

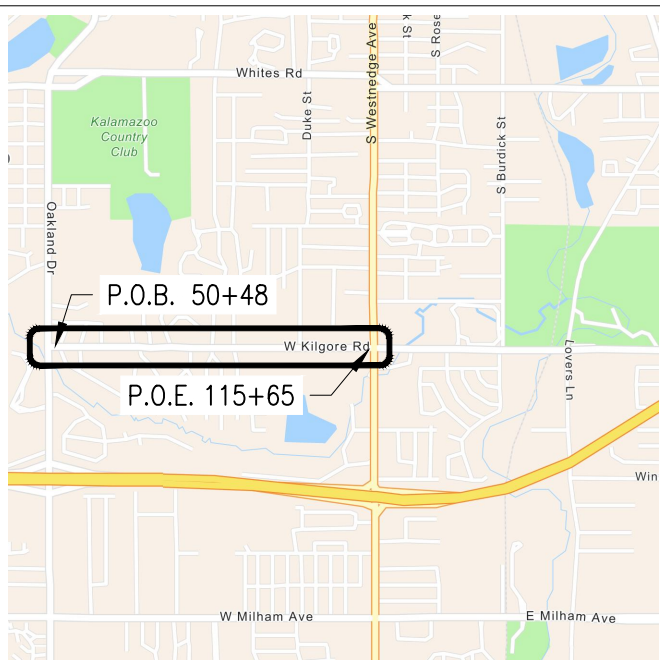
# THE CITY OF KALAMAZOO KILGORE ROAD REPAVING

## MDOT STANDARD PLANS AND DETAILS

R-18-F	COVER Q
R-29-I	DRIVEWAY OPENINGS & APPROACHES AND CONCRETE SIDEWALKS
R-30-G	CONCRETE CURB AND CONCRETE CURB & GUTTER
R-96-E	SOIL EROSION & SEDIMENTATION CONTROL MEASURES
SIGN-120-E	ROADSIDE SIGN LOCATIONS AND SUPPORT SPACING
SIGN-200-E	STEEL POSTS
WZD-125-E	TEMPORARY TRAFFIC CONTROL DEVICES



PROJECT LIMIT: KILGORE RD - OAKLAND DR TO WESTNEDGE AVE



PROJECT LOCATION MAP

## GENERAL PROVISIONS

THE IMPROVEMENTS COVERED BY THIS LOG SHALL BE DONE IN ACCORDANCE WITH THE PROPOSAL AND ACCOMPANYING SPECIFICATIONS FOR THIS PROJECT INCLUDING THE 2020 MICHIGAN DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION AND HAVE BEEN DESIGNED IN ACCORDANCE WITH THE MICHIGAN DEPARTMENT OF TRANSPORTATION LOCAL AGENCY PROGRAMS GUIDELINES FOR GEOMETRICS, DATED MARCH 4, 2017.

TRAFFIC CONTROL SHALL CONFORM TO THE LATEST VERSION OF THE MICHIGAN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.

NOTICE SHALL BE GIVEN TO MISS DIG PRIOR TO UNDERGROUND WORK IF PERFORMED IN ACCORDANCE WITH THIS CONTRACT, PHONE (800) 482-7171 OR 811. UTILITY SERVICE CONNECTIONS ARE NOT SHOWN IN THE LOG AND ARE NOT THE RESPONSIBILITY OF THE CITY.

CONTRACT FOR: ROAD RESURFACING WITH COLD MILLING, HMA, ADA IMPROVEMENTS AND PAVEMENT MARKINGS.

CITY OF KALAMAZOO APPROVAL

\_\_\_\_\_  
GEORGE WARING

\_\_\_\_\_  
Date

PREPARED UNDER THE SUPERVISION OF:



\_\_\_\_\_  
THOMAS LENTNER, P.E.

6201051096  
Registration No.

\_\_\_\_\_  
Date

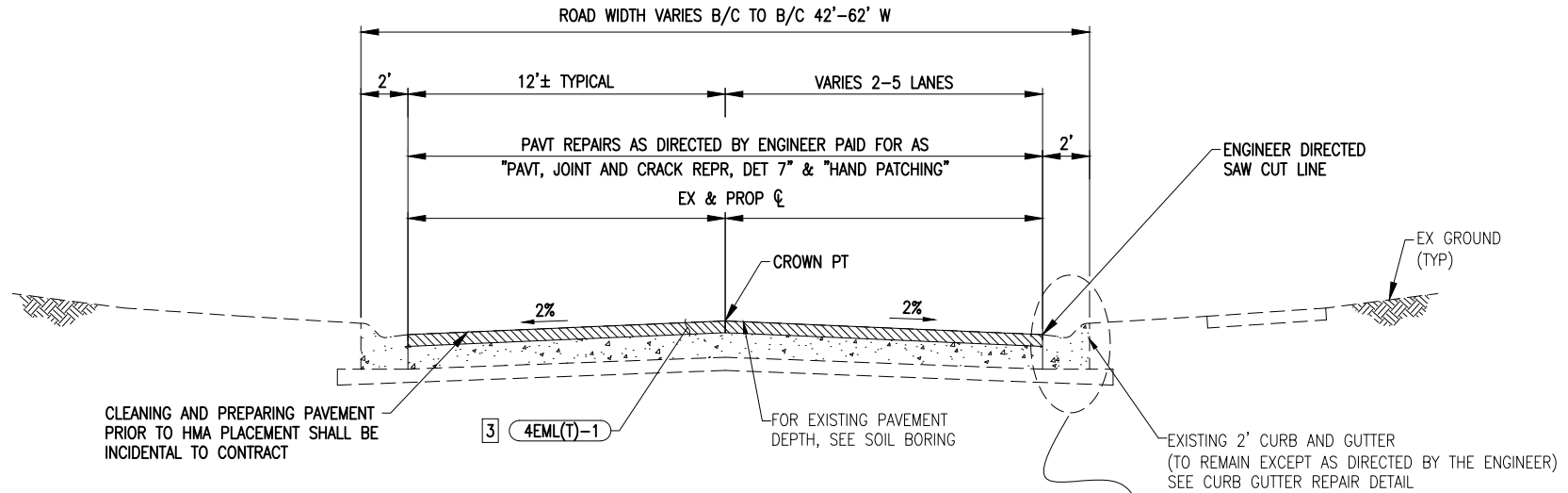
## REVISIONS


PROJECT NO.  
0039-21-0050

SHEET NO.  
1

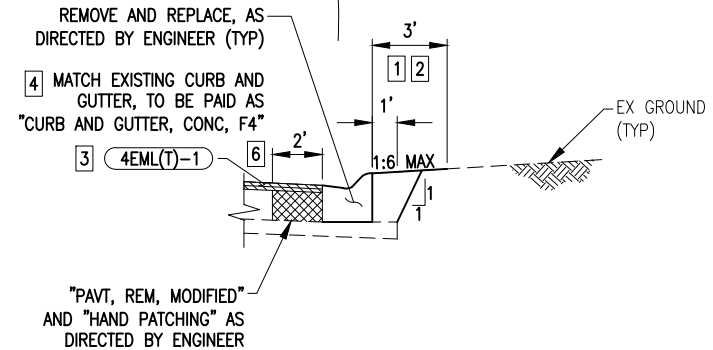


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# KILGORE RD TYPICAL SECTION STA 50+48 TO STA 115+65

- 1 ALL AREAS DISTURBED DURING CONSTRUCTION SHALL BE RESTORED WITH "SURFACE RESTORATION".
- 2 LIMITS OF EARTHWORK. PAYMENT FOR EMBANKMENT AND EXCAVATION WILL BE INCIDENTAL TO PROJECT.
- 3 HMA LAYER THICKNESSES: 4EML(T)-1: 2"
- 4 PROPOSED CURB AND GUTTER TYPE TO MATCH EXISTING.
- 5 MILL DEPTH SHALL BE 2"
- 6 EXISTING CURB TO BE REMOVED, PAID FOR AS "CURB AND GUTTER, REM".
- 7 INFILL ANY AREA BETWEEN CURB AND ANY DAMAGED PAVEMENT TO BE INFILLED WITH CONCRETE WHICH WILL BE INCIDENTAL TO THE CONTRACT.



## CURB AND GUTTER REPAIR DETAIL AS DIRECTED BY ENGINEER

KILGORE ROAD  
TYPICAL CROSS SECTION (MILL AND HMA OVERLAY)

SCALE  
H: NTS V: NTS  
SHEET  
2

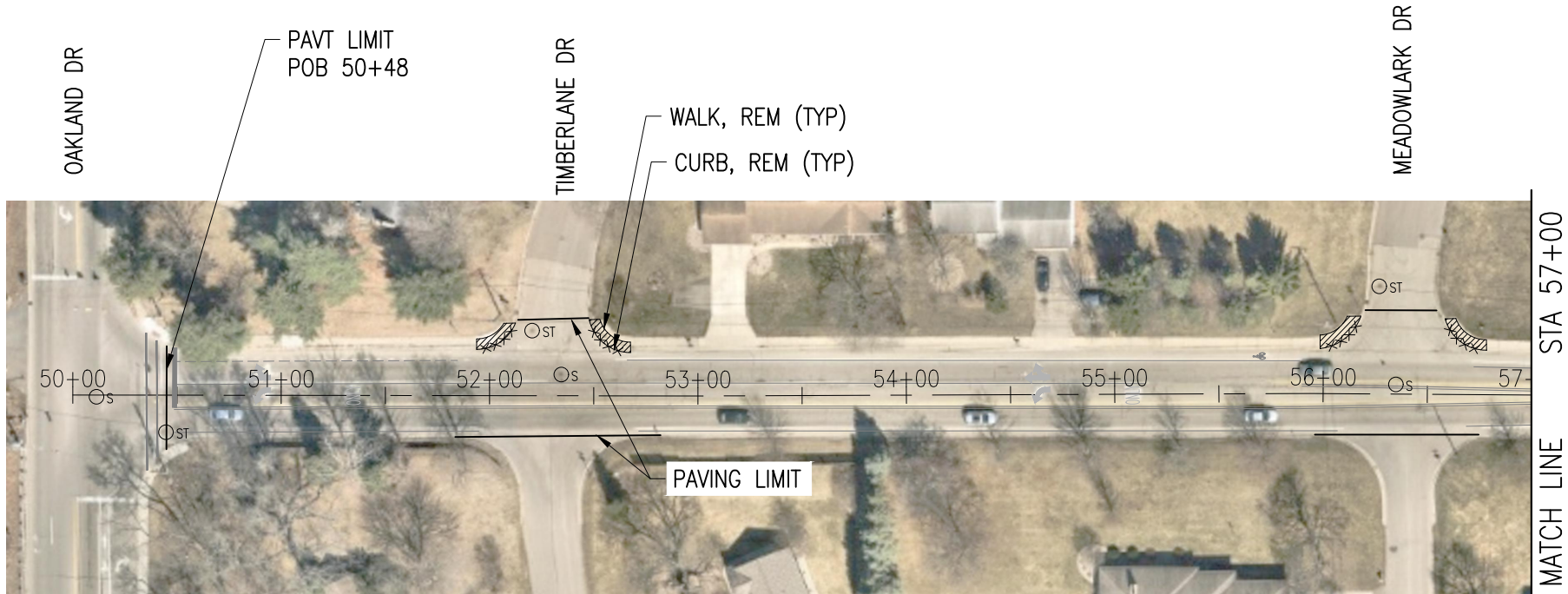
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JOB #  
0039-21-0050



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# KILGORE ROAD



## LEGEND

-  SIDEWALK REMOVE & REPLACE
-  CURB AND GUTTER REMOVAL

## NOTES:

1. SOUTH SIDE INTERSECTION PAVING LIMITS ARE TO FOLLOW CURB AND GUTTER EDGE OF METAL.
2. STRUCTURE ADJUSTMENTS TO FOLLOW THE SHEET 15 MANHOLE SCHEDULE.

KILGORE ROAD REPAVING  
CONSTRUCTION PLAN  
P.O.B. TO STA 57+00

SCALE  
H: 1"=80' V: N/A  
SHEET  
**3**



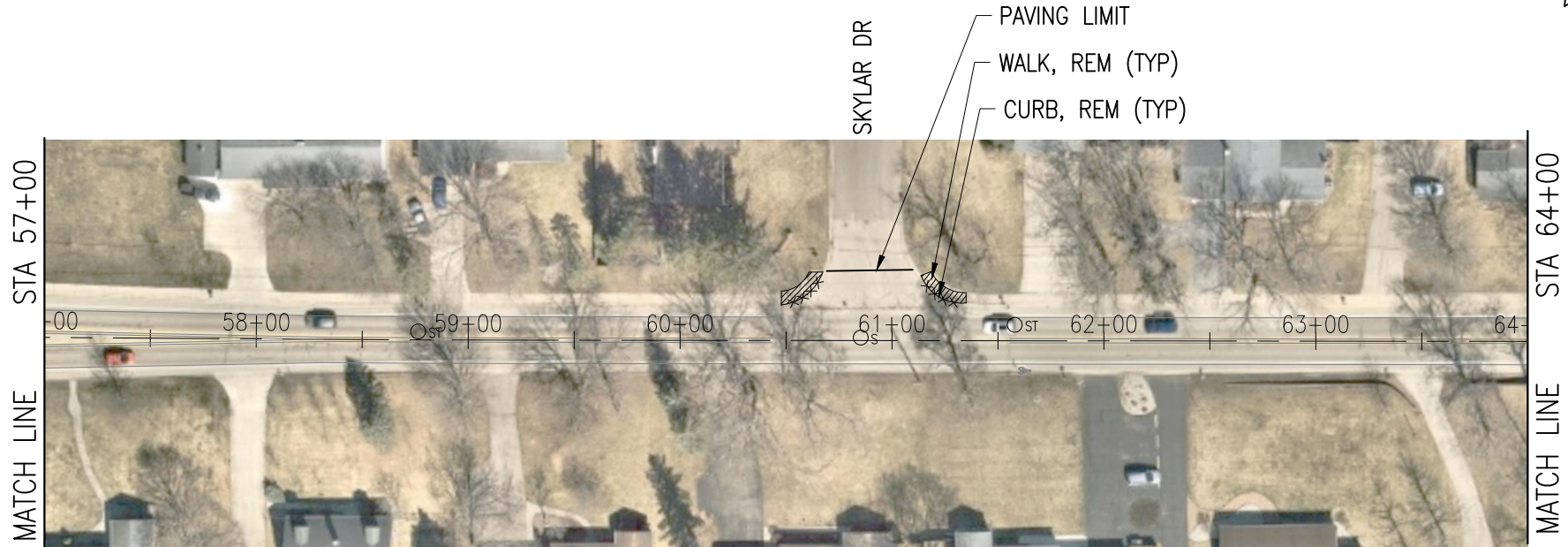
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CITY OF KALAMAZOO

JOB #  
0039-21-0050



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# KILGORE ROAD



## LEGEND

-  SIDEWALK REMOVE & REPLACE
-  CURB AND GUTTER REMOVAL

## NOTES:

1. SOUTH SIDE INTERSECTION PAVING LIMITS ARE TO FOLLOW CURB AND GUTTER EDGE OF METAL.
2. STRUCTURE ADJUSTMENTS TO FOLLOW THE SHEET 15 MANHOLE SCHEDULE.

KILGORE ROAD REPAVING  
CONSTRUCTION PLAN  
STA 57+00 TO STA 64+00

SCALE  
H: 1"=80' V: N/A  
SHEET  
**4**



CLIENT:  
CITY OF KALAMAZOO

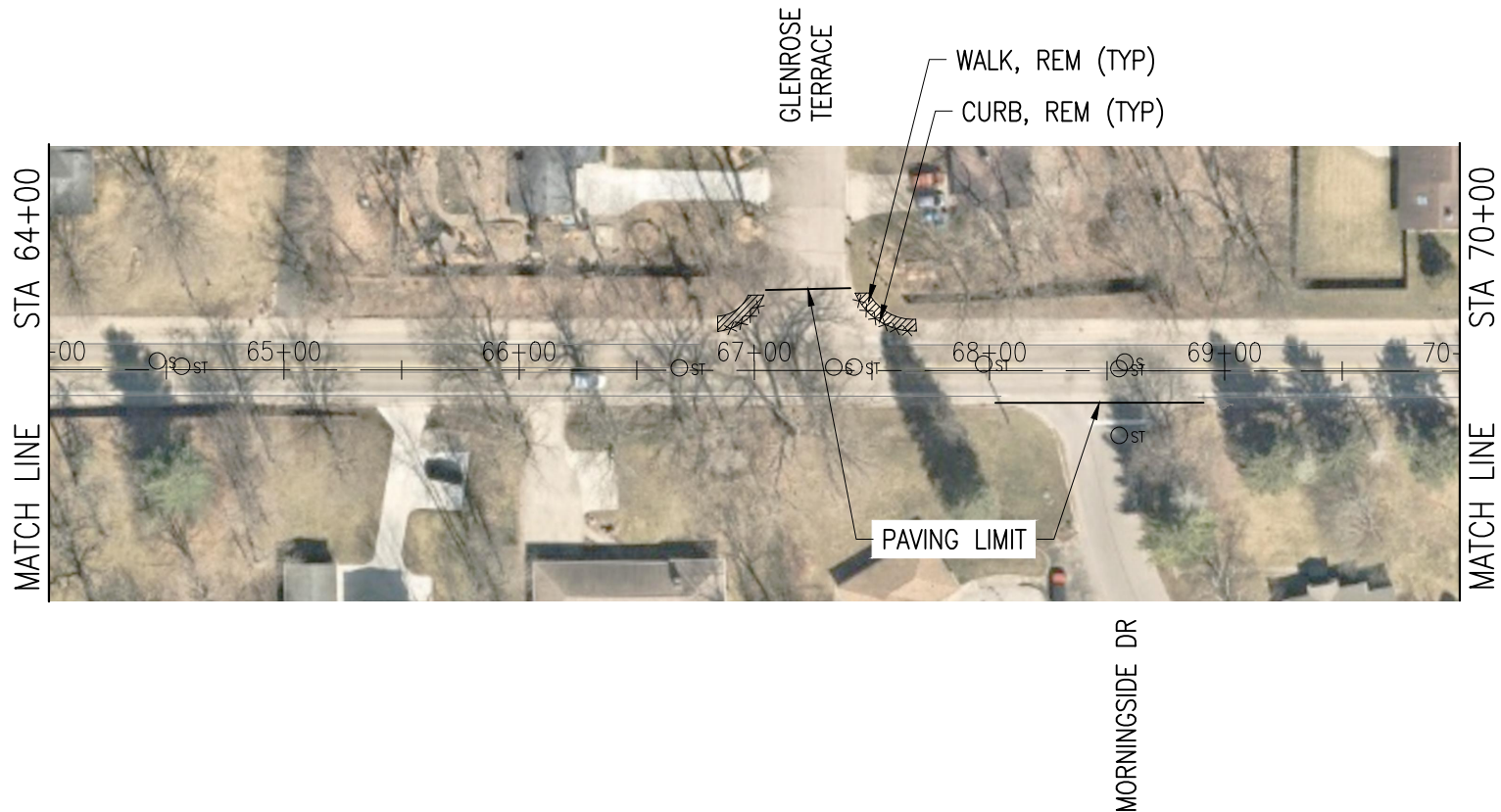
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
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# KILGORE ROAD



## LEGEND

-  SIDEWALK REMOVE & REPLACE
-  CURB AND GUTTER REMOVAL

## NOTES:

1. SOUTH SIDE INTERSECTION PAVING LIMITS ARE TO FOLLOW CURB AND GUTTER EDGE OF METAL.
2. STRUCTURE ADJUSTMENTS TO FOLLOW THE SHEET 15 MANHOLE SCHEDULE.

KILGORE ROAD REPAVING  
CONSTRUCTION PLAN  
STA 64+00 TO STA 70+00

SCALE  
H: 1"=80' V: N/A  
SHEET  
**5**

CLIENT:  
CITY OF KALAMAZOO

JOB #  
0039-21-0050



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# KILGORE ROAD



## LEGEND

-  SIDEWALK REMOVE & REPLACE
-  CURB AND GUTTER REMOVAL

## NOTES:

1. SOUTH SIDE INTERSECTION PAVING LIMITS ARE TO FOLLOW CURB AND GUTTER EDGE OF METAL.
2. STRUCTURE ADJUSTMENTS TO FOLLOW THE SHEET 15 MANHOLE SCHEDULE.

KILGORE ROAD REPAVING  
CONSTRUCTION PLAN  
STA 70+00 TO STA 77+00

SCALE  
H: 1"=80' V: N/A  
SHEET  
**6**



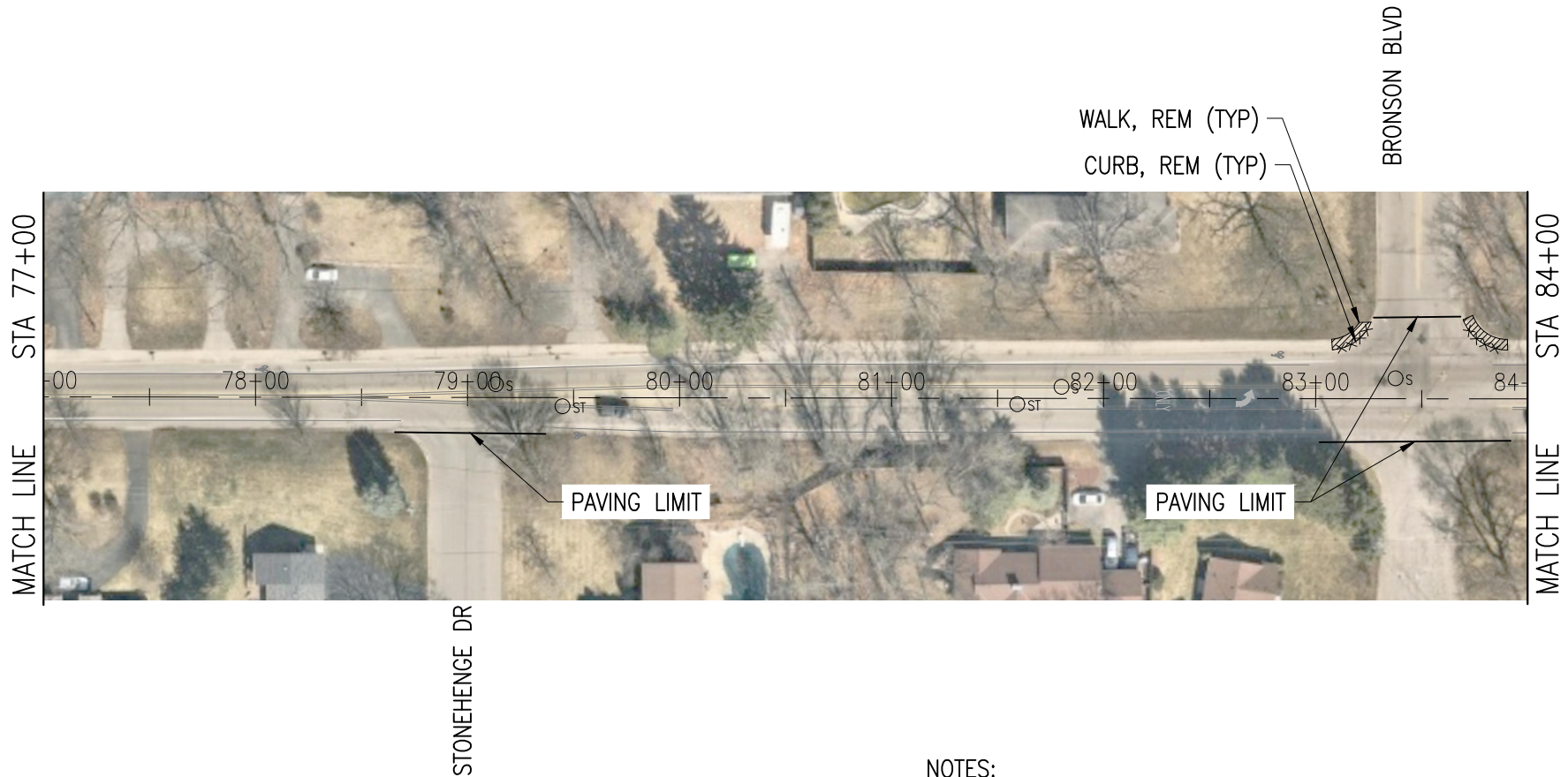
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# KILGORE ROAD



## LEGEND

-  SIDEWALK REMOVE & REPLACE
-  CURB AND GUTTER REMOVAL

## NOTES:

1. SOUTH SIDE INTERSECTION PAVING LIMITS ARE TO FOLLOW CURB AND GUTTER EDGE OF METAL.
2. STRUCTURE ADJUSTMENTS TO FOLLOW THE SHEET 15 MANHOLE SCHEDULE.

KILGORE ROAD REPAVING  
CONSTRUCTION PLAN  
STA 77+00 TO STA 84+00

SCALE  
H: 1"=80' V: N/A  
SHEET  
**7**



CLIENT:  
CITY OF KALAMAZOO

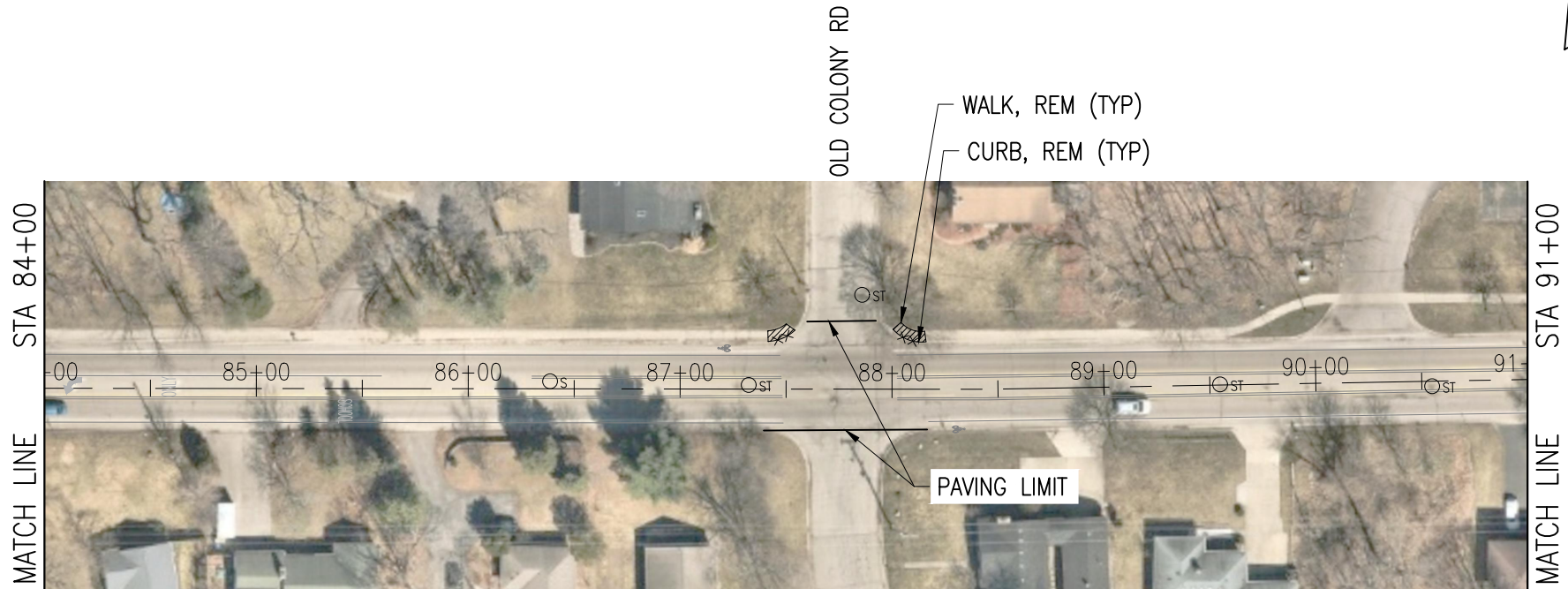
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# KILGORE ROAD



## LEGEND

-  SIDEWALK REMOVE & REPLACE
-  CURB AND GUTTER REMOVAL

## NOTES:

1. SOUTH SIDE INTERSECTION PAVING LIMITS ARE TO FOLLOW CURB AND GUTTER EDGE OF METAL.
2. STRUCTURE ADJUSTMENTS TO FOLLOW THE SHEET 15 MANHOLE SCHEDULE.

KILGORE ROAD REPAVING  
CONSTRUCTION PLAN  
STA 84+00 TO STA 91+00

SCALE  
H: 1"=80' V: N/A  
SHEET  
**8**

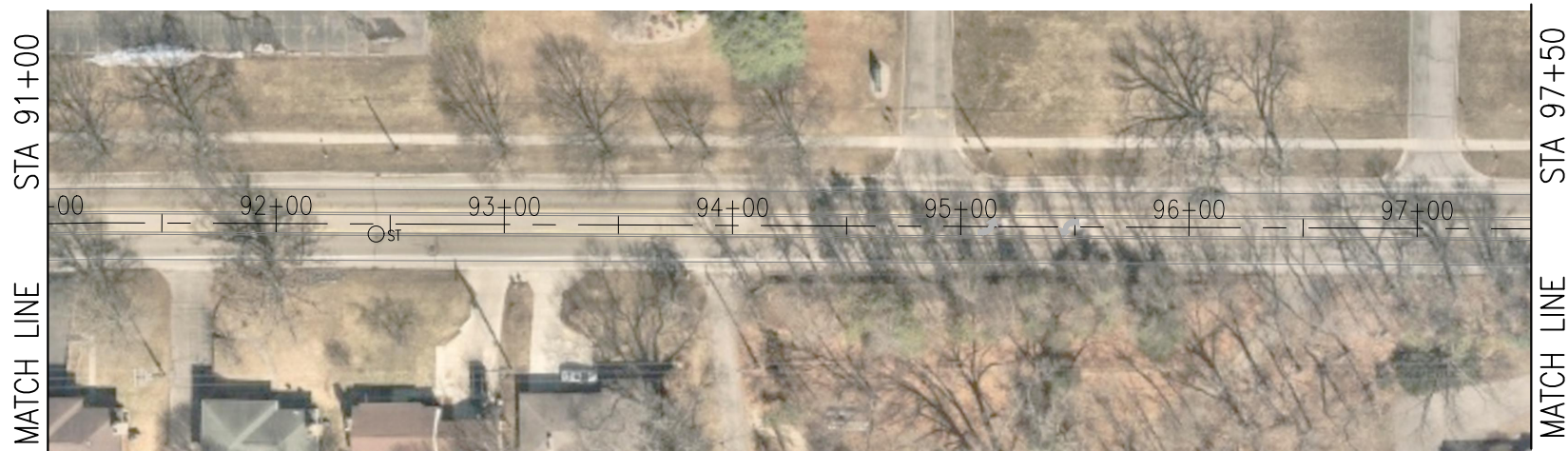
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# KILGORE ROAD



## LEGEND

-  SIDEWALK REMOVE & REPLACE
-  CURB AND GUTTER REMOVAL

## NOTES:

1. SOUTH SIDE INTERSECTION PAVING LIMITS ARE TO FOLLOW CURB AND GUTTER EDGE OF METAL.
2. STRUCTURE ADJUSTMENTS TO FOLLOW THE SHEET 15 MANHOLE SCHEDULE.

KILGORE ROAD REPAVING  
CONSTRUCTION PLAN  
STA 91+00 TO STA 97+50

SCALE  
H: 1"=80' V: N/A  
SHEET  
9



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CITY OF KALAMAZOO

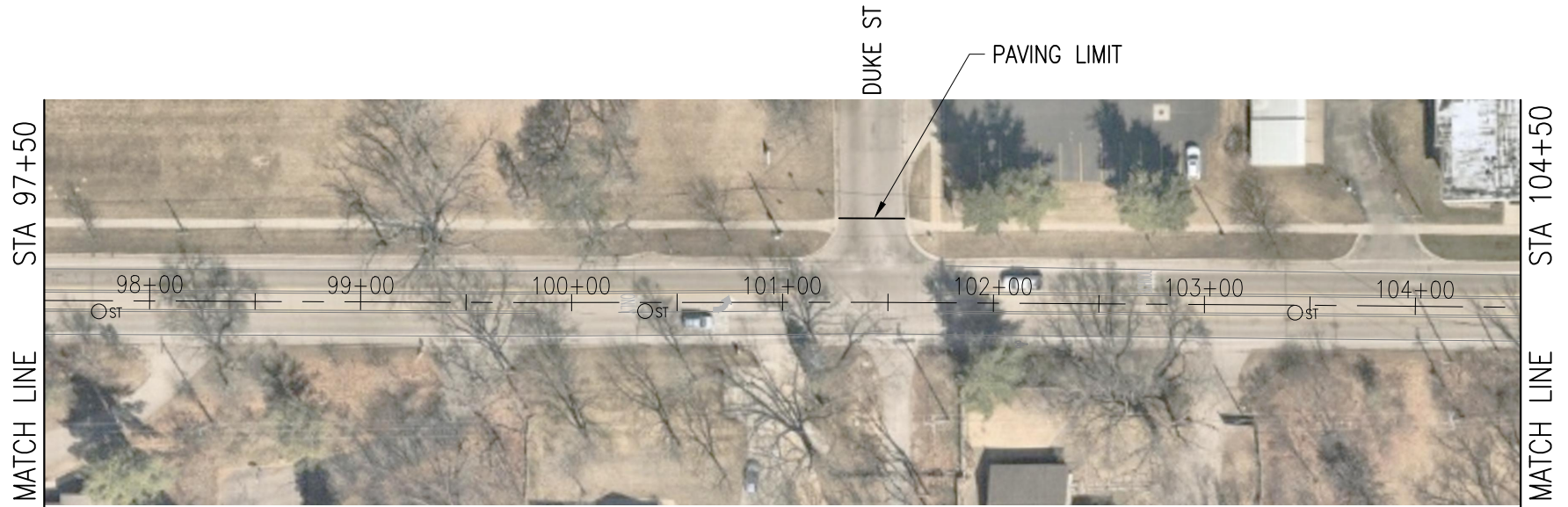
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# KILGORE ROAD



## LEGEND

-  SIDEWALK REMOVE & REPLACE
-  CURB AND GUTTER REMOVAL

## NOTES:

1. SOUTH SIDE INTERSECTION PAVING LIMITS ARE TO FOLLOW CURB AND GUTTER EDGE OF METAL.
2. STRUCTURE ADJUSTMENTS TO FOLLOW THE SHEET 15 MANHOLE SCHEDULE.

KILGORE ROAD REPAVING  
CONSTRUCTION PLAN  
STA 97+50 TO STA 104+50

SCALE  
H: 1"=80' V: N/A  
SHEET  
10



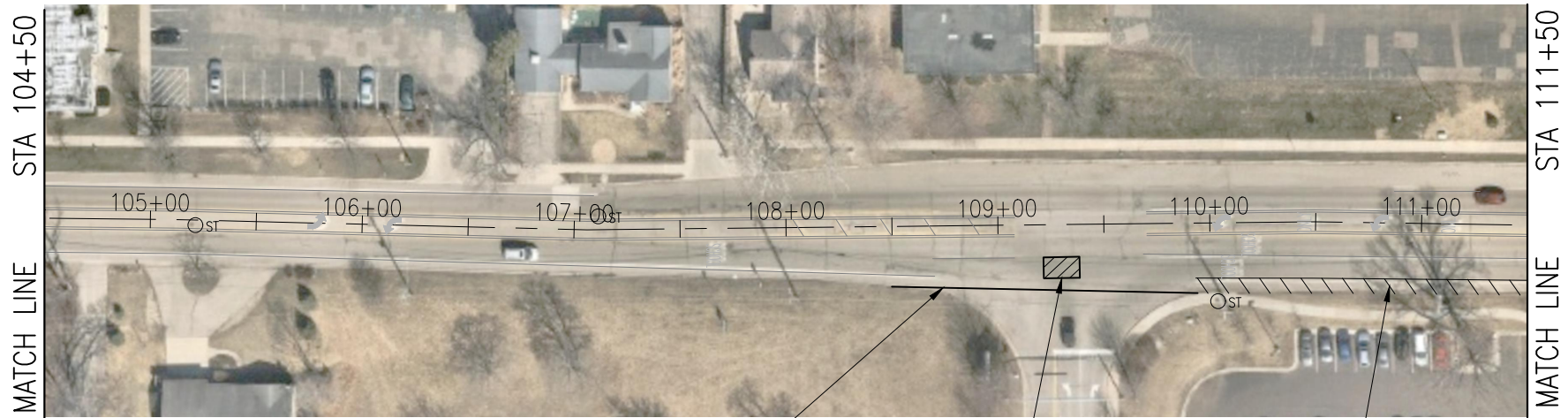
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# KILGORE ROAD





PAVING LIMIT

HMA PATCH  
PAY ITEMS INCLUDE:  
"Pavt, Rem, Modified"  
"Hand Patching"

NOTE: THIS ITEM IS  
"Pavt Mrkg, 12 inch,  
Cross Hatching, White"

## LEGEND

-  SIDEWALK REMOVE & REPLACE
-  CURB AND GUTTER REMOVAL

## NOTES:

1. SOUTH SIDE INTERSECTION PAVING LIMITS ARE TO FOLLOW CURB AND GUTTER EDGE OF METAL.
2. STRUCTURE ADJUSTMENTS TO FOLLOW THE SHEET 15 MANHOLE SCHEDULE.

KILGORE ROAD REPAVING  
CONSTRUCTION PLAN  
STA 104+50 TO STA 111+50

SCALE  
H: 1"=80' V: N/A  
SHEET  
**11**



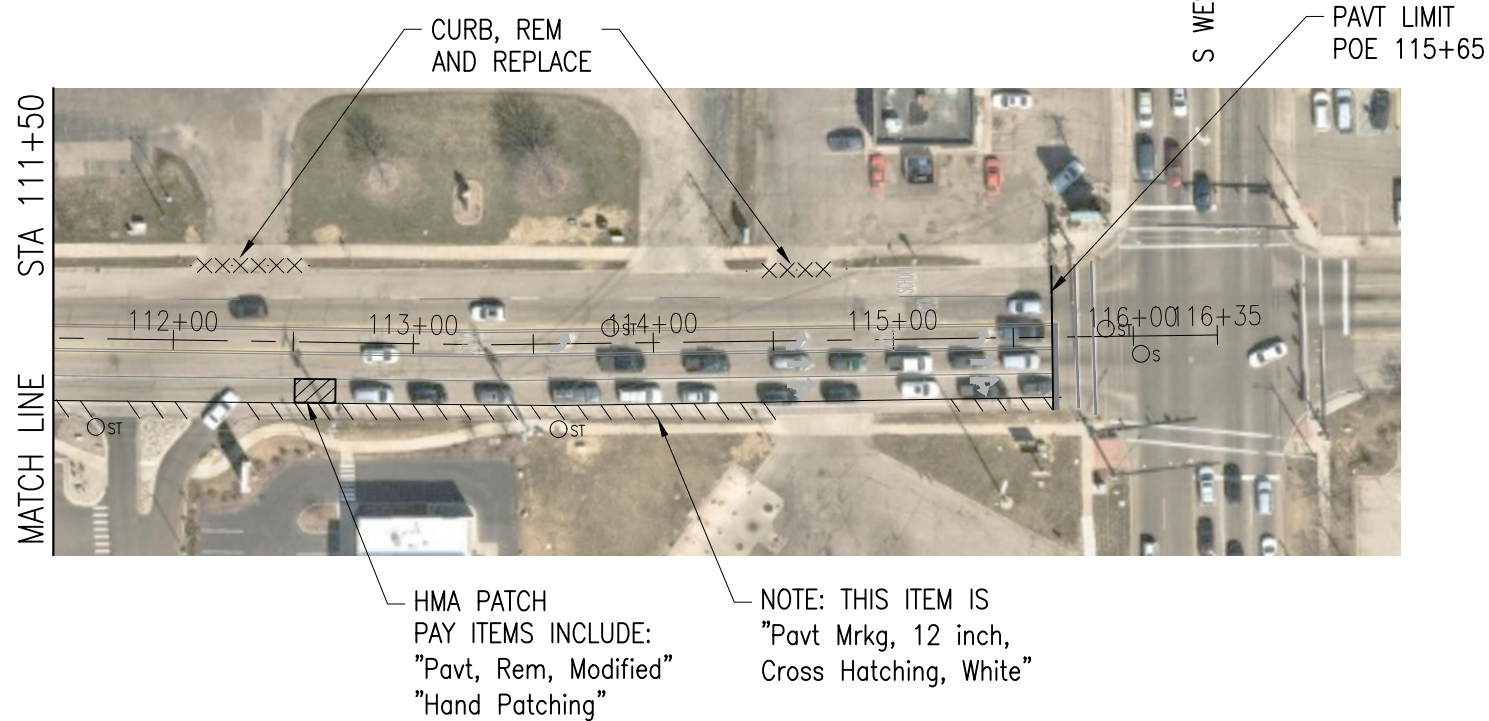
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

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# KILGORE ROAD



## LEGEND

-  SIDEWALK REMOVE & REPLACE
-  CURB AND GUTTER REMOVAL

## NOTES:

1. SOUTH SIDE INTERSECTION PAVING LIMITS ARE TO FOLLOW CURB AND GUTTER EDGE OF METAL.
2. STRUCTURE ADJUSTMENTS TO FOLLOW THE SHEET 15 MANHOLE SCHEDULE.

KILGORE ROAD REPAVING  
CONSTRUCTION PLAN  
STA 111+50 TO P.O.E.

SCALE  
H: 1"=80' V: N/A  
SHEET  
**12**

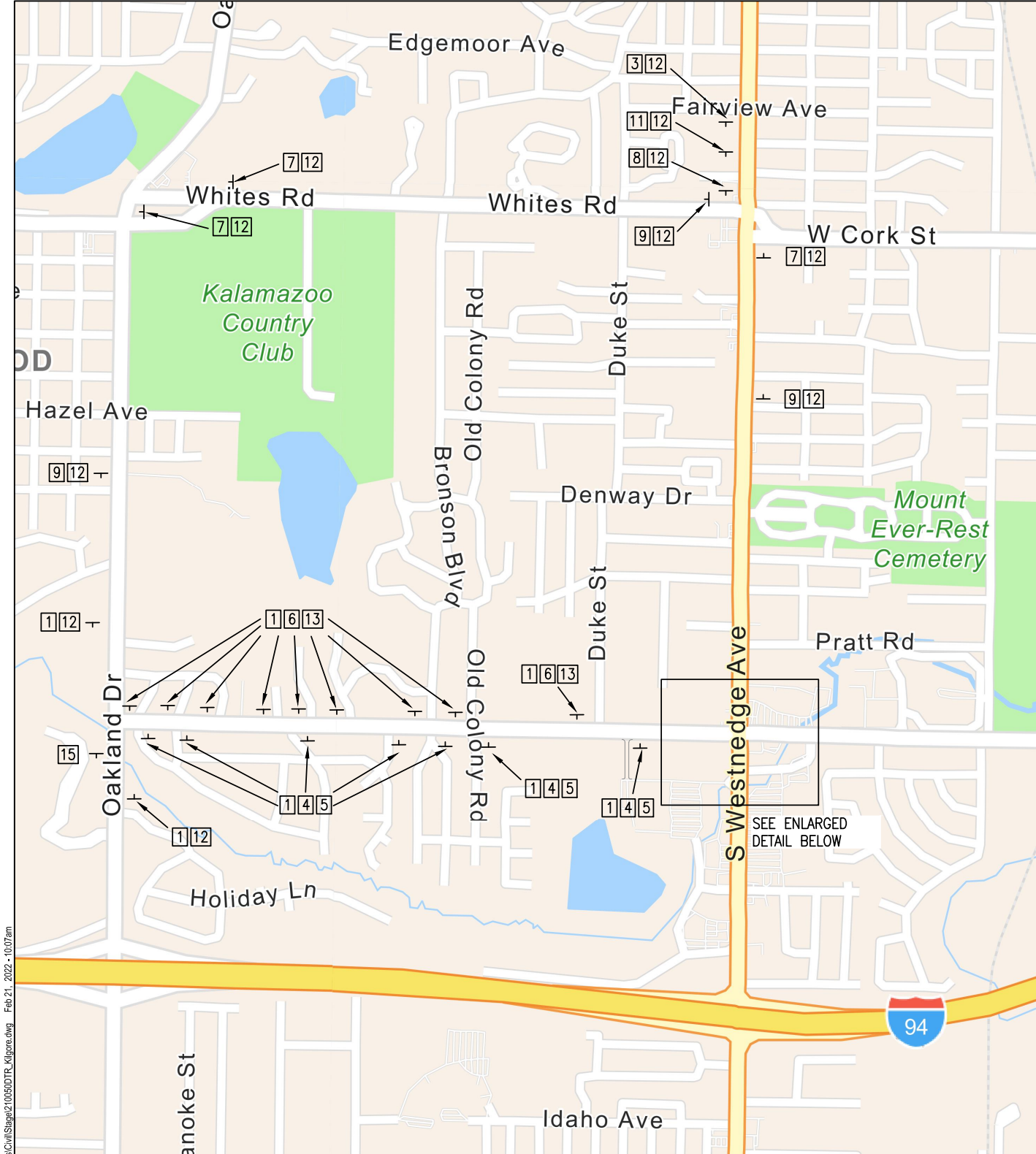
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NOTES:

- 1. SIGNS 4 & 13 ARE TO BE PLACED ON THE OPPOSITE SIDE OF THE STREET ACROSS FROM SIDE STREET.
- 2. PCMS BOARD LOCATION AS DIRECTED BY THE ENGINEER.

LEGEND

- TEMPORARY SIGN
- BARRICADE, TYPE III, HIGH INTENSITY, DOUBLE SIDED, LIGHTED
- LIGHTED ARROW, TYPE C

SIGNING REQUIREMENTS				
#	SIGN	SIGN DESIGNATION	SIZE	NO. REQ.
1.		W20-1	48 x 48	21
2.		W20-5C	48 x 48	1
3.		W20-3	48 x 48	5
4.		R6-1R	12 x 36	8
5.		R3-2	24 x 24	7
6.		R3-1	24 x 24	10
7.		M4-9L	30 x 24	3
8.		M4-9R	30 x 24	2
9.		M4-9U	30 x 24	4

SIGNING REQUIREMENTS				
#	SIGN	SIGN DESIGNATION	SIZE	NO. REQ.
10.		R5-18C	48 x 48	2
11.		W20-2	48 x 48	3
12.		SS-1	12 x 36	20
13.		R6-1L	12 x 36	10
14.		R11-2	48 x 30	4
15.		M4-8a	24 x 18	2
16.		R5-1	30 x 30	1

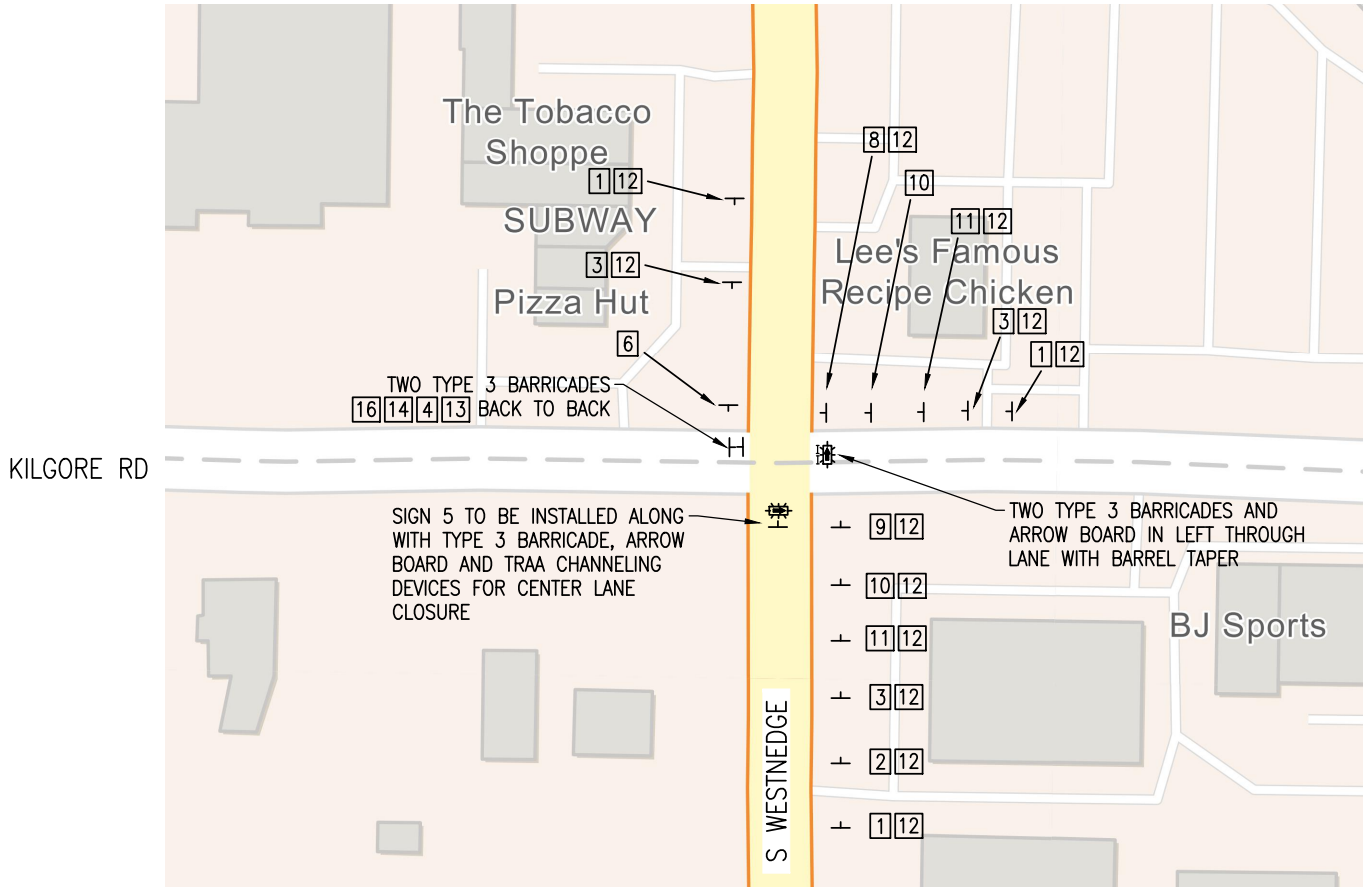
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REVISIONS:	.....
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SHEET	CITY OF KALAMAZOO KILGORE ROAD REPAVING DETOUR PLAN
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KILGORE RD

S WESTNEDGE

LEGEND

PHASE 1

PHASE 1A

PLASTIC DRUM, HIGH INTENSITY

LIGHTED ARROW, TYPE C

TYPE III BARRICADE

PHASE 1:  
MILL AND FILL OUTSIDE LANES WHILE MAINTAINING EB TRAFFIC IN OTHER 2 EB LANES. WB WILL BE STILL CLOSED. THIS IS A 1 DAY OPERATION.

PHASE 1A:  
MILL AND FILL SOUTHERN WB LANE AND NORTHERN 2 EB LANES. THE SOUTHERN EB LANE WILL BE USED AS A LEFT, THRU, RIGHT LANE FOR 1 DAY WHILE PAVING OPERATIONS OCCUR.

NOTE:  
THE STRUCTURES WILL BE ADJUSTED DURING LATER PHASE AND CAN BE DONE WITH LIMITED LANE CLOSURE WHILE MAINTAINING AT LEAST 2 EB LANES.

CHANGEABLE MESSAGE BOARDS WILL BE PLACED.

NOT TO SCALE

ARCHITECTS ENGINEERS PLANNERS

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REVISIONS:

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DATE	PROJ NUMBER	ENG	PROJ MGR	CADD	COUNTY	CITY/VILAGE/TOWNSHIP	SCALE	HORIZ DATUM	VERT DATUM
###	009851-0050	TJL	Val#	PR	KALAMAZOO	KALAMAZOO	H: NTS V: NTS	-	-

CITY OF KALAMAZOO

KILGORE ROAD REPAVING

DETOUR - KILGORE RD & WESTNEDGE

SHEET

14

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MANHOLES						
Location	Dr Structure Cover, Type 1, Modified (Ea)	Str Cover, Adj, Add Depth (ft)	Dr Structure Cover , Type B (Ea)	Temp Lowering (Ea)	Gate Box, Adjust, Case 1, Modified (Ea)	Gate Valve Box, Top Section, Modified (Ea)
Roadway	54	108	5	81	27	15
VERIFY STRUCTURE COVER TYPES AND QUANTITIES PRIOR TO ORDERING—SANITARY SEWER COVERS SUPPLIED BY CITY						
Totals:	54	108	5	81	27	15

Concrete Removal			Concrete Placement		
Location	Curb and Gutter, Rem (Ft)	Pavt Rem, Modified (Dr Approach) (Syd)	Curb and Gutter, Conc, Det F4 (Ft)	Hand Patching (ton)	Driveway, Nonreinf Conc, 6 inch (Syd)
112+31, L	25	6	25	2	
114+63, L	10	2	10	1	
Misc	75	17	75	6	
Misc		45	0	16	45.0
Totals	110	69	110	24	45

KILGORE ROAD REPAVING  
CONCRETE

SCALE  
H: N/A V: N/A  
SHEET  
16



CITY OF KALAMAZOO

0039-21-0050

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Concrete Removal				Concrete Placement				
Location	Curb and Gutter, Rem (Ft)	Pavt Rem, Modified (Dr Approach) (Syd)	Sidewalk, Rem (Syd)	Curb and Gutter, Conc, Det F4 (Ft)	Hand Patching (Tons)	Sidewalk Retaining Wall, integral, 6 inch to 18 inch Height (Sft)	Detectable Warning Surface (Ft)	Curb Ramp, Modified (Sft)
Timberlane	30	7	10	30	3	10	5	90
	30	7	14		3	15	5	125
Meadowlark	23	5	14	23	2		5	125
	28	6	14	28	2		5	126
Skylar	31	7	17	31	3	15	5	150
	24	5	14	24	2		5	126
Glenrose Terrace	22	5	14	22	2		5	125
	36	8	17	36	3		5	150
Sunset	20	4	13	20	2		5	115
	26	6	18	26	2	15	5	165
Lakeshore	32	7	16	32	3		5	145
	30	7	15	30	3		5	135
Bronson	26	6	17	26	2		5	150
	21	5	13	21	2		5	115
Old Colony	26	6	13	26	2		5	120
	24	5	14	24	2	25	5	125
Duke	17	4	26	17	2		5	235
	12	3	8	12	1		5	73
Totals	458	102	266	428	41	80	90	2395

# KILGORE ROAD REPAVING

## RAMPS

SCALE  
H: N/A V: N/A

SHEET  
17

CLIENT:  
CITY OF KALAMAZOO

JOB #  
0039-21-0050

34000 Plymouth Road | Livonia, MI 48150 | P (734) 522-6711 | F (734) 522-6427 | WWW.OHM-ADVISORS.COM

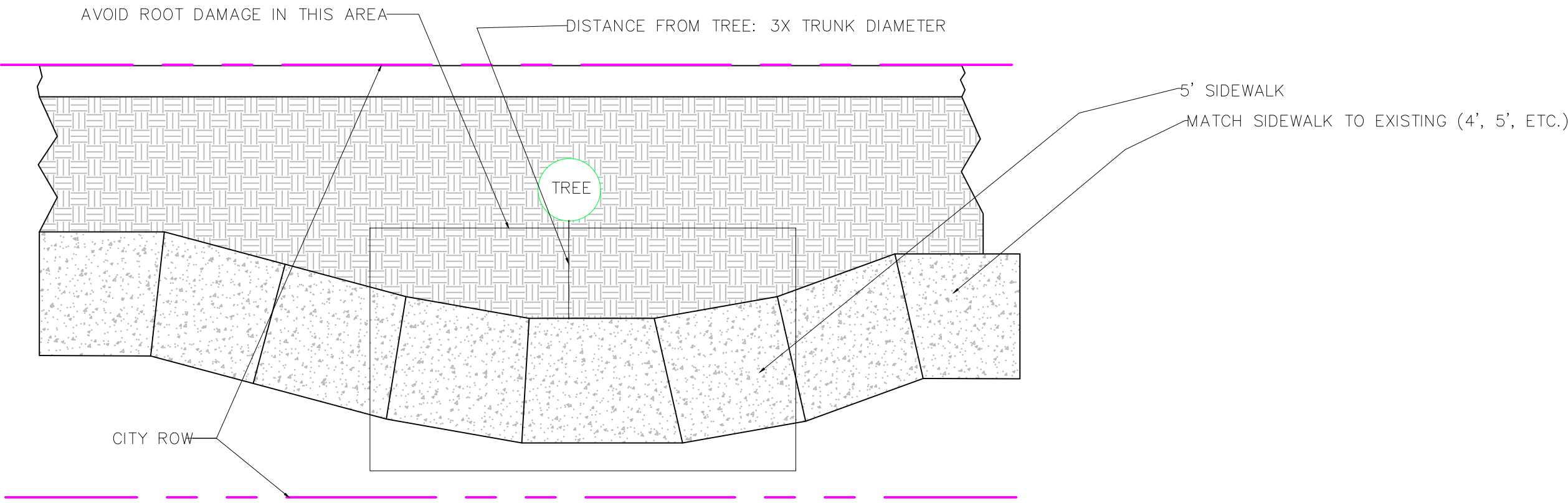
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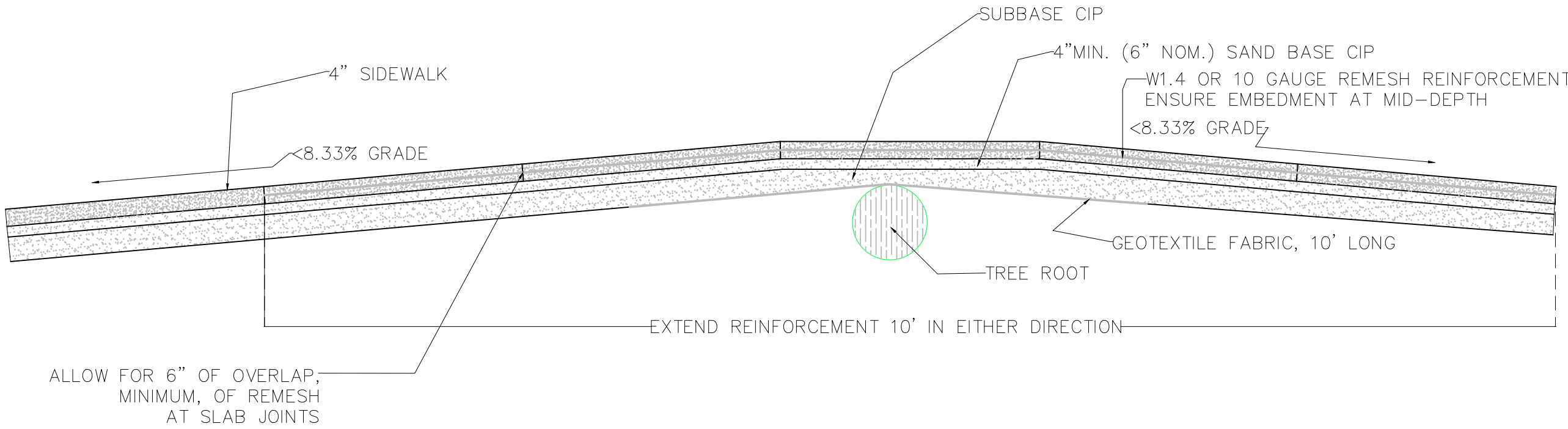




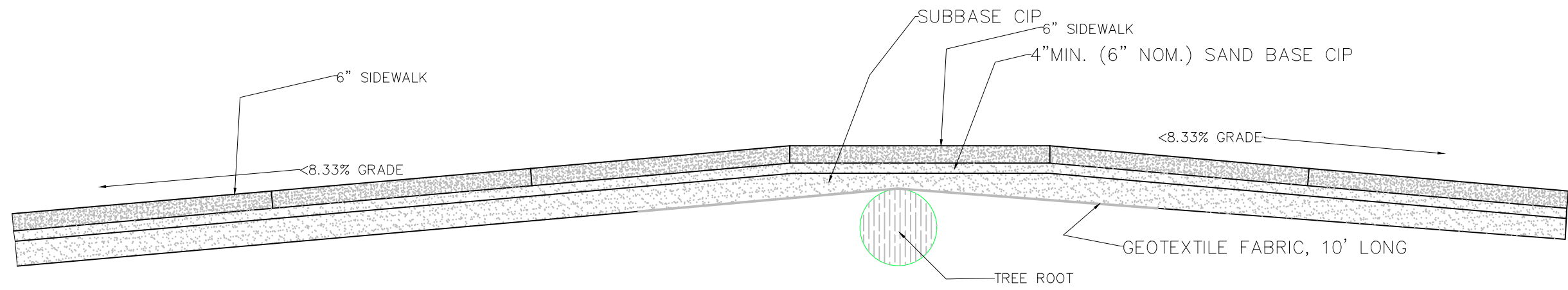
STANDARD DETAIL – SIDEWALK  
ROOT AVOIDANCE – MEANDERING SIDEWALK



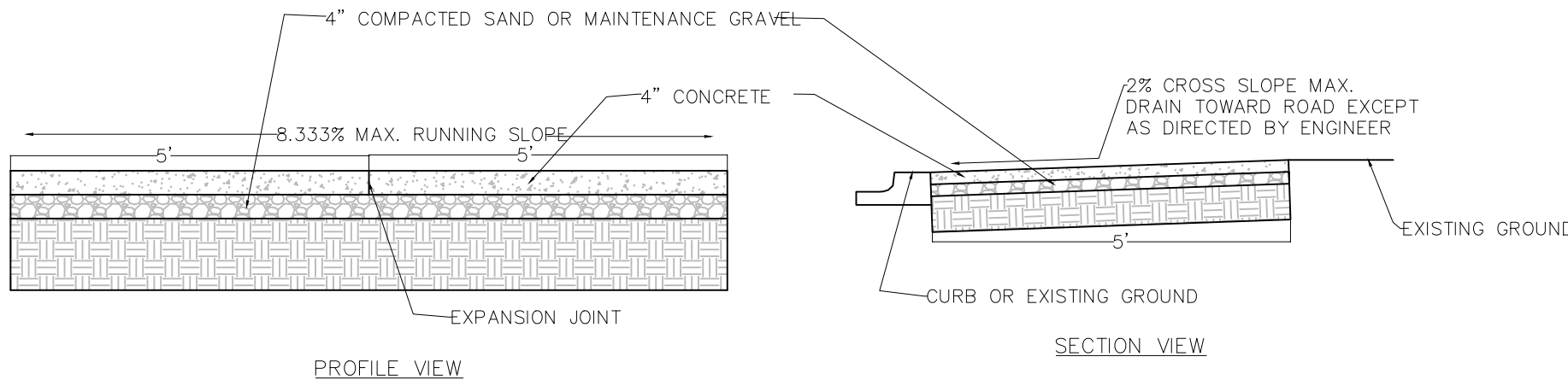
STANDARD DETAIL – SIDEWALK  
ROOT AVOIDANCE



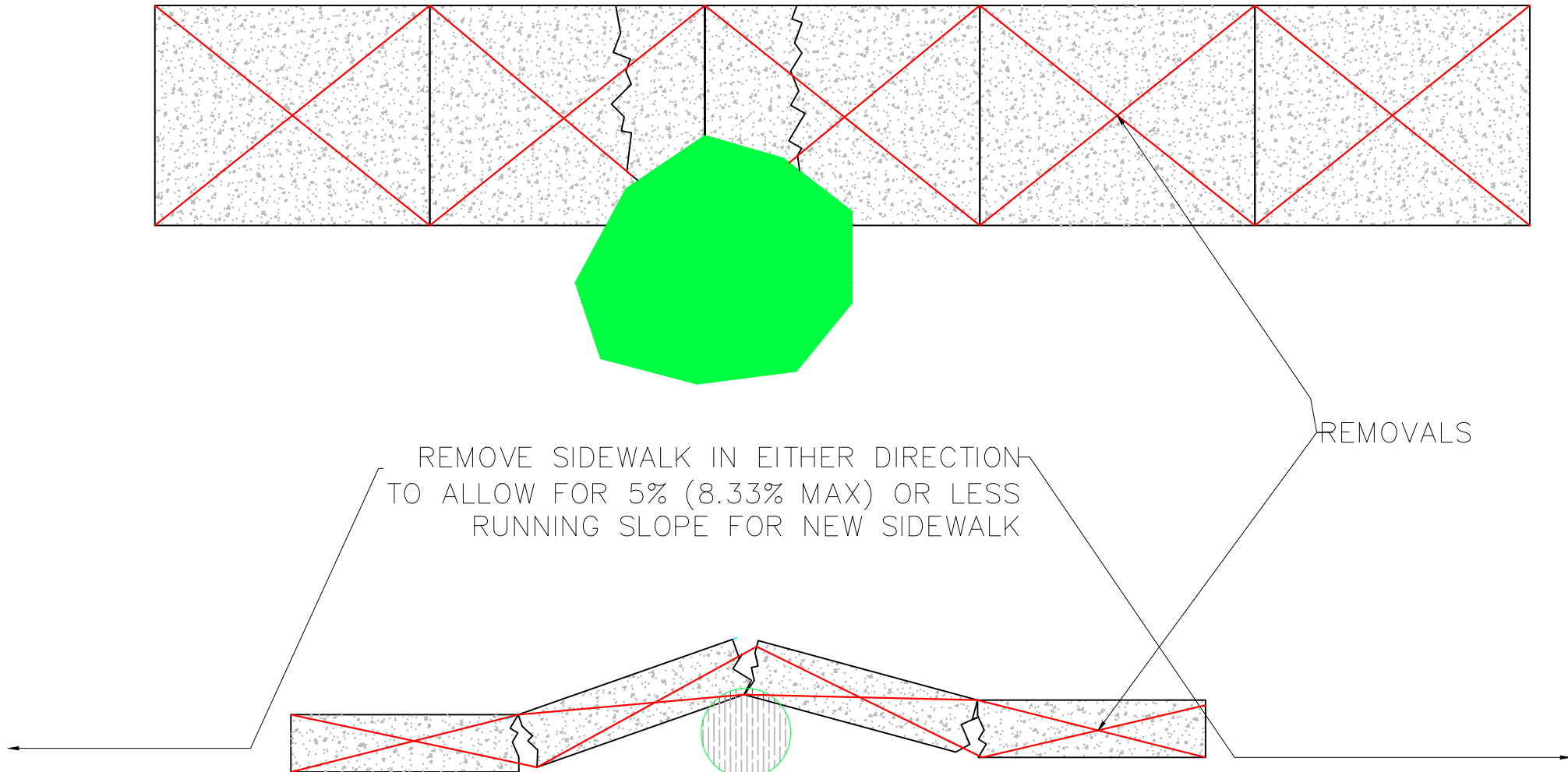
STANDARD DETAIL – SIDEWALK  
ROOT AVOIDANCE – W/O REINFORCEMENT  
(USE ONLY AS DIRECTED BY ENGINEER)



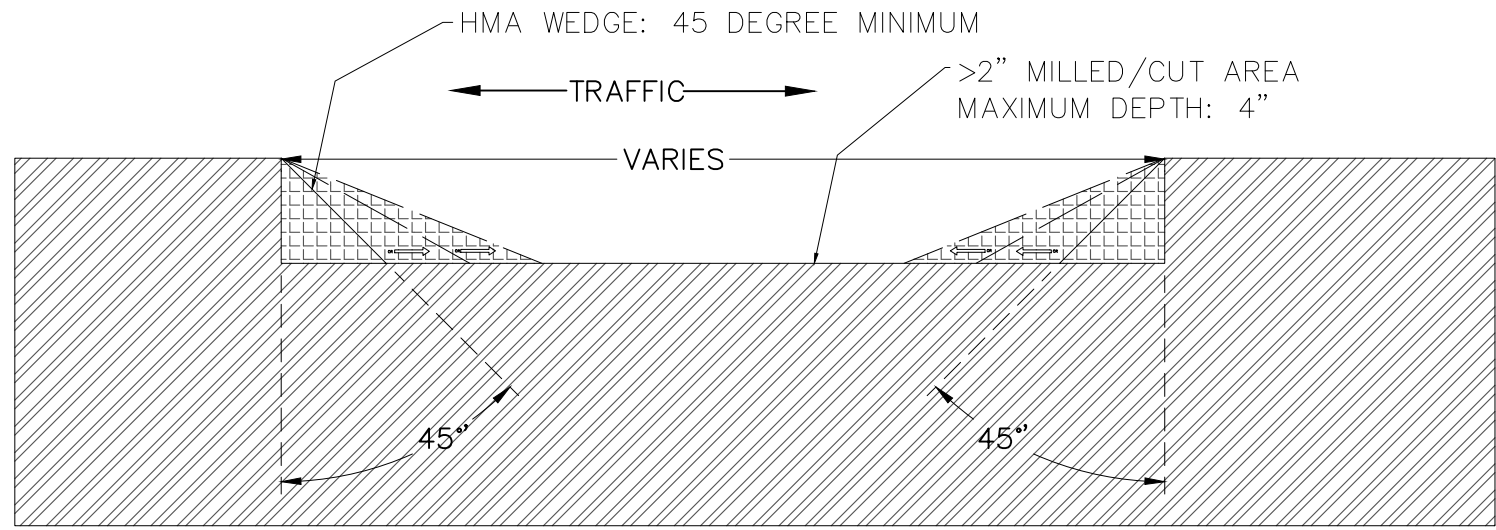
TYPICAL 4" SIDEWALK DETAIL



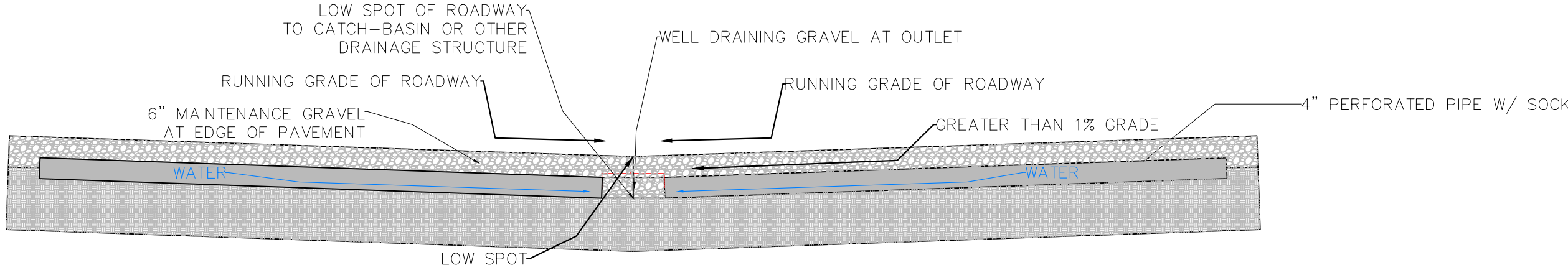
ROOT CRACKING OF SIDEWALK



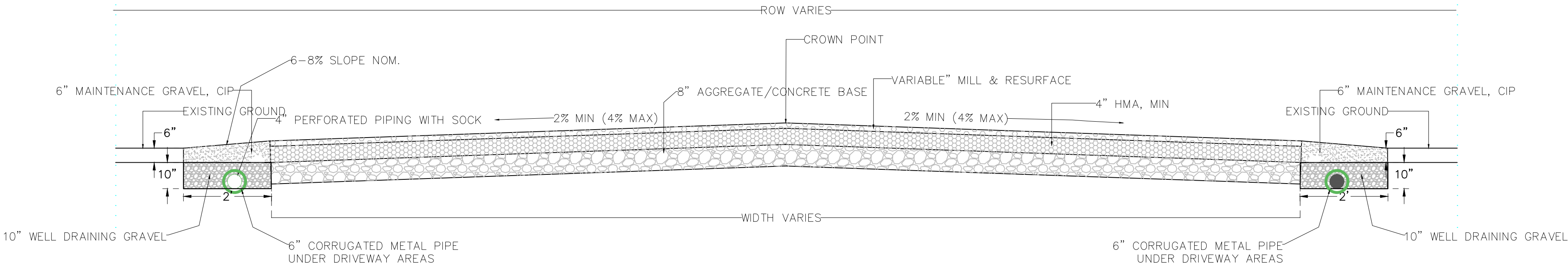
STANDARD DETAIL – WEDGING  
A CUT/MILLED SECTION



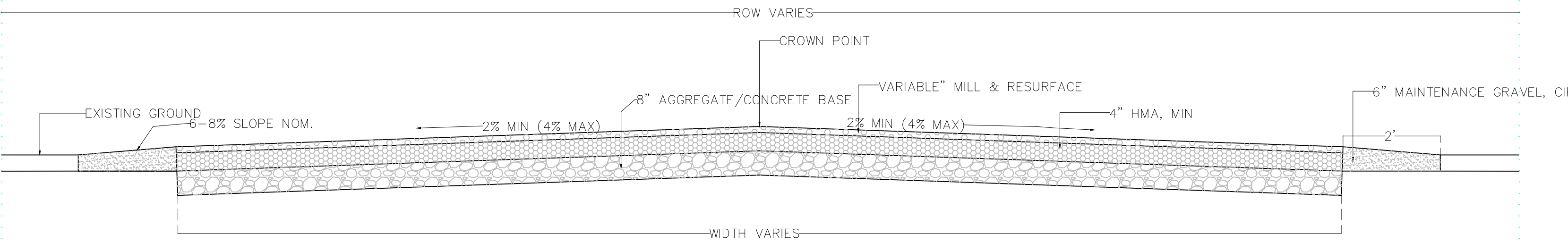
STANDARD DETAIL – LOW VOLUME/RESIDENTIAL ROADS  
PERFORATED PIPE DETAIL



STANDARD DETAIL – LOW VOLUME/RESIDENTIAL ROADS  
POORLY DRAINED AREAS



STANDARD DETAIL – LOW VOLUME/RESIDENTIAL ROADS  
EASILY DRAINED AREAS



DEPARTMENT OF PUBLIC SERVICES - Engineering			
CITY OF KALAMAZOO			
SURVEYED	N/A	SCALE	REVISIONS
DESIGNED	GHW	VERTICAL	NOT TO SCALE
DRAWN	GHW	HORIZONTAL	NOT TO SCALE
QA/QC	AL	DATE	11/23/2020
ENG PROJ #	XXX-XX		

- GENERAL NOTES:
- MDOT STANDARD PLANS R-28-J, R-29-I, R-30-G, AND R-44-F SHALL BE FOLLOWED IN CONJUNCTION WITH THESE STANDARD PLANS
  - ALL SAW CUTTING SHALL BE DONE PERPENDICULAR AND PARALLEL TO THE DIRECTION OF TRAVEL
  - SAW CUTTING SHALL PROVIDE A STRAIGHT, CLEAN, EDGE TO ENHANCE BONDING
  - ALL CUTS SHALL BE RECTANGULAR AND NEATLY CUT TO AVOID SPALLING OF PAVEMENT
  - IN GENERAL ALL ROAD/UTILITY CUTS OF AN AREA GREATER THAN 25SFT (5FTX5FT TYPICAL) SHALL EXTEND THE FULL WIDTH OF THE TRAVEL LANE
  - FOR PAVEMENT WITH LOAD TRANSFER DOWEL RODS OR REINFORCEMENT: NEW LOAD TRANSFER DOWELS/REINFORCEMENT SHALL BE PLACED TO MAINTAIN BEARING CAPACITY OF ROADWAY
  - CUTS LESS THAN 12" SHALL BE PATCHED WITH PCC. IF GREATER THAN 12", ENSURE CUT IS IN ACCORDANCE WITH STANDARD DETAILS AND MATCHING EXISTING ROADWAY
  - BUMPS/CUTS/MILLED AREAS WITH EDGE GREATER THAN 2" DEEP/HIGH MUST BE WEDGED WITH HMA BEFORE OPEN TO TRAFFIC. SEE STANDARD DETAIL.
  - MEANDERING SIDEWALK SHALL ONLY BE PLACED IN THE CITY'S ROW OR WHERE AN EASEMENT IS ESTABLISHED
  - NEW SIDEWALK CONSTRUCTION SHALL MEET OR EXCEED CURRENT ADA AND ACCESSIBILITY STANDARDS
  - REPLACED SIDEWALK SHALL, TO THE EXTENT PRACTICABLE, MEET OR EXCEED ADA AND ACCESSIBILITY STANDARDS
  - SIDEWALK, DRIVEWAY OPENINGS & APPROACHES SHALL CONFORM TO MDOT STANDARD PLAN DETAILS R-28-J AND R-29-I
  - MARSHALL MIX 13A (BASE/LEVELING) MAY BE SUBSTITUTED FOR SUPERPAVE HMA BASE MIX DESIGNS WITH CITY OF KALAMAZOO APPROVAL IF DEEMED APPROPRIATE BY THE ENGINEER
  - ASPHALT BINDER SHALL BE INCLUDED IN THE PAY ITEM FOR HMA
  - MDOT PCC P1 MIX DESIGN SHALL BE USED FOR ALL CONCRETE UNLESS OTHERWISE STATED OR DIRECTED BY THE ENGINEER
  - OPENING TO TRAFFIC STRENGTHS (2012 STANDARD SPECIFICATIONS FOR CONSTRUCTION, TABLE 603-1):
    - <72 HOURS, GRADE P-NC, 300 psi
    - 72 HOURS +, GRADE P1, P1M, 550 psi





STANDARD DETAILS

CITY OF KALAMAZOO

SURVEYED	N/A	SCALE	REVISIONS
DESIGNED	GHW	VERTICAL	NOT TO SCALE
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