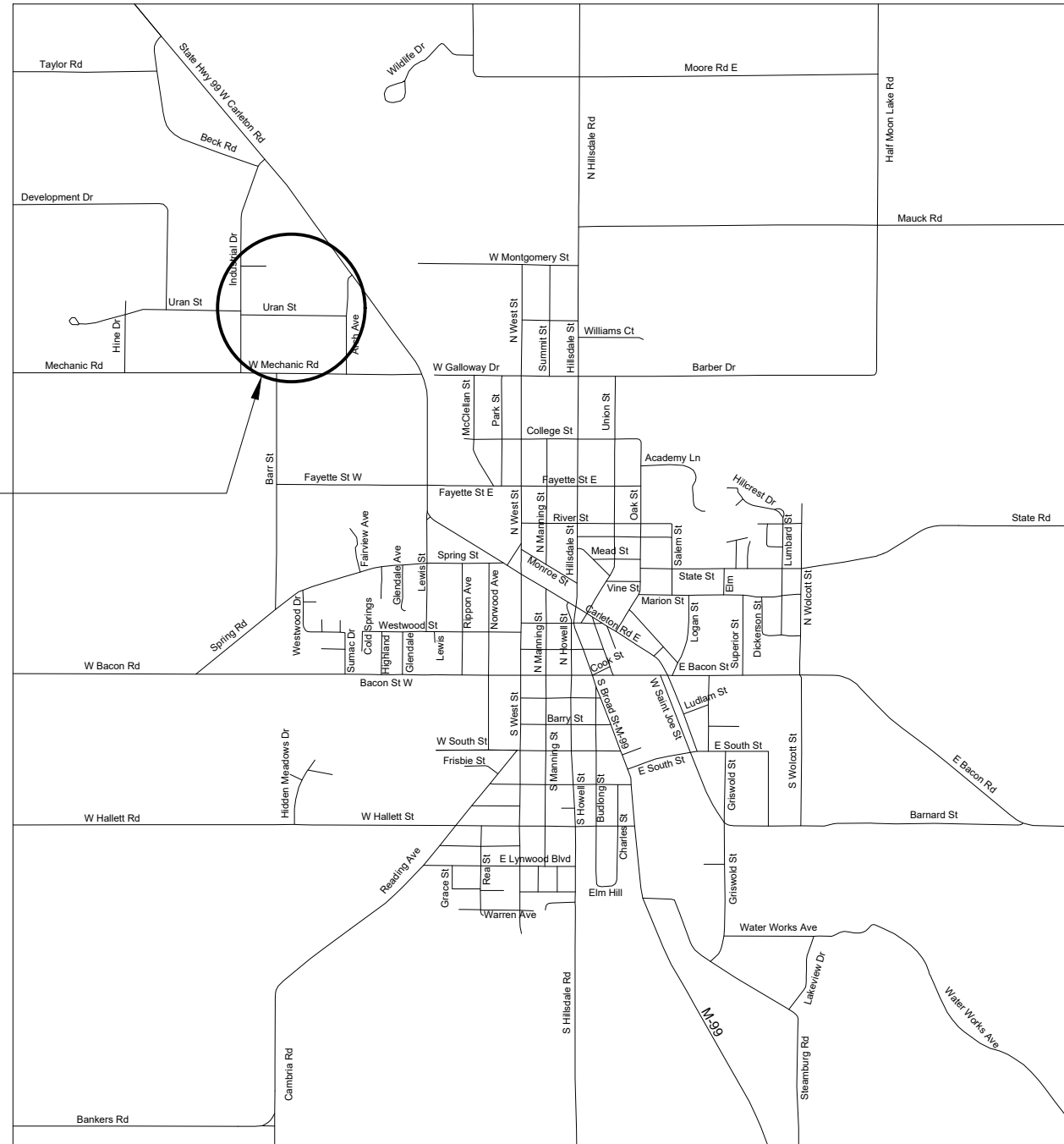
### STREET IMPROVEMENTS



SITE LOCATION

FOR PROTECTION OF UNDERGROUND UTILITIES AND IN CONFORMANCE WITH PUBLIC ACT 53, THE CONTRACTOR SHALL DIAL 1-800-482-7171 OR 811 A MINIMUM OF THREE FULL WORKING DAYS, EXCLUDING SATURDAYS, SUNDAYS, AND HOLIDAYS PRIOR TO THE BEGINNING OF EACH EXCAVATION IN AREAS WHERE PUBLIC UTILITIES HAVE NOT BEEN PREVIOUSLY LOCATED.

PROJECT LOCATION  
URAN ST



The City of  
**HILLSDALE**  
Family • Tradition • Opportunity

97 N BROAD ST.  
HILLSDALE, MI 49242

REVISIONS	DATE

CITY OF HILLSDALE  
HILLSDALE, MI  
URAN STREET  
STREET IMPROVEMENTS

COVER SHEET

SHEET NO.	DESCRIPTION
C5	COVER SHEET
C1	REMOVAL AND UTILITY PLAN
C2	CONSTRUCTION - STA. 0+19 TO 4+75
C3	CONSTRUCTION - STA. 4+75 TO 14+25
C4	CONSTRUCTION - STA. 14+25 TO 18+57
C5	STANDARD CONSTRUCTION DETAILS
C6	TRAFFIC CONTROL

SCALE  
NTS

	NAME	DATE
DESIGNED	KLB	1/20/22
DRAWN	KLB	1/24/22
CHECKED	JH	

DRAWING NO.

**CS**

AREA MAP  
NOT TO SCALE

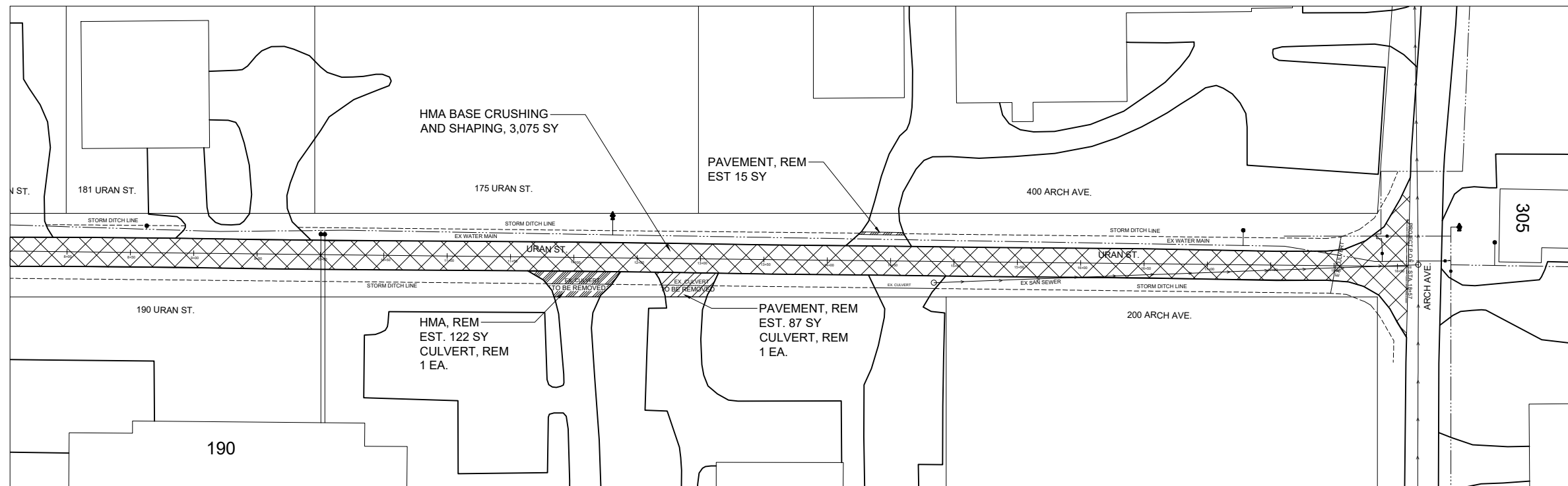
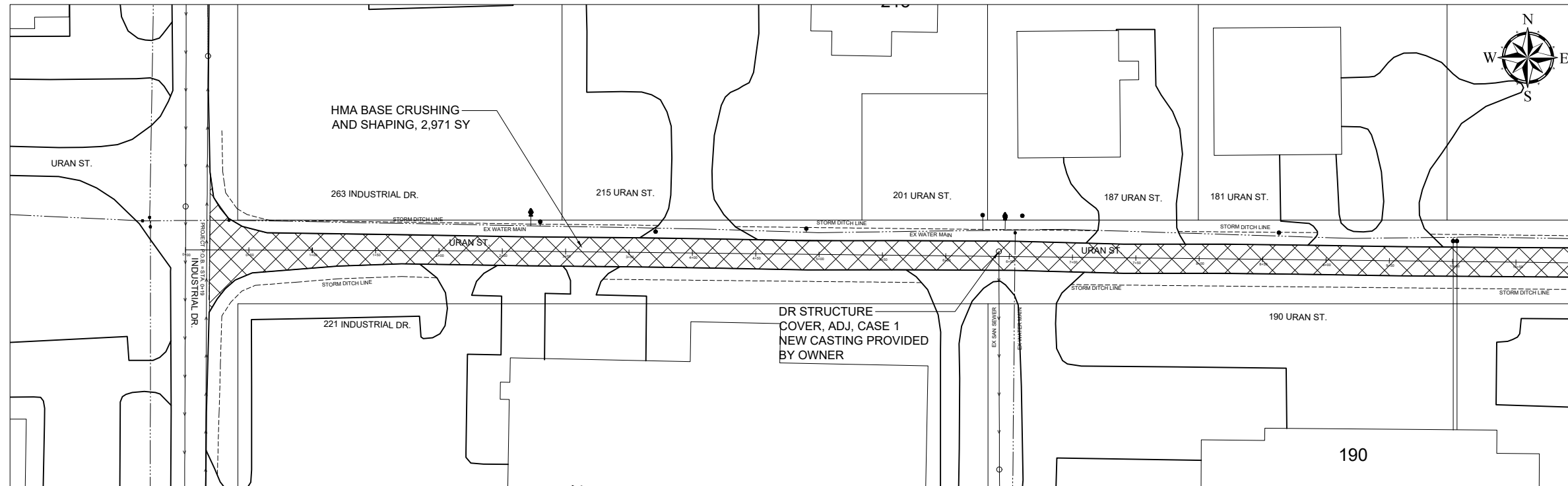
**NOT FOR CONSTRUCTION**

**REFERENCES TO SPECIFICATIONS:**

THE IMPROVEMENTS COVERED BY THESE PLANS SHALL BE DONE IN ACCORDANCE WITH THE PROJECT DRAWINGS, NOTES, AND THE APPLICABLE SECTIONS OF THE 2012 MDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION.

ALL TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH THE MOST CURRENT VERSION OF THE MICHIGAN MANUAL OF TRAFFIC CONTROL DEVICES (MMUTCD)

REVISIONS	DATE



**CITY OF HILLSDALE  
HILLSDALE, MI  
URAN STREET  
STREET IMPROVEMENTS**

**REMOVALS AND UTILITIES**

**EXISTING UTILITY LEGEND**

- WATER MAIN
- WATER SERVICE
- SANITARY SEWER
- - - - STORM DITCH/CULVERTS
- WATER VALVE OR CURB STOP
- ⦿ FIRE HYDRANT

**REMOVAL LEGEND**

- HMA BASE CRUSHING AND SHAPING
- PAVT, REM
- HMA, REM

REMOVAL QUANTITIES		
QUANTITY	UNIT	DESCRIPTION
6050	SY	HMA BASE CRUSHING AND SHAPING
122	SY	HMA SURFACE, REM
105	SY	PAVT, REM
2	EA	CULV, REM, LESS THAN 24"
1	EA	DR STRUCTURE COVER, ADJ, CASE 1

REFER TO C5 FOR TYPICAL CONSTRUCTION DETAILS.

**NOT FOR CONSTRUCTION**

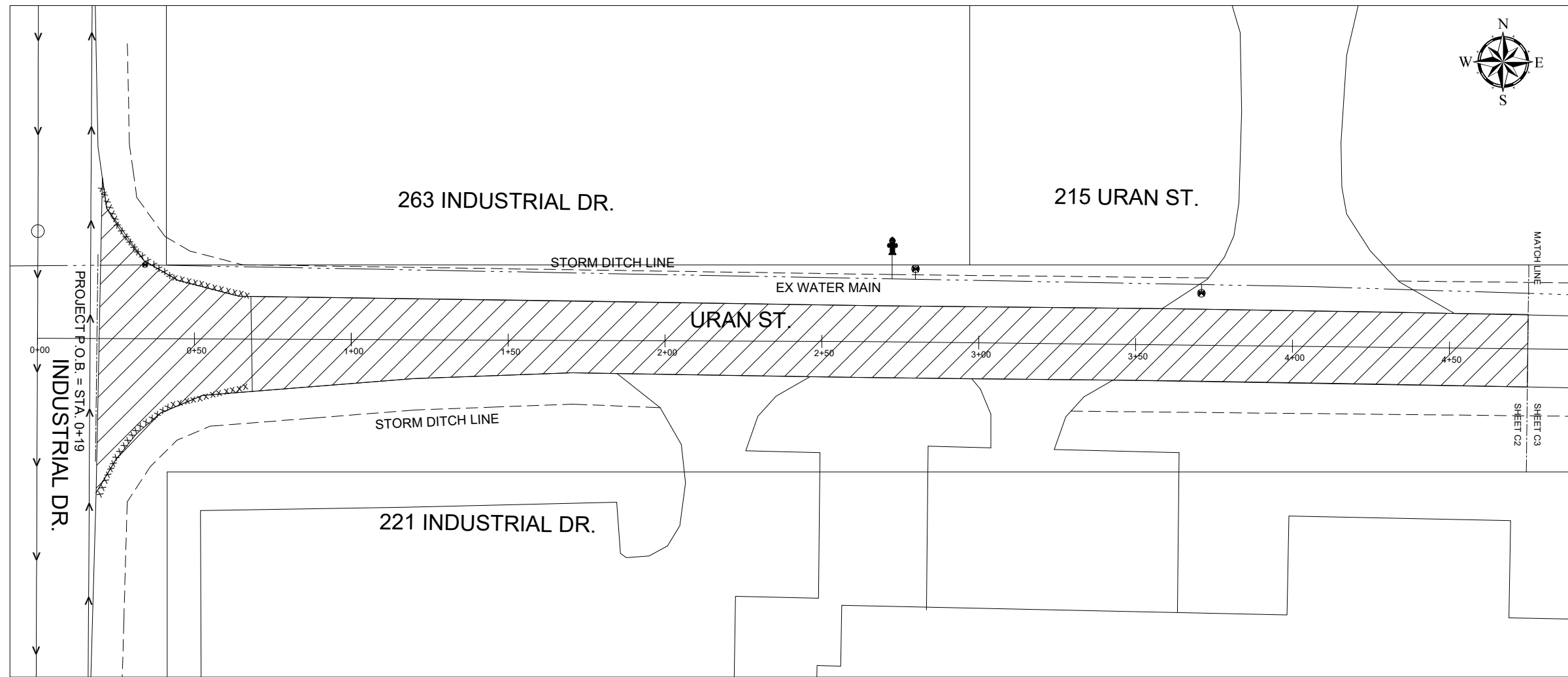
SCALE

1" = 100'

	NAME	DATE
DESIGNED	KLB	1/20/22
DRAWN	KLB	1/24/22
CHECKED	JH	

DRAWING NO.

**C1**



**CONSTRUCTION NOTES (APPLICABLE TO ALL SHEETS, AS NEEDED):**

**EXISTING WATER MAINS AND SEWERS:** THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO PROPERLY IDENTIFIED EXISTING WATER MAINS AND/OR SEWER DURING THE CONSTRUCTION OF THIS PROJECT.

**CONCRETE CURB & GUTTER:** NEW CURB & GUTTER SHALL BE B-2 TYPE CONSTRUCTED IN ACCORDANCE WITH MDOT STANDARD PLAN R-30-G. SECTIONS LONGER THAN 10'-0" WILL REQUIRE 2-#4 EPOXY COATED REINFORCING BARS.

**ADJUSTMENT OF DRAINAGE STRUCTURES:** IT IS THE CONTRACTOR'S RESPONSIBILITY TO PLACE THE LOCATION AND ELEVATION OF ALL CASTINGS PROPERLY ALIGNED WITH THE PROPOSED CURB OR WITHIN THE STREET. ADJUSTMENT OF CASTINGS ON EXISTING STRUCTURES WILL BE PAID AS DR STRUCTURE COVER, ADJ, CASE 1 OR 2. THESE ITEMS INCLUDE ALL BLOCK OR ADJUSTING RINGS AS NECESSARY FOR PROPER ADJUSTMENT. ANY REQUIRED NEW CASTINGS WILL BE PROVIDED BY THE CITY.

**SALVAGE:** THE CITY RESERVES THE RIGHT TO SALVAGE ALL EXISTING MATERIALS (CASTINGS, HYDRANTS, ETC). MATERIALS DESIRED TO BE SALVAGED SHALL BE STOCKPILED WITHIN THE PROJECT LIMITS FOR THE CITY TO PICK UP. ITEMS THE CITY DOES NOT WANT WILL BE BECOME PROPERTY OF THE CONTRACTOR.

**LAWN SPRINKLERS:** OWNERS OF EXISTING LAWN SPRINKLER SYSTEMS AND/OR LANDSCAPING SHALL BE NOTIFIED, IN WRITING WITH A COPY SENT TO THE CITY ENGINEER, BY THE CONTRACTOR TWO WEEKS IN ADVANCE OF ANY WORK THAT WILL EFFECT THOSE SYSTEMS/LANDSCAPING. IF THE OWNER FAILS TO RELOCATE THE ITEMS PRIOR TO THE BEGINNING OF WORK AND THE SYSTEM IS CUT THE CONTRACTOR SHALL CAP THE SYSTEM PIPE AND WITNESS THE LOCATION WITH A STAKE. SALVAGED SPRINKLER HEADS SHALL BE PLACE ON THE OWNERS PROPERTY. ANY LANDSCAPING ITEMS NOT MOVED SHALL BE CAREFULLY SALVAGED AND PLACED ON THE OWNERS PROPERTY.

**NOTICE TO RESIDENTS:** THE CONTRACTOR SHALL NOTIFY RESIDENTS 24 HOURS IN ADVANCE OF DISTRUPTION TO SERVICE SUCH AS DRIVEWAYS CLOSING.

**LANDSCAPE RETORATION:** AREAS DISTURBED BY CONSTRUCTION SHALL BE GRADED SMOOTH AND RESTORED WITH 4" OF NEW TOPSOIL, SEEDDED AND MULCHED PER THE SPECIFICATION REQUIREMENTS FOR TURF ESTABLISHMENT.

**MAINTAINING TRAFFIC:** CONTRACTOR SHALL MAINTAIN ACCESS TO LOCAL RESIDENTS AND EMERGENCY VEHICLES DURING CONSTRUCTION. IT IS UNDERSTOOD THAT THERE MAY BE TIMES WITH SEVERLY LIMITED ACCESS. THE CONTRACTOR SHALL LEAVE THE SITE AT THE END OF THE WORK DAY SUCH THAT RESIDENTS CAN ACCESS THEIR DRIVEWAYS.

**CONSTRUCTION LEGEND**

- HMA, LVSP
- NEW CURB & GUTTER, B-2

PROJECT QUANTITIES -THIS SHEET		
QUANTITY	UNIT	DESCRIPTION
120	LF	CURB & GUTTER, CONC, B-2
470	TON	HMA, LVSP
13	TON	HMA SHOULDER, LVSP
58	SY	SHOULDER, CL 1, 6 INCH
125	SY	AGGREGATE BASE (22A), CONDITIONING, IF NEEDED
50	CY	SUBGRADE UNDERCUTTING, TYPE II
225	SY	TURF ESTABLISHMENT

**NOT FOR CONSTRUCTION**

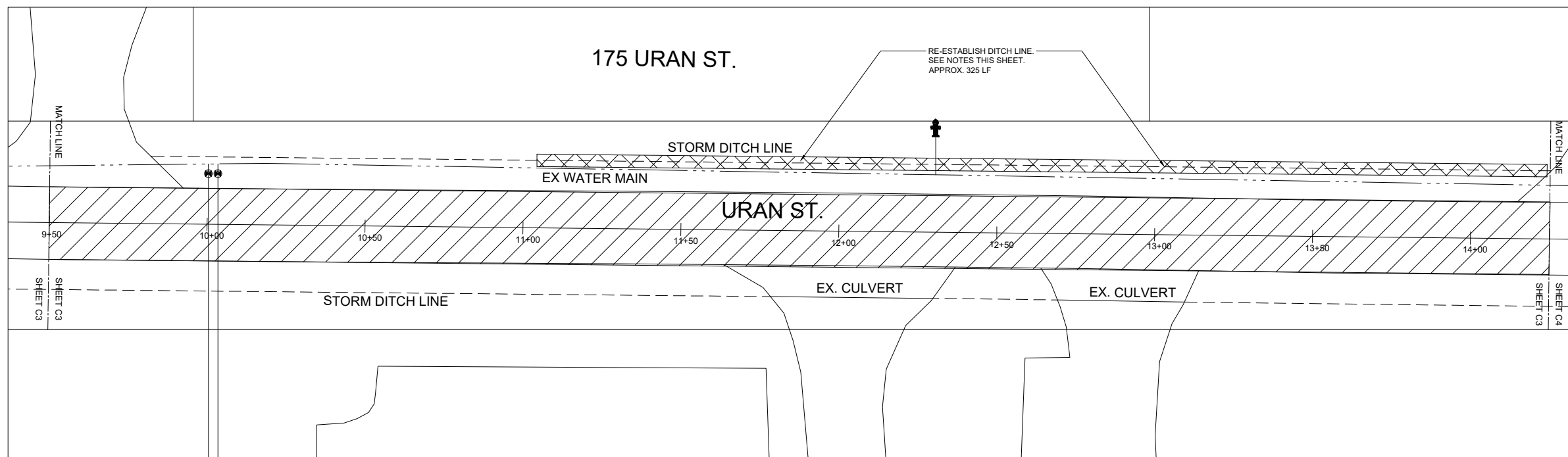
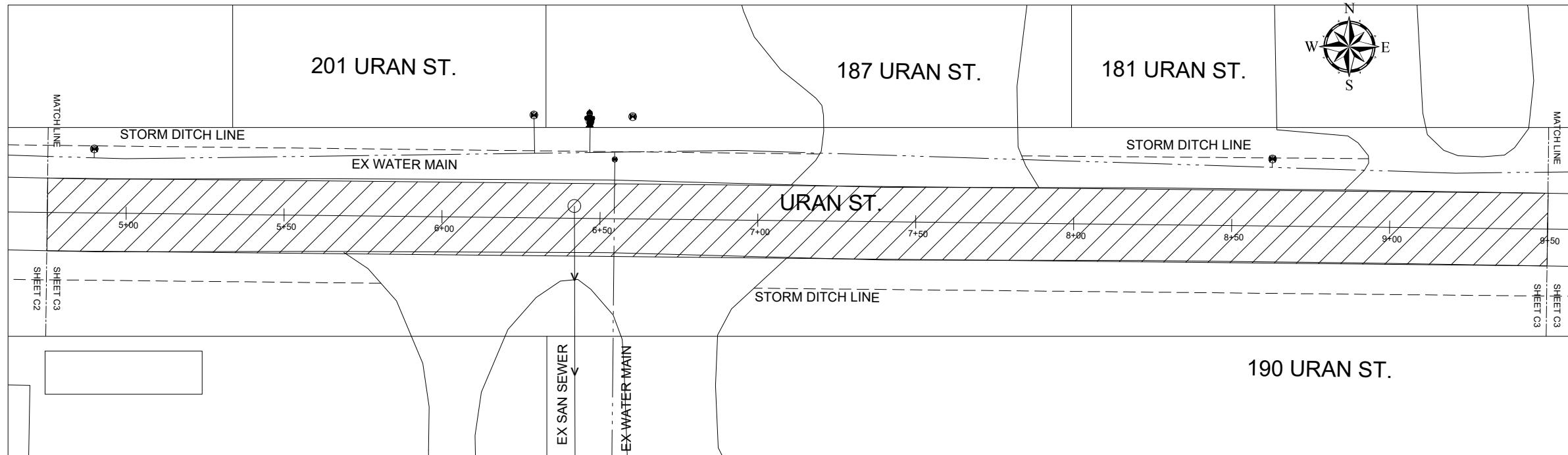
REFER TO C5 FOR TYPICAL PROPOSED CROSS SECTION.

**CITY OF HILLSDALE**  
**HILLSDALE, MI**  
**URAN STREET**  
**STREET IMPROVEMENTS**  
**CONSTRUCTION - STA 0+19 TO 4+75**

SCALE:  
1" = 40'

	NAME	DATE
DESIGNED	KLB	1/20/22
DRAWN	KLB	1/24/22
CHECKED	JH	

DRAWING NO.  
**C2**



**CITY OF HILLSDALE**  
**HILLSDALE, MI**  
**URAN STREET**  
**STREET IMPROVEMENTS**

CONSTRUCTION - STA 4+75 TO 14+25

**NOTES FOR RE-ESTABLISHMENT OF DITCH LINE:**

1. THE NEW RE-ESTABLISHED DITCH SHALL BE A CONSTRUCTED TO FACILITATE REMOVAL OF WATER FROM THE ADJACENT ROADWAY AND MOVEMENT TO THE EAST TOWARD ARCH AVE.
2. THE DITCH SHALL BE ASSUMED TO BE A ROUND BOTTOM DITCH WITH A 1:6 SLOPE.
3. MATERIAL REMOVED TO RE-ESTABLISH THE DITCH SHALL BE USED TO DEVELOP A "BERM" ADJACENT TO THE EXISTING POLE LINE.
4. ELEVATIONS FOR THE DITCH WILL BE FIELD DETERMINED BASED ON ELEVATIONS REQUIRED FOR INSTALLATION OF THE NEW TRENCH DRAIN LOCATED IN THE DRIVE APPROACH AT 400 ARCH AVE.
5. FORE SLOPE AND BACK SLOPES GRADES SHALL BE ESTABLISHED SO AS TO FACILITATE REASONABLE MOWING OF THE DITCH LINE.

NOT FOR CONSTRUCTION

**PROJECT QUANTITIES -THIS SHEET**

QUANTITY	UNIT	DESCRIPTION
780	TON	HMA, LVSP
25	TON	HMA SHOULDER, LVSP
116	SY	SHOULDER, CL 1, 6 INCH
325	LF	DITCH LINE, RE-ESTABLISH
210	SY	AGGREGATE BASE (22A), CONDITIONING, IF NEEDED
100	CY	SUBGRADE UNDERCUTTING, TYPE II
850	SY	TURF ESTABLISHMENT

**CONSTRUCTION LEGEND**

- HMA, LVSP
- DITCH LINE WORK

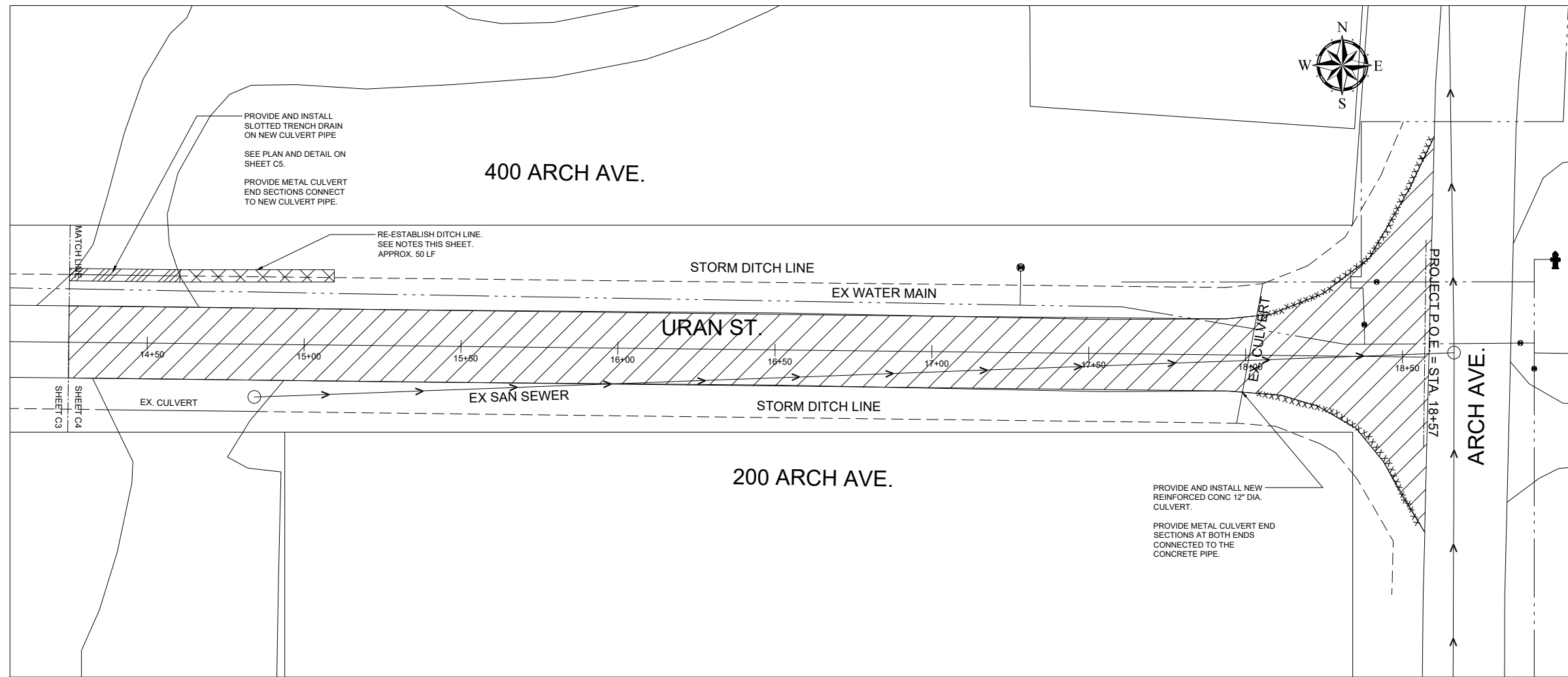
REFER TO C5 FOR TYPICAL PROPOSED CROSS SECTION.

SCALE:  
1" = 40'

	NAME	DATE
DESIGNED	KLB	1/20/22
DRAWN	KLB	1/24/22
CHECKED	JH	

DRAWING NO.




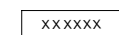
C3



**NOTES FOR RE-ESTABLISHMENT OF DITCH LINE:**

1. THE NEW RE-ESTABLISHED DITCH SHALL BE A CONSTRUCTED TO FACILITATE REMOVAL OF WATER FROM THE ADJACENT ROADWAY AND MOVEMENT TO THE EAST TOWARD ARCH AVE.
2. THE DITCH SHALL BE ASSUMED TO BE A ROUND BOTTOM DITCH WITH A 1:6 SLOPE.
3. MATERIAL REMOVED TO RE-ESTABLISH THE DITCH SHALL BE USED TO DEVELOP A "BERM" ADJACENT TO THE EXISTING POLE LINE.
4. ELEVATIONS FOR THE DITCH WILL BE FIELD DETERMINED BASED ON ELEVATIONS REQUIRED FOR INSTALLATION OF THE NEW TRENCH DRAIN LOCATED IN THE DRIVE APPROACH AT 400 ARCH AVE.
5. FORE SLOPE AND BACK SLOPES GRADES SHALL BE ESTABLISHED SO AS TO FACILITATE REASONABLE MOWING OF THE DITCH LINE.

**CONSTRUCTION LEGEND**

-  HMA, LVSP
-  DITCH LINE WORK
-  SLOTTED TRENCH DRAIN
-  NEW CURB & GUTTER, B-2

PROJECT QUANTITIES - THIS SHEET		
QUANTITY	UNIT	DESCRIPTION
160	LF	CURB & GUTTER, CONC, B-2
395	TON	HMA, LVSP
13	TON	HMA SHOULDER, LVSP
58	SY	SHOULDER, CL 1, 6 INCH
50	LF	DITCH LINE, RE-ESTABLISH
34	LF	TRENCH DRAIN, SLOTTED
38	LF	CULV, PVC OR NDS PIPE, 12"
45	LF	CULV, REINF CONC, 12"
4	EA	CULV END SECT, METAL
105	SY	AGGREGATE BASE (22A), CONDITIONING, IF NEEDED
50	CY	SUBGRADE UNDERCUTTING, TYPE II
285	SY	TURF ESTABLISHMENT

**NOT FOR CONSTRUCTION**

REFER TO C5 FOR TYPICAL PROPOSED CROSS SECTION.

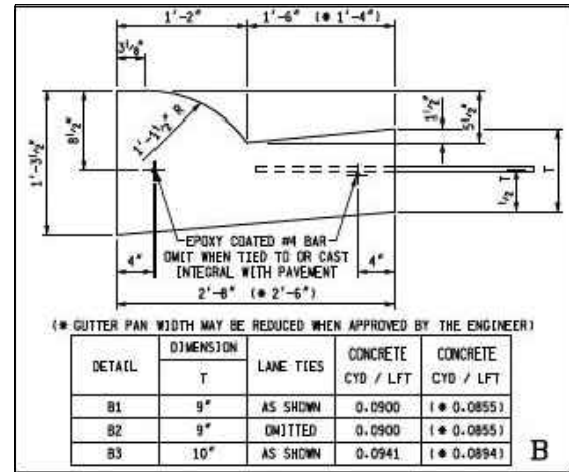
CITY OF HILLSDALE  
HILLSDALE, MI  
URAN STREET  
STREET IMPROVEMENTS

CONSTRUCTION - STA. 14+75 TO 18+57

SCALE: NTS		
	NAME	DATE
DESIGNED	KLB	1/20/22
DRAWN	KLB	1/24/22
CHECKED	JH	

DRAWING NO.

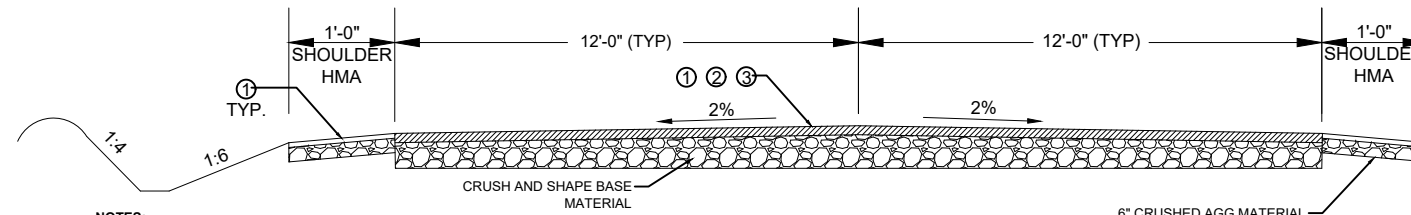
**C4**



TYPICAL B-2 CURB DETAIL  
NOT TO SCALE

HMA APPLICATION TABLE						
COURSE	TYPE	ITEM	EST. YIELD	BINDER GRADE	AWI	REMARKS
①	BASE	LVSP	220 LBS/SYD	PG 58-28	-	
②	LEVELING	LVSP	165 LBS/SYD	PG 58-28	-	
③	SURFACE	LVSP	165 LBS/SYD	PG 58-28	220	

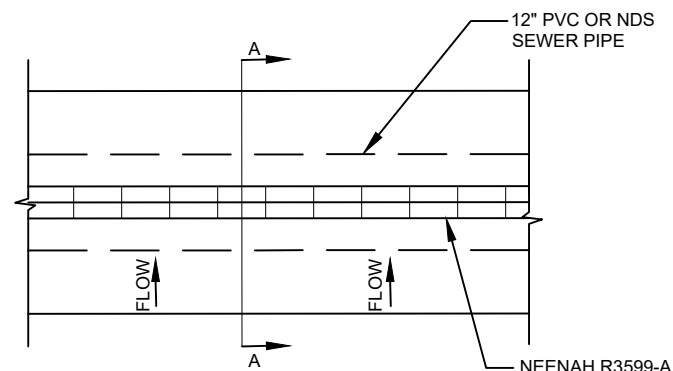
**NOTE:** BOND COAT SHALL BE APPLIED BETWEEN SUCCESSIVE COURSES OF HMA (PAYMENT INCLUDED IN HMA MIX). APPLICATION RATE 0.05 - 0.15 GAL/SYD SS-IH, AS DIRECTED BY ENGINEER.



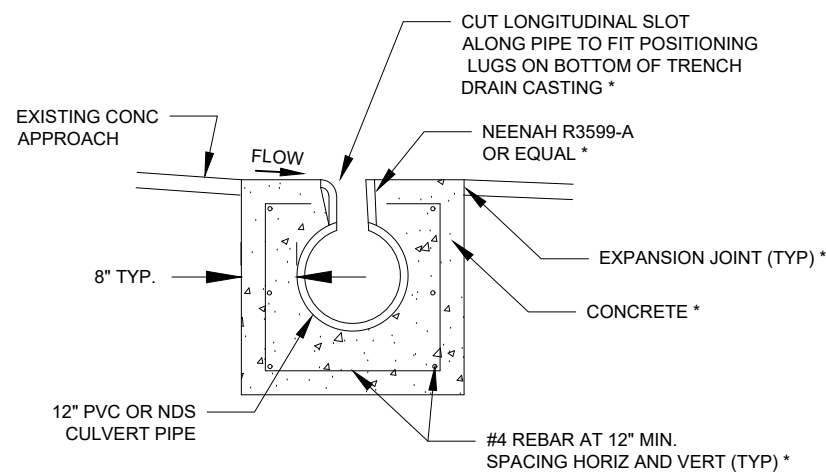
PROPOSED CROSS SECTION  
NOT TO SCALE

**NOTES:**

- 1) DITCH SLOPES AND DEPTHS ARE ESTIMATED. ACTUAL DEPTHS AND WIDTHS WILL BE DETERMINED IN THE FIELD AS NEEDED FOR FLOW AND ADJACENT CULVERT DEPTHS.
- 2) PROVIDE 1'-0" WIDE X 6" GRAVEL SHOULDER ADJACENT TO THE PAVED SHOULDER. TYPICAL



TRENCH DRAIN PLAN  
SCALE: NONE



SECTION A-A  
SCALE: NONE

\* INCLUDED IN PAYMENT FOR TRENCH DRAIN

1. THE CONTRACTOR SHALL ADEQUATLY SECURE THE PIPE AND CASTING SO THAT DURING CONSTRUCTION OF THE TRENCH DRAIN IT MAINTAINS IT PROPOSED HORIZONTAL AND VERTICAL ALIGNMENT.
2. THE CONTRACTOR SHALL COVER THE CASTING DURING CONSTRUCTION TO INSURE DEBRIS DOES NOT ENTER THE PIPE.

**NOT FOR CONSTRUCTION**

**PUBLIC UTILITIES:** THE EXISTING UTILITIES LISTED BELOW AND SHOWN ON THE PLANS REPRESENT THE BEST INFORMATION AVAILABLE. THIS INFORMATION DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY TO VERIFY THEIR ACCURACY OR THE RESPONSIBILITY IN CASE UTILITIES HAVE BEEN REMOVED OR CONSTRUCTED.

**GAS:** MICHIGAN GAS UTILITY  
70 SAUK RIVER DRIVE  
COLDWATER, MI 49036  
P - 517-781-0511  
ATTN: DONALD SEEKMAN  
donald.seekman@michigangasutilities.com

**ELECTRIC:** CITY OF HILLSDALE BPU  
45 MONROE STREET  
HILLSDALE, MI 49242  
P - 517-437-6417  
ATTN: CHRIS McARTHUR  
cmcarthur@hilldalebpu.com

**CABLE TELEVISION:** COMCAST  
16718 US 12  
CEMENT CITY, MI 49233  
P - 734-359-1669  
ATTN: JEFF DOBIES

**TELEPHONE:** AT&T  
1041 HURST ROAD  
JACKSON, MI 49201  
P - 517-750-0660  
ATTN: KAREN TRUDGEN  
karen.m.trudgen@att.com

**WATER/SEWER:** CITY OF HILLSDALE BPU  
45 MONROE STREET  
HILLSDALE, MI 49242  
P - 517-437-6412  
ATTN: JEFF GIER  
jgier@hilldalebpu.com

**PUBLIC WORKS:** CITY OF HILLSDALE  
149 WATER WORKS AVE  
HILLSDALE, MI 49242  
517-437-6491  
ATTN: JAKE HAMMEL  
jhammel@cityofhilldale.org

THE CONTRACTOR SHALL EXPOSE AND VERIFY LOCATION AND DEPTH OF EXISTING UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION. CONFLICTS IN GRADE SHALL BE REPORTS TO THE CITY ENGINEER AND ADJUSTMENTS MADE AT NO ADDITIONAL COST TO THE OWNER.

CITY OF HILLSDALE  
HILLSDALE, MI  
URAN STREET  
STREET IMPROVEMENTS  
CONSTRUCTION DETAILS

SCALE		
NOT TO SCALE		
	NAME	DATE
DESIGNED	KLB	1/20/22
DRAWN	KLB	1/24/22
CHECKED	JH	

DRAWING NO.

**C5**

97 N BROAD ST.  
HILLSDALE, MI 49242

REVISIONS	DATE

CITY OF HILLSDALE  
HILLSDALE, MI  
URAN STREET  
STREET IMPROVEMENTS

TRAFFIC CONTROL

SCALE:  
NTS

	NAME	DATE
DESIGNED	KLB	1/20/22
DRAWN	KLB	1/24/22
CHECKED	JH/JB	1/26/22

DRAWING NO.  
**C6**

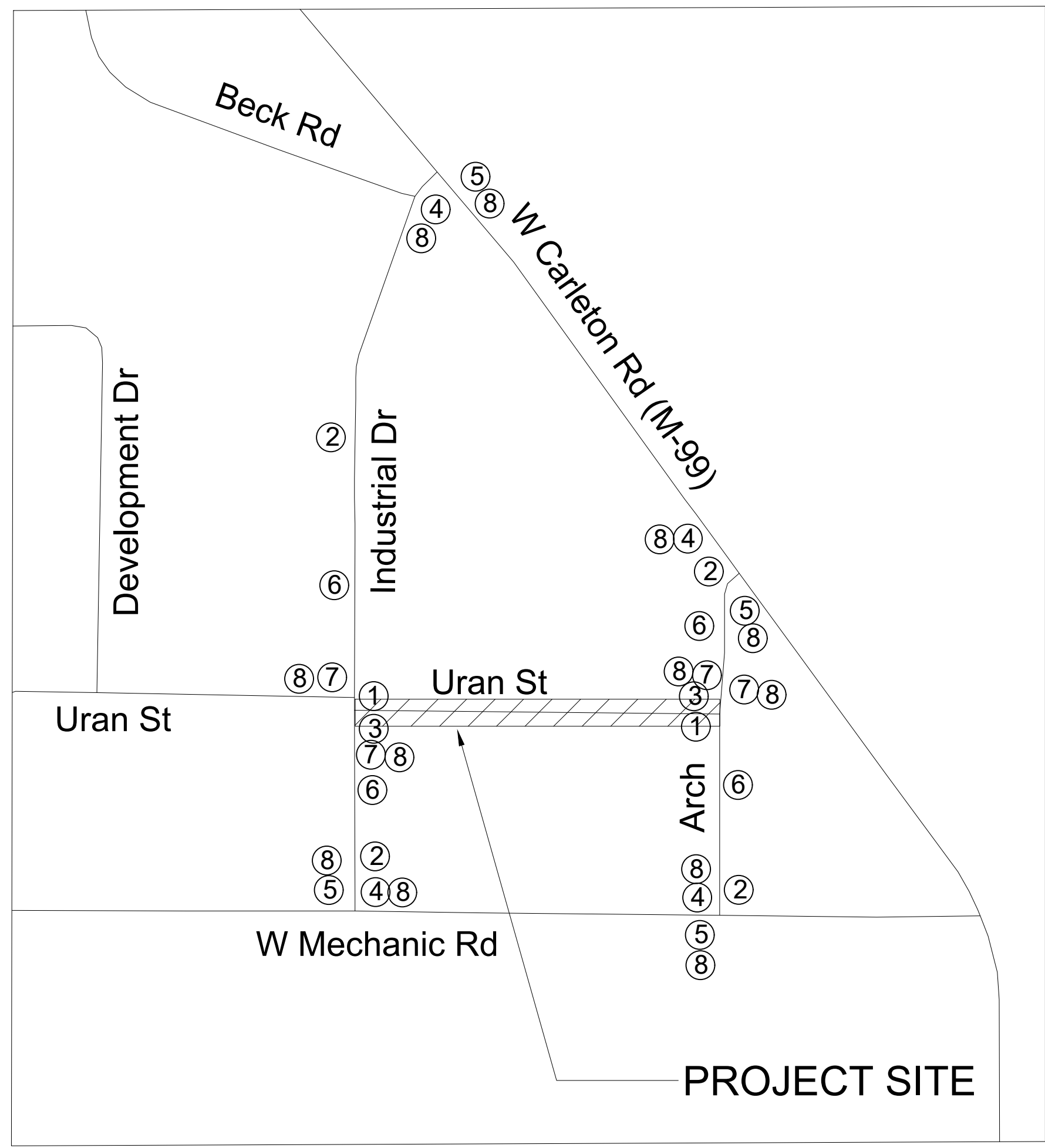
**TRAFFIC CONTROL KEY**

KEY	CODE	SIGN	*QTY
①		TYPE III BARRICADE HIGH INTENSITY	2
②	W20-3	STREET CLOSED AHEAD	4
③	R11-4	STREET CLOSED TO THRU TRAFFIC	2
④	M4-9R	DETOUR ARROW RIGHT	4
⑤	M4-9L	DETOUR ARROW LEFT	4
⑥	W20-2	DETOUR AHEAD	4
⑦	M4-9S	DETOUR STRAIGHT	4
⑧	D3-1	"URAN STREET" - PLAQUE	12

\* QUANTITIES ARE MINIMUM REQUIRED. CONTRACTOR MAY INCREASE AS NEEDED FOR THEIR CONSTRUCTION PLANS. LIGHTED BARRELS AND/OR GRABBER CONES WILL BE NEEDED FOR FLAG CONTROL ZONES AND OVER NIGHT ONE LANE SECTIONS.

**PROJECT NOTES**

- ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH ALL APPLICABLE SECTIONS OF THE MDOT 2012 STANDARD SPECIFICATION FOR CONSTRUCTION.
- ALL TRAFFIC CONTROL SHALL CONFORM TO THE REQUIREMENTS OF THE MOST CURRENT EDITION OF THE MICHIGAN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.



**PROJECT SITE**