SEL

JUN 2014

PROJECT ID: 2718-00-74
WITH: N/A

06

COUNTY: WAUKESHA

ORDER OF SHEETS

Section No. 1	Title
Section No. 2	Typical Sections and Details
Section No. 3	Estimate of Quantities
Section No. 3	Miscellaneous Quantities
~~Section No. 4~~	~~Right of Way Plat~~
Section No. 5	Plan and Profile
Section No. 6	Standard Detail Drawings
~~Section No. 7~~	~~Sign Plates~~
~~Section No. 8~~	~~Structure Plans~~
Section No. 9	Computer Earthwork Data
Section No. 9	Cross Sections

TOTAL SHEETS = 174

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

SUMMIT AVENUE

CROSS STREET TO MAPLE LANE

LOCAL STREET, CITY OF OCONOMOWOC
WAUKESHA COUNTY

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
2718-00-74	WISC 2014228	1

COORDINATES AND BEARINGS ON THIS PLAT ARE ORIENTATED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, WAUKESHA COUNTY ZONE (US FEET), COMPILED FROM THE CONVERSION OF WISCONSIN STATE PLANE COORDINATE SYSTEM GRID, SOUTH ZONE, NAD-27 TO THE WISCONSIN COUNTY SYSTEMS, WAUKESHA COUNTY, US FEET, UTILIZING 2009 ACAD CIVIL 3D LAND DESKTOP SOFTWARE.
VERTICAL DATUM IS THE NORTH AMERICAN VERTICAL DATUM OF 1988.

N

DESIGN DESIGNATION

A.A.D.T. 2014	=	10900/11600/12500/16100
A.A.D.T. 2034	=	12000/12800/13800/17800
D.H.V.	=	1404/1498/1615/2083
D.D.	=	59/41
T.	=	3.2
DESIGN SPEED	=	30
ESALS	=	868,700/949,000/949,000/1,204,500/1,204,500

CONVENTIONAL SYMBOLS

PLAN
- CORPORATE LIMITS
- PROPERTY LINE
- LOT LINE
- CONSTRUCTION PERMIT
- EXISTING RIGHT OF WAY
- PROPOSED OR NEW R/W LINE
- SLOPE INTERCEPT
- REFERENCE LINE
- EXISTING CULVERT
- PROPOSED CULVERT (Box or Pipe)
- COMBUSTIBLE FLUIDS — CAUTION
- MARSH AREA
- WOODED OR SHRUB AREA

PROFILE
- GRADE LINE
- ORIGINAL GROUND
- MARSH OR ROCK PROFILE (To be noted as such) — ROCK
- SPECIAL DITCH — LABEL
- GRADE ELEVATION — 95.36
- CULVERT (Profile View)

UTILITIES
- ELECTRIC — E
- CABLE TELEVISION — TV
- FIBER OPTIC — FO
- GAS — G
- SANITARY SEWER — SAN
- STORM SEWER — SS
- TELEPHONE — T
- WATER — W
- UTILITY PEDESTAL
- POWER POLE
- TELEPHONE POLE
- UTILITY POLE

BEGIN PROJECT
2718-00-74 STA. 13+34
X = 611912.86
Y = 196830.57

STATE PROJECT NUMBER
2718-00-74

END PROJECT
2718-00-74 STA. 73+87
X = 616264.98
Y = 192688.48

LAYOUT
SCALE 0 500' 1000'

TOTAL NET LENGTH OF CENTERLINE = 1.130 MI. (URBAN)

ACCEPTED FOR
CITY of OCONOMOWOC

01.24.14 (Date) — Dir. of Public Works (Signature & Title of Official)

Ruekert-Mielke
engineering solutions for a working world
W233 [illegible] Parkway • Waukesha, WI 53188 [illegible]
(262) 542-5733 Fax: (262) 542-5831 • www.ruekert-mielke.com

WISCONSIN
STANLEY R. SUGDEN
E-27661
MUKWONAGO, WI
PROFESSIONAL ENGINEER

1/24/2014 (Date) — (Signature)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	RUEKERT/MIELKE
Designer	RUEKERT/MIELKE
Management Consultant	DAAR ENGINEERING
C.O. Examiner	

APPROVED FOR THE DEPARTMENT
DATE: 1/28/2014 (Management Consultant Signature)

E

FILE NAME : G:\C3D\4792219\DWG\Z-000-COVER.DWG PLOT DATE : 1/24/2014 9:01 AM PLOT BY : KLOSKOWSKI, CHRYSA PLOT NAME : PLOT SCALE : 500:1

WISDOT/CADDS SHEET 10

ORDER OF SECTION 2 SHEETS

GENERAL NOTES
PROJECT OVERVIEW
TYPICAL SECTIONS
CONSTRUCTION DETAILS
TIE SHEET
INTERSECTION DETAILS
EROSION CONTROL
STORM SEWER/UTILITY PLAN
PAVEMENT MARKING
STAGING PLAN
TRAFFIC CONTROL
DETOUR PLAN
ALIGNMENT DETAIL
PLAN DETAILS
CONSTRUCTION PERMITS

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Toll Free (800) 242-8511
~~Milwaukee Area (414) 259-1181~~ **Dial 811**
Hearing Impaired TDD (800) 542-2289
www.DiggersHotline.com

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GENERAL NOTES

1. NO TREES OR SHRUBS SHALL BE REMOVED UNLESS INDICATED FOR REMOVAL BY THE ENGINEER.

2. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.

3. THE CONTRACTOR SHALL NOTIFY DIGGERS HOTLINE AND AFFECTED UTILITIES PRIOR TO THE START OF WORK. ANY LOCAL MUNICIPAL UTILITY WHICH IS NOT A MEMBER OF THE DIGGERS HOTLINE MUST BE CONTACTED SEPARATELY.

4. ALL OPENING OR HOLES BELOW SUBGRADE RESULTING FROM REMOVALS OR ABANDONMENTS SHALL BE BACKFILLED WITH GRANULAR BACKFILL, UNLESS LOCATED IN AREAS WHERE EXCAVATION BELOW SUBGRADE IS REQUIRED, IN WHICH CASE BREAKOR RUN SHALL BE USED

5. WHEN THE QUANTITY OF HMA PAVEMENT IS MEASURED FOR PAYMENT BY THE TON, THE DEPTH OR THICKNESS OF THE LAYER SHOWN ON THE PLAN IS APPROXIMATE AND THE ACTUAL THICKNESS WILL DEPEND ON THE DISTRIBUTION OF THE MATERIAL AS DIRECTED BY THE ENGINEER.

6. TACK COAT SHALL BE APPLIED BETWEEN ALL LAYERS OF ASPHALTIC PAVEMENT. SEE STANDARD SPECIFICATIONS FOR APPLICATION RATE.

7. EXISTING DRIVEWAYS AND FIELD ENTRANCES SHALL BE RESTORED IN KIND AS SHOWN ON PLAN SHEETS AND AS NOTED IN THE SPECIAL PROVISIONS.

8. HMA PAVEMENT AND CONCRETE DRIVEWAYS AND/OR PARKING LOTS SHALL BE SAWCUT AT THE MATCH LINE AS SHOWN ON THE PAVING DETAILS OR AS DIRECTED BY THE ENGINEER.

9. A MILLED BUTT JOINT IS REQUIRED WHERE NEW HMA PAVEMENT MEETS EXISTING HMA PAVEMENT IN RECONSTRUCTION AREAS.

10. ALL CURB AND GUTTER RADII ARE MEASURED TO THE FLANGE UNLESS OTHERWISE NOTED.

11. CURB AND GUTTER PLAN GRADES ARE AT THE FLANGE LINE.

12. INLET AND DISCHARGE ELEVATIONS FOR DRAINAGE STRUCTURES SHOWN ON THE PLAN MAY BE ADJUSTED AS DETERMINED BY PROJECT GRADES AND APPROVED BY PROJECT ENGINEER.

13. ELEVATIONS SHOWN ON THESE PLANS ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988

14. DISTURBED AREAS WITHIN THE RIGHT-OF-WAY, SHALL BE FERTILIZED, SEEDED AND HYDROMULCHED.

15. EXCAVATION BELOW SUBGRADE (EBS) IS NOT USED TO BALANCE YARDAGE AND IS NOT SHOWN ON THE CROSS SECTIONS BUT IS MEASURED AND PAID FOR AS (COMMON, OR ROCK) EXCAVATION.

16. INLET PROTECTION IS REQUIRED AT ALL INLETS AS PER DETAIL OR AS DIRECTED BY THE ENGINEER.

17. STATIONING, DISTANCES, AND OFFSETS FOR SIGNS SHOWN ON THE PLANS ARE APPROXIMATE AND THE LOCATIONS OF SIGNS ARE TO BE DETERMINED IN THE FIELD BY THE ENGINEER.

18. ALL TYPES OF HMA PAVEMENT SHALL BE CONSTRUCTED WITH THE FOLLOWING LAYERS AND GRADATIONS:

TOTAL LAYER PAVEMENT THICKNESS	LAYERS	NOMINAL MAXIMUM SIZE GRADATION	PERFORMANCE GRADE
5.5"	2" UPPER LAYER 2 1-3/4" LOWER LAYERS	12.5 MM 12.5 MM	PG64-28 PG64-22
2.0"	2" OVERLAY	12.5MM	PG64-22

19. SIDE ROAD SEGMENTS WITHIN PROJECT LIMITS SHALL MATCH WORK IN SUMMIT AVENUE. IN RESURFACING SECTION, MILLING SHALL EXTEND OUT TO PROJECT LIMITS ON SIDE ROADS. IN RECONSTRUCTION SECTION, FULL RECONSTRUCTION SHALL EXTEND OUT TO PROJECT LIMITS ON SIDE ROADS.

STANDARD ABBREVIATIONS

AEW	APRON END WALL
AGG	AGGREGATE
BAD	BASE AGGREGATE DENSE
BM	BENCH MARK
C&G	CURB AND GUTTER
C/L	CENTER OR CONSTRUCTION LINE
CMCP	CULVERT PIPE CORRUGATED METAL
CONC	CONCRETE
CP	CULVERT PIPE
CPRC	CULVERT PIPE REINFORCED CONCRETE
CSD	CONCRETE SURFACE DRAIN
CY	CUBIC YARD
D	DEGREE OF CURVE
Δ	DELTA
DISCH	DISCHARGE
EB	EAST BOUND
FE	FIELD ENTRANCE
FL	FLOW LINE
FLAG	FLANGE LINE
HMA	HOT MIX ASPHALT
INV	INVERT
L	LENGTH OF CURVE
LC	LATERAL CLEARANCE
LHF	LEFT HAND FORWARD
LT	LEFT
MIN	MINIMUM
M/L	MATCHLINE
NB	NORTHBOUND
NC	NORMAL CROWN
PAVT	PAVEMENT
PC	POINT OF CURVE
PCC	POINT OF COMPOUND CURVE
PE	PRIVATE ENTRANCE
PI	POINT OF INTERSECTION
PLE	PERMANENT LIMITED EASEMENT
PT	POINT OF TANGENT
R	RADIUS OF CURVE
R/L	REFERENCE LINE
R/W	RIGHT OF WAY
RC	REVERSE CROWN
RCAEW	APRON ENDWALL FOR CULVERT PIPE REINFORCE CONCRETE
REQD	REQUIRED
RHF	RIGHT HAND FORWARD
RO	RUN OFF LENGTH
RRSP	RAILROAD SPIKE
RT	RIGHT
SALV	SALVAGED
SB	SOUTHBOUND
SDD	STANDARD DETAIL DRAWING
SE	SUPER ELEVATION
SF	SQUARE FOOT
STA	STATION
SY	SQUARE YARD
T	TANGENT LENGTH
TLE	TEMPORARY LIMITED EASEMENT
VCL	VERTICAL CURVE LENGTH
VPC	POINT OF VERTICAL CURVE
VPI	POINT OF VERTICAL INTERSECTION
VPT	POINT OF VERTICAL TANGENT
WB	WEST BOUND

2

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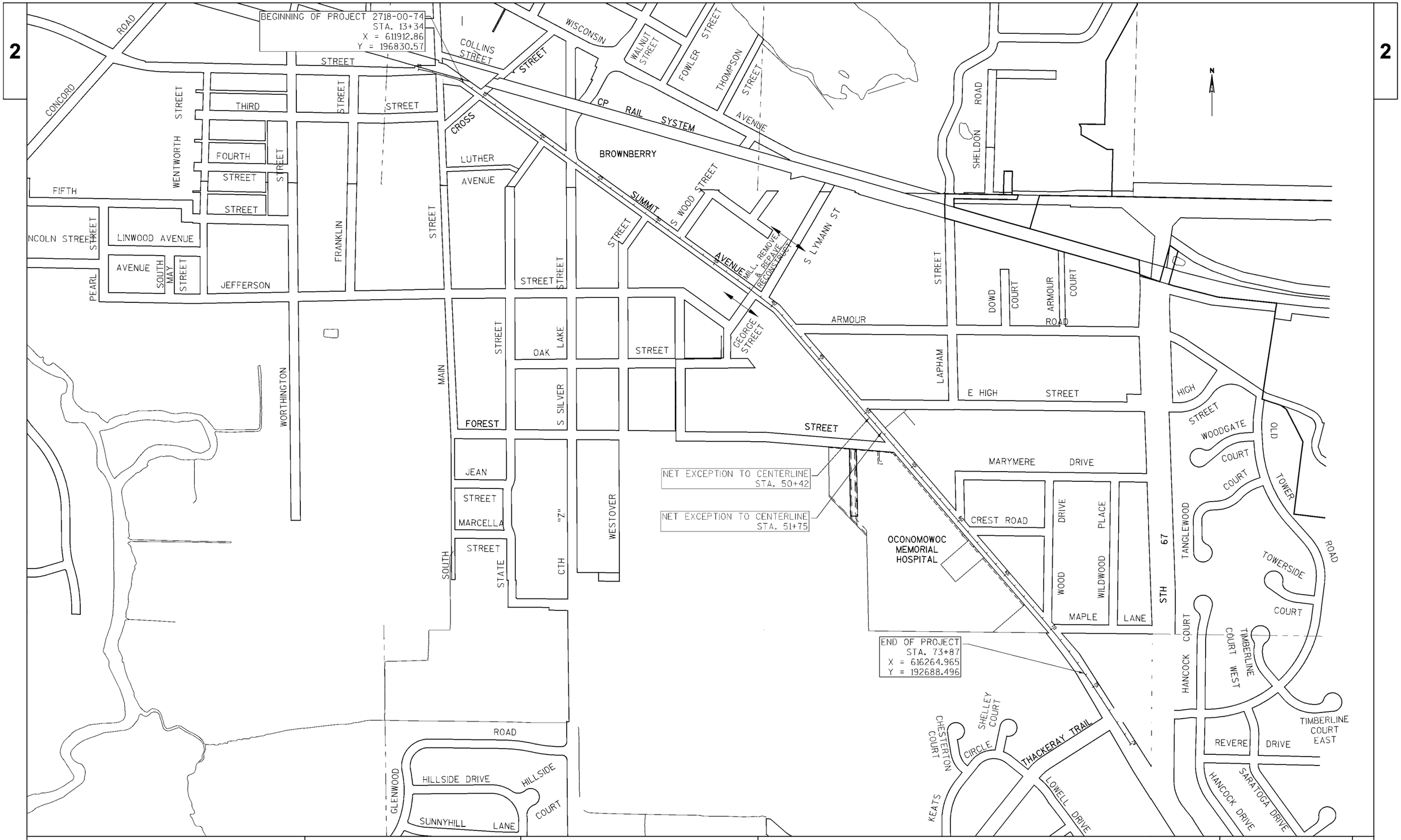
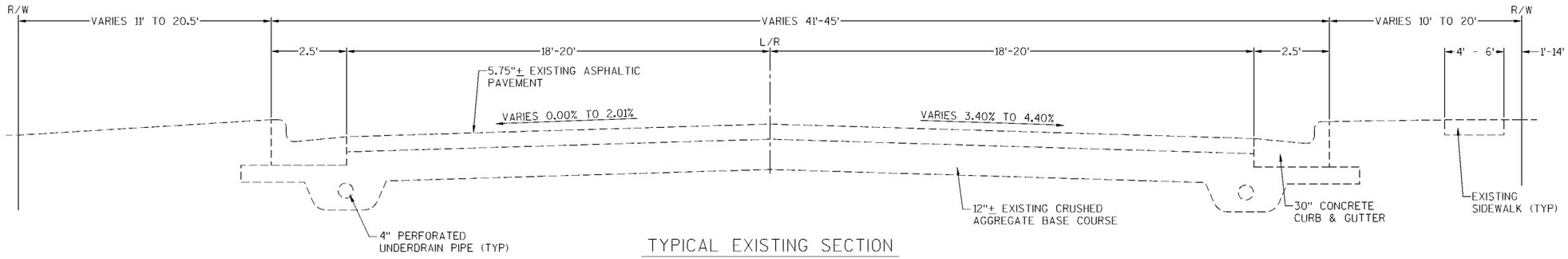
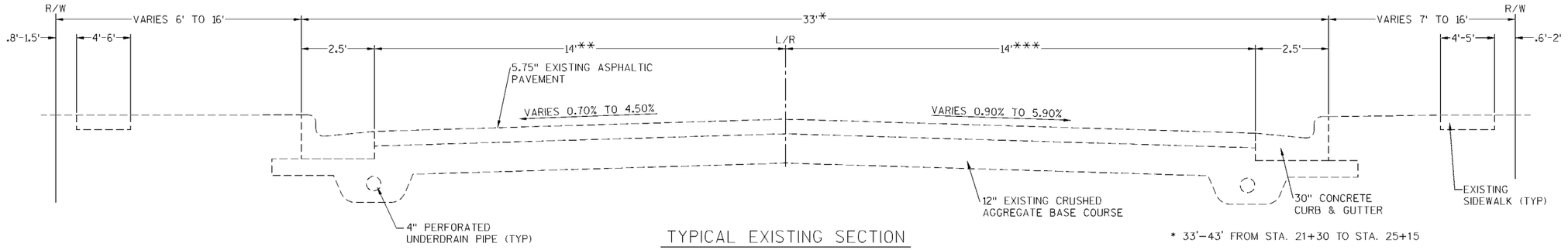


PROJECT NO: 2718-00-74	SUMMIT AVENUE	COUNTY: WAUKESHA	PROJECT OVERVIEW	SHEET 4	E



TYPICAL EXISTING SECTION

SUMMIT AVENUE
STA 13+34 TO STA 14+75



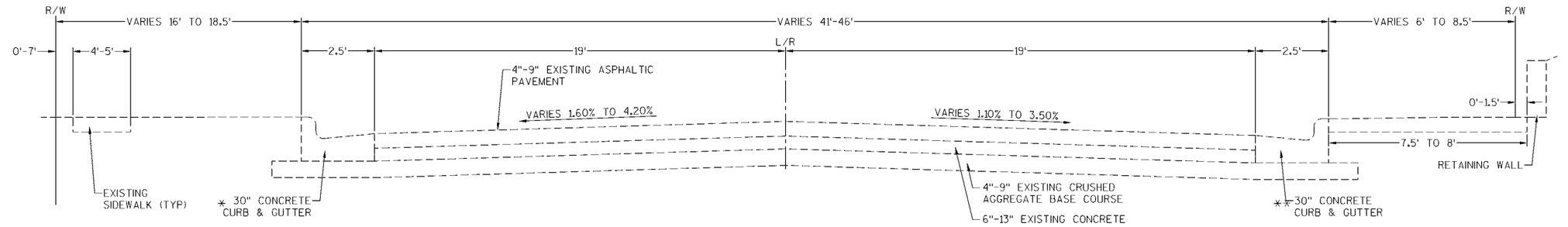
TYPICAL EXISTING SECTION

SUMMIT AVENUE
STA 14+75 TO STA 38+20

* 33'–43' FROM STA. 21+30 TO STA. 25+15

** 14'–24' FROM STA. 21+80 TO STA. 25+15

*** 14'–22' FROM STA. 21+30 TO STA. 23+50



TYPICAL EXISTING SECTION

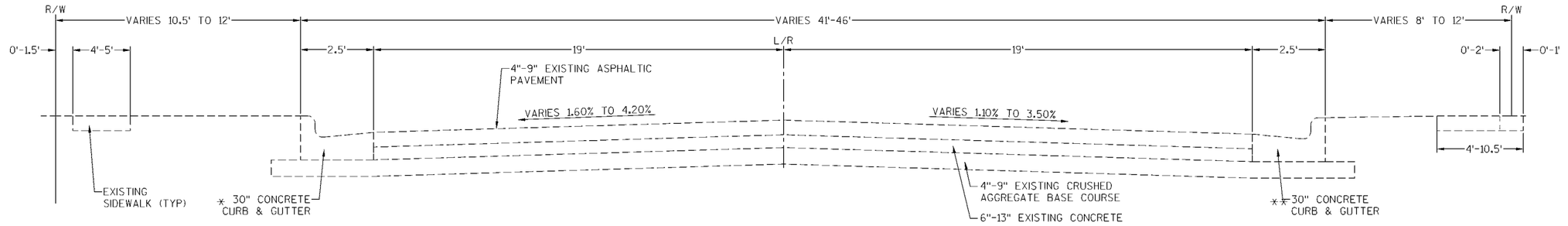
SUMMIT AVENUE
STA 38+20 TO STA 42+50

* 18" CONCRETE CURB & GUTTER STA. 49+50 – STA. 50+42 LT

** 18"-24" CONCRETE CURB & GUTTER STA. 46+00 – STA. 48+00 RT

PROJECT NO: 2718-00-74	SUMMIT AVENUE	COUNTY: WAUKESHA	TYPICAL SECTIONS	SHEET 5	E

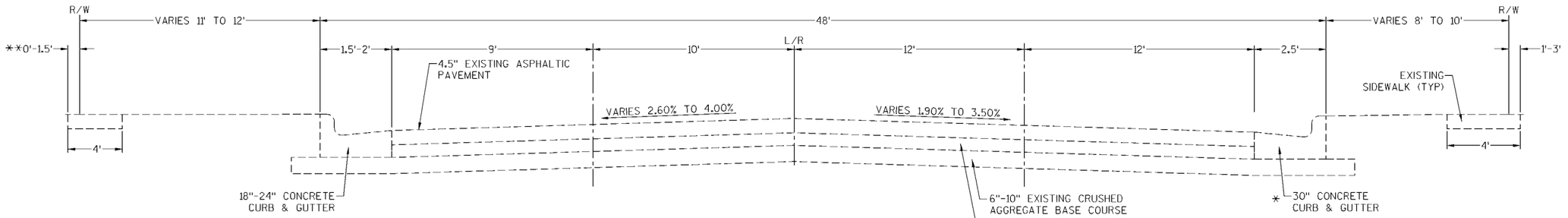
2



TYPICAL EXISTING SECTION

SUMMIT AVENUE
STA 42+50 TO STA 50+42

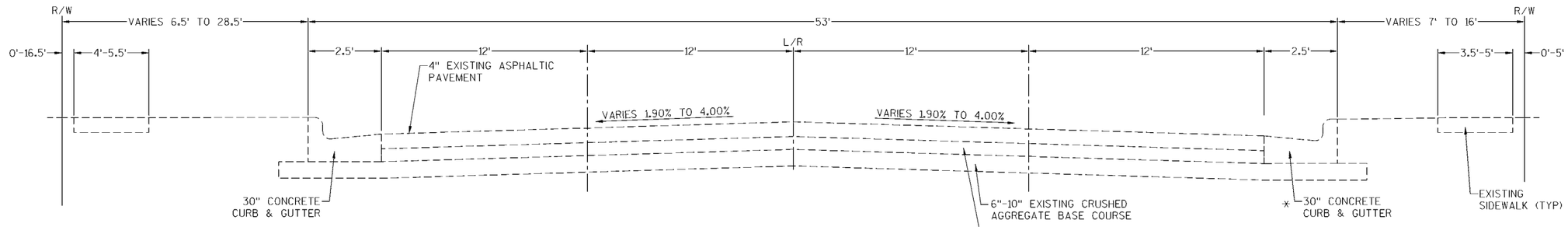
* 18" CONCRETE CURB & GUTTER STA. 49+50 - STA. 50+42 LT
** 18"-24" CONCRETE CURB & GUTTER STA. 46+00 - STA. 48+00 RT



TYPICAL EXISTING SECTION

SUMMIT AVENUE
STA 51+75 TO STA 60+00

* 18"-24" CONCRETE CURB & GUTTER STA. 58+50 - STA. 59+50 RT
** SIDEWALK EXTENDS ONTO PRIVATE PROPERTY UP TO 12" FROM STA. 61+51 - STA. 69+00



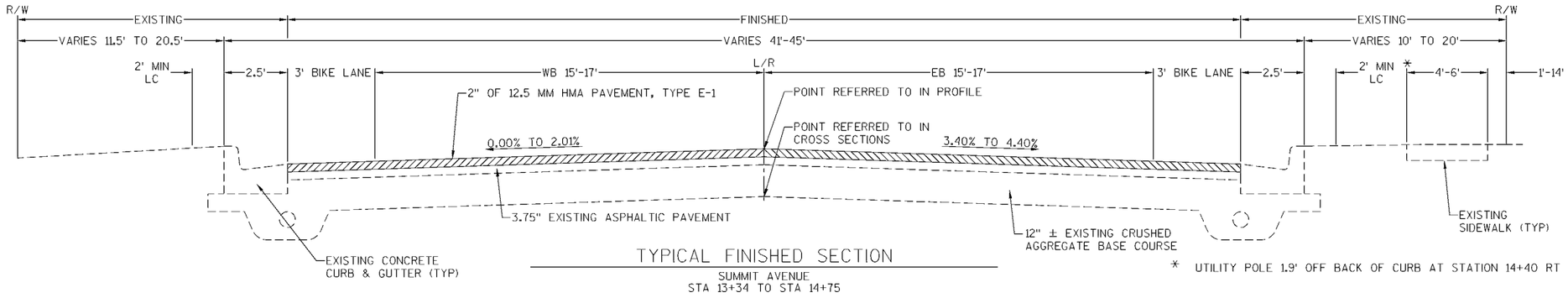
TYPICAL EXISTING SECTION

SUMMIT AVENUE
STA 60+00 TO STA 73+87

* 18"-24" CONCRETE CURB & GUTTER STA. 59+50 - STA. 61+25 RT

PROJECT NO: 2718-00-74	SUMMIT AVENUE	COUNTY: WAUKESHA	TYPICAL SECTIONS	SHEET 6	E

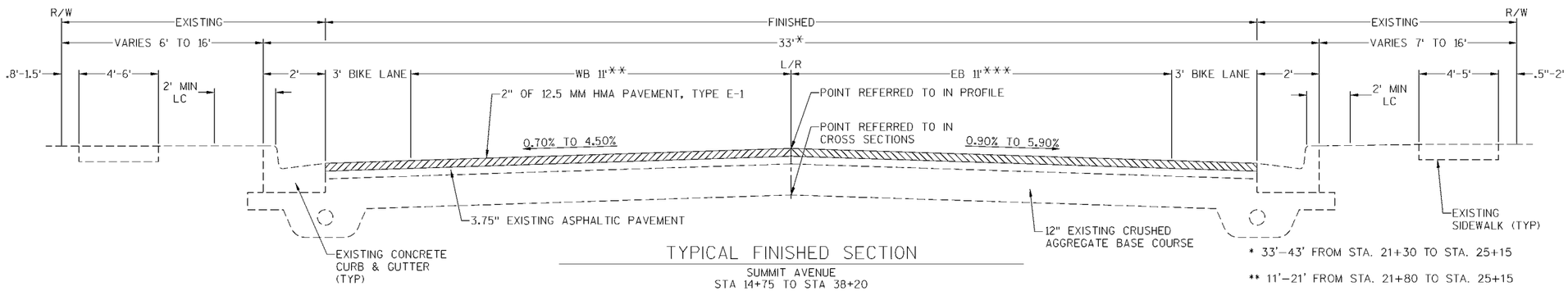
2



TYPICAL FINISHED SECTION

SUMMIT AVENUE
STA 13+34 TO STA 14+75

* UTILITY POLE 1.9' OFF BACK OF CURB AT STATION 14+40 RT



TYPICAL FINISHED SECTION

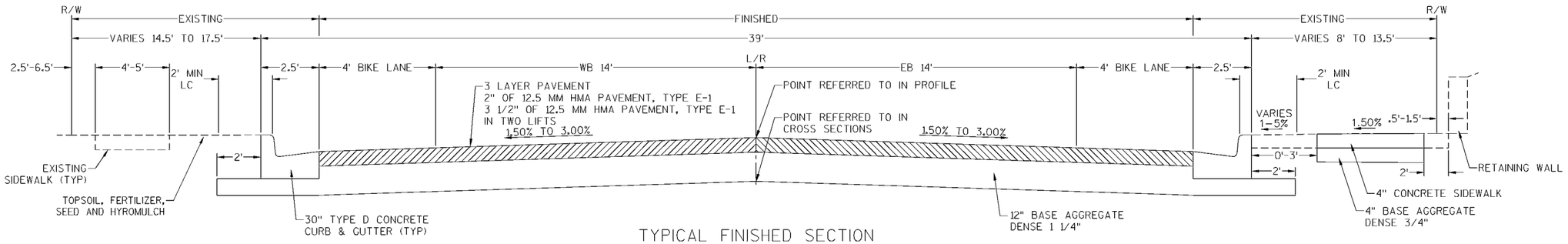
SUMMIT AVENUE
STA 14+75 TO STA 38+20

* 33'-43' FROM STA. 21+30 TO STA. 25+15

** 11'-21' FROM STA. 21+80 TO STA. 25+15

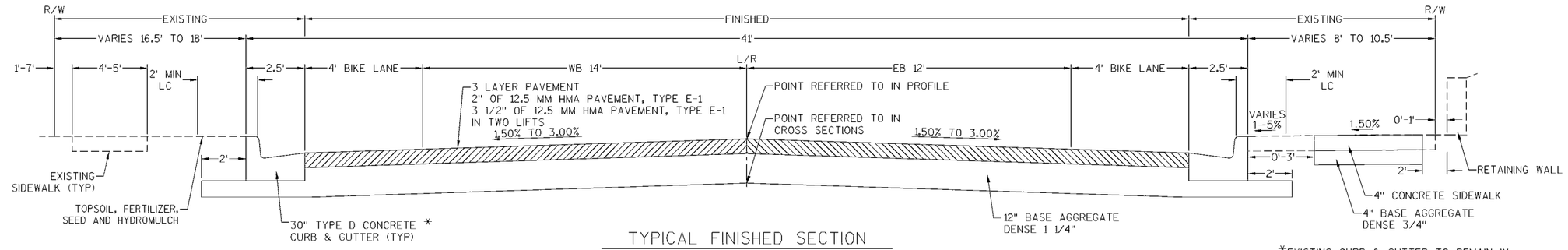
*** 11'-19' FROM STA. 21+30 TO STA. 23+50

NOTES:
1. ADJUST MH FRAMES AND VALVE BOXES TO 1/2-INCH LOWER THAN FINISH GRADE. (SEE DETAIL FOR MANHOLES)
2. SLOPES AT INTERSECTIONS VARY FROM TYPICAL RESURFACING SECTION.



TYPICAL FINISHED SECTION

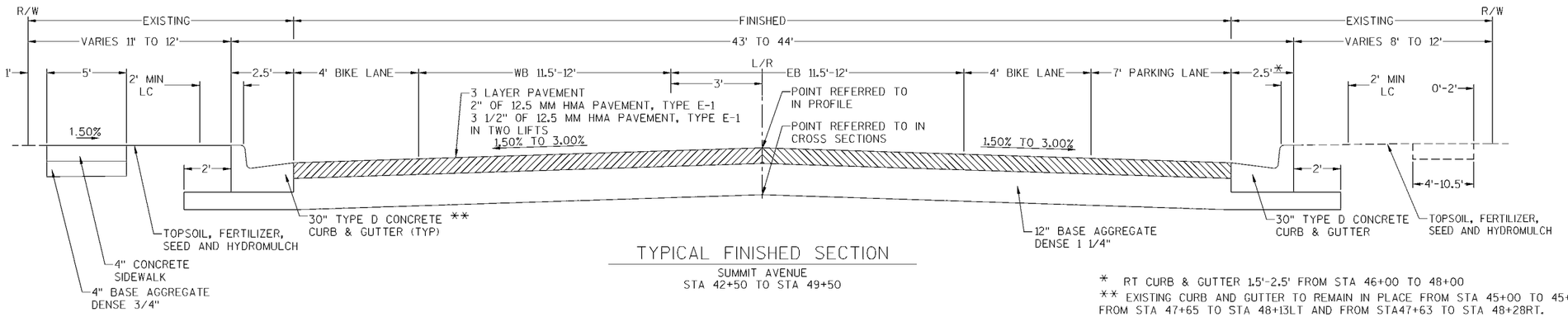
SUMMIT AVENUE
STA 38+20 TO STA 40+47



TYPICAL FINISHED SECTION

SUMMIT AVENUE
STA 40+47 TO STA 42+50

*EXISTING CURB & GUTTER TO REMAIN IN PLACE FROM STA 40+50 TO STA 41+05LT AND FROM STA 41+12 TO STA 41+50LT.



TYPICAL FINISHED SECTION

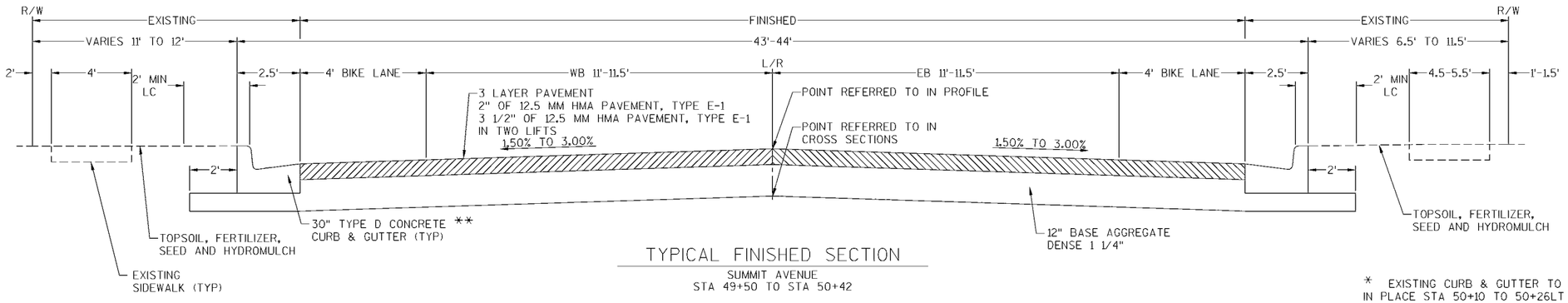
SUMMIT AVENUE
STA 42+50 TO STA 49+50

* RT CURB & GUTTER 1.5'-2.5' FROM STA 46+00 TO 48+00

** EXISTING CURB AND GUTTER TO REMAIN IN PLACE FROM STA 45+00 TO 45+65LT, FROM STA 47+65 TO STA 48+13LT AND FROM STA47+63 TO STA 48+28RT.

NOTES:
1. ADJUST MH FRAMES AND VALVE BOXES TO 1/2-INCH LOWER THAN FINISH GRADE. (SEE DETAIL FOR MANHOLE)
2. SLOPES AT INTERSECTIONS VARY FROM TYPICAL RESURFACING SECTION.

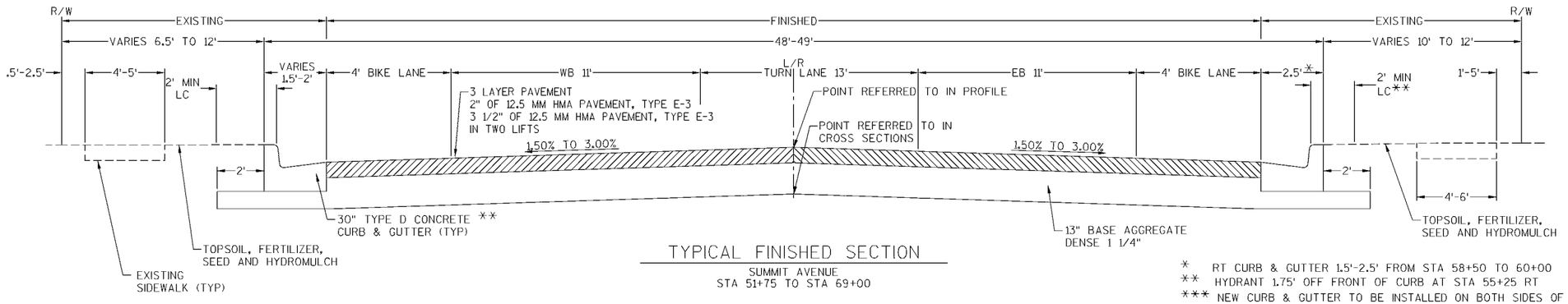
PROJECT NO: 2718-00-74	SUMMIT AVENUE	COUNTY: WAUKESHA	TYPICAL SECTIONS	SHEET 8	E



TYPICAL FINISHED SECTION

SUMMIT AVENUE
STA 49+50 TO STA 50+42

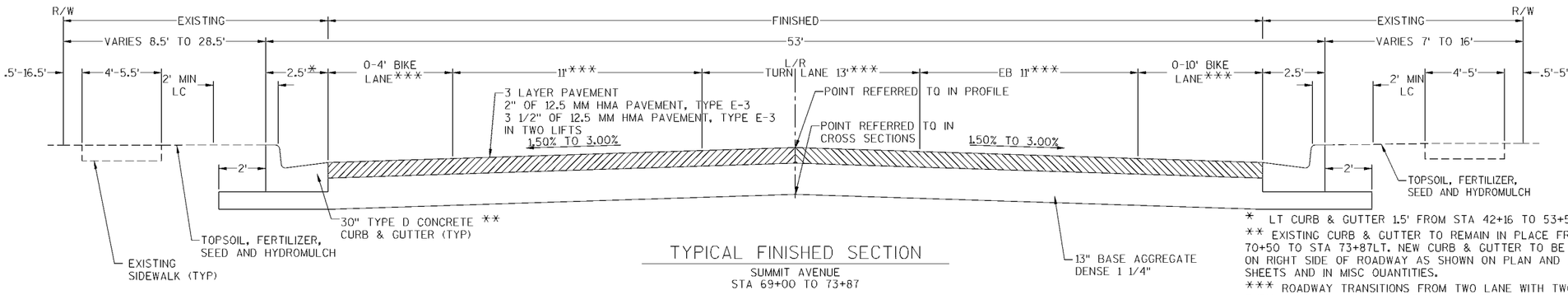
* EXISTING CURB & GUTTER TO REMAIN IN PLACE STA 50+10 TO 50+26LT



TYPICAL FINISHED SECTION

SUMMIT AVENUE
STA 51+75 TO STA 69+00

* RT CURB & GUTTER 1.5'-2.5' FROM STA 58+50 TO 60+00
** HYDRANT 1.75' OFF FRONT OF CURB AT STA 55+25 RT
*** NEW CURB & GUTTER TO BE INSTALLED ON BOTH SIDES OF ROADWAY ASH SHOWN ON PLAN AND PROFILE SHEETS AND IN MISC QUANTITIES.



TYPICAL FINISHED SECTION

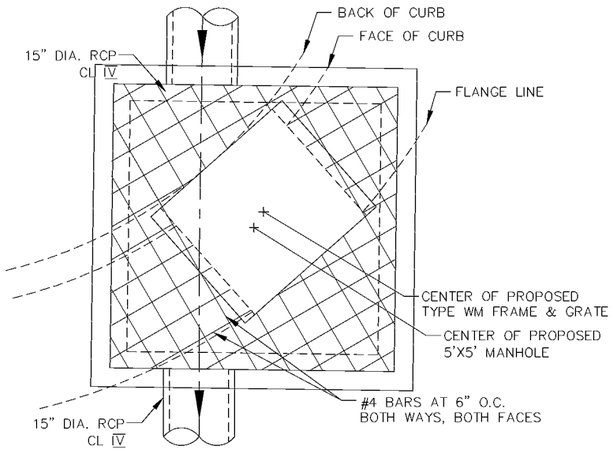
SUMMIT AVENUE
STA 69+00 TO 73+87

* LT CURB & GUTTER 1.5' FROM STA 42+16 TO 53+55
** EXISTING CURB & GUTTER TO REMAIN IN PLACE FROM STA 70+50 TO STA 73+87LT. NEW CURB & GUTTER TO BE INSTALLED ON RIGHT SIDE OF ROADWAY AS SHOWN ON PLAN AND PROFILE SHEETS AND IN MISC QUANTITIES.
*** ROADWAY TRANSITIONS FROM TWO LANE WITH TWO WAY LEFT TURN LANE AT STA 69+00 TO 4-LANE ROADWAY @ STA 73+87

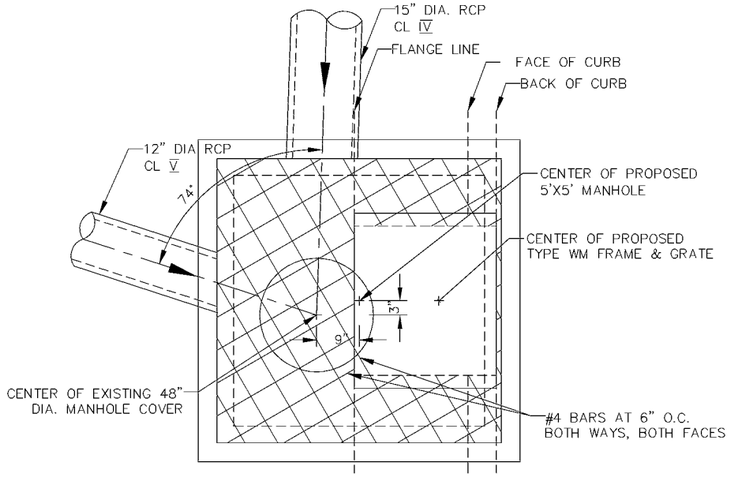
NOTES:
1. ADJUST MH FRAMES AND VALVE BOXES TO 1/2-INCH LOWER THAN FINISH GRADE. (SEE DETAIL FOR MANHOLE)
2. SLOPES AT INTERSECTIONS VARY FROM TYPICAL RESURFACING SECTION.

PROJECT NO: 2718-00-74	SUMMIT AVENUE	COUNTY: WAUKESHA	TYPICAL SECTIONS	SHEET 9	E

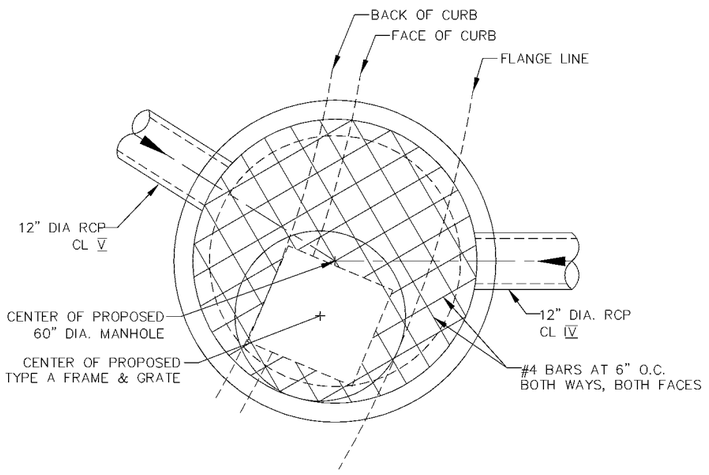
2



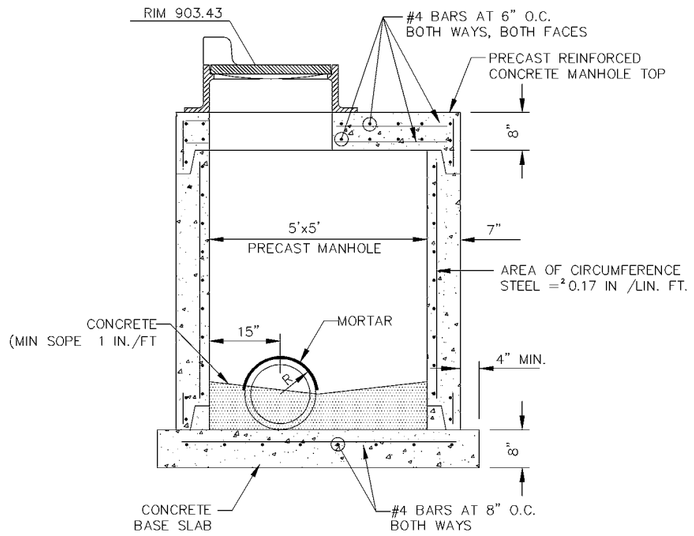
PLAN VIEW



PLAN VIEW



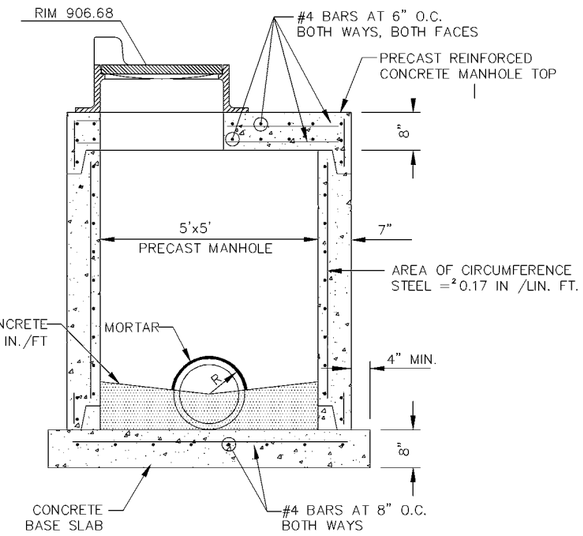
PLAN VIEW



SECTION

PRECAST STORM MANHOLE 4.0

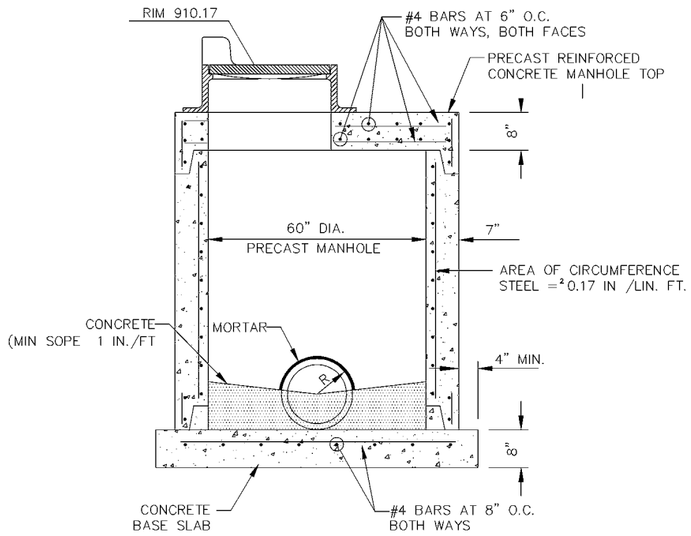
NO SCALE



SECTION

PRECAST STORM MANHOLE 5.0

NO SCALE



SECTION

PRECAST STORM MANHOLE 6.0

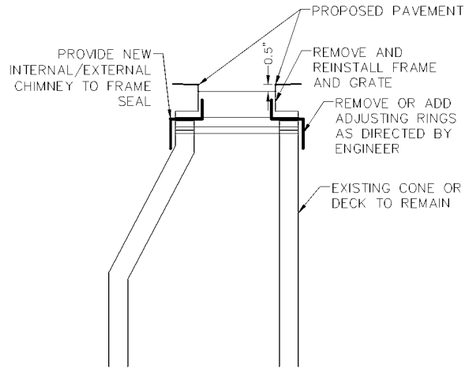
NO SCALE

2

Storm Sewer Catch Basins and Inlets				
			Existing	Proposed
Station	Location	Offset	Rim Elev	Rim Elev
43+01	Summit Ave	19 RT	874.17	874.17
43+19	Summit Ave	25 LT	874.03	874.03
43+22	Summit Ave	25 LT	874.03	874.03
45+48	Summit Ave	20 RT	875.06	875.06
47+25	Summit Ave	24 LT	875.28	875.28
47+33	Summit Ave	16 RT	875.32	875.32
49+90	Summit Ave	16 RT	876.33	876.54
50+02	Summit Ave	25 LT	876.33	876.33
56+48	Summit Ave	23 LT	869.12	869.12
63+37	Summit Ave	23.5 RT	908.69	908.56
69+51	Summit Ave	25 RT	907.75	907.58
73+09	Summit Ave	27 RT	899.47	899.49

Storm Sewer Manhole (for Reference Only)				
All manholes shall be adjusted to 1/2-inch below finished grade of surface course				
			Existing	Proposed
Station	Location	Offset	Rim Elev	Rim Elev
42+96	Summit Ave	20 LT	874.31	874.43
43+02	Summit Ave	33 LT	874.50	874.26
47+26	Summit Ave	20 LT	875.59	875.56
50+00	Summit Ave	19 LT	876.34	876.21
52+00	Summit Ave	18 LT	879.42	879.18
53+41	Summit Ave	19 LT	882.47	882.36
56+41	Summit Ave	19 LT	889.29	889.19
56+50	Summit Ave	18 RT	889.42	889.63
59+42	Summit Ave	17 LT	901.52	901.16
60+33	Summit Ave	28 LT	904.22	904.80
60+93	Summit Ave	28 LT	905.70	905.65
69+53	Summit Ave	9 RT	908.05	908.26
73+11	Summit Ave	23 RT	899.58	899.75

Sanitary and Electric Manholes (Reference Only)				
All manholes shall be adjusted to 1/2-inch below finished grade of surface course				
			Existing	Proposed
Station	Location	Offset	Rim Elev	Rim Elev
38+51	Summit Ave	1 RT	866.80	866.94
38+58	Summit Ave	1 RT	866.96	867.11
38+60	Summit Ave	27 RT	866.90	867.15
39+14	Summit Ave	0	869.24	869.31
40+40	Summit Ave	6 LT	874.38	874.59
41+94	Summit Ave	10 RT	875.56	875.77
42+25	Summit Ave	4 LT	875.60	875.60
42+36	Summit Ave	18 LT	875.33	875.04
42+70	Summit Ave	56 LT	873.67	873.36
45+74	Summit Ave	4 LT	875.53	875.51
49+25	Summit Ave	5 LT	876.63	876.36
49+53	Summit Ave	40 LT	876.34	875.82
53+25	Summit Ave	4 RT	882.78	882.58
56+25	Summit Ave	5 LT	889.29	889.19
57+56	Summit Ave	4 LT	894.11	893.90
59+69	Summit Ave	5 LT	902.75	902.61
60+10	Summit Ave	24 RT	903.32	903.28
61+51	Summit Ave	19 LT	906.82	906.66
63+56	Summit Ave	13 RT	909.51	909.06
67+08	Summit Ave	12 RT	911.10	910.93
69+20	Summit Ave	32.5 LT	909.19	908.76
70+24	Summit Ave	35 LT	906.53	906.28
70+29	Summit Ave	12 RT	906.50	906.32

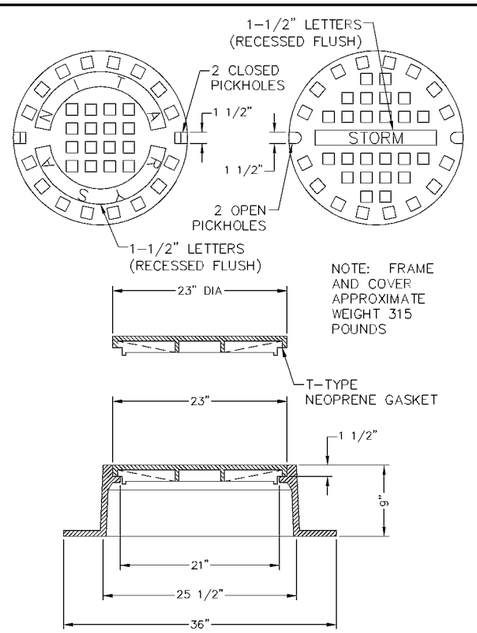


NOTES:
1. NO WOOD SHIMS FOR ANY REASON.
2. NO TUCK POINTING FOR ANY REASON.
3. CONCRETE ADJUSTING RINGS TO BE USED.
4. BACK PLASTER INTERIOR SURFACE WHEN ADJUSTMENT IS COMPLETE.
5. REMOVE ADJUSTING RINGS AS NEEDED.

ADJUSTING SANITARY MANHOLE COVER

NO SCALE

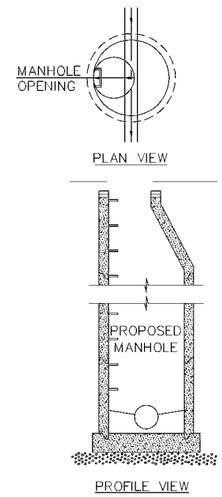
CGDT-EXIST MH ADJUST 1



SANITARY/STORM MANHOLE COVER AND ASSEMBLY NEENAH (R-1550 HEAVY)

NO SCALE

Sanitary-Storm MH cover 1

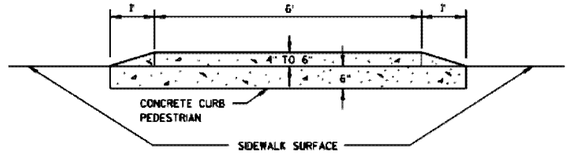


SANITARY SEWER MANHOLE TYPICAL OPENING OFFSET

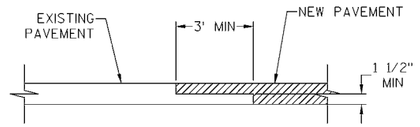
NO SCALE

Sanitary MH typ opening offset 1

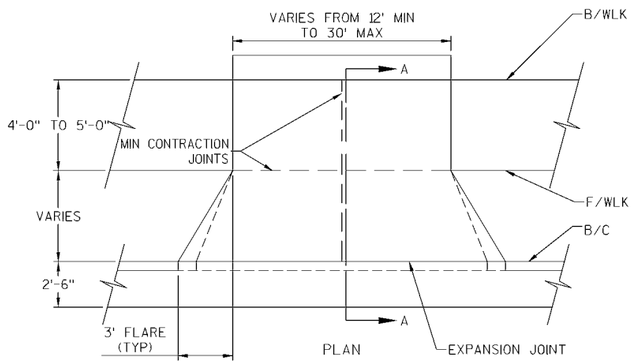
2

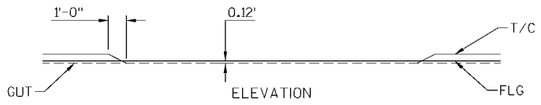


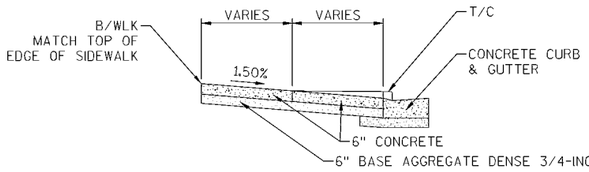
CONCRETE CURB PEDESTRIAN DETAIL
CURB ELEVATION VIEW



MILLED BUTT JOINT DETAIL





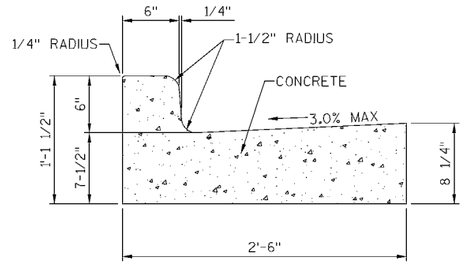


SECTION A-A

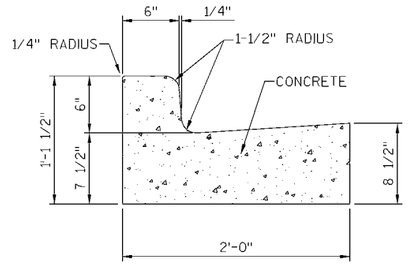
NOTE: CONTRACTION JOINTS IN WALK SHALL ALIGN WITH CONTRACTION JOINTS IN APPROACH.

IF CONCRETE DRIVEWAY REPLACEMENT EXTENDS BEYOND SIDEWALK, APRON, SIDEWALK AND APPROACH MUST BE POURED AS ONE SLAB

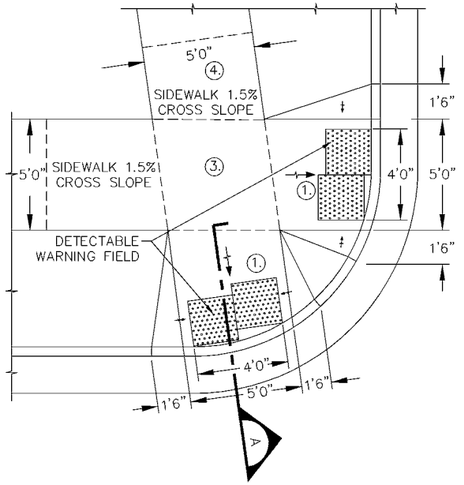
DEPRESSED 6" CONCRETE
DRIVE APPROACH

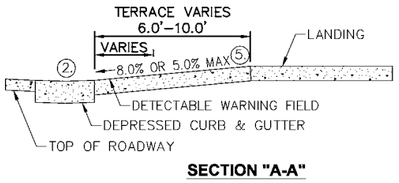


30" VERTICAL FACE TYPE D
SHALLOW PAN CURB AND GUTTER



24" VERTICAL FACE
TYPE D CURB AND GUTTER





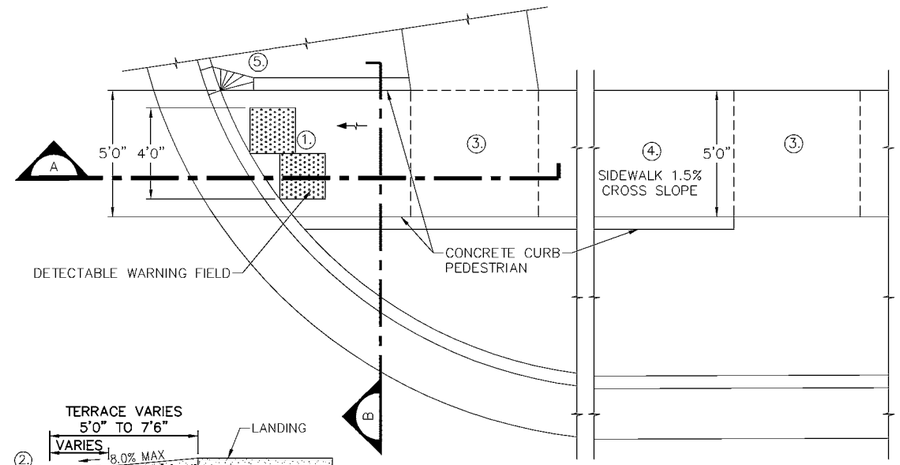
SECTION "A-A"

CURB RAMP - TYPE A

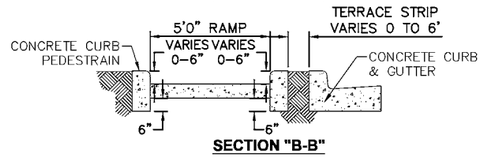
PV-RAMP-09 3 NO SCALE

GENERAL NOTES

1. DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.
2. GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. PROVIDE DRAINAGE AWAY FROM CURB RAMP AT GUTTER FLAG INTERFACE.
3. 1.5% TYPICAL LANDING CROSS SLOPE, SHALL NOT EXCEED 2.0% IN ANY DIRECTION.
4. 1.5% TYPICAL SIDEWALK CROSS SLOPE, SHALL NOT EXCEED 2.0% WITHOUT PRIOR APPROVAL FROM ENGINEER.
5. MAX RUNNING SLOPE FOR RAMP IS BASED ON CURB FLANGE CROSS SLOPE. FOR CURB FLANGE CROSS SLOPE OF 3.0%, RAMP RUNNING SLOPE SHALL NOT EXCEED 8.0%. FOR CURB FLANGE CROSS SLOPE OF 6.0% RAMP RUNNING SLOPE SHALL NOT EXCEED 5.0%.



SECTION "A-A"



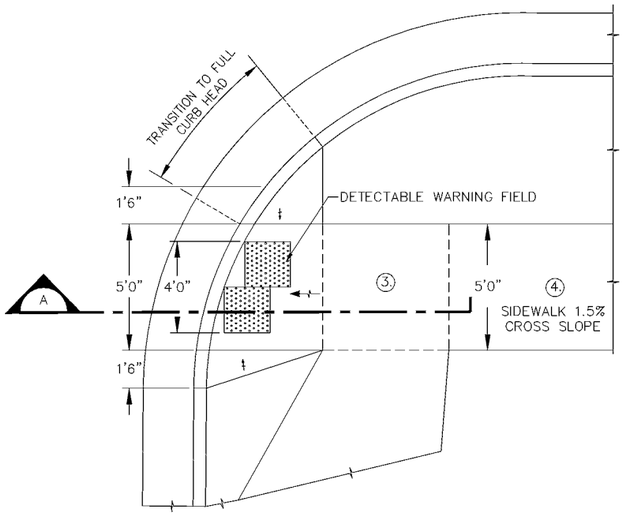
SECTION "B-B"

CURB RAMP - TYPE B

PV-RAMP-09 3 NO SCALE

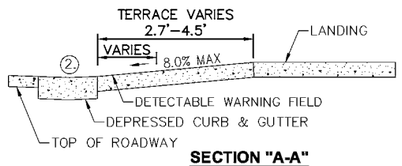
GENERAL NOTES

1. DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.
2. GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. PROVIDE DRAINAGE AWAY FROM CURB RAMP AT GUTTER FLAG INTERFACE.
3. 1.5% TYPICAL LANDING CROSS SLOPE SHALL NOT EXCEED 2.0% IN ANY DIRECTION.
4. 1.5% TYPICAL SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2.0% WITHOUT PRIOR APPROVAL FROM ENGINEER.
5. INSTALL TRANSITION NOSE. (INCIDENTAL TO OTHER PAY ITEMS) DO NOT MARK TRANSITION NOSE.



GENERAL NOTES

① DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.
② GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. PROVIDE DRAINAGE AWAY FROM CURB RAMP AT GUTTER FLAG INTERFACE.
③ 1.5% TYPICAL LANDING CROSS SLOPE SHALL NOT EXCEED 2.0% IN ANY DIRECTION.
④ 1.5% TYPICAL SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2.0% WITHOUT PRIOR APPROVAL FROM ENGINEER.

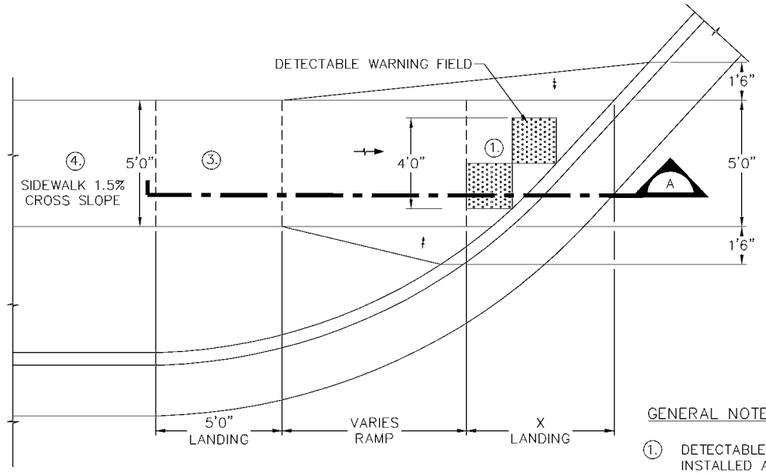


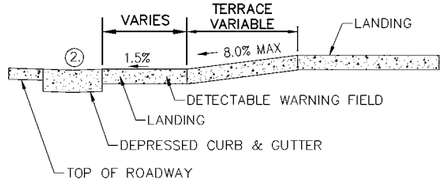
SECTION "A-A"

CURB RAMP - TYPE C

NO SCALE

PV-RAMP-C 3





SECTION "A-A"

GENERAL NOTES

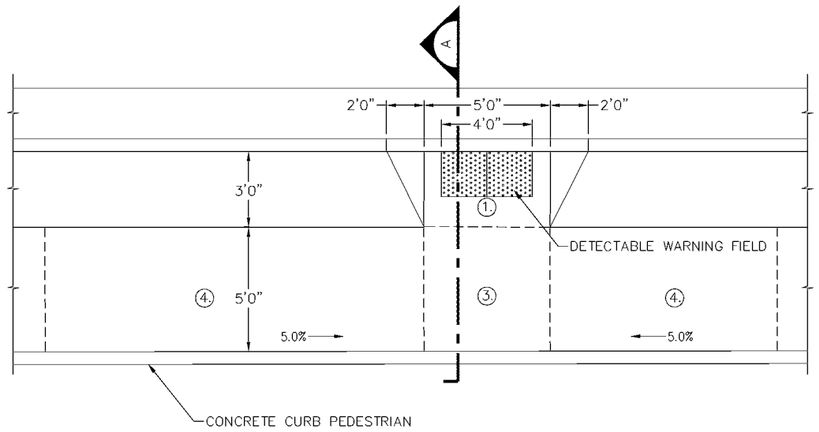
① DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.
② GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. PROVIDE DRAINAGE AWAY FROM CURB RAMP AT GUTTER FLAG INTERFACE.
③ 1.5% TYPICAL LANDING CROSS SLOPE SHALL NOT EXCEED 2.0% IN ANY DIRECTION.
④ 1.5% TYPICAL SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2.0% WITHOUT PRIOR APPROVAL FROM ENGINEER.

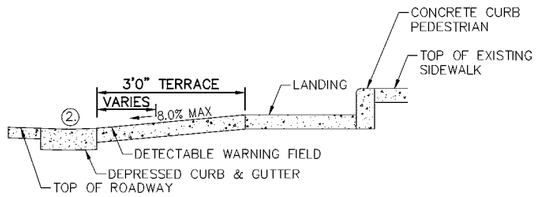
CURB RAMP - TYPE D

NO SCALE

PV-RAMP-09 3

2





SECTION "A-A"

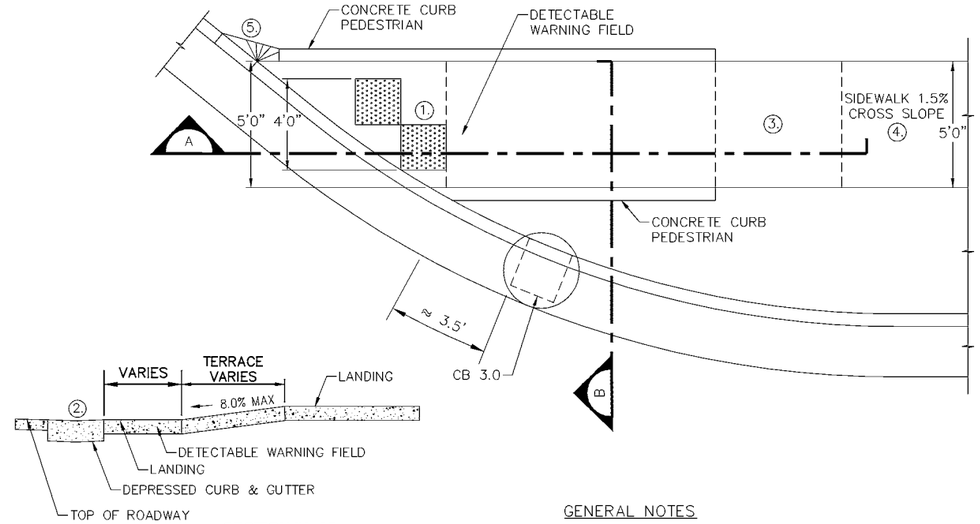
CURB RAMP - TYPE E

PV-RAMP-09 3

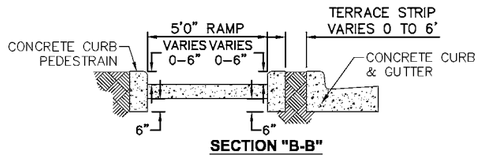
NO SCALE

GENERAL NOTES

1. DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.
2. GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. PROVIDE DRAINAGE AWAY FROM CURB RAMP AT GUTTER FLAG INTERFACE.
3. 1.5% TYPICAL LANDING CROSS SLOPE SHALL NOT EXCEED 2.0% IN ANY DIRECTION.
4. 1.5% TYPICAL SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2.0% WITHOUT PRIOR APPROVAL FROM ENGINEER.



SECTION "A-A"



SECTION "B-B"

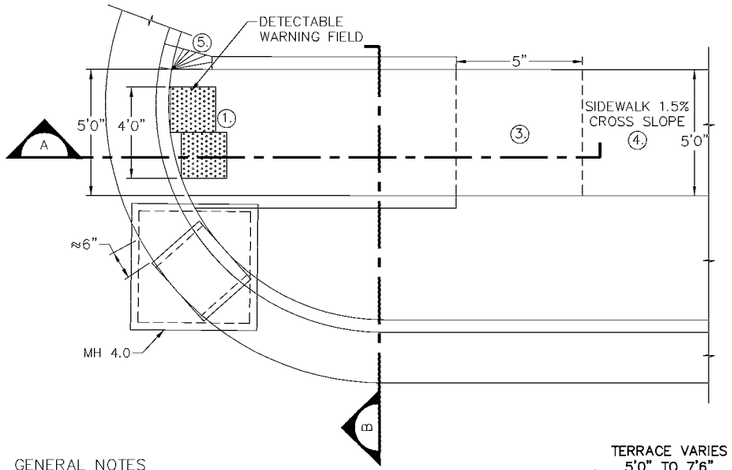
CURB RAMP - TYPE F

PV-RAMP-09 3

NO SCALE

GENERAL NOTES

1. DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.
2. GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. PROVIDE DRAINAGE AWAY FROM CURB RAMP AT GUTTER FLAG INTERFACE.
3. 1.5% TYPICAL LANDING CROSS SLOPE SHALL NOT EXCEED 2.0% IN ANY DIRECTION.
4. 1.5% TYPICAL SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2.0% WITHOUT PRIOR APPROVAL FROM ENGINEER.
5. INSTALL TRANSITION NOSE. (INCIDENTAL TO OTHER PAY ITEMS) DO NOT MARK TRANSITION NOSE.

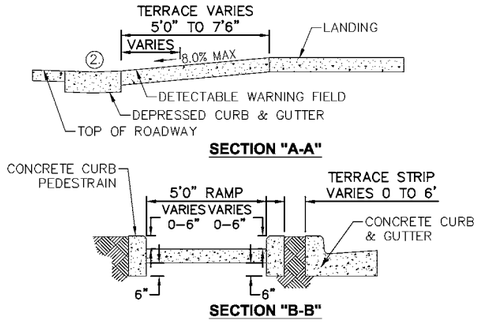


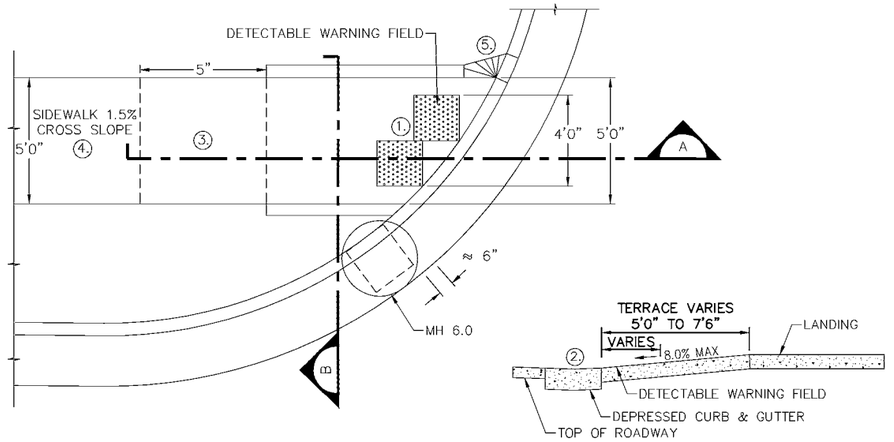
GENERAL NOTES

1. DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.
2. GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. PROVIDE DRAINAGE AWAY FROM CURB RAMP AT GUTTER FLAG INTERFACE.
3. 1.5% TYPICAL LANDING CROSS SLOPE SHALL NOT EXCEED 2.0% IN ANY DIRECTION.
4. 1.5% TYPICAL SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2.0% WITHOUT PRIOR APPROVAL FROM ENGINEER.
5. INSTALL TRANSITION NOSE. (INCIDENTAL TO OTHER PAY ITEMS) DO NOT MARK TRANSITION NOSE.

CURB RAMP - TYPE G NO SCALE

PV-RAMP-09 3





GENERAL NOTES

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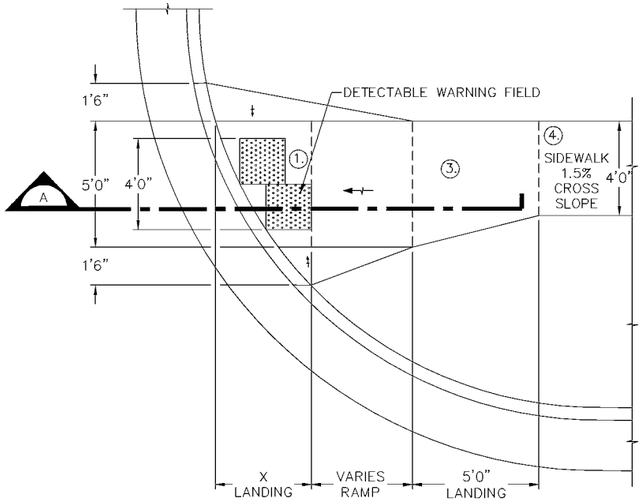
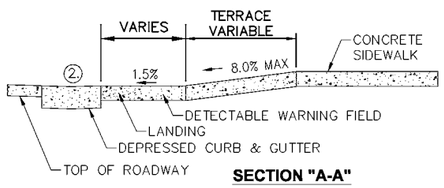
4. 1.5% TYPICAL SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2.0% WITHOUT PRIOR APPROVAL FROM ENGINEER.
5. INSTALL TRANSITION NOSE. (INCIDENTAL TO OTHER PAY ITEMS) DO NOT MARK TRANSITION NOSE.

CURB RAMP - TYPE H NO SCALE

PV-RAMP-09 3

2





SECTION "A-A"

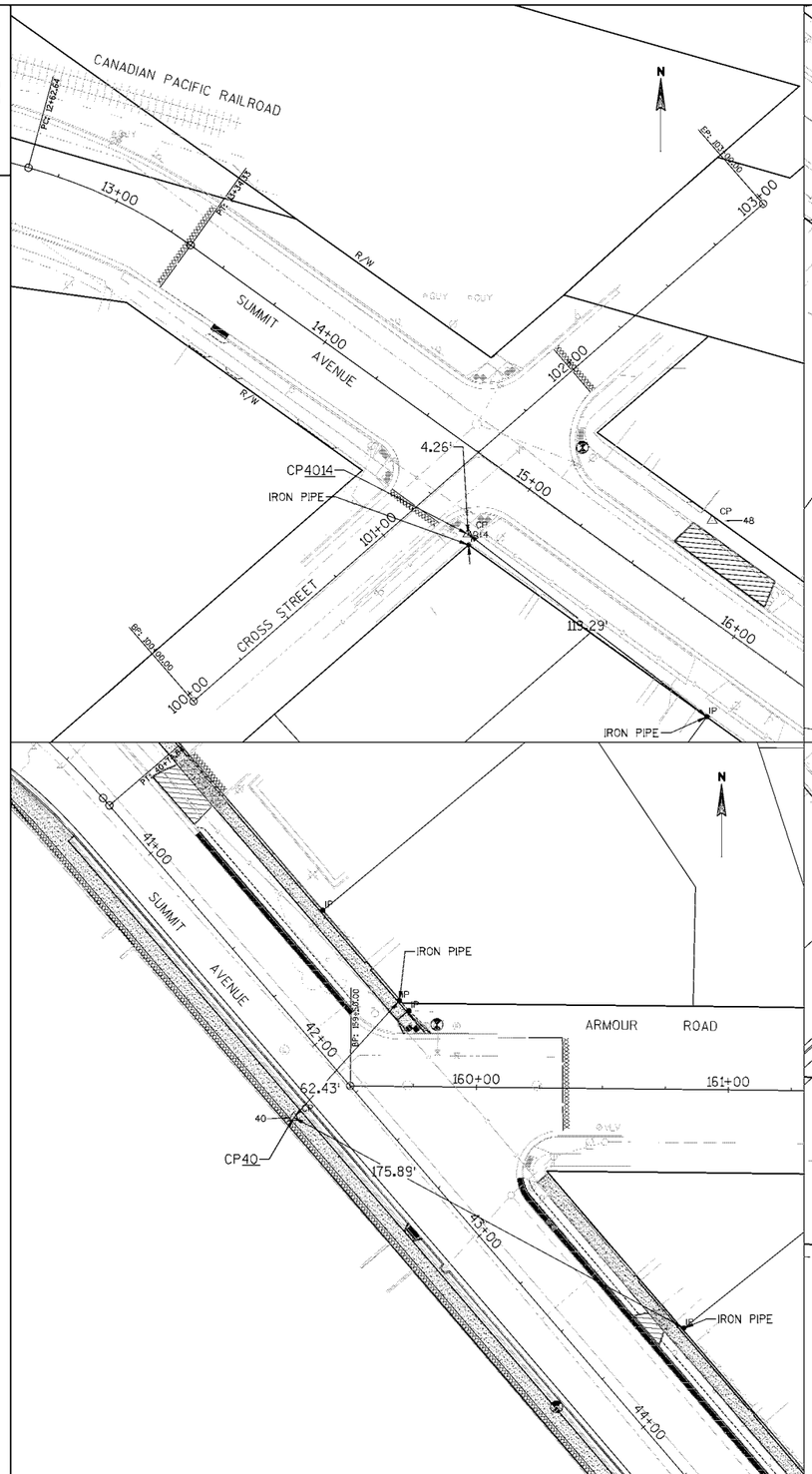
CURB RAMP TYPE - I

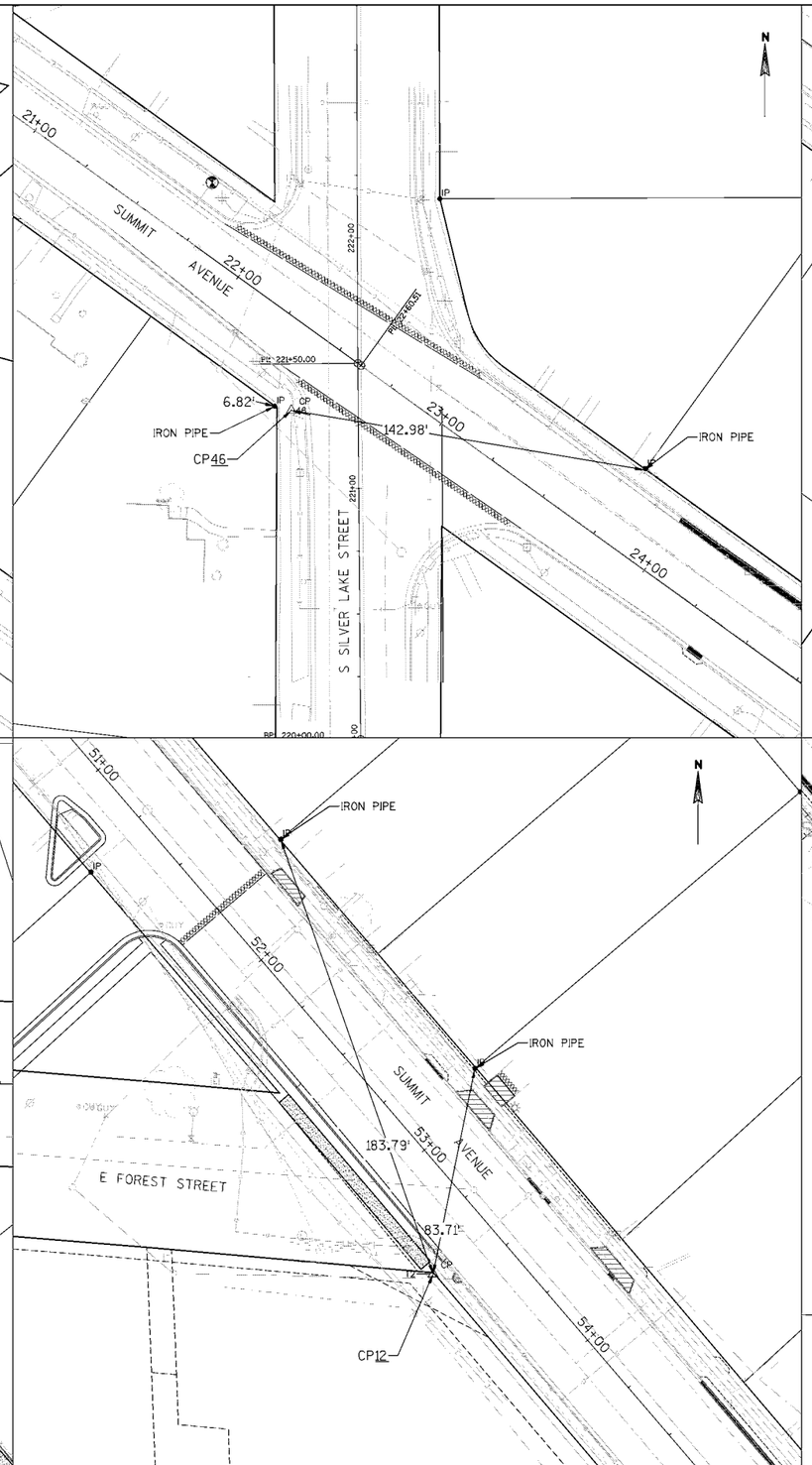
NO SCALE

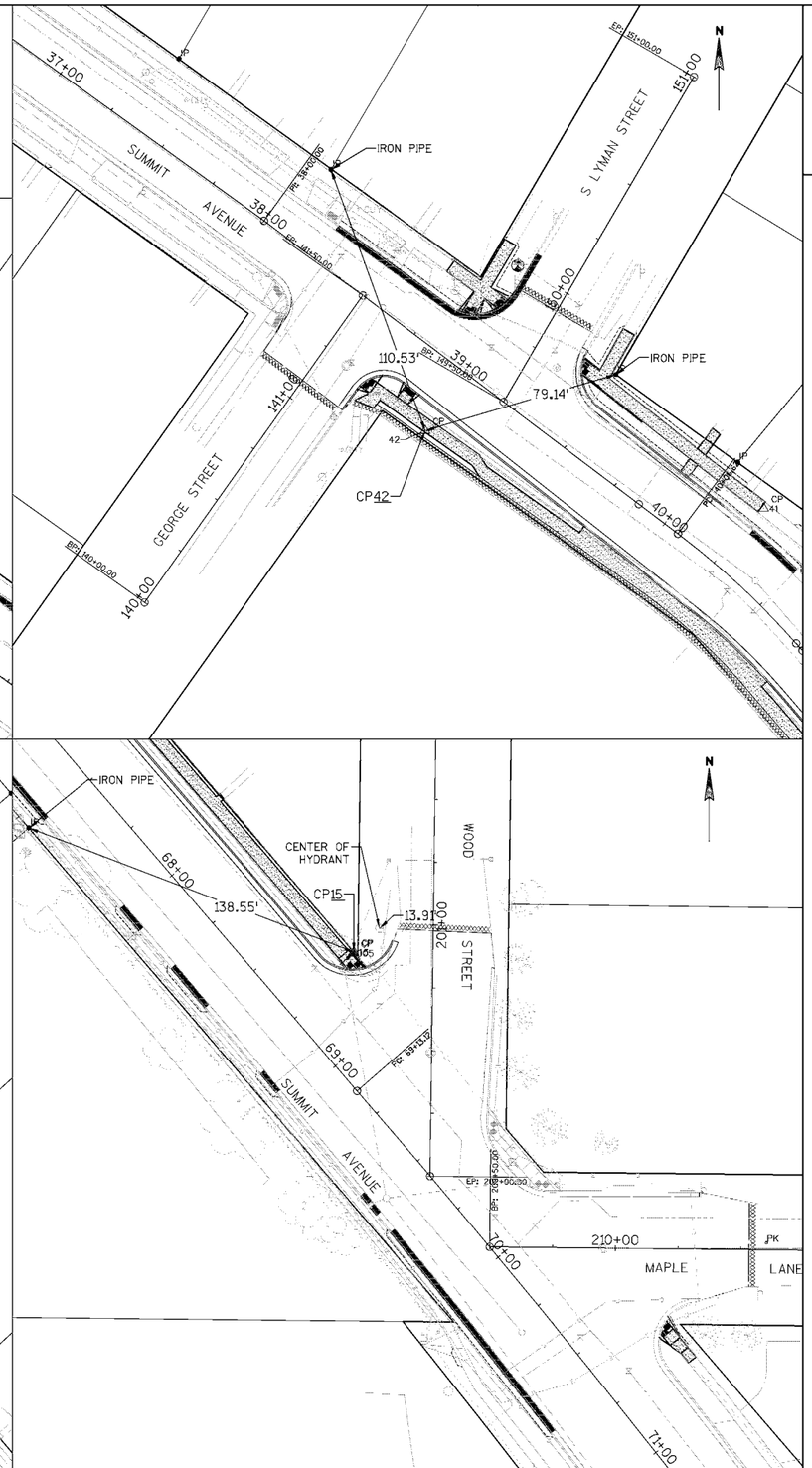
PV-RAMP-09 3

GENERAL NOTES

1. DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.
2. GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. PROVIDE DRAINAGE AWAY FROM CURB RAMP AT GUTTER FLAG INTERFACE.
3. 1.5% TYPICAL LANDING CROSS SLOPE SHALL NOT EXCEED 2.0% IN ANY DIRECTION.
4. 1.5% TYPICAL SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2.0% WITHOUT PRIOR APPROVAL FROM ENGINEER.





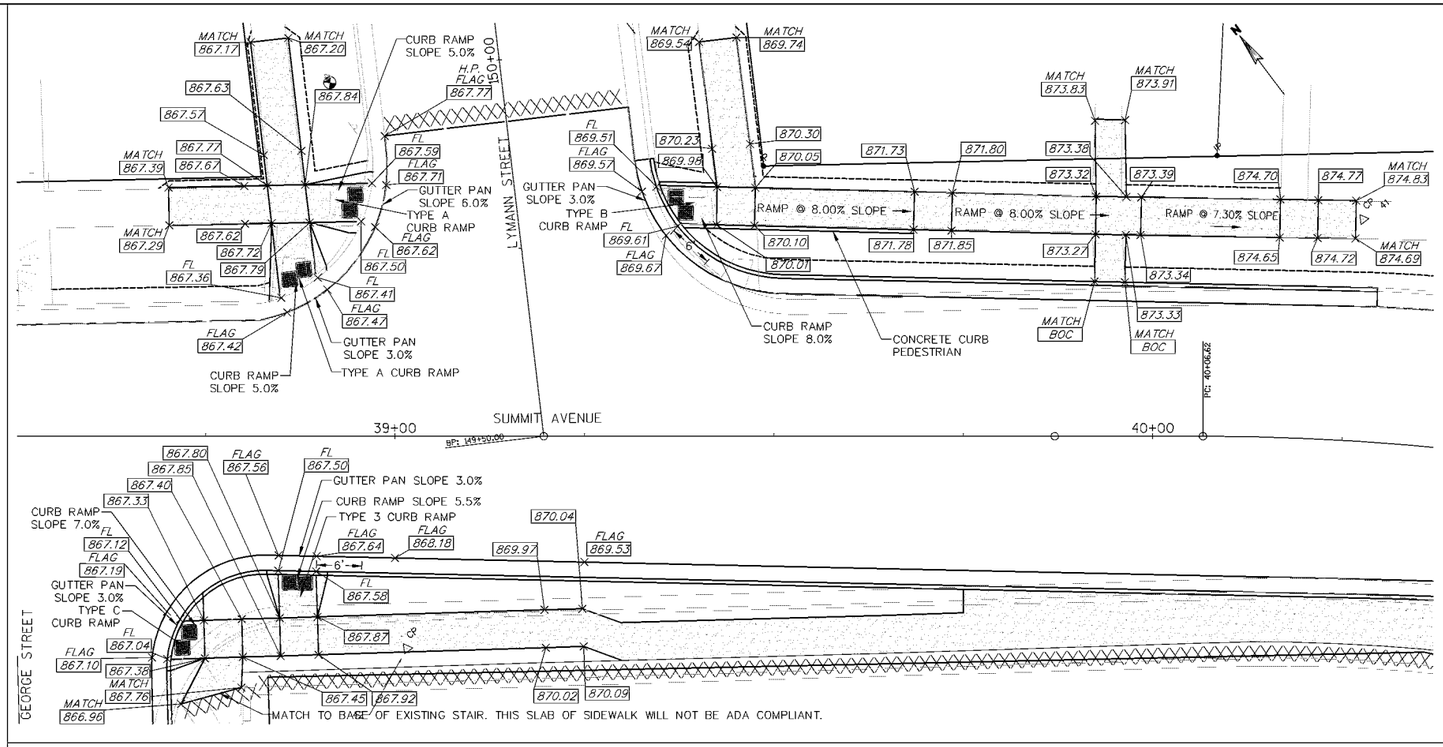


PROJECT NO: 2718-00-74	SUMMIT AVENUE	COUNTY: WAUKESHA	TIE SHEET - SUMMIT AVENUE	SHEET 18	E

2

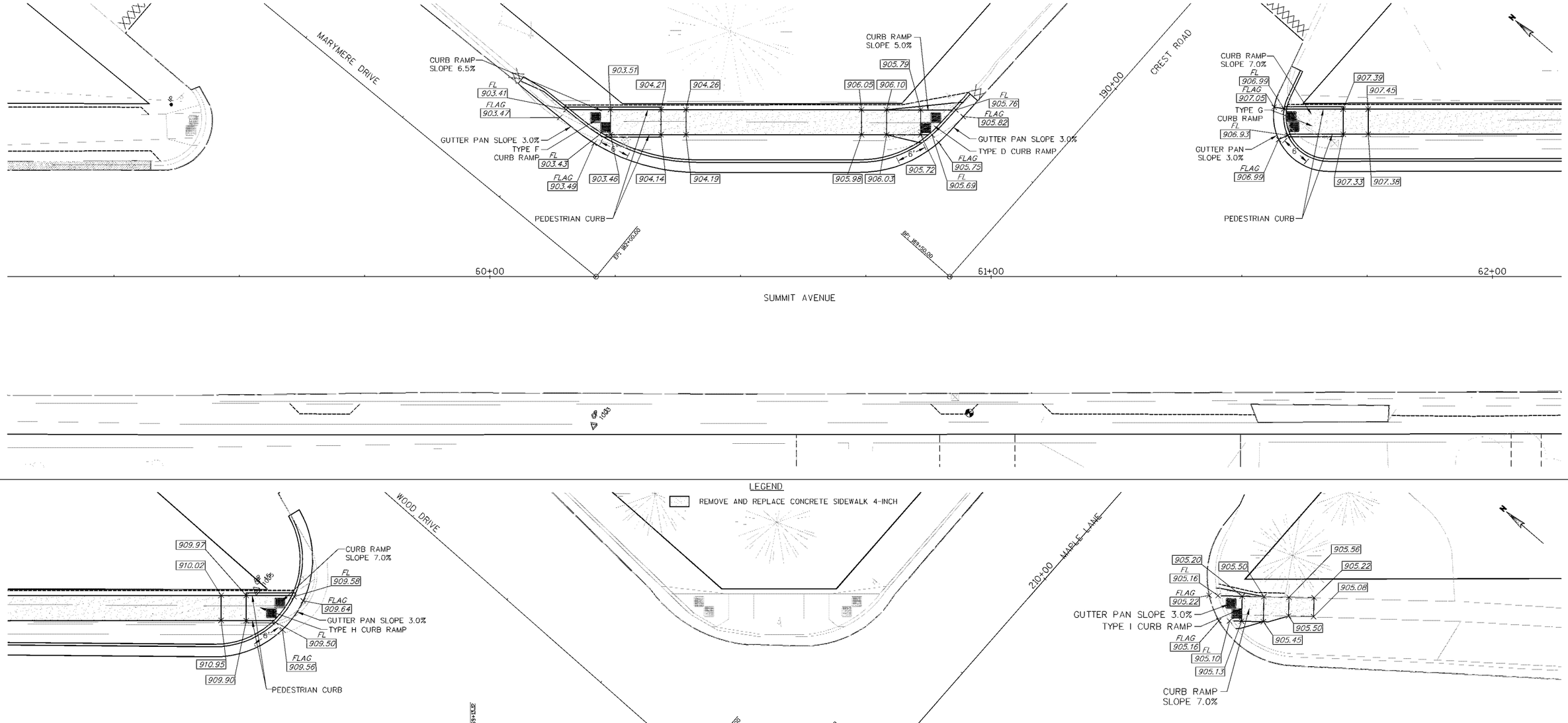
LEGEND

REMOVE AND REPLACE CONCRETE SIDEWALK 4-INCH



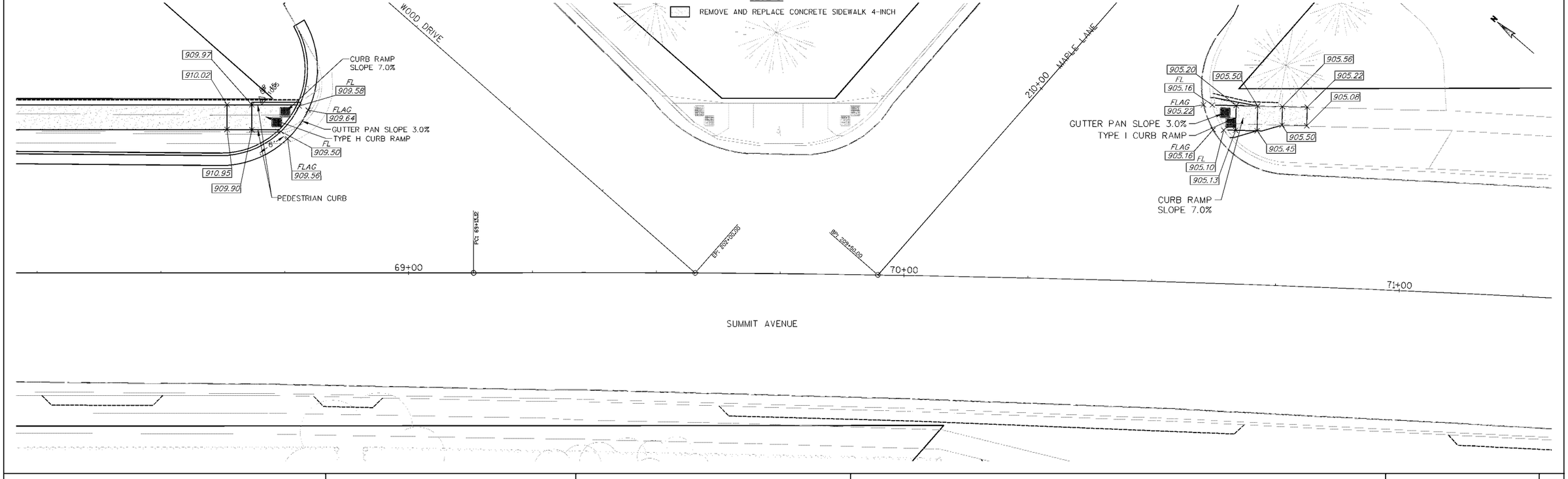
PROJECT NO: 2718-00-74	SUMMIT AVENUE	COUNTY: WAUKESHA	INTERSECTION DETAILS	SHEET 19	E

FILE NAME : G:\C3D\4792219\DWG\Z-012-INTERSECTION DETAIL-01.DWG PLOT DATE : 1/28/2014 8:30 AM PLOT BY : ROTH, PETER PLOT NAME : PLOT SCALE : 10:1



LEGEND

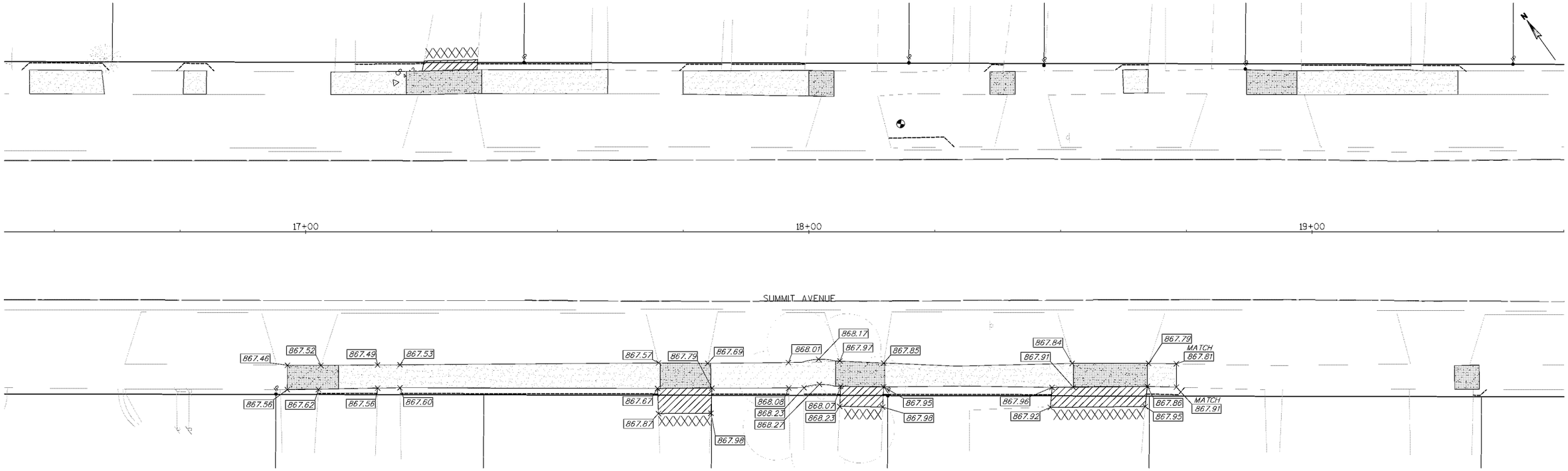
REMOVE AND REPLACE CONCRETE SIDEWALK 4-INCH

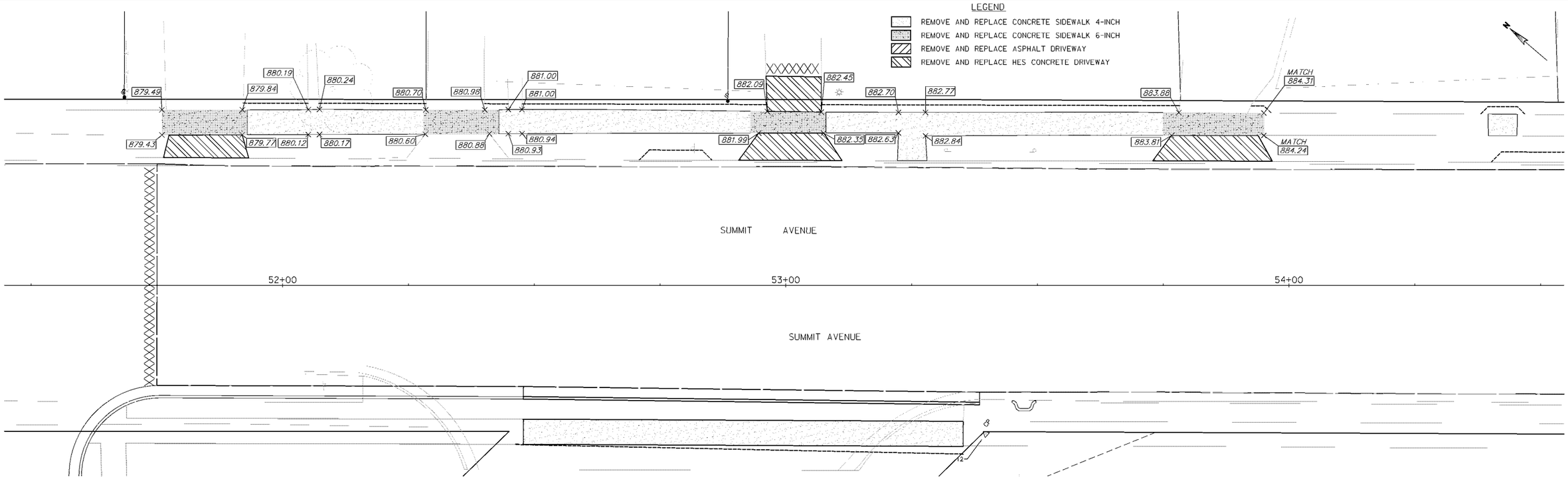


PROJECT NO: 2718-00-74	SUMMIT AVENUE	COUNTY: WAUKESHA	INTERSECTION DETAILS	SHEET 20	E

FILE NAME : G:\C3D\4792219\DWG\Z-013-INTERSECTION DETAIL-02.DWG PLOT DATE : 1/28/2014 8:30 AM PLOT BY : ROTH, PETER PLOT NAME : PLOT SCALE : 10:1

2





PROJECT NO: 2718-00-74	SUMMIT AVENUE	COUNTY: WAUKESHA	INTERSECTION DETAILS	SHEET 21	E

2

BEGINNING OF
PROJECT 2718-00-74
STA. 13+34
X = 611912.858
Y = 196830.568

SUMMIT AVENUE

MAIN STREET

CROSS STREET

S SILVER LAKE STREET

S WOOD STREET

S WESTOVER STREET

SECTION LINE

MATCH LINE

STA. 21+50

STA. 33+50

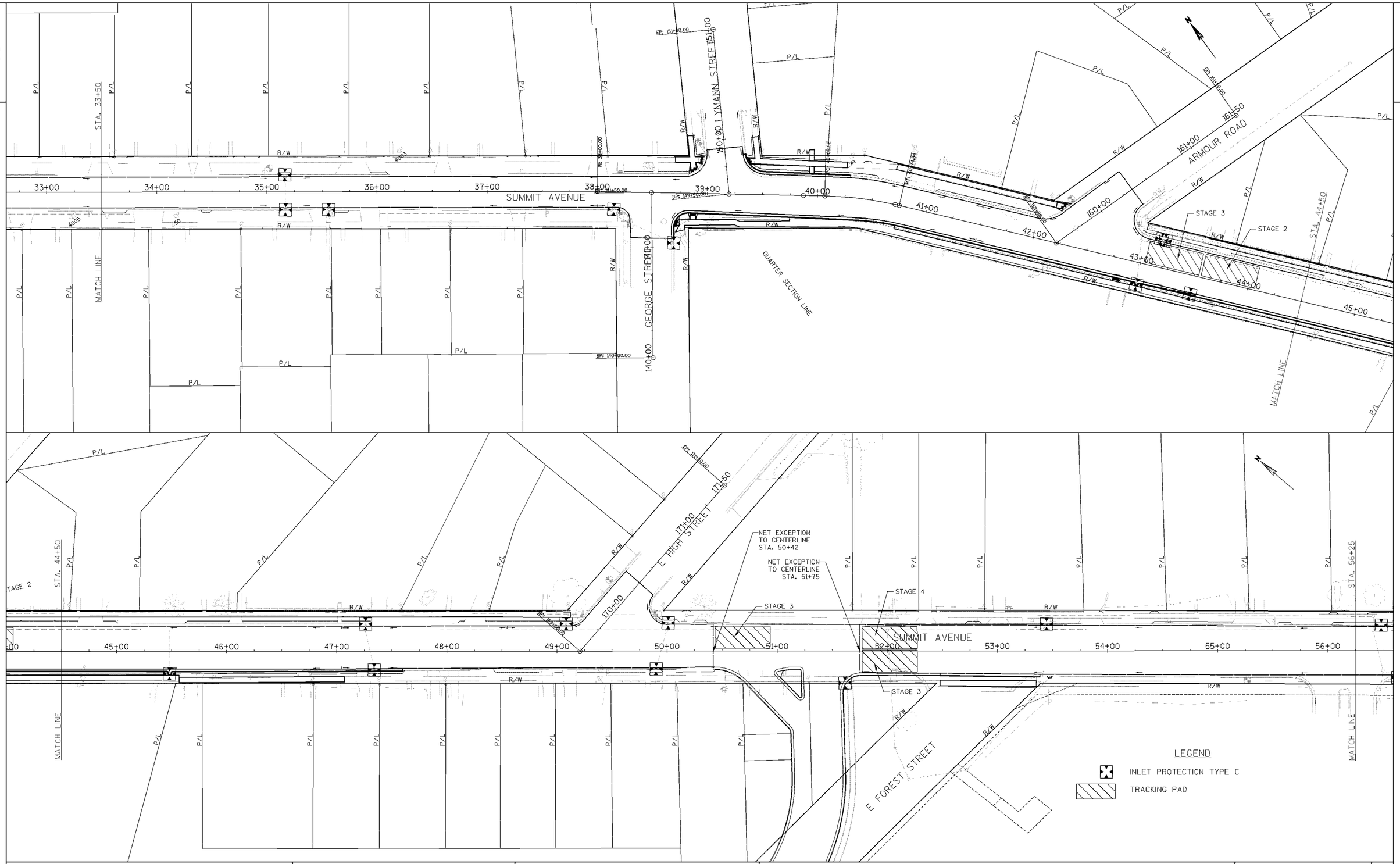
LEGEND

INLET PROTECTION TYPE C

TRACKING PAD

PROJECT NO: 2718-00-74	SUMMIT AVENUE	COUNTY: WAUKESHA	EROSION CONTROL	SHEET 22	E

2



PROJECT NO: 2718-00-74	SUMMIT AVENUE	COUNTY: WAUKESHA	EROSION CONTROL	SHEET 23	E

2

2

STA. 56+25

STA. 67+75

MARYMERE DRIVE

CREST ROAD

WOOD DRIVE

MAPLE LANE

SUMMIT AVENUE

OLD TOWER ROAD

THACKERAY TRAIL

MATCH LINE

MATCH LINE

R/W

P/L

56+00 57+00 58+00 59+00 60+00 61+00 62+00 63+00 64+00 65+00 66+00 67+00 68+00

68+00 69+00 70+00 71+00 72+00 73+00 74+00 75+00 76+00 77+00 78+00 79+00

180+00 190+00 191+00 191+50

200+00 210+00 211+00 211+50

LEGEND

INLET PROTECTION TYPE C

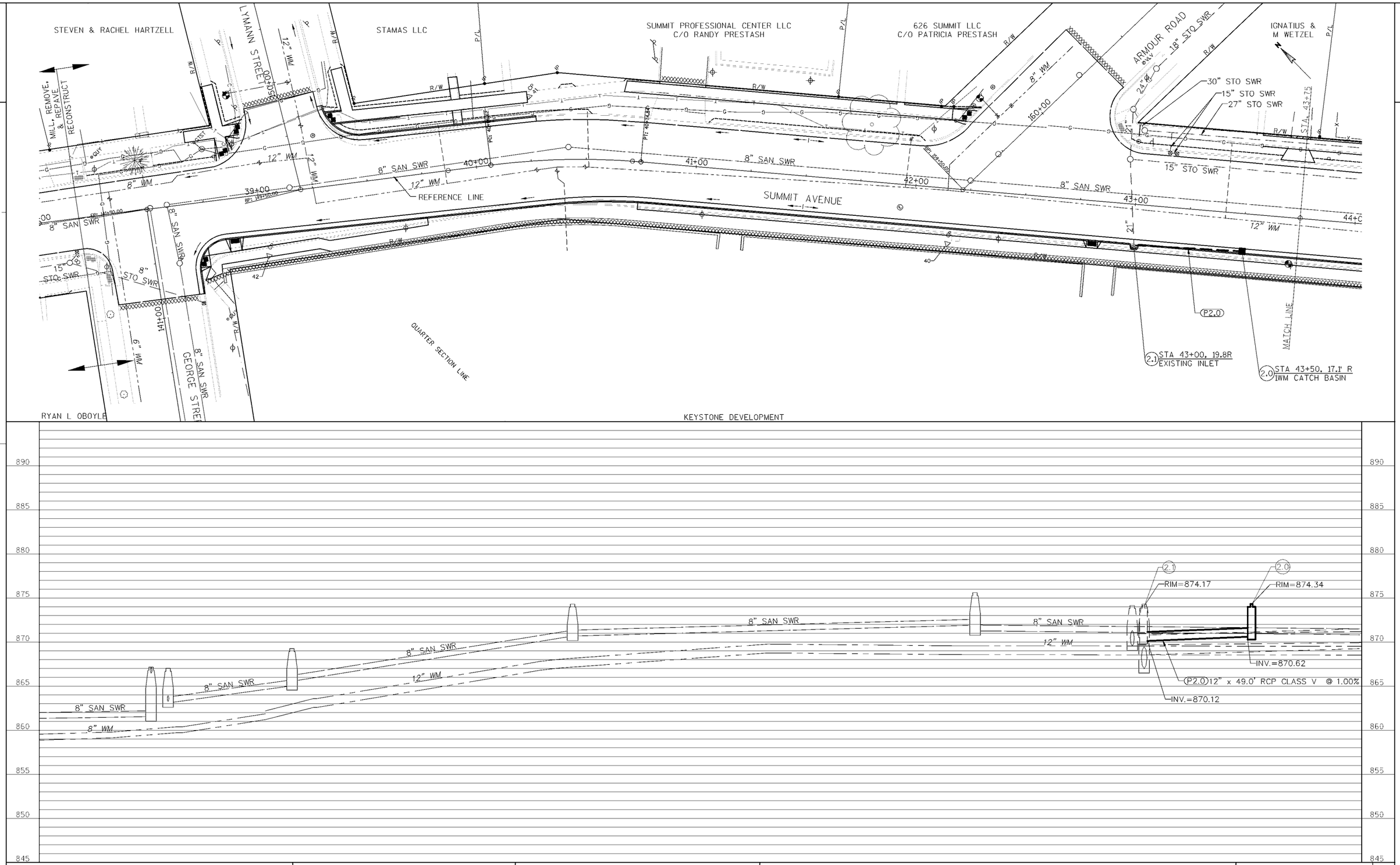
TRACKING PAD

STAGE 4

STAGE 3

END OF PROJECT 2718-00-74
STA. 73+87
X = 616264.977
Y = 192688.479

PROJECT NO: 2718-00-74	SUMMIT AVENUE	COUNTY: WAUKESHA	EROSION CONTROL	SHEET 24	E



PROJECT NO: 2718-00-74	SUMMIT AVENUE	COUNTY: WAUKESHA	STORM SEWER/UTILITY PLAN	SHEET 25	E

FILE NAME : G:\C3D\4792219\DWG\Z-017-SUMMIT AVENUE-SS-1.DWG PLOT DATE : 1/28/2014 8:36 AM PLOT BY : ROTH, PETER PLOT NAME : ----------

WISDOT/CADDS SHEET 41

2

PHYLLIS J ROACH LIVING TRUST

WILBER G GILL

KEVIN & JESSICA KOSKI

DALE JOHNSON, CROWN INVESTMENTS PARTNERSHIP, KELLY TRUST

8" SANITARY SEWER

8" WATER MAIN

MARYMERE DRIVE

CREST ROAD

8" WATER MAIN

8" STO SWR

8" STO SWR

REMOVE EXISTING INLET

(3.1) STA 60+31 EXISTING MANHOLE

REMOVE EXISTING INLET STA. 62+00

15" STORM SEWER

15" STORM SEWER

15" STORM SEWER

15" STORM SEWER

15" STORM SEWER

(P3.0)

(P4.0)

(P4.1)

8" SANITARY SEWER

12" WATER MAIN

8" SANITARY SEWER

12" WATER MAIN

SUMMIT AVENUE

57+00

58+00

59+00

60+00

61+00

62+00

15" STO SWR

8" STO SWR

3' SEPARATION FROM EDGE OF CONCRETE PEDESTRIAN CURB TO EDGE OF CATCH BASIN 3.0

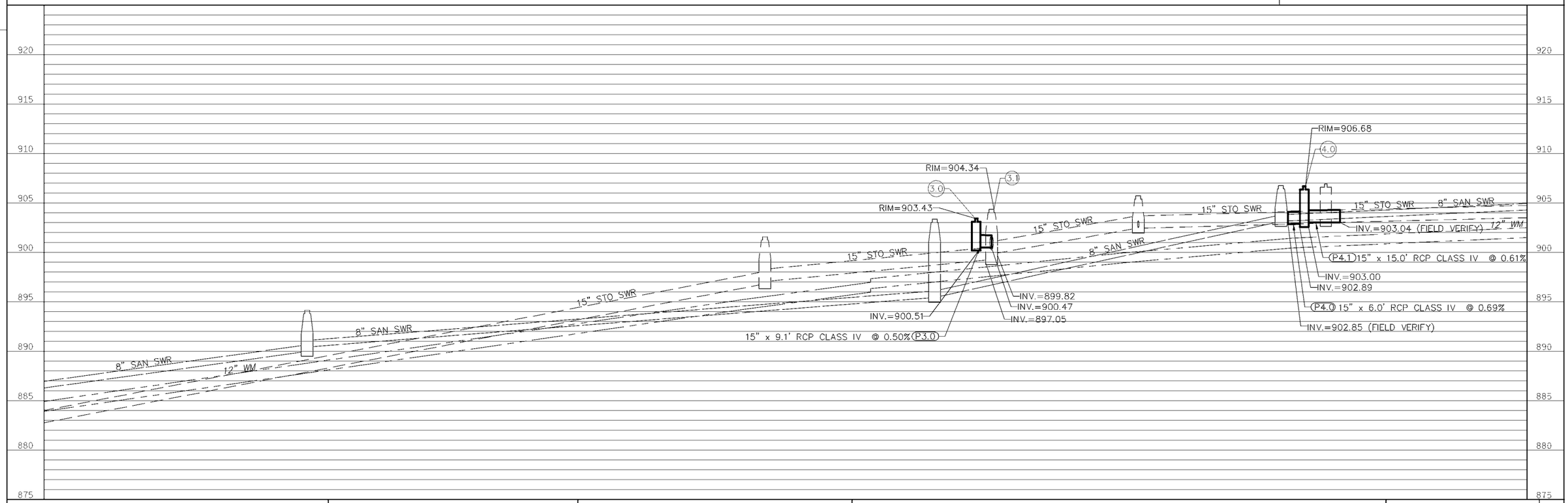
STA 60+27.17 24.8 LT 1A CATCH BASIN (3.0)

STA 61+59.87 26.5 LT 1WM MANHOLE (5'x5') SEE DETAIL (4.0)

MATCH LINE

OCONOMOWOC MEM HOSPITAL INC & MEMORIAL HOSPITAL AT OCONOMOWOC

SUMMIT AVENUE REALTY LLC



PROJECT NO: 2718-00-74	SUMMIT AVENUE	COUNTY: WAUKESHA	STORM SEWER/UTILITY PLAN	SHEET 26	E

FILE NAME : G:\C3D\4792219\DWG\Z-018-SUMMIT AVENUE-SS-2.DWG PLOT DATE : 1/31/2014 8:32 AM PLOT BY : KLOSKOWSKI, CHRYSA PLOT NAME : ----------

WISDOT/CADDS SHEET 41

2

DALE JOHNSON, CROWN INVESTMENTS PARTNERSHIP, KELLY TRUST

MATTHEW L LEHMAN

DREAMSCAPE PROPERTIES LLC

CREST ROAD

STA. 62+00

STA. 67+00

STA 63+51.68 22.5 LT (5.0)
1WM MANHOLE (5'x5')
SEE DETAIL

REMOVE EXISTING MANHOLE

REMOVE EXISTING INLET

HYDRANT ADJUSTMENT

15" STORM SEWER

12" WATER MAIN

12" WATER MAIN

(P5.0)

(P5.1)

62+00 63+00 64+00 65+00 66+00 67+00

SUMMIT AVENUE

12" STO SWR

8" SANITARY SEWER

8" SANITARY SEWER

MATCH LINE

MATCH LINE

SUMMIT AVENUE REALTY LLC

OCONOMOWOC MEM HOSPITAL INC &
MEMORIAL HOSPITAL AT OCONOMOWOC

925 920 915 910 905 900 895 890 885

RIM=906.68

(4.0)

15" STO SWR

INV.=903.04 (FIELD VERIFY)

(P4.1) 15" x 15.0' RCP CLASS IV @ 0.61%

INV.=903.00

INV.=902.89

(P4.0) 15" x 6.0' RCP CLASS IV @ 0.69%

INV.=902.85 (FIELD VERIFY)

8" SAN SWR

12" WM

(5.0)

RIM=909.21

INV.=904.08 (FIELD VERIFY)

15" x 6.0' RCP CLASS IV @ 0.61%

(P5.0)

INV.=904.12

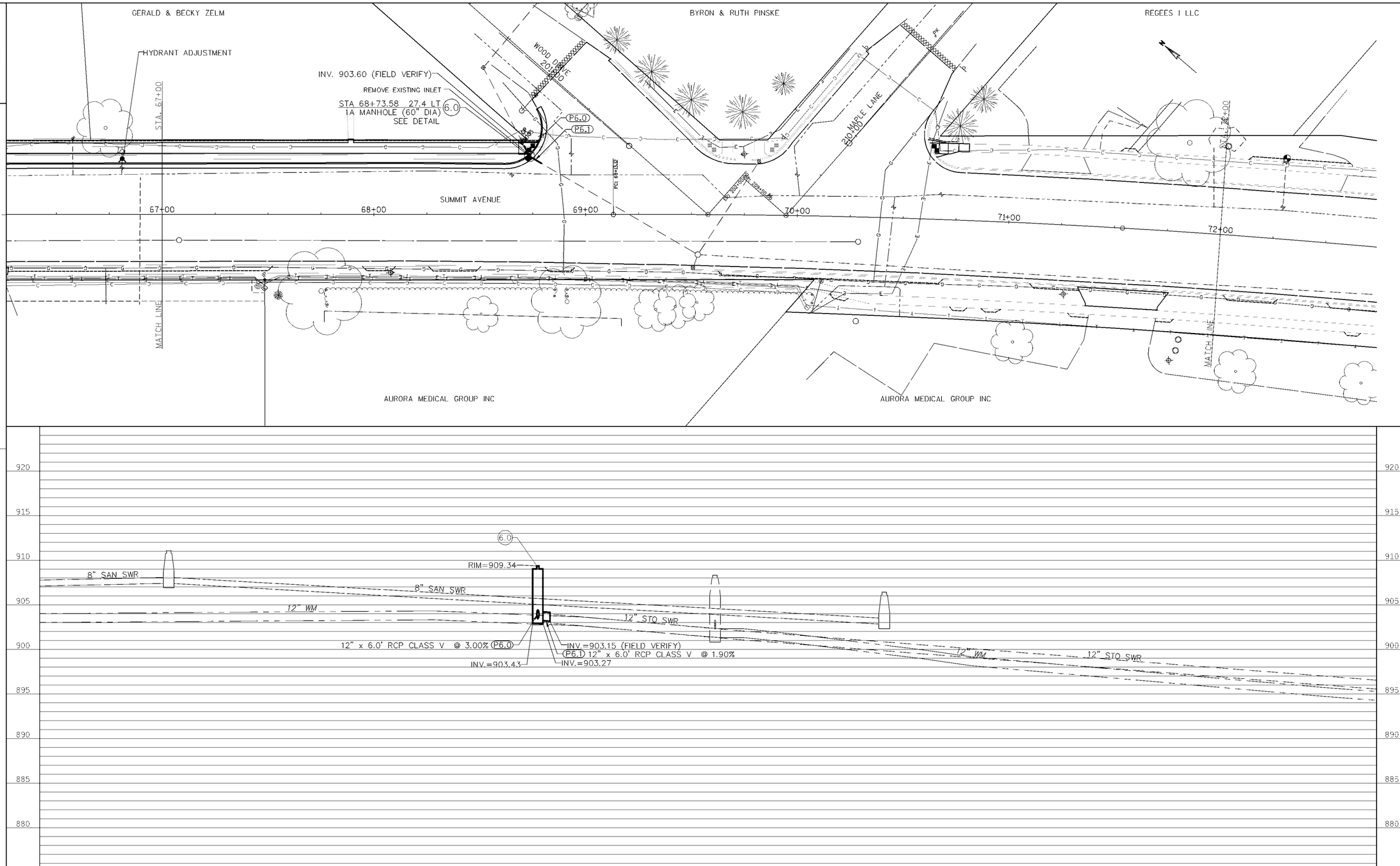
(P5.1) 12" x 6.0' RCP CLASS V @ 1.28%

INV.=904.61

8" SAN SWR

12" WM

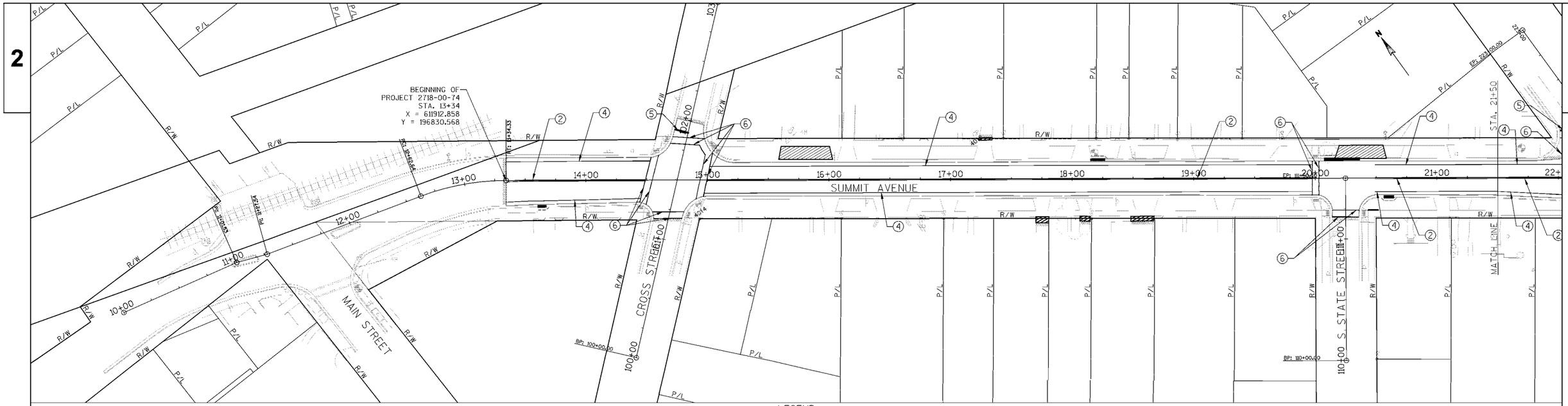
PROJECT NO: 2718-00-74	SUMMIT AVENUE	COUNTY: WAUKESHA	STORM SEWER/UTILITY PLAN	SHEET 27	E



PROJECT NO: 2718-00-74	SUMMIT AVENUE	COUNTY: WAUKESHA	STORM SEWER/UTILITY PLAN	SHEET 28	E

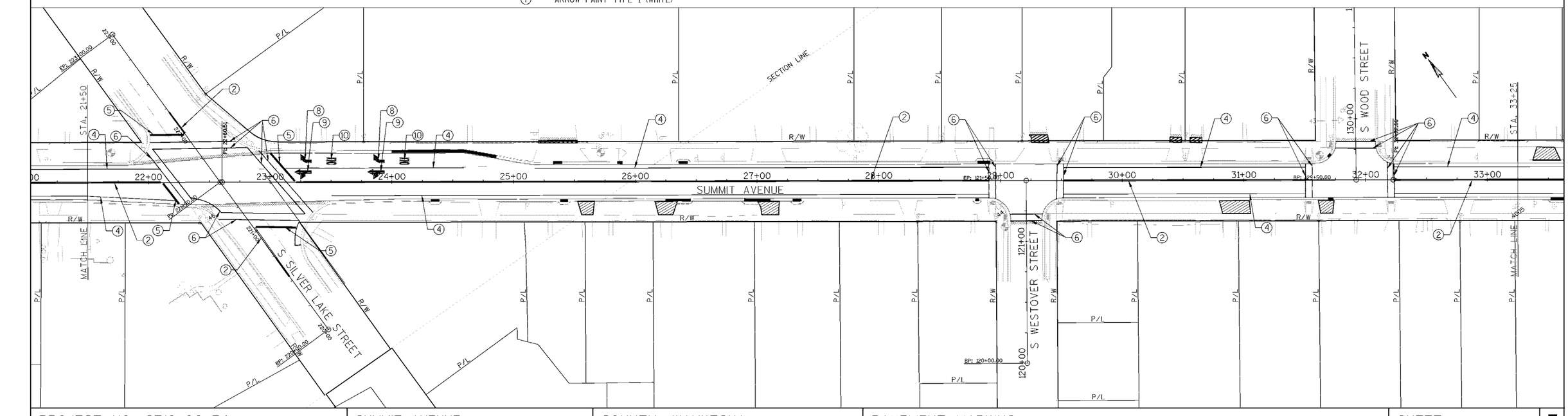
FILE NAME : G:\C3D\4792219\DWG\Z-020-SUMMIT AVENUE-SS-4.DWG PLOT DATE : 1/28/2014 8:39 AM PLOT BY : ROTH, PETER PLOT NAME : ----------

WISDOT/CADDS SHEET 41

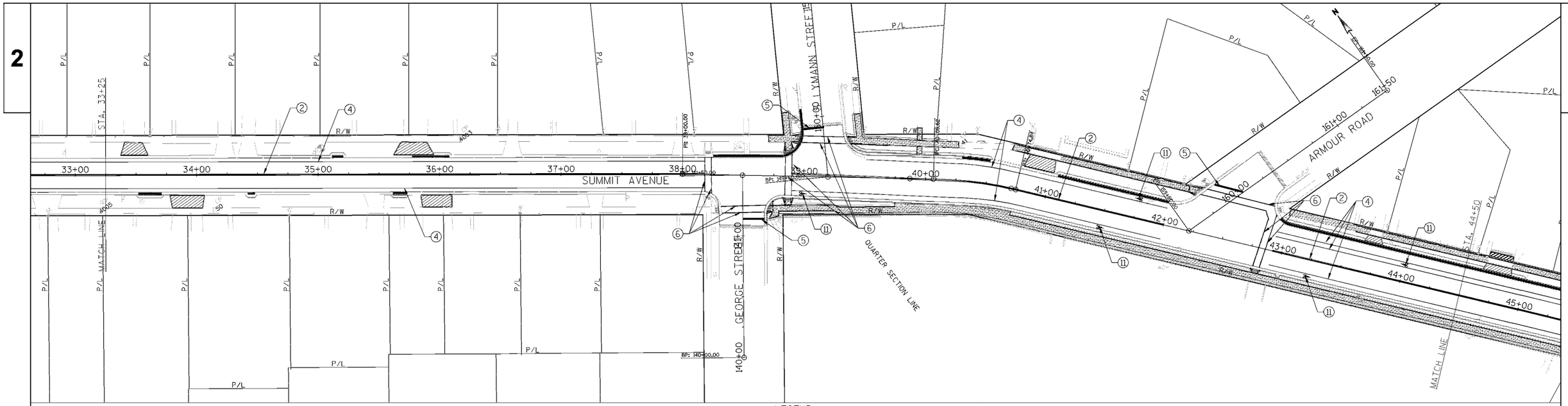


LEGEND

①	PAINT 4-INCH (YELLOW)	⑧	ARROW PAINT TYPE 2 (WHITE)
②	PAINT 4-INCH DOUBLE (YELLOW)	⑨	ARROW PAINT TYPE 3 (WHITE)
③	PAINT 4-INCH BROKEN (YELLOW, 10FT LINE 30FT GAP)	⑩	WORD "ONLY" (WHITE)
④	PAINT 4-INCH (WHITE)	⑪	SYMBOL BIKE LANE PAINT (WHITE)
⑤	STOP LINE PAINT 18-INCH (WHITE)	⑫	ARROW BIKE LINE PAINT (WHITE)
⑥	CROSSWALK PAINT 12-INCH (WHITE)	⑬	PAINT 12-INCH (YELLOW)
⑦	ARROW PAINT TYPE 1 (WHITE)		

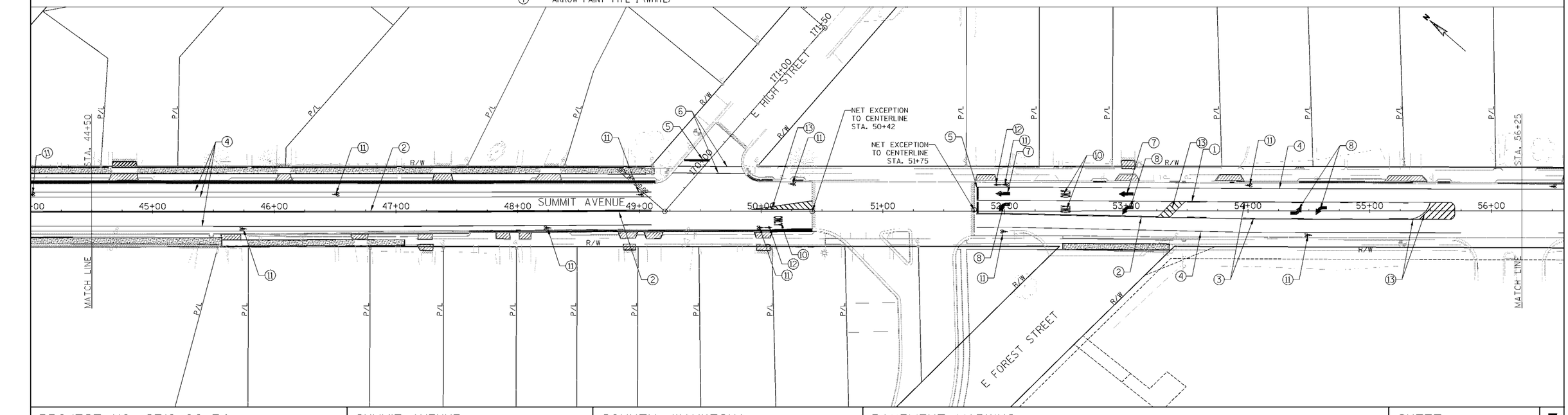


PROJECT NO: 2718-00-74	SUMMIT AVENUE	COUNTY: WAUKESHA	PAVEMENT MARKING	SHEET 29	E

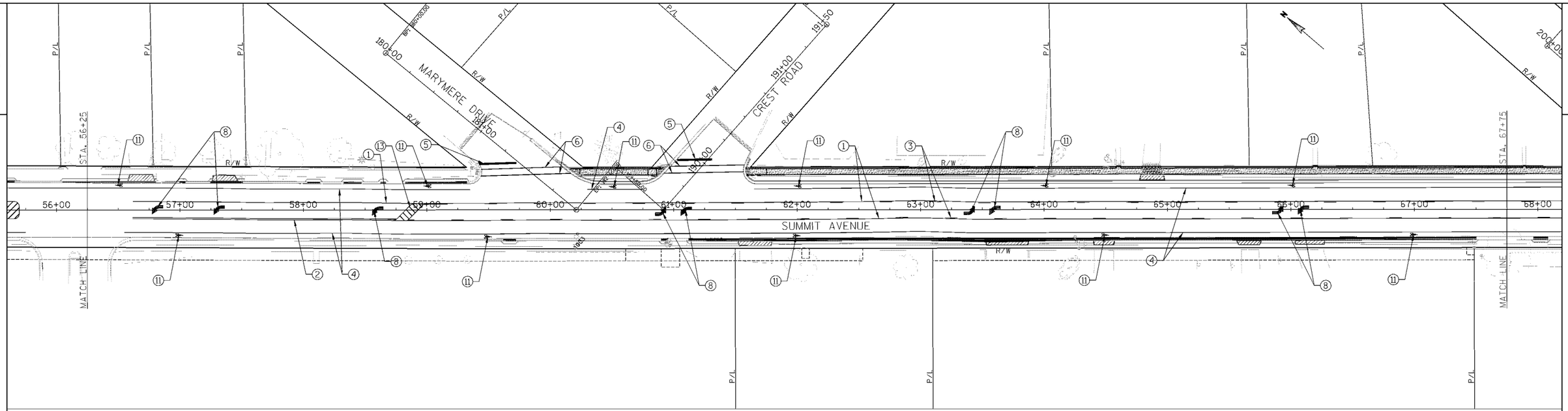


LEGEND

①	PAINT 4-INCH (YELLOW)	⑧	ARROW PAINT TYPE 2 (WHITE)
②	PAINT 4-INCH DOUBLE (YELLOW)	⑨	ARROW PAINT TYPE 3 (WHITE)
③	PAINT 4-INCH BROKEN (YELLOW, 10FT LINE 30FT GAP)	⑩	WORD "ONLY" (WHITE)
④	PAINT 4-INCH (WHITE)	⑪	SYMBOL BIKE LANE PAINT (WHITE)
⑤	STOP LINE PAINT 18-INCH (WHITE)	⑫	ARROW BIKE LINE PAINT (WHITE)
⑥	CROSSWALK PAINT 12-INCH (WHITE)	⑬	PAINT 12-INCH (YELLOW)
⑦	ARROW PAINT TYPE 1 (WHITE)		

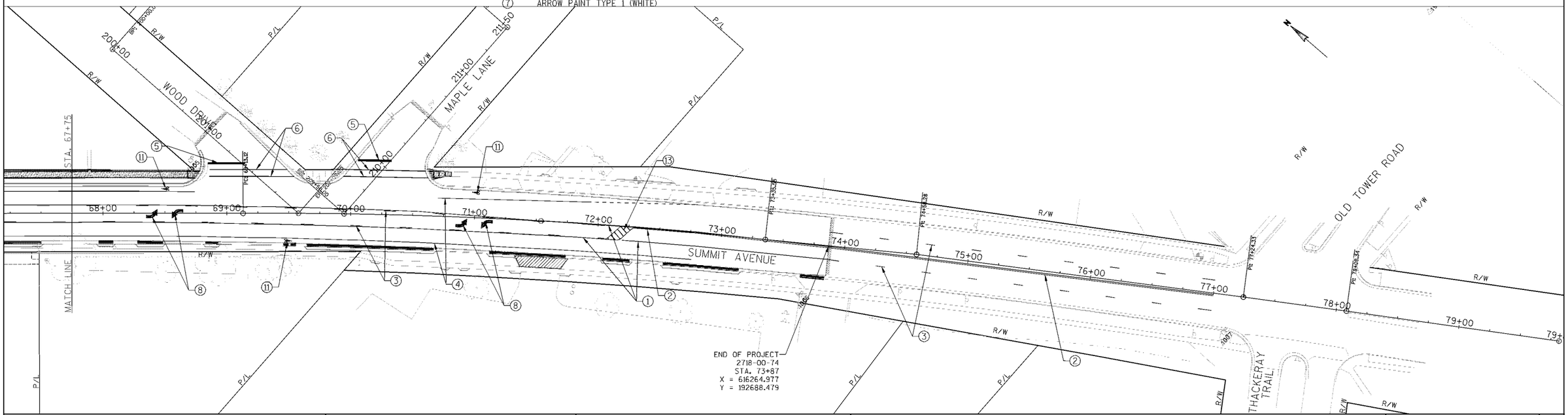


PROJECT NO: 2718-00-74	SUMMIT AVENUE	COUNTY: WAUKESHA	PAVEMENT MARKING	SHEET 30	E



LEGEND

①	PAINT 4-INCH (YELLOW)	⑧	ARROW PAINT TYPE 2 (WHITE)
②	PAINT 4-INCH DOUBLE (YELLOW)	⑨	ARROW PAINT TYPE 3 (WHITE)
③	PAINT 4-INCH BROKEN (YELLOW, 10FT LINE 30FT GAP)	⑩	WORD "ONLY" (WHITE)
④	PAINT 4-INCH (WHITE)	⑪	SYMBOL BIKE LANE PAINT (WHITE)
⑤	STOP LINE PAINT 18-INCH (WHITE)	⑫	ARROW BIKE LINE PAINT (WHITE)
⑥	CROSSWALK PAINT 12-INCH (WHITE)	⑬	PAINT 12-INCH (YELLOW)
⑦	ARROW PAINT TYPE 1 (WHITE)		



PROJECT NO: 2718-00-74	SUMMIT AVENUE	COUNTY: WAUKESHA	PAVEMENT MARKING	SHEET 31	E

2

BEGINNING OF
PROJECT 2718-00-74
STA. 13+34
X = 611912.858
Y = 196830.568

SUMMIT AVENUE

MAIN STREET

CROSS STREET

S SILVER LAKE STREET

S WOOD STREET

S WESTOVER STREET

SECTION LINE

MATCH LINE

STA. 21+50

STA. 33+50

NOTE: STAGE 1 INCLUDES ALL WORK
BETWEEN STA. 13+34 AND STA 30+25.

LEGEND

- STAGING LIMITS
- REMOVE AND REPLACE CURB & GUTTER
- REMOVE AND REPLACE CONCRETE SIDEWALK 4-INCH
- REMOVE AND REPLACE CONCRETE SIDEWALK 6-INCH
- REMOVE AND REPLACE DRIVEWAY

PROJECT NO: 2718-00-74	SUMMIT AVENUE	COUNTY: WAUKESHA	STAGING PLAN: STAGE 1	SHEET 32	E

2

2

SUMMIT AVENUE

S SILVER LAKE STREET

S WESTOVER STREET

S WOOD STREET

LYMANN STREET

GEORGE STREET

ARMOUR ROAD

SECTION LINE

QUARTER SECTION LINE

MATCH LINE

NOTE: STAGE 2 INCLUDES ALL WORK BETWEEN STA. 30+25 AND STA. 43+55.

LEGEND

- STAGING LIMITS
- REMOVE AND REPLACE CURB & GUTTER
- REMOVE AND REPLACE CONCRETE SIDEWALK 4-INCH
- REMOVE AND REPLACE CONCRETE SIDEWALK 6-INCH
- REMOVE AND REPLACE DRIVEWAY

PROJECT NO: 2718-00-74	SUMMIT AVENUE	COUNTY: WAUKESHA	STAGING PLAN: STAGE 2	SHEET 33	E

2

2

ARMOUR ROAD

SUMMIT AVENUE

E HIGH STREET

MARYMERE DRIVE

CREST ROAD

E FOREST STREET

QUARTER SECTION LINE

MATCH LINE

STA. 51+25

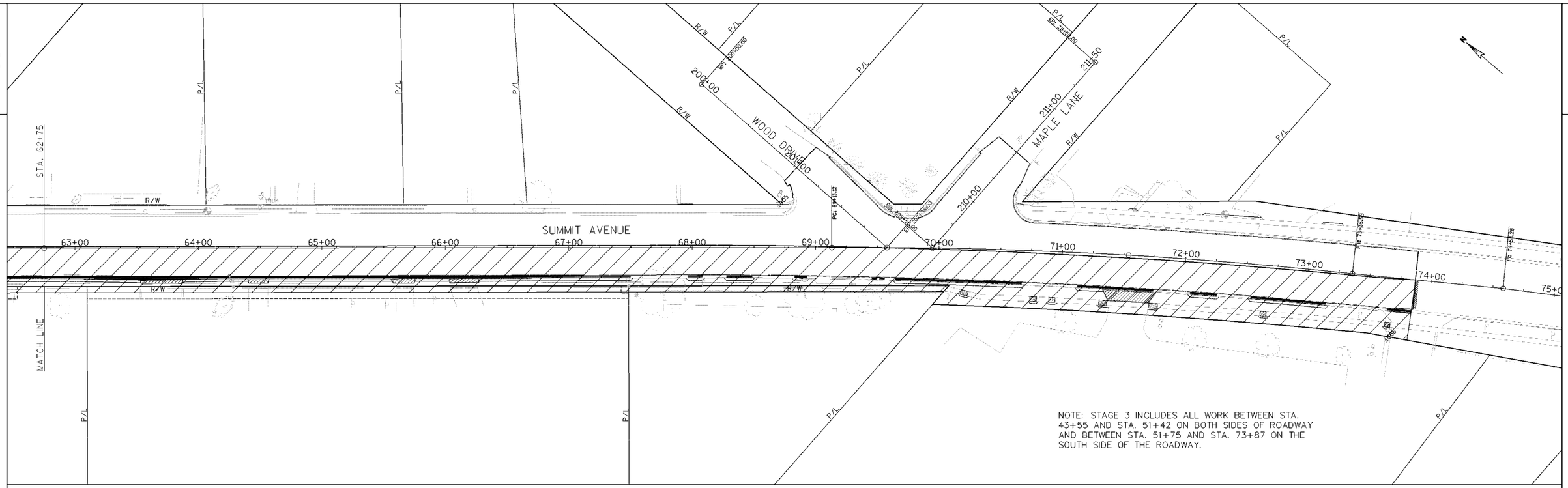
STA. 62+75

NOTE: STAGE 3 INCLUDES ALL WORK BETWEEN STA. 43+55 AND STA. 51+42 ON BOTH SIDES OF ROADWAY AND BETWEEN STA. 51+75 AND STA. 73+87 ON THE SOUTH SIDE OF THE ROADWAY.

LEGEND

- STAGING LIMITS
- REMOVE AND REPLACE CURB & GUTTER
- REMOVE AND REPLACE CONCRETE SIDEWALK 4-INCH
- REMOVE AND REPLACE CONCRETE SIDEWALK 6-INCH
- REMOVE AND REPLACE DRIVEWAY

PROJECT NO: 2718-00-74	SUMMIT AVENUE	COUNTY: WAUKESHA	STAGING PLAN: STAGE 3	SHEET 34	E

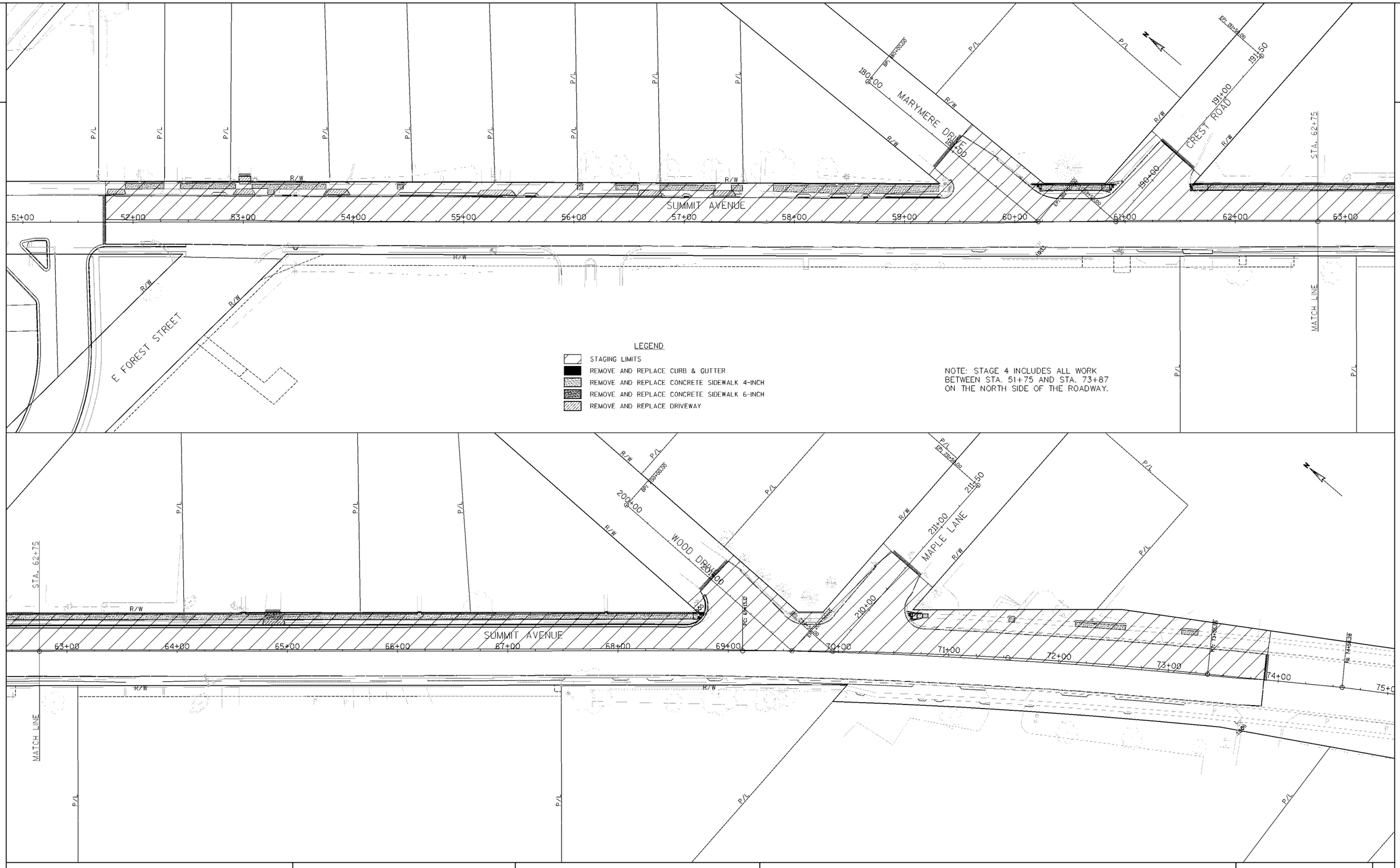


2

LEGEND

- STAGING LIMITS
- REMOVE AND REPLACE CURB & GUTTER
- REMOVE AND REPLACE CONCRETE SIDEWALK 4-INCH
- REMOVE AND REPLACE CONCRETE SIDEWALK 6-INCH
- REMOVE AND REPLACE DRIVEWAY

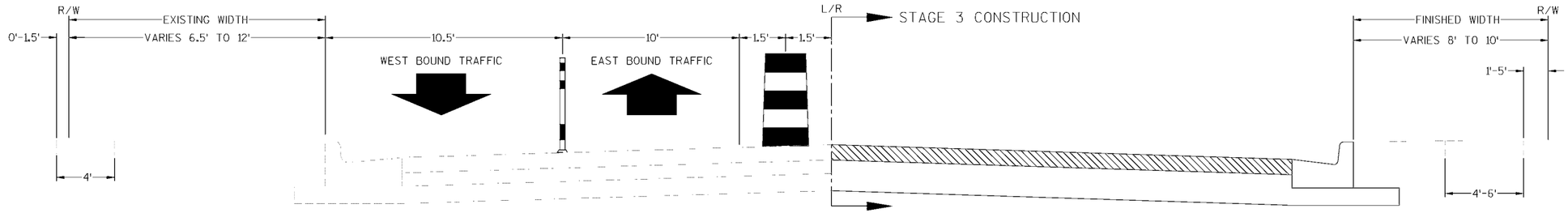
PROJECT NO: 2718-00-74	SUMMIT AVENUE	COUNTY: WAUKESHA	STAGING PLAN: STAGE 3	SHEET 35	E



PROJECT NO: 2718-00-74	SUMMIT AVENUE	COUNTY: WAUKESHA	STAGING PLAN: STAGE 4	SHEET 36	E

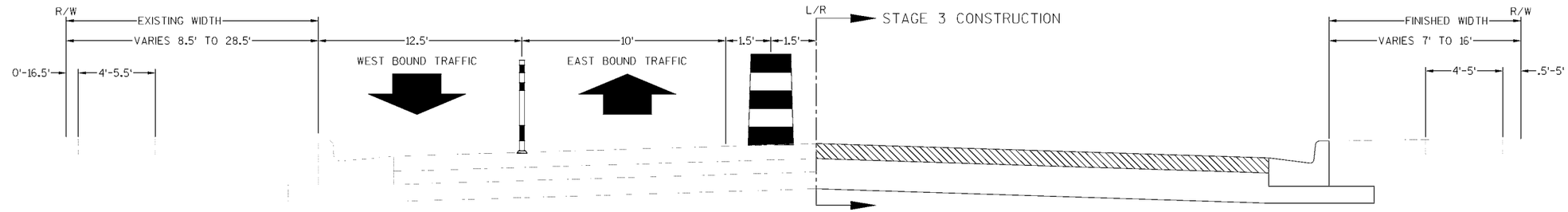
FILE NAME : G:\C3D\4792219\DWG\Z-028-STAGING PLAN-05.DWG PLOT DATE : 1/28/2014 8:46 AM PLOT BY : ROTH, PETER PLOT NAME : PLOT SCALE : 40:1

WISDOT/CADDS SHEET 42



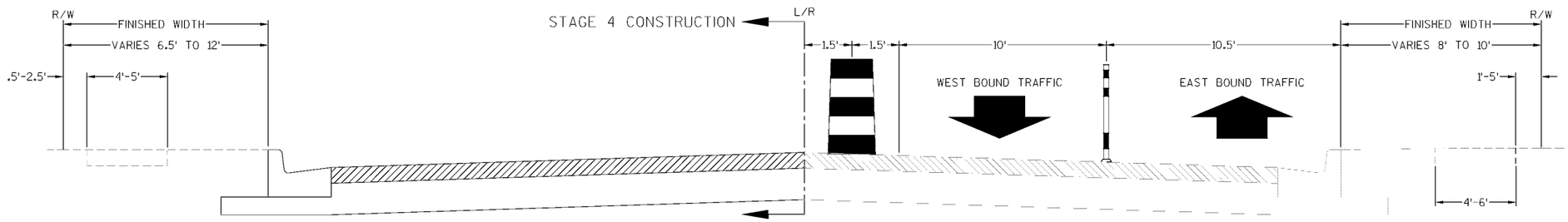
STAGE 3 TRAFFIC CONTROL TYPICAL

SUMMIT AVENUE
STA 51+75 TO STA 60+00



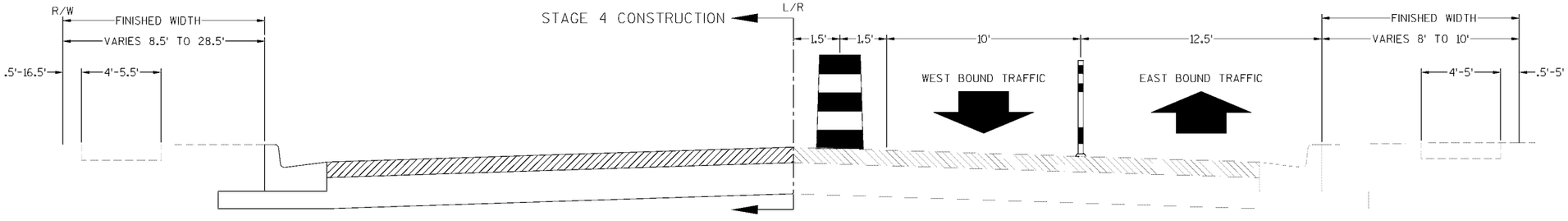
STAGE 3 TRAFFIC CONTROL TYPICAL

SUMMIT AVENUE
STA 60+00 TO 73+87



STAGE 4 TRAFFIC CONTROL TYPICAL

SUMMIT AVENUE
STA 51+75 TO STA 60+00



STAGE 4 TRAFFIC CONTROL TYPICAL

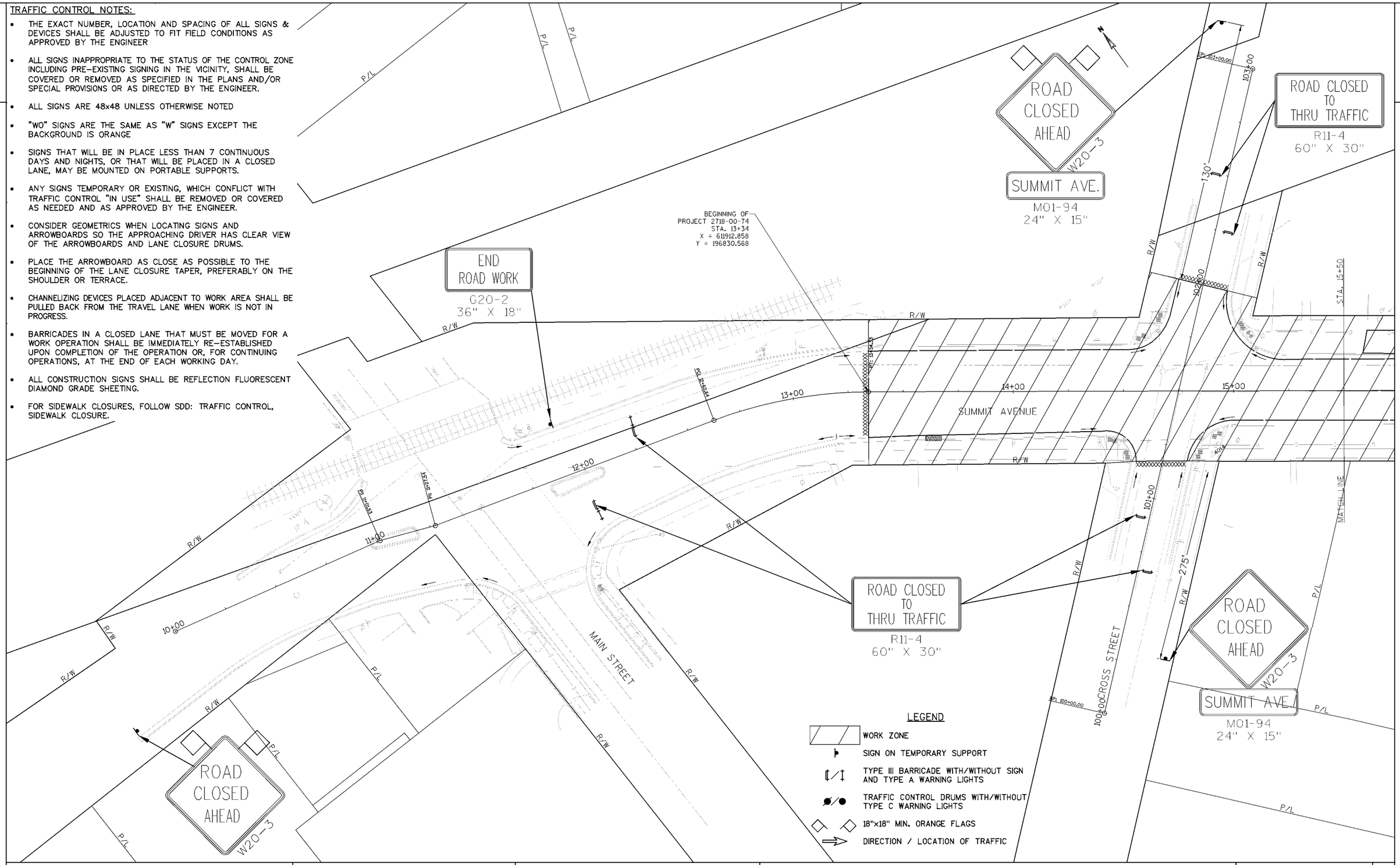
SUMMIT AVENUE
STA 60+00 TO 73+87

PROJECT NO: 2718-00-74	SUMMIT AVENUE	COUNTY: WAUKESHA	TRAFFIC CONTROL TYPICAL SECTIONS	SHEET 37	E

2

TRAFFIC CONTROL NOTES:

- THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS & DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER
- ALL SIGNS INAPPROPRIATE TO THE STATUS OF THE CONTROL ZONE INCLUDING PRE-EXISTING SIGNING IN THE VICINITY, SHALL BE COVERED OR REMOVED AS SPECIFIED IN THE PLANS AND/OR SPECIAL PROVISIONS OR AS DIRECTED BY THE ENGINEER.
- ALL SIGNS ARE 48x48 UNLESS OTHERWISE NOTED
- "WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE
- SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, OR THAT WILL BE PLACED IN A CLOSED LANE, MAY BE MOUNTED ON PORTABLE SUPPORTS.
- ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.
- CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROWBOARDS SO THE APPROACHING DRIVER HAS CLEAR VIEW OF THE ARROWBOARDS AND LANE CLOSURE DRUMS.
- PLACE THE ARROWBOARD AS CLOSE AS POSSIBLE TO THE BEGINNING OF THE LANE CLOSURE TAPER, PREFERABLY ON THE SHOULDER OR TERRACE.
- CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.
- BARRICADES IN A CLOSED LANE THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION OR, FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.
- ALL CONSTRUCTION SIGNS SHALL BE REFLECTION FLUORESCENT DIAMOND GRADE SHEETING.
- FOR SIDEWALK CLOSURES, FOLLOW SDD: TRAFFIC CONTROL, SIDEWALK CLOSURE.



PROJECT NO: 2718-00-74	SUMMIT AVENUE	COUNTY: WAUKESHA	TRAFFIC CONTROL: STAGE 1	SHEET 38	E

2

TRAFFIC CONTROL NOTES:

- THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS & DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER
- "WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE
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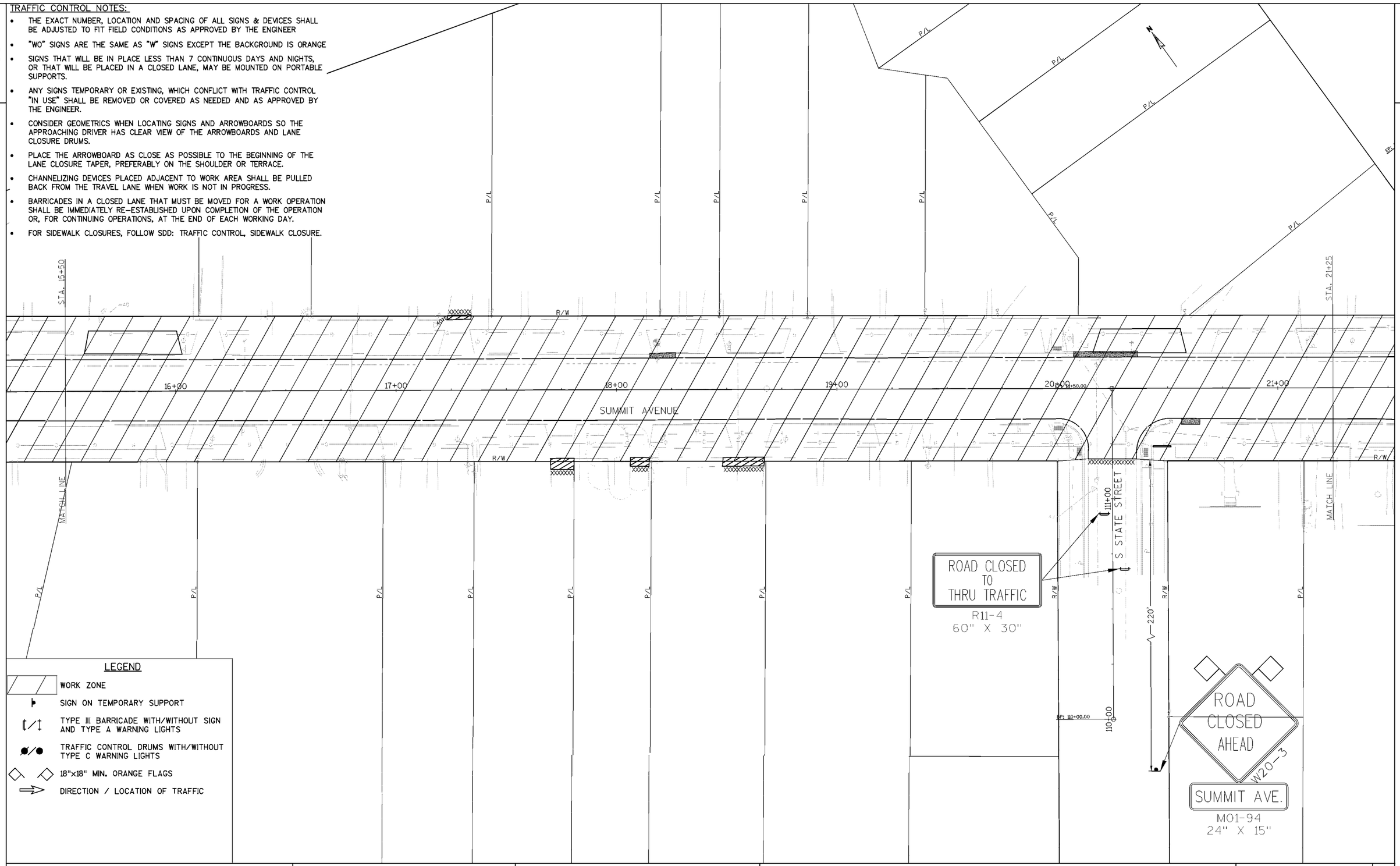
- FOR SIDEWALK CLOSURES, FOLLOW SDD: TRAFFIC CONTROL, SIDEWALK CLOSURE.

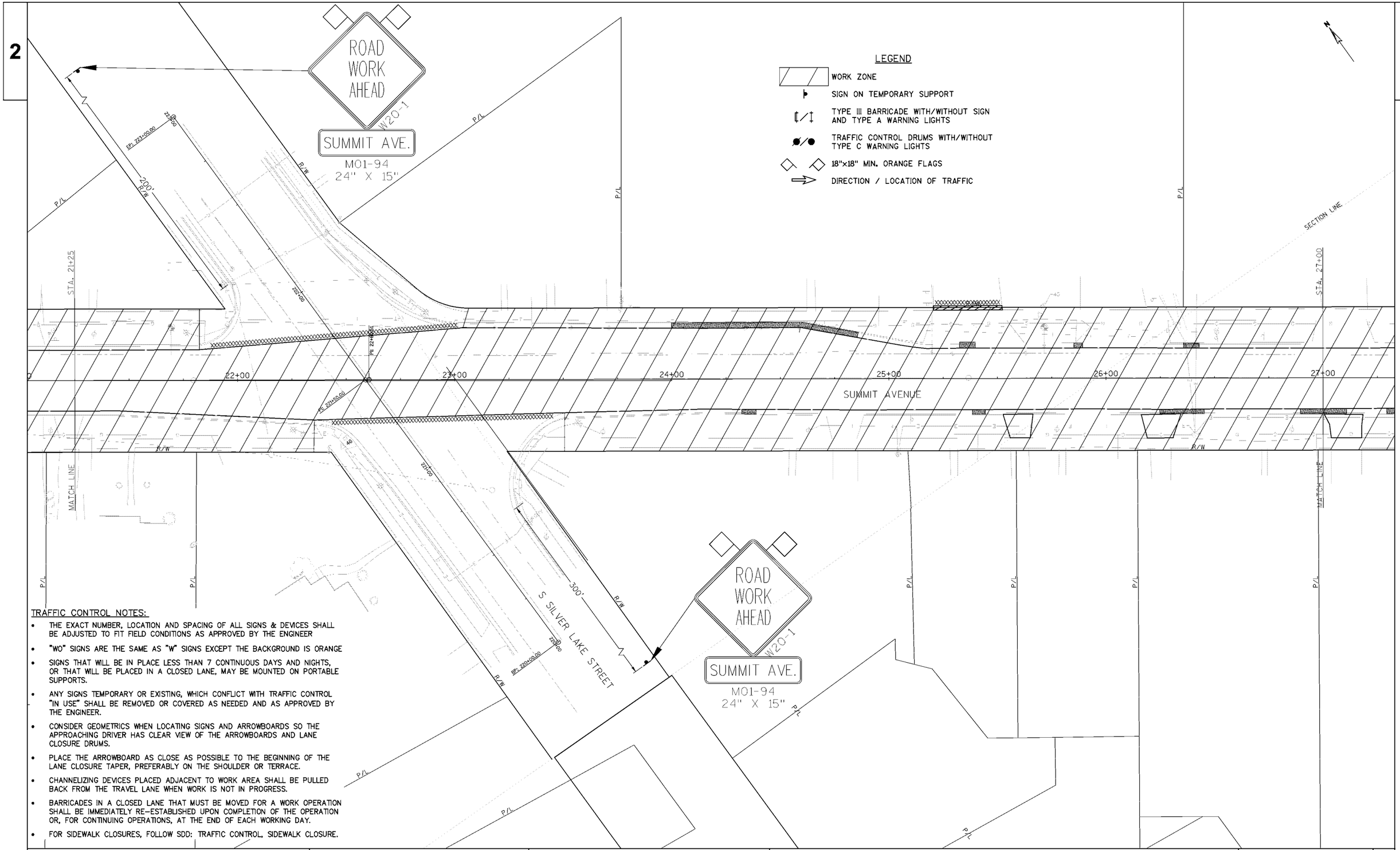


LEGEND

- WORK ZONE
- SIGN ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN AND TYPE A WARNING LIGHTS
- TRAFFIC CONTROL DRUMS WITH/WITHOUT TYPE C WARNING LIGHTS
- 18"x18" MIN. ORANGE FLAGS
- DIRECTION / LOCATION OF TRAFFIC

PROJECT NO: 2718-00-74	SUMMIT AVENUE	COUNTY: WAUKESHA	TRAFFIC CONTROL: STAGE 1	SHEET 39	E

2



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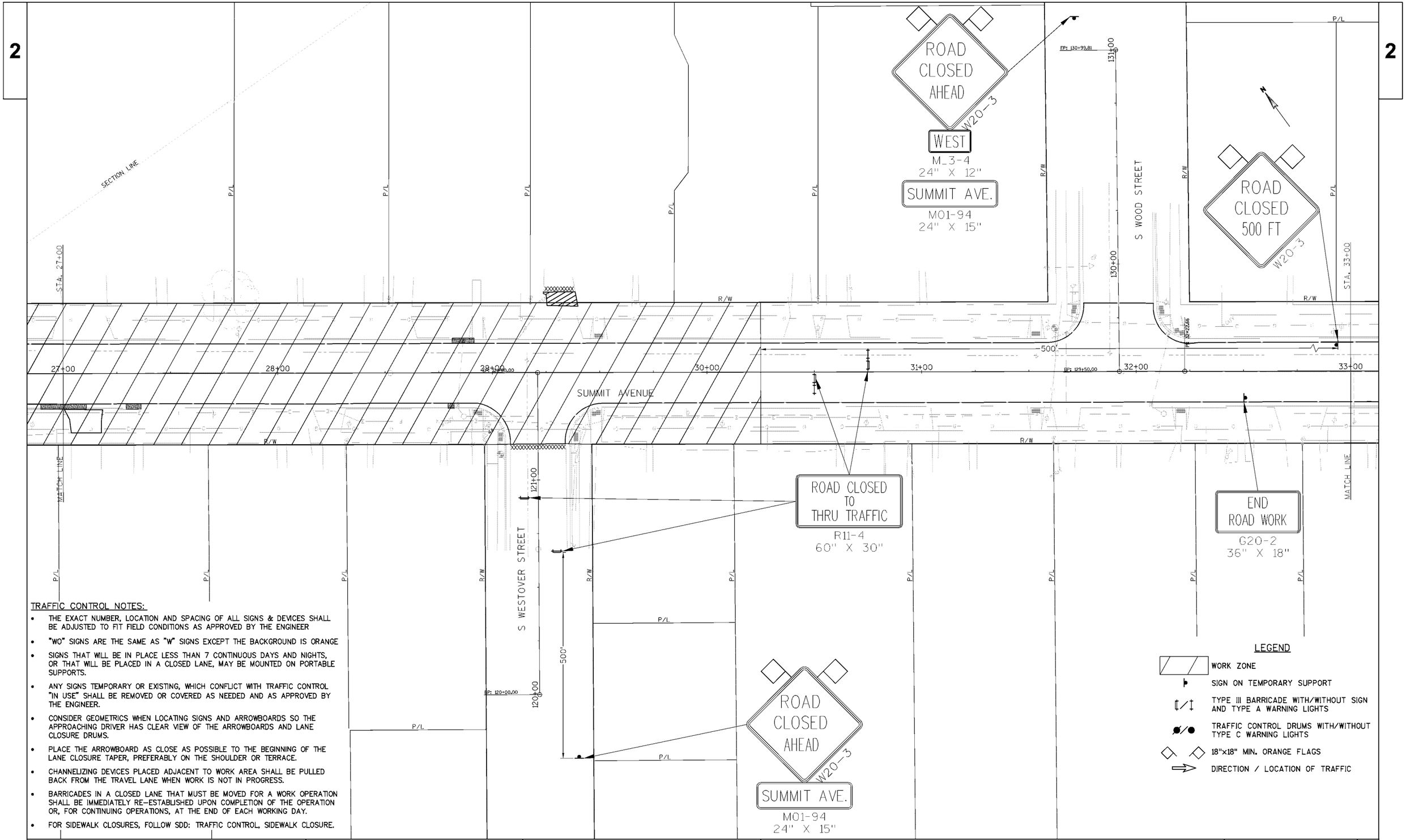
PROJECT NO: 2718-00-74	SUMMIT AVENUE	COUNTY: WAUKESHA	TRAFFIC CONTROL: STAGE 1	SHEET 40	E

2



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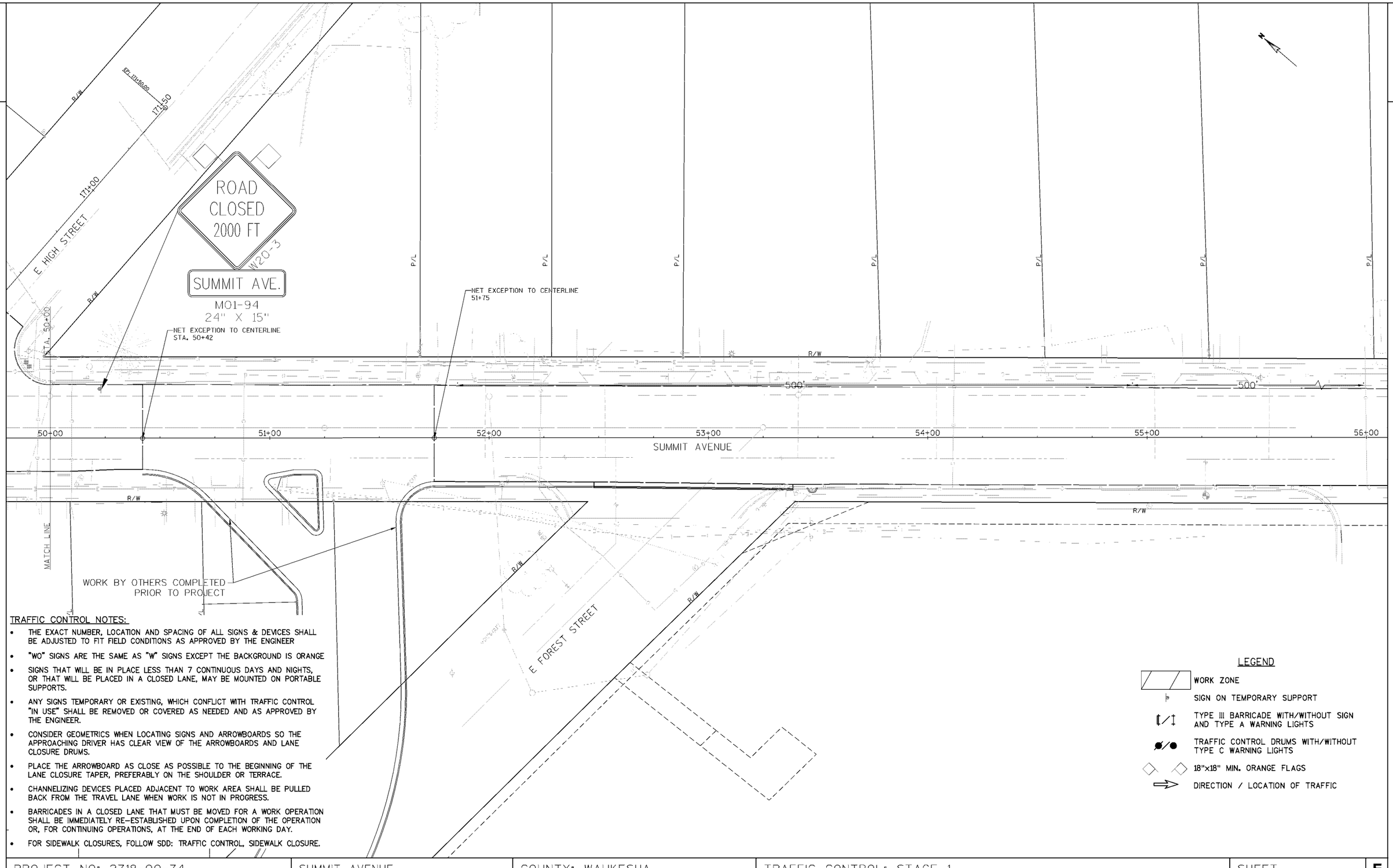
LEGEND

- WORK ZONE
- SIGN ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN AND TYPE A WARNING LIGHTS
- TRAFFIC CONTROL DRUMS WITH/WITHOUT TYPE C WARNING LIGHTS
- 18"x18" MIN. ORANGE FLAGS
- DIRECTION / LOCATION OF TRAFFIC

PROJECT NO: 2718-00-74	SUMMIT AVENUE	COUNTY: WAUKESHA	TRAFFIC CONTROL: STAGE 1	SHEET 41	E

2



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LEGEND

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- TRAFFIC CONTROL DRUMS WITH/WITHOUT TYPE C WARNING LIGHTS
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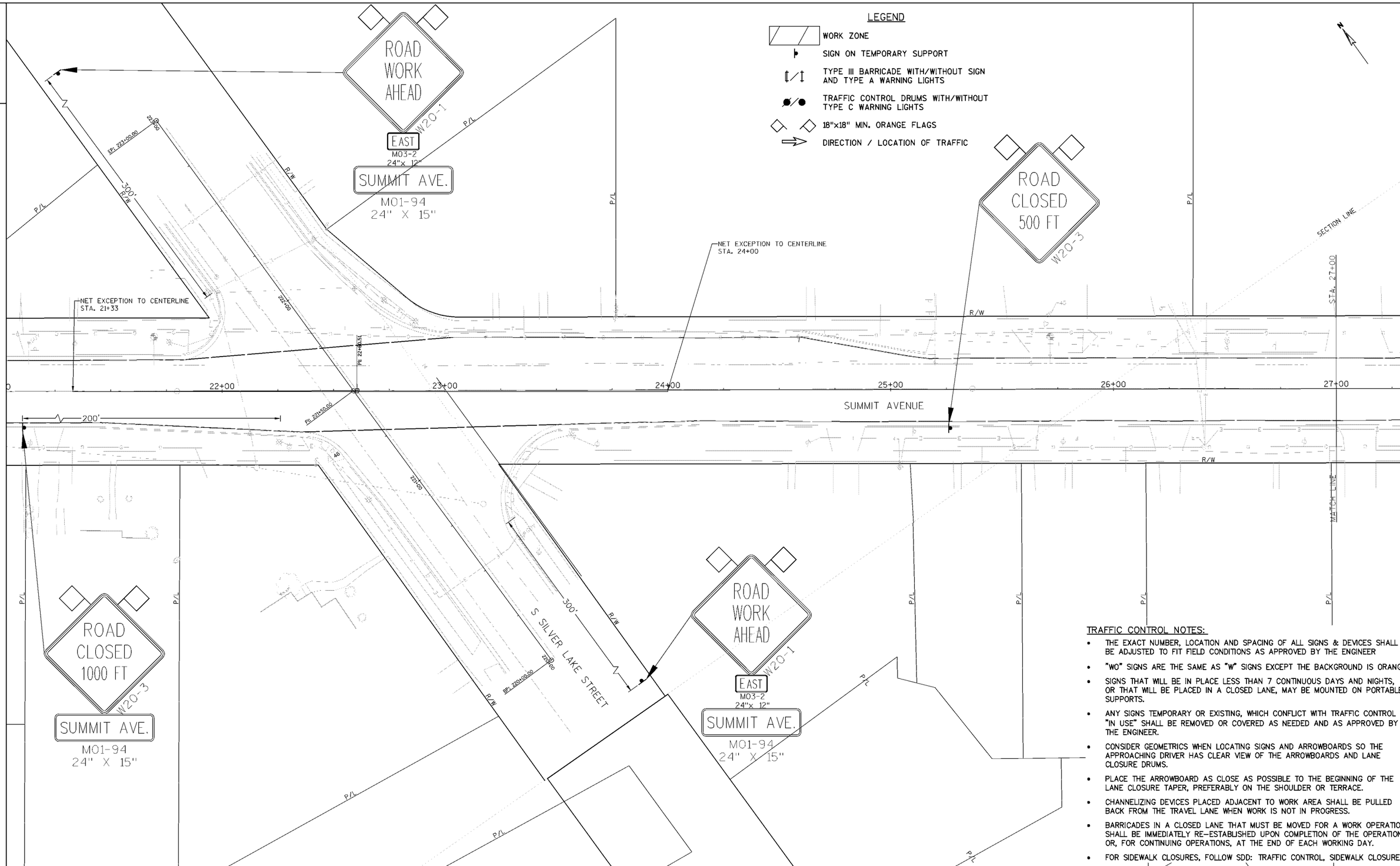
- DIRECTION / LOCATION OF TRAFFIC

PROJECT NO: 2718-00-74	SUMMIT AVENUE	COUNTY: WAUKESHA	TRAFFIC CONTROL: STAGE 1	SHEET 42	E



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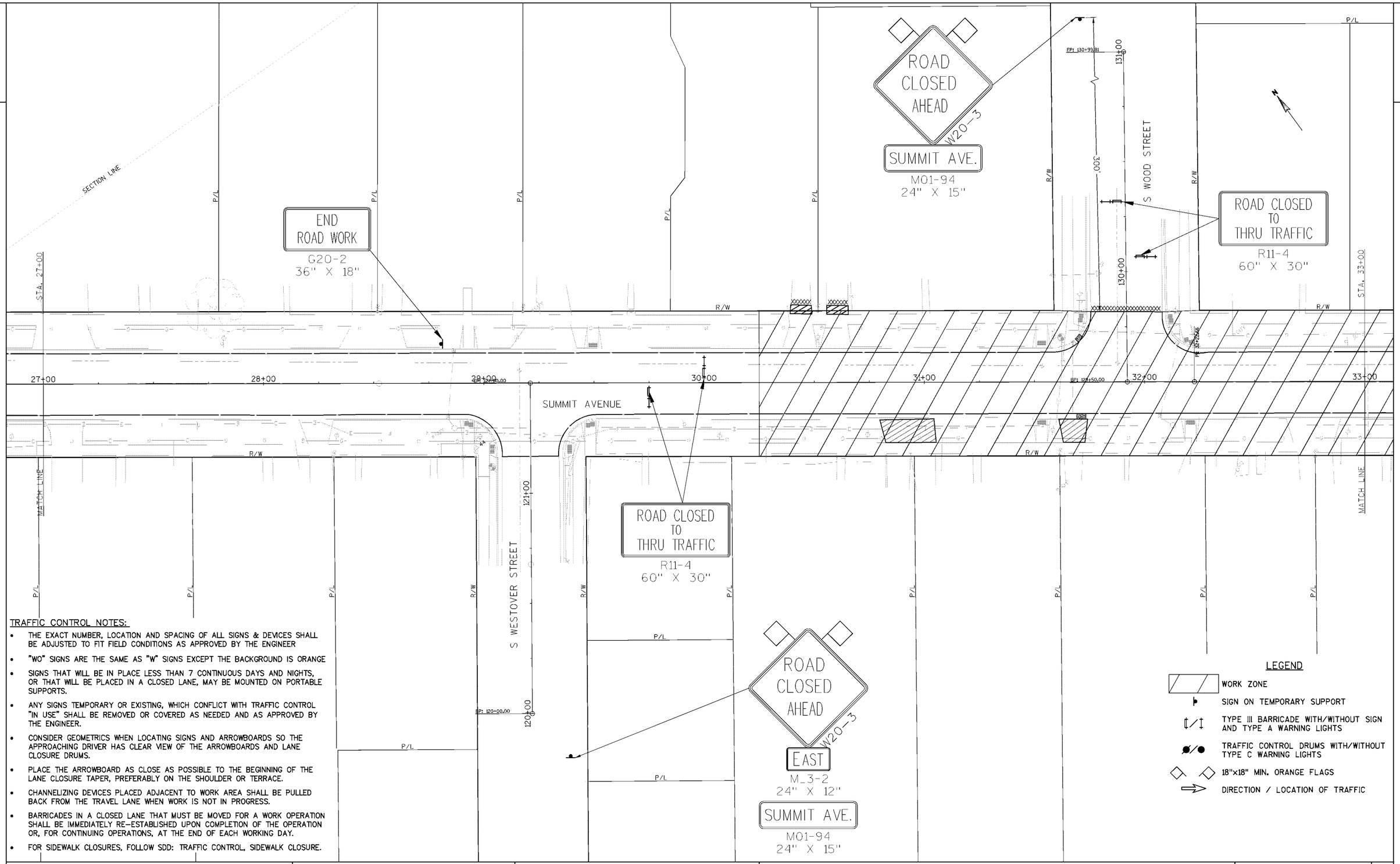
PROJECT NO: 2718-00-74	SUMMIT AVENUE	COUNTY: WAUKESHA	TRAFFIC CONTROL: STAGE 2	SHEET 43	E

2



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LEGEND

- WORK ZONE
- SIGN ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN AND TYPE A WARNING LIGHTS
- TRAFFIC CONTROL DRUMS WITH/WITHOUT TYPE C WARNING LIGHTS
- 18"x18" MIN. ORANGE FLAGS
- DIRECTION / LOCATION OF TRAFFIC

PROJECT NO: 2718-00-74	SUMMIT AVENUE	COUNTY: WAUKESHA	TRAFFIC CONTROL: STAGE 2	SHEET 44	E

2

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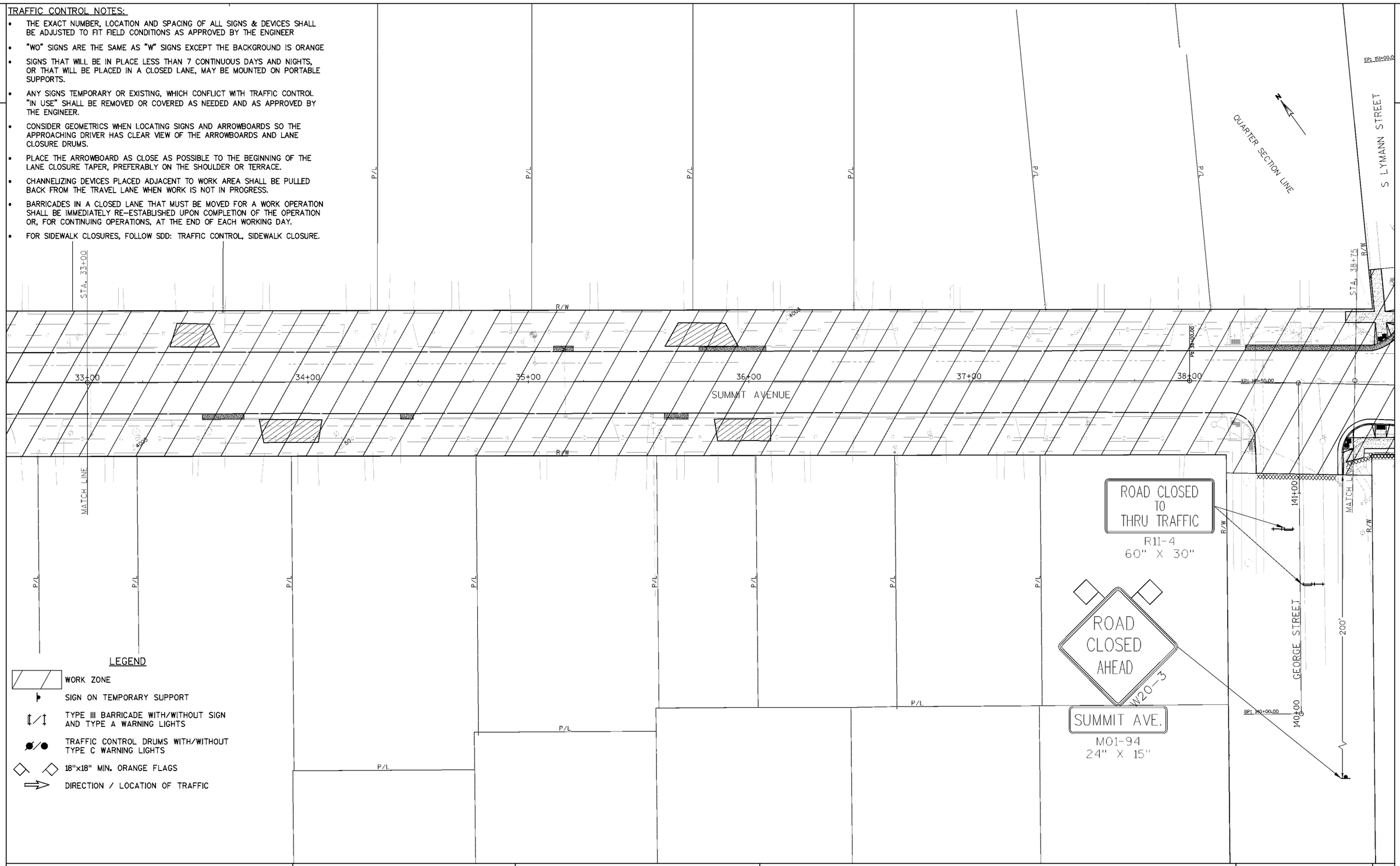
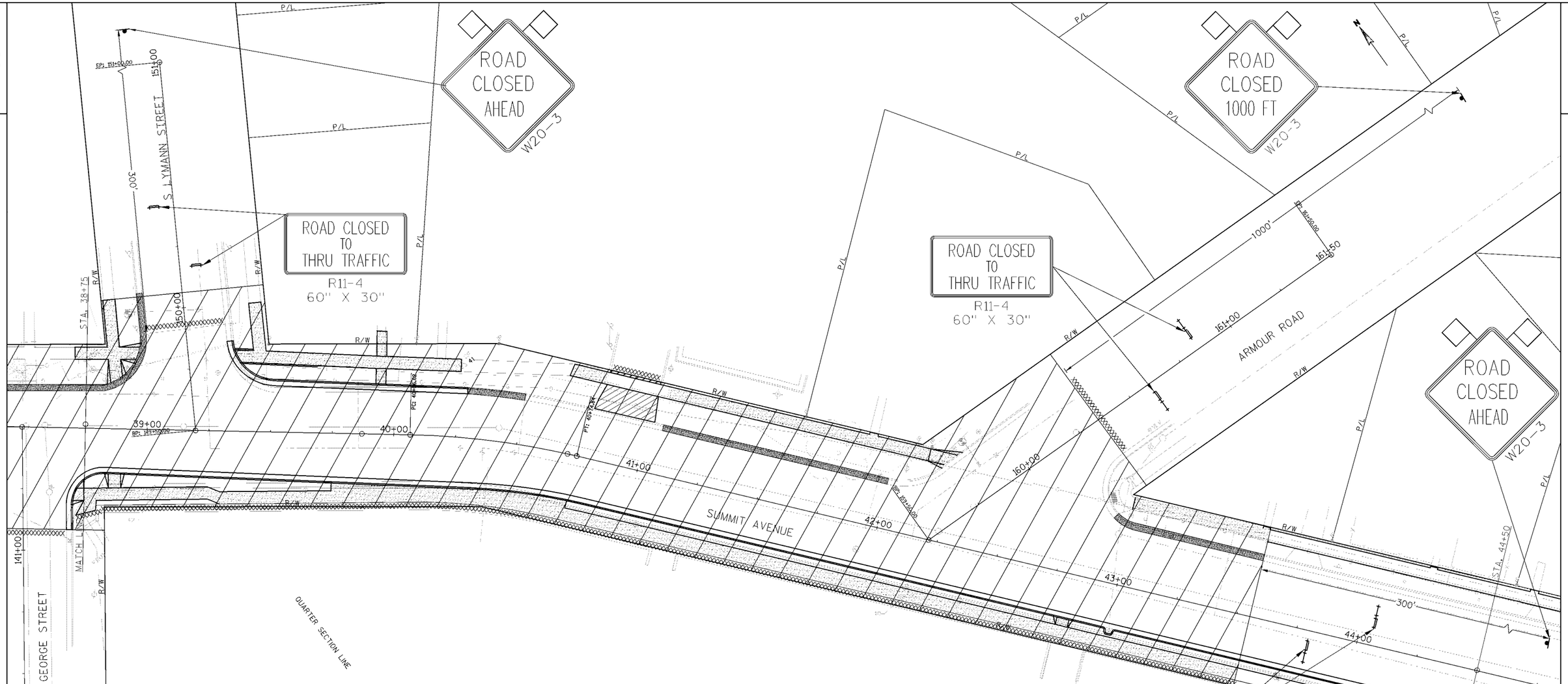


LEGEND

- WORK ZONE
- SIGN ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN AND TYPE A WARNING LIGHTS
- TRAFFIC CONTROL DRUMS WITH/WITHOUT TYPE C WARNING LIGHTS
- 18"x18" MIN. ORANGE FLAGS
- DIRECTION / LOCATION OF TRAFFIC

PROJECT NO: 2718-00-74 32	SUMMIT AVENUE	COUNTY: WAUKESHA	TRAFFIC CONTROL: STAGE 2	SHEET 45	E

2



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LEGEND

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- TRAFFIC CONTROL DRUMS WITH/WITHOUT TYPE C WARNING LIGHTS
- 18"x18" MIN. ORANGE FLAGS
- DIRECTION / LOCATION OF TRAFFIC

PROJECT NO: 2718-00-74	SUMMIT AVENUE	COUNTY: WAUKESHA	TRAFFIC CONTROL: STAGE 2	SHEET 46	E

2

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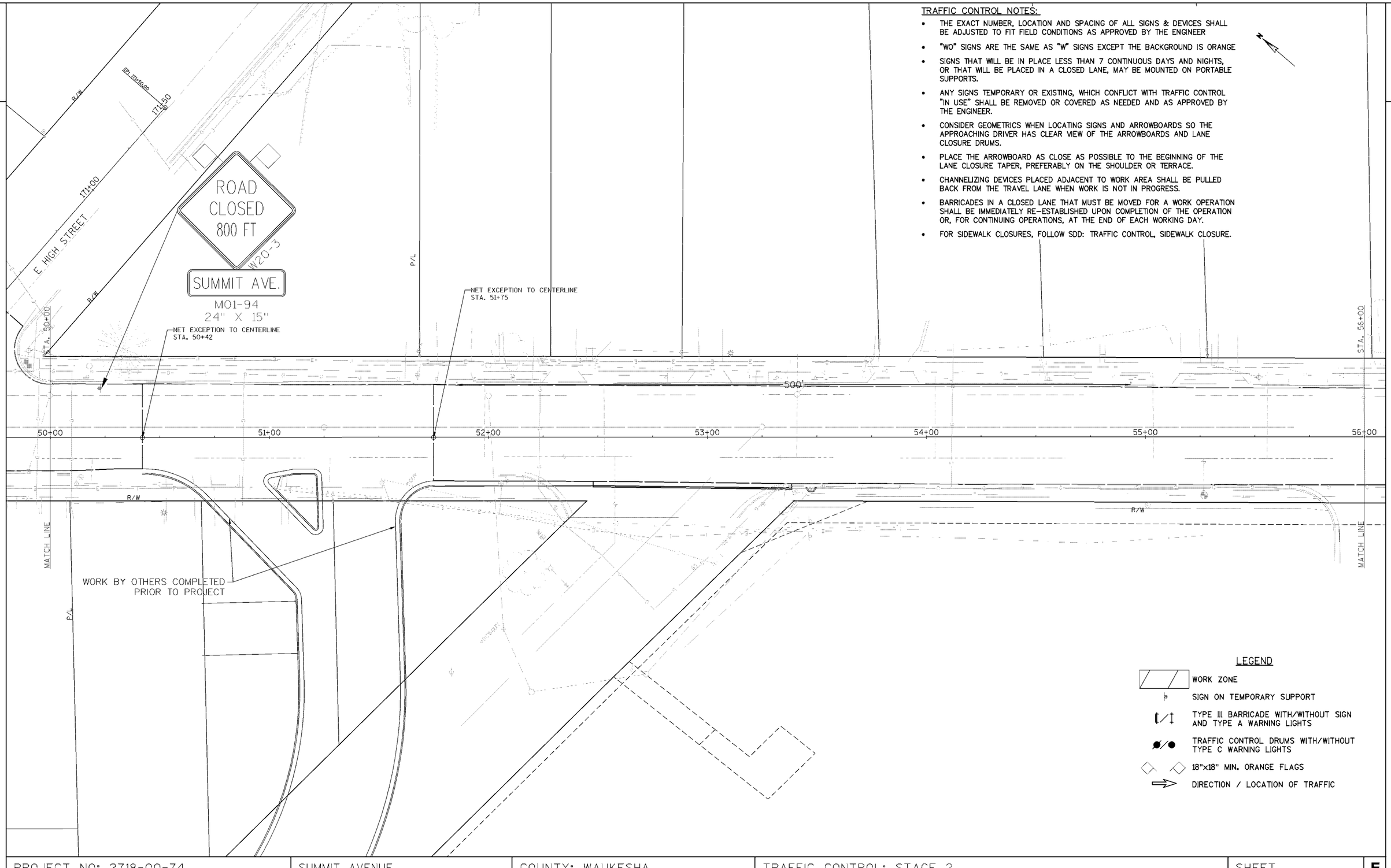

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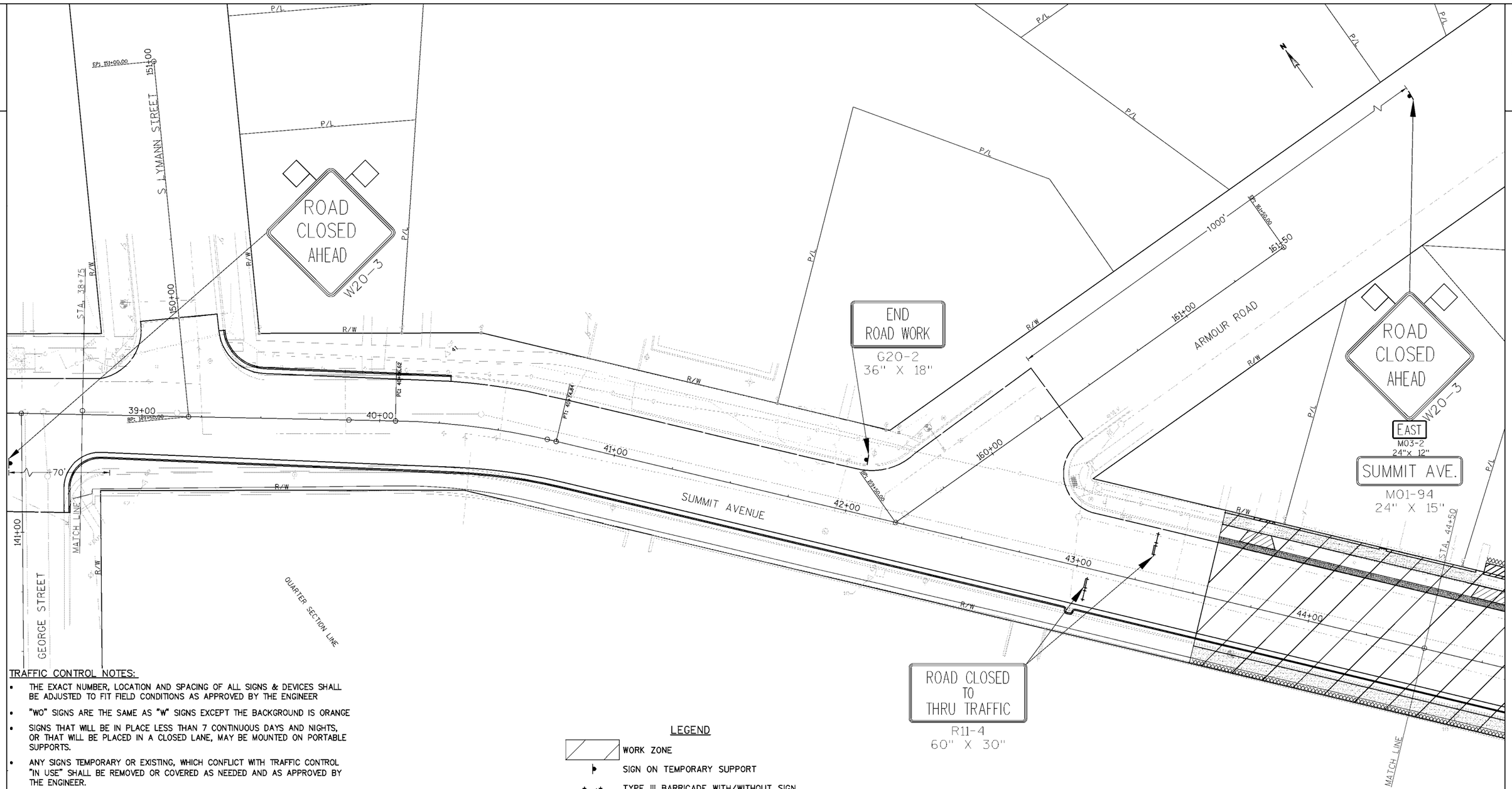
PROJECT NO: 2718-00-74	SUMMIT AVENUE	COUNTY: WAUKESHA	TRAFFIC CONTROL: STAGE 2	SHEET 47	E

2



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PROJECT NO: 2718-00-74	SUMMIT AVENUE	COUNTY: WAUKESHA	TRAFFIC CONTROL: STAGE 3	SHEET 48	E

2

ARMOUR ROAD

P/L

ROAD CLOSED AHEAD
W20-3

LEGEND

- WORK ZONE
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- TYPE III BARRICADE WITH/WITHOUT SIGN AND TYPE A WARNING LIGHTS
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- DIRECTION / LOCATION OF TRAFFIC

ROAD CLOSED TO THRU TRAFFIC
R11-4
60" X 30"

580'

171+00

E. HIGH STREET

R/W

STA. 44+50

170+00

STA. 50+00

45+00

46+00

47+00

48+00

49+00

50+00

SUMMIT AVENUE

MATCH LINE

MATCH LINE

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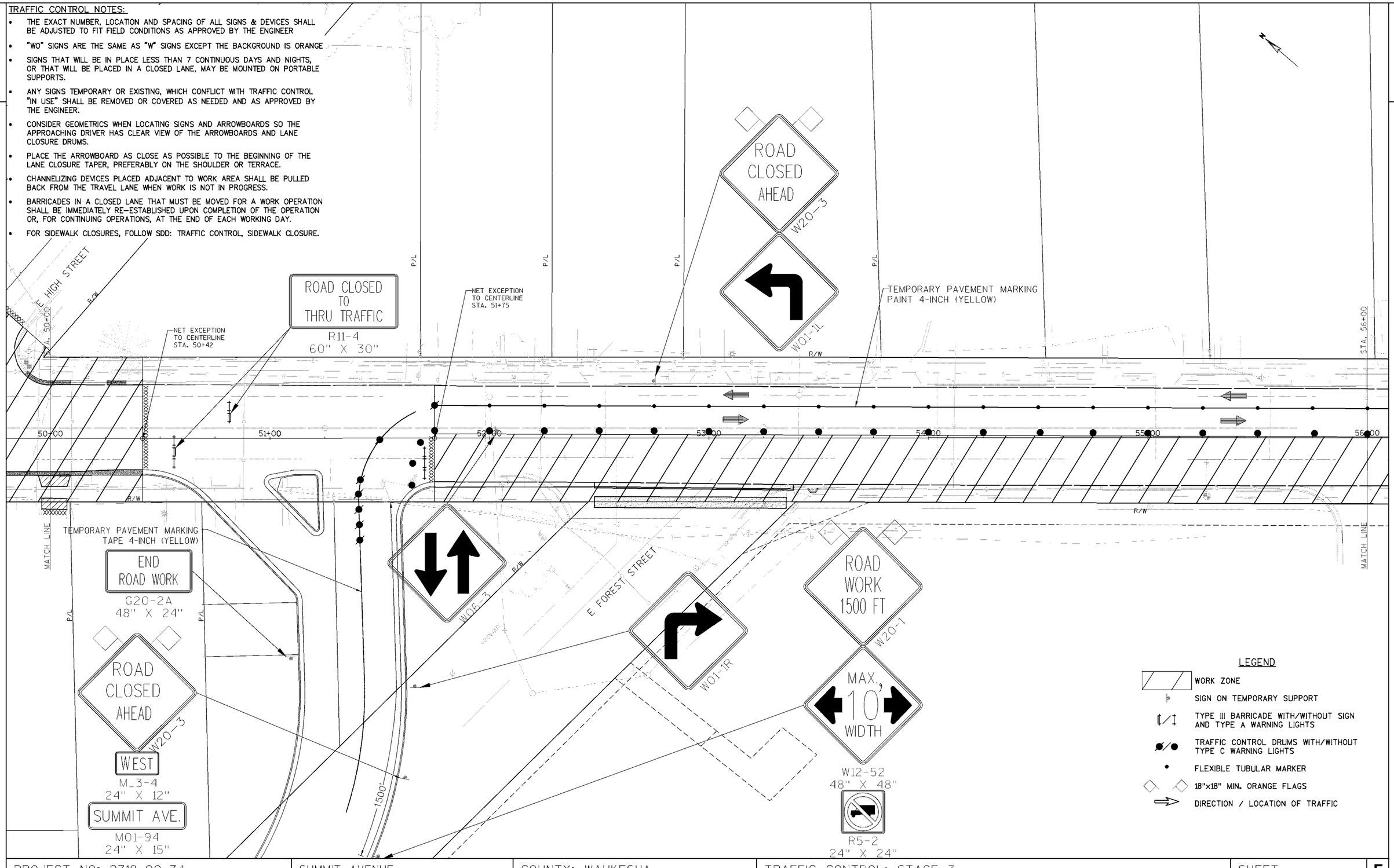
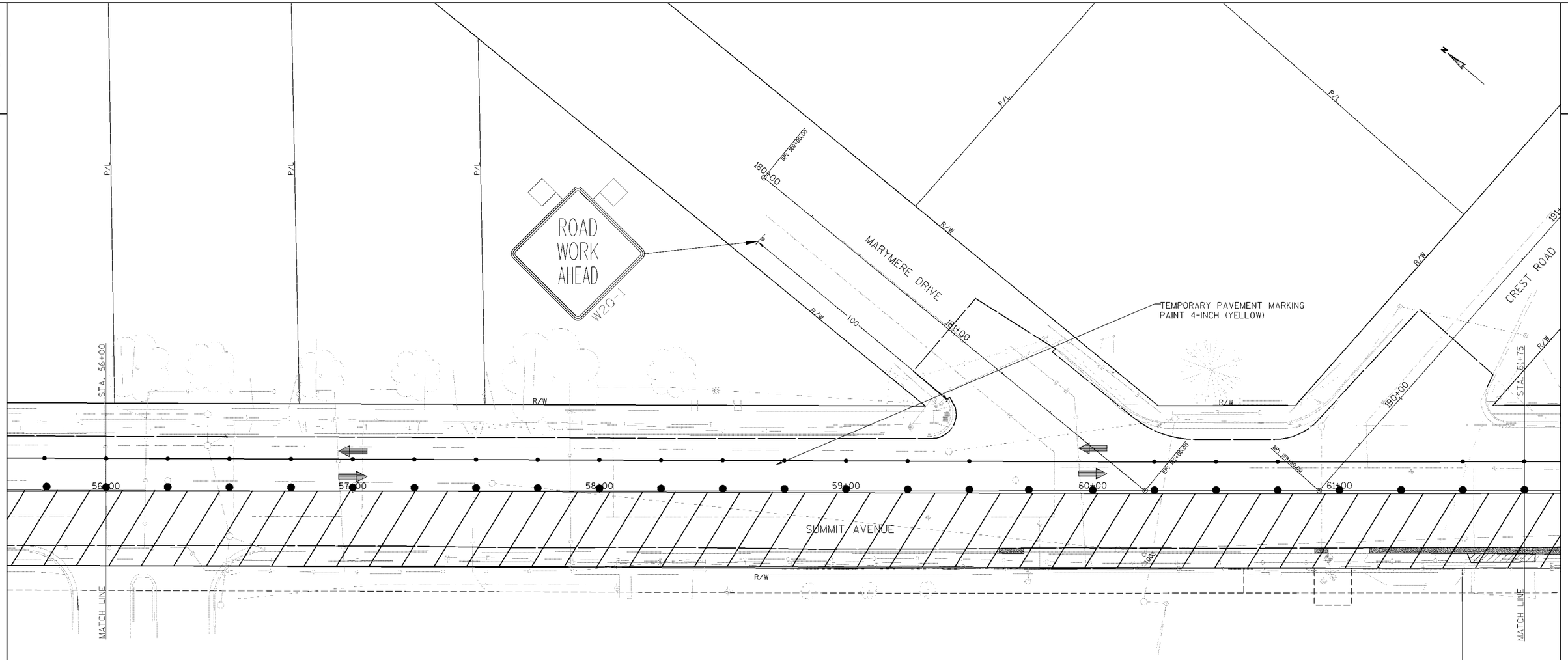


PROJECT NO: 2718-00-74	SUMMIT AVENUE	COUNTY: WAUKESHA	TRAFFIC CONTROL: STAGE 3	SHEET 50	E

2



TRAFFIC CONTROL NOTES:

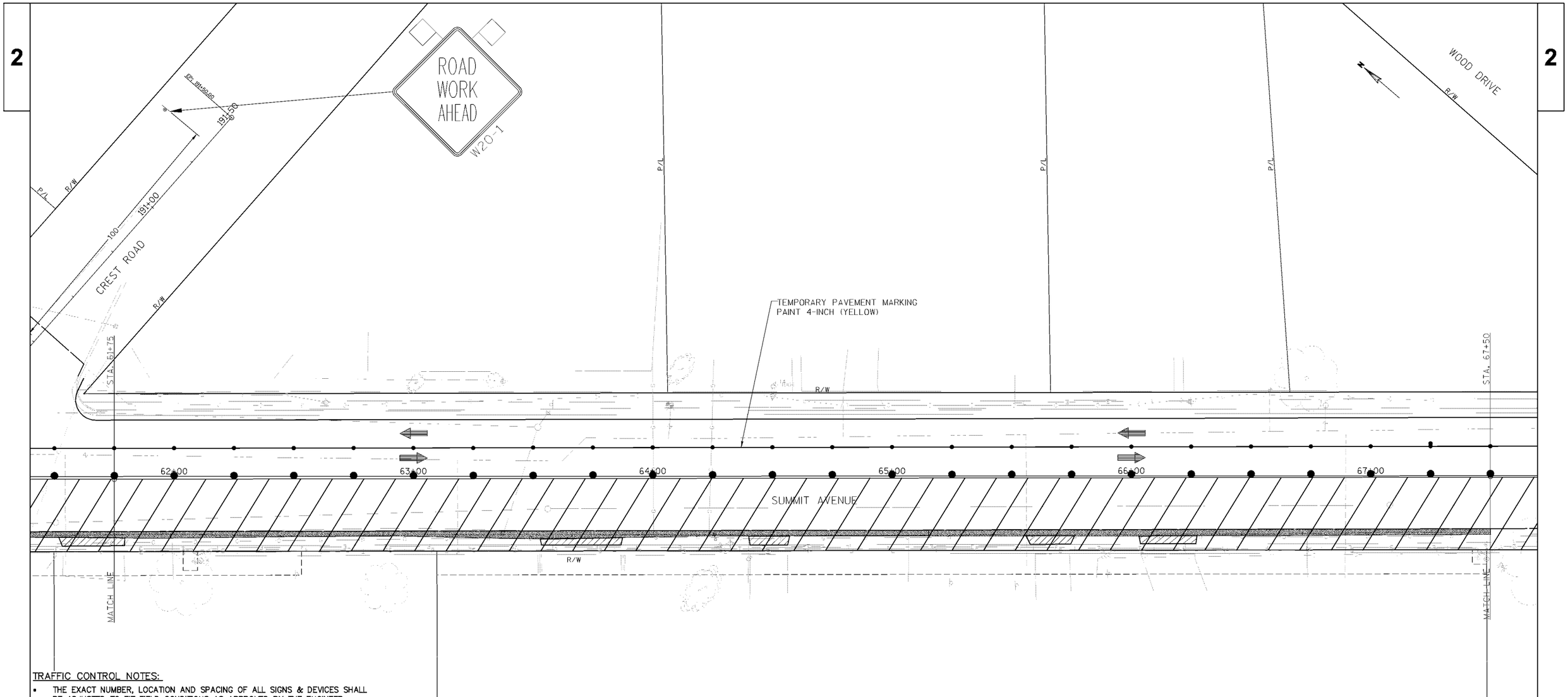
- THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS & DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER
- "WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE
- SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, OR THAT WILL BE PLACED IN A CLOSED LANE, MAY BE MOUNTED ON PORTABLE SUPPORTS.
- ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.
- CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROWBOARDS SO THE APPROACHING DRIVER HAS CLEAR VIEW OF THE ARROWBOARDS AND LANE CLOSURE DRUMS.
- PLACE THE ARROWBOARD AS CLOSE AS POSSIBLE TO THE BEGINNING OF THE LANE CLOSURE TAPER, PREFERABLY ON THE SHOULDER OR TERRACE.
- CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.
- BARRICADES IN A CLOSED LANE THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION OR, FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.
- FOR SIDEWALK CLOSURES, FOLLOW SDD: TRAFFIC CONTROL, SIDEWALK CLOSURE.

LEGEND

- WORK ZONE
- SIGN ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN AND TYPE A WARNING LIGHTS
- TRAFFIC CONTROL DRUMS WITH/WITHOUT TYPE C WARNING LIGHTS
- FLEXIBLE TUBULAR MARKER
- 18"x18" MIN. ORANGE FLAGS
- DIRECTION / LOCATION OF TRAFFIC

PROJECT NO: 2718-00-74	SUMMIT AVENUE	COUNTY: WAUKESHA	TRAFFIC CONTROL: STAGE 3	SHEET 51	E

2



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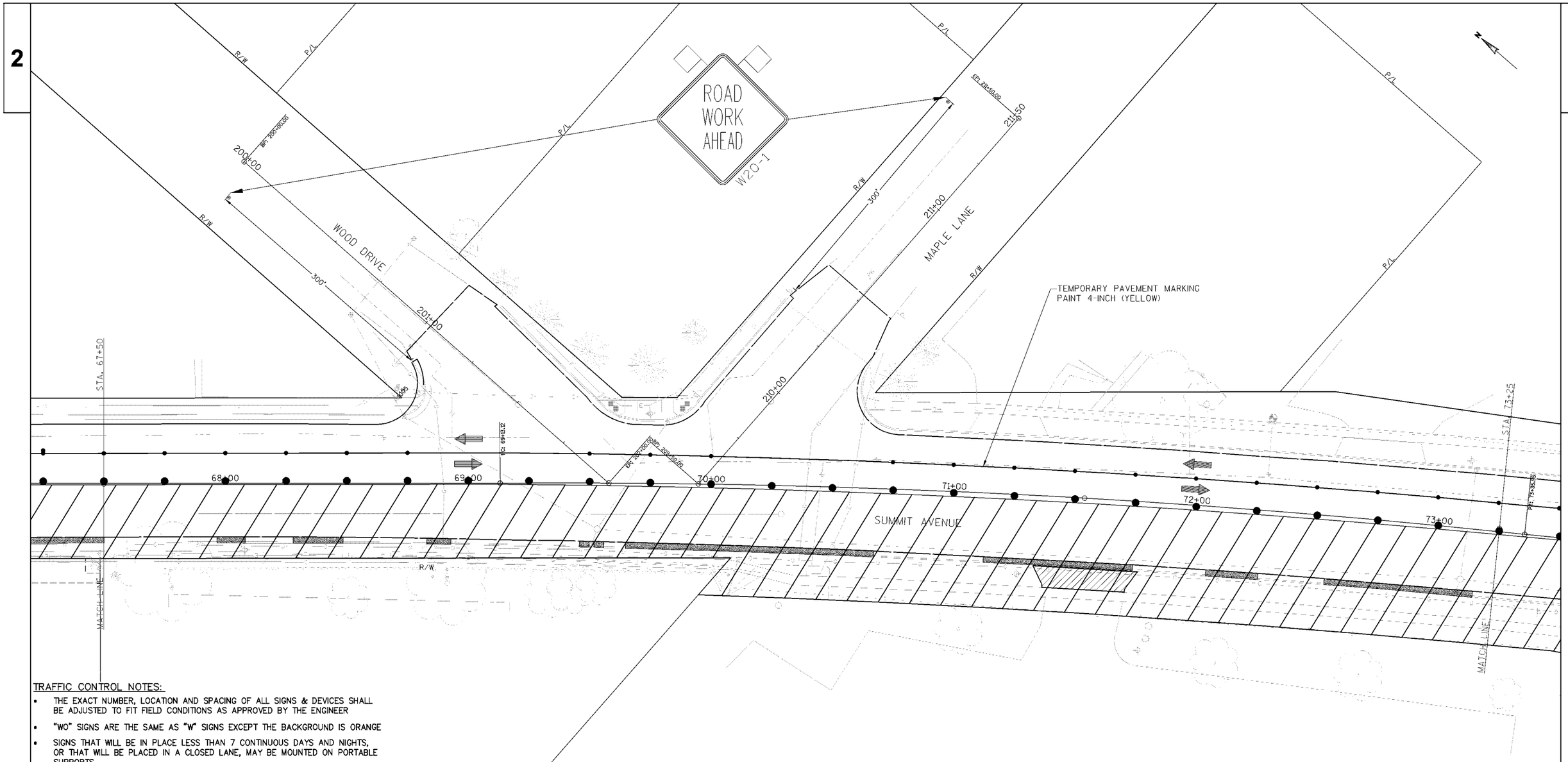
LEGEND

- WORK ZONE
- SIGN ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN AND TYPE A WARNING LIGHTS
- TRAFFIC CONTROL DRUMS WITH/WITHOUT TYPE C WARNING LIGHTS
- FLEXIBLE TUBULAR MARKER
- 18"x18" MIN. ORANGE FLAGS
- DIRECTION / LOCATION OF TRAFFIC

PROJECT NO: 2718-00-74	SUMMIT AVENUE	COUNTY: WAUKESHA	TRAFFIC CONTROL: STAGE 3	SHEET 52	E

2



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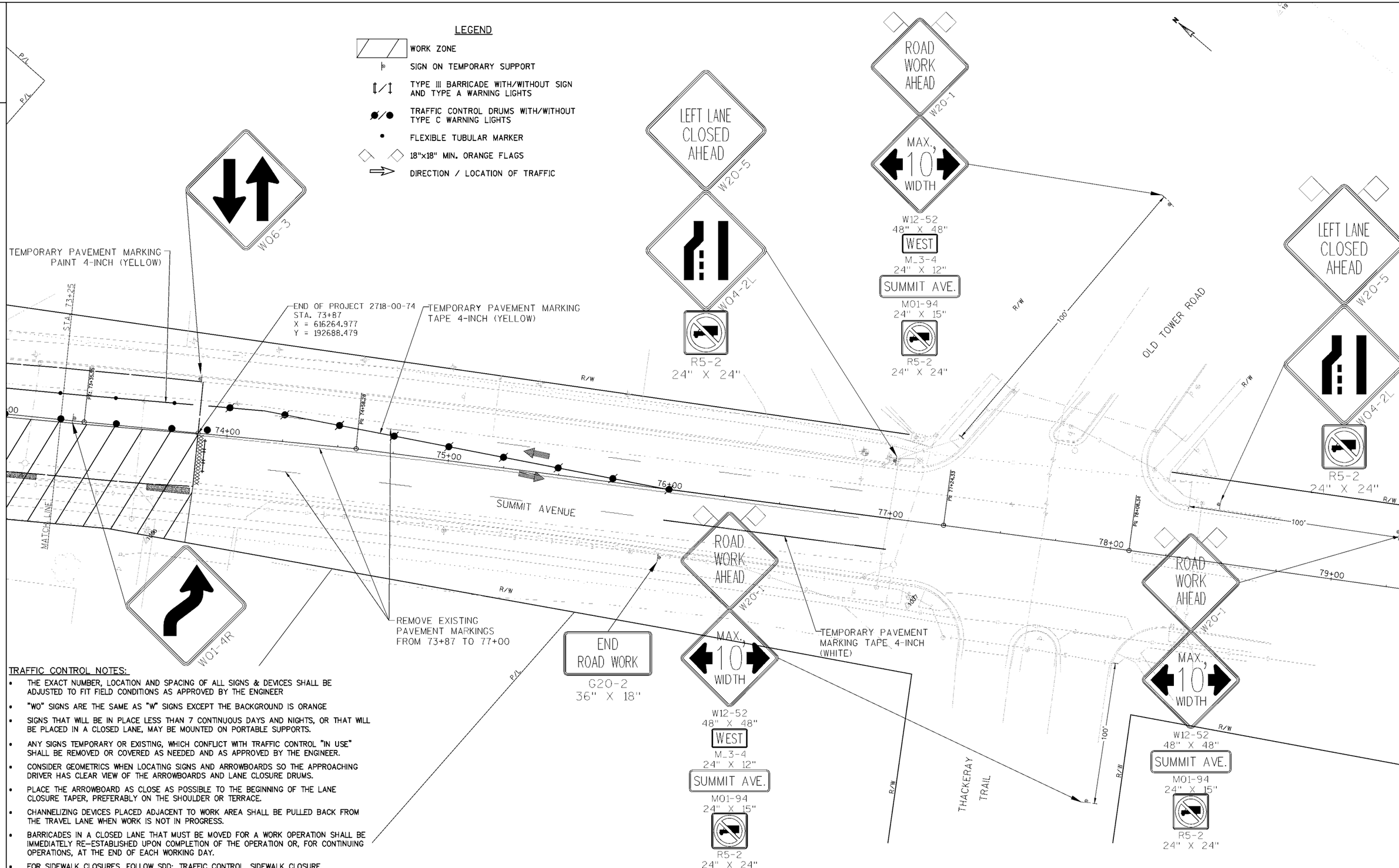
LEGEND

- WORK ZONE
- SIGN ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN AND TYPE A WARNING LIGHTS
- TRAFFIC CONTROL DRUMS WITH/WITHOUT TYPE C WARNING LIGHTS
- 18"x18" MIN. ORANGE FLAGS
- DIRECTION / LOCATION OF TRAFFIC

PROJECT NO: 2718-00-74	SUMMIT AVENUE	COUNTY: WAUKESHA	TRAFFIC CONTROL: STAGE 3	SHEET 53	E



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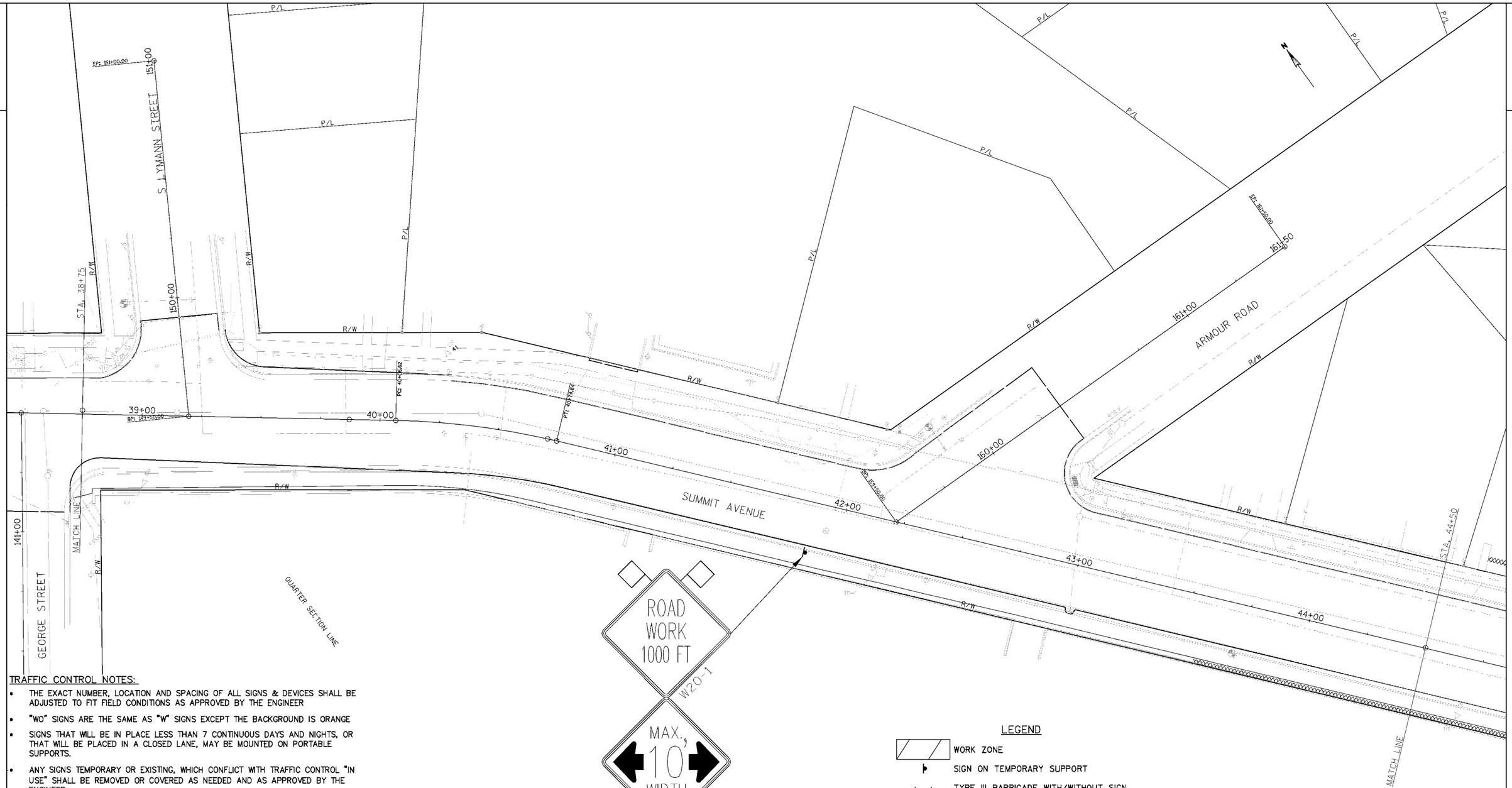
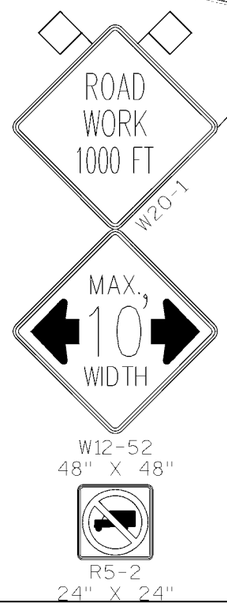
PROJECT NO: 2718-00-74	SUMMIT AVENUE	COUNTY: WAUKESHA	TRAFFIC CONTROL: STAGE 3	SHEET 54	E

2





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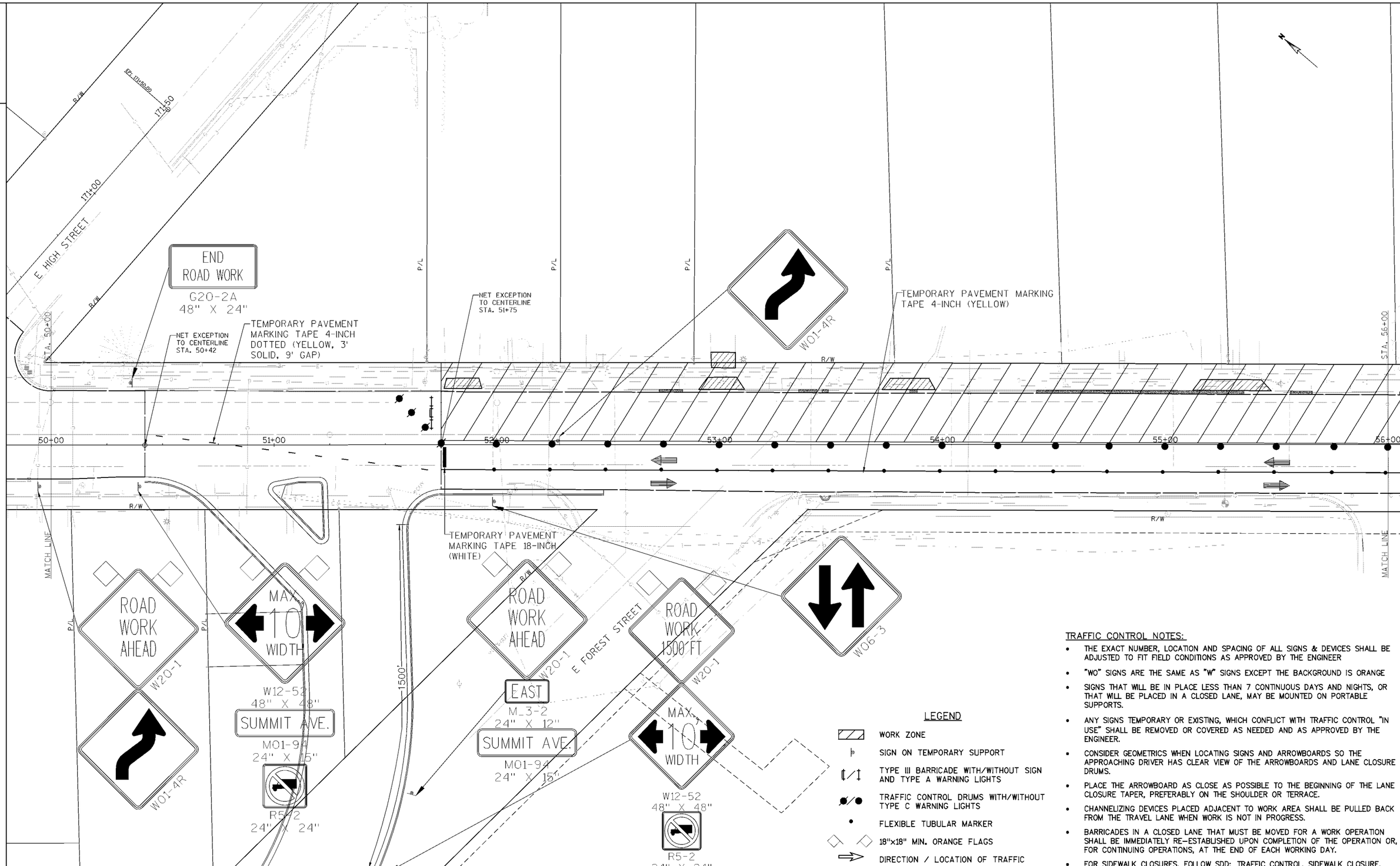
- FOR SIDEWALK CLOSURES, FOLLOW SDD: TRAFFIC CONTROL, SIDEWALK CLOSURE.

LEGEND

- WORK ZONE
- SIGN ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN AND TYPE A WARNING LIGHTS
- TRAFFIC CONTROL DRUMS WITH/WITHOUT TYPE C WARNING LIGHTS
- 18"x18" MIN. ORANGE FLAGS
- DIRECTION / LOCATION OF TRAFFIC

PROJECT NO: 2718-00-74	SUMMIT AVENUE	COUNTY: WAUKESHA	TRAFFIC CONTROL: STAGE 4	SHEET 55	E



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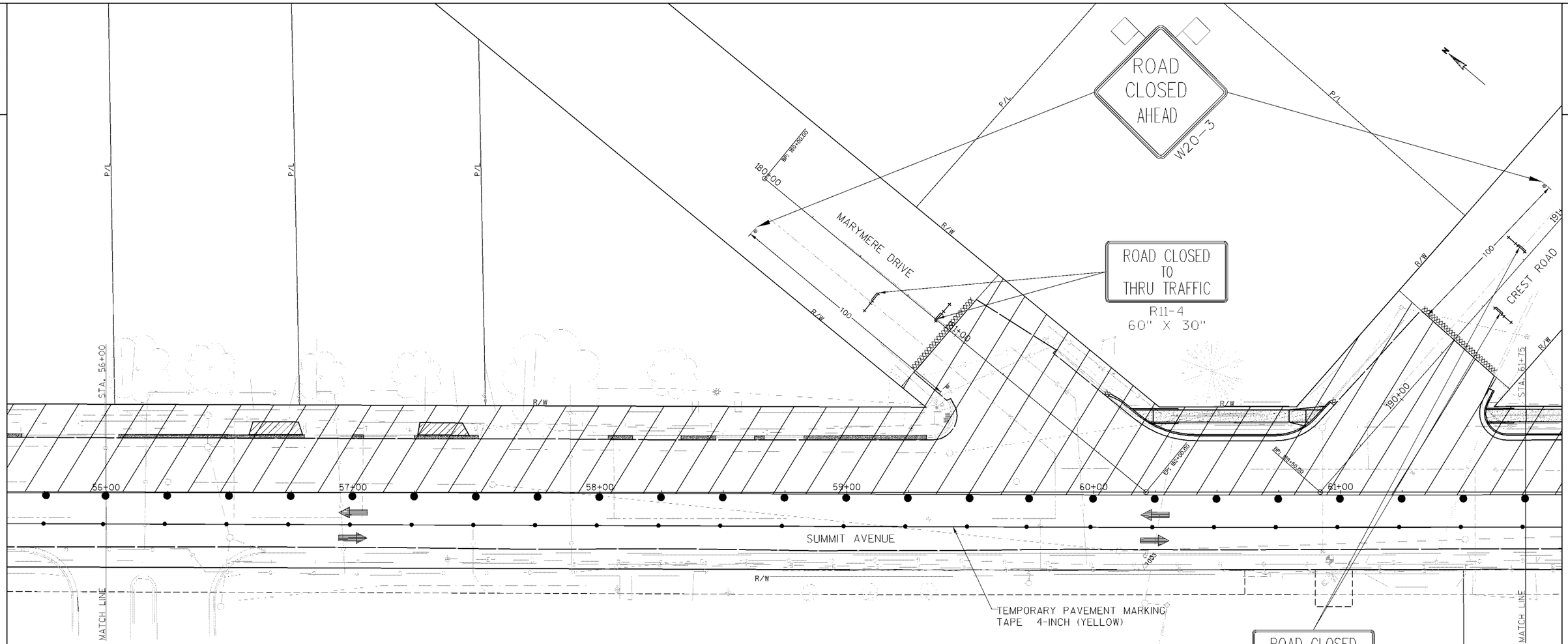
- FOR SIDEWALK CLOSURES, FOLLOW SDD: TRAFFIC CONTROL, SIDEWALK CLOSURE.

PROJECT NO: 2718-00-74	SUMMIT AVENUE	COUNTY: WAUKESHA	TRAFFIC CONTROL: STAGE 4	SHEET 56	E

2



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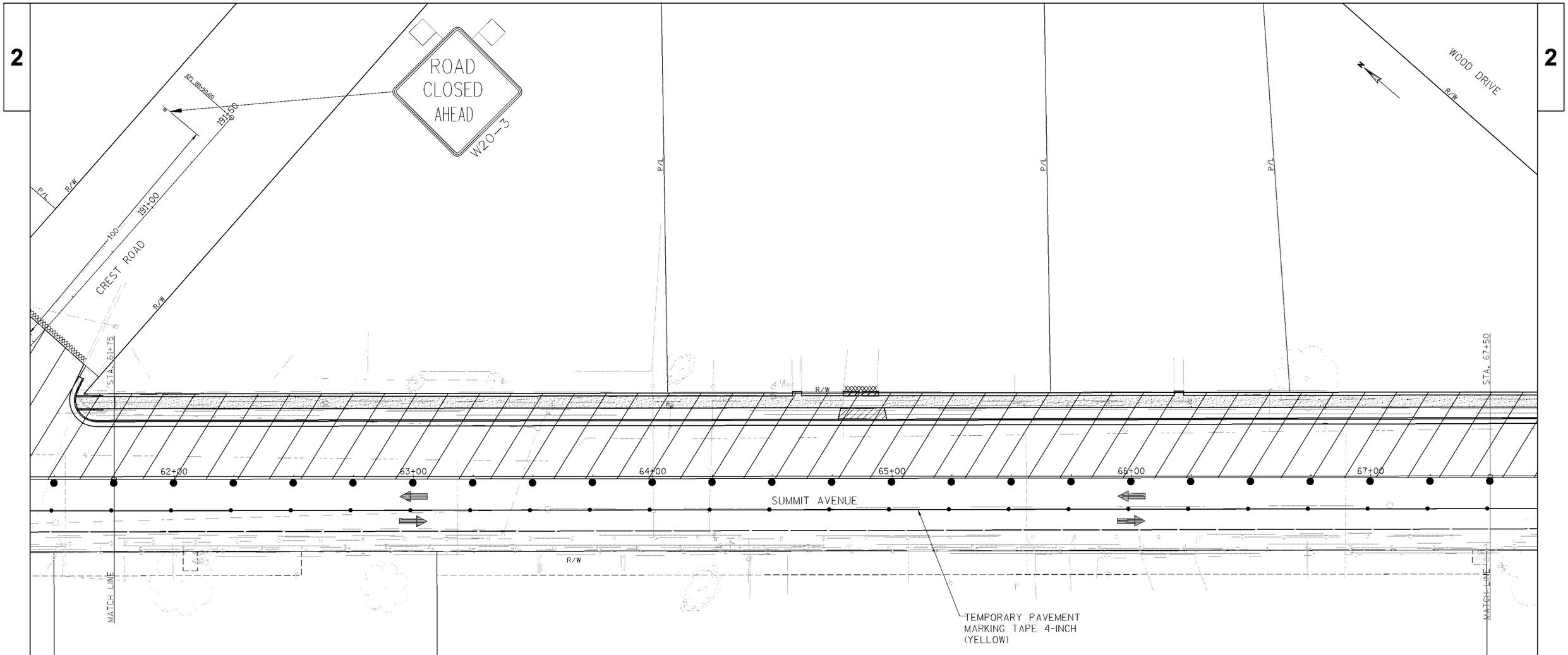
LEGEND

- WORK ZONE
- SIGN ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN AND TYPE A WARNING LIGHTS
- TRAFFIC CONTROL DRUMS WITH/WITHOUT TYPE C WARNING LIGHTS
- FLEXIBLE TUBULAR MARKER
- 18"x18" MIN. ORANGE FLAGS
- DIRECTION / LOCATION OF TRAFFIC

PROJECT NO: 2718-00-74	SUMMIT AVENUE	COUNTY: WAUKESHA	TRAFFIC CONTROL: STAGE 4	SHEET 57	E



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LEGEND

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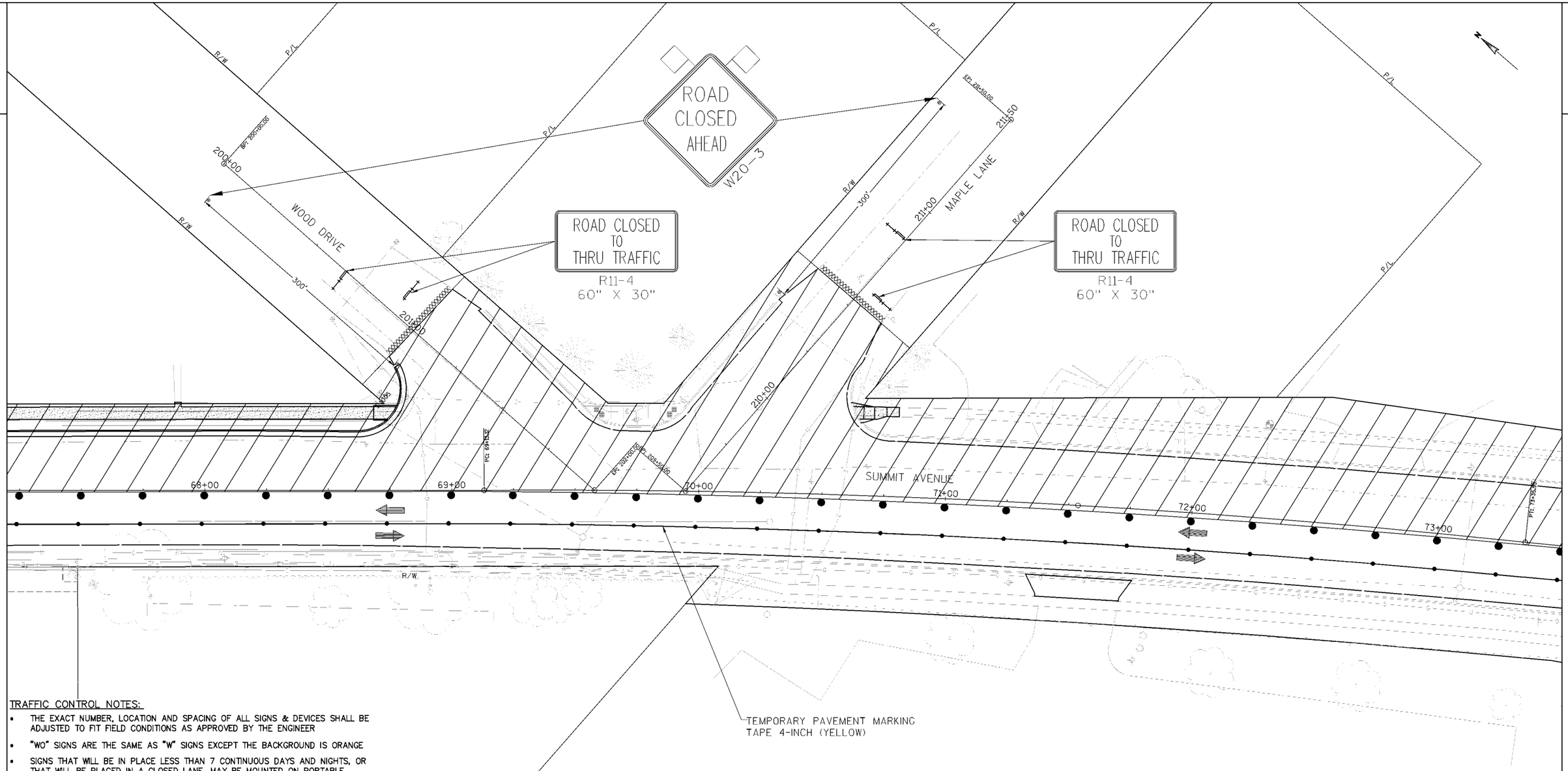
- DIRECTION / LOCATION OF TRAFFIC

PROJECT NO: 2718-00-74	SUMMIT AVENUE	COUNTY: WAUKESHA	TRAFFIC CONTROL: STAGE 4	SHEET 58	E

2



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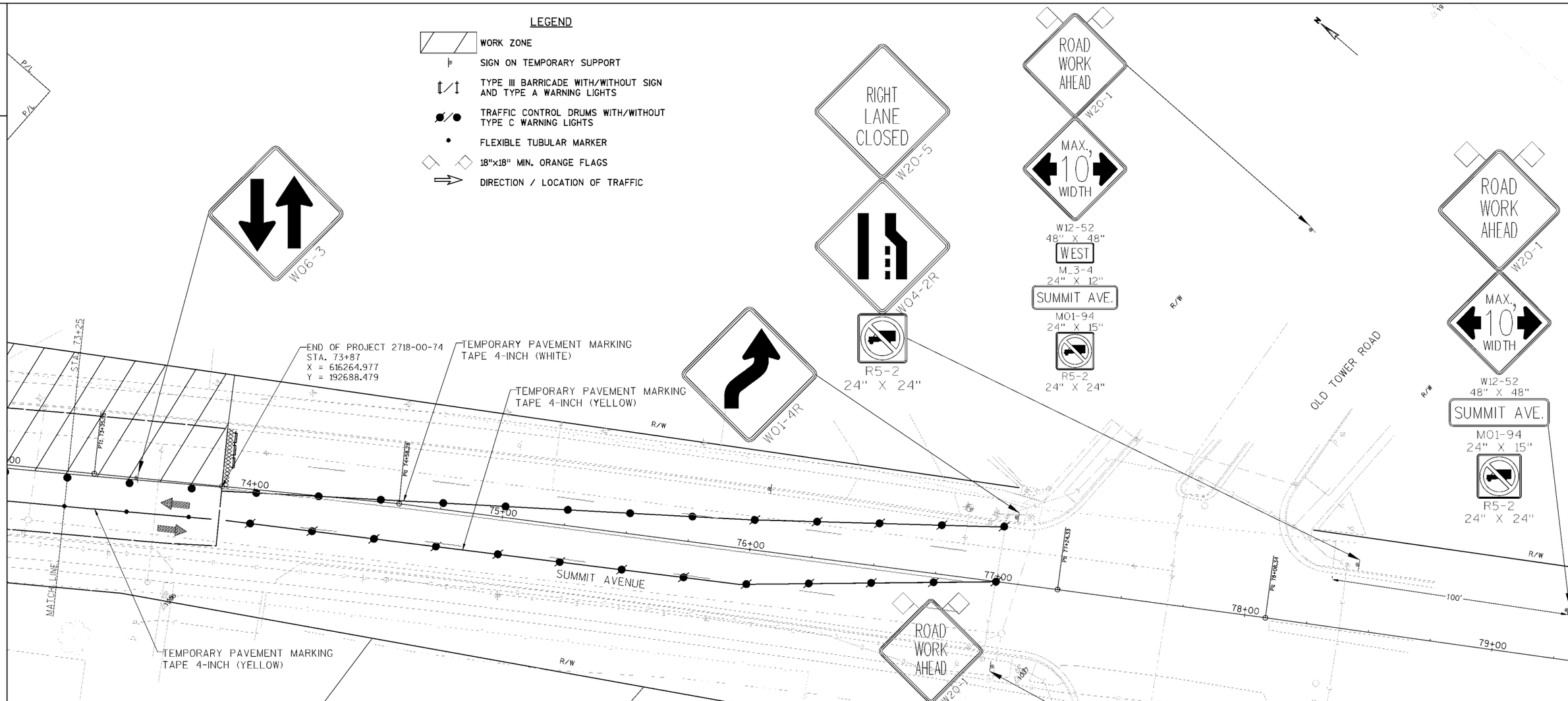
PROJECT NO: 2718-00-74	SUMMIT AVENUE	COUNTY: WAUKESHA	TRAFFIC CONTROL: STAGE 4	SHEET 59	E



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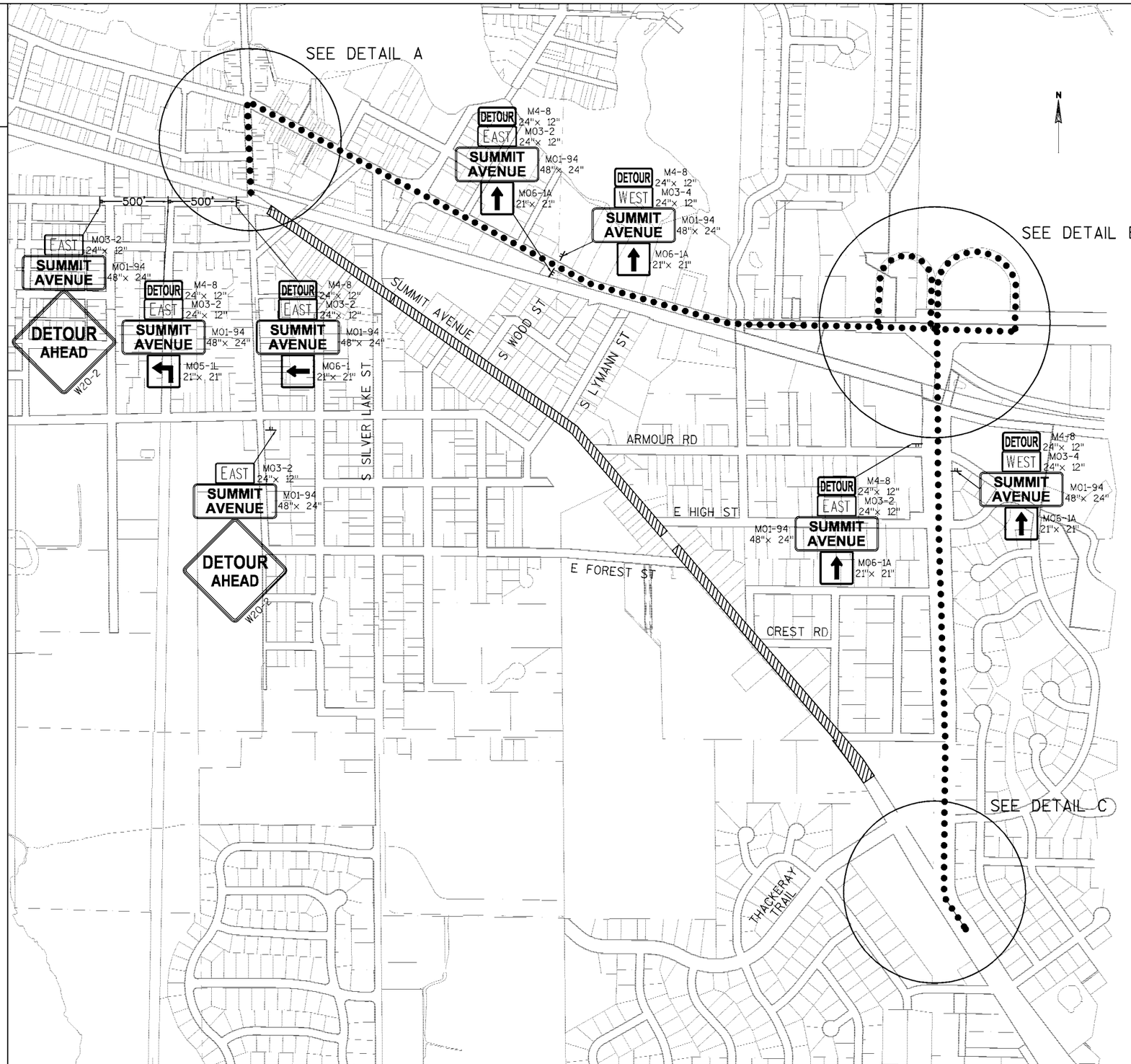
PROJECT NO: 2718-00-74	SUMMIT AVENUE	COUNTY: WAUKESHA	TRAFFIC CONTROL: STAGE 4	SHEET 60	E



TRAFFIC CONTROL NOTES

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ALL SIGNS INAPPROPRIATE TO THE STATUS OF THE CONTROL ZONE, INCLUDING PRE-EXISTING SIGNING IN THE VICINITY, SHALL BE COVERED OR REMOVED AS SPECIFIED IN THE PLANS AND/OR AS DIRECTED BY THE ENGINEER.

"WO" AND "W" SIGNS SHALL BE 48"x 48" UNLESS OTHERWISE NOTED.

ALL SIGNS SHALL HAVE REFLECTIVE FLUORESCENT DIAMOND GRADE SHEETING.

DRUMS OR BARRICADES SHALL BE USED TO DELINEATE LOCAL TRAFFIC AND/OR PROTECT HAZARDS IN THE WORK ZONE, SUCH AS EXPOSED MANHOLES OR DROP-OFFS FOR VEHICLES AND PEDESTRIANS. THE USE OF SUCH DEVICES SHALL BE INCIDENTAL TO THE OPERATION THAT CREATES THE HAZARD.

ALL M05 AND M06 ARROWS SHALL BE THE SAME AS "M" SIGNS EXCEPT THAT THE BACKGROUND IS ORANGE.

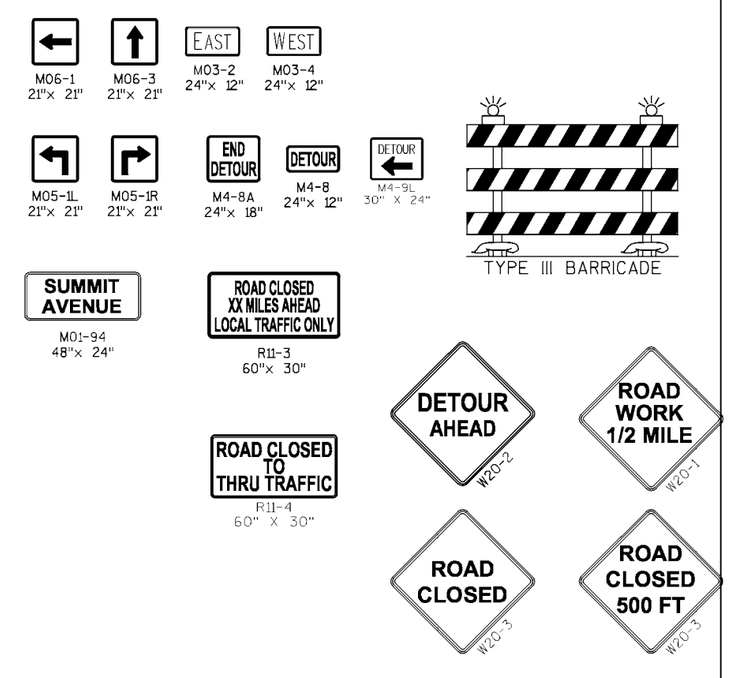
ALL M3 SERIES SIGNS (NORTH, EAST, SOUTH, WEST) WHICH ARE PART OF ANY DETOUR MARKER SIGNING ASSEMBLY OR ATTACHED TO ANY WARNING SIGNS SHALL BE BLACK LETTERING ON WHITE BACKGROUND.

CONTRACTOR TO SEE STANDARD DETAIL DRAWINGS FOR DETOUR SIGNING FOR MAINLINE CLOSURES.

SEE SDD: BARRICADES FOR MAIN LANES AND CLOSURES, BARRICADES AND SIGNS FOR ROADSIDE CLOSURES & TRAFFIC CONTROL, ADVANCED WARNING SIGNS 40 M.P.H. OR LESS TWO WAY UNDIVIDED ROAD OPEN TO TRAFFIC, FOR ADDITIONAL NOTES AND REQUIREMENTS FOR DETOUR SIGNING.

LEGEND

- WORK ZONE
- DETOUR ROUTE
- POST MOUNTED SIGN (NEW)
- POST/POLE MOUNTED SIGN (EXISTING)
- BARRICADE WITH SIGN
- 67 — NEW SIGN
- 67 — EXISTING SIGN
- 67 — EXISTING SIGN TO BE COVERED WITH BLANK ORANGE PANEL



PROJECT NO: 2718-00-74	SUMMIT AVENUE	COUNTY: WAUKESHA	DETOUR PLAN	SHEET 61	E

FILE NAME : G:\C3D\4792219\DWG\Z-053-DETOURPLAN-01.DWG PLOT DATE : 1/31/2014 9:11 AM PLOT BY : KLOSKOWSKI, CHRYSA PLOT NAME : PLOT SCALE : 400:1

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SEE SDD: BARRICADES FOR MAIN LANES AND CLOSURES, BARRICADES AND SIGNS FOR ROADSIDE CLOSURES & TRAFFIC CONTROL, ADVANCED WARNING SIGNS 40 M.P.H. OR LESS TWO WAY UNDIVIDED ROAD OPEN TO TRAFFIC, FOR ADDITIONAL NOTES AND REQUIREMENTS FOR DETOUR SIGNING.

LEGEND

- WORK ZONE
- DETOUR ROUTE
- POST MOUNTED SIGN (NEW)
- POST/POLE MOUNTED SIGN (EXISTING)
- BARRICADE WITH SIGN
- 67 — NEW SIGN
- 67 — EXISTING SIGN
- 67 — EXISTING SIGN TO BE COVERED WITH BLANK ORANGE PANEL

M06-1 21"x 21" · M06-3 21"x 21" · EAST M03-2 24"x 12" · WEST M03-4 24"x 12"

M05-1L 21"x 21" · M05-1R 21"x 21" · END DETOUR M4-8A 24"x 18" · DETOUR M4-8 24"x 12" · DETOUR M4-9L 30" X 24"

TYPE III BARRICADE

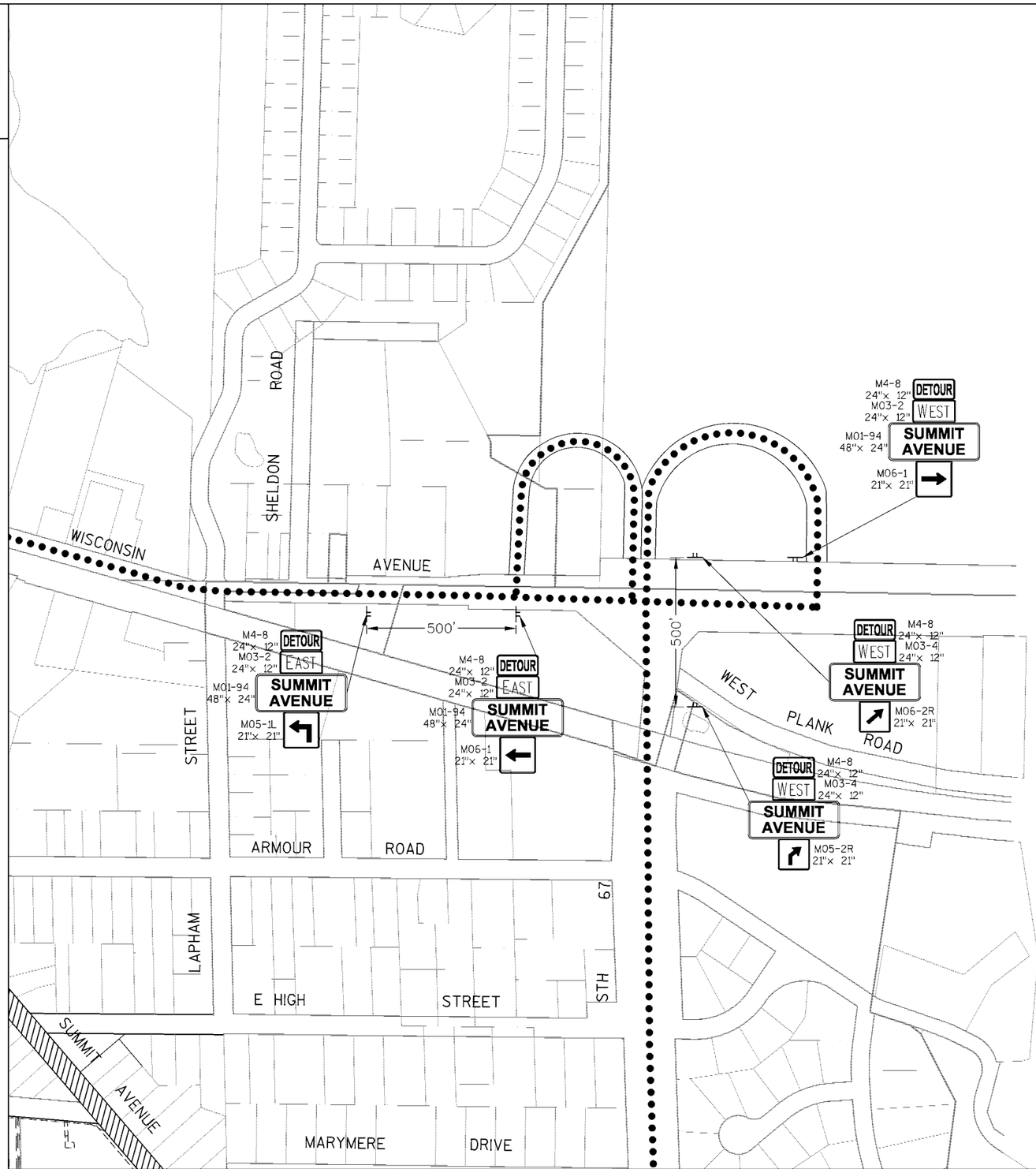
SUMMIT AVENUE M01-94 48"x 24"

ROAD CLOSED XX MILES AHEAD LOCAL TRAFFIC ONLY R11-3 60"x 30"

ROAD CLOSED TO THRU TRAFFIC R11-4 60" X 30"

DETOUR AHEAD W20-2 · ROAD WORK 1/2 MILE W20-1 · ROAD CLOSED W20-3 · ROAD CLOSED 500 FT W20-3

PROJECT NO: 2718-00-74	SUMMIT AVENUE	COUNTY: WAUKESHA	DETOUR PLAN - DETAIL A	SHEET 62	E



TRAFFIC CONTROL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ALL SIGNS INAPPROPRIATE TO THE STATUS OF THE CONTROL ZONE, INCLUDING PRE-EXISTING SIGNING IN THE VICINITY, SHALL BE COVERED OR REMOVED AS SPECIFIED IN THE PLANS AND/OR AS DIRECTED BY THE ENGINEER.

"WO" AND "W" SIGNS SHALL BE 48"x 48" UNLESS OTHERWISE NOTED.

ALL SIGNS SHALL HAVE REFLECTIVE FLUORESCENT DIAMOND GRADE SHEETING.

DRUMS OR BARRICADES SHALL BE USED TO DELINEATE LOCAL TRAFFIC AND/OR PROTECT HAZARDS IN THE WORK ZONE, SUCH AS EXPOSED MANHOLES OR DROP-OFFS FOR VEHICLES AND PEDESTRIANS. THE USE OF SUCH DEVICES SHALL BE INCIDENTAL TO THE OPERATION THAT CREATES THE HAZARD.

ALL M05 AND M06 ARROWS SHALL BE THE SAME AS "M" SIGNS EXCEPT THAT THE BACKGROUND IS ORANGE.

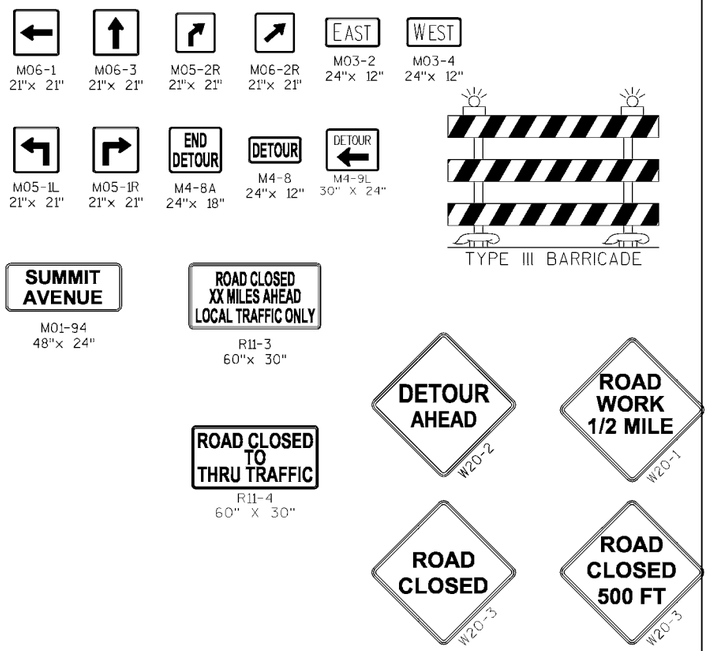
ALL M3 SERIES SIGNS (NORTH, EAST, SOUTH, WEST) WHICH ARE PART OF ANY DETOUR MARKER SIGNING ASSEMBLY OR ATTACHED TO ANY WARNING SIGNS SHALL BE BLACK LETTERING ON WHITE BACKGROUND.

CONTRACTOR TO SEE STANDARD DETAIL DRAWINGS FOR DETOUR SIGNING FOR MAINLINE CLOSURES.

SEE SDD: BARRICADES FOR MAIN LANES AND CLOSURES, BARRICADES AND SIGNS FOR ROADSIDE CLOSURES & TRAFFIC CONTROL, ADVANCED WARNING SIGNS 40 M.P.H. OR LESS TWO WAY UNDIVIDED ROAD OPEN TO TRAFFIC, FOR ADDITIONAL NOTES AND REQUIREMENTS FOR DETOUR SIGNING.

LEGEND

	WORK ZONE
	DETOUR ROUTE
	POST MOUNTED SIGN (NEW)
	POST/POLE MOUNTED SIGN (EXISTING)
	BARRICADE WITH SIGN
67	NEW SIGN
67	EXISTING SIGN
67	EXISTING SIGN TO BE COVERED WITH BLANK ORANGE PANEL



PROJECT NO: 2718-00-74	SUMMIT AVENUE	COUNTY: WAUKESHA	DETOUR PLAN - DETAIL B	SHEET 63	E

TRAFFIC CONTROL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ALL SIGNS INAPPROPRIATE TO THE STATUS OF THE CONTROL ZONE, INCLUDING PRE-EXISTING SIGNING IN THE VICINITY, SHALL BE COVERED OR REMOVED AS SPECIFIED IN THE PLANS AND/OR AS DIRECTED BY THE ENGINEER.

"WO" AND "W" SIGNS SHALL BE 48"x 48" UNLESS OTHERWISE NOTED.

ALL SIGNS SHALL HAVE REFLECTIVE FLUORESCENT DIAMOND GRADE SHEETING.

DRUMS OR BARRICADES SHALL BE USED TO DELINEATE LOCAL TRAFFIC AND/OR PROTECT HAZARDS IN THE WORK ZONE, SUCH AS EXPOSED MANHOLES OR DROP-OFFS FOR VEHICLES AND PEDESTRIANS. THE USE OF SUCH DEVICES SHALL BE INCIDENTAL TO THE OPERATION THAT CREATES THE HAZARD.

ALL M05 AND M06 ARROWS SHALL BE THE SAME AS "M" SIGNS EXCEPT THAT THE BACKGROUND IS ORANGE.

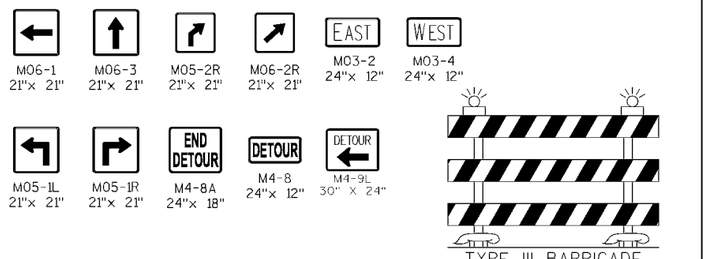
ALL M3 SERIES SIGNS (NORTH, EAST, SOUTH, WEST) WHICH ARE PART OF ANY DETOUR MARKER SIGNING ASSEMBLY OR ATTACHED TO ANY WARNING SIGNS SHALL BE BLACK LETTERING ON WHITE BACKGROUND.

CONTRACTOR TO SEE STANDARD DETAIL DRAWINGS FOR DETOUR SIGNING FOR MAINLINE CLOSURES.

SEE SDD: BARRICADES FOR MAIN LANES AND CLOSURES, BARRICADES AND SIGNS FOR ROADSIDE CLOSURES & TRAFFIC CONTROL, ADVANCED WARNING SIGNS 40 M.P.H. OR LESS TWO WAY UNDIVIDED ROAD OPEN TO TRAFFIC, FOR ADDITIONAL NOTES AND REQUIREMENTS FOR DETOUR SIGNING.

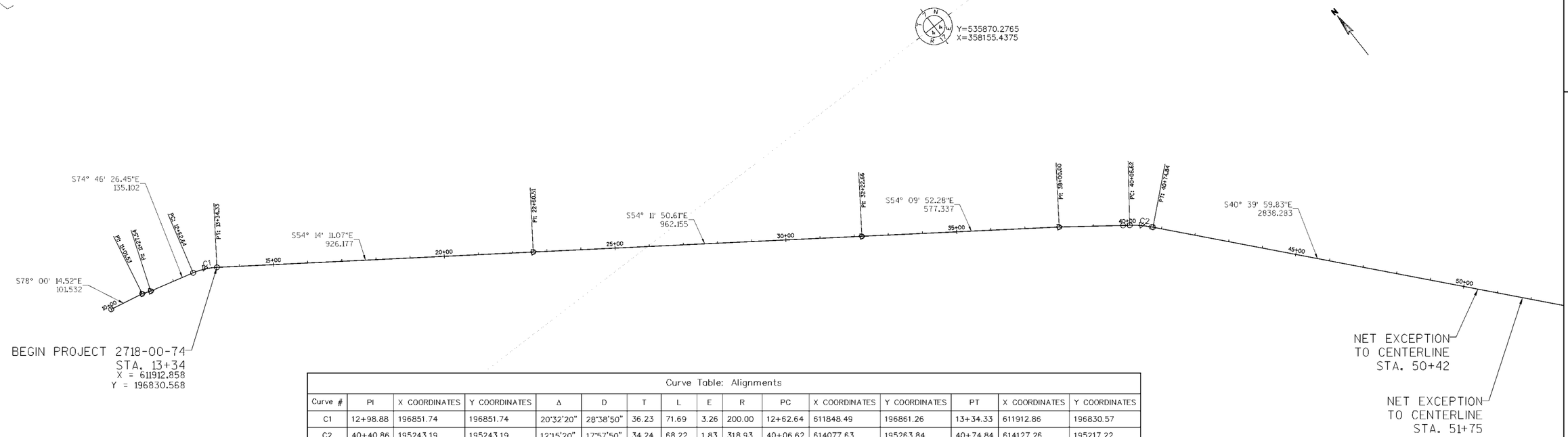
LEGEND

- WORK ZONE
- DETOUR ROUTE
- POST MOUNTED SIGN (NEW)
- POST/POLE MOUNTED SIGN (EXISTING)
- BARRICADE WITH SIGN
- 67 — NEW SIGN
- 67 — EXISTING SIGN
- 67 — EXISTING SIGN TO BE COVERED WITH BLANK ORANGE PANEL



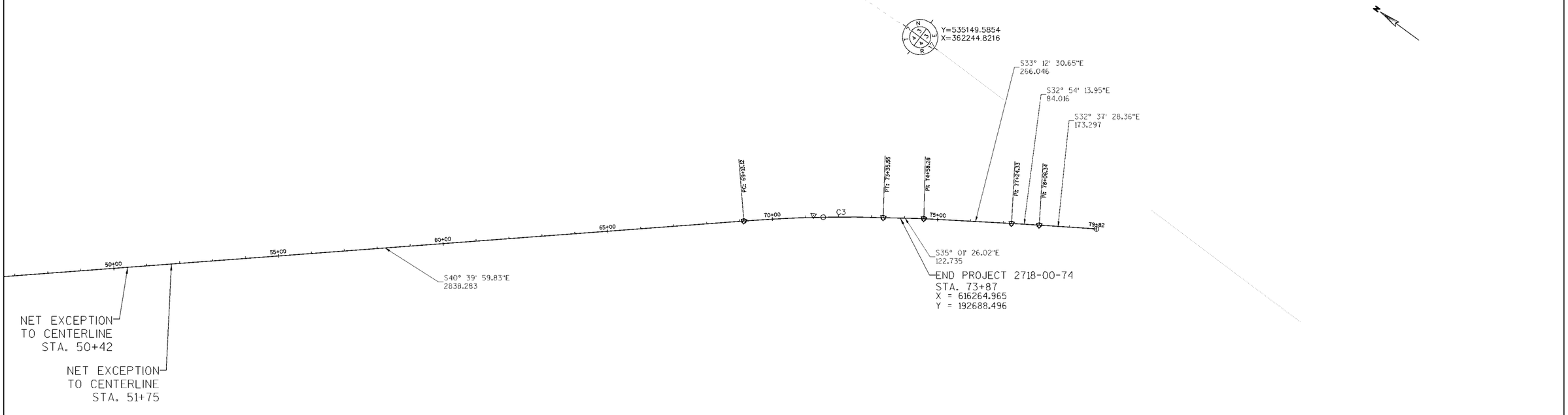
PROJECT NO: 2718-00-74	SUMMIT AVENUE	COUNTY: WAUKESHA	DETOUR PLAN - DETAIL C	SHEET 64	E

2

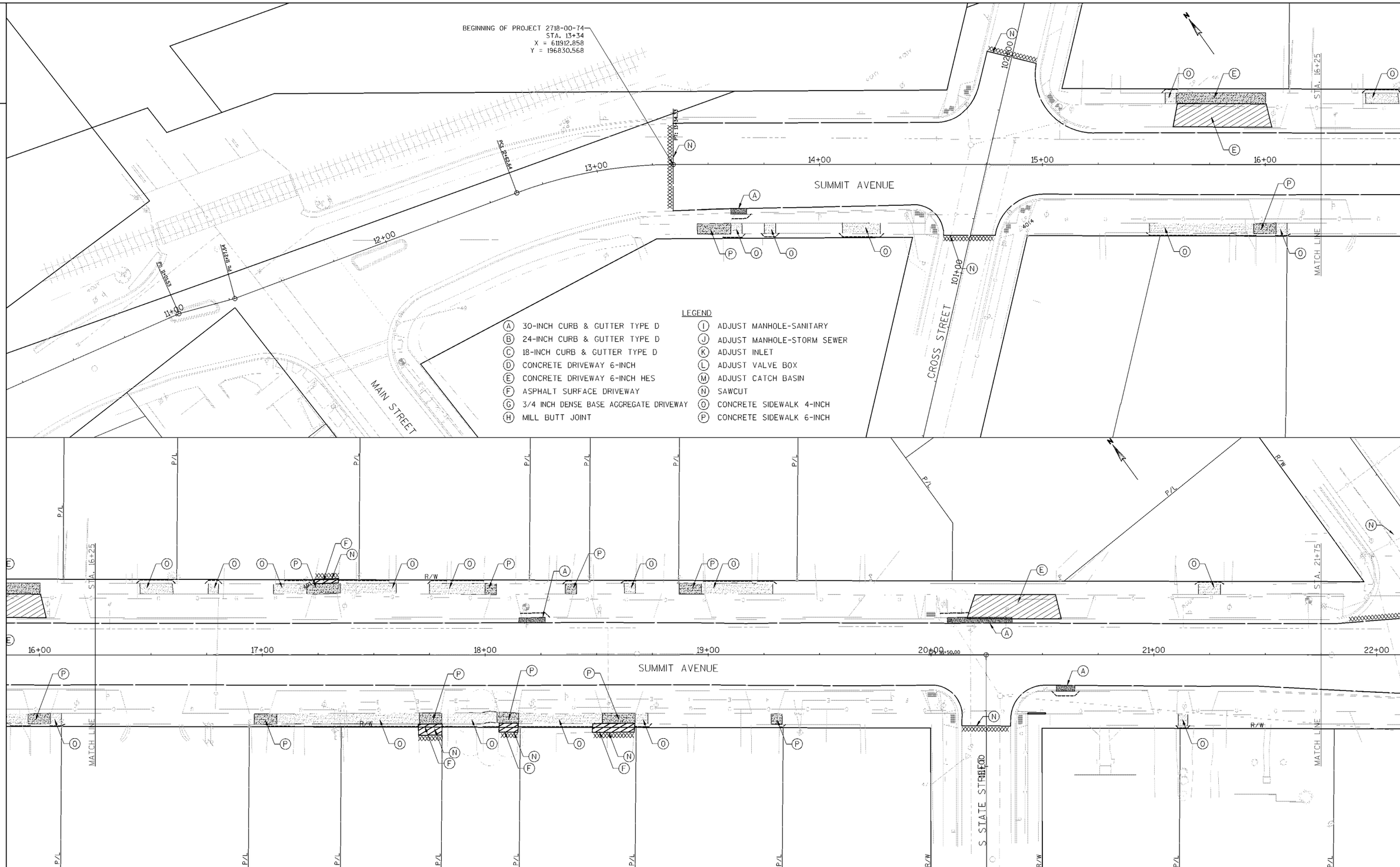


Curve Table: Alignments

Curve #	PI	X COORDINATES	Y COORDINATES	Δ	D	T	L	E	R	PC	X COORDINATES	Y COORDINATES	PT	X COORDINATES	Y COORDINATES
C1	12+98.88	196851.74	196851.74	20°32'20"	28°38'50"	36.23	71.69	3.26	200.00	12+62.64	611848.49	196861.26	13+34.33	611912.86	196830.57
C2	40+40.86	195243.19	195243.19	12°15'20"	17°57'50"	34.24	68.22	1.83	318.93	40+06.62	614077.63	195263.84	40+74.84	614127.26	195217.22
C3	71+24.56	192904.81	192904.81	6°29'10"	1°32'10"	211.44	422.42	5.99	3731.55	69+13.12	615976.84	193064.34	73+35.55	616235.45	192730.61



PROJECT NO: 2718-00-74	SUMMIT AVENUE	COUNTY: WAUKESHA	ALIGNMENT DETAIL	SHEET 65	E



PROJECT NO: 2718-00-74	SUMMIT AVENUE	COUNTY: WAUKESHA	PLAN DETAILS	SHEET 66	E

FILE NAME : G:\C3D\4792219\DWG\Z-058-PAVEMENTGRADES-01.DWG PLOT DATE : 1/28/2014 9:06 AM PLOT BY : ROTH, PETER PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 42

LEGEND

(A)	30-INCH CURB & GUTTER TYPE D	(I)	ADJUST MANHOLE-SANITARY
(B)	24-INCH CURB & GUTTER TYPE D	(J)	ADJUST MANHOLE-STORM SEWER
(C)	18-INCH CURB & GUTTER TYPE D	(K)	ADJUST INLET
(D)	CONCRETE DRIVEWAY 6-INCH	(L)	ADJUST VALVE BOX
(E)	CONCRETE DRIVEWAY 6-INCH HES	(M)	ADJUST CATCH BASIN
(F)	ASPHALT SURFACE DRIVEWAY	(N)	SAWCUT
(G)	3/4 INCH DENSE BASE AGGREGATE DRIVEWAY	(O)	CONCRETE SIDEWALK 4-INCH
(H)	MILL BUTT JOINT	(P)	CONCRETE SIDEWALK 6-INCH

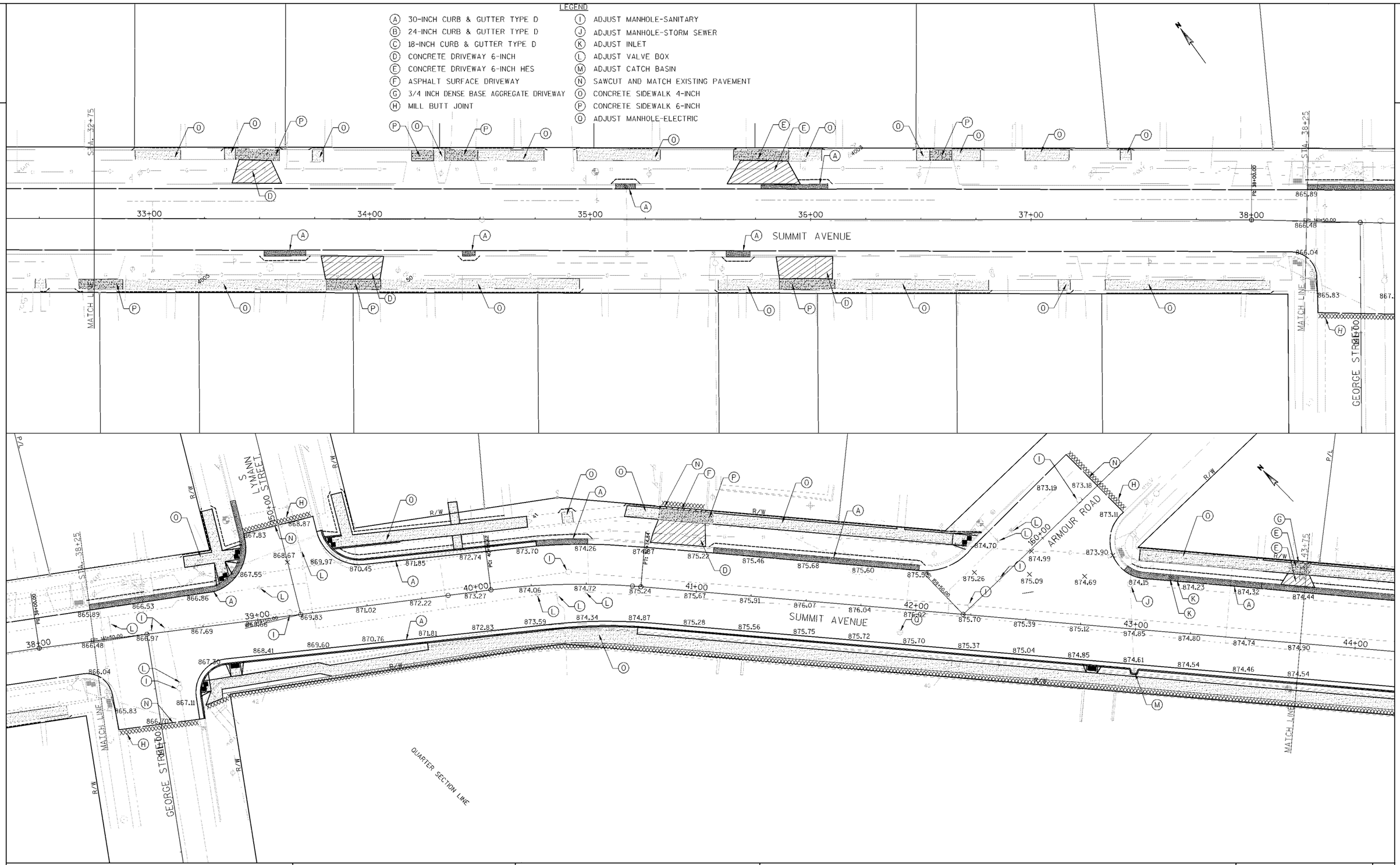
2

STA. 21+75
MATCH LINE
22+00
23+00
24+00
25+00
26+00
27+00
STA. 27+25
SUMMIT AVENUE
SILVER LAKE STREET
SECTION LINE
P/L
R/W
STA. 27+25
27+00
28+00
30+00
31+00
32+00
33+00
121+00
S WESTOVER STREET
130+00
S WOOD STREET
STA. 32+75
MATCH LINE

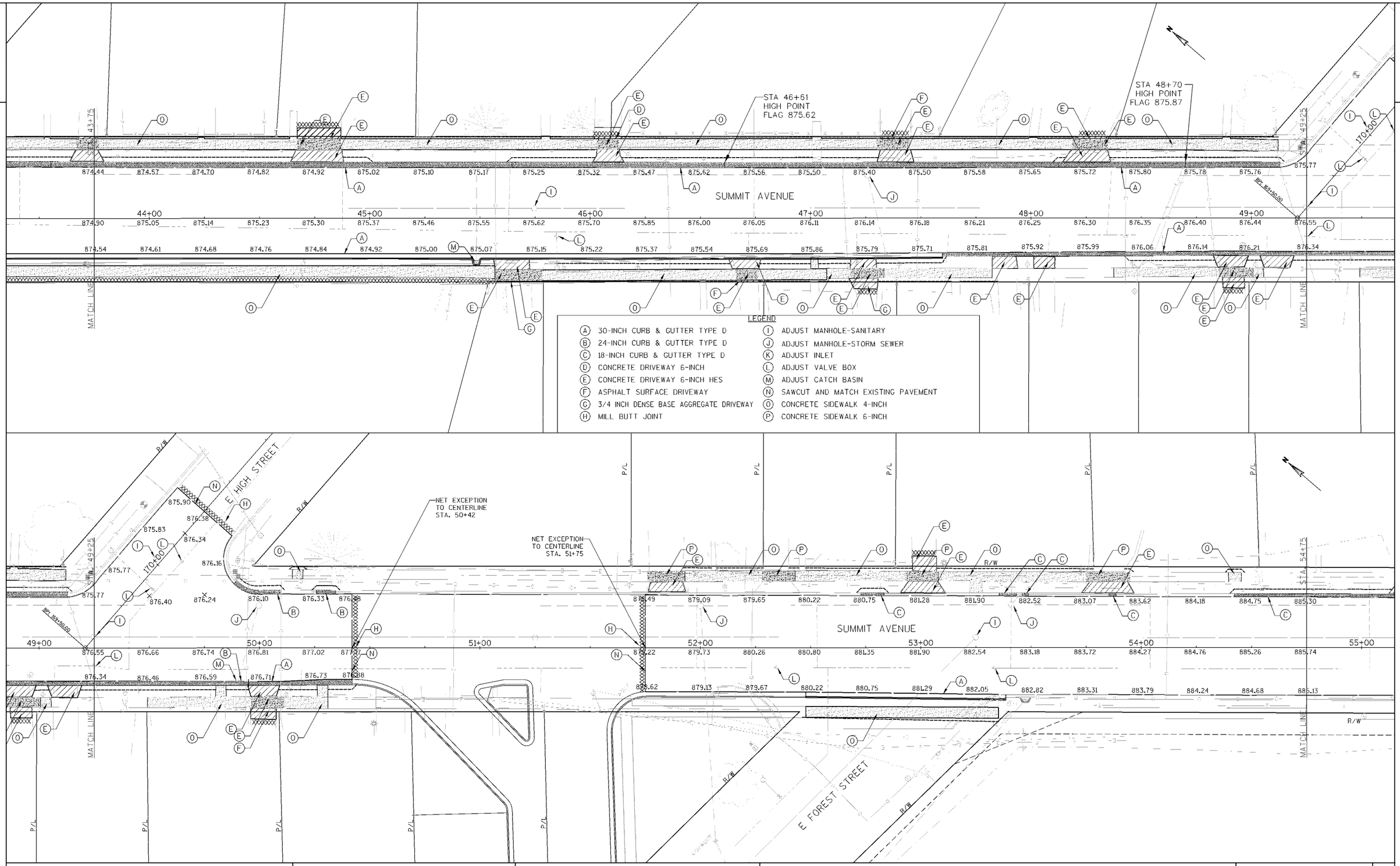
PROJECT NO: 2718-00-74	SUMMIT AVENUE	COUNTY: WAUKESHA	PLAN DETAILS	SHEET 67 E

LEGEND

- (A) 30-INCH CURB & GUTTER TYPE D
- (B) 24-INCH CURB & GUTTER TYPE D
- (C) 18-INCH CURB & GUTTER TYPE D
- (D) CONCRETE DRIVEWAY 6-INCH
- (E) CONCRETE DRIVEWAY 6-INCH HES
- (F) ASPHALT SURFACE DRIVEWAY
- (G) 3/4 INCH DENSE BASE AGGREGATE DRIVEWAY
- (H) MILL BUTT JOINT
- (I) ADJUST MANHOLE-SANITARY
- (J) ADJUST MANHOLE-STORM SEWER
- (K) ADJUST INLET
- (L) ADJUST VALVE BOX
- (M) ADJUST CATCH BASIN
- (N) SAWCUT AND MATCH EXISTING PAVEMENT
- (O) CONCRETE SIDEWALK 4-INCH
- (P) CONCRETE SIDEWALK 6-INCH
- (Q) ADJUST MANHOLE-ELECTRIC



PROJECT NO: 2718-00-74	SUMMIT AVENUE	COUNTY: WAUKESHA	PLAN DETAILS	SHEET 68	E

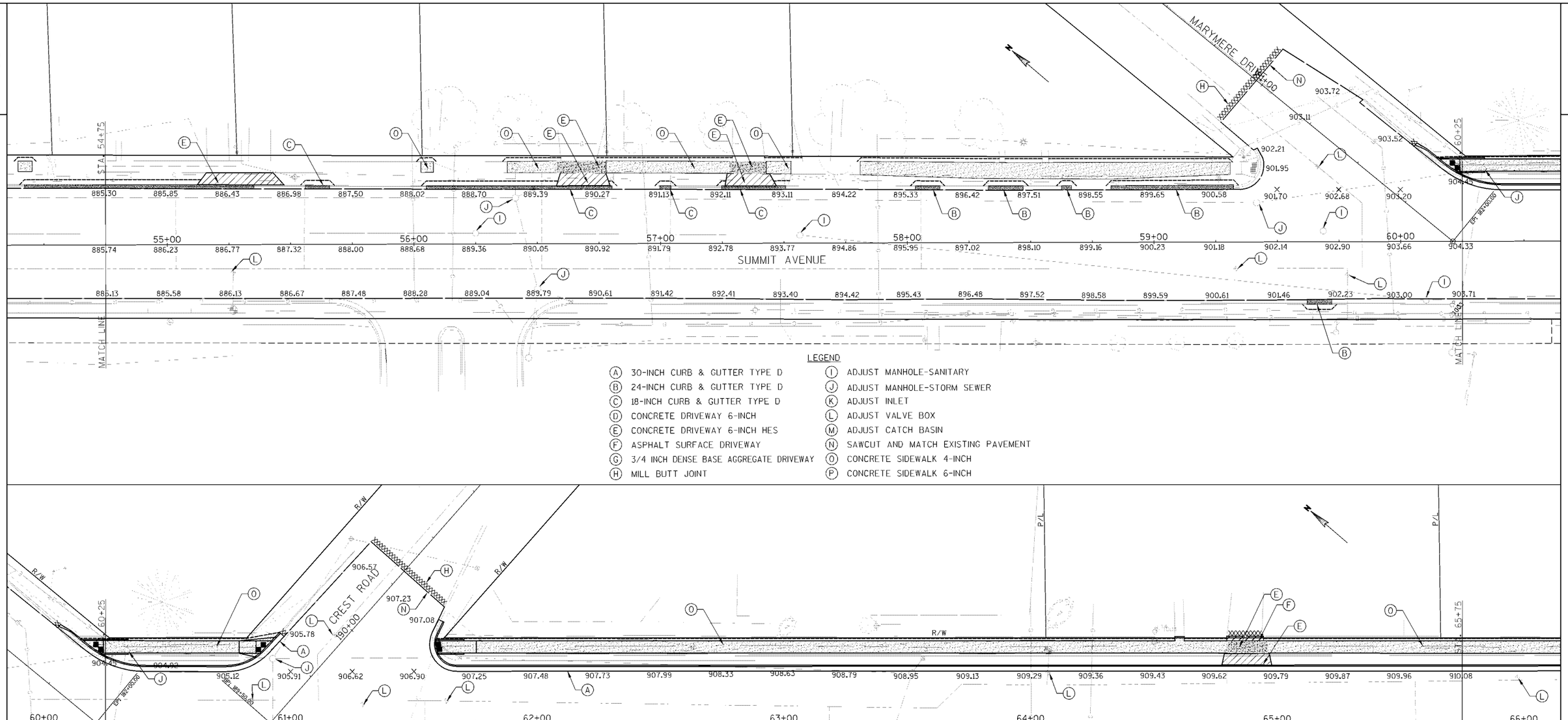


PROJECT NO: 2718-00-74	SUMMIT AVENUE	COUNTY: WAUKESHA	PLAN DETAILS	SHEET 69	E

FILE NAME : G:\C3D\4792219\DWG\Z-061-PAVEMENTGRADES-04.DWG PLOT DATE : 1/28/2014 9:09 AM PLOT BY : ROTH, PETER PLOT NAME : PLOT SCALE : 40:1

WISDOT/CADDS SHEET 42

2

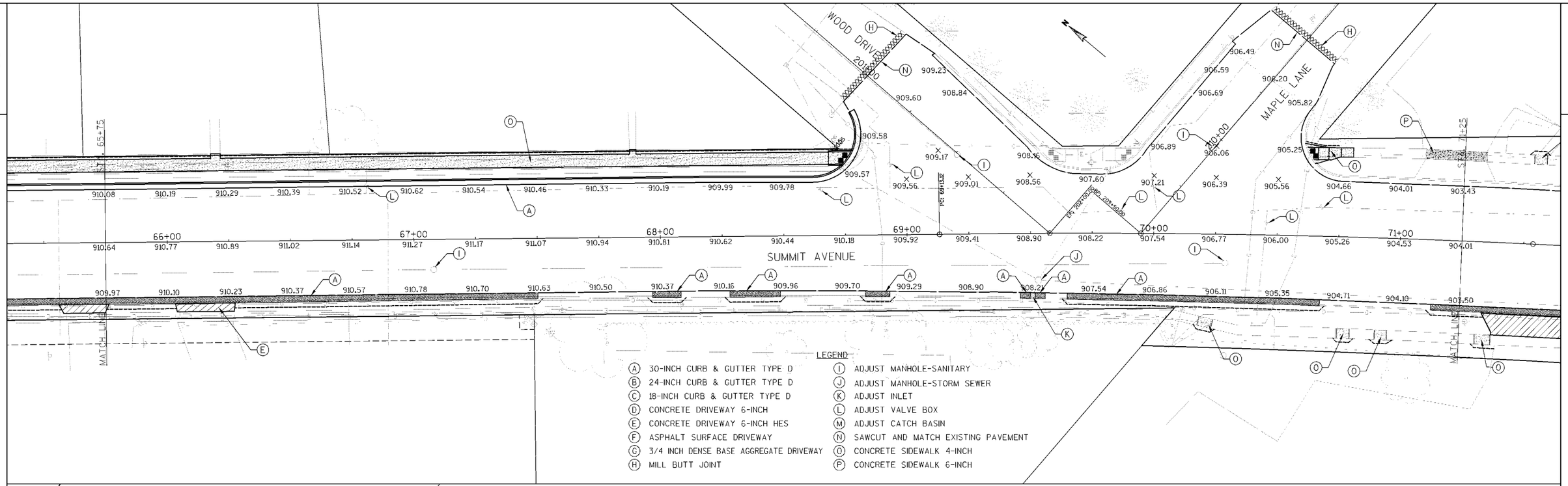


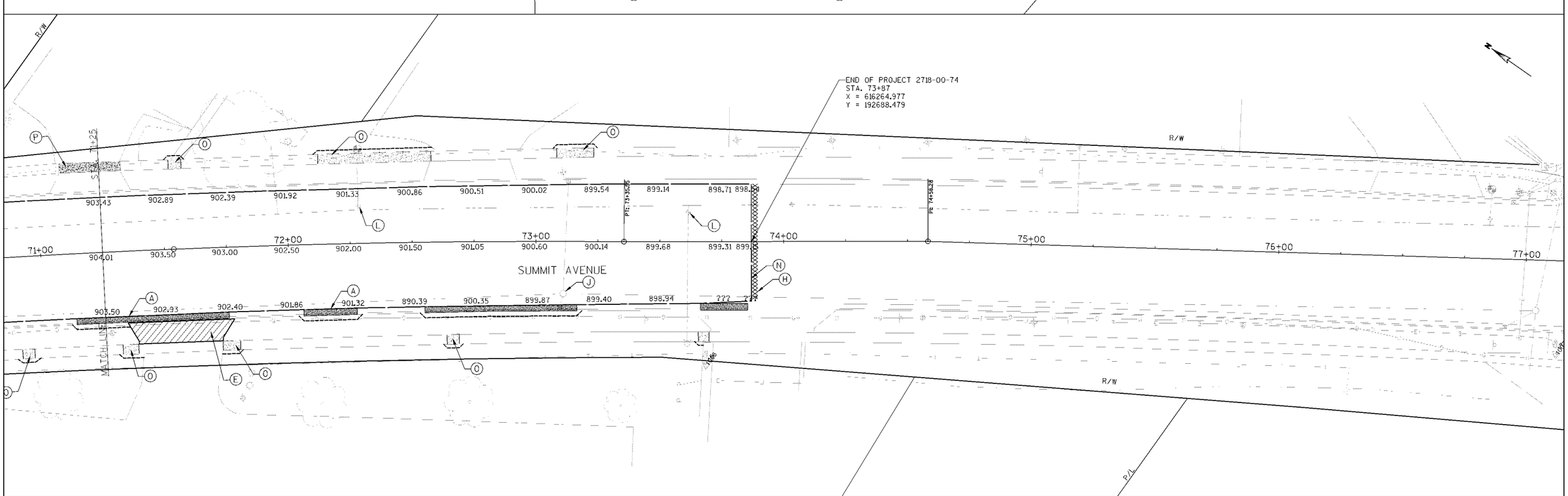
LEGEND

(A) 30-INCH CURB & GUTTER TYPE D	(I) ADJUST MANHOLE-SANITARY
(B) 24-INCH CURB & GUTTER TYPE D	(J) ADJUST MANHOLE-STORM SEWER
(C) 18-INCH CURB & GUTTER TYPE D	(K) ADJUST INLET
(D) CONCRETE DRIVEWAY 6-INCH	(L) ADJUST VALVE BOX
(E) CONCRETE DRIVEWAY 6-INCH HES	(M) ADJUST CATCH BASIN
(F) ASPHALT SURFACE DRIVEWAY	(N) SAWCUT AND MATCH EXISTING PAVEMENT
(G) 3/4 INCH DENSE BASE AGGREGATE DRIVEWAY	(O) CONCRETE SIDEWALK 4-INCH
(H) MILL BUTT JOINT	(P) CONCRETE SIDEWALK 6-INCH

PROJECT NO: 2718-00-74	SUMMIT AVENUE	COUNTY: WAUKESHA	PLAN DETAILS	SHEET 70	E

2





PROJECT NO: 2718-00-74	SUMMIT AVENUE	COUNTY: WAUKESHA	PLAN DETAILS	SHEET 71	E

Permit Number	Sheet Number	Side	Address	Owner	Tax Key
CP 1	PS1	LT	204 Summit Ave	Clifford & M Carlson	OCOC563266
CP 2	PS1	RT	209 Summit Ave	Brian & Rachel Wohlfeil	OCOC0563166
CP 3	PS1	LT	214 Summit Ave	Derek R Nelson	OCOC0563237
CP 4	PS2	LT	220 Summit Ave	Ronald & Jennifer Straus	OCOC0563268
CP 5	PS2	RT	223 Summit Ave	James & Susan Daniels	OCOC0563170
CP 6	PS2	RT	229 Summit Ave	Edward D. Nagel	OCOC0563171
CP 7	PS2	LT	226 Summit Ave	Lucille M Zimdars	OCOC0563269
CP 8	PS2	RT	233 Summit Ave	Andrew & Patriica Stovich	OCOC0563172
CP 9	PS2	RT	237 Summit Ave	Linar Development LLS	OCOC0563173
CP 10	PS2	LT	234 Summit Ave	Russell & Dawn Christenson Revocable Trust	OCOC0563270
CP 11	PS2	RT	241 Summit Ave	Shane & Lisa Marie Malecki	OCOC0563174
CP 12	PS2	LT	242 Summit Ave	Marie Cantwell	OCOC0563272
CP 13	PS2	LT	220 Silver Lake St	William J Edwards	OCOC0563278
CP 14	PS3	RT	311 Summit Ave	David & Mary Miller	OCOC0590110
CP 15	PS3	LT	1 Meadow Rd	Arnold Foods Co Inc c/o Thomson Reuters Tax Services	OCOC0590016001
CP 16	PS3	RT	325 Summit Ave	John & Michele Fuehrer	OCOC0590100
CP 17	PS3	RT	331 Summit Ave	Harry & Rose Snyder	OCOC0590099
CP 18	PS3	RT	339 Summit Ave	Jeffrey & Alycia Betz	OCOC0590098
CP 19	PS3/PS4	LT	340 Summit Ave	Cheryl Marden 1983 Trust	OCOC0590013
CP 20	PS3/PS4	RT	403 Summit Ave	Michael & Bonnie Schmidtz	OCOC0590097
CP 21	PS4	RT	411 Summit Ave	James J Baietto	OCOC0590094
CP 22	PS4	LT	406 Summit Ave	Charles & Deborah Holsen Trust	OCOC0590015
CP 23	PS4	RT	419 Summit Ave	Tim & Nancy Thiele	OCOC0590095
CP 24	PS4	LT	414 Summit Ave	Kerrie J Hart	OCOC0590020
CP 25	PS4	LT	422 Summit Ave	Jack W Hutter	OCOC0590030
CP 26	PS4	RT	427 Summit Ave	James & Julia Eppert	OCOC0590092
CP 27	PS4	LT	424-426 Summit Ave	Jack & Jane Hutter	OCOC0590031
CP 28	PS4	RT	437 Summit Ave	Darwin Marquardt	OCOC0590090
CP 29	PS4	LT	436 Summit Ave	Riemann Properties LLC	OCOC0590001
CP 30	PS4	RT	441 Summit Ave	Rudolph Eckert & Lynda Krill	OCOC0590089
CP 31	PS4	RT	501 Summit Ave	Janelle & Nathan Frednick	OCOC0590088
CP 32	PS4/PS5	RT	507 Summit Ave	Leanne Rische	OCOC0590087
CP 33	PS4/PS5	RT	513 Summit Ave	Steven & Suzanne Derge	OCOC0590086
CP 34	PS5	LT	508 Summit Ave	Jennifer Tarantino	OCOC0590040
CP 35	PS5	RT	517 Summit Ave	Steve & Suzanne Derge	OCOC0590084001
CP 36	PS5	LT	514 Summit Ave	Gary & Onetta Krogmann	OCOC0590041
CP 37	PS5	RT	523-525 Summit Ave	Lynda Krill	OCOC0590083
CP 38	PS5	LT	524 Summit Ave	Paul C Nielson	OCOC0590042
CP 39	PS5	RT	531 Summit Ave	Lloyd J & Loretta Counsell Family Trust	OCOC0590080
CP 40	PS5	LT	530 Summit Ave	Dennis & Theresa Ballman	OCOC0590043
CP 41	PS5	RT	539 Summit Ave	Michael Gnewuch	OCOC0590078
CP 42	PS5	RT	543 Summit Ave	Bruce Richards	OCOC0590077
CP 43	PS5	LT	546 Summit Ave	Michael & Lydia Sobol	OCOC0590045
CP 44	PS5/PS6	RT	561 Summit Ave	Ryan L Oboyle	OCOC0590073
CP 45	PS6	LT	562 Summit Ave	Steven & Rachel Hartzell	OCOC0589181
CP 46	PS6	RT	623 Summit Ave	Keystone Development	OCOC0590195
CP 47	PS6	LT	606 Summit Ave	Stamas LLC	OCOC0589102
CP 48	PS6	LT	608 Summit Ave	Summit Professional Center LLC c/o Randy Prestash	OCOC0589103001
CP 49	PS6	LT	626 Summit Ave	626 Summit LLC c/o Patricia Prestash	OCOC0589103002
CP 50	PS7	LT	642 Summit Ave	Ignatius & M Wetzel	OCOC0589142
CP 51	PS7	LT	646 Summit Ave	Mark & Debra Stukel	OCOC0589144
CP 52	PS7	LT	654 Summit Ave	Joellynn K Nemeth	OCOC0589143
CP 53	PS7	LT	664 Summit Ave	Stephen Enters & Terri Schmidt	OCOC0589146
CP 54	PS7	RT	661 Summit Ave	Margaret Bielik Iron Butterfly LLC	OCOC0589979
CP 55	PS7	RT	667 Summit Ave	Jeffrey & Penny Auter	OCOC0589988
CP 56	PS7	LT	676 Summit Ave	Jennifer A Palmer	OCOC0589163
CP 57	PS7	RT	673 Summit Ave	Marilyn A Koenig	OCOC0589987
CP 58	PS7	RT	679 Summit Ave	Kathleen E Brown	OCOC0589986
CP 59	PS7	LT	688 Summit Ave	Ronald & Cheryl Woppert	OCOC0589164
CP 60	PS7	RT	685 Summit Ave	John & Tassanee Radtke	OCOC0589985
CP 61	PS7/PS8	LT	694 Summit Ave	Sidney & Kathleen Earsley	OCOC0589165
CP 62	PS7	RT	691 Summit Ave	Gary & Mary Nesheim	OCOC0589984
CP 63	PS7/PS8	RT	695 Summit Ave	Eron & Sarah Ezerins	OCOC0589983
CP 64	PS8	RT	701 Summit Ave	Kathryne A Fox	OCOC0589982
CP 65	PS8	LT	712-714 Summit Ave	Baietto Trust	OCOC0589166
CP 66	PS8	RT	705 Summit Ave	Ronald C Furno	OCOC0589981
CP 67	PS8	LT	730 Summit Ave	Judith Wallace	OCOC0589172
CP 68	PS8	LT	738 Summit Ave	Nicholas & Rebecca Thompson	OCOC0589170
CP 69	PS8-PS11	RT	791 Summit Ave	Oconomowoc Memorial Hospital	OCOC0589969
CP 70	PS8	LT	746 Summit Ave	Sandra Solheim	OCOC0589175
CP 71	PS9	LT	762 Summit Ave	Dustin & Jamileen Riley	OCOC0589971
CP 72	PS9	LT	766 Summit Ave	Melva Kottwitz	OCOC0589169
CP 73	PS9	LT	776 Summit Ave	Phyllis J Roach Living Trust	OCOC0589970
CP 74	PS9	LT	784 Summit Ave	Wilber G Gill	OCOC0589168
CP 75	PS9/PS10	LT	786 Summit Ave	Kevin & Jessica Koski	OCOC0589018
CP 76	PS10	RT	819 Summit Ave	Summit Avenue Realty LLC	OCOC0589972
CP 77	PS10	LT	820 Summit Ave A-C	Dale Johnson	OCOC0589022001-OCOC0589022003
CP 78	PS10	LT	820 Summit Ave A-C	Crown Investments Parnership	OCOC0589022001-OCOC0589022003
CP 79	PS10	LT	820 Summit Ave A-C	Kelly Trust	OCOC0589022001-OCOC0589022003
CP 80	PS10	LT	850 Summit Ave	Matthew L Lehman	OCOC0589998
CP 81	PS11/PS12	LT	870 Summit Ave	Dreamscape Properties LLC	OCOC0589023002
CP 82	PS12	LT	877 Wood Dr	Gerald & Becky Zelm	OCOC0589024001
CP 83	PS12	RT	889 Summit Ave	Aurora Medical Group Inc	OCOC0589994
CP 84	PS12	LT	910 Summit Ave	Regees 1 LLC	OCOC0592997
CP 85	PS11/PS12	RT	915 Summit Ave	Aurora Medical Group Inc	OCOC0592995
CP 86	PS12	RT	919 Summit Ave	Wilkinson Manor Apartment Associates	OCOC0592995001
CP 87	PS12	LT	1000 Summit Ave	S & T North Shore LLC	OCOC0592996
CP 88	PS11	LT	916 Maple Ave	Byron & Ruth Pinske	OCOC0589036
CP 89	PS12	RT	888 Thackeray Trail	888 Thackeray Trail PTN	OCOC0592024
CP 90	PS1	RT	219 Main St	GCT Properties LLC	OCOC0563167
CP 91	PS1	RT	203 Summit Ave	Michael & Debra Sohns	OCOC0563165
CP 92	PS1/PS2	RT	325 Main St	Dr Martin Luther Church	OCOC0563168
CP 93	PS2	RT	249 Summit Ave	Russell C. Eppler	OCOC0563175
CP 94	PS2	LT	246 Summit Ave	Kyle Kealty	OCOC0563273
CP 95	PS2	LT	252 Summit Ave	Kyle G. Kealty	OCOC0563277
CP 96	PS2	RT	261 Summit Ave	Gavin Zastrow	OCOC0533177
CP 97	PS3	LT	302 Summit Ave	Linda Foster	OCOC0563279
CP 98	PS4/PS5	LT	504 Summit Ave	Joseph & Jordyn Vlasak	OCOC0590038
CP 99	PS5	LT	552 Summit Ave	Helen Neuman & Kathleen Meyer	OCOC0589180

2

DATE 01APR14 E S T I M A T E O F Q U A N T I T I E S

LINE NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	2718-00-74 QUANTITY
0010	204.0100	REMOVING PAVEMENT	SY	16,261.000	16,261.000
0020	204.0110	REMOVING ASPHALTIC SURFACE	SY	3,396.000	3,396.000
0030	204.0115	REMOVING ASPHALTIC SURFACE BUTT JOINTS	SY	100.000	100.000
0040	204.0125	REMOVING ASPHALTIC SURFACE MILLING	TON	967.000	967.000
0050	204.0150	REMOVING CURB & GUTTER	LF	4,629.000	4,629.000
0060	204.0155	REMOVING CONCRETE SIDEWALK	SY	3,199.000	3,199.000
0070	204.0210	REMOVING MANHOLES	EACH	2.000	2.000
0080	204.0220	REMOVING INLETS	EACH	3.000	3.000
0090	204.0245	REMOVING STORM SEWER (SIZE) 01. 12-INCH	LF	18.000	18.000
0100	204.0245	REMOVING STORM SEWER (SIZE) 02. 15-INCH	LF	35.000	35.000
0110	205.0100	EXCAVATION COMMON	CY	13,471.000	13,471.000
0120	209.0100	BACKFILL GRANULAR	CY	134.500	134.500
0130	211.0100	PREPARE FOUNDATION FOR ASPHALTIC PAVING (PROJECT) 01. 2718-00-74	LS	1.000	1.000
0140	211.0500	PREPARE FOUNDATION FOR BASE AGGREGATE	STA	58.000	58.000
0150	213.0100	FINISHING ROADWAY (PROJECT) 01. 2718-00-74	EACH	1.000	1.000
0160	305.0110	BASE AGGREGATE DENSE 3/4-INCH	TON	990.000	990.000
0170	305.0120	BASE AGGREGATE DENSE 1 1/4-INCH	TON	13,987.000	13,987.000
0180	311.0110	BREAKER RUN	TON	7,980.000	7,980.000
0190	416.0160	CONCRETE DRIVEWAY 6-INCH	SY	163.000	163.000
0200	416.0260	CONCRETE DRIVEWAY HES 6-INCH	SY	673.000	673.000
0210	440.4410.S	INCENTIVE IRI RIDE	DOL	4,320.000	4,320.000
0220	455.0115	ASPHALTIC MATERIAL PG64-22	TON	268.000	268.000
0230	455.0120	ASPHALTIC MATERIAL PG64-28	TON	120.000	120.000
0240	455.0605	TACK COAT	GAL	1,577.000	1,577.000
0250	460.1101	HMA PAVEMENT TYPE E-1	TON	2,577.000	2,577.000
0260	460.1103	HMA PAVEMENT TYPE E-3	TON	3,503.000	3,503.000
0270	460.2000	INCENTIVE DENSITY HMA PAVEMENT	DOL	3,900.000	3,900.000
0280	520.8000	CONCRETE COLLARS FOR PIPE	EACH	6.000	6.000
0290	601.0407	CONCRETE CURB & GUTTER 18-INCH TYPE D	LF	232.000	232.000
0300	601.0411	CONCRETE CURB & GUTTER 30-INCH TYPE D	LF	4,118.000	4,118.000
0310	601.0600	CONCRETE CURB PEDESTRIAN	LF	127.000	127.000
0320	602.0405	CONCRETE SIDEWALK 4-INCH	SF	24,652.000	24,652.000
0330	602.0415	CONCRETE SIDEWALK 6-INCH	SF	2,120.000	2,120.000
0340	602.0505	CURB RAMP DETECTABLE WARNING FIELD YELLOW	SF	104.000	104.000
0350	608.0415	STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 15-INCH	LF	36.000	36.000
0360	608.0512	STORM SEWER PIPE REINFORCED CONCRETE CLASS V 12-INCH	LF	67.000	67.000
0370	611.0600	INLET COVERS TYPE A	EACH	2.000	2.000
0380	611.0660	INLET COVERS TYPE WM	EACH	3.000	3.000
0390	611.1003	CATCH BASINS 3-FT DIAMETER	EACH	1.000	1.000
0400	611.1004	CATCH BASINS 4-FT DIAMETER	EACH	1.000	1.000
0410	611.2005	MANHOLES 5-FT DIAMETER	EACH	1.000	1.000
0420	611.2055	MANHOLES 5X5-FT	EACH	2.000	2.000
0430	611.8110	ADJUSTING MANHOLE COVERS	EACH	13.000	13.000
0440	611.8115	ADJUSTING INLET COVERS	EACH	9.000	9.000
0450	619.1000	MOBILIZATION	EACH	1.000	1.000
0460	623.0200	DUST CONTROL SURFACE TREATMENT	SY	18,092.000	18,092.000
0470	625.0100	TOPSOIL	SY	2,710.000	2,710.000
0480	628.1905	MOBILIZATIONS EROSION CONTROL	EACH	1.000	1.000
0490	628.1910	MOBILIZATIONS EMERGENCY EROSION CONTROL	EACH	4.000	4.000
0500	628.7015	INLET PROTECTION TYPE C	EACH	46.000	46.000

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DATE 01APR14 E S T I M A T E O F Q U A N T I T I E S

LINE NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	2718-00-74 QUANTITY
0510	628.7560	TRACKING PADS	EACH	7.000	7.000
0520	629.0210	FERTILIZER TYPE B	CWT	1.700	1.700
0530	630.0140	SEEDING MIXTURE NO. 40	LB	110.000	110.000
0540	643.0100	TRAFFIC CONTROL (PROJECT) 01. 2718-00-74	EACH	1.000	1.000
0550	643.0300	TRAFFIC CONTROL DRUMS	DAY	11,954.000	11,954.000
0560	643.0410	TRAFFIC CONTROL BARRICADES TYPE II	DAY	414.000	414.000
0570	643.0420	TRAFFIC CONTROL BARRICADES TYPE III	DAY	2,402.000	2,402.000
0580	643.0500	TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS	EACH	168.000	168.000
0590	643.0600	TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER BASES	EACH	168.000	168.000
0600	643.0705	TRAFFIC CONTROL WARNING LIGHTS TYPE A	DAY	2,064.000	2,064.000
0610	643.0715	TRAFFIC CONTROL WARNING LIGHTS TYPE C	DAY	1,596.000	1,596.000
0620	643.0900	TRAFFIC CONTROL SIGNS	DAY	5,465.000	5,465.000
0630	643.2000	TRAFFIC CONTROL DETOUR (PROJECT) 01. 2718-00-74	EACH	1.000	1.000
0640	643.3000	TRAFFIC CONTROL DETOUR SIGNS	DAY	15,748.000	15,748.000
0650	645.0140	GEOTEXTILE FABRIC TYPE SAS	SY	11,979.000	11,979.000
0660	646.0103	PAVEMENT MARKING PAINT 4-INCH	LF	23,285.000	23,285.000
0670	646.0600	REMOVING PAVEMENT MARKINGS	LF	786.000	786.000
0680	647.0153	PAVEMENT MARKING ARROWS PAINT TYPE 1	EACH	2.000	2.000
0690	647.0163	PAVEMENT MARKING ARROWS PAINT TYPE 2	EACH	19.000	19.000
0700	647.0173	PAVEMENT MARKING ARROWS PAINT TYPE 3	EACH	2.000	2.000
0710	647.0203	PAVEMENT MARKING ARROWS BIKE LANE PAINT	EACH	2.000	2.000
0720	647.0303	PAVEMENT MARKING SYMBOLS BIKE LANE PAINT	EACH	29.000	29.000
0730	647.0353	PAVEMENT MARKING WORDS PAINT	EACH	5.000	5.000
0740	647.0563	PAVEMENT MARKING STOP LINE PAINT 18-INCH	LF	141.000	141.000
0750	647.0773	PAVEMENT MARKING CROSSWALK PAINT 12-INCH	LF	1,567.000	1,567.000
0760	649.0100	TEMPORARY PAVEMENT MARKING 4-INCH	LF	2,210.000	2,210.000
0770	649.0400	TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH	LF	3,422.000	3,422.000
0780	649.1200	TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 18-INCH	LF	10.000	10.000
0790	650.4000	CONSTRUCTION STAKING STORM SEWER	EACH	5.000	5.000
0800	650.4500	CONSTRUCTION STAKING SUBGRADE	LF	5,646.000	5,646.000
0810	650.5000	CONSTRUCTION STAKING BASE	LF	5,646.000	5,646.000
0820	650.5500	CONSTRUCTION STAKING CURB GUTTER AND CURB & GUTTER	LF	4,056.000	4,056.000
0830	650.8000	CONSTRUCTION STAKING RESURFACING REFERENCE	LF	2,486.000	2,486.000
0840	650.9910	CONSTRUCTION STAKING SUPPLEMENTAL CONTROL (PROJECT) 01. 2718-00-74	LS	1.000	1.000
0850	690.0150	SAWING ASPHALT	LF	3,403.000	3,403.000
0860	690.0250	SAWING CONCRETE	LF	2,835.000	2,835.000
0870	ASP.1T0A	ON-THE-JOB TRAINING APPRENTICE AT $5.00/HR	HRS	1,000.000	1,000.000
0880	ASP.1T0G	ON-THE-JOB TRAINING GRADUATE AT $5.00/HR	HRS	2,000.000	2,000.000
0890	SPV.0060	SPECIAL 01. ADJUSTING VALVE BOXES	EACH	33.000	33.000
0900	SPV.0060	SPECIAL 02. CONSTRUCTION STAKING CURB RAMP	EACH	11.000	11.000
0910	SPV.0060	SPECIAL 03. INTERNAL-EXTERNAL SANITARY MANHOLE SEAL	EACH	16.000	16.000
0920	SPV.0060	SPECIAL 04. OCONOMOWOC MH FRAME AND COVER	EACH	22.000	22.000
0930	SPV.0060	SPECIAL 05. HYDRANT RELOCATION	EACH	2.000	2.000

DATE 01APR14 E S T I M A T E O F Q U A N T I T I E S

LINE NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	2718-00-74 QUANTITY
0940	SPV.0060	SPECIAL 06. ADJUSTING SANITARY MANHOLE COVERS	EACH	22.000	22.000
0950	SPV.0060	SPECIAL 07. ADJUSTING ELECTRIC MANHOLE COVERS	EACH	1.000	1.000
0960	SPV.0090	SPECIAL 01. CONCRETE CURB & GUTTER 24-INCH TYPE D	LF	349.000	349.000
0970	SPV.0090	SPECIAL 02. CONSTRUCTION STAKING SIDEWALK	LF	5,644.000	5,644.000
0980	SPV.0105	SPECIAL 01. SIGN REMOVAL	LS	1.000	1.000
0990	SPV.0105	SPECIAL 02. PAVEMENT CLEANUP PROJECT 2718-00-74	LS	1.000	1.000
1000	SPV.0170	SPECIAL 01. PROOF ROLLING	STA	116.000	116.000
1010	SPV.0180	SPECIAL 01. HYDROMULCHING	SY	2,710.000	2,710.000
1020	SPV.0200	SPECIAL 01. MANHOLE REPAIR	VF	32.000	32.000

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REMOVALS

					Removing Pavement	Removing Asphaltic Surface	Removing Asphaltic Surface Butt Joints	Removing Asphaltic Surface Milling
					204.0100	204.0110	204.0115	204.0125
Station	to	Station	LT/RT	Location	SY	SY	SY	TON
13+34		30+25	LT/RT	Summit Ave	133	30	0	687
30+25		38+20	LT/RT	Summit Ave	49	59	0	280
38+20		45+55	LT/RT	Summit Ave	2133	478	46	
45+55		50+32	LT/RT	Summit Ave	3272	621	21	
51+75		73+87	RT	Summit Ave	5858	0	15	
51+75		73+87	LT	Summit Ave	4816	2208	18	
				Totals	16261	3396	100	967

PIPE REMOVAL (STORM SEWER)

							Removing Storm Sewer (12")	Removing Storm Sewer (15")
							204.0245	204.0245
Station	to	Station	LT/RT	Offset	Location	Description	LF	LF
51+75		73+87	LT		Summit Ave		18	35
						Totals	18	35

STRUCTURE REMOVAL (STORM SEWER)

						Removing Manholes	Removing Inlets
						204.0210	204.0220
Station	LT/RT	Offset	Location	Description		EACH	EACH
51+75	LT	73+87	Summit Ave			2	3
				Totals		2	3

BACKFILL GRANULAR

	Backfill Granular
	209.0100
Location	C.Y.
Summit Ave	134.5
Totals	134.5

FINISHING

	Finishing Roadway
	213.0100
Location	EACH
Summit Ave	1
Totals	1

FOUNDATION PREPARATION

	Prepare Foundation For Asphaltic Paving	Prepare Foundation for Base Aggregate
	211.0100	211.0500
Location	L.S.	STA.
Summit Ave	1	58
Totals	1	58

BREAKER RUN

	Breaker Run
	311.0110
Location	TON
Summit Ave	7980
Totals	7980

Sidewalk Removal

					Removing Concrete Sidewalk
					204.0155
Station	to	Station	LT/RT	Location	SY
13+45		13+65	28.5' RT	Summit Ave	11
13+75		13+80	28.5' RT	Summit Ave	3
14+10		14+27	28.5' RT	Summit Ave	9
15+48		16+10	29' RT	Summit Ave	31.5
15+55		16+00	30' LT	Summit Ave	24.5
16+45		16+60	30' LT	Summit Ave	13.5
16+75		16+80	30' LT	Summit Ave	2.5
16+96		18+73	28.5' RT	Summit Ave	95.5
17+05		17+60	29.5' LT	Summit Ave	28.5
17+75		18+05	29.5' LT	Summit Ave	16.5
18+36		18+41	29' LT	Summit Ave	2.5
18+62		18+67	29.5' LT	Summit Ave	2.5
18+87		19+29	29.5' LT	Summit Ave	22
19+28		19+33	29' RT	Summit Ave	3
21+11		21+15	29' RT	Summit Ave	2.5
21+20		21+30	29' LT	Summit Ave	5.5
24+00		25+60	29' LT	Summit Ave	96.5
24+58		27+31	30' RT	Summit Ave	139.5
26+38		26+43	29' LT	Summit Ave	3
26+69		27+14	29' LT	Summit Ave	24.5
27+47		27+57	30' RT	Summit Ave	5.5
27+76		27+85	29' LT	Summit Ave	4.5
27+87		27+97	30' RT	Summit Ave	5
28+47		28+81	30' RT	Summit Ave	51.5
28+73		28+79	28.5' LT	Summit Ave	3
29+16		29+40	28.5' LT	Summit Ave	13
29+51		31+41	30' RT	Summit Ave	108
29+80		30+25	28.5' LT	Summit Ave	18
30+25		31+08	28.5' LT	Summit Ave	46
31+63		31+78	30' RT	Summit Ave	8
32+48		32+53	29' RT	Summit Ave	2.5
32+68		34+95	30' RT	Summit Ave	122
32+94		33+14	28.5' LT	Summit Ave	11
33+34		33+59	28.5' LT	Summit Ave	12.5
33+74		33+79	29' LT	Summit Ave	3
34+19		34+79	29' LT	Summit Ave	32
34+94		35+32	29' LT	Summit Ave	20.5
35+58		36+81	30' RT	Summit Ave	64.5
35+65		36+05	29' LT	Summit Ave	20.5
36+48		36+77	29' LT	Summit Ave	15.5
36+97		36+17	29' LT	Summit Ave	11
37+12		37+18	30' RT	Summit Ave	3
37+34		38+09	29.5' RT	Summit Ave	40
37+40		37+45	29' LT	Summit Ave	3
38+70		38+96	30.5' LT	Summit Ave	28
38+70		43+55	24' RT	Summit Ave	320
38+80		38+88	28' LT	Lymann St	32.5
39+35		40+28	33' LT	Summit Ave	52
39+40		39+48	33' LT	Lymann St	14.5
40+40		40+44	30.5 LT	Summit Ave	3
40+66		42+23	33.5' LT	Summit Ave	87
42+99		43+55	33.5' LT	Summit Ave	31
43+55		45+57	24' RT	Summit Ave	131
43+55		49+12	33.5 LT	Summit Ave	301.5
45+57		47+07	27' RT	Summit Ave	28
47+00		47+04	22.5' RT	Summit Ave	2
47+07		47+82	25' RT	Summit Ave	38
48+38		49+05	24.5' RT	Summit Ave	32.5
49+49		50+31	24.5' RT	Summit Ave	48.5
50+15		50+20	33.5' LT	Summit Ave	3
52+48		53+35	29.5' RT	Summit Ave	48.5
70+18		70+24	35.5 RT	Summit Ave	2.5
70+75		70+80	38.5' RT	Summit Ave	2.5
70+91		70+96	39' RT	Summit Ave	2
71+32		71+38	39' RT	Summit Ave	3
71+72		71+79	39' RT	Summit Ave	3
72+64		72+69	39' RT	Summit Ave	2
73+66		73+70	38' RT	Summit Ave	2
51+76		53+95	32' LT	Summit Ave	121.5
54+40		54+45	32' LT	Summit Ave	3
56+03		56+08	31' LT	Summit Ave	2
56+38		57+53	31' LT	Summit Ave	61.5
57+81		59+31	30.5' LT	Summit Ave	79
60+16		60+92	31' LT	Summit Ave	33.5
61+59		64+80	31.5' LT	Summit Ave	178
64+80		68+78	31.5' LT	Summit Ave	294
70+62		70+73	34' LT	Summit Ave	8
71+09		71+34	35' LT	Summit Ave	10.5
71+53		71+58	35' LT	Summit Ave	2.5
72+13		72+58	35' LT	Summit Ave	20
73+08		73+23	36' LT	Summit Ave	6.5
				Totals	3199

Concrete Curb and Gutter Removal

					Removing Curb and Gutter
					204.0150
Station	to	Station	LT/RT	Location	L.F.
13+60		13+67	19.5' RT	Summit Ave	7
18+15		18+27	14' LT	Summit Ave	12
20+07		20+36	14' LT	Summit Ave	19
20+56		20+65	14' RT	Summit Ave	9
24+00		24+86	23' LT	Summit Ave	86
24+32		24+39	14' RT	Summit Ave	7
25+33		25+40	14' LT	Summit Ave	7
25+38		25+44	14' RT	Summit Ave	6
25+85		25+89	14' LT	Summit Ave	4
26+25		26+45	14' RT	Summit Ave	20
26+36		26+43	14' LT	Summit Ave	7
26+90		27+11	14' LT	Summit Ave	21
27+29		27+35	14' RT	Summit Ave	6
28+79		28+82	14' RT	Summit Ave	3
28+81		28+92	14' LT	Summit Ave	11
31+69		31+72	18' LT	Wood St	3
31+69		31+73	14' RT	Summit Ave	4
33+52		33+71	14' RT	Summit Ave	19
34+42		34+48	14' RT	Summit Ave	6
35+11		35+21	14' LT	Summit Ave	10
35+62		35+72	14' RT	Summit Ave	10
35+77		36+08	14' LT	Summit Ave	31
38+25		38+94	14' LT	Summit Ave	72
38+68		38+72	21' RT	George St	20
38+72		43+55	21' RT	Summit Ave	480
38+94		38+96	28' LT	Lyman St	31
39+32		39+39	26' LT	Lyman St	13
39+39		40+50	14' LT	Summit Ave	116
41+06		42+00	15' LT	Summit Ave	94
42+93		43+55	19' LT	Summit Ave	62
43+55		49+13	19' LT	Summit Ave	558
43+55		48+95	21' RT	Summit Ave	640
49+95		50+42	14.5 RT	Summit Ave	47
49+88		50+09	24.5' LT	Summit Ave	21
50+26		50+34	24' LT	Summit Ave	8
52+48		53+38	20' RT	Summit Ave	20
59+62		59+72	23' RT	Summit Ave	10
60+90		60+95	23' RT	Summit Ave	5
61+12		63+40	23' RT	Summit Ave	228
63+40		67+50	23' RT	Summit Ave	410
67+97		68+08	22' RT	Summit Ave	11
68+28		68+48	22' RT	Summit Ave	20
68+83		68+93	22' RT	Summit Ave	10
69+46		69+50	20' RT	Summit Ave	4
69+52		69+56	20' RT	Summit Ave	4
69+65		70+68	24.5' RT	Summit Ave	103
71+13		71+75	26' RT	Summit Ave	62
72+06		72+27	26' RT	Summit Ave	21
72+55		73+17	25.5' RT	Summit Ave	62
73+66		73+87	24' RT	Summit Ave	21
52+73		52+83	23.5' LT	Summit Ave	10
53+36		53+43	23.5' LT	Summit Ave	7
53+46		53+49	23.5' LT	Summit Ave	3
53+85		53+89	23' LT	Summit Ave	4
54+42		55+35	22.5' LT	Summit Ave	93
55+56		55+66	22.5' LT	Summit Ave	10
56+05		56+80	22' LT	Summit Ave	75
57+00		57+04	22' LT	Summit Ave	4
57+25		57+51	22' LT	Summit Ave	26
58+03		58+13	21.5' LT	Summit Ave	10
58+33		58+47	21' LT	Summit Ave	14
58+63		58+67	21' LT	Summit Ave	4
58+83		59+32	21' LT	Summit Ave	49
60+06		60+98	21' LT	Summit Ave	100
61+60		61+60	26' LT	Crest Road	17
61+60		68+79	21' LT	Summit Ave	725
68+79		68+79	31' LT	Wood Dr	17
				Totals	4629

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Division	From/To Station	Location	Common Excavation (1)	(item # 205.0100)	Salvaged/ Unusable Pavement Material (4)	Available Material (5)	Reduced EBS in Fill (6)	Expanded EBS Backfill (7)	Unexpanded Fill	EBS Backfill Breaker Run (Tons) (8)	Expanded Fill (9)	Mass Ordinate +/- (10)	Waste (10)	Borrow	Comment:
			Cut (2)	Undistributed EBS (3)			Factor	Factor		Factor 1.1	Factor				
							0.80	1.10		(Item #311.0110)	1.25			(Item #208.0100)	
1	38+20 to 43+55	Mainline stage 2	1006	482	563	443	0	530	0	1061	0	443	1488		
		George Street	50		27	23					0	23	50		
		Lyman Road	55		30	25					0	25	55		
		Armour Road	140		71	69					0	69	140		
Division 1 Subtotal			1251	482	691	560	0	530	0	1061	0	560	1733		
2	38+20 to 50+42	Mainline stage 3	1430	446	808	624	0	490	0	981	0	624	1876		
		High Street	120		57	63					0	63	120		
											0	0	0		
											0	0	0		
Division 2 Subtotal			1550	446	863	687	0	490	0	981	0	687	1996		
3	51+75 to 73+87	Mainline stages 3 & 4	6381	2699	3051	3330	0	2969	175	5939	219	3111	8862		
		Marymere Road (stage 4)	170		83	87					0	87	170		
		Crest Drive (stage 4)	120		61	59					0	59	120		
		Wood Drive (stage 4)	160		79	81					0	81	160		
						115					0	115	212		
Division 3 Subtotal			7043	2699	3371	3672	0	2969	175	5939	219	3453	9524		
Grand Total				3627	4925	4919	0	3990	175	7980	219	4700	13253		
		Total Common Exc		13471											

1) Common Excavation is the sum of the Cut and EBS Excavation columns. Item number 205.0100

2) Salvaged/Unusable Pavement Material is included in Cut.

3) EBS Excavation to be backfilled with Breaker Run.

4) Salvaged/Unusable Pavement Material

5) Available Material = Cut - Salvaged/Unusable Pavement Material

9) Reduced EBS in Fill - Excavated EBS material is usable in Fills outside the 1:1 slope. EBS in Fill Reduction factor = 0.8

11) Expanded EBS Backfill - This is to be filled with Breaker Run. EBS Backfill Factor = 1.1. Item number 311.0110

12) Expanded Rock - Factor = 1.1.

13) Expanded Fill. Factor = 1.25

Expanded Fill = (Unexpanded Fill - Reduced EBS) * Fill Factor

14) The Mass Ordinate + or - Qty calculated for the Division. Plus quantity indicates an excess of material within the Division. Minus indicates a shortage of material within the Division.

10) Salvaged/Unusable Pavement Material and EBS are included in Waste

PAVEMENTS AND AGGREGATE BASE

					Base Aggregate Dense 3/4-Inch	Base Aggregate Dense 1 1/4-Inch	Aspahltic Material PG64-22	Asphaltic Material PG64-28	Tack Coat	HMA Pavement Type E-1	HMA Pavement Type E-3
					305.0110	305.0120	455.0115	455.0120	455.0605	460.1101	460.1103
Station	to	Station	LT/RT	Location	TON	TON	TON	TON	Gallon	TON	TON
13+34		30+25	LT/RT	Summit Ave	172	39	41		156	677	
30+25		38+20	LT/RT	Summit Ave	116	162	17		64	262	
38+20		43+55	LT/RT	Summit Ave	123	1582	27	16	175	665	
43+55		50+42	LT/RT	Summit Ave	156	2632	39	22	257	972	
51+75		73+87	RT	Summit Ave	16	4466	66	37	428		1623
51+75		73+87	LT	Summit Ave	181	5106	78	45	497	1	1880
				Totals	764	13987	268	120	1577	2577	3503

INCENTIVE IRI RIDE

	Incentive IRI Ride
	440.4410.S
Location	DOLLAR
Summit Ave	4320
Totals	4320

INCENTIVE DENSITY HMA PAVEMENT

	INCENTIVE DENSITY HMA PAVEMENT
	460.2000
Location	DOLLAR
Summit Ave	3900
Totals	3900

Driveways

					Driveway Area (Reference Only)	Concrete Driveway 6-Inch	Concrete Driveway 6-Inch HES	Base Aggregate Dense 3/4-Inch	Asphalt driveway	Gravel Drive Base Aggregate 1 1/4-inch
						416.0160	416.0260	305.0110		
Station	to	Station	LT/RT	Location	SF	SY	SY	TON	SY	SY
15+60		16+02	LT	Summit Ave	442		49	16.5		
17+23		17+34	LT	Summit Ave	21.5			1	2.5	
17+70		17+81	RT	Summit Ave	53			2	6	
18+06		18+15	RT	Summit Ave	34			1.5	4	
18+48		18+67	RT	Summit Ave	75			3	8.5	
20+18		20+57	LT	Summit Ave	427		47	16		
25+21		25+52	LT	Summit Ave	63.5			2.5	7	
25+54		25+66	RT	Summit Ave	125.5	14		5		
26+18		26+33	RT	Summit Ave	165		18.5	6		
27+03		27+18	RT	Summit Ave	166		18.5	6		
29+25		29+40	LT	Summit Ave	92			3.5	10	
30+39		30+49	LT	Summit Ave	38.5			1.5	4.5	
30+56		30+66	LT	Summit Ave	39			1.5	4.5	
30+81		31+05	RT	Summit Ave	250	28		9.5		
31+62		31+74	RT	Summit Ave	120	13.5		4.5		
33+39		33+58	LT	Summit Ave	194	21.5		7		
33+79		34+06	RT	Summit Ave	277	31		10.5		
35+65		35+92	LT	Summit Ave	288		32	10.5		
35+85		36+10	RT	Summit Ave	247	27.5		9		
40+79		41+02	LT	Summit Ave	247	27.5		9		
40+80		41+01	LT	Summit Ave	21.5			1	2.5	
43+65		43+78	LT	Summit Ave	77		8.5	3		
44+65		44+88	LT	Summit Ave	190		21	7		
45+57		45+72	RT	Summit Ave	77		8.5	3		
45+57		45+72	RT	Summit Ave	8					1
46+02		46+14	LT	Summit Ave	77		8.5	3		
46+64		46+77	RT	Summit Ave	57		6.5	2		
46+66		46+76	RT	Summit Ave	8.5			0.5		1
47+18		47+30	RT	Summit Ave	52		6	2		
47+31		47+46	LT	Summit Ave	86		9.5	3		
47+32		47+45	LT	Summit Ave	14.5			0.5	2	
47+82		47+94	RT	Summit Ave	60		6.5	2.5		
48+01		48+12	RT	Summit Ave	52		6	2		
48+16		48+35	LT	Summit Ave	120		13.5	4.5		
48+84		48+98	RT	Summit Ave	74		8.5	3		
49+05		49+18	RT	Summit Ave	75.5		8.5	3		
49+95		50+08	RT	Summit Ave	123.5		13	2.5		
71+36		71+75	RT	Summit Ave	326		36.5	12		
51+77		51+94	LT	Summit Ave	72		8	2.5		
52+93		53+09	LT	Summit Ave	167		18.5	6.5		
53+75		53+95	LT	Summit Ave	104.5		11.5	4		
55+14		55+45	LT	Summit Ave	152		17	5.5		
56+59		56+79	LT	Summit Ave	104		12	4		
57+27		57+46	LT	Summit Ave	95		10.5	3.5		
61+53		61+80	RT	Summit Ave	96		10.5	3.5		
63+53		63+87	RT	Summit Ave	97		11	3.5		
64+40		64+57	RT	Summit Ave	63.5		7	2.5		
64+78		64+97	LT	Summit Ave	89		10	3.5		
64+80		64+94	LT	Summit Ave	27.4			1	3	
66+04		66+27	RT	Summit Ave	79		9	3		
65+57		65+75	RT	Summit Ave	65		7.5	2.5		
				Totals	5450.4	163	458.5*	226	54.5	2

NOTE: ASPHALT DRIVEWAY PAID UNDER BID ITEMS 455.0115 AND 460.1101 AND INCLUDED IN QUANTITIES SHOWN UNDER "PAVEMENTS AND AGGREGATE BASE." GRAVEL DRIVE BASE AGGREGATE PAID UNDER BID ITEM 305.0120 AND INCLUDED IN QUANTITIES SHOWN UNDER "PAVEMENTS AND AGGREGATE BASE."

* BID ITEM 416.0260 IS ALSO LISTED IN THE CONCRETE SIDEWALK, 6-INCH, SCHEDULE AND THAT QUANTITY IS NOT INCLUDED IN THIS TOTAL. THE TOTAL QUANTITY FOR THIS PROJECT IS 673 SY.

Concrete Curb and Gutter

					Concrete Curb & Gutter 18-Inch Type D	Concrete Curb & Gutter 24-Inch Type D Special	Concrete Curb & Gutter 30-Inch Type D
					601.0407	SPV.0090.01	601.0411
Station	to	Station	LT/RT	Location	L.F.	L.F.	L.F.
13+60		13+67	19.5' RT	Summit Ave			7
18+15		18+27	14' LT	Summit Ave			12
20+07		20+36	14' LT	Summit Ave			19
20+56		20+65	14' RT	Summit Ave			9
24+00		24+86	23' LT	Summit Ave			86
24+32		24+39	14' RT	Summit Ave			7
25+33		25+40	14' LT	Summit Ave			7
25+38		25+44	14' RT	Summit Ave			6
25+85		25+89	14' LT	Summit Ave			4
26+25		26+45	14' RT	Summit Ave			20
26+36		26+43	14' LT	Summit Ave			7
26+90		27+11	14' LT	Summit Ave			21
27+29		27+35	14' RT	Summit Ave			6
28+79		28+82	14' RT	Summit Ave			3
28+81		28+92	14' LT	Summit Ave			11
31+69		31+72	18' LT	Wood St			3
31+69		31+73	14' RT	Summit Ave			4
33+52		33+71	14' RT	Summit Ave			19
34+42		34+48	14' RT	Summit Ave			6
35+11		35+21	14' LT	Summit Ave			10
35+62		35+72	14' RT	Summit Ave			10
35+77		36+08	14' LT	Summit Ave			31
38+25		38+94	14' LT	Summit Ave			72
38+68		38+72	21' RT	George St			20
38+72		43+55	21' RT	Summit Ave			480
38+94		38+96	28' LT	Lyman St			31
39+32		39+39	26' LT	Lyman St			13
39+39		40+50	14' LT	Summit Ave			116
41+06		42+00	15' LT	Summit Ave			94
42+93		43+55	19' LT	Summit Ave			62
43+55		49+13	19' LT	Summit Ave			558
43+55		48+95	21' RT	Summit Ave			640
49+95		50+42	14.5 RT	Summit Ave			47
49+88		50+09	24.5' LT	Summit Ave		21	
50+26		50+34	24' LT	Summit Ave		8	
52+48		53+38	20' RT	Summit Ave			90
59+62		59+72	23' RT	Summit Ave		10	
60+90		60+95	23' RT	Summit Ave		5	
61+12		63+40	23' RT	Summit Ave		228	
63+40		67+50	23' RT	Summit Ave			410
67+97		68+08	22' RT	Summit Ave			11
68+28		68+48	22' RT	Summit Ave			20
68+83		68+93	22' RT	Summit Ave			10
69+46		69+50	20' RT	Summit Ave			4
69+52		69+56	20' RT	Summit Ave			4
69+65		70+68	24.5' RT	Summit Ave			103
71+13		71+75	26' RT	Summit Ave			62
72+06		72+27	26' RT	Summit Ave			21
72+55		73+17	25.5' RT	Summit Ave			62
73+66		73+87	24' RT	Summit Ave			21
52+73		52+83	23.5' LT	Summit Ave	10		
53+36		53+43	23.5' LT	Summit Ave	7		
53+46		53+49	23.5' LT	Summit Ave	3		
53+85		53+89	23' LT	Summit Ave	4		
54+42		55+35	22.5' LT	Summit Ave	93		
55+56		55+66	22.5' LT	Summit Ave	10		
56+05		56+80	22' LT	Summit Ave	75		
57+00		57+04	22' LT	Summit Ave	4		
57+25		57+51	22' LT	Summit Ave	26		
58+03		58+13	21.5' LT	Summit Ave		10	
58+33		58+47	21' LT	Summit Ave		14	
58+63		58+67	21' LT	Summit Ave		4	
58+83		59+32	21' LT	Summit Ave		49	
60+06		60+98	21' LT	Summit Ave			100
61+60		61+60	26' LT	Crest Road			17
61+60		68+79	21' LT	Summit Ave			725
68+79		68+79	31' LT	Wood Dr			17
				Totals	232	349	4118

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DETECTABLE WARNING FIELDS	
	Curb Ramp Detectable Warning Field Yellow
	602.0505
Location	S.F.
Summit Ave	104
Totals	104

PEDESTRIAN CURB	
	Concrete Curb Pedestian
	601.0600
Location	L.F.
Summit Ave	127
Totals	127

Concrete sidewalk, 4-inch

					Concrete Sidewalk 4-Inch
					602.0405
Station	to	Station	LT/RT	Location	SF
13+60		13+65	28.5' RT	Summit Ave	25
13+75		13+80	28.5' RT	Summit Ave	25
14+10		14+27	28.5' RT	Summit Ave	85
15+48		15+95	29' RT	Summit Ave	235
15+55		15+60	30' LT	Summit Ave	25
16+05		16+10	30' RT	Summit Ave	25
16+45		16+60	30' LT	Summit Ave	75
16+75		16+80	30' LT	Summit Ave	25
17+05		17+20	29.5' LT	Summit Ave	75
17+06		17+70	28.5' RT	Summit Ave	320
17+35		17+60	29.5' LT	Summit Ave	125
17+75		18+00	29.5' LT	Summit Ave	125
17+80		18+05	28.5' RT	Summit Ave	125
18+15		18+52	28.5' RT	Summit Ave	185
18+62		18+67	29.5' LT	Summit Ave	25
18+67		18+73	28.5' RT	Summit Ave	30
18+97		19+29	29.5' LT	Summit Ave	160
21+11		21+15	29' RT	Summit Ave	20
21+20		21+30	29' LT	Summit Ave	50
24+00		25+20	29' LT	Summit Ave	600
24+58		24+73	30'RT	Summit Ave	75
24+88		25+56	30' RT	Summit Ave	340
25+66		26+19	30' RT	Summit Ave	265
26+34		27+03	30' RT	Summit Ave	345
26+38		26+43	29' LT	Summit Ave	25
26+69		26+99	29' LT	Summit Ave	150
27+18		27+31	30' RT	Summit Ave	65
27+47		27+57	30' RT	Summit Ave	50
27+76		27+85	29' LT	Summit Ave	45
27+87		27+97	30' RT	Summit Ave	50
28+47		28+81	30' RT	Summit Ave	170
28+73		28+79	28.5' LT	Summit Ave	30
29+51		30+81	30' RT	Summit Ave	650
29+80		30+25	28.5' LT	Summit Ave	225
30+25		30+36	28.5 LT	Summit Ave	55
30+51		30+56	28.5' LT	Summit Ave	25
30+66		31+08	28.5' LT	Summit Ave	210
31+06		31+41	30' RT	Summit Ave	175
31+73		31+78	30' RT	Summit Ave	25
32+48		32+53	29' RT	Summit Ave	25
32+88		33+80	30' RT	Summit Ave	460
32+94		33+14	28.5' LT	Summit Ave	100
33+34		33+39	28.5' LT	Summit Ave	25
33+74		33+79	29' LT	Summit Ave	25
34+05		34+95	30' RT	Summit Ave	450
34+29		34+34	29' LT	Summit Ave	25
34+49		34+79	29' LT	Summit Ave	150
34+94		35+32	29' LT	Summit Ave	190
35+58		35+86	30' RT	Summit Ave	140
35+90		36+05	29' LT	Summit Ave	75
36+11		36+81	30' RT	Summit Ave	350
36+48		36+54	29' LT	Summit Ave	30
36+64		36+77	29' LT	Summit Ave	65
36+97		37+17	29' LT	Summit Ave	100
37+12		37+18	30' RT	Summit Ave	30
37+34		38+09	29.5' RT	Summit Ave	375
37+40		37+45	29' LT	Summit Ave	25
38+70		43+55	24' RT	Summit Ave	2715
38+70		38+96	28' LT	Summit Ave	130
38+80		38+88	28' LT	Lymann St	291
39+35		40+25	28' LT	Summit Ave	468
39+40		39+48	33' LT	Lymann St	131
40+40		40+44	30.5' LT	Summit Ave	20
40+66		40+80	31' LT	Summit Ave	70
41+05		42+23	33.5' LT	Summit Ave	681
42+99		43+55	33.5 LT	Summit Ave	280
43+55		45+57	24' RT	Summit Ave	1059
43+55		43+67	33.54 RT	Summit Ave	60
43+77		44+66	33.5' LT	Summit Ave	445
44+87		46+03	33.5' LT	Summit Ave	580
45+78		46+66	27' RT	Summit Ave	430
46+13		47+30	33.5' LT	Summit Ave	585
47+45		48+18	33.5' LT	Summit Ave	365
46+76		47+07	22.5' RT	Summit Ave	162
47+01		47+05	18' RT	Summit Ave	20
47+07		47+18	25' RT	Summit Ave	55
47+33		47+82	25' RT	Summit Ave	245
48+35		49+12	33.5' LT	Summit Ave	385
48+38		48+85	24.5' RT	Summit Ave	235
49+00		49+05	24.5' RT	Summit Ave	25
49+49		49+96	24.5' RT	Summit Ave	235
50+11		50+31	25.5' RT	Summit Ave	100
50+15		50+20	33.5' LT	Summit Ave	25
52+48		53+35	29.5' RT	Summit Ave	435
70+18		70+24	35.5 RT	Summit Ave	30
70+75		70+80	38.5' RT	Summit Ave	25
70+91		70+96	39' RT	Summit Ave	25
71+32		71+38	39' RT	Summit Ave	30
71+72		71+79	39' RT	Summit Ave	35
72+64		72+69	39' RT	Summit Ave	25
73+66		73+70	38' RT	Summit Ave	20
51+93		52+28	33' LT	Summit Ave	175
52+43		52+93	32.5' LT	Summit Ave	250
53+08		53+75	32' LT	Summit Ave	335
54+40		54+45	32' LT	Summit Ave	25
56+03		56+08	31' LT	Summit Ave	25
56+38		56+58	31' LT	Summit Ave	100
56+78		57+28	31' LT	Summit Ave	250
57+43		57+53	31' LT	Summit Ave	50
57+81		59+31	31.5' LT	Summit Ave	750
60+16		60+92	31' LT	Summit Ave	364
61+59		64+80	31' LT	Summit Ave	1605
64+96		68+78	32' LT	Summit Ave	1910
70+62		70+73	34' LT	Summit Ave	91
71+53		51+58	35' LT	Summit Ave	25
72+13		72+58	35' LT	Summit Ave	225
73+08		73+23	36' LT	Summit Ave	75
				Totals	24652

Concrete sidewalk, 6-inch

					Concrete Sidewalk 6-Inch	Concrete Driveway HES 6-Inch
					602.0415	416.0260
Station	to	Station	LT/RT	Location	SF	SY
13+45		13+60	28.5' RT	Summit Ave	75	
15+60		16+00	30' LT	Summit Ave		22
15+95		16+05	29' RT	Summit Ave	50	
16+96		17+06	29' RT	Summit Ave	50	
17+20		17+35	29.5' LT	Summit Ave	75	
17+70		17+80	28.5' RT	Summit Ave	50	
18+00		18+05	29.5' LT	Summit Ave	25	
18+05		18+15	28.5' RT	Summit Ave	50	
18+36		18+41	29' LT	Summit Ave	25	
18+52		18+67	28.5' RT	Summit Ave	75	
18+87		18+97	29.5' LT	Summit Ave	50	
19+28		19+33	29' RT	Summit Ave	25	
24+73		24+88	30' RT	Summit Ave	75	
25+20		25+60	29' LT	Summit Ave	200	
25+56		25+66	30' RT	Summit Ave	50	
26+19		26+34	30' RT	Summit Ave		8.5
26+99		27+14	29' LT	Summit Ave	75	
27+03		27+18	30' RT	Summit Ave		8.5
29+16		29+40	28.5' LT	Summit Ave	120	
30+36		30+51	28.5' LT	Summit Ave	75	
30+56		30+66	28.5' LT	Summit Ave	50	
30+81		31+06	30' RT	Summit Ave	125	
31+63		31+73	30' RT	Summit Ave	50	
32+68		32+88	30' RT	Summit Ave	100	
33+39		33+59	28.5' LT	Summit Ave	100	
33+80		34+05	30' RT	Summit Ave	125	
34+19		34+29	29' LT	Summit Ave	50	
34+34		34+49	29' LT	Summit Ave	75	
35+65		35+90	29' LT	Summit Ave		14
35+86		36+11	30' RT	Summit Ave	125	
36+54		36+64	29' LT	Summit Ave	50	
40+80		41+05	33.5' LT	Summit Ave	125	
43+67		43+77	33.5 LT	Summit Ave		5.5
44+66		44+87	33.5' LT	Summit Ave		11.5
45+58		45+78	31' RT	Summit Ave		11
46+03		46+13	33.5' LT	Summit Ave		5.5
46+66		46+76	31' RT	Summit Ave		5.5
47+18		47+33	25' RT	Summit Ave		8.5
47+30		47+45	33.5' LT	Summit Ave		8.5
48+18		48+35	31.5' LT	Summit Ave		9.5
48+85		49+00	24.5' RT	Summit Ave		8.5
49+96		50+11	24.5' RT	Summit Ave		8.5
51+76		51+93	33' LT	Summit Ave		9.5
52+28		52+43	33' LT	Summit Ave		8.5
52+93		53+08	32.5' LT	Summit Ave		8.5
53+75		53+95	32' LT	Summit Ave		11
56+58		56+78	31' LT	Summit Ave		11
57+28		57+43	31' LT	Summit Ave		8.5
64+80		64+96	31' LT	Summit Ave		8
71+09		71+34	35' LT	Summit Ave		14
				Totals	2120	214.5 *

* BID ITEM 416.0260 IS ALSO LISTED IN THE DRIVEWAYS, SCHEDULE AND THAT QUANTITY IS NOT INCLUDED IN THIS TOTAL. THE TOTAL QUANTITY FOR THIS PROJECT IS 673 SY.

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STORM SEWER PIPES

											Storm Sewer Pipe Reinf Conc Class V 12-Inch	Storm Sewer Pipe Reinf Conc Class IV 15-Inch	Concrete Collar	Joint Ties (Reference only)
											608.0512	608.0415	520.8000	
Station	to	Station	LT/RT	Location	Description	From Str	To Str	Inv Up	Inv Down	Slope	L.F.	L.F.	EA	EA
43+01		43+50	RT	Summit Ave	P2.0	2.0	2.1	870.62	870.13	1.00%	49			
60+25		60+31	LT	Summit Ave	P3.0	3.0	3.1	900.52	900.47	0.50%		9		
61+54		61+60	LT	Summit Ave	P4.0	4.0	Collar	902.89	902.85	0.69%		6	1	2
61+60		61+75	LT	Summit Ave	P4.1	Collar	4.0	902.85	902.94	0.61%		15	1	2
63+46		63+52	LT	Summit Ave	P5.0	Collar	5.0	904.12	904.08	0.61%		6	1	2
63+50		63+52	LT	Summit Ave	P5.1	5.0	Collar	904.69	904.61	1.28%	6		1	2
68+69		68+73	LT	Summit Ave	P6.0	Collar	6.0	903.6	903.42	3.00%	6		1	2
86+73		68+78	LT	Summit Ave	P6.1	6.0	Collar	903.26	903.15	1.90%	6		1	2
										Totals	67	36	6	12*

* JOINT TIES ARE INCIDENTAL TO THE COST OF PIPE INSTALLATION

STORM SEWER STRUCTURES

					Catch Basins 3-ft Diameter	Catch Basins 4-ft Diameter	Manholes 5x5-ft	Manholes 5-ft Diameter	Inlet Covers Type A	Inlet Covers Type WM	Cover/Grate Elevation	Discharge Invert Elevation	Depth (feet)
					611.1003	611.1004	611.2055	611.2005	611.0600	611.0624			
Station	LT/RT	Offset	Location	Description	Each	Each	Each	Each	Each	Each			
43+50	RT	17.1	Summit Ave	2.0		1				1	874.17	870.62	5.8
60+25	LT	25.8	Summit Ave	3.0	1				1		903.43	900.52	4.9
61+59	LT	26.6	Summit Ave	4.0			1			1	906.68	902.89	3.8
63+52	LT	22.5	Summit Ave	5.0			1			1	910.17	904.12	6.1
68+74	LT	26.8	Summit Ave	6.0				1	1		909.34	903.26	6.1
			Totals		1	1	2	1	2	3			

PARTICIPATING ADJUSTMENTS

			Adjusting Manhole Covers (Storm Sewer)	Adjusting Inlet Covers	Manhole Repair	Oconomowoc MH Frame & Cover
			611.8110	611.8115	SPV.0200.01	SPV. 0060.04
Station	Location	Offset	EACH	EACH	V.F.	EACH
42+96	Summit Ave	20 LT	1		1	
43+01	Summit Ave	19 RT		1		
43+02	Summit Ave	33 LT	1			
43+19	Summit Ave	25 LT		1		
43+22	Summit Ave	25 LT		1		
45+48	Summit Ave	20 RT		1		
47+25	Summit Ave	24 LT		1		
47+26	Summit Ave	20 LT	1		1	
47+33	Summit Ave	16 RT		1		
49+90	Summit Ave	16 RT		1		
50+00	Summit Ave	19 LT	1		1	
52+00	Summit Ave	18 LT	1		1	
53+41	Summit Ave	19 LT	1		1	
56+41	Summit Ave	18 LT				1
56+41	Summit Ave	19 LT	1		1	
56+50	Summit Ave	18 RT	1		1	
59+42	Summit Ave	17 LT	1		1	
60+33	Summit Ave	28 LT	1		1	
60+93	Summit Ave	28 LT	1		1	
63+37	Summit Ave	23.5 RT		1		
69+51	Summit Ave	25 RT		1		
69+53	Summit Ave	9 RT	1		1	
73+11	Summit Ave	23 RT	1		1	
			13	9	12	1

PROJECT DETOUR

	Traffic Control (Project)	Traffic Control Detour (Project)
	643.0100	643.2000
Location	EACH	EACH
Summit Ave	1	1
Totals	1	1

TRAFFIC CONTROL AND DETOUR DEVICES

	Traffic Control Detour Signs
	643.3000
Location	Days
Summit Ave	15748
Totals	15748

TRAFFIC CONTROL AND DETOUR DEVICES

			Traffic Control Drums	Traffic Control Barricades Type II	Traffic Control Barricades Type III	Traffic Control Warning Lights Type A	Traffic Control Warning Lights Type C	Traffic Control Signs
			643.0300	643.0410	643.0420	643.0705	643.0715	643.0900
Location	Stage	Duration	Days	Days	Days	Days	Days	Days
Summit Ave	1	1	300	0	240	360		495
Summit Ave	2	1	440	198	440	528		770
Summit Ave	3	1	5418	102	798	504	672	2100
Summit Ave	4	1	5796	114	924	672	924	2100
Totals			11954	414	2402	2064	1596	5465

					Felxible Tubular Marker Posts	Flexible Tubular Marker Bases
					643.0500	643.0600
Station	to	Station	LT/RT	Location	EACH	EACH
51+75		73+87	LT/RT	Summit Ave	168	168
				Totals	168	168

					Dust Control Surface Treatment	Inlet Protection Type C
					623.0200	628.7015
Station	to	Station	LT/RT	Location	SY	EACH
13+34		24+00	LT/RT	Summit Ave		11
30+25		38+20	LT/RT	Summit Ave		6
38+20		45+50	LT/RT	Summit Ave	2339	5
45+50		50+42	LT/RT	Summit Ave	3419	6
51+75		73+87	RT	Summit Ave	5588	6
51+75		73+87	LT	Summit Ave	6746	12
				Totals	18092	46

RESTORATION

					Topsoil	Hydro-Mulching	Fertilizer Type B	Seeding Mixture No. 40	
					625.0100	SPV.0180.01	629.0210	630.0140	
Station	to	Station	LT/RT	Location	SY	SY	CWT	LB	
13+31		21+33	LT/RT	Summit Ave	150.5	150.5	0.09	6	
24+00		30+25	LT/RT	Summit Ave	323	323	0.2	12	
30+25		38+20	LT/RT	Summit Ave	162	162	0.1	7	
38+20		45+50	LT/RT	Summit Ave	284	284	0.18	12	
45+50		50+42	LT/RT	Summit Ave	364	364	0.23	15	
51+75		73+87	LT	Summit Ave	823	823	0.52	34	
51+75		73+87	RT	Summit Ave	603.5	604	0.38	24	
				Totals	2710	2710	1.7	110	

	Mobilization
	619.1000
Location	EACH
Summit Ave	1
Totals	1

	Mobilization Erosion Control	Mobilization Emergency Erosion Control
	628.1905	628.1910
Location	EACH	EACH
Summit Ave	1	4
Totals	1	4

TRACKING PADS

	Tracking Pads
	628.7560
Location	Each
Summit Ave	7
Totals	7

GEOTEXTILE FABRIC

	Geotextile Fabric Type SAS
	645.0140
Location	S.Y.
Summit Ave	11,979
Totals	11,979

CONSTRUCTION STAKING

					Construction Staking Storm Sewer	Construction Staking Subgrade	Construction Staking Base	Construction Staking Curb Ramp	Construction Staking Sidewalk	Construction Staking Curb Gutter & C&G	Construction Staking Resurfacing Ref	Construction Staking Supplemetal Control Project
					650.4000	650.4500	650.5000	SPV.0060.02	SPV.0090.02	650.5500	650.8000	650.9910
Station	to	Station	LT/RT	Location	Each	LF	LF	EACH	LF	LF	LF	L.S.
13+34		30+25	LT/RT	Summit Ave			0			86	1691	
30+25		38+20	LT/RT	Summit Ave			0			0	795	
38+20		45+50	LT/RT	Summit Ave	1	730	730			824		
45+50		50+42	LT/RT	Summit Ave	0	492	492			1198		
51+75		73+87	RT	Summit Ave	0	2212	2212			955		
51+75		73+87	LT	Summit Ave	4	2212	2212			993		
				Totals	5	5646	5646	11	5644	4056	2486	1

PAVEMENT MARKINGS (LINES)

					Pavement Marking Paint 4-Inch		Pavement Marking Paint 4-Inch Broken	Pavement Marking Stop Line Paint 18-Inch	Removing Pavement Markings	Pavement Marking Crosswalk Paint 12-Inch	Temporary Pavement Marking 4-Inch Paint		Temporary Pavement Marking 4-Inch Tape		Temporary Pavement Marking 18-Inch Tape
					646.0103		646.0103	647.0563	646.0600	647.0773	649.0100		649.0400		649.1200
					LF	LF	LF	LF	LF	LF	LF		LF	LF	LF
Station	to	Station	LT/RT	Location	White	Yellow	White	White		White	Yellow		White	Yellow	White
13+34		14+49	LT/RT	Summit Ave		230									
13+35		14+45	RT	Summit Ave	111										
13+35		14+53	L	Summit Ave	118										
14+44		14+54	LT/RT	Summit Ave						38					
14+49		14+60	LT/RT	Summit Ave						42					
14+55		14+81	RT	Cross St						26					
14+56		14+79	RT	Cross St						23					
14+70		15+00	LT	Cross St						30					
14+72		14+98	LT	Cross St						26					
14+73		14+85	LT	Cross St				12							
14+90		14+99	LT/RT	Summit Ave						43					
14+96		15+04	LT/RT	Summit Ave						37					
14+97		19+98	RT	Summit Ave	501										
14+99		20+01	LT/RT	Summit Ave		1004									
15+02		19+98	LT	Summit Ave	496										
20+06		20+06	LT/RT	Summit Ave						29					
20+12		20+12	LT/RT	Summit Ave						33					
20+14		20+36	RT	State St						44					
20+49		22+10	LT/RT	Summit Ave		322									
20+49		22+10	LT	Summit Ave	161										
20+49		22+23	RT	Summit Ave	174										
21+98		22+32	LT/RT	Summit Ave						55					
22+03		22+49	LT/RT	Summit Ave						66					
22+81		23+29	LT/RT	Summit Ave						72					
22+91		23+35	LT/RT	Summit Ave						67					
23+00		23+20	LT/RT	Summit Ave				30							
23+06		24+80	LT	Summit Ave	158										
23+21		28+90	LT/RT	Summit Ave		1138									
23+51		28+90	RT	Summit Ave	540										
25+17		28+90	LT	Summit Ave	373										
28+90		28+90	LT/RT	Summit Ave						28					
28+96		28+96	LT/RT	Summit Ave						29					
29+08		29+34	RT	Westover St						56					
29+46		29+46	LT/RT	Summit Ave						29					
29+51		29+52	LT/RT	Summit Ave						28					
29+52		30+25	LT/RT	Summit Ave	146	146									
30+25		31+51	LT/RT	Summit Ave	252	252									
31+51		31+51	LT/RT	Summit Ave						28					
31+56		31+56	LT/RT	Summit Ave						28					
31+75		32+08	LT	Wood St						33					
31+76		32+08	LT	Wood St						32					
32+18		32+18	LT/RT	Summit Ave						29					
32+23		32+23	LT/RT	Summit Ave						27					
32+23		38+18	LT/RT	Summit Ave	1190	1190									
38+18		38+18	LT/RT	Summit Ave						28					
38+25		38+25	LT/RT	Summit Ave						30					
38+32		38+70	RT	Georege ST						38					
38+33		38+68	RT	Georege ST						35					
38+50		38+68	RT	Georege ST				18							
38+85		38+88	LT/RT	Summit Ave						32					
38+90		38+93	LT/RT	Summit Ave						35					
38+92		42+00	LT/RT	Summit Ave		616				37					
38+97		39+34	LT	Lymann St						33					
38+99		39+32	LT	Lymann St				17							
38+99		39+15	LT	Lymann St											
38+93		42+00	RT	Summit Ave	304										
39+51		42+00	LT	Summit Ave	252										
42+24		42+87	LT	Armour Rd						67					
42+28		42+85	LT	Armour Rd						57					
42+33		42+57	LT	Armour Rd				24							
42+87		42+87	LT/RT	Summit Ave						41					
42+92		42+92	LT/RT	Summit Ave						44					
42+92		43+00	LT/RT	Summit Ave		16									
42+92		43+00	RT	Summit Ave	8										
42+92		43+00	LT	Summit Ave	16										
43+00		49+10	LT/RT	Summit Ave		1220									
43+00		49+10	LT	Summit Ave	610										
43+00		49+10	RT	Summit Ave	1220										
49+27		49+87	LT	High St						60					
49+32		49+84	LT	High St						52					
49+37		49+58	LT	High St				21							
49+92		50+42	LT/RT	Summit Ave		157									
51+40		51+70	RT	Forest St										134	
51+76		73+90	LT	Summit Ave							2210				
73+90		77+00	LT	Summit Ave									101		
73+90		77+00	LT/RT	Summit Ave										310	
50+46		77+00	RT	Summit Ave										2557	
51+77		55+70	LT/RT	Summit Ave		1147									
51+78		51+78	LT/RT	Summit Ave				19							
51+77		51+77	RT	Summit Ave											10
51+77		68+74	LT	Summit Ave	1678										
51+77		72+77	RT	Summit Ave	2099										
53+50		55+32	LT/RT	Summit Ave			132								
56+62		77+00	LT/RT	Summit Ave		4428									
59+00		72+05	LT/RT	Summit Ave			371								
70+52		72+77	LT	Summit Ave	184										
72+20		73+86	RT	Summit Ave	165										
73+87		77+00	LT/RT	Summit Ave					626						
73+90		77+00	RT	Summit Ave											
73+90		77+00	LT/RT	Summit Ave									320		
74+00		77+00	LT	Summit Ave			80		80						
74+00		77+00	RT	Summit Ave			80		80						
			Totals		10756	11866	663	141	786	1567	2210		421	3001	10

PAVEMENT MARKINGS (WORDS AND SYMBOLS)

					Pavement Marking Arrows Bike Lane Paint	Pavement Marking Arrows Paint Type 1	Pavement Marking Arrows Paint Type 2	Pavement Marking Arrows Paint Type 3	Pavement Marking Symbols Bike Lane Paint	Pavement Marking Words Paint
					647.0203	647.0153	647.0163	647.0173	647.0303	647.0353
					EACH	EACH	EACH	EACH	EACH	EACH
Station	to	Station	LT/RT	Location	White	White	White	White	White	White
13+34			RT	Summit Ave						
14+25			LT	Summit Ave						
15+25			RT	Summit Ave						
15+50			LT	Summit Ave						
17+25			RT	Summit Ave						
18+00			LT	Summit Ave						
19+75			RT	Summit Ave						
20+25			LT	Summit Ave						
23+29			LT	Summit Ave			1	1		
23+49			LT	Summit Ave						1
23+75			RT	Summit Ave						
23+89			LT	Summit Ave			1	1		
24+09			LT	Summit Ave						1
25+75			LT	Summit Ave						
26+45			RT	Summit Ave						
28+25			LT	Summit Ave						
25+65			RT	Summit Ave						
30+70			RT	Summit Ave						
30+75			LT	Summit Ave						
32+60			LT	Summit Ave						
33+20			RT	Summit Ave						
35+00			LT	Summit Ave						
35+70			RT	Summit Ave						
37+50			LT	Summit Ave						
37+85			RT	Summit Ave						
38+99			RT	Summit Ave					1	
41+49			RT	Summit Ave					1	
41+76			LT	Summit Ave					1	
43+24			RT	Summit Ave					1	
44+01			LT	Summit Ave					1	
45+75			RT	Summit Ave					1	
46+51			LT	Summit Ave					1	
48+25			RT	Summit Ave					1	
49+01			LT	Summit Ave					1	
50+00			RT	Summit Ave					1	
50+06			RT	Summit Ave	1					
50+14			RT	Summit Ave						1
50+26			LT	Summit Ave					1	
51+94			LT	Summit Ave	1					
52+00			LT/RT	Summit Ave		1	1		2	
52+50			LT/RT	Summit Ave						2
53+00			LT/RT	Summit Ave		1	1			
54+00			LT	Summit Ave					1	
54+40			LT/RT	Summit Ave			1			
54+49			RT	Summit Ave					1	
54+60			LT/RT	Summit Ave			1			
56+50			LT	Summit Ave					1	
56+32			LT/RT	Summit Ave			1			
57+00			RT	Summit Ave					1	
57+32			LT/RT	Summit Ave			1			
58+60			LT/RT	Summit Ave			1			
59+00			LT	Summit Ave					1	
59+50			RT	Summit Ave					1	
60+50			LT	Summit Ave					1	
60+90			LT/RT	Summit Ave			1			
61+10			LT/RT	Summit Ave			1			
62+00			LT/RT	Summit Ave					2	
63+40			LT/RT	Summit Ave			1			
63+60			LT/RT	Summit Ave			1			
64+00			LT	Summit Ave					1	
64+50			RT	Summit Ave					1	
65+90			LT/RT	Summit Ave			1			
66+00			LT	Summit Ave					1	
66+10			LT/RT	Summit Ave			1			
67+00			RT	Summit Ave					1	
68+40			LT/RT	Summit Ave			1			
68+50			LT	Summit Ave					1	
68+60			LT/RT	Summit Ave			1			
69+50			RT	Summit Ave					1	
70+90			LT/RT	Summit Ave			1			
71+00			LT	Summit Ave					1	
71+10			LT/RT	Summit Ave			1			
			Totals		2	2	19	2	29	5

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SAWCUTTING

						Sawing Asphalt	Sawing Concrete
						690.015	690.025
Station	to	Station	LT/RT	Location	Description	LF	LF
13+34		13+34	LT/RT		Summit Avenue	39	
14+56		14+79	RT		Cross Street	23	
14+75		14+97	LT		Cross Street	23	
15+60		16+02	LT		Private Drive		44.5
17+23		17+34	LT		Private Drive	11	
17+70		17+81	RT		Private Drive		11
18+06		18+15	RT		Private Drive	9	
18+48		18+67	RT		Private Drive	19	
20+14		20+36	RT		State Street	22	
20+18		20+57	LT		Private Drive		22
22+00		22+34	LT		Silver Lake Street	43	
23+01		23+30	RT		Silver Lake Street	36	
25+21		25+52	LT		Private Drive	32	
25+54		25+66	RT		Private Drive		14
26+18		26+33	RT		Private Drive		10
27+03		27+18	RT		Private Drive		7.5
29+08		29+34	RT		Westover Street	26	
29+26		29+40	LT		Private Drive	14	
12+80		30+25	LT/RT		Sidewalk	39	623
12+80		30+25	LT/RT		Curb and Gutter	235	75
Stage 1: Totals						571	807
30+39		30+49	LT		Private Drive	10	
30+56		30+66	LT		Private Drive	10	
31+76		32+08	LT		Wood Street	32	
30+81		31+05	RT		Private Drive		24.5
31+62		31+74	RT		Private Drive		8
33+39		33+58	LT		Private Drive		22.5
33+79		34+06	RT		Private Drive		28.5
35+65		35+92	LT		Private Drive		15.5
35+85		36+10	RT		Private Drive		25.5
30+25		38+20	LT/RT		Sidewalk	55	307
30+25		38+20	LT/RT		Curb and Gutter	83	35
38+20		43+55	LT		Wood Street	32	
38+31		38+68	RT		George Street	37	
38+99		39+31	LT		Lymann Street	32	
40+79		41+02	LT		Private Drive	21	25
42+62		42+90	LT		Armour Road	37	
38+20		43+55	LT/RT		Sidewalk		541
38+20		43+55	LT/RT		Curb and Gutter		25
Stage 2: Totals						349	1057.5
44+67		44+87	LT		Private Drive		20
46+02		46+14	LT		Private Drive		12
47+32		47+45	LT		Private Drive	14	17
48+21		48+35	LT		Private Drive		14
49+05		49+18	RT		Private Drive		12
49+63		49+88	LT		High Street	25	
50+42		50+42	LT/RT		Summit Avenue	39	
43+55		51+75	LT/RT		Sidewalk		334
43+55		51+75	LT/RT		Curb and Gutter		15
51+75		51+75	RT		Summit Avenue	20	
71+36		71+75	RT		Private Drive		36
73+87		73+87	RT		Summit Avenue	24	
51+75		73+87	RT		Sidewalk	75	112
51+75		73+87	RT		Curb and Gutter		57.5
51+75		73+87	LT/RT		Summit Avenue	2032	
Stage 3: Totals						2229	629.5
51+75		51+75	LT		Summit Avenue	24	
52+93		53+09	LT		Private Drive		20.5
53+75		53+95	LT		Private Drive		20.5
55+14		55+45	LT		Private Drive		12
59+42		59+68	LT		Marymere Drive	40	
61+29		61+60	LT		Crest Road	42	
64+80		64+94	LT		Private Drive	15	
68+82		69+11	LT		Wood Drive	44	
70+34		70+65	LT		Maple Lane	41	
73+87		73+87	LT		Summit Avenue	23	
51+75		73+87	LT		Sidewalk	25	245
51+75		73+87	LT		Curb and Gutter		43
Stage 4: Totals						254	341
				Totals		3403	2835

PROOF ROLLING

	Proof Rolling
	SPV.0170
Location	STA.
Summit Ave	116
Totals	116

SIGN REMOVAL

	Sign Removal
	SPV.0105.01
Location	L.S.
Summit Ave	1
Totals	1

PAVEMENT CLEANUP

	Pavement Cleanup
	SPV.0105.02
Location	L.S.
Summit Ave	1
Totals	1

0200 NON-PARTICIPATING WORK

NON-PARTICIPATING ADJUSTMENTS

			Adjusting Sanitary Manhole Covers	Adjusting Valve Boxes	Manhole Repair	Internal/ External seal	Hydrant Relocation	Oconomowoc MH Frame & Cover	Adjusting Electrical Manhole Covers
			SPV.0060.06	SPV.0060.01	SPV.0200.01	SPV.0060.03	SPV.0060.05	SPV.0060.04	SPV.0060.07
Station	Location	Offset	EACH	EACH	V.F.	EACH	EACH	EACH	EACH
38+33.5	Summit Ave	6 LT		1					
38+51	Summit Ave	1 RT	1		1	1		1	
38+58	Summit Ave	1 RT	1			1		1	
38+60	Summit Ave	27 RT	1		1	1		1	
38+61	Summit Ave	25 RT		1					
39+03	Summit Ave	13 LT		1					
39+14	Summit Ave	0	1		1	1		1	
39+23	Summit Ave	27 LT		1					
40+27	Summit Ave	4 RT		1					
40+35	Summit Ave	6 RT		1					
40+40	Summit Ave	6 LT	1		1	1		1	
40+49	Summit Ave	3 RT		1					
41+94	Summit Ave	10 RT							1
42+25	Summit Ave	4 LT	1		1	1		1	
42+34	Summit Ave	35 LT		1					
42+36	Summit Ave	18 LT	1		1	1		1	
42+40	Summit Ave	40 LT		1					
42+70	Summit Ave	56 LT	1		1	1		1	
45+74	Summit Ave	4 LT	1		1	1		1	
45+84.5	Summit Ave	13 RT		1					
49+25	Summit Ave	13 RT		1					
49+25	Summit Ave	5 LT	1						
49+51	Summit Ave	27 LT		1					
49+53	Summit Ave	40 LT	1		1	1		1	
49+65	Summit Ave	39 LT		1					
52+35	Summit Ave	10 RT		1					
53+25	Summit Ave	4 RT	1		1	1		1	
53+33	Summit Ave	14 RT		1					
55+27	Summit Ave	12 RT		1					
56+25	Summit Ave	5 LT	1		1	1		1	
57+56	Summit Ave	4 LT	1		1	1		1	
59+33	Summit Ave	10 RT		1					
59+66	Summit Ave	32 LT		1					
59+69	Summit Ave	5 LT	1		1	1		1	
59+79	Summit Ave	13 RT		1					
60+10	Summit Ave	24 RT	1		1			1	
60+84.5	Summit Ave	10.5 LT		1					
61+18.5	Summit Ave	37 LT		1					
61+30	Summit Ave	9 LT		1					
61+51	Summit Ave	19 LT	1		1			1	
61+63	Summit Ave	10 LT		1					
63+56	Summit Ave	13 RT	1		1			1	
64+07	Summit Ave	22 LT		1					
64+08	Summit Ave	29 LT					1		
65+97.5	Summit Ave	19.5 LT		1					
66+81	Summit Ave	22 LT		1					
66+81	Summit Ave	29 LT					1		
67+08	Summit Ave	12 RT	1		1	1		1	
68+65	Summit Ave	19 LT		1					
68+93.5	Summit Ave	29 LT		1					
69+20	Summit Ave	32.5 LT	1		1			1	
70+00	Summit Ave	20 LT		1					
70+24	Summit Ave	35 LT	1		1			1	
70+29	Summit Ave	12 RT	1		1	1		1	
70+45	Summit Ave	5.5 LT		1					
70+68	Summit Ave	12 LT		1					
72+28.5	Summit Ave	15 LT		1					
73+61	Summit Ave	10.5 LT		1					
			22	33	20	16	2	21	1

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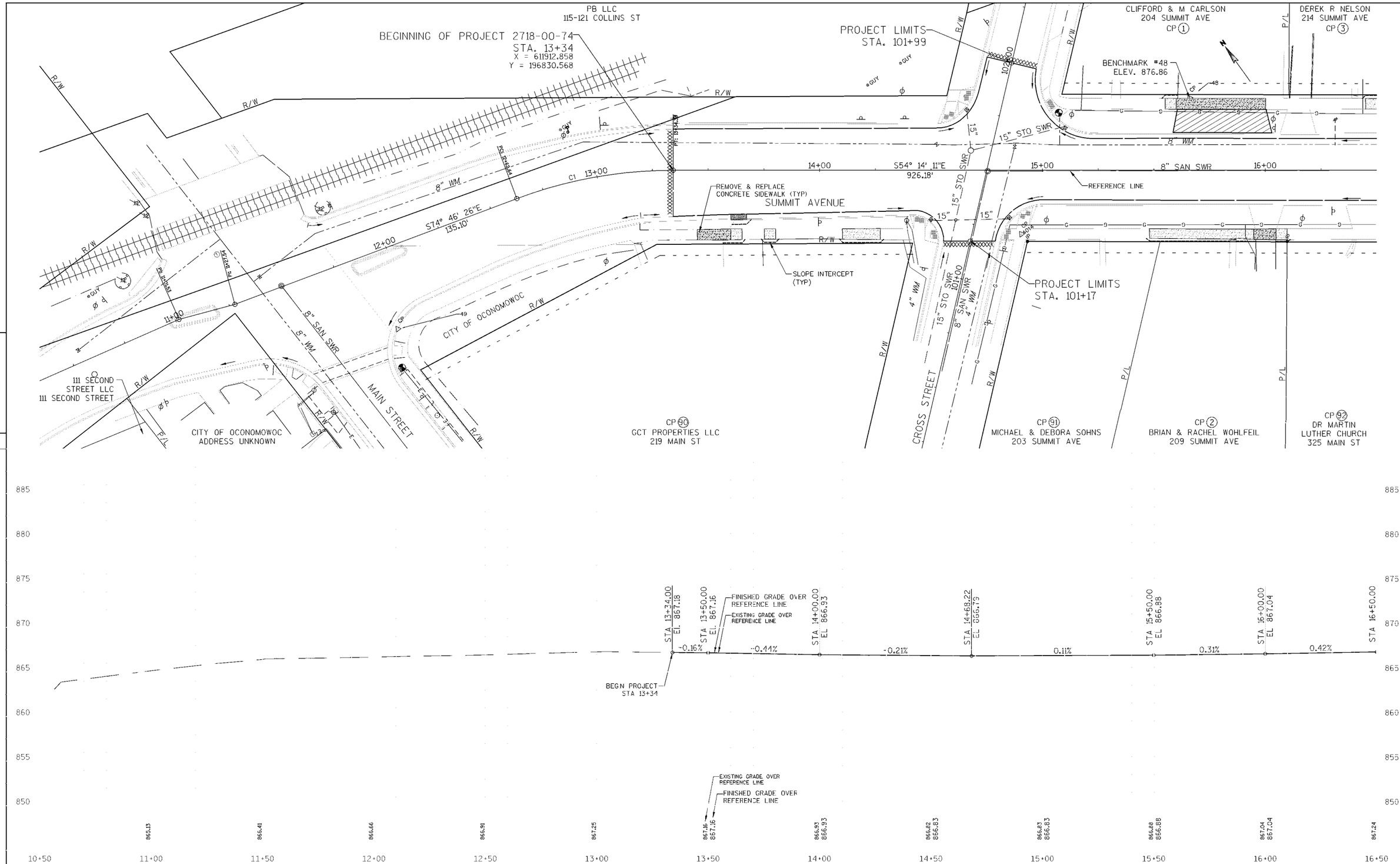

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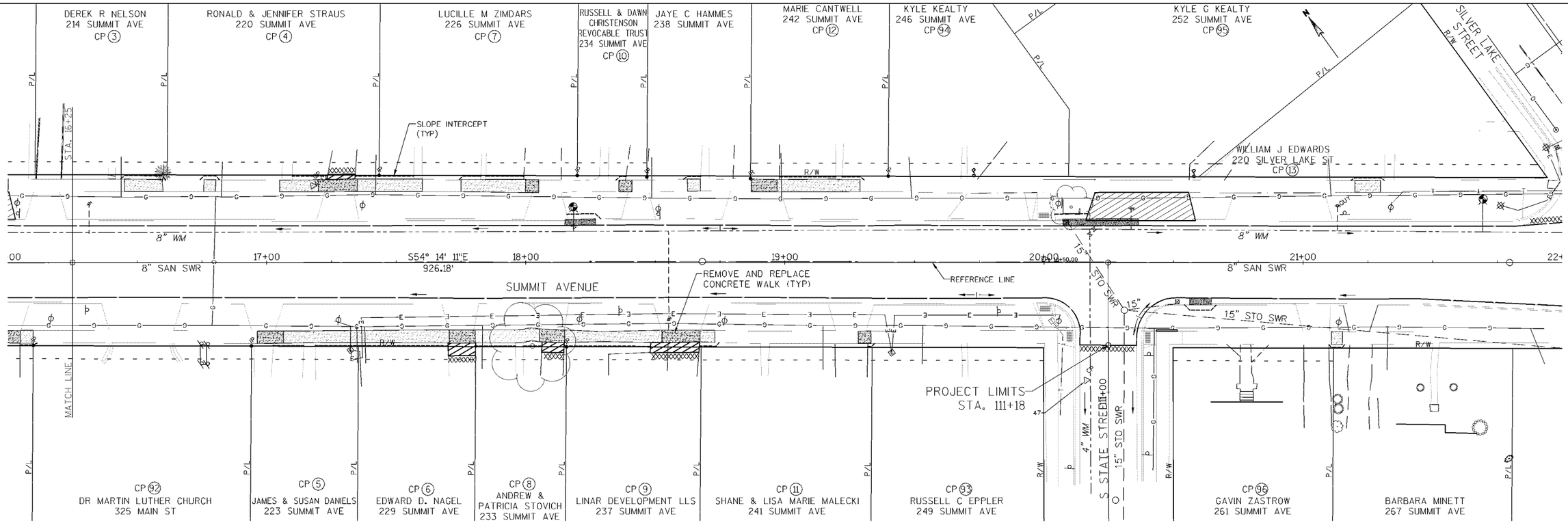
PROJECT NO: 2718-00-74	SUMMIT AVENUE	COUNTY: WAUKESHA	PLAN & PROFILE - SUMMIT AVENUE	SHEET 83	E

FILE NAME : G:\C3D\4792219\DWG\Z-071-SUMMIT AVENUE-01.DWG PLOT DATE : 2/3/2014 9:21 AM PLOT BY : ROTH, WEKER CHRYSA PLOT NAME :Z-071-SUMMIT AVENUE-01.DWG PLOT SCALE : 1"=20'

WISDOT/CADDS SHEET 40



PROJECT NO: 2718-00-74	SUMMIT AVENUE	COUNTY: WAUKESHA	PLAN & PROFILE - SUMMIT AVENUE	SHEET 84	E

FILE NAME : G:\C3D\4792219\DWG\Z-072-SUMMIT AVENUE-02.DWG PLOT DATE : 2/3/2014 9:22 AM PLOT BY : ROTH, PETER PLOT NAME : PLOT SCALE :

WISDOT/CADDS SHEET 40

LINDA FOSTER
302-304 SUMMIT AVE
CP (17)

ARNOLD FOODS CO INC
C/O THOMSON REUTERS TAX SERVICES
1 MEADOW RD
CP (15)

CHERYL MARDEN 1983 TRUST
340 SUMMIT AVE
CP (19)

PROJECT LIMITS
STA. 221+74

PROJECT LIMITS
STA. 221+28

BENCHMARK #46
ELEV. 869.049

BENCHMARK #45
ELEV. 868.43

SECTION LINE

SLOPE INTERCEPT
(TYP)

STA. 27+25

MATCH LINE

REMOVE AND REPLACE
CONCRETE WALK (TYP)

SUMMIT AVENUE

REFERENCE LINE

S54° 14' 11"E
926.18'

S54° 11' 51"E
962.15'

IRENE BOSCHUETZ
TRUST
304 SILVER LAKE ST

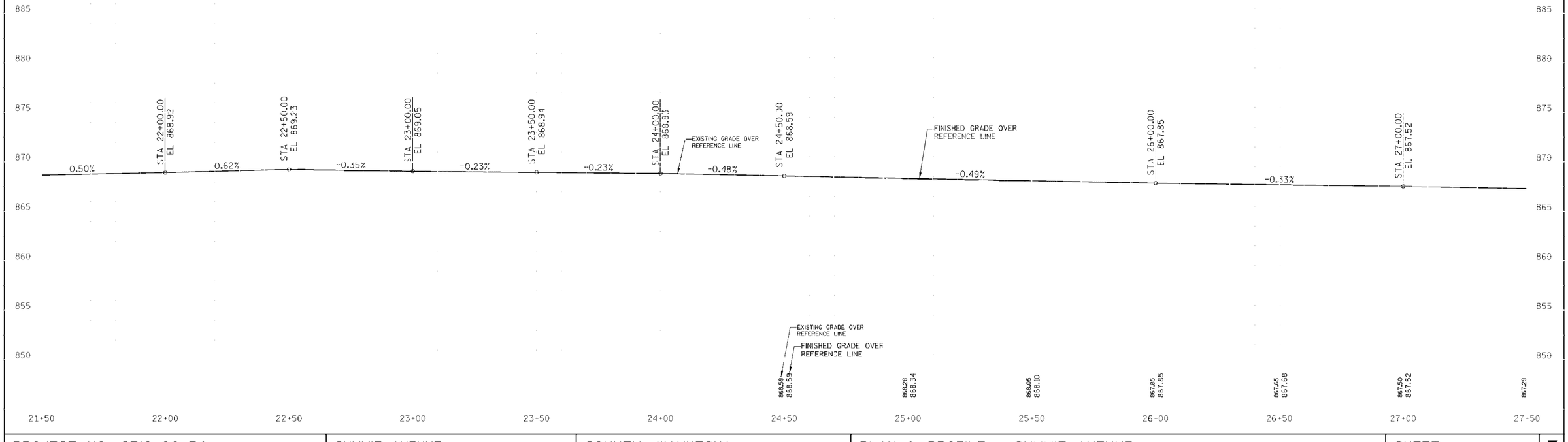
CP (14)
DAVID & MARY MILLER
311 SUMMIT AVE

CP (15)
JOHN & MICHELE
FUEHRER
325 SUMMIT AVE

CP (17)
HARRY & ROSE SNYDER
331 SUMMIT AVE

CP (18)
JEFFREY & ALYCIA BETZ
339 SUMMIT AVE

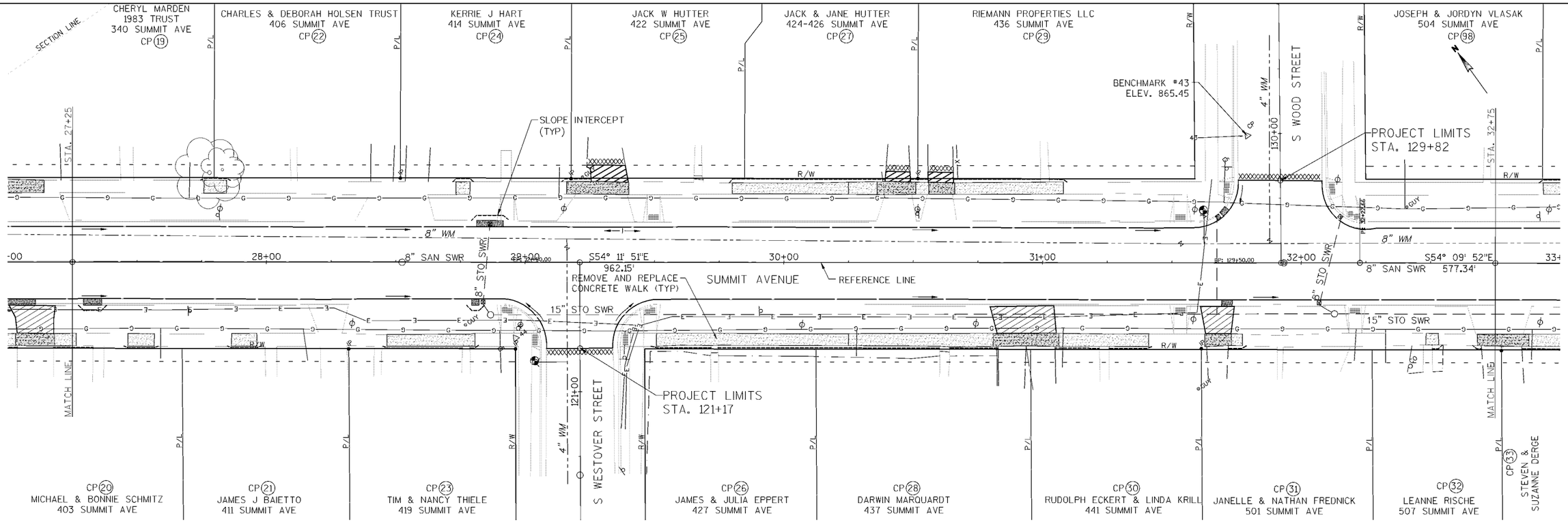
CP (20)
MICHAEL & BONNIE
SCHMITZ
403 SUMMIT AVE

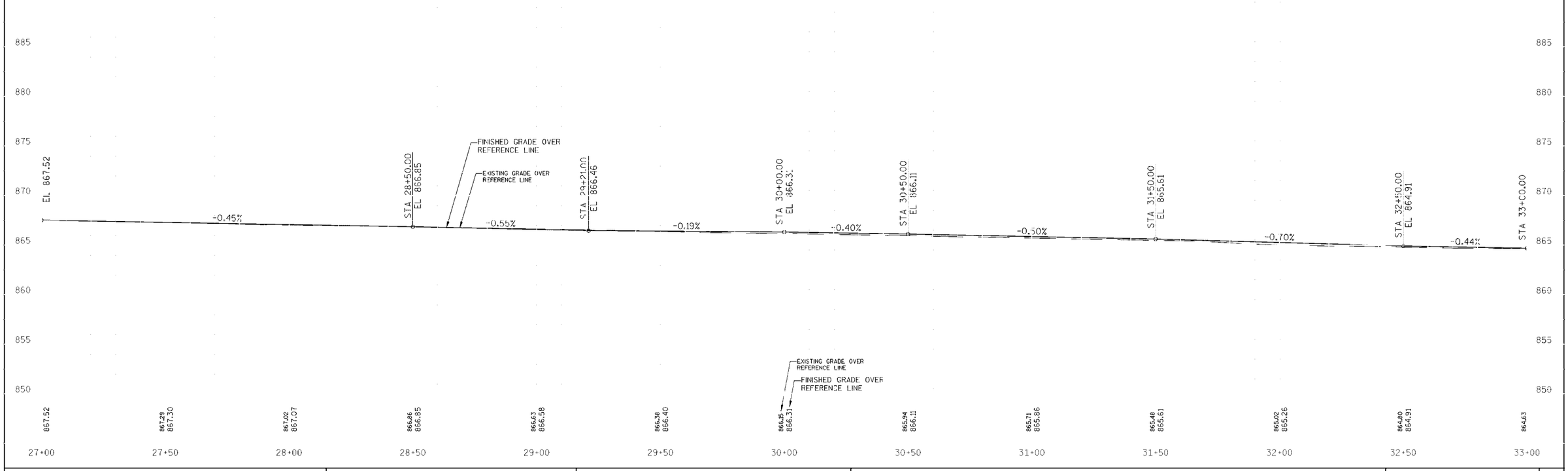


PROJECT NO: 2718-00-74	SUMMIT AVENUE	COUNTY: WAUKESHA	PLAN & PROFILE - SUMMIT AVENUE	SHEET 85	E

FILE NAME : G:\C3D\4792219\DWG\Z-073-SUMMIT AVENUE-03.DWG
PLOT DATE : 2/3/2014 9:23 AM
PLOT BY : ROTH, PETER
PLOT NAME :
PLOT SCALE :

WISDOT/CADDS SHEET 40





PROJECT NO: 2718-00-74	SUMMIT AVENUE	COUNTY: WAUKESHA	PLAN & PROFILE - SUMMIT AVENUE	SHEET 86	E

FILE NAME : G:\C3D\4792219\DWG\Z-074-SUMMIT AVENUE-04.DWG PLOT DATE : 2/3/2014 9:25 AM PLOT BY : ROTH, PETER PLOT NAME : PLOT SCALE :

WISDOT/CADDS SHEET 40

JOSEPH & JORDYN VLASAK
504 SUMMIT AVE
CP 98

JENNIFER TARANTINO
508 SUMMIT AVE
CP 34

GARY & ONETTA KROGMANN
514 SUMMIT AVE
CP 36

PAUL C NIELSON
524 SUMMIT AVE
CP 38

DENNIS & THERESA BALLMAN
530 SUMMIT AVE
CP 40

KARL H LATZKE
538 SUMMIT AVE

MICHAEL & LYDIA SOBOL
546 SUMMIT AVE
CP 43

HELEN NEUMANN & KATHLEEN MEYER
552 SUMMIT AVE
CP 99

STA. 32+75

SLOPE INTERCEPT (TYP)

MILL, REMOVE, & REPAVE

RECONSTRUCT

8" WM

REFERENCE LINE

8" WM

33+00

34+00

35+00

36+00

37+00

38+00

8" STO SWR

8" SAN SWR

S54° 09' 52"E
577.34'

8" SAN SWR

N54° 09' 52"W
95.11'

SUMMIT AVENUE

REMOVE AND REPLACE CONCRETE WALK (TYP)

15" STO SWR

15" STO SWR

8" WM

8" STO SWR

MATCH LINE

BENCHMARK #4005
ELEV. 865.43

12" STO SWR

GEORGE STREET

141+00

CP 32
LEANNE RISCHE
507 SUMMIT AVE

CP 33
STEVEN & SUZANNE DERGE
513 SUMMIT AVE

CP 35
STEVE & SUZANNE DERGE
517 SUMMIT AVE

CP 37
LYNDA KRILL
523-525 SUMMIT AVE

CP 39
LLOYD J & LORETTA COUNSELL FAMILY TRUST
531 SUMMIT AVE

CP 41
MICHAEL J GNEWUCH
539 SUMMIT AVE

CP 42
BRUCE RICHARDS
543 SUMMIT AVE

LOIS A RUMMEL & GENE R LEIDY
553 SUMMIT AVE

CP 44
RYAN L OBOYLE
561 SUMMIT AVE

EL 864.91

STA 33+00.00
EL 864.69

STA 34+50.00
EL 864.36

STA 35+16.00
EL 864.08

STA 36+50.00
EL 864.61

STA 37+50.00
EL 865.45

EVCS: 38+22.00
EVCE: 866.44

-0.44%

-0.22%

-0.42%

0.40%

0.64%

1.37%

FINISHED GRADE OVER REFERENCE LINE

EXISTING GRADE OVER REFERENCE LINE

EXISTING GRADE OVER REFERENCE LINE

FINISHED GRADE OVER REFERENCE LINE

| | | |

STEVEN & RACHEL HARTZELL
562 SUMMIT AVE
CP(45)

STAMAS LLC
606 SUMMIT AVE
CP(47)

SUMMIT PROFESSIONAL CENTER LLC
C/O RANDY PRESTASH
608 SUMMIT AVE
CP(48)

POTENTIAL HAZARDOUS MATERIAL SITE.
ALL WORK ON AND ADJACENT TO THIS PROPERTY (608 SUMMIT AVENUE) SHALL BE CONDUCTED AS STATED IN THE SPECIAL PROVISIONS.

626 SUMMIT LLC
C/O PATRICIA PRESTASH
626 SUMMIT AVE
CP(49)

IGNATIUS & M WETZEL
642 SUMMIT AVE
CP(50)

LYMANN STREET

ARMOUR ROAD

PROJECT LIMITS
STA. 149+92

PROJECT LIMITS
STA. 160+34

PROJECT LIMITS
STA. 141+09

SLOPE INTERCEPT (TYP)

MILL, REMOVE, & REPAVE/RECONSTRUCT

N51° 39' 34"W
127.09'

N54° 09' 52"W
95.11'

REFERENCE LINE

SUMMIT AVENUE

REMOVE & REPLACE CONCRETE SIDEWALK (TYP)

RETAINING WALL

N40° 44' 01"W
229.91'

BENCHMARK #40
ELEV. 876.06

PROP'D 12" STORM SEWER

30" STO SWR
15" STO SWR
27" STO SWR
18" STO SWR
24" STO SWR
15" STC SWR

8" SAN SWR
12" WM
8" WM
6" WM

GEORGE STREET

QUARTER SECTION LINE

MATCH LINE

CP(44)
RYAN L OBOYLE
561 SUMMIT AVE

CP(46)
KEYSTONE DEVELOPMENT
623 SUMMIT AVE

LOW PT STA: 38+22.00
LOW PT ELEV: 866.44
PVI STA: 38+67.00
PVI ELEV: 867.05
K: 26.39
LVC: 90.00

HIGH PT STA: 40+24.00
HIGH PT ELEV: 874.03
PVI STA: 39+99.00
PVI ELEV: 873.36
K: 23.58
LVC: 50.00

HIGH PT STA: 41+25.00
HIGH PT ELEV: 875.91
PVI STA: 41+00.00
PVI ELEV: 875.76
K: 34.43
LVC: 50.00

EVCS: 38+22.00 BVCE: 866.44
EVCS: 39+12.00 EVCE: 869.20
STA 39+50.00 EL 871.02
EVCS: 39+74.00 BVCE: 872.17
EVCS: 40+24.00 EVCE: 874.03
STA 40+50.00 EL 874.72
BVCS: 41+75.00 BVCE: 875.24
EVCS: 41+25.00 EVCE 875.91
STA 41+50.00 EL 876.07
STA 42+00.00 EL 876.02
STA 42+50.00 EL 875.39
STA 43+00.00 EL 874.85
STA 43+50.00 EL 874.74
STA 44+00.00

4.78%
4.78%
2.66%
2.07%
0.62%
-0.10%
-1.26%
-1.08%
-0.22%
0.62%

FINISHED GRADE OVER REFERENCE LINE
EXISTING GRADE OVER REFERENCE LINE

866.14 / 866.44
866.82 / 866.97
868.51 / 868.66
870.95 / 871.02
873.04 / 873.27
874.59 / 874.72
875.51 / 875.67
875.88 / 876.07
875.74 / 876.02
875.33 / 875.39
874.74 / 874.85
874.79 / 874.74
875.03

38+00 38+50 39+00 39+50 40+00 40+50 41+00 41+50 42+00 42+50 43+00 43+50 44+00

PROJECT NO: 2718-00-74	SUMMIT AVENUE	COUNTY: WAUKESHA	PLAN & PROFILE - SUMMIT AVENUE	SHEET 88	E

FILE NAME : G:\C3D\4792219\DWG\Z-076-SUMMIT AVENUE-06.DWG
PLOT DATE : 2/3/2014 9:28 AM
PLOT BY : ROTH, PETER
PLOT NAME :
PLOT SCALE :

WISDOT/CADDS SHEET 40

IGNATIUS & M WETZEL
642 SUMMIT AVE
CP 50

MARK & DEBRA STUKEL
646 SUMMIT AVE
CP 51

JOELLYNN K NEMETH
654 SUMMIT AVE
CP 52

STEPHEN ENTERS & TERRI SCHMIDT
664 SUMMIT AVE
CP 53

JENNIFER A PALMER
676 SUMMIT AVE
CP 56

RONALD & CHERYL WOPPERT
688 SUMMIT AVE
CP 59

SIDNEY & KATHLEEN EARSLEY
694 SUMMIT AVE
CP 61

STA. 43+75

27" STO SWR

12" STO SWR

27" STO SWR

15" STO SWR

15" STO SWR

12" STO SWR

8" WM

8" SAN SWR

8" SAN SWR

44+00

45+00

46+00 N40° 38' 35"W
794.72'

47+00

48+00

49+00

SUMMIT AVENUE

E HIGH STREET

REFERENCE LINE

BENCHMARK #10
ELEV. 875.39

RETAINING WALL

REMOVE AND REPLACE CONCRETE WALK (TYP)

SLOPE INTERCEPT (TYP)

MATCH LINE

CP 46
KEYSTONE DEVELOPMENT
623 SUMMIT AVE

CP 54
MARGARET BIELIK
IRON BUTTERFLY LLC
661 SUMMIT AVE

CP 55
JEFFREY & PENNY AUTER
667 SUMMIT AVE

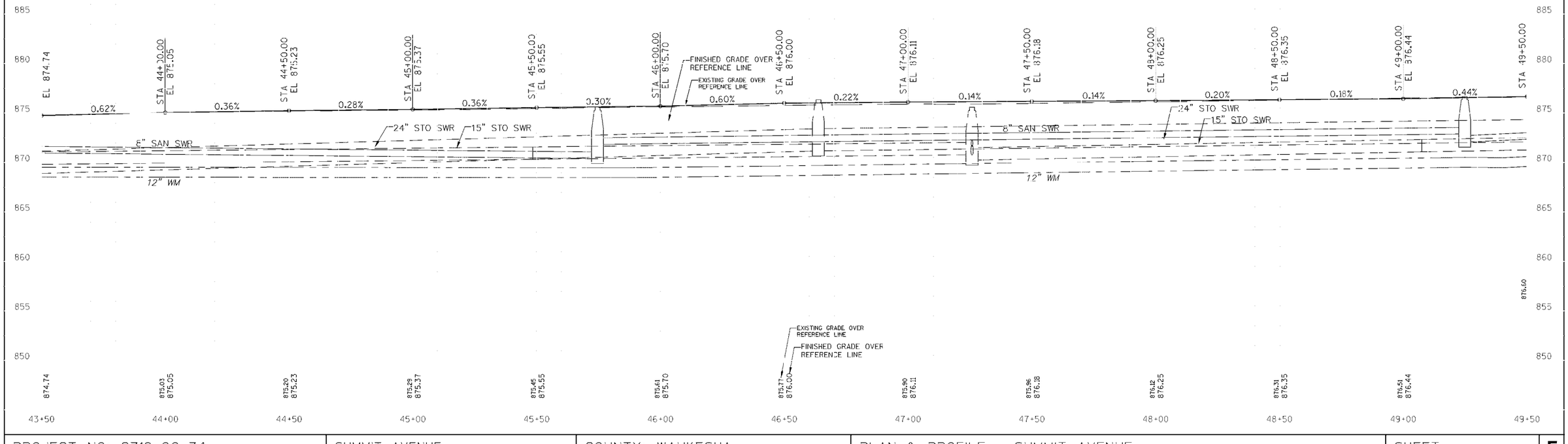
CP 57
MARILYN A KOENIG
673 SUMMIT AVE

CP 58
KATHLEEN E BROWN
679 SUMMIT AVE

CP 60
JOHN & TASSANEE RADTKE
685 SUMMIT AVE

CP 62
GARY & MARY NESHEIM
691 SUMMIT AVE

CP 63
ERON & SARAH EZERINS
695 SUMMIT AVE



PROJECT NO: 2718-00-74	SUMMIT AVENUE	COUNTY: WAUKESHA	PLAN & PROFILE - SUMMIT AVENUE	SHEET 89	E

FILE NAME : G:\C3D\4792219\DWG\Z-077-SUMMIT AVENUE-07.DWG PLOT DATE : 2/3/2014 9:29 AM PLOT BY : ROTH, PETER PLOT NAME : PLOT SCALE :

WISDOT/CADDS SHEET 40

SIDNEY & KATHLEEN EARSLEY
694 SUMMIT AVE
CP(61)

BAIETTO TRUST
712-714 SUMMIT AVE
CP(65)

STEPHEN GROSS & C MRAZ
724 SUMMIT AVE

JUDITH C WALLACE
730 SUMMIT AVE
CP(67)

NICHOLAS & REBECCA THOMPSON
738 SUMMIT AVE
CP(68)

SANDRA SOLHEIM
746 SUMMIT AVE
CP(70)

ADELINE KEMPKEN
754 SUMMIT AVE

E HIGH STREET

PROJECT LIMITS
STA. 170+32

NET EXCEPTION TO CENTERLINE
STA. 51+75

NET EXCEPTION TO CENTERLINE
STA. 50+42

WORK TO BE COMPLETED BY OTHERS

27" STO SWR

21" STO SWR

STA. 54+75

15" STO SWR

8" SAN SWR

12" WM

50+00

N40° 38' 36"W
794.72'

51+00

N41° 49' 57"W
62.52'

REFERENCE LINE

52+00

N40° 30' 51"W
941.65'

SUMMIT AVENUE

53+00

54+00

55+

SLOPE INTERCEPT (TYP)

GUY

15" STO SWR

8" WM

8" SAN SWR

8" STO SWR

E FOREST STREET

BENCHMARK #12
ELEV. 883.14

MATCH LINE

OCONOMOWOC UTILITIES

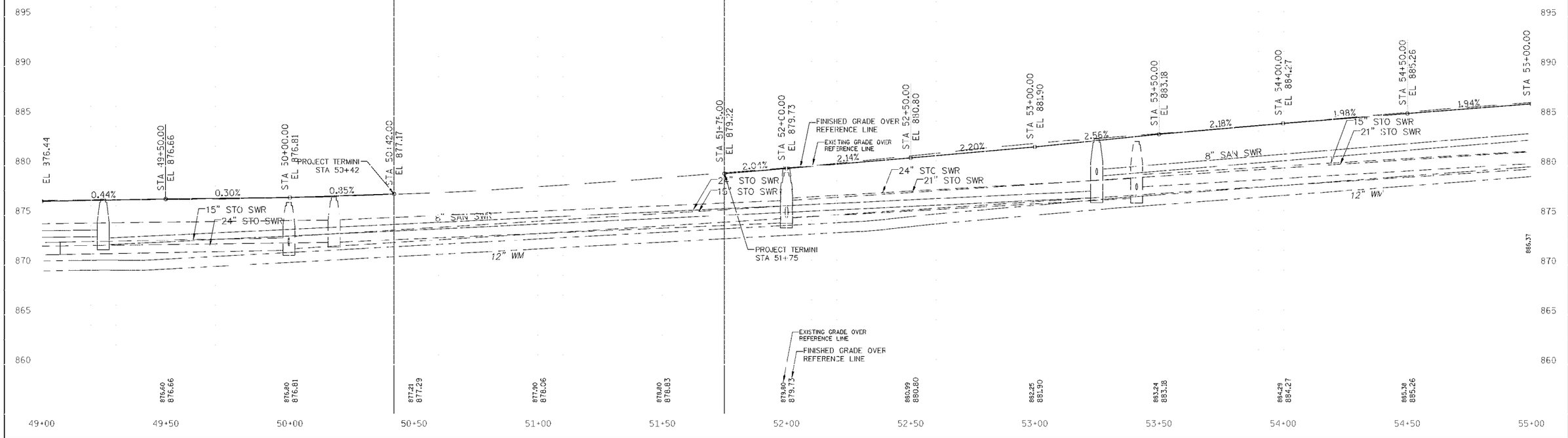
CP(63)
ERON & SARAH EZERINS
695 SUMMIT AVE

CP(64)
KATHYRNE A FOX
701 SUMMIT AVE

CP(66)
RONALD C FURNO
705 SUMMIT AVE

CITY OF OCONOMOWOC
713 SUMMIT AVE

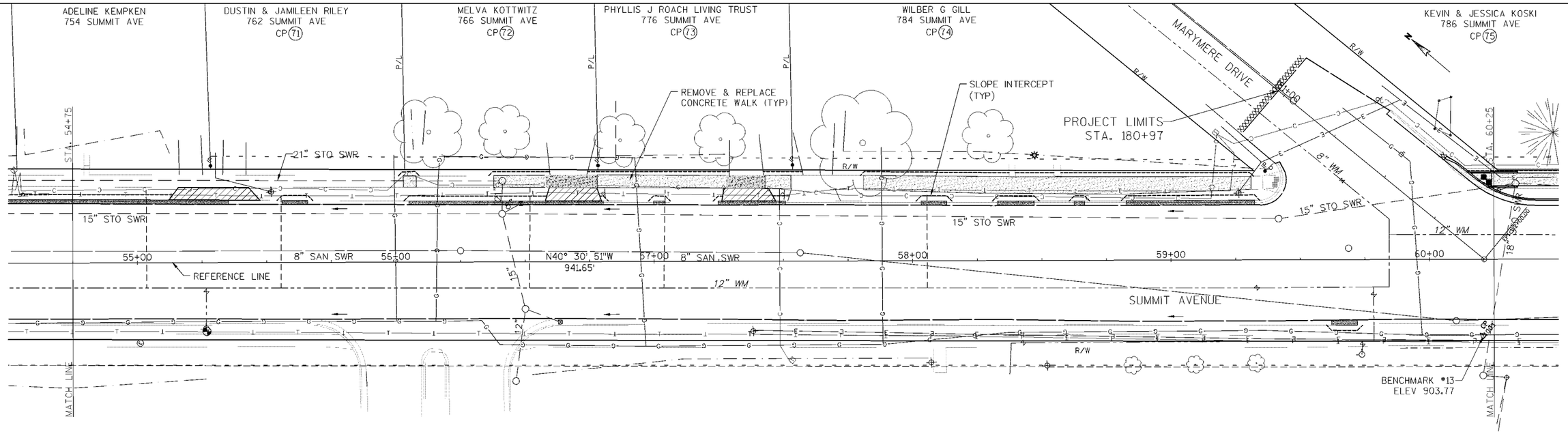
CP(69)
OCONOMOWOC MEM HOSPITAL INC &
MEMORIAL HOSPITAL OF OCONOMOWOC
791 SUMMIT AVE

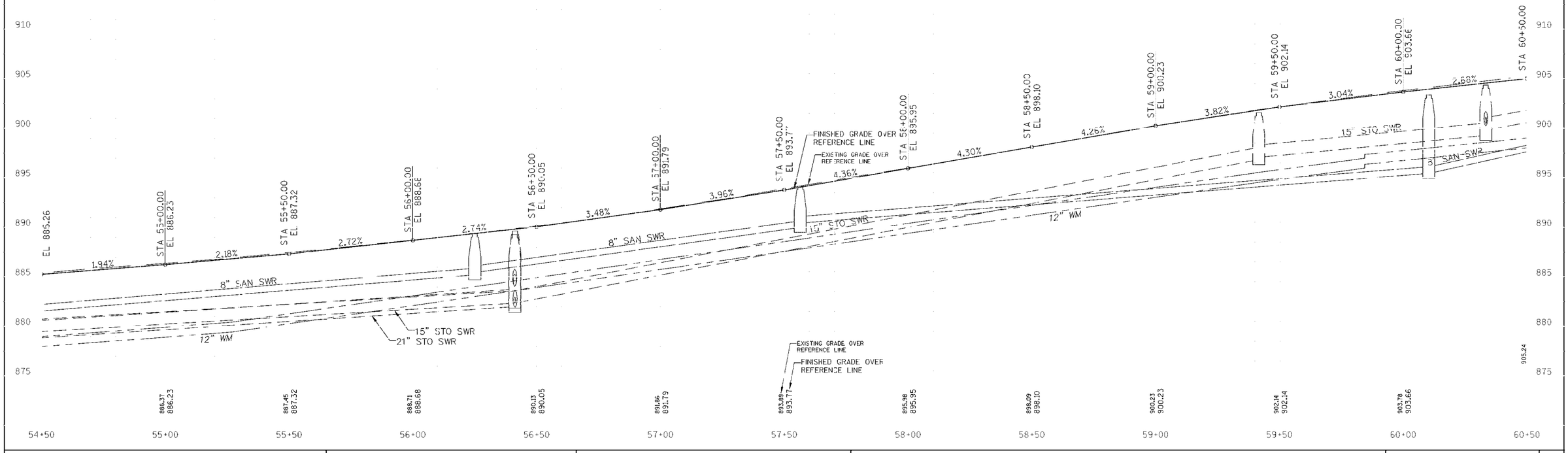


PROJECT NO: 2718-00-74	SUMMIT AVENUE	COUNTY: WAUKESHA	PLAN & PROFILE - SUMMIT AVENUE	SHEET 90	E

FILE NAME : G:\C3D\4792219\DWG\Z-078-SUMMIT AVENUE-08.DWG PLOT DATE : 2/3/2014 9:30 AM PLOT BY : ROTH, PETER PLOT NAME : PLOT SCALE :

WISDOT/CADDS SHEET 40





PROJECT NO: 2718-00-74	SUMMIT AVENUE	COUNTY: WAUKESHA	PLAN & PROFILE - SUMMIT AVENUE	SHEET 91	E

FILE NAME : G:\C3D\4792219\DWG\Z-079-SUMMIT AVENUE-09.DWG PLOT DATE : 2/3/2014 9:32 AM PLOT BY : ROTH, PETER PLOT NAME : PLOT SCALE :

WISDOT/CADDS SHEET 40

KEVIN & JESSICA KOSKI
786 SUMMIT AVE
CP(75)

DALE JOHNSON, CROWN INVESTMENTS PARTNERSHIP, KELLY TRUST
820 SUMMIT AVE A-C
CP(77) CP(78) CP(79)

MATTHEW L LEHMAN
850 SUMMIT AVE
CP(80)

DREAMSCAPE PROPERTIES LLC
870 SUMMIT AVE
CP(81)

PROJECT LIMITS
STA. 190+32

8" STO SWR CREST ROAD

BENCHMARK #14
ELEV. 910.17

STA. 60+25

STA. 65+75

8" STO SWR

8" WM

190+00

PROP'D 15" STO SWR

15" STO SWR

12" WM

PROP'D 12" STO SWR

+00

N40° 30' 51"W
941.65'

61+00

62+00

N40° 45' 27"W
813.35'

63+00

64+00

65+00

66+

REFERENCE LINE

SUMMIT AVENUE

8" SAN SWR

18" STO

#13
3.77

MATCH LINE

REMOVE AND REPLACE
CONCRETE WALK (TYP)

SLOPE INTERCEPT
(TYP)

CP(69)
OCONOMOWOC MEM HOSPITAL INC &
MEMORIAL HOSPITAL AT OCONOMOWOC
791 SUMMIT AVE

CP(76)
SUMMIT AVENUE REALTY LLC
819 SUMMIT AVE

CP(69)
OCONOMOWOC MEM HOSPITAL INC &
MEMORIAL HOSPITAL AT OCONOMOWOC
791 SUMMIT AVE

5

5

EL 903.66

STA 60+50.00
EL 905.00

STA 61+00.00
EL 906.35

STA 61+50.00
EL 907.34

STA 62+00.00
EL 908.08

STA 62+50.20
EL 908.60

STA 63+00.00
EL 909.00

STA 63+50.00
EL 909.45

STA 64+00.00
EL 909.82

STA 64+50.00
EL 910.04

STA 65+00.00
EL 910.27

STA 65+50.00
EL 910.52

STA 66+00.00

2.68%
2.70%
1.98%
1.48%
1.04%
0.80%
0.30%
0.74%
0.44%
0.46%
0.50%
0.50%

FINISHED GRADE OVER REFERENCE LINE
EXISTING GRADE OVER REFERENCE LINE

15" STO SWR
8" SAN SWR
12" WM

EXISTING GRADE OVER REFERENCE LINE
FINISHED GRADE OVER REFERENCE LINE

915
910
905
900
895
890
885
880

905.24 905.00
906.56 906.35
907.57 907.34
908.23 908.08
908.65 908.60
909.44 909.00
909.84 909.45
910.07 909.82
910.39 910.04
910.58 910.27
910.82 910.52
911.07

60+00
60+50
61+00
61+50
62+00
62+50
63+00
63+50
64+00
64+50
65+00
65+50
66+00

PROJECT NO: 2718-00-74	SUMMIT AVENUE	COUNTY: WAUKESHA	PLAN & PROFILE - SUMMIT AVENUE	SHEET 92	E

FILE NAME : G:\C3D\4792219\DWG\Z-080-SUMMIT AVENUE-10.DWG
PLOT DATE : 2/3/2014 9:33 AM
PLOT BY : ROTH, PETER
PLOT NAME :
PLOT SCALE :

DREAMSCAPE PROPERTIES LLC
870 SUMMIT AVE
CP(81)

GERALD & BECKY ZELM
877 WOOD DR
CP(82)

BYRON & RUTH PINSKE
916 MAPLE LN
CP(88)

PROJECT LIMITS
STA. 201+02

PROJECT LIMITS
STA. 210+53

BENCHMARK #15
ELEV. 910.11

WOOD DRIVE

MAPLE LANE

PROP'D 12" STO SWR

PROP'D 12" STO SWR
SUMMIT AVENUE

REFERENCE LINE

REMOVE & REPLACE
CONCRETE SIDEWALK (TYP)

SLOPE INTERCEPT
(TYP)

MATCH LINE

MATCH LINE

CP(69)
OCONOMOWOC MEM HOSPITAL INC &
MEMORIAL HOSPITAL AT OCONOMOWOC
791 SUMMIT AVE

CP(83)
AURORA MEDICAL GROUP INC
889 SUMMIT AVE

CP(85)
AURORA MEDICAL GROUP INC
915 SUMMIT AVE

EL 910.52
STA 66+00.00 EL 910.77
STA 66+50.00 EL 911.02
STA 67+00.00 EL 911.27
STA 67+50.00 EL 911.07
STA 68+00.00 EL 910.81
STA 68+50.00 EL 910.44
STA 69+00.00 EL 909.92
STA 69+50.00 EL 908.90
STA 70+00.00 EL 907.54
STA 70+50.00 EL 906.00
STA 71+00.00 EL 904.53
STA 71+50.00

0.50% 0.50% 0.50% -0.40% -0.52% -0.74% -1.04% -2.04% -2.72% -3.08% -2.94% -2.06%

8" SAN SWR
12" WM
8" SAN SWR
12" STO SWR
12" WM
12" STO SWR
12" WM

FINISHED GRADE OVER REFERENCE LINE
EXISTING GRADE OVER REFERENCE LINE
EXISTING GRADE OVER REFERENCE LINE
FINISHED GRADE OVER REFERENCE LINE

910.52 910.77 911.02 911.27 911.07 910.81 910.44 909.92 908.90 907.54 906.00 904.53 903.57
911.07 910.77 911.27 911.43 911.34 911.05 910.64 909.39 908.96 907.58 906.04 904.71

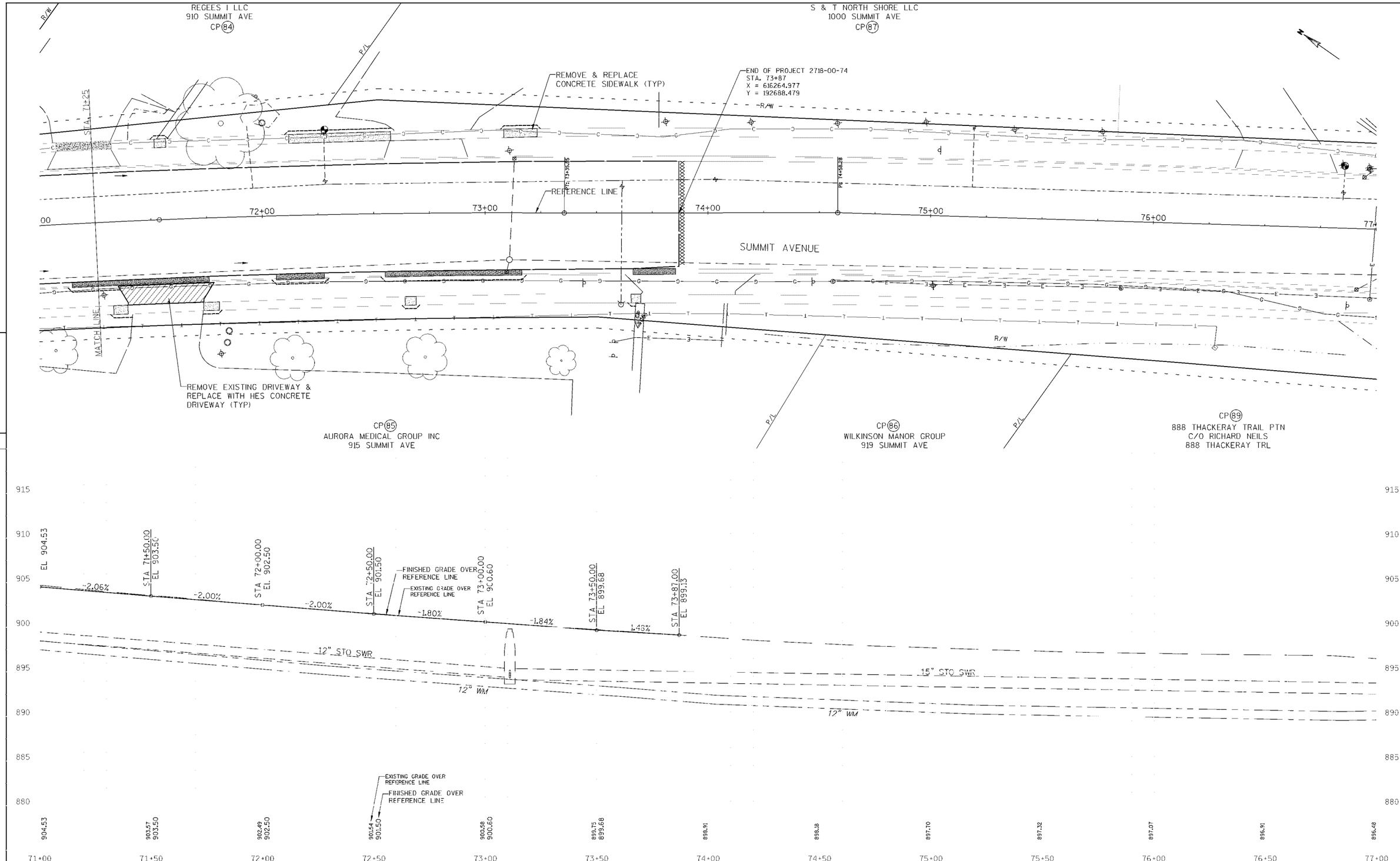
915 910 905 900 895 890 885 880

65+50 66+00 66+50 67+00 67+50 68+00 68+50 69+00 69+50 70+00 70+50 71+00 71+50

PROJECT NO: 2718-00-74	SUMMIT AVENUE	COUNTY: WAUKESHA	PLAN & PROFILE - SUMMIT AVENUE	SHEET 93	E

FILE NAME : G:\C3D\4792219\DWG\Z-081-SUMMIT AVENUE-11.DWG PLOT DATE : 2/3/2014 9:34 AM PLOT BY : ROTH, PETER PLOT NAME : PLOT SCALE :

WISDOT/CADDS SHEET 40

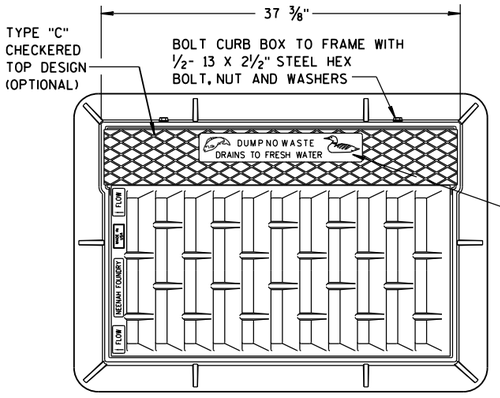


PROJECT NO: 2718-00-74	SUMMIT AVENUE	COUNTY: WAUKESHA	PLAN & PROFILE - SUMMIT AVENUE	SHEET 94	E

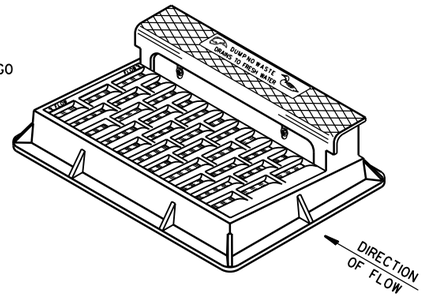
FILE NAME : G:\C3D\4792219\DWG\Z-082-SUMMIT AVENUE-12.DWG PLOT DATE : 2/3/2014 9:36 AM PLOT BY : ROTH, PETER PLOT NAME : PLOT SCALE :

Standard Detail Drawing List

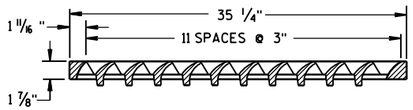
08A05-19A	INLET COVERS TYPE A, H, A-S, H-S & Z
08A05-19B	INLET COVERS TYPE B, B-A, C, MS, MS-A, & WM
08A08-01	CATCH BASINS 3-FT, 4-FT, 5-FT AND 6-FT DIAMETER
08B09-01	MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT AND 8-FT DIAMETER
08B10-01	MANHOLES 3X3-FT, 4X4-FT, 5X5-FT AND 6X6-FT
08D05-15A	CURB RAMPS TYPES 1 AND 1-A
08D05-15B	CURB RAMPS TYPES 2 AND 3
08D05-15C	CURB RAMPS TYPES 4A AND 4A1
08D05-15D	CURB RAMPS TYPE 4B AND 4B1
08D05-15E	CURB RAMPS TYPES 5, 6, 7A, 7B & 8
08D16-10	CONCRETE GUTTER, CURB AND GUTTER AND PAVEMENT TIES
08E10-02	INLET PROTECTION TYPE A, B, C AND D
08E14-01	TRACKING PAD
08F04-07	JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL
08F05-01	CLASS "B" BEDDING FOR CULVERT PIPE OR STORM SEWER
15C02-05A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-05B	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-05C	DETOUR SIGNING FOR MAINLINE CLOSURES
15C03-02	BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
15C05-02	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS
15C07-12B	PAVEMENT MARKING WORDS
15C07-12C	PAVEMENT MARKING ARROWS
15C08-16A	PAVEMENT MARKING (MAINLINE)
15C08-16E	PAVEMENT MARKING (LEFT TURN LANE)
15C11-05	FLEXIBLE TUBULAR MARKER POST, ANCHOR & BASES
15C12-04	TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)
15C19-02A	MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY
15C29-03A	BICYCLE LANE MARKING
15C29-03C	URBAN BICYCLE LANE MARKING
15C29-03D	URBAN BICYCLE LANE MARKING
15C29-03E	PAVEMENT MARKING FOR BIKE LANES
15C33-01	STOP LINE AND CROSSWALK PAVEMENT MARKING
15D30-01	TRAFFIC CONTROL, SIDEWALK CLOSURE

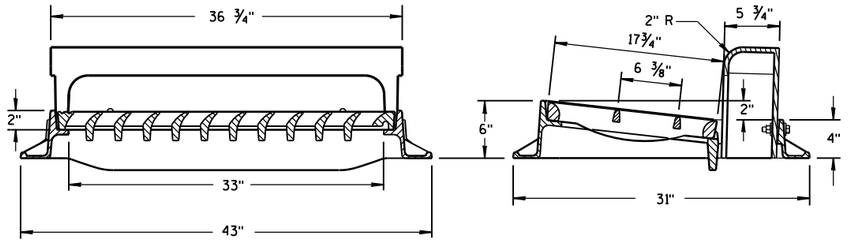


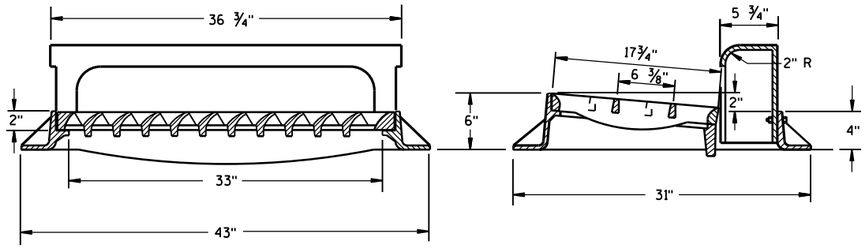
NOTE:
GRATE IS REVERSIBLE.



NOTE: CURB BOX HEIGHT ADJUSTABLE 6" TO 9"

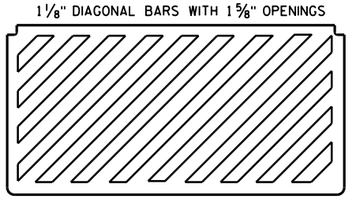






TYPE "H"

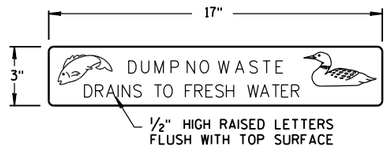
NOTE: EITHER CASTING IS ACCEPTABLE



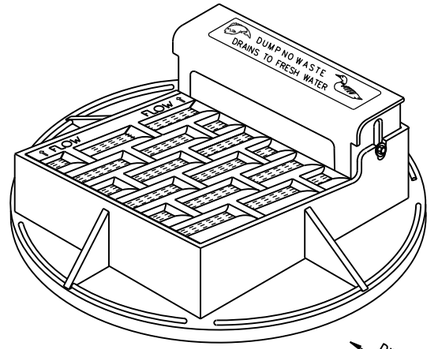
SPECIAL GRATE FOR TYPE "H" COVER

(MEASURES 35 1/4" X 17 3/4" X 2")

(NOTED AS TYPE H-S ON DRAINAGE TABLE)

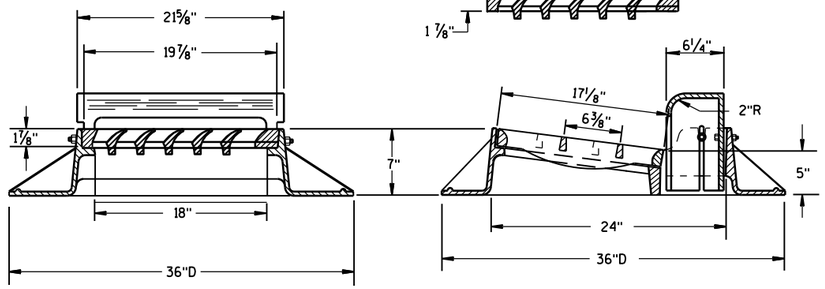


LOGO DETAIL



NOTE: CURB BOX ADJUSTABLE 4" TO 9"

NOTE:
GRATE IS REVERSIBLE.



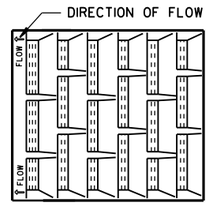
TYPE "A"

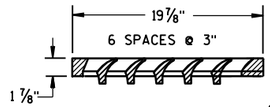
GENERAL NOTES

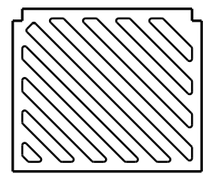
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR CATCH BASIN, MANHOLE AND INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.



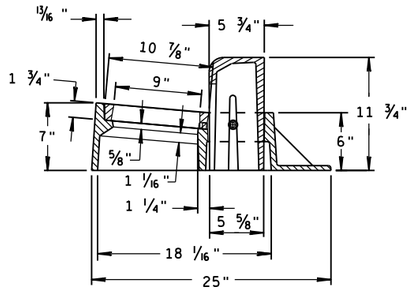


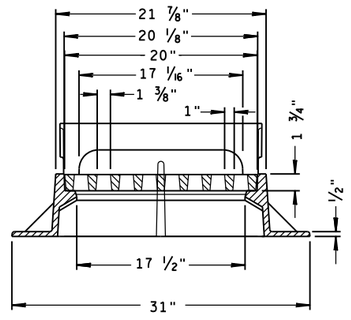


SPECIAL GRATE FOR TYPE "A" COVER

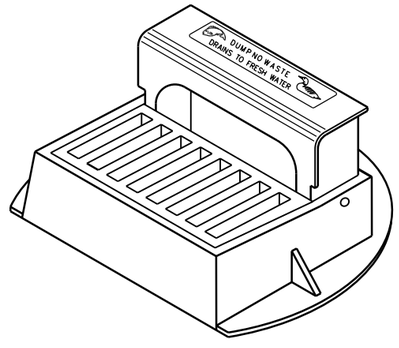
(MEASURES 19 3/4" X 17" X 1 7/8")

(NOTED AS TYPE A-S ON DRAINAGE TABLE)





TYPE "Z"



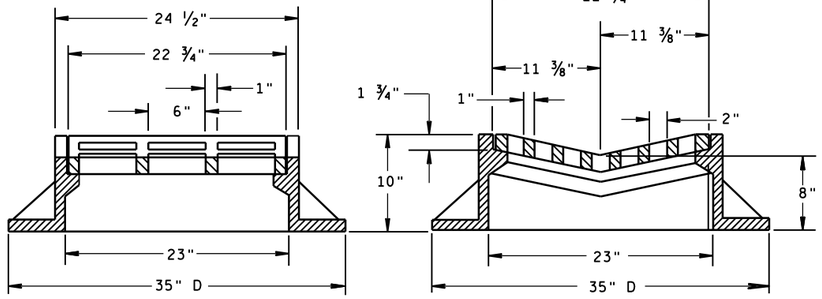
INLET COVERS
TYPE A, H, A-S, H-S & Z

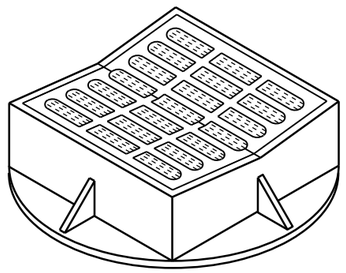
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11-27-13 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER
FHWA

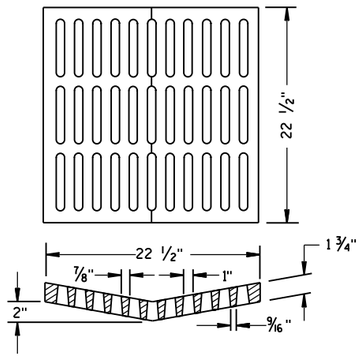
6

S.D.D. 8 A 5-19a



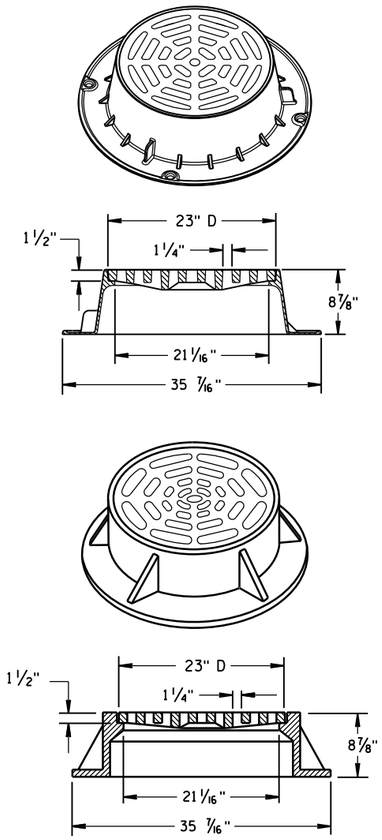


TYPE "B"



ALTERNATIVE GRATE FOR TYPE "B" COVER

USE WHERE PEDESTRIAN OR BICYCLE TRAFFIC IS POSSIBLE.
NOTED AS TYPE B-A ON THE DRAINAGE TABLE



TYPE "C"

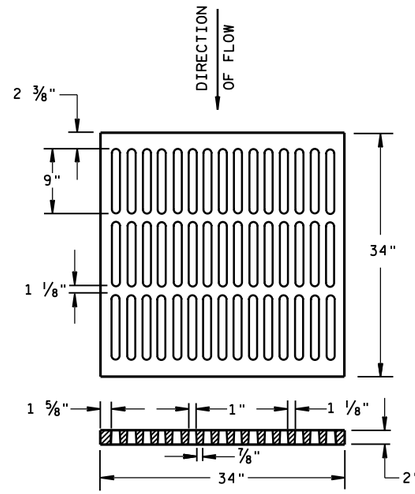
NOTE: EITHER CASTING IS ACCEPTABLE

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

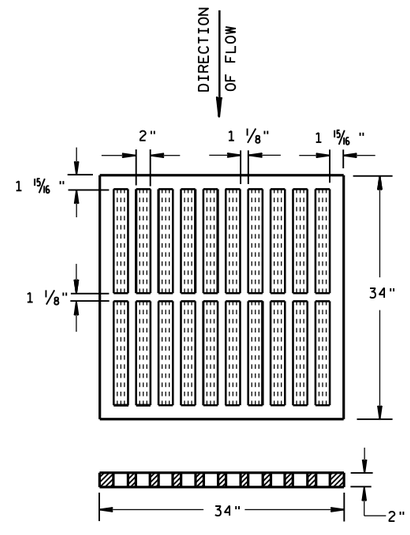
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR CATCH BASIN, MANHOLE AND INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.



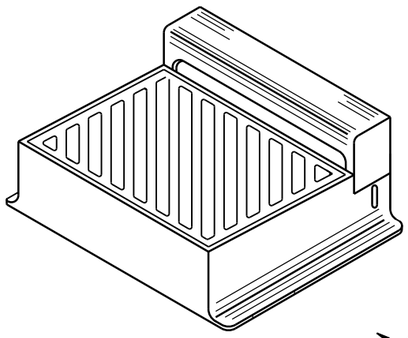
ALTERNATIVE TYPE "MS"

USE WHERE PEDESTRIAN OR BICYCLE TRAFFIC IS PERMITTED
NOTED AS TYPE MS-A ON THE DRAINAGE TABLE

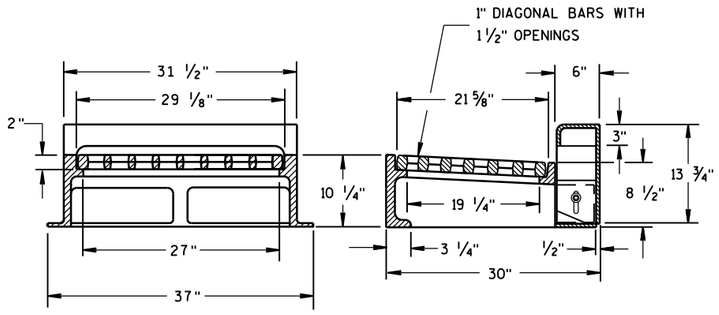


TYPE "MS"

USE ON FREEWAYS AND EXPRESSWAYS
NOTED AS TYPE MS ON DRAINAGE TABLE



DIAGONAL SLOTS, SHALL BE ORIENTED TO THE DIRECTION OF FLOW AS ILLUSTRATED. GRATES ARE MANUFACTURED TO BE REVERSIBLE.



NOTE: CURB BOX HEIGHT ADJUSTABLE 6" TO 9"

TYPE "WM"

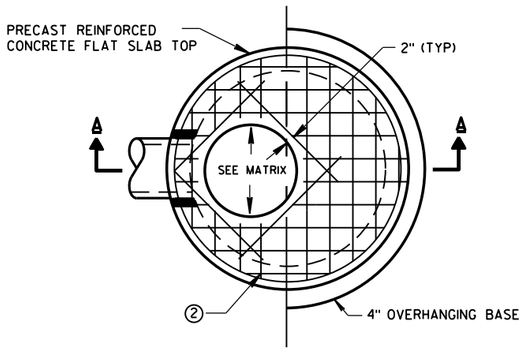
INLET COVERS
TYPE B, B-A, C, MS, MS-A, & WM

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

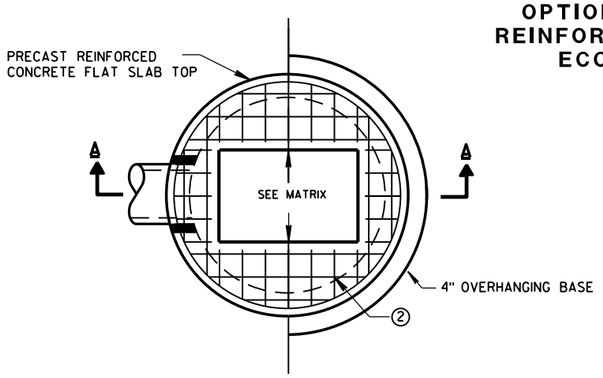
APPROVED
11/27/2013 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER
FHWA

6

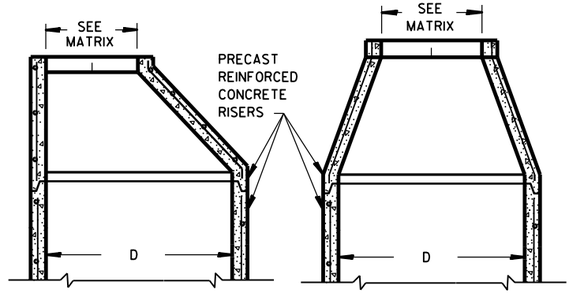
S.D.D. 8 A 5-19b



PLAN VIEW CIRCULAR OPENING

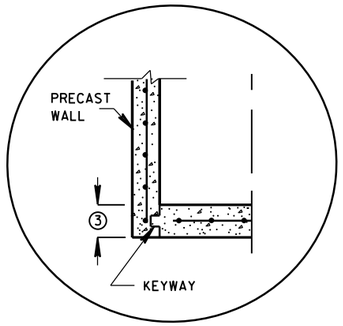


PLAN VIEW RECTANGULAR OPENING

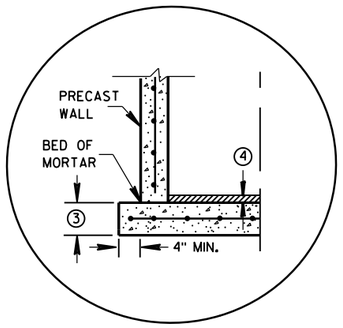


OPTIONAL PRECAST REINFORCED CONCRETE ECCENTRIC TOP

OPTIONAL PRECAST REINFORCED CONCRETE CONCENTRIC TOP

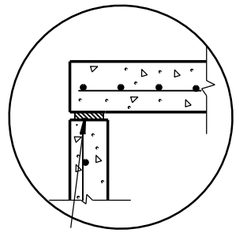


PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE OPTION



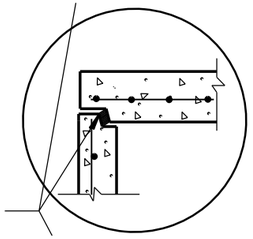
SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

DETAIL "A"

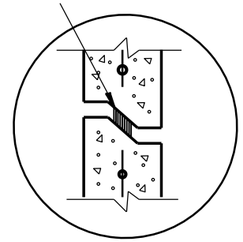


TOP WITH PLAIN END JOINT

JOINTS TO BE SEALED WITH A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS RECOMMENDATIONS CONFORMING TO ASTM C 990 (TYP)

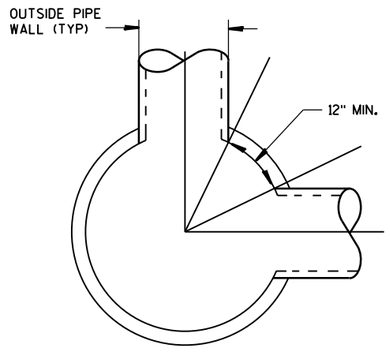


TOP WITH TONGUE AND GROOVE JOINT

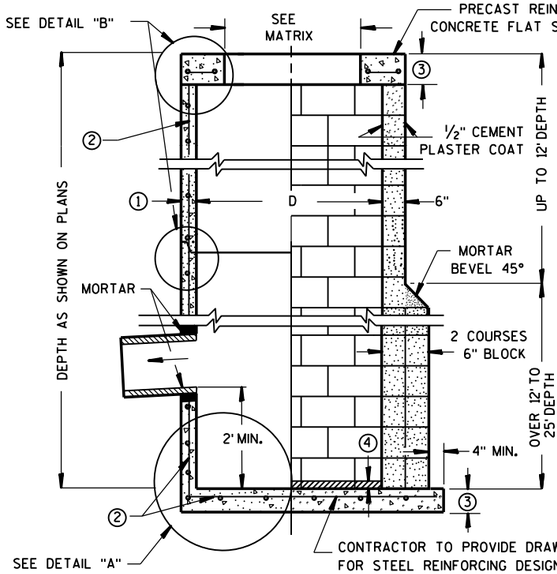


RISER WITH TONGUE AND GROOVE JOINT

DETAIL "B"



DETAIL "C"



CONTRACTOR TO PROVIDE DRAWING(S) STAMPED BY A PROFESSIONAL ENGINEER FOR STEEL REINFORCING DESIGN FOR CAST-IN-PLACE STRUCTURES

SECTION A-A

PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

CONCRETE BLOCK WITH CAST-IN-PLACE OR PRECAST REINFORCED CONCRETE BASE ②

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST CATCH BASIN UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATE THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF GRANULAR BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

PRECAST REINFORCED CONCRETE CONE TOPS (ECCENTRIC OR CONCENTRIC) OR PRECAST REINFORCED CONCRETE FLAT SLAB TOPS MAY BE USED ON CONCRETE BLOCK STRUCTURES. THE TOPS SHALL BE INSTALLED ON A BED OF MORTAR.

ECCENTRIC CONE TOPS MAY BE USED ON ALL STRUCTURES, AND CONCENTRIC CONE TOPS SHALL BE USED ONLY ON STRUCTURES 5 FEET OR LESS IN DEPTH, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

STEPS MEETING AASHTO M199 AND THE FOLLOWING REQUIREMENTS SHALL BE INSTALLED IN ALL STRUCTURES OVER 5 FEET IN DEPTH: 16 INCH C-C MAXIMUM SPACING; PROJECT A MINIMUM CLEAR DISTANCE OF 4 INCHES FROM THE WALL AT THE POINT OF EMBEDMENT; MINIMUM LENGTH OF 10 INCHES; MINIMUM WALL EMBEDMENT OF 3 INCHES. FERROUS METAL STEPS NOT PAINTED OR TREATED TO RESIST CORROSION SHALL HAVE A MINIMUM CROSS SECTIONAL DIMENSION OF 1 INCH.

STEPS OF APPROVED POLYPROPYLENE PLASTIC COATED REINFORCEMENT BAR ARE ACCEPTABLE. REINFORCING BAR MUST BE A MINIMUM OF 1/2 INCH AND MEET THE REQUIREMENTS OF ASTM A615.

CERTIFICATION SHALL BE PROVIDED THAT INSTALLED STEPS WHEN TESTED IN ACCORDANCE WITH SECTION 10 OF AASHTO T280 CAN WITHSTAND A VERTICAL LOAD OF 800 LBS. AND A HORIZONTAL LOAD OF 400 LBS.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M199.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

CONCRETE BLOCK WILL NOT BE PERMITED FOR STRUCTURES GREATER THAN 4 FEET IN DIAMETER.

4" OVERHANGING BASES ARE REQUIRED FOR ALL CONCRETE BLOCK INSTALLATIONS. 4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED. OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

FOR ADDITIONAL CONFIGURATIONS, MAINTAIN A MINIMUM OF 12 INCHES AS MEASURED FROM THE INSIDE OF THE STRUCTURE WALL BETWEEN THE OUTSIDE PIPE WALLS OF ADJACENT PIPES. SEE DETAIL "C".

① MINIMUM WALL THICKNESS SHALL BE 4 INCHES FOR 3-FT, 5 INCHES FOR 4-FT, 6 INCHES FOR 5-FT AND 7 INCHES FOR 6-FT DIAMETER PRECAST CATCH BASINS.

② FOR PRECAST CATCH BASINS PROVIDE REINFORCING STEEL IN ACCORDANCE TO AASHTO M199.

③ PRECAST FLAT SLAB TOPS AND BASES WITH A DIAMETER OF 48" AND LESS SHALL HAVE A MINIMUM THICKNESS OF 6". PRECAST FLAT SLAB TOPS AND BASES WITH A DIAMETER LARGER THAN 48" SHALL HAVE A MINIMUM THICKNESS OF 8".

④ 1" CONCRETE KEY POURED AFTER INSTALLATION. 2' SUMP MEASURED FROM TOP OF KEY.

CATCH BASIN COVER OPENING MATRIX

CATCH BASIN SIZE	INLET COVER TYPE	ALL A'S	ALL B'S	BW	C	F	ALL H'S	S	T	V	WM	Z
	OPENING SIZE (FT)											
3-FT	2X2	X	X					X		X		
	2 DIA.				X							X
4-FT-6-FT	2X2	X	X					X		X		
	2X2.5			X				X	X	X	X	
	2 DIA.				X							X
	2X3						X					
	2.5X3					X						

PIPE MATRIX

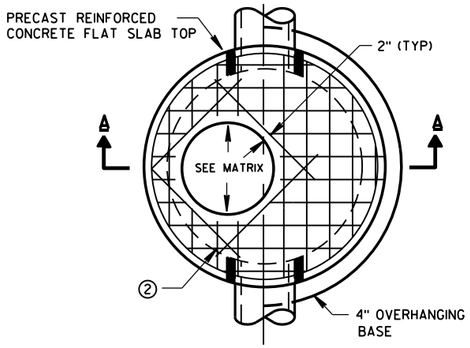
CATCH BASIN SIZE	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES	
	180° SEPARATION (IN)	90° SEPARATION (IN)
3-FT	15	12
4-FT	24	18
5-FT	36	24
6-FT	42	30

CATCH BASINS 3-FT, 4-FT, 5-FT AND 6-FT DIAMETER

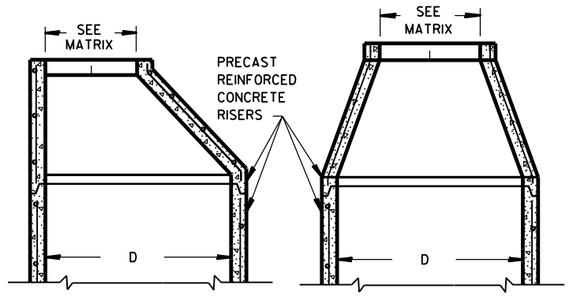
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
6/5/2012 DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS ENGINEER
FHWA

6
S.D.D. 8 A 8-1

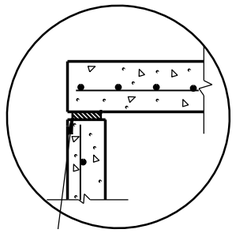


PLAN VIEW CIRCULAR OPENING

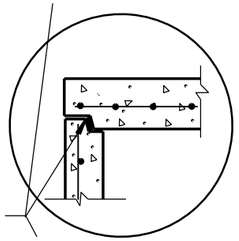


OPTIONAL PRECAST REINFORCED CONCRETE ECCENTRIC TOP

OPTIONAL PRECAST REINFORCED CONCRETE CONCENTRIC TOP

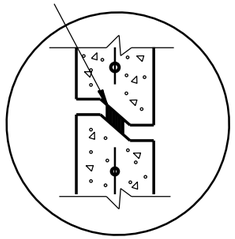


TOP WITH PLAIN END JOINT



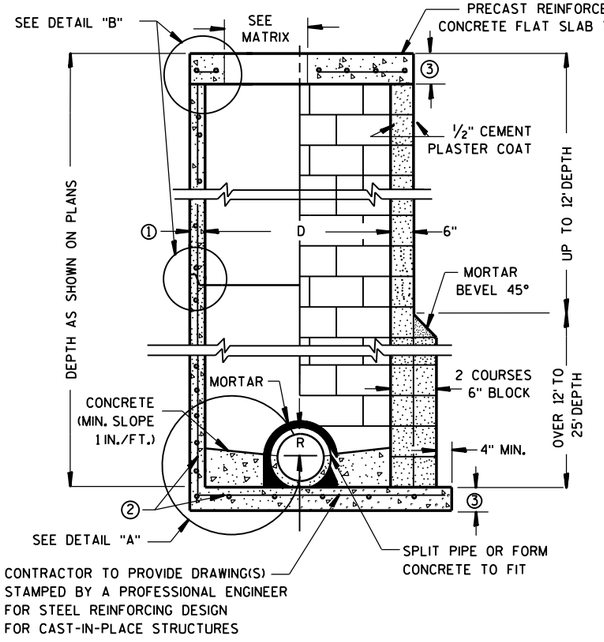
JOINTS TO BE SEALED WITH A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS RECOMMENDATIONS CONFORMING TO ASTM C990 (TYP)

TOP WITH TONGUE AND GROOVE JOINT



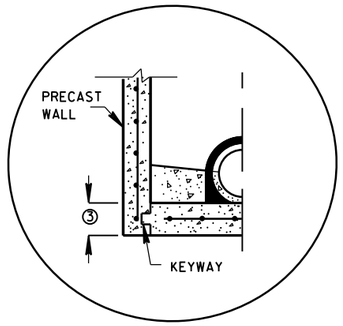
RISER WITH TONGUE AND GROOVE JOINT

DETAIL "B"

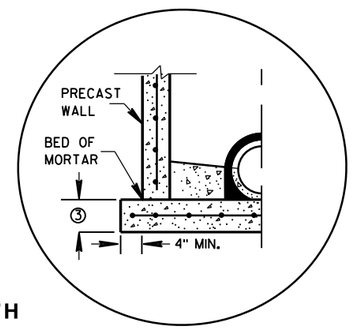


PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

CONCRETE BLOCK WITH CAST-IN-PLACE OR PRECAST REINFORCED CONCRETE BASE ②

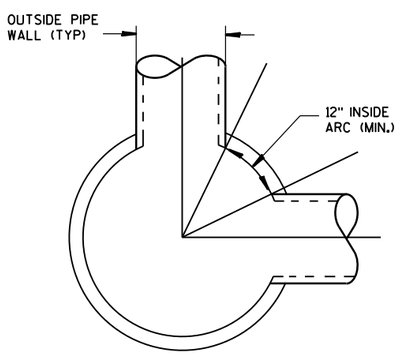


PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE OPTION



SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

DETAIL "A"



DETAIL "C"

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST MANHOLE UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATE THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF GRANULAR BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

PRECAST REINFORCED CONE TOPS (ECCENTRIC OR CONCENTRIC) OR PRECAST REINFORCED FLAT SLAB TOPS MAY BE USED ON CONCRETE BLOCK STRUCTURES. THE CONE TOPS SHALL BE INSTALLED ON A BED OF MORTAR.

ECCENTRIC CONE TOPS MAY BE USED ON ALL STRUCTURES, AND CONCENTRIC CONE TOPS SHALL BE USED ONLY ON STRUCTURES 5 FEET OR LESS IN DEPTH, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

STEPS MEETING AASHTO M199 AND THE FOLLOWING REQUIREMENTS SHALL BE INSTALLED IN ALL STRUCTURES OVER 5 FEET IN DEPTH: 16 INCH C-C MAXIMUM SPACING; PROJECT A MINIMUM CLEAR DISTANCE OF 4 INCHES FROM THE WALL AT THE POINT OF EMBEDMENT; MINIMUM LENGTH OF 10 INCHES; MINIMUM WALL EMBEDMENT OF 3 INCHES. FERROUS METAL STEPS NOT PAINTED OR TREATED TO RESIST CORROSION SHALL HAVE A MINIMUM CROSS SECTIONAL DIMENSION OF 1 INCH.

STEPS OF APPROVED POLYPROPYLENE PLASTIC COATED REINFORCEMENT BAR ARE ACCEPTABLE. REINFORCING BAR MUST BE A MINIMUM OF ½" AND MEET THE REQUIREMENTS OF ASTM A615.

CERTIFICATION SHALL BE PROVIDED THAT INSTALLED STEPS WHEN TESTED IN ACCORDANCE WITH SECTION 10 OF AASHTO T280 CAN WITHSTAND A VERTICAL LOAD OF 800 LBS. AND A HORIZONTAL LOAD OF 400 LBS.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

CONCRETE BLOCK WILL NOT BE PERMITED FOR STRUCTURES GREATER THAN 4 FEET IN DIAMETER.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

ALL PRECAST MANHOLE UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M 199.

4" OVERHANGING BASES ARE REQUIRED FOR ALL CONCRETE BLOCK INSTALLATIONS. 4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED. OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

FOR ADDITIONAL CONFIGURATIONS, MAINTAIN A MINIMUM OF 12 INCHES AS MEASURED FROM THE INSIDE OF THE STRUCTURE WALL BETWEEN THE OUTSIDE PIPE WALLS OF ADJACENT PIPES. SEE DETAIL "C".

① MINIMUM WALL THICKNESS SHALL BE 4 INCHES FOR 3-FT, 5 INCHES FOR 4-FT, 6 INCHES FOR 5-FT, 7 INCHES FOR 6-FT, 8 INCHES FOR 7-FT AND 9 INCHES FOR 8-FT DIAMETER PRECAST MANHOLES.

② FOR PRECAST MANHOLES PROVIDE REINFORCING STEEL IN ACCORDANCE TO AASHTO M199.

③ PRECAST FLAT SLAB TOPS AND BASES WITH A DIAMETER OF 48" AND LESS SHALL HAVE A MINIMUM THICKNESS OF 6". PRECAST FLAT SLAB TOPS AND BASES WITH A DIAMETER LARGER THAN 48" SHALL HAVE A MINIMUM THICKNESS OF 8".

MANHOLE COVER OPENING MATRIX

MANHOLE COVER TYPE	C	ALL J'S	K	L	M
OPENING SIZE (FT)					
2 DIA.	X	X		X	
3 DIA.			X		X

PIPE MATRIX

MANHOLE SIZE	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES	
	180° SEPARATION (IN)	90° SEPARATION (IN)
3-FT	15	12
4-FT	24	18
5-FT	36	24
6-FT	42	36
7-FT	48	36
8-FT	60	42

MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT AND 8-FT DIAMETER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
6/5/2012 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

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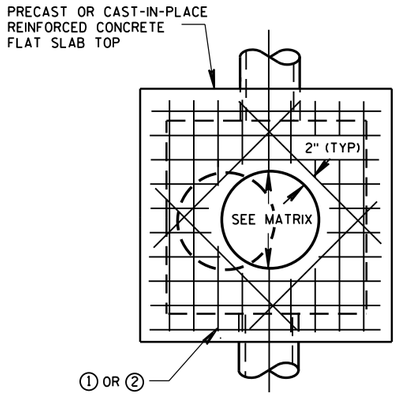
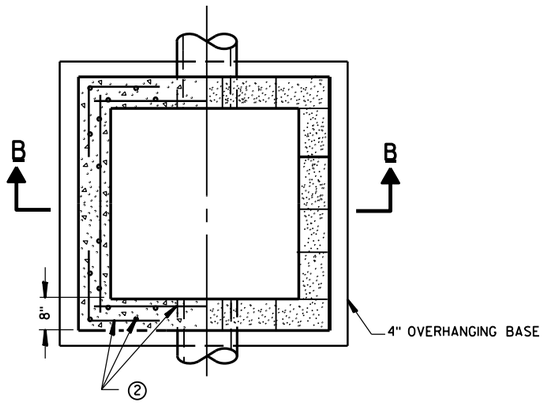
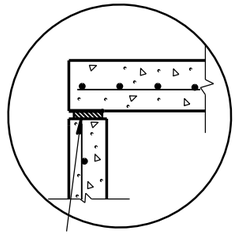
S.D.D. 8 B 9-1



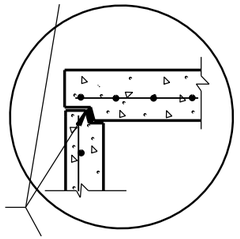
PLAN VIEW
CIRCULAR OPENING



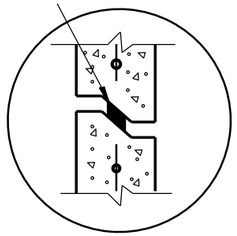
SECTION A-A
PLAN VIEW



TOP WITH PLAIN END JOINT

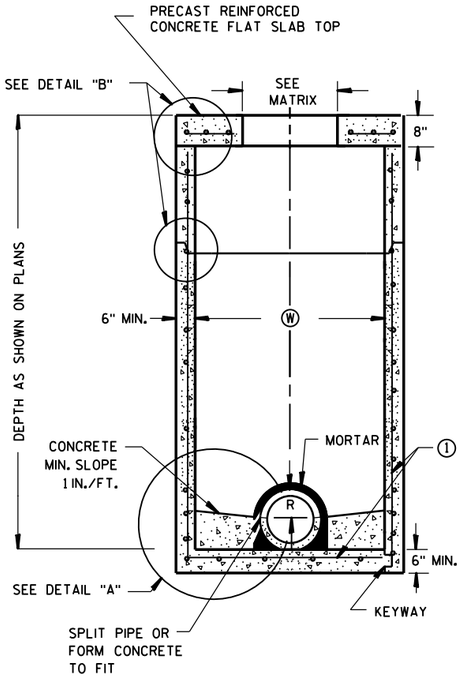


TOP WITH TONGUE AND GROOVE JOINT

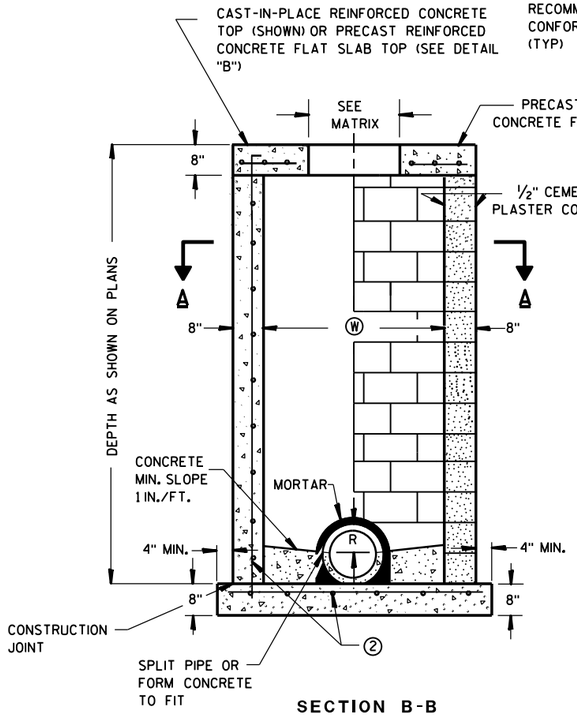


RISER WITH TONGUE AND GROOVE JOINT

DETAIL "B"



PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

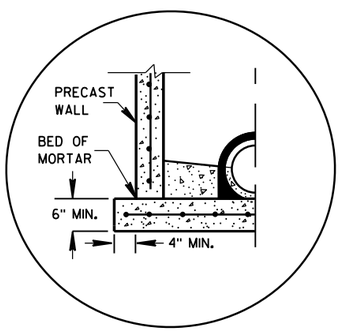


PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE

CAST-IN-PLACE REINFORCED CONCRETE

SECTION B-B

CONCRETE BLOCK WITH CAST-IN-PLACE OR PRECAST REINFORCED CONCRETE BASE



SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

DETAIL "A"

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST MANHOLE UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATE THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF GRANULAR BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

PRECAST REINFORCED FLAT SLAB TOPS MAY BE USED ON CONCRETE BLOCK STRUCTURES. THE TOPS SHALL BE INSTALLED ON A BED OF MORTAR.

STEPS MEETING AASHTO M199 AND THE FOLLOWING REQUIREMENTS SHALL BE INSTALLED IN ALL STRUCTURES OVER 5 FEET IN DEPTH: 16 INCH C-C MAXIMUM SPACING; PROJECT A MINIMUM CLEAR DISTANCE OF 4 INCHES FROM THE WALL AT THE POINT OF EMBEDMENT; MINIMUM LENGTH OF 10 INCHES; MINIMUM WALL EMBEDMENT OF 3 INCHES. FERROUS METAL STEPS NOT PAINTED OR TREATED TO RESIST CORROSION SHALL HAVE A MINIMUM CROSS SECTIONAL DIMENSION OF 1 INCH.

STEPS OF APPROVED POLYPROPYLENE PLASTIC COATED REINFORCEMENT BAR ARE ACCEPTABLE. REINFORCING BAR MUST BE A MINIMUM OF ½ INCH AND MEET THE REQUIREMENTS OF ASTM A615.

CERTIFICATION SHALL BE PROVIDED THAT INSTALLED STEPS WHEN TESTED IN ACCORDANCE WITH SECTION 10 OF AASHTO T280 CAN WITHSTAND A VERTICAL LOAD OF 800 LBS. AND A HORIZONTAL LOAD OF 400 LBS.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

CONCRETE BLOCK WILL NOT BE PERMITED FOR STRUCTURES GREATER THAN 4 FEET IN WIDTH.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

ALL PRECAST MANHOLE UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF ASTM C 913.

4" OVERHANGING BASES ARE REQUIRED FOR ALL CONCRETE BLOCK INSTALLATIONS. 4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED. OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

MAXIMUM PIPE DIAMETER DETERMINED BY 3 INCH CLEARANCE ON EACH SIDE OF THE OUTSIDE WALL OF THE PIPE. SEE DETAIL "C". ASSUMES PIPE ENTERS PERPENDICULAR TO THE STRUCTURE.

① FOR PRECAST MANHOLES PROVIDE REINFORCING STEEL IN ACCORDANCE TO ASTM C 913.

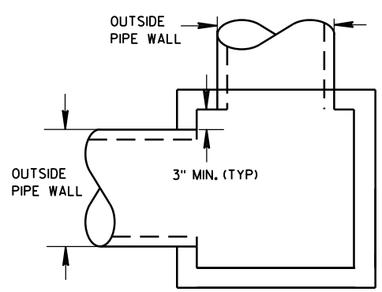
② CONTRACTOR TO PROVIDE DRAWING(S) STAMPED BY A PROFESSIONAL ENGINEER FOR STEEL REINFORCING DESIGN FOR CAST-IN-PLACE STRUCTURES.

MANHOLE COVER OPENING MATRIX

MANHOLE COVER TYPE	C	ALL J'S	K	L	M
OPENING SIZE (FT)					
2 DIA.	X	X		X	
3 DIA.			X		X

PIPE MATRIX

MANHOLE SIZE	MAXIMUM INSIDE PIPE DIAMETER	
	WIDTH (W) (IN)	LENGTH (L) (IN)
3X3-FT	24	24
4X4-FT	30	30
5X5-FT	42	42
6X6-FT	54	54



DETAIL "C"

SQUARE MANHOLES W/ FLAT TOP

MANHOLES 3X3-FT, 4X4-FT, 5X5-FT AND 6X6-FT

MANHOLES 3X3-FT, 4X4-FT 5X5-FT AND 6X6-FT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
6/5/2012 — DATE
/S/ Jerry H. Zoda — ROADWAY STANDARDS ENGINEER
FHWA

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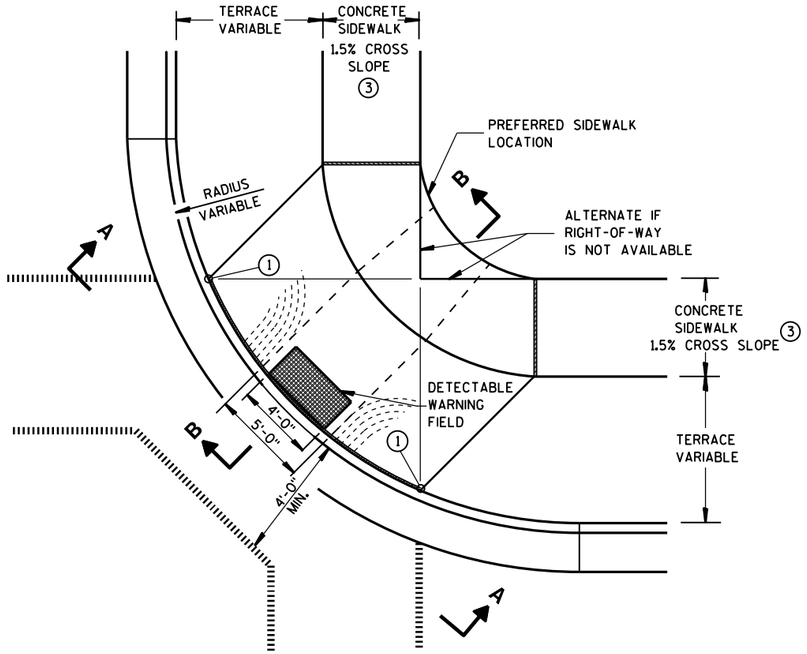
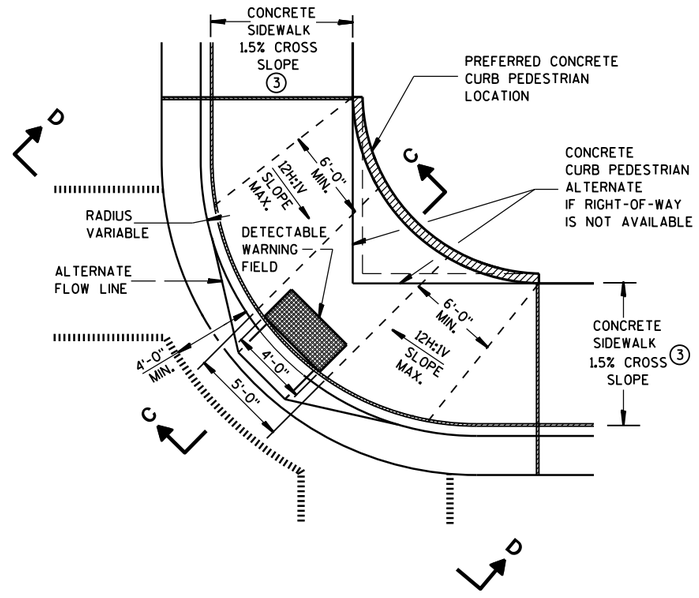


PLAN VIEW

TYPE 1 RAMP

(CENTER OF CORNER RADIUS)



PLAN VIEW

TYPE 1-A RAMP

(NO TERRACE)

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

RAMPS SHALL BE BUILT AT 12H:1V OR FLATTER. WHEN NECESSARY, THE SIDEWALK ELEVATION MAY BE LOWERED TO MEET THE HIGH POINT ON THE RAMP.

TYPE 1 RAMPS SHALL HAVE A NORMAL SIDEWALK APRON AND CURB ON BOTH SIDES OF RAMP.

DETECTABLE WARNING FIELD SHALL BE MEASURED AND PAID BY THE SQUARE FOOT AS "CURB RAMP DETECTABLE WARNING FIELD". THE CONCRETE PEDESTRIAN CURB, IF NEEDED, SHALL BE MEASURED AND PAID BY THE LINEAL FOOT AS "CONCRETE CURB PEDESTRIAN". CONCRETE SIDEWALK IN THE CURB RAMP AREA SHALL BE MEASURED AND PAID BY THE SQUARE FOOT AS CONCRETE SIDEWALK, INCLUDING THE AREA UNDER THE DETECTABLE WARNING FIELD.

SELECT CURB RAMP DETECTABLE WARNING FIELD MATERIALS AND DEVICES FROM THE DEPARTMENT'S APPROVED MATERIALS LIST. THE COLOR OF THE DETECTABLE WARNING FIELD IS SPECIFIED ELSEWHERE AND IS INCIDENTAL TO THE BID ITEM OF "CURB RAMP DETECTABLE WARNING FIELD".

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

SURFACE TEXTURE OF THE RAMP SHALL BE OBTAINED BY COARSE BROOMING TRANSVERSE TO THE SLOPE OF THE RAMP.

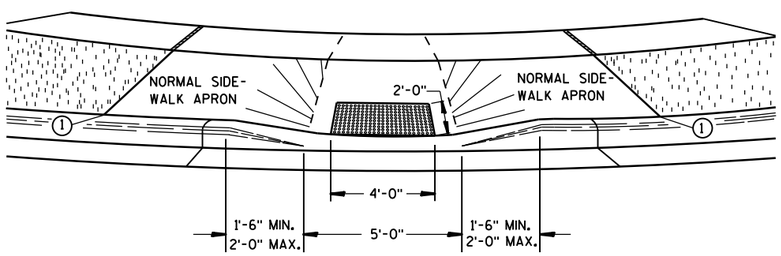
① THIS POINT IS AN EXTENSION OF OUTSIDE EDGE OF APPROACHING SIDEWALK WHERE IT MEETS THE BACK OF CONCRETE CURB.

② GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. PROVIDE DRAINAGE AWAY FROM CURB RAMP AT GUTTER FLAG INTERFACE.

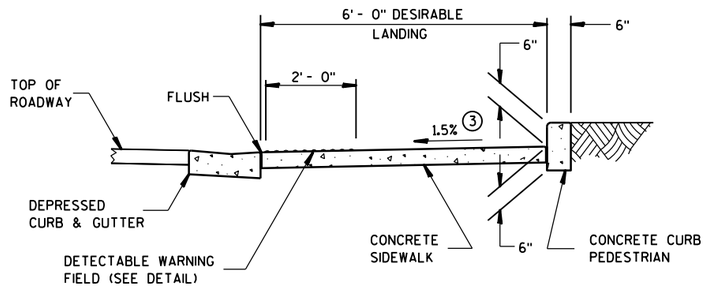
③ ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

LEGEND

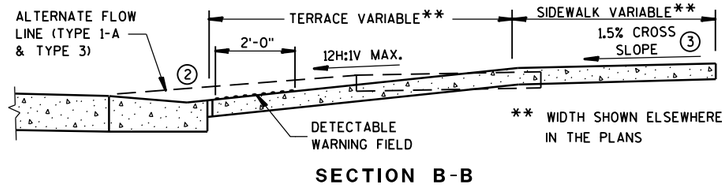
- ½" EXPANSION JOINT-SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)
- ALTERNATIVE LAYOUT



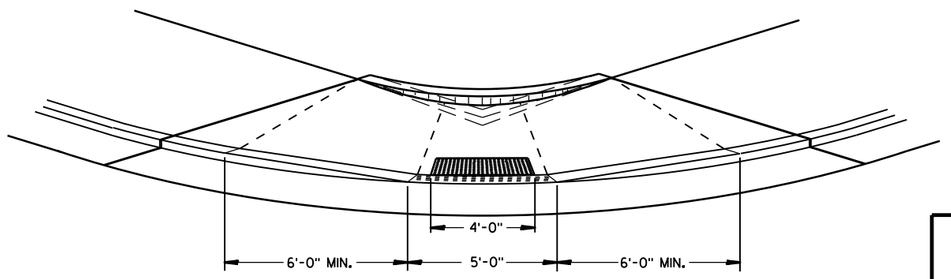
VIEW A-A



SECTION C-C



SECTION B-B



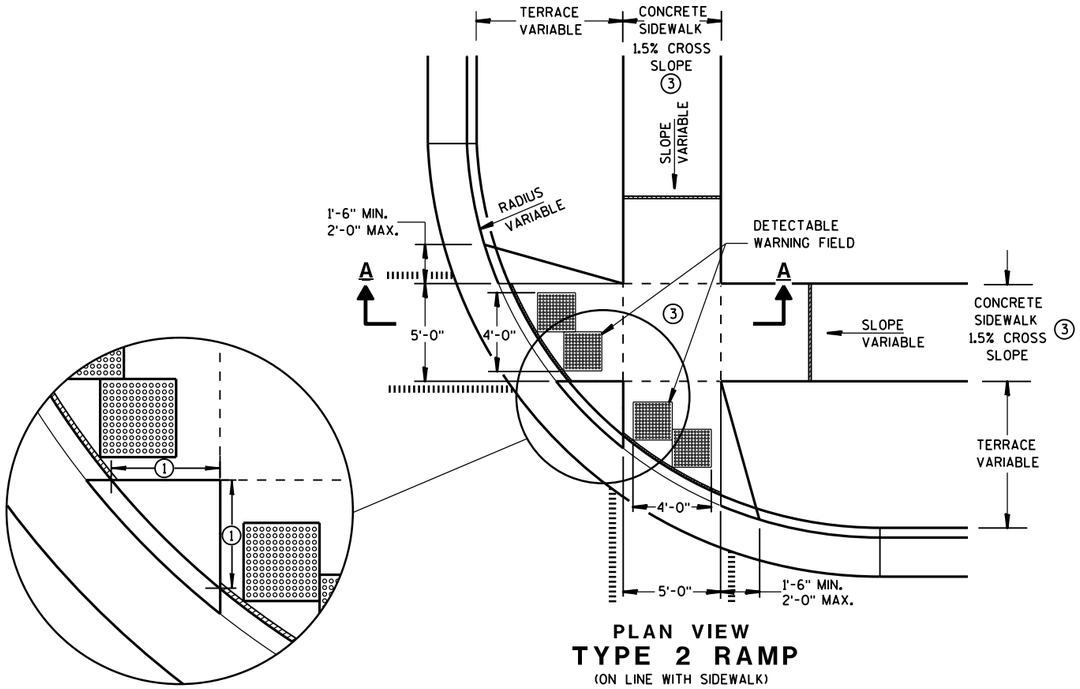
VIEW D-D

CURB RAMPS TYPES 1 AND 1-A

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

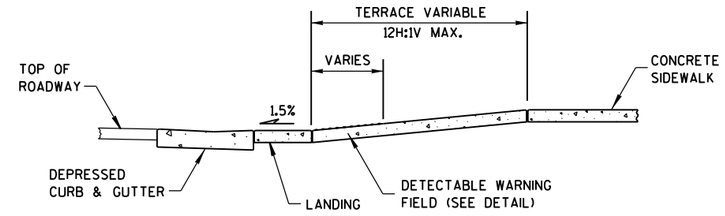
S.D.D. 8 D 5-15a



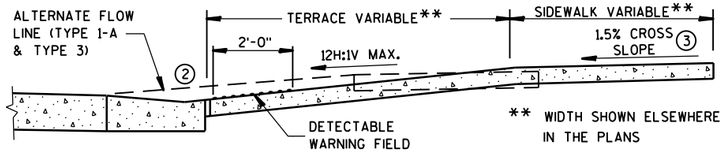
PLAN VIEW

TYPE 2 RAMP

(ON LINE WITH SIDEWALK)



SECTION A-A



SECTION B-B

GENERAL NOTES

USE THE TYPE 3 RAMP ONLY WHEN A TYPE 1 OR TYPE 2 CANNOT BE ACHIEVED BECAUSE OF FIELD CONDITIONS.

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

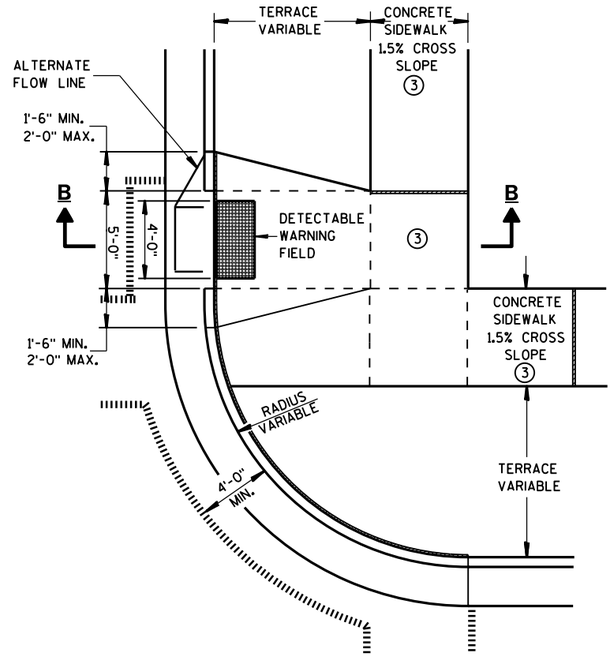
① WHEN THIS DISTANCE IS LESS THAN 6'-0" IT MAY BE DIFFICULT TO ACHIEVE A 12H:1V SLOPE, OR FLATTER, ON THE RAMP. REDUCE CURB HEIGHT IN TRIANGLE AREA TO ACHIEVE 12H:1V SLOPE, OR FLATTER, ON RAMP. 2" MINIMUM CURB HEIGHT.

② GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. PROVIDE DRAINAGE AWAY FROM CURB RAMP AT GUTTER FLAG INTERFACE.

③ ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

LEGEND

- ½" EXPANSION JOINT-SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)
- ALTERNATIVE LAYOUT



PLAN VIEW

TYPE 3 RAMP

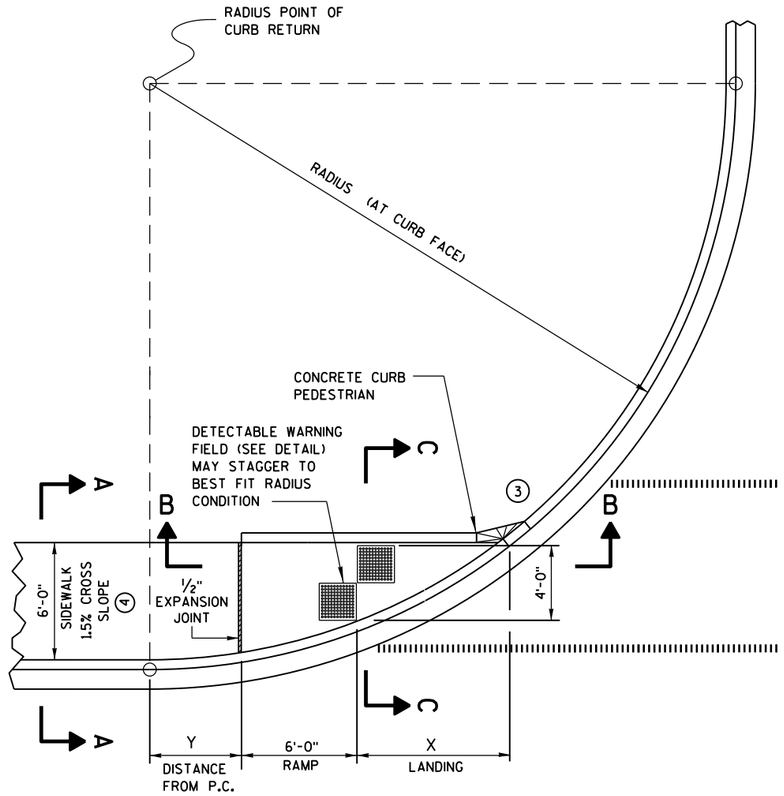
(OUTSIDE OF CROSSWALK AREA)

CURB RAMPS TYPES 2 AND 3

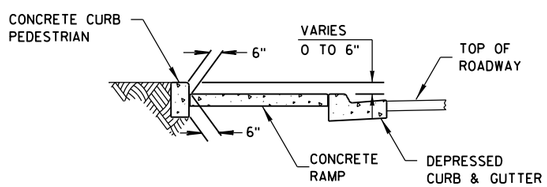
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

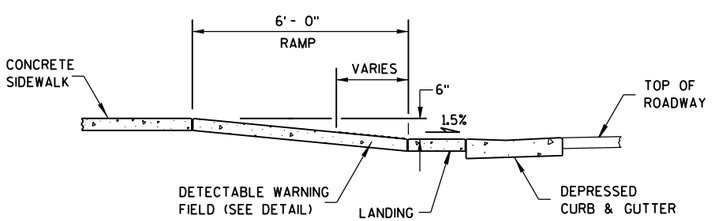
S.D.D. 8 D 5-15b



CURB RAMP TYPE 4A
PLAN VIEW



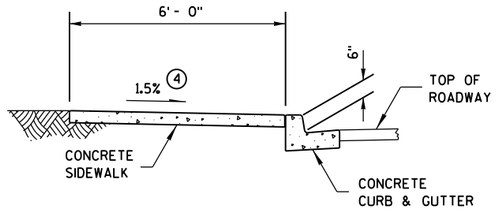
SECTION C-C FOR TYPE 4A



SECTION B-B FOR TYPE 4A

RADIUS (AT CURB FACE)	X	Y
20 FEET	6'-1¾"	2'-7¼"
30 FEET	7'-11¾"	4'-8¼"
40 FEET	9'-5¼"	6'-5"
50 FEET	10'-8¾"	7'-11¼"
60 FEET	11'-10¼"	9'-3½"

INTERMEDIATE RADII CAN BE INTERPOLATED



SECTION A-A FOR TYPE 4A

GENERAL NOTES

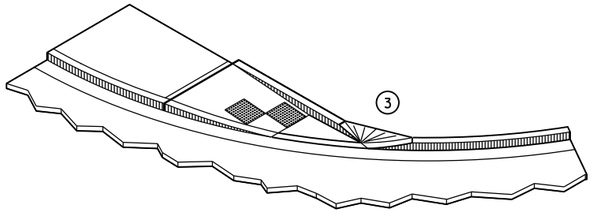
AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

RAMP SLOPES SHALL NOT BE STEEPER THAN 12:1.

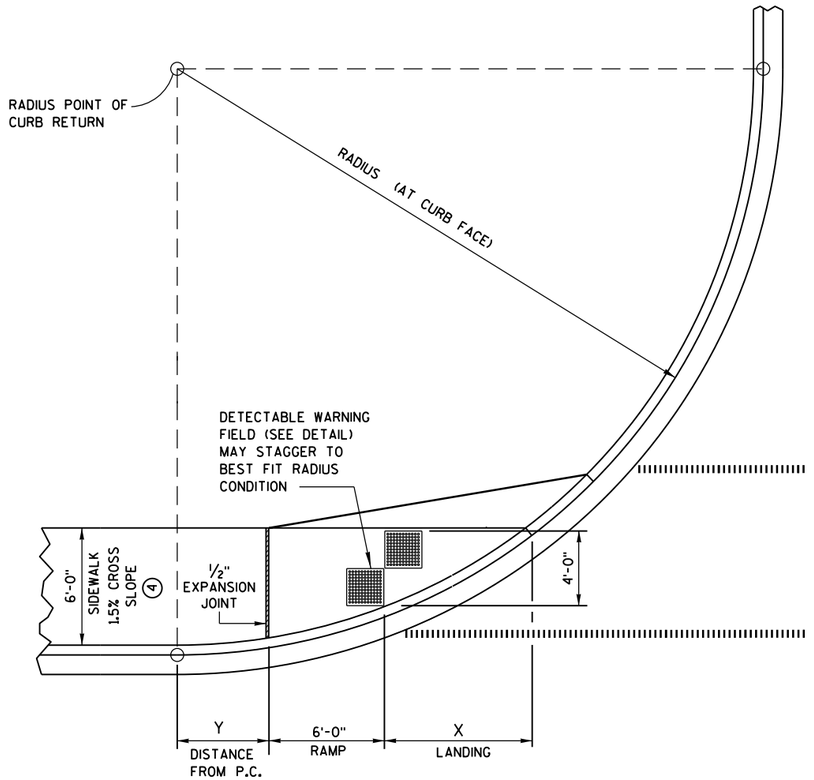
DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

(3) INSTALL TRANSITION NOSE. (INCIDENTAL TO OTHER PAY ITEMS.) DO NOT MARK TRANSITION NOSE.

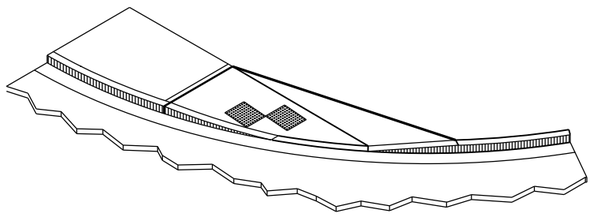
(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.



ISOMETRIC VIEW FOR TYPE 4A



CURB RAMP TYPE 4A1
PLAN VIEW



ISOMETRIC VIEW FOR TYPE 4A1

LEGEND

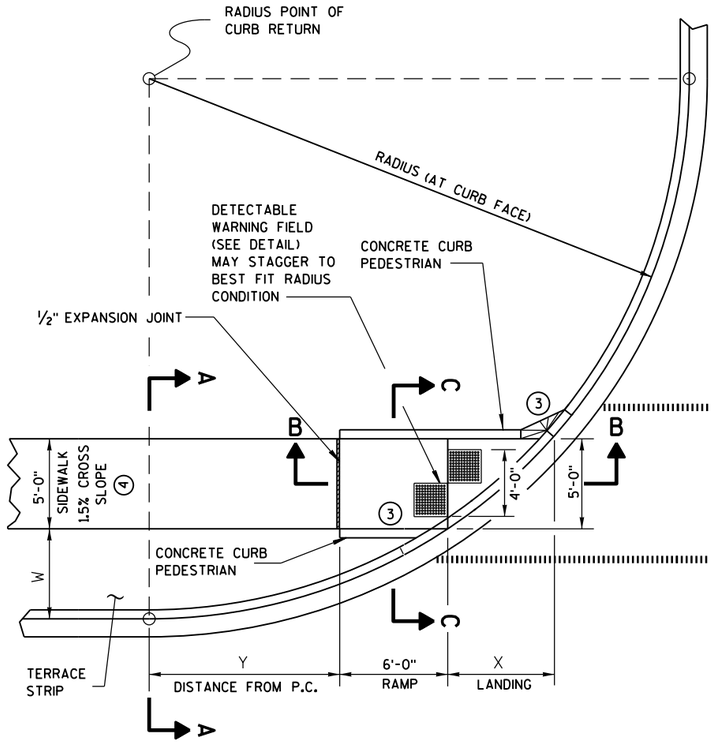
- ½" EXPANSION JOINT-SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)

CURB RAMPS TYPES 4A AND 4A1

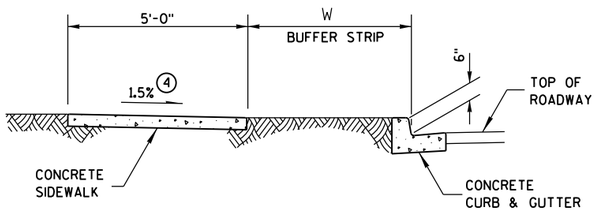
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

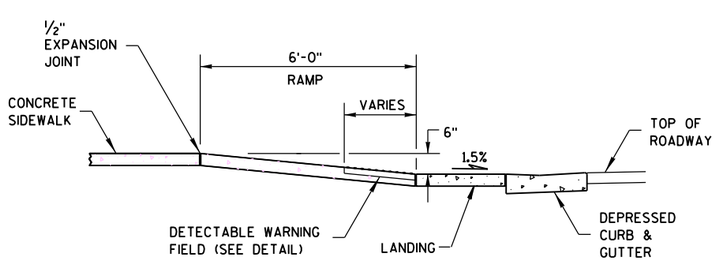
S.D.D. 8 D 5-15c



CURB RAMP TYPE 4B
PLAN VIEW



SECTION A-A FOR TYPE 4B



SECTION B-B FOR TYPE 4B

LEGEND

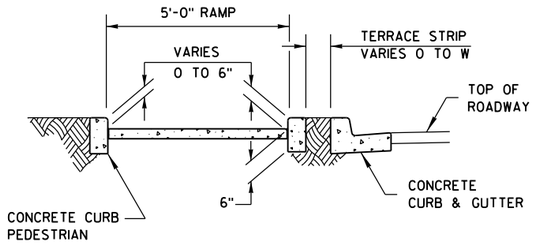
½" EXPANSION JOINT-SIDEWALK

CONTRACTION JOINT FIELD LOCATED

PAVEMENT MARKING CROSSWALK (WHITE)

RADIUS (AT CURB FACE)	W = 3'-0"		W = 4'-0"		W = 5'-0"		W = 6'-0"		W = 7'-0"	
	X	Y	X	Y	X	Y	X	Y	X	Y
20 FEET	5'-5½"	4'-6½"	4'-8½"	6'-0"	4'-1"	7'-2¾"	3'-7"	8'-3½"	3'-1½"	9'-2½"
30 FEET	7'-3¾"	7'-1"	6'-5½"	8'-11½"	5'-9¼"	10'-7"	5'-2½"	12'-0"	4'-8¾"	13'-3¼"
40 FEET	8'-9½"	9'-2½"	7'-10"	11'-5¼"	7'-1"	13'-4½"	6'-5¾"	15'-¾"	5'-11½"	16'-7¼"
50 FEET	10'-¾"	11'-¾"	9'-¼"	13'-7¼"	8'-2½"	15'-9½"	7'-6½"	17'-9"	6'-11¾"	19'-6¼"
60 FEET	11'-2½"	12'-8¾"	10'-¾"	15'-6½"	9'-2¼"	17'-11¾"	8'-5¾"	20'-1¾"	7'-10½"	22'-1½"

INTERMEDIATE RADII CAN BE INTERPOLATED



SECTION C-C FOR TYPE 4B

GENERAL NOTES

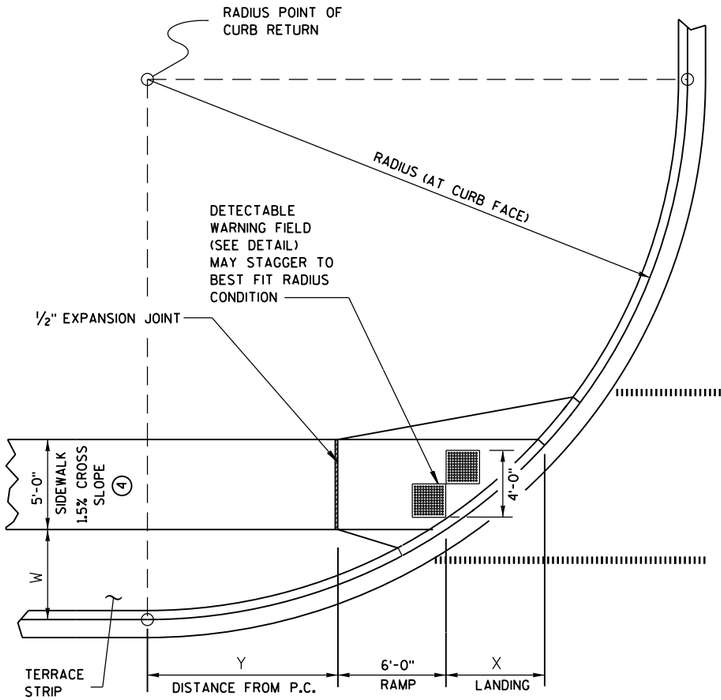
AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

RAMP SLOPES SHALL NOT BE STEEPER THAN 12:1.

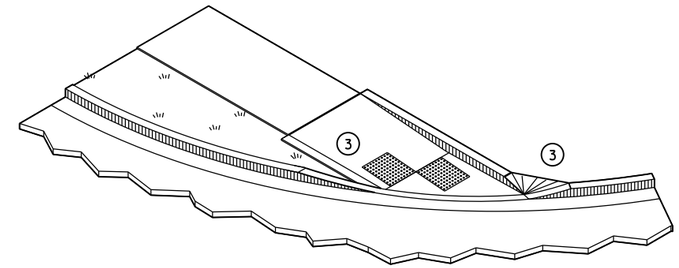
DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

(3) INSTALL TRANSITION NOSE. (INCIDENTAL TO OTHER PAY ITEMS.) DO NOT MARK TRANSITION NOSE.

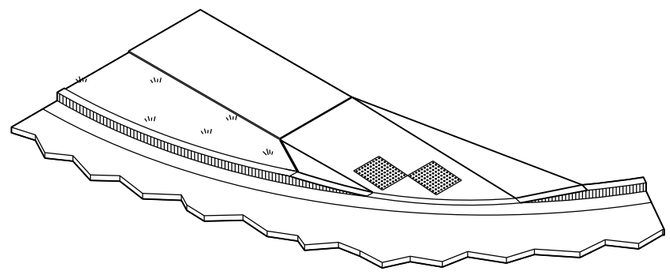
(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.



CURB RAMP TYPE 4B1
PLAN VIEW



ISOMETRIC VIEW FOR TYPE 4B



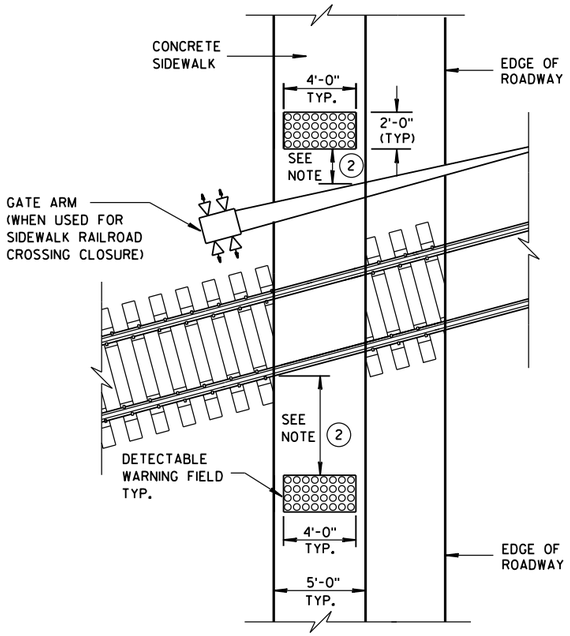
ISOMETRIC VIEW FOR TYPE 4B1

CURB RAMPS
TYPE 4B AND 4B1

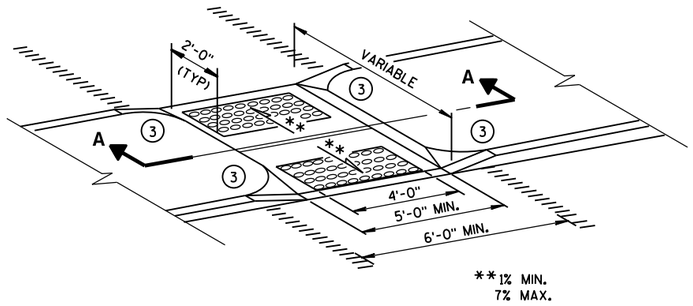
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

S.D.D. 8 D 5-15d



TYPE 8
DETECTABLE WARNINGS AT RAILROAD CROSSING



MEDIAN ISLAND
NON-ELEVATED CROSSING
TYPE 5

GENERAL NOTES

SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2%.

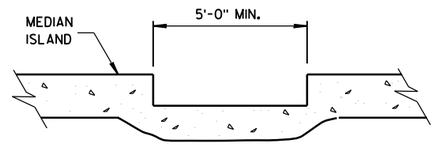
DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

(1) SLOPE SIDEWALK TOWARD LANDING AS SHOWN WHERE THERE IS NO TERRACE OR WHERE THE TERRACE WIDTH IS LESS THAN 6 FEET WIDE.

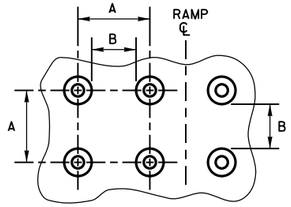
(2) THE EDGE OF THE DETECTABLE WARNING FIELD NEAREST TO A RAILROAD CROSSING SHALL BE 1.5 FEET ± 0.1' FROM THE FACE OF THE GATE ARM IF THE GATE ARM EXTENDS ACROSS THE SIDEWALK. WHERE THERE IS NO PEDESTRIAN GATE, THE EDGE OF THE DETECTABLE WARNING FIELD NEAREST TO THE RAILROAD CROSSING SHALL BE 15 FEET FROM THE NEAREST RAIL.

(3) INSTALL TRANSITION NOSE. (INCIDENTAL TO OTHER PAY ITEMS.) DO NOT MARK TRANSITION NOSE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.



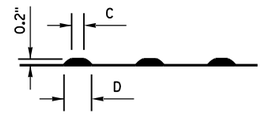
SECTION A-A



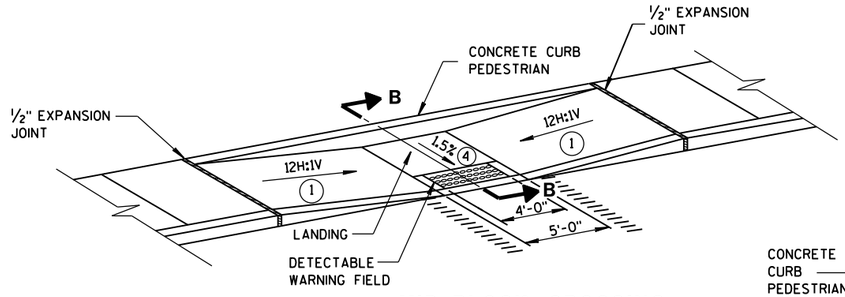
PLAN VIEW

	MIN.	MAX.
A	1.6"	2.4"
B	0.65"	1.5"
C	*	*
D	0.9"	1.4"

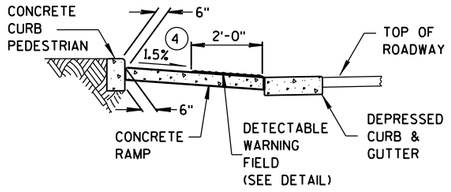
* THE C DIMENSION IS 50% TO 65% OF THE D DIMENSION.



ELEVATION VIEW

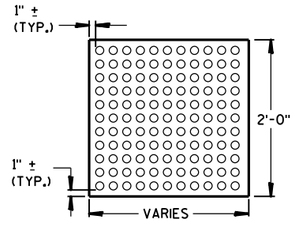


MID-BLOCK CROSSING
TYPE 7A



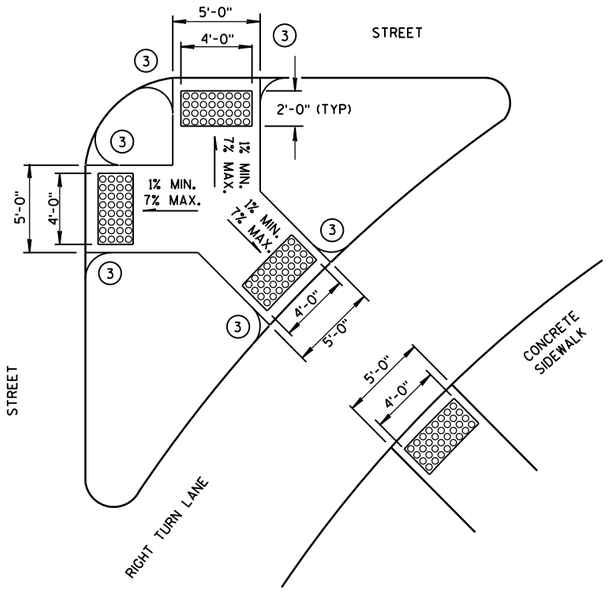
SECTION B-B

TRUNCATED DOMES
DETECTABLE WARNING PATTERN DETAIL

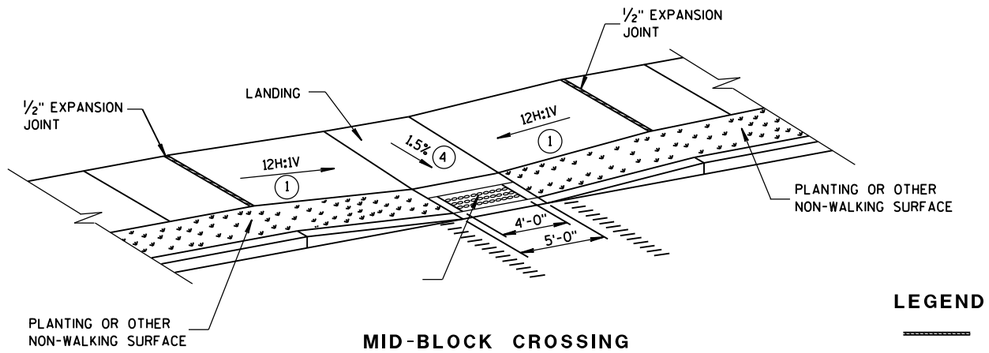


PLAN VIEW

DETECTABLE WARNING FIELD (TYPICAL)



TYPE 6
DETECTABLE WARNING AT ISLANDS



MID-BLOCK CROSSING
TYPE 7B

NOTE: THESE PARALLEL AND PARALLEL/PERPENDICULAR CURB RAMPS MAY BE USED AT INTERSECTIONS AND MID BLOCK LOCATIONS.

LEGEND

- ½" EXPANSION JOINT-SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)

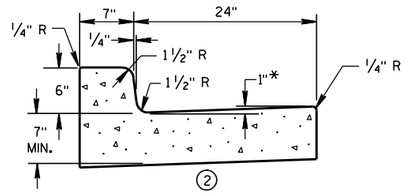
CURB RAMPS
TYPES 5, 6, 7A, 7B & 8

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

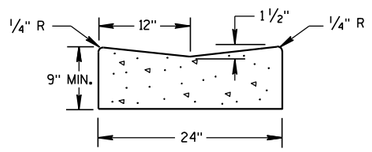
APPROVED
2-6-2013 DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS [illegible] ENGINEER
FHWA

6

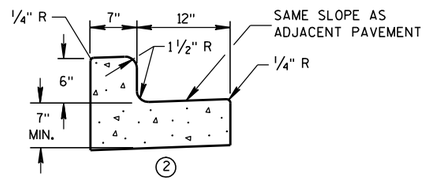
S.D.D. 8 D 5-15e



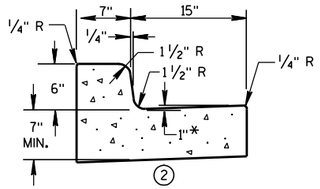
① CONCRETE CURB & GUTTER 31"



① CONCRETE GUTTER 24"

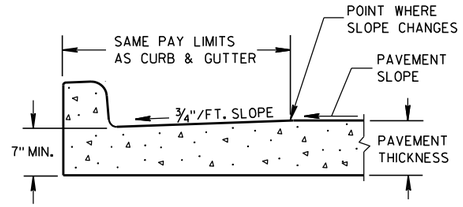


① CONCRETE CURB & GUTTER 19"



① CONCRETE CURB & GUTTER 22"

* TO BE MEASURED TO A MAXIMUM OF 3" WHERE DRAINAGE PROBLEMS EXIST.



PARTIAL SECTION OF PAVEMENT WITH INTEGRAL CURB & GUTTER

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

INTEGRAL CURB & GUTTER SHALL CONFORM TO THE DETAILS SHOWN FOR CONCRETE CURB & GUTTER INCLUDING THE TRANSVERSE GUTTER SLOPE. A LONGITUDINAL CONSTRUCTION JOINT IS NOT REQUIRED WITH INTEGRAL CURB AND GUTTER.

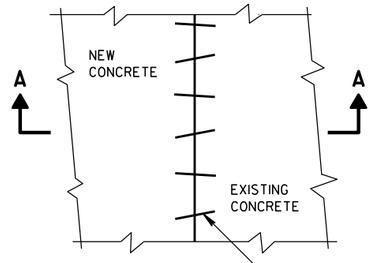
WHERE THE TRANSVERSE JOINTS IN THE PAVEMENT ARE REQUIRED TO BE SEALED, THE JOINTS IN THE INTEGRAL CURB AND GUTTER SHALL BE SEALED TO THE FACE OF CURB WITH THE SAME TYPE OF SEALANT. THE COST OF FURNISHING AND INSTALLING THIS SEALANT SHALL BE INCIDENTAL TO THE ITEM CONCRETE CURB AND GUTTER.

UNLESS OTHERWISE SHOWN ON THE TYPICAL CROSS SECTIONS, THE BASE COURSE AND UNCLASSIFIED EXCAVATION LIMITS ARE 2'-0" BEHIND THE BACK OF CURB.

① WHEN PLACED ADJACENT TO NEW CONCRETE, TIE BARS ARE REQUIRED FOR CURB AND GUTTER 31", 22", 19" AND CONCRETE GUTTER 24".

② THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE COURSE PROVIDED A 7" MIMIMUM GUTTER THICKNESS IS MAINTAINED.

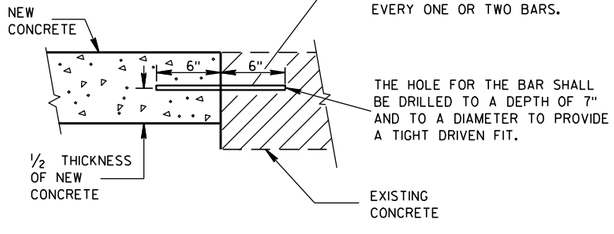
③ WHEN HIGH SIDE CURB SECTION IS REQUIRED, THE LOCATION(S) WILL BE NOTED ON THE PLAN.



PLAN VIEW

EXISTING AND NEW CONCRETE MAY BE CURB & GUTTER, SURFACE DRAIN, PAVEMENT OR OTHER CONCRETE STRUCTURE.

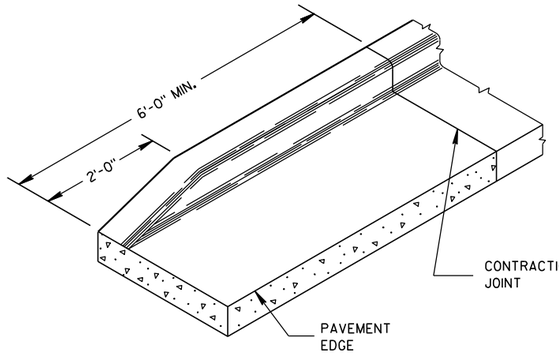
NO. 6 X 12" DEF. BARS SPACED 3'-0" C-C, INSTALLED ON 6:1 SKEW HORIZONTALLY. DIRECTION OF SKEW ALTERNATING AFTER EVERY ONE OR TWO BARS.



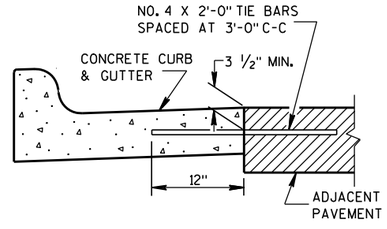
THE HOLE FOR THE BAR SHALL BE DRILLED TO A DEPTH OF 7" AND TO A DIAMETER TO PROVIDE A TIGHT DRIVEN FIT.

SECTION A-A

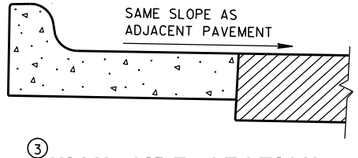
PAVEMENT TIES



END SECTION CURB & GUTTER



① TYPICAL TIE BAR LOCATION



③ HIGH SIDE SECTION

(TYPICAL FOR ALL CURB & GUTTER)

CONCRETE GUTTER, CURB AND GUTTER AND PAVEMENT TIES

(For Optional Use in Milwaukee Co. Only)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

11/2/2010 — DATE

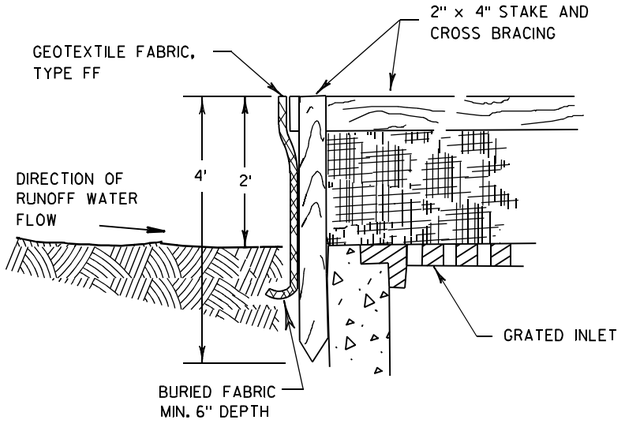
/S/ Jerry Zogg — ROADWAY STANDARDS ENGINEER

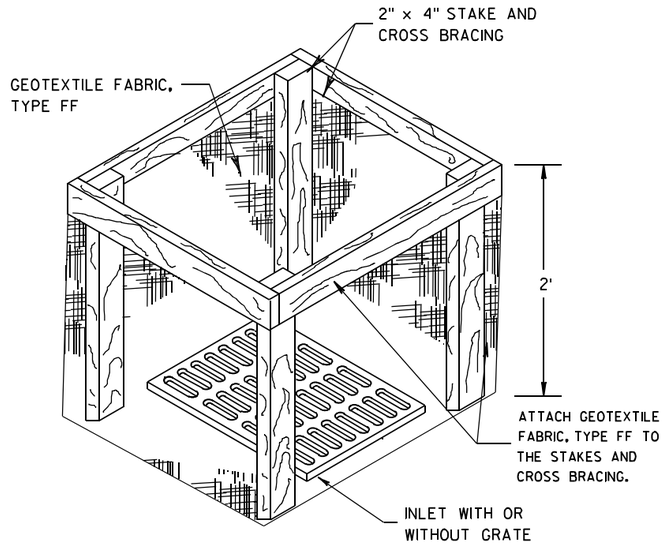
ENT

FHWA

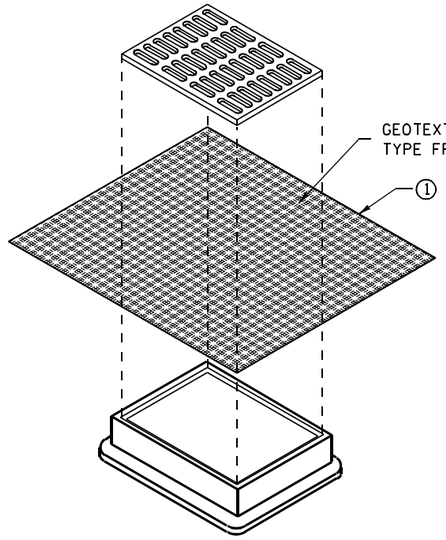
6

S.D.D.® 8 D 16-10



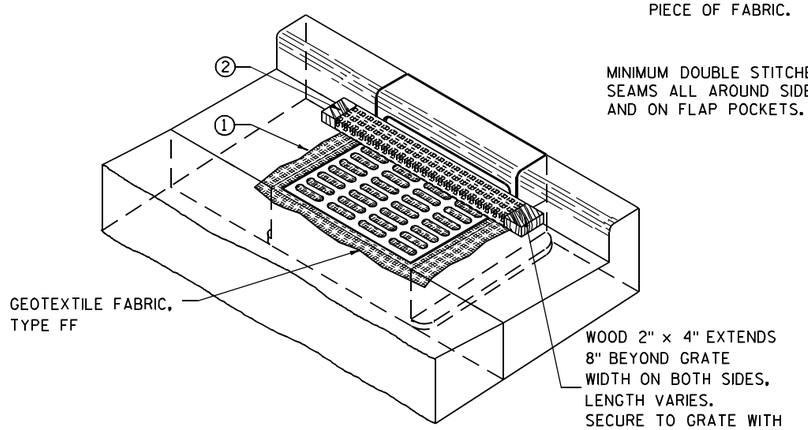


INLET PROTECTION, TYPE A

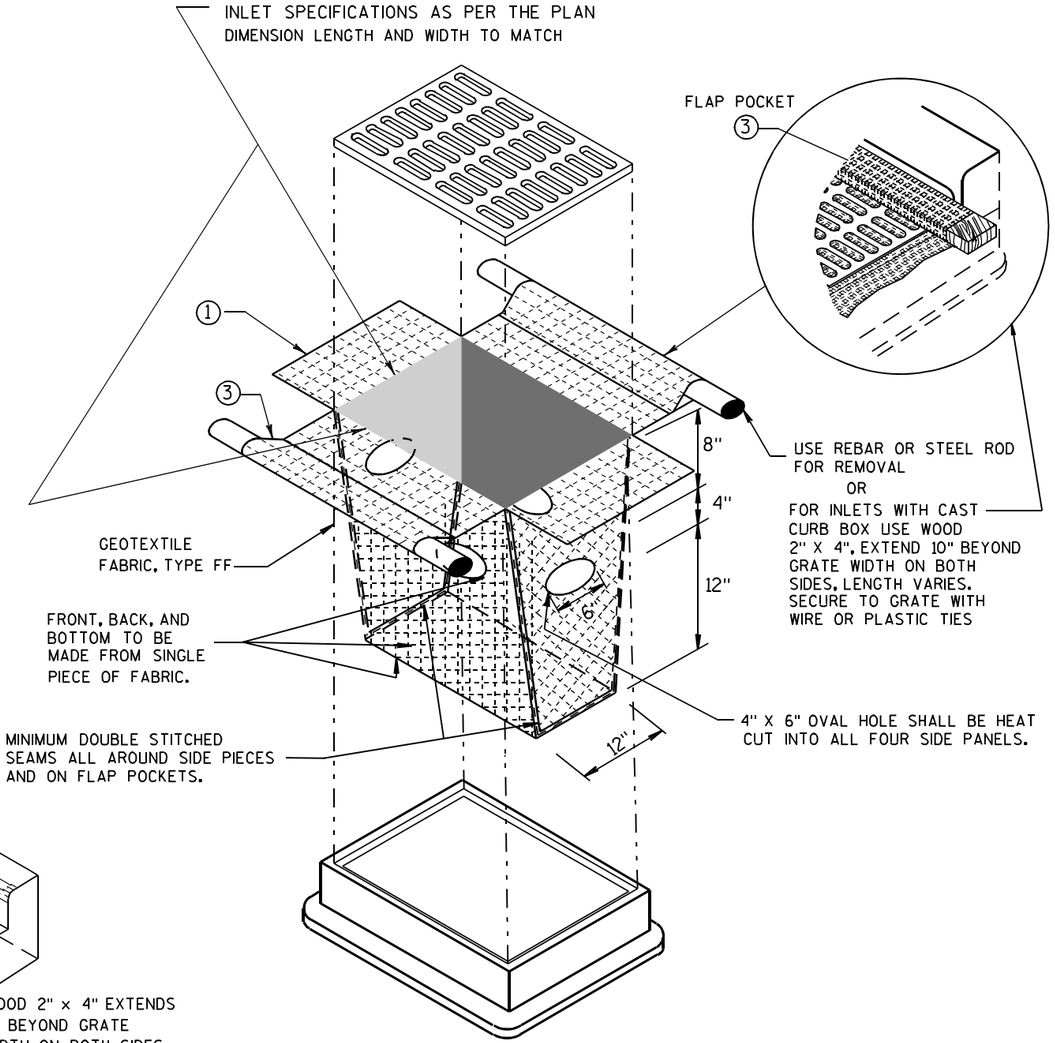


INLET PROTECTION, TYPE B
(WITHOUT CURB BOX)

(CAN BE INSTALLED IN ANY INLET WITHOUT A CURB BOX)



INLET PROTECTION, TYPE C (WITH CURB BOX)



INLET PROTECTION, TYPE D

(CAN BE INSTALLED IN ANY INLET TYPE WITH
OR WITHOUT A CURB BOX AS PER NOTE ②)

GENERAL NOTES

INLET PROTECTION DEVICES SHALL BE MAINTAINED OR REPLACED AT THE DIRECTION OF THE ENGINEER.

MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON THE DEPARTMENT'S EROSION CONTROL PRODUCT ACCEPTABILITY LIST MAY BE SUBSTITUTED.

WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.

① FINISHED SIZE, INCLUDING FLAP POCKETS WHERE REQUIRED, SHALL EXTEND A MINIMUM OF 10" AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.

② FOR INLET PROTECTION, TYPE C (WITH CURB BOX), AN ADDITIONAL 18" OF FABRIC IS WRAPPED AROUND THE WOOD AND SECURED WITH STAPLES. THE WOOD SHALL NOT BLOCK THE ENTIRE HEIGHT OF THE CURB BOX OPENING.

③ FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2X4.

INSTALLATION NOTES

TYPE B & C

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE CONTRACTOR SHALL DEMONSTRATE A METHOD OF MAINTENANCE, USING A SEWN FLAP, HAND HOLDS OR OTHER METHOD TO PREVENT ACCUMULATED SEDIMENT FROM ENTERING THE INLET.

TYPE D

DO NOT INSTALL INLET PROTECTION TYPE D IN INLETS SHALLOWER THAN 30", MEASURED FROM THE BOTTOM OF THE INLET TO THE TOP OF THE GRATE.

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3". WHERE NECESSARY THE CONTRACTOR SHALL CINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3" CLEARANCE. THE TIES SHALL BE PLACED AT A MAXIMUM OF 4" FROM THE BOTTOM OF THE BAG.

INLET PROTECTION
TYPE A, B, C, AND D

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
10/16/02
DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

6
S.D.D. 8 E 10-2

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

TRACKING PAD SHALL BE INSPECTED DAILY. DEFICIENT AREAS SHALL BE REPAIRED OR REPLACED IMMEDIATELY.

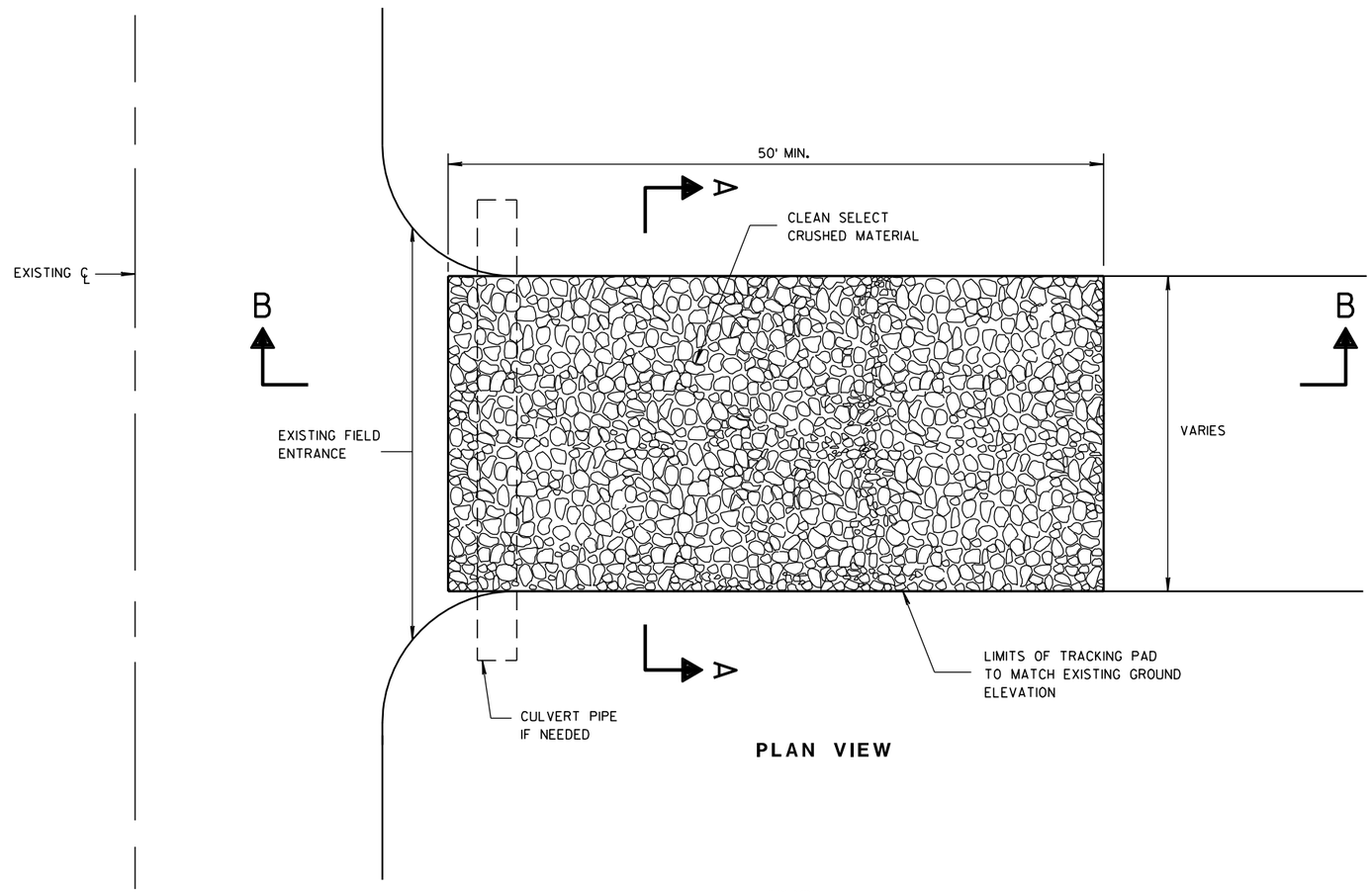
TRACKING PAD TO BE REMOVED AFTER CONSTRUCTION IS COMPLETED.

TRACKING PAD SHALL BE THE FULL WIDTH OF THE EGRESS POINT.

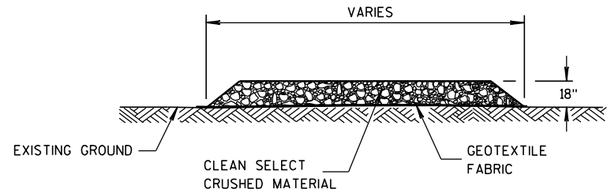
SURFACE WATER MUST BE PREVENTED FROM PASSING THROUGH THE TRACKING PAD. FLOWS SHALL BE DIVERTED AWAY, AROUND OR CONVEYED UNDER THE TRACKING PAD.

CULVERT PIPE OR OTHER BMP USED TO DIVERT WATER AWAY, AROUND OR UNDER THE TRACKING PAD SHALL BE DESIGNED TO CONVEY THE 2 YEAR - 24 HOUR EVENT.

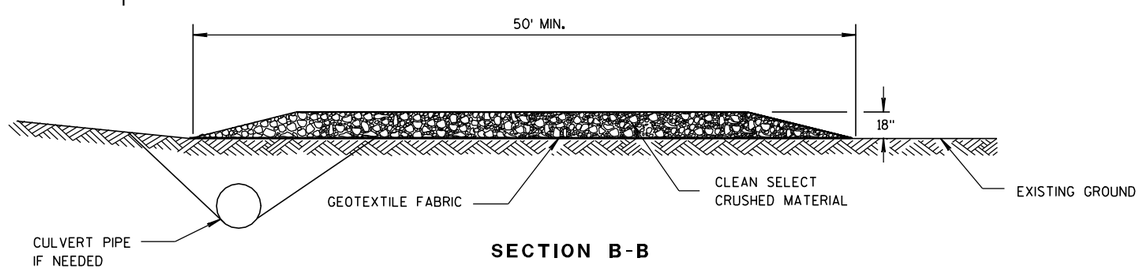
THE COST OF ADDITIONAL BMP TO DIVERT WATER ARE INCIDENTAL TO THE TRACKING PAD BID ITEM.



PLAN VIEW



SECTION A-A



SECTION B-B

TRACKING PAD

TRACKING PAD

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

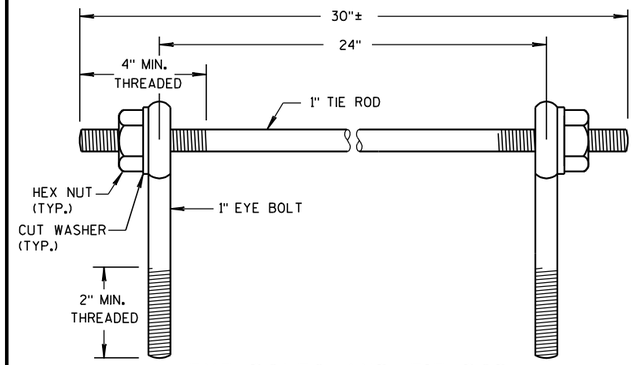
APPROVED
3/24/2011 /S/ Jerry H. Zogg
DATE ROADWAY STANDARDS ENGINEER ENT
FHWA

6

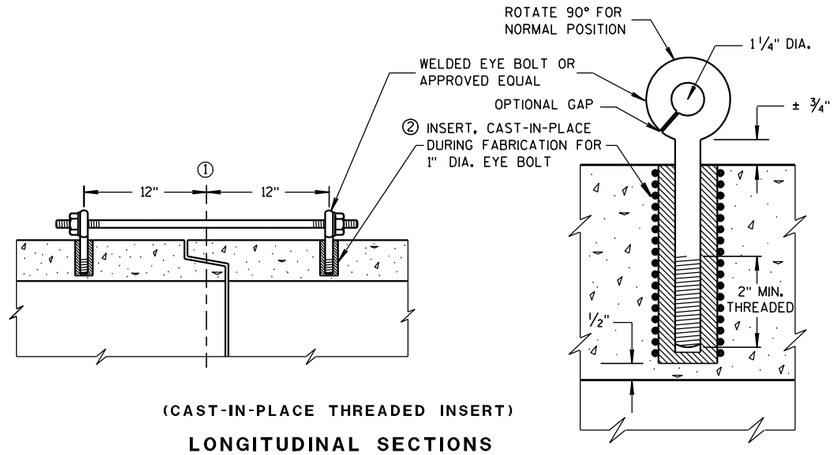
6

S.D.D. 8 E 14-1

S.D.D. 8 E 14-1



EYE BOLTS AND TIE ROD



(CAST-IN-PLACE THREADED INSERT)

LONGITUDINAL SECTIONS

EYE BOLT AND TIE ROD ASSEMBLY (ALTERNATE NO. 1)

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS, AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

CONCRETE CULVERT AND STORM SEWER PIPE SHALL BE TIED TOGETHER IN THE MANNER ILLUSTRATED BY THIS DETAIL AT LOCATIONS DESIGNATED IN THE STANDARD SPECIFICATIONS AND THE PLAN. THE CONTRACTOR MAY USE EITHER ALTERNATE 1, 2 OR 3 FOR DRAINAGE STRUCTURES. ONLY ALTERNATE 1 AND 3 MAY BE USED FOR CATTLE PASSES, UNLESS OTHERWISE STATED IN THE CONTRACT. THE MATERIALS, FABRICATION AND WORK NECESSARY TO TIE THE PIPE BY THIS DETAIL WILL BE CONSIDERED INCIDENTAL TO THE PIPE AND APRON ENDWALLS IF REQUIRED.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR JOINT TIES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

JOINT TIES TO BE HOT-DIP GALVANIZED PER ASTM A 153.

① ℄ OF TONGUE AND GROOVE OR BELL AND SPIGOT JOINTS.

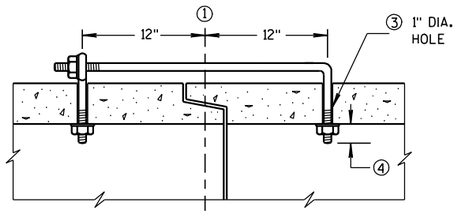
② THE INSIDE OF THE THREADED INSERTS SHALL BE CLEAN TO ALLOW THE INSERTION OF THREADED EYE BOLTS.

③ HOLES SHALL BE CAST-IN-PLACE OR DRILLED 12 INCHES FROM ℄ OF TONGUE AND GROOVE.

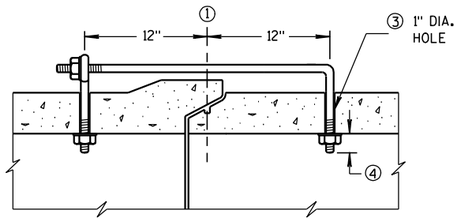
④ BOLT PROJECTION INSIDE OF PIPE SHALL NOT EXCEED 2 INCHES.

⑤ OPENING TO BE ROD DIAMETER PLUS 1 INCH.

⑥ LENGTH ADEQUATE TO EXTEND TO WITHIN 1/2 INCH OF THE INNER SURFACE OF THE PIPE.



(TONGUE & GROOVE PIPE)

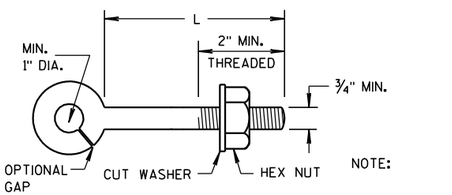


(MODIFIED BELL PIPE)

LONGITUDINAL SECTION

EYE BOLT DIMENSION TABLE

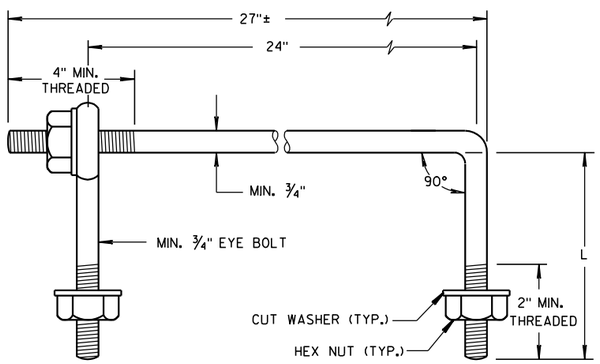
PIPE SIZE	L = LENGTH	
	TONGUE & GROOVE PIPE	MODIFIED BELL PIPE
18" TO 24"	4 1/2"	6 1/4"
30"	5"	7"
36"	5 1/2"	7"
42"	6"	
48"	6 1/2"	
60"	7 1/2"	
66"	8"	



NOTE:

EYE BOLT

NOTE: TWO EYE BOLTS MAY BE USED WITH A 30" LONG THREADED ROD IN LIEU OF THE 90° BENT TIE ROD.



EYE BOLT AND TIE ROD

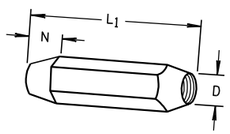
(JOINT TIES FOR 18" TO 66" DIA. CONCRETE PIPE)

EYE BOLT AND TIE ROD ASSEMBLY (ALTERNATE NO. 2)

ADJUSTABLE TIE ROD TABLE

PIPE DIAMETER	TIE ROD DIAMETER	D	L_1	N
12-60	5/8	5/8	5	1/2
66-84	3/4	3/4	5	1/2
90-108	1	1	7	1 1/16

DIMENSIONS SHOWN ARE IN INCHES



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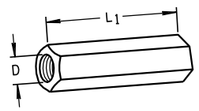
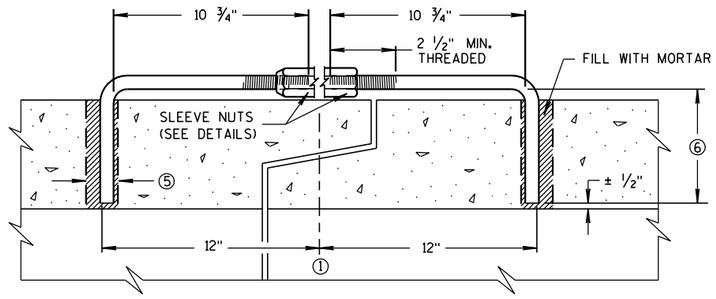


PLAIN

RIGHT AND LEFT THREADS

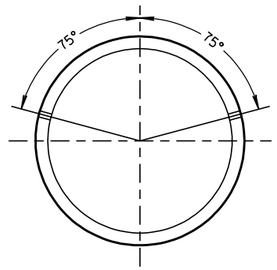
SLEEVE NUTS



LONGITUDINAL SECTION

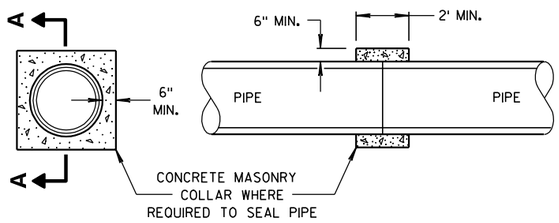
(JOINT TIES FOR 12" TO 108" DIA. CONCRETE PIPE)

ADJUSTABLE TIE ROD (ALTERNATE NO. 3)



PLACEMENT OF (2) CAST-IN-PLACE INSERTS OR HOLES DURING FABRICATION FOR PIPE SECTIONS REQUIRING TIE RODS

TRANSVERSE SECTION



SECTION A-A

CONCRETE COLLAR DETAIL

JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
6/5/2012 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER
FHWA

6

S.D.D. 8 F 4-7

6

S.D.D. 8 F 4-7

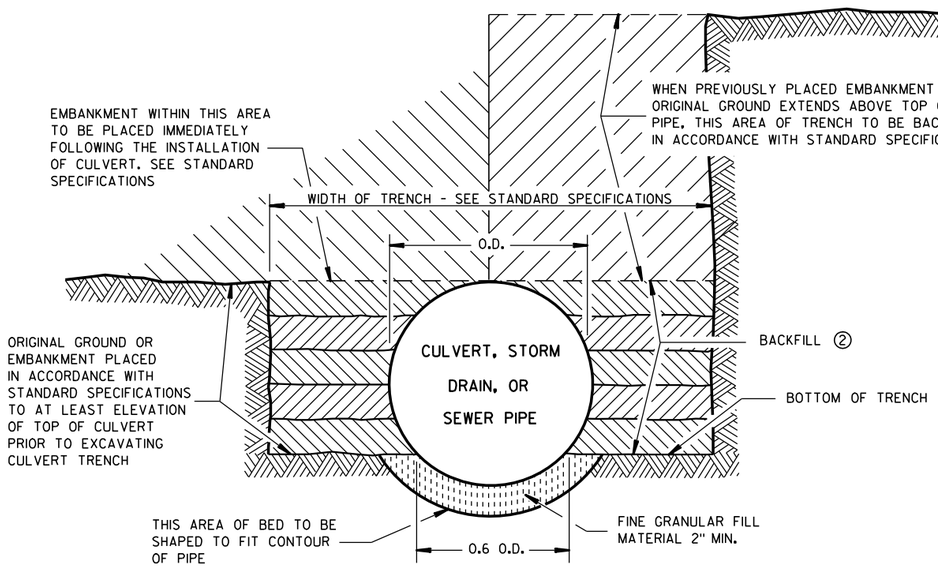
GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

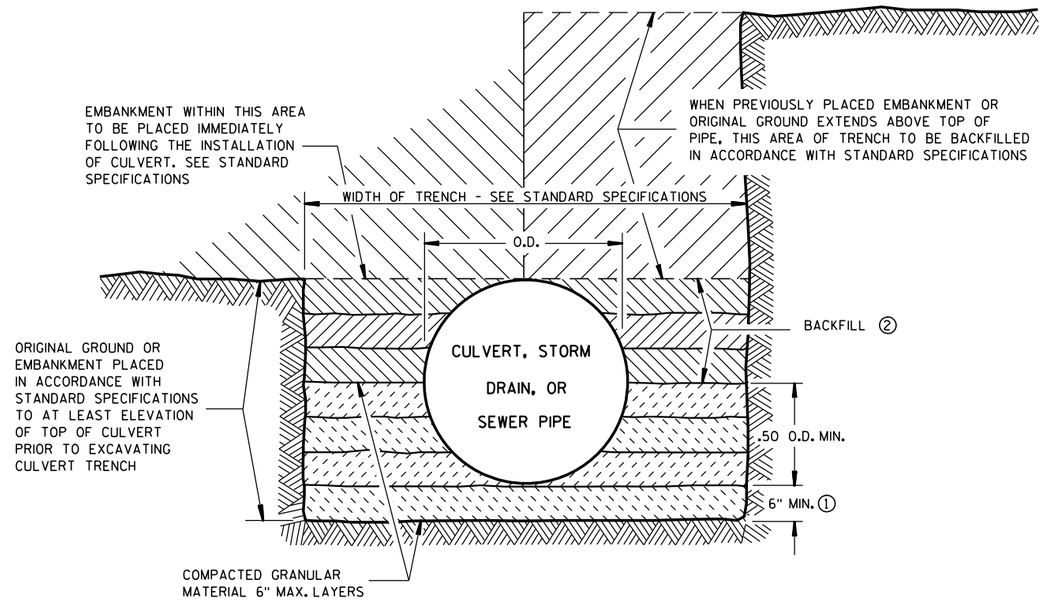
THE SHAPED SUBGRADE WITH GRANULAR FOUNDATION IS AN EQUAL ALTERNATE TO THE GRANULAR FOUNDATION EXCEPT WHERE ROCK IS ENCOUNTERED.

① WHERE ROCK, HARD PAN OR FRAGMENTED MATERIAL IS ENCOUNTERED, THE TRENCH SHALL BE EXCAVATED BELOW THE BOTTOM OF THE PIPE AN AMOUNT EQUAL TO ½ INCH PER FOOT OF PROPOSED EMBANKMENT ABOVE THE TOP OF THE PIPE, BUT NOT LESS THAN 6 INCHES.

② TRENCH SHALL BE BACKFILLED AS REQUIRED BY STANDARD SPECIFICATIONS; SECTION 520 FOR PIPE CULVERTS AND SECTION 607 FOR STORM SEWERS.



SHAPED SUBGRADE WITH GRANULAR FOUNDATION



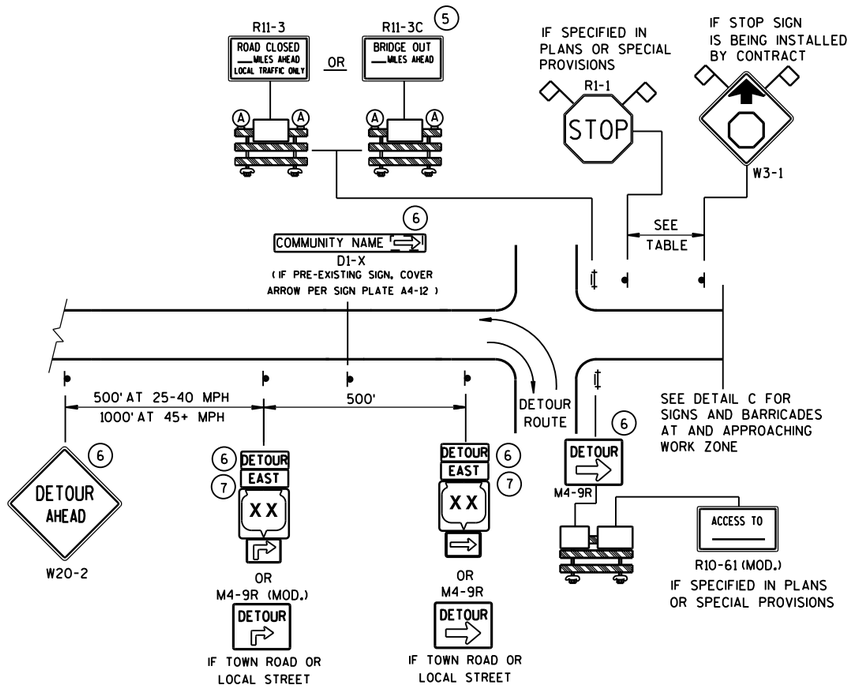
GRANULAR FOUNDATION

CLASS "B" BEDDING

CLASS "B" BEDDING FOR CULVERT PIPE OR STORM SEWER	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED	
4/7/83 DATE	/S/ D. L. Strand STATE DESIGN ENGINEER
FHWA	HWYS

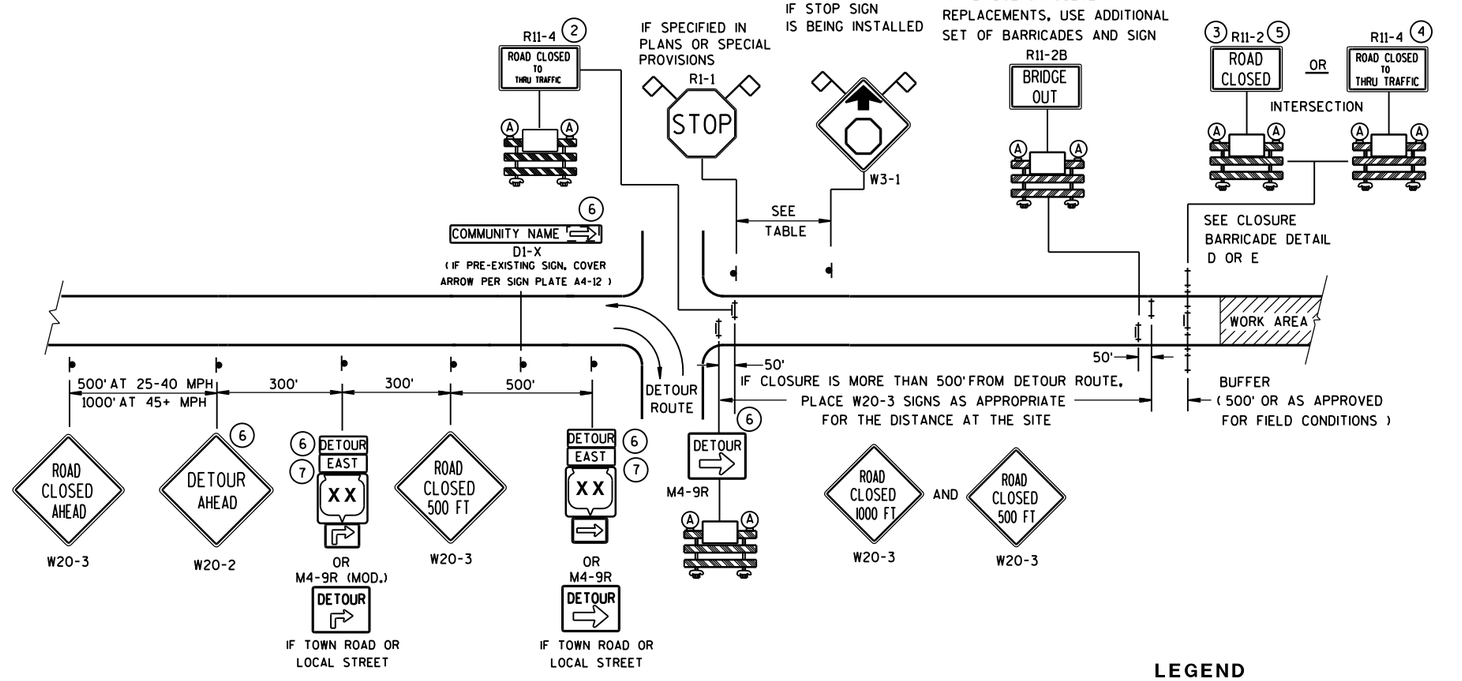
6

S.D.D. 8 F 5-1



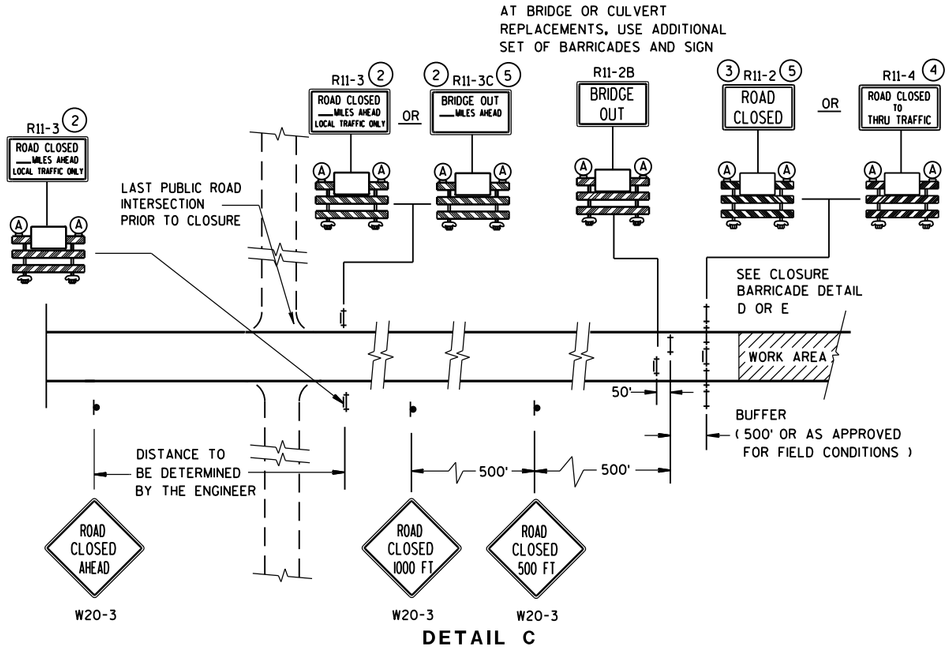
DETAIL A
MAINLINE CLOSURE WITH POSTED DETOUR

WORK ZONE GREATER THAN ½ MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)



DETAIL B
MAINLINE CLOSURE WITH POSTED DETOUR

WORK ZONE LESS THAN ½ MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)



DETAIL C
MAINLINE CLOSURE, NO POSTED DETOUR

SPEED LIMIT (MPH)	"STOP AHEAD" ADVANCE WARNING DISTANCE (FT)
25	200
30	200
35	350
40	350
45	500
50	550
55	750

SEE SDD 15C2-SHEET "**b**" FOR GENERAL NOTES AND FOOTNOTES ① THROUGH ⑦

LEGEND

- SIGN ON PERMANENT SUPPORT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- (A) TYPE "A" WARNING LIGHT (FLASHING)
- WORK AREA
- DETOUR / EAST — M4-8 / M3-X
- XX — M1-4; COUNTY XX — M1-5A; XX — M1-6
- M05-1 OR M06-1
- FLAGS, 16" X 16" MIN., (ORANGE)

BARRICADES AND SIGNS FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

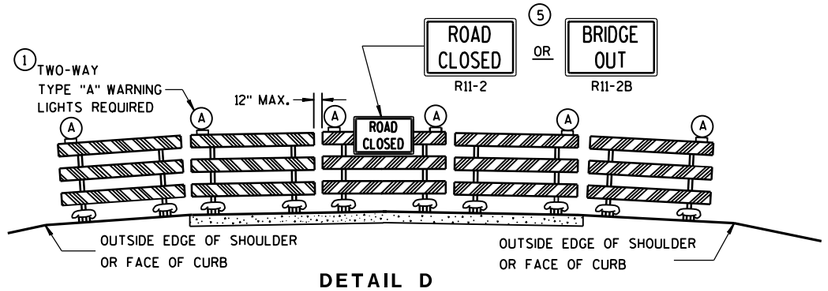
8/2013 DATE

/S/ Travis Feltes
STATE TRAFFIC ENGINEER

FHWA

6

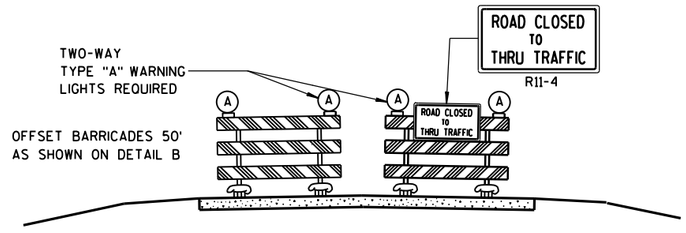
S.D.D. 15 C 2-5a



DETAIL D

ROAD CLOSURE BARRICADE DETAIL

APPROACH VIEW



DETAIL E

LANE CLOSURE BARRICADE DETAIL

APPROACH VIEW

SEE SDD 15C2-SHEET "**a**" FOR LEGEND

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND BARRICADES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

BARRICADES THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION OR, FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ALL TYPE III BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES. STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL D FOR FULL ROAD CLOSURES.

TYPE "A" LOW-INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

THE R11-2, R11-3, M4-9, R11-4 AND R10-61 SIGNS PLACED ON BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE OR BOTTOM RAILS.

"WO AND "MO" SIGNS ARE THE SAME AS "W" AND "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:
- R11-2 SHALL BE 48" X 30".
- R11-3, R11-4 AND R10-61 SHALL BE 60" X 30".
- M4-9 SHALL BE 30" X 24".
- M3-X SHALL BE 24" X 12". (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS.)
- M4-8 SHALL BE 24" X 12". (30" X 15" IF NEEDED TO MATCH EXISTING SIGNS.)
- M1-4, M1-5A, AND M1-6 SHALL BE 24" X 24". (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS.)
- M05-1 AND M06-1 SHALL BE 21" X 21". (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS.)
- D1-X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.
- R1-1 SHALL BE 36" X 36".

(1) TWO WARNING LIGHTS SHALL BE PROVIDED ON THE CENTER BARRICADE AND A MINIMUM OF ONE WARNING LIGHT SHALL BE PROVIDED ON EACH OF THE OTHER BARRICADES WITHIN THE ROADWAY LIMITS. SPACING OF THE WARNING LIGHTS SHALL BE UNIFORM TO THE EDGE OF ROADWAY AS SHOWN (APPROX. 8-FOOT LIGHT SPACING).

(2) THESE SIGNS AND BARRICADES ARE NOT REQUIRED IF ROAD CLOSURE BEGINS AT INTERSECTION.

(3) FOR ROAD CLOSURE WITHOUT LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL D.

(4) FOR ROAD CLOSURE WITH LOCAL ACCESS TO PROJECT, SEE LANE CLOSURE BARRICADE DETAIL E.

(5) FOR BRIDGE OR CULVERT REPLACEMENTS, SUBSTITUTE "BRIDGE OUT" INSTEAD OF "ROAD CLOSED" ON R11-2 AND R11-3 SIGNS.

(6) INSTALL DETOUR AND COMMUNITY GUIDE SIGNS AND ARROWS ONLY IF SPECIFIED IN THE CONTRACT. IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. MODIFY EXISTING SIGNS WHERE POSSIBLE. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. IF DETOUR SIGNS ARE BEING INSTALLED BY OTHERS, PLACE THE CONTRACTED TRAFFIC CONTROL SIGNS TO ALLOW FOR PLACEMENT OF ALL WARNING, DETOUR AND GUIDE SIGNS AS SHOWN.

(7) "EAST" CARDINAL DIRECTION MARKERS AND RIGHT TURN ARROWS ARE SHOWN. USE OTHER CARDINAL DIRECTIONS AND ARROWS AS APPROPRIATE.

BARRICADES AND SIGNS FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

8/2013 — DATE

/S/ Travis Feltes — STATE TRAFFIC ENGINEER

FHWA

6

S.D.D. 15 C 2-5b

THIS DRAWING PROVIDES GENERAL GUIDANCE ON TYPICAL DETOUR SIGN LAYOUT AND SPACING. SEE PROJECT DETOUR SIGNING SHEETS FOR SPECIFIC DETAILS FOR EACH PROJECT.

GENERAL NOTES

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. MODIFY EXISTING SIGNS WHERE POSSIBLE.

THE SPACING BETWEEN TRAFFIC CONTROL AND DETOUR SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE", SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

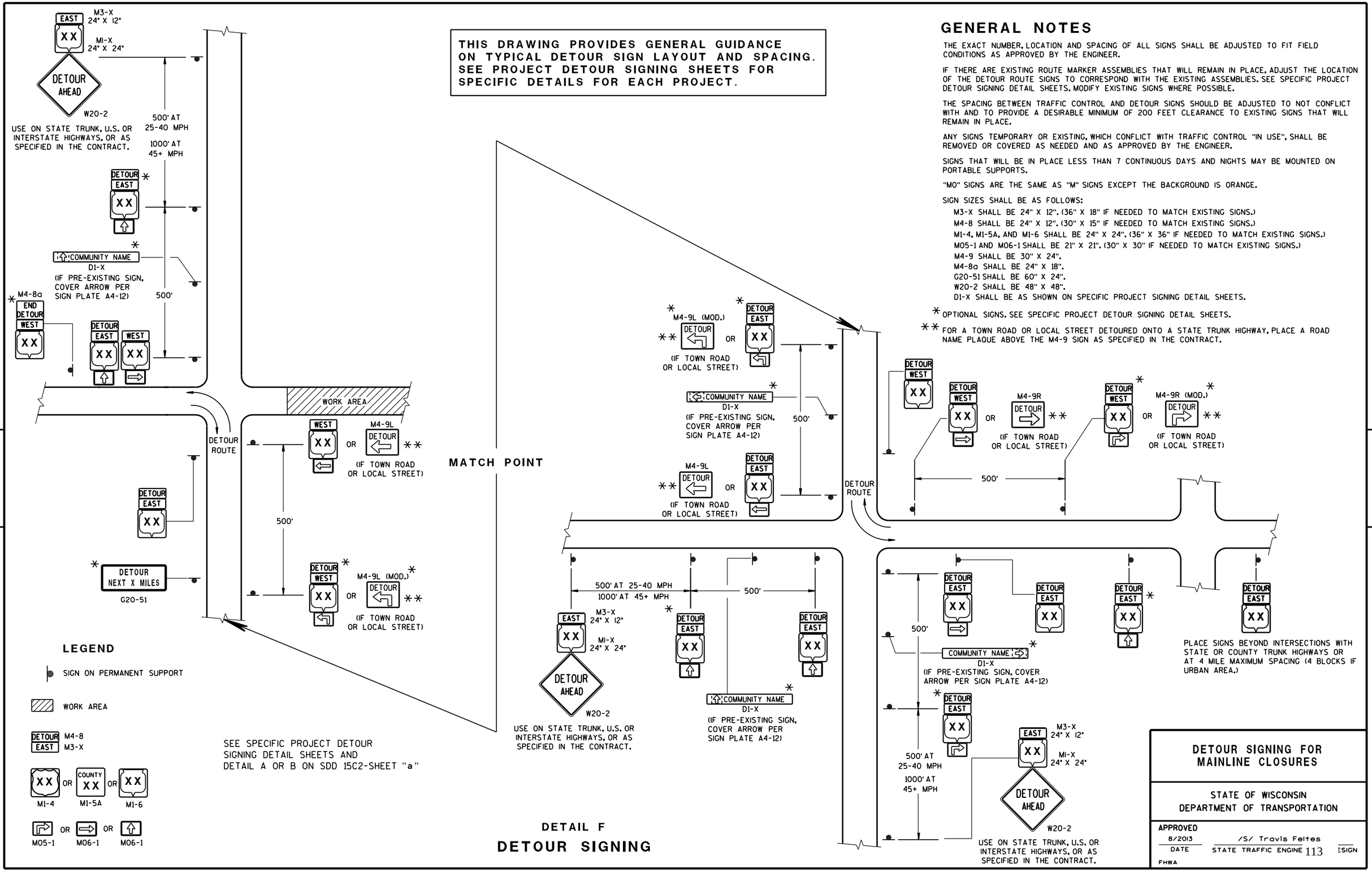
"MO" SIGNS ARE THE SAME AS "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

SIGN SIZES SHALL BE AS FOLLOWS:

- M3-X SHALL BE 24" X 12". (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS.)
- M4-8 SHALL BE 24" X 12". (30" X 15" IF NEEDED TO MATCH EXISTING SIGNS.)
- M1-4, M1-5A, AND M1-6 SHALL BE 24" X 24". (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS.)
- M05-1 AND M06-1 SHALL BE 21" X 21". (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS.)
- M4-9 SHALL BE 30" X 24".
- M4-8a SHALL BE 24" X 18".
- G20-51 SHALL BE 60" X 24".
- W20-2 SHALL BE 48" X 48".
- D1-X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.

* OPTIONAL SIGNS. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS.

** FOR A TOWN ROAD OR LOCAL STREET DETOURED ONTO A STATE TRUNK HIGHWAY, PLACE A ROAD NAME PLAQUE ABOVE THE M4-9 SIGN AS SPECIFIED IN THE CONTRACT.



DETAIL F

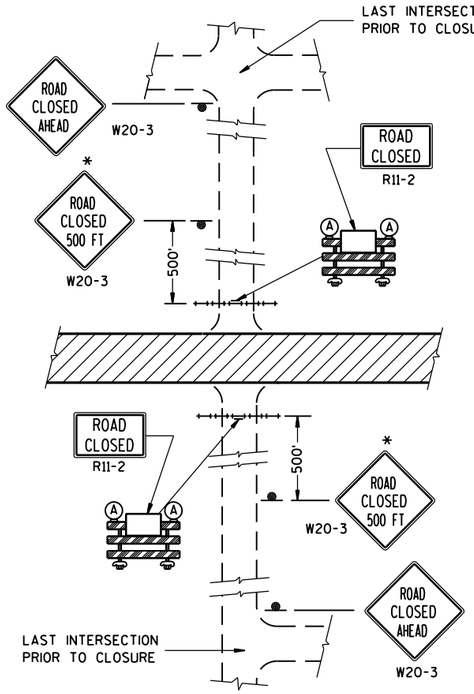
DETOUR SIGNING

DETOUR SIGNING FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

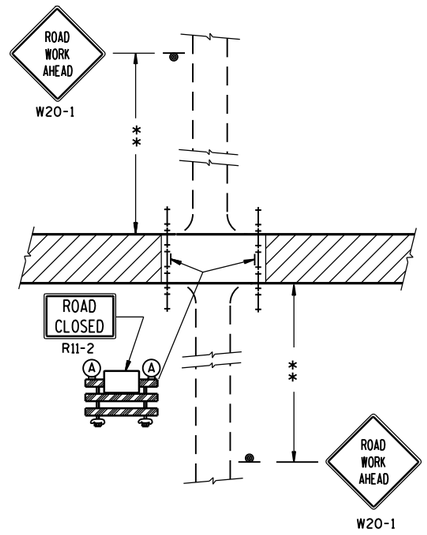
APPROVED
8/2013 — DATE
/S/ Travis Feltes — STATE TRAFFIC ENGINEER
FHWA

6 S.D.D. 15 C 2-5c



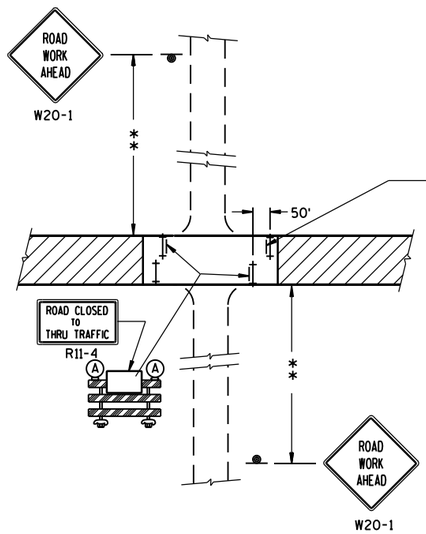
DETAIL 1

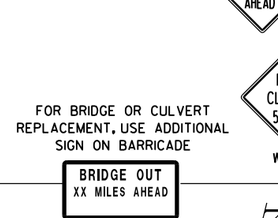
(NO ACCESS TO PROJECT)



DETAIL 2

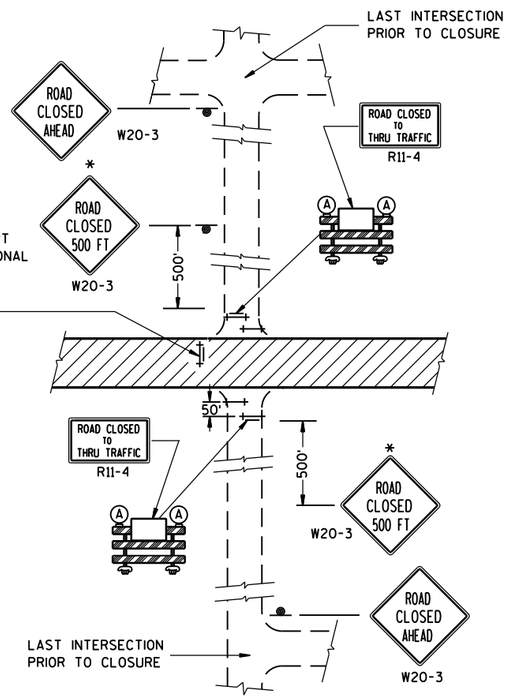
(PUBLIC CROSS-TRAFFIC MAINTAINED. NO ACCESS TO PROJECT).





DETAIL 3

(PUBLIC CROSS-TRAFFIC MAINTAINED. CONTRACTOR, LOCAL BUSINESS AND RESIDENT ACCESS).



DETAIL 4

(CONTRACTOR, LOCAL BUSINESS AND RESIDENT ACCESS TO PROJECT)

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND BARRICADES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS RE-ESTABLISHED.

BARRICADES THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION OR, FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ALL TYPE III BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES. STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL D FOR FULL ROAD CLOSURES.

TYPE "A" LOW-INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

THE R11-2, R11-3 AND R11-4 SIGNS PLACED ON BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE OR BOTTOM RAILS.

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:
R11-2 SHALL BE 48" X 30".
R11-4 AND R11-3 SHALL BE 60" X 30".

*OMIT THE "ROAD CLOSED 500 FT." SIGN IF THE LAST INTERSECTION IS 500 FT. OR LESS FROM THE WORK ZONE.

**500' MAX. OR AT LAST INTERSECTION WHICHEVER IS CLOSER.

LEGEND

- SIGN ON PERMANENT SUPPORT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- (A) TYPE "A" WARNING LIGHT (FLASHING)
- WORK AREA

BARRICADES AND SIGNS FOR SIDEROAD CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
8/2013 — DATE
/S/ Travis Feltes — STATE TRAFFIC ENGINEER
FHWA

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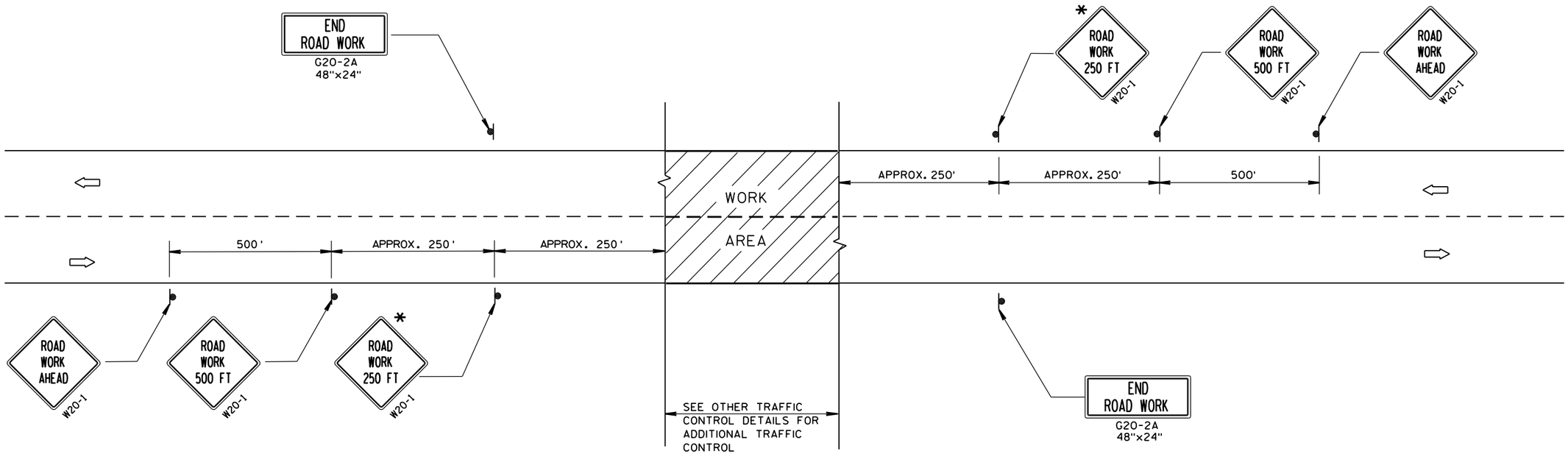
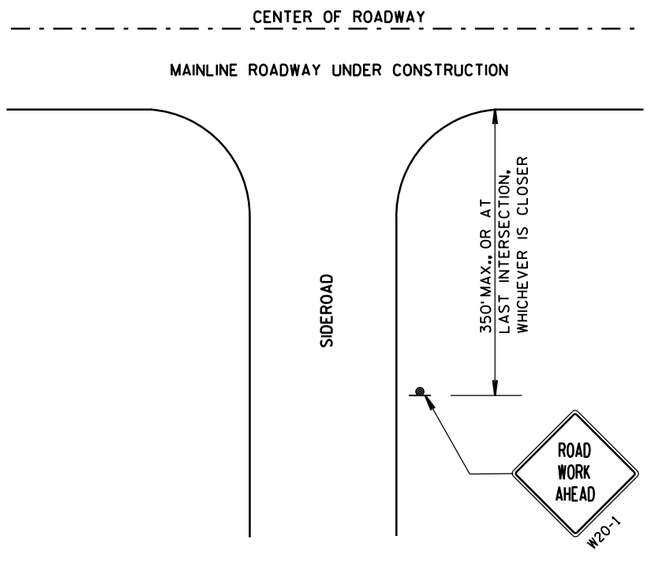
S.D.D. 15 C 3-2

6

S.D.D. 15 C 3-2



TYPICAL SIDEROAD APPROACH WARNING SIGN DETAIL



GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS, 36"x36" SIGNS MAY BE USED INSTEAD OF 48"x48" SIGNS.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS RE-ESTABLISHED.

* THE THIRD W20-1 SIGN IS REQUIRED ONLY IF THERE IS AN INTERSECTION BETWEEN THE "ROAD WORK 500 FT" SIGN AND THE WORK ZONE. ADJUST THE PLACEMENT OF THIS SIGN BASED ON INTERSECTION LOCATION AND OTHER FIELD CONDITIONS.

LEGEND

- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- WORK AREA

TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

8/2013 — DATE

/S/ Travis Feltes — STATE TRAFFIC ENGINEER

FHWA

SIGN

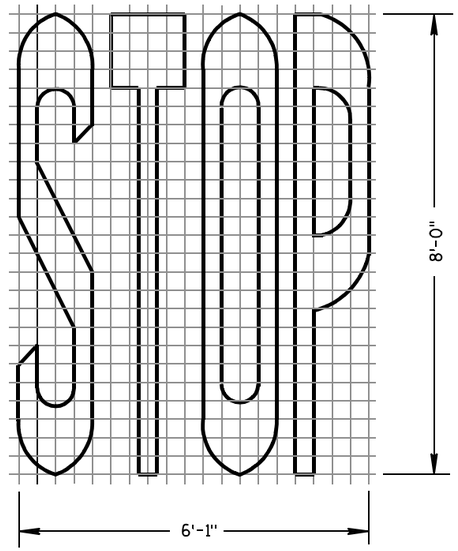
6

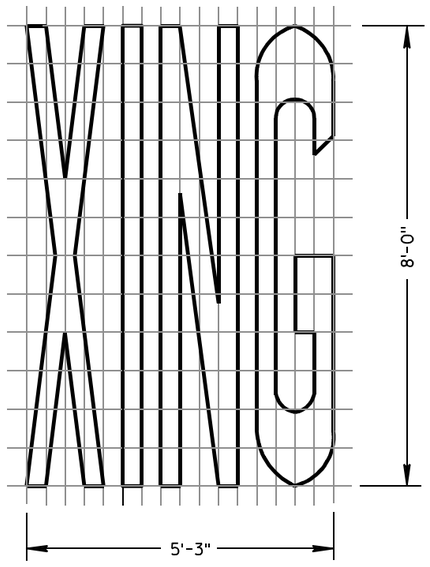
S.D.D. 15 C 5-2

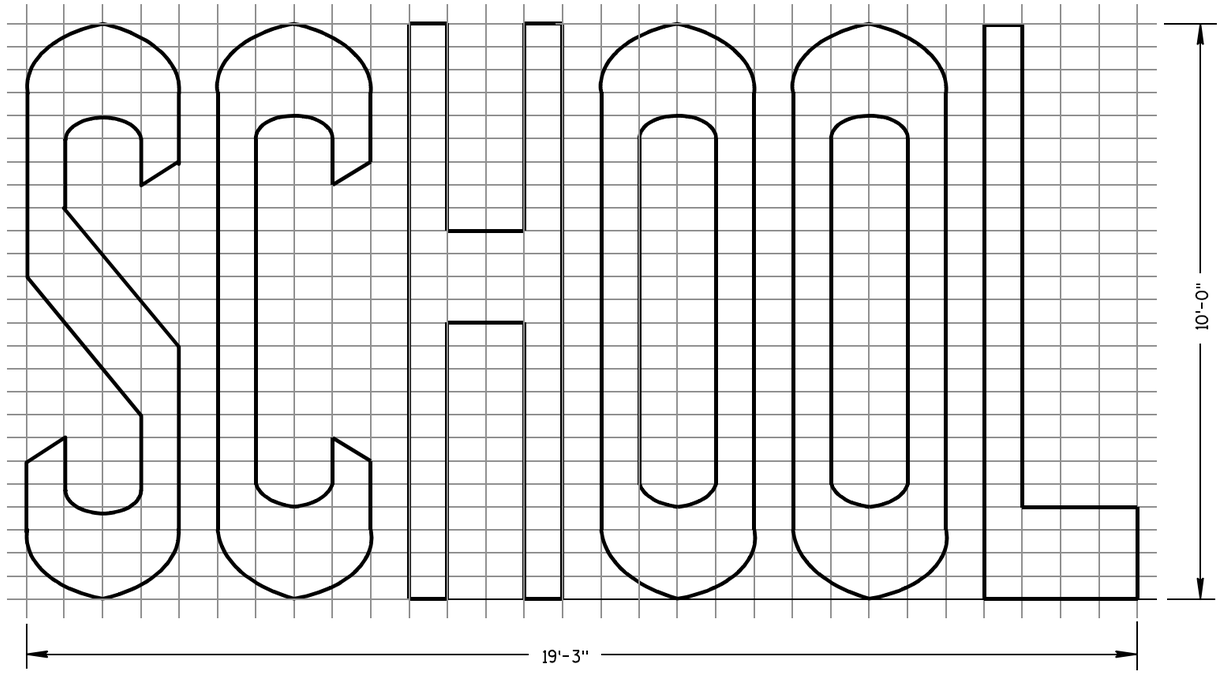
GENERAL NOTES

DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

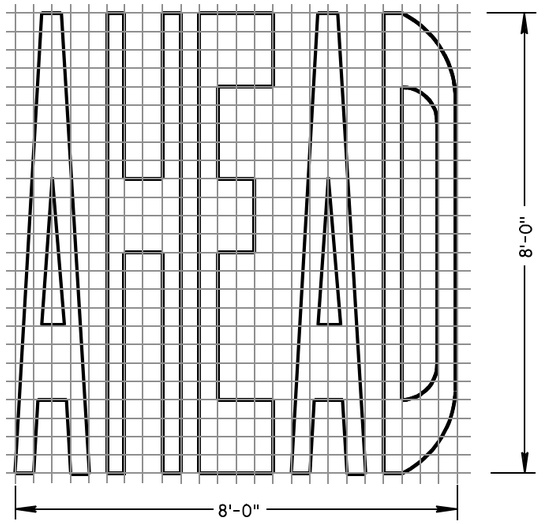
ALL LETTERS, ARROWS AND SYMBOLS SHALL BE IN CONFORMANCE WITH REQUIREMENTS INCLUDED IN "STANDARD ALPHABETS FOR HIGHWAY SIGNS AND PAVEMENT MARKING" BOOK BY THE FEDERAL HIGHWAY ADMINISTRATION. ALL LETTERS, ARROWS AND SYMBOLS SHALL BE WHITE AND REFLECTORIZED. SMALL DIFFERENCES IN DIMENSIONS WITHIN THE TOLERANCES OF THAT BOOK ARE ACCEPTABLE.

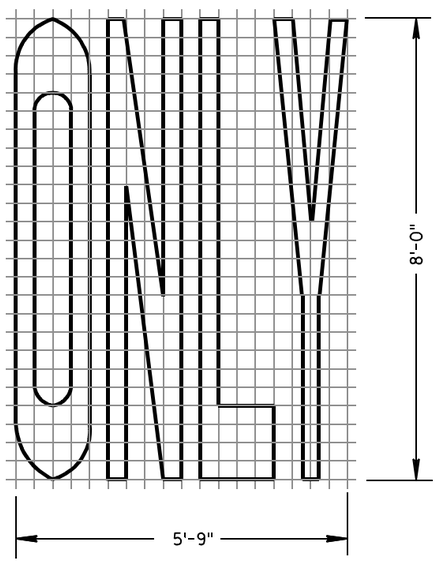


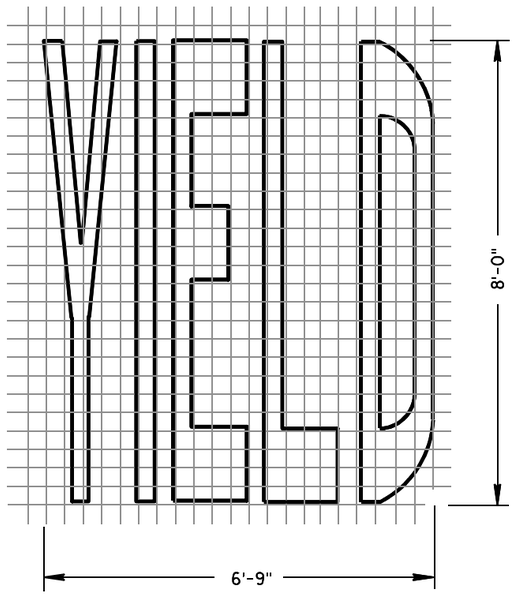


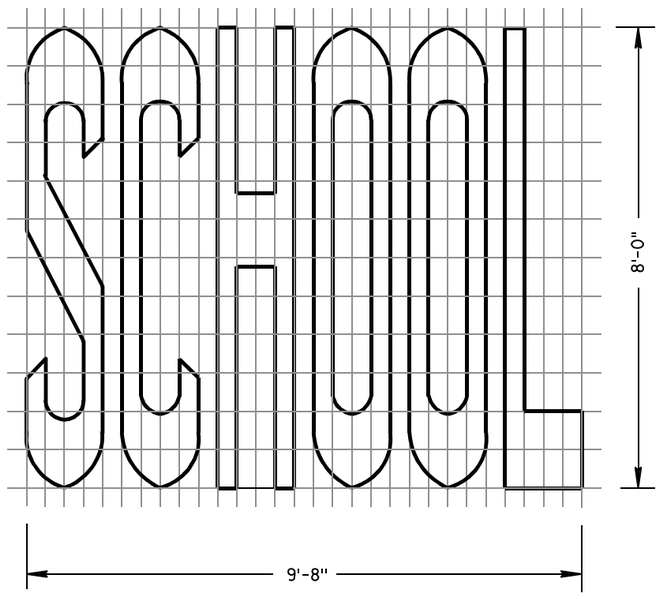


TWO-LANE









SINGLE-LANE

PAVEMENT MARKING WORDS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

7-1-11 DATE — /S/ Thomas N. Nothohm STATE TRAFFIC ENGINEER — IGN

FHWA

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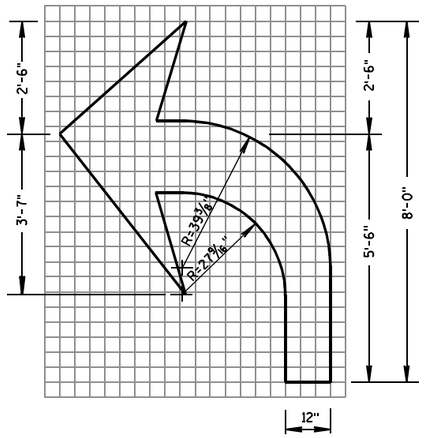
S.D.D. 15 C 7-12b

GENERAL NOTES

DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

ALL LETTERS, ARROWS AND SYMBOLS SHALL BE IN CONFORMANCE WITH REQUIREMENTS INCLUDED IN "STANDARD ALPHABETS FOR HIGHWAY SIGNS AND PAVEMENT MARKING" BOOK BY THE FEDERAL HIGHWAY ADMINISTRATION. ALL LETTERS, ARROWS AND SYMBOLS SHALL BE WHITE AND REFLECTORIZED. SMALL DIFFERENCES IN DIMENSIONS WITHIN THE TOLERANCES OF THAT BOOK ARE ACCEPTABLE.



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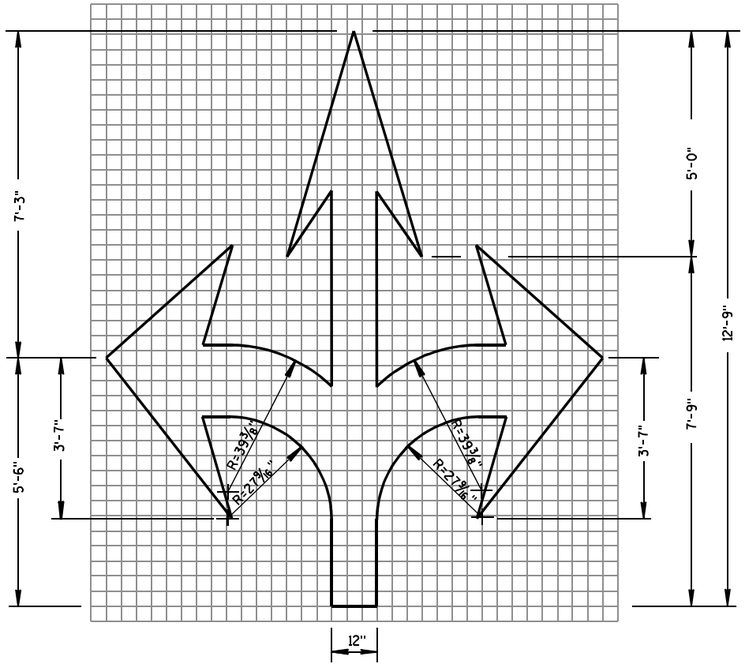
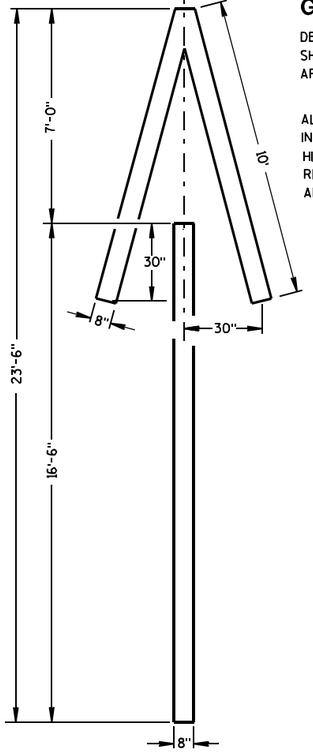
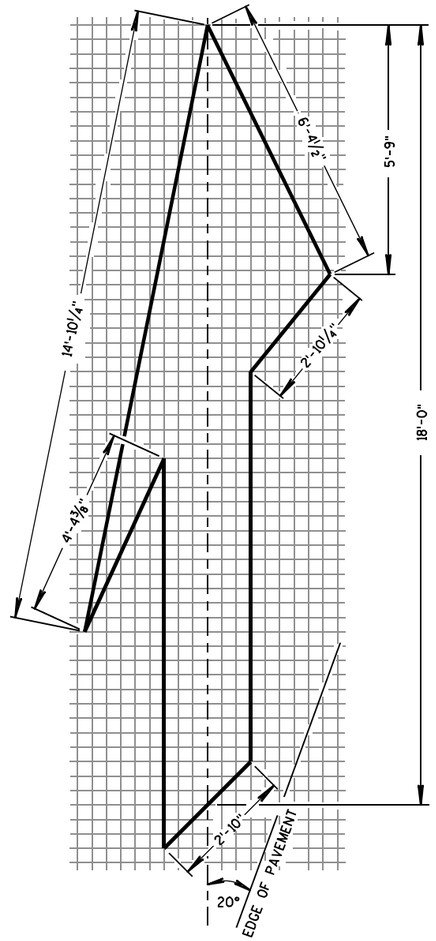


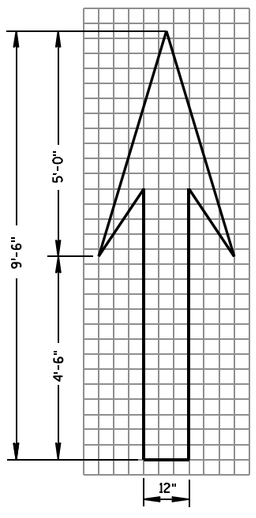
TYPE 6



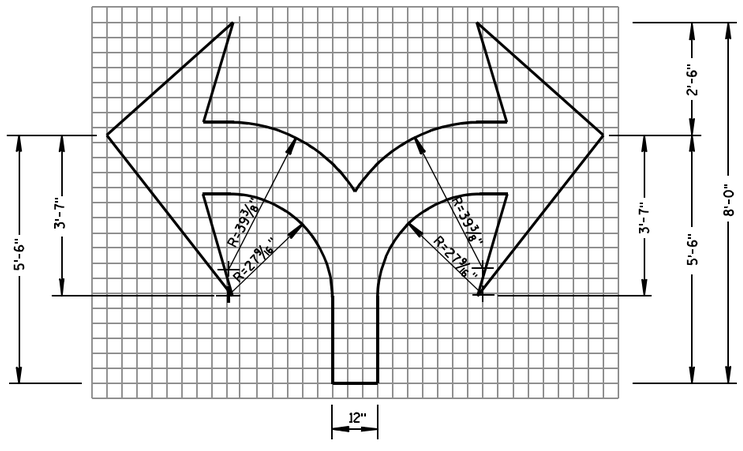
TYPE 4



TYPE 5 LANE DROP ARROW



TYPE 1



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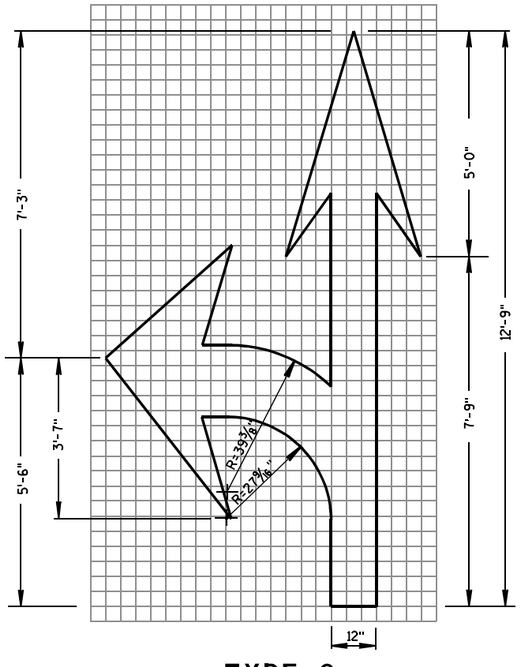


TYPE 3

PAVEMENT MARKING ARROWS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

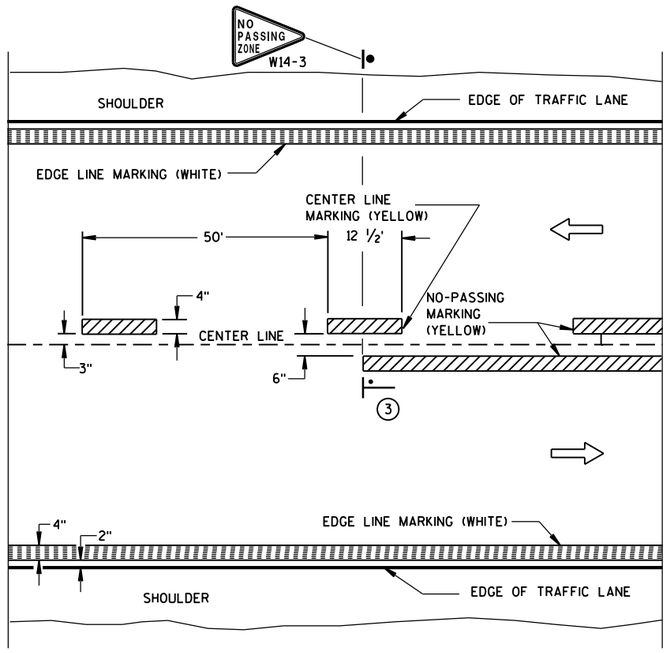
APPROVED

7/1/11 — DATE

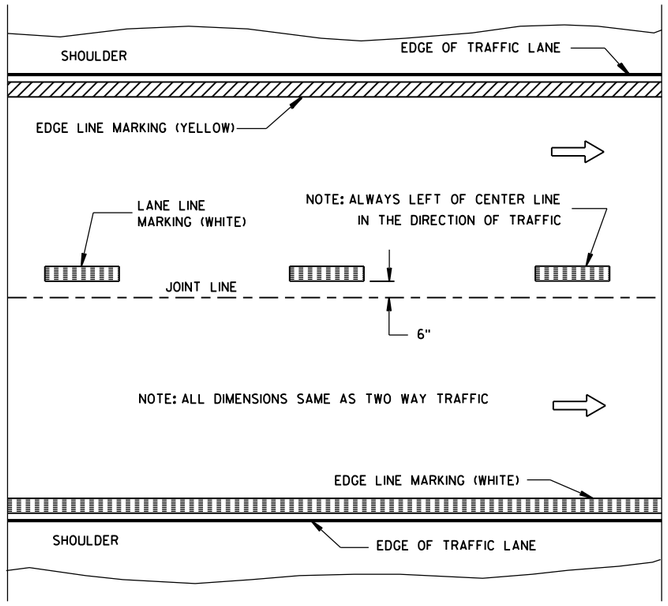
/S/ Thomas N. Nothohm — STATE TRAFFIC ENGINE[illegible] SIGN

FHWA

S.D.D. 15 C 7-12c

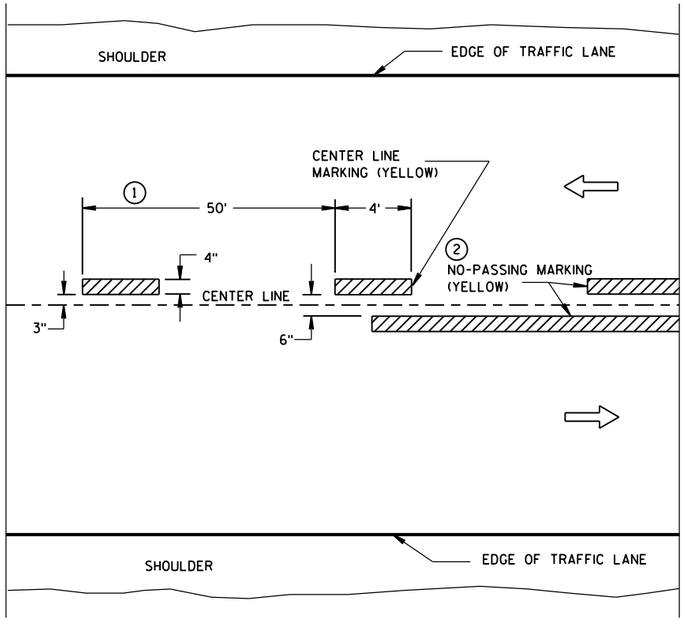


TWO WAY TRAFFIC

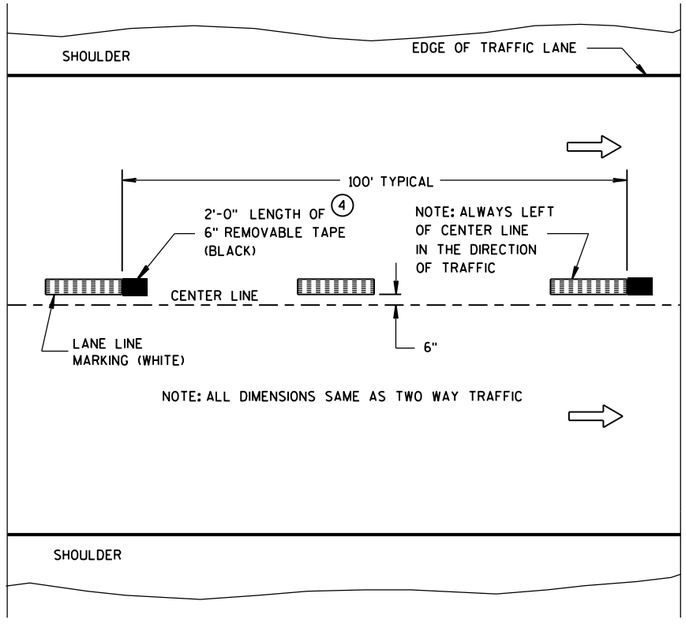


ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING



TWO WAY TRAFFIC



ONE WAY TRAFFIC

TEMPORARY (INTERMEDIATE) PAVEMENT MARKING

(SHOWS CYCLE FOR TEMPORARY CENTER LINE OR TEMPORARY LANE LINE MARKING)

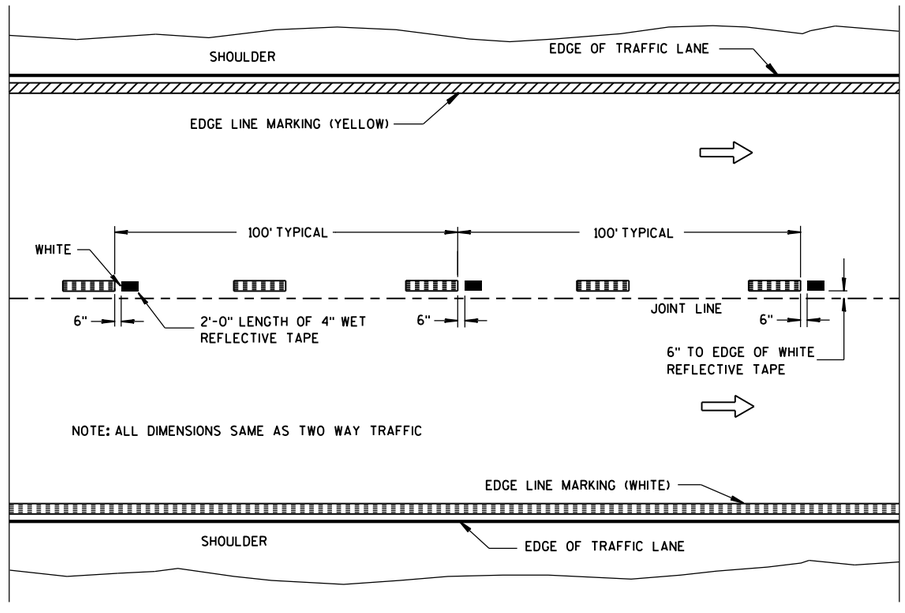
GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.

1. HALF CYCLE LENGTHS (25'±) WITH 2' MINIMUM STRIPE LENGTHS SHALL BE PROVIDED ON ROADWAYS (INCLUDING TEMPORARY TRAVELED WAYS) WITH REVERSE CURVATURE, CURVATURE OF OVER 5 DEGREES OR WHEN DIRECTED BY THE ENGINEER TO MARK UNUSUAL ALIGNMENT OF THE TRAVELED WAY.
2. NO PASSING ZONE TEMPORARY PAVEMENT MARKING IS REQUIRED TO BE PLACED, WHERE APPROPRIATE, ALONG WITH CENTERLINE TEMPORARY PAVEMENT MARKING WHEN A SAME DAY PERMANENT PAVEMENT MARKING ITEM IS INCLUDED IN THE CONTRACT.
3. NO PASSING ZONE MARKINGS ARE PLACED ACCORDING TO "T" MARKINGS. IF EXISTING NO PASSING ZONE W14-3 SIGNS ARE BEYOND 50 FEET IN EITHER DIRECTION, THE SIGNS SHALL BE MOVED TO THE "T" MARKINGS.
4. CONCRETE ONLY.

NOTE

ARROW SYMBOL (⇨) SHOWS DIRECTION OF TRAVEL



WET REFLECTIVE TAPE SUPPLEMENT TO
SPRAYED OR NON WET REFLECTIVE TAPE LANE LINE

LEGEND

"T" MARKING

POST MOUNTED SIGN

PAVEMENT MARKING (MAINLINE)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

5-13-2013 — DATE

/S/ Travis Feltes — STATE TRAFFIC E

FHWA

6

S.D.D. 15 C 8-16a

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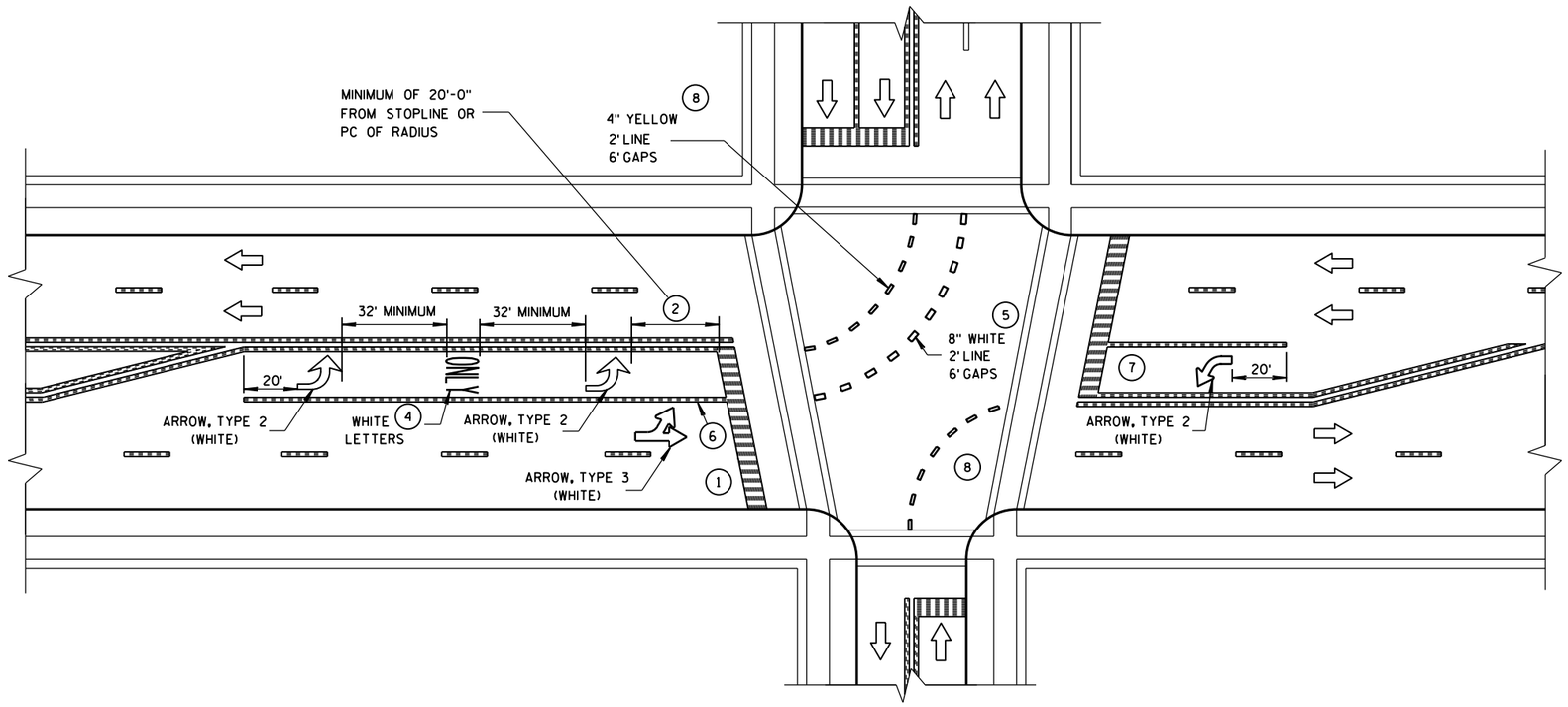
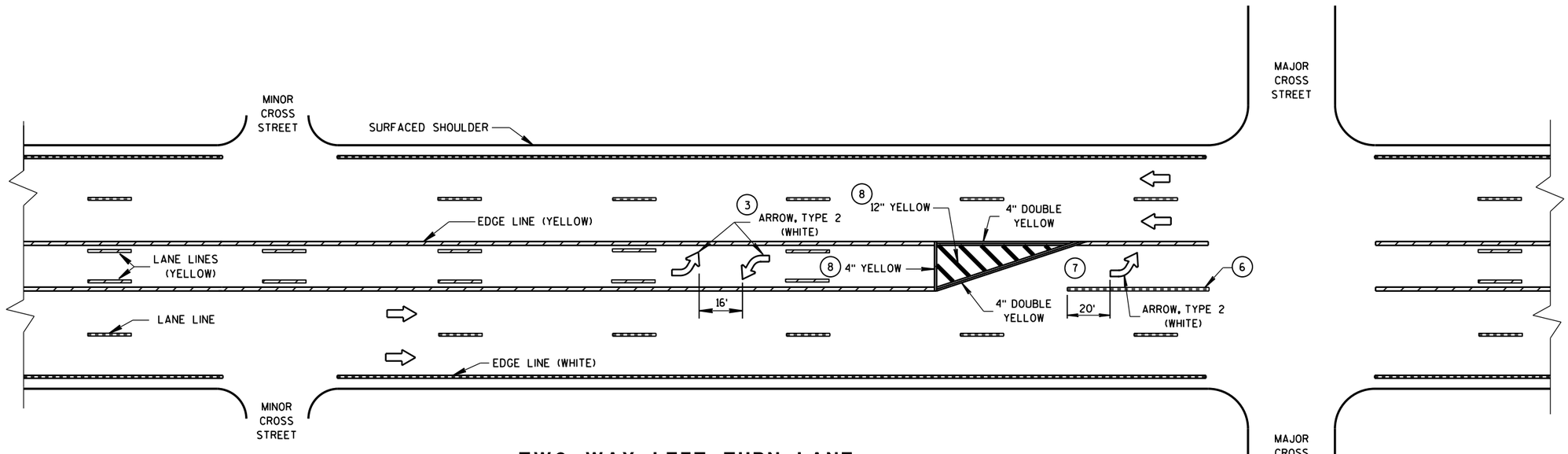
S.D.D. 15 C 8-16a



GENERAL NOTES

1. STOP BAR IS REQUIRED ONLY WHEN SPECIFIED IN THE CONTRACT.
2. DISTANCE MAY BE ADJUSTED TO ACCOMODATE SHORT LEFT TURN LANES. AS APPROVED BY THE ENGINEER.
3. A SET OF ARROWS IS REQUIRED EVERY 400 FEET OR NEAR INTERSECTIONS OR DRIVEWAYS WITH TURNING TRAFFIC.
4. ADD EXTRA SETS OF ONE ARROW AND ONE ONLY PER 160 FEET OR WHEN ON A CURVE.
5. 8" WHITE WITH 2' LINE 6' GAPS FOR DUAL TURN LANE.
6. 8" WHITE
7. ADD SECOND ARROW WHEN TURN BAY IS GREATER THAN OR EQUAL TO 108 FEET.
8. REQUIRED ONLY WHEN SPECIFIED IN THE CONTRACT.

NOTE:
ARROW SYMBOL (⇨)
SHOWS DIRECTION OF TRAVEL



TWO WAY LEFT TURN LANE

PAVEMENT MARKING (LEFT TURN LANE)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

S.D.D. 15 C 8-16e

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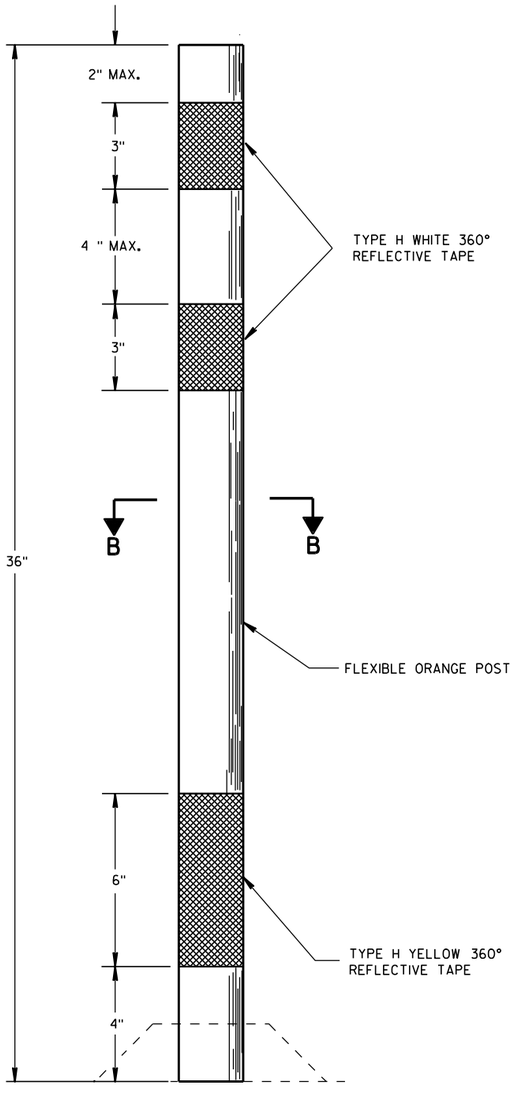
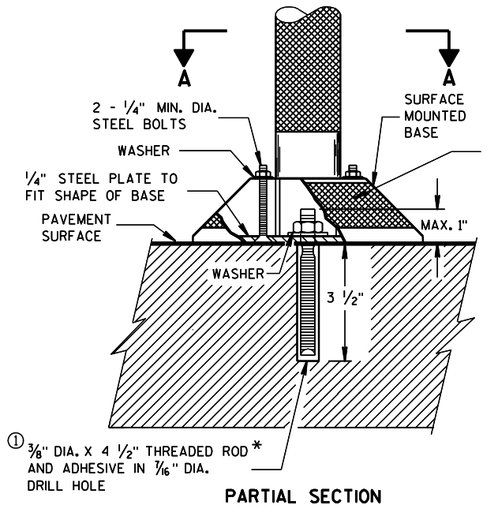
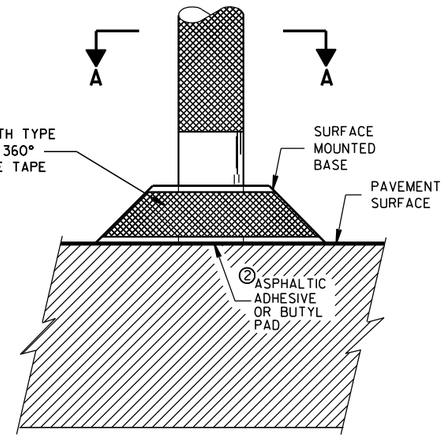
S.D.D. 15 C 8-16e



FLEXIBLE TUBULAR MARKER POST



PARTIAL SECTION TO SHOW BOLTS



POST BASES ON NEW OR EXISTING PAVEMENT

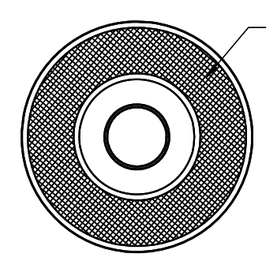
GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

SURFACE MOUNTED BASES SHALL BE FURNISHED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS TO BE COMPATIBLE WITH FLEXIBLE TUBULAR MARKER POSTS TO A SIZE AND SHAPE THAT WILL PROVIDE A STABLE POST FOUNDATION WHEN SECURED TO THE PAVEMENT.

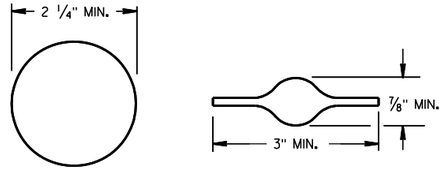
① THREADED ROD SHALL BE MACHINED DOWN TO 0.280 INCH DIA. 1 1/4 INCHES FROM THE TOP.

② THE ASPHALTIC ADHESIVE OR BUTYL PAD FURNISHED SHALL BE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.



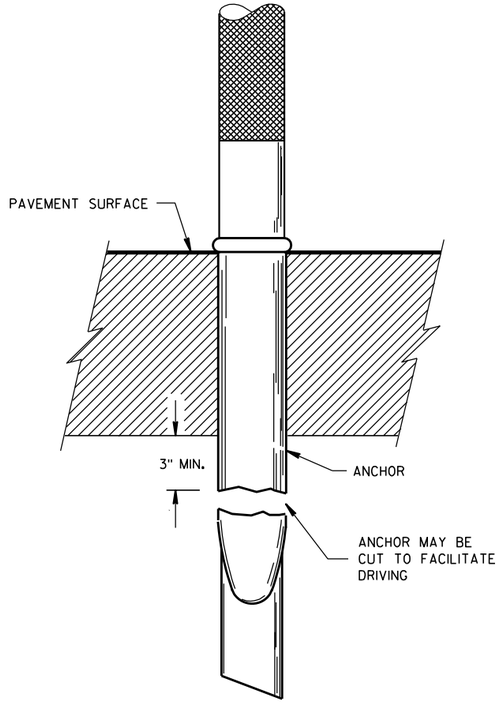
SECTION A-A

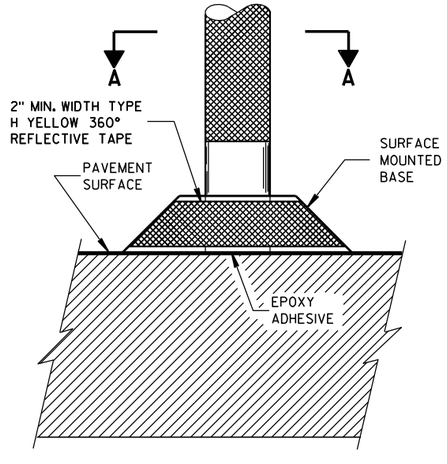
SURFACE MOUNTED BASE



SECTION B-B

ALTERNATIVE SHAPES





POST ANCHOR AND BASE ON PAVEMENT WHICH WILL BE REMOVED

FLEXIBLE TUBULAR MARKER POST, ANCHOR & BASES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

2/17/94 DATE

/S/ Chester J. [illegible] DIRECTOR, OFFICE O

FHWA

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S.D.D. 15 C 11-5

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S.D.D. 15 C 11-5

LEGEND

SIGN ON PORTABLE OR PERMANENT SUPPORT

DIRECTION OF TRAFFIC

WORK AREA

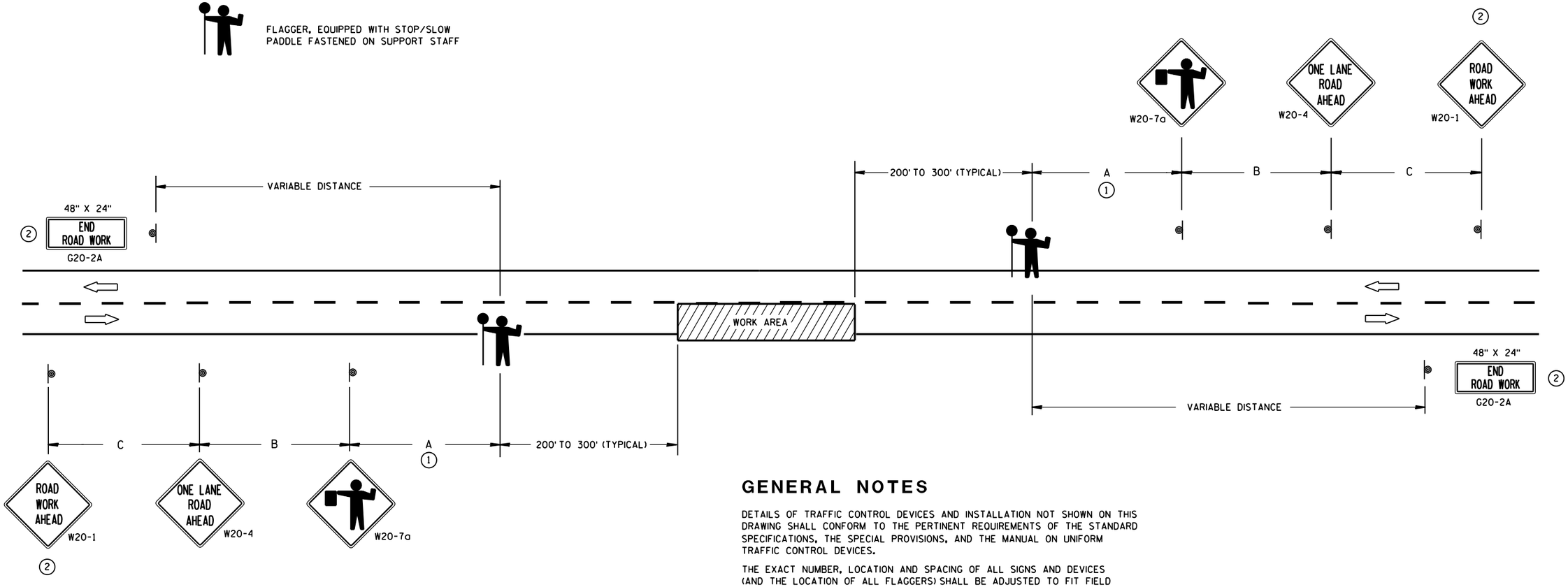
FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF

SIGN SPACING TABLE

SPEED LIMIT	SIGN SPACING A,B,C
25-35 MPH	200'
35-40 MPH	350'
45-55 MPH	500'

W3-4

USE OF THE "BE PREPARED TO STOP" SIGN IS OPTIONAL. WHEN USED, THIS SIGN SHALL BE LOCATED BETWEEN THE W20-7a AND W20-4 SIGNS. A 500' TYPICAL SPACING SHALL BE PROVIDED BETWEEN THE SIGNS.



(1) FOR A MOVING WORK OPERATION,
SIGNING FOR BOTH DIRECTIONS SHALL BE REESTABLISHED (AS SIMULTANEOUSLY AS PRACTICAL) AT APPROXIMATELY 3500 FOOT INTERVALS IN THE MOVING WORK OPERATION OR AS APPROVED BY THE ENGINEER.

(2) SIGN NOT REQUIRED IF FLAGGING OPERATION OCCURS WITHIN A SIGNED ROAD WORK ZONE AREA.

GENERAL NOTES

DETAILS OF TRAFFIC CONTROL DEVICES AND INSTALLATION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS AND DEVICES (AND THE LOCATION OF ALL FLAGGERS) SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE FIRST ADVANCE WARNING SIGN SHOULD TYPICALLY BE LOCATED IN ADVANCE OF THE ANTICIPATED TRAFFIC BACKUP OR QUEUE.

WHEN A SIDE ROAD OR RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS APPROVED BY THE ENGINEER.

FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES. THEY SHALL BE EQUIPPED WITH STOP/SLOW PADDLES FASTENED ON SUPPORT STAFFS. WHEN THE FLAGGING OPERATION IS NOT IN EFFECT, COVER OR REMOVE ALL TEMPORARY TRAFFIC CONTROL SIGNS.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
8/2013 — DATE
/S/ Travis Feltes — STATE TRAFFIC ENGINEER
FHWA

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S.D.D. 15 C 12-4

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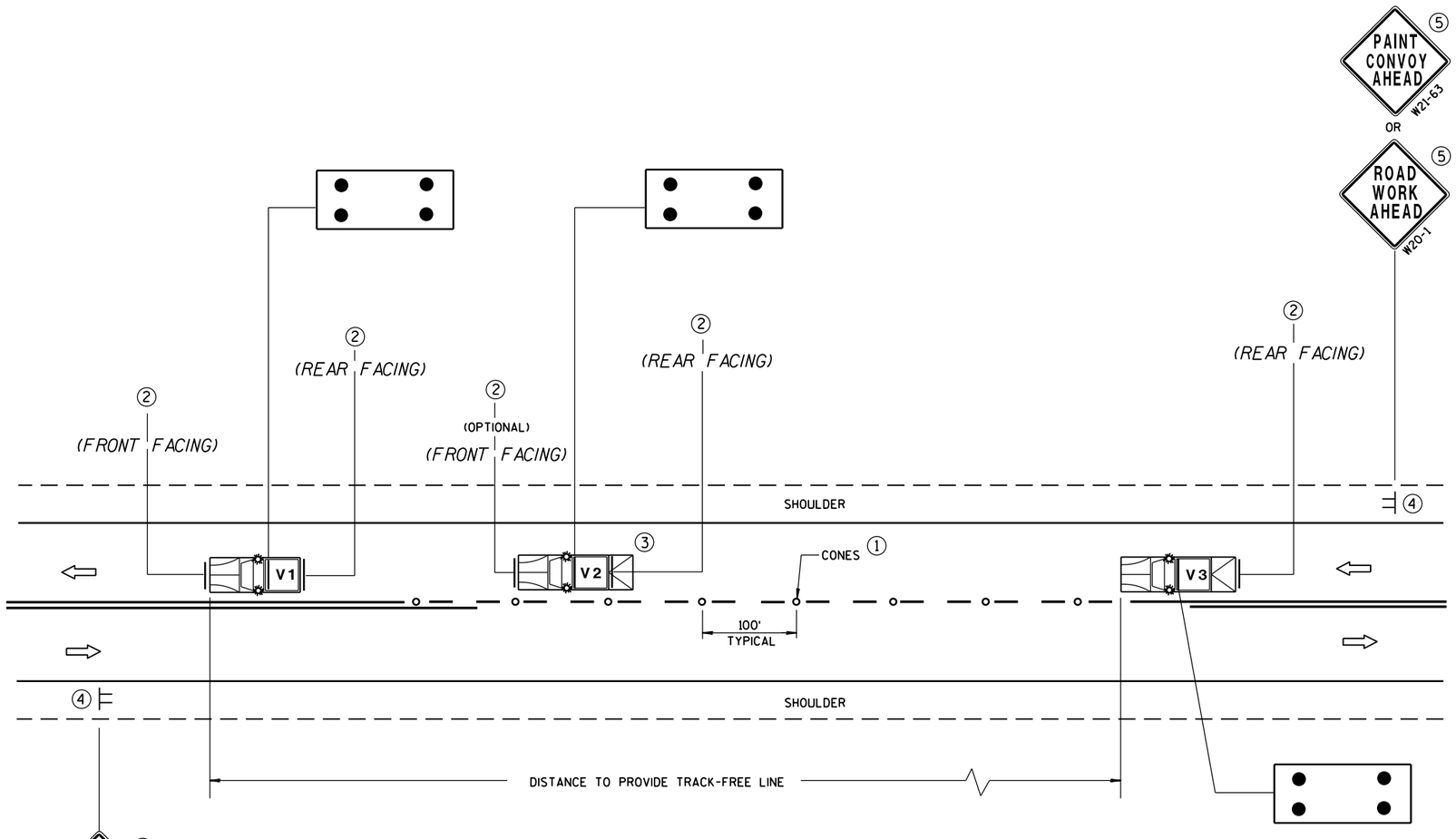
S.D.D. 15 C 12-4



MOVING PAVEMENT MARKING OPERATIONS
TWO-LANE TWO-WAY ROADWAY

GENERAL NOTES

ALL VEHICLES SHALL BE EQUIPPED WITH TWO 360 DEGREE HIGH INTENSITY YELLOW FLASHING LIGHTS OR STROBE LIGHTS AND OPERATED WITH HEADLIGHTS TURNED ON.

VEHICLES SHALL BE EQUIPPED WITH REAR FACING TYPE B OR C FLASHING ARROW PANEL OPERATING IN CAUTION MODE. SIGNS PLACED ON VEHICLES MUST NOT OBSCURE THE ARROW PANEL.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE SPECIFIED.

IF SPEED LIMIT IS 40 MPH OR LESS STATIONARY SIGNS MAY BE OMITTED IF CONES ARE USED.

ALTERNATE SIGN MESSAGES, SUCH AS "PAINT CREW AHEAD" OR "ROAD PAINTING AHEAD" MAY BE USED.

DISTANCE BETWEEN VEHICLES MAY VARY ACCORDING TO TERRAIN, SIGHT DISTANCE, PAINT DRYING TIME, AND OTHER FACTORS. WHENEVER ADEQUATE STOPPING SIGHT DISTANCE EXISTS TO THE REAR, SHADOW VEHICLES SHOULD MAINTAIN THE MINIMUM DISTANCE FROM THE WORK VEHICLE AND PROCEED AT THE SAME SPEED AS THE WORK VEHICLE. SHADOW VEHICLES SHOULD SLOW DOWN IN ADVANCE OF VERTICAL OR HORIZONTAL CURVES THAT RESTRICT SIGHT DISTANCE.

THE WORK AND SHADOW VEHICLES SHOULD PULL OVER PERIODICALLY TO ALLOW TRAFFIC TO PASS.

THIS DRAWING SHALL BE USED FOR CENTERLINE OR EDGELINE MARKING.

WHEN NO WORK ACTIVITY IS TAKING PLACE, REMOVE OR TURN THE STATIONARY WARNING SIGNS AWAY FROM TRAFFIC.

(1) CONES MAY BE OMITTED ON PAINTED LINE IF APPROVED BY THE ENGINEER. CONSIDER PAVEMENT MARKING DRY OR CURE TIMES AND TRAFFIC VOLUME.

(2) USE STANDARD SIGN W21-64 WITH APPROPRIATE ARROW.

WET PAINT W21-64 OR WET PAINT W21-64

(3) OPTIONAL TRUCK-MOUNTED ATTENUATOR.

(4) SIGNS SHALL BE REPEATED APPROXIMATELY EVERY THREE MILES.

(5) IF CONSTRUCTION WORK ZONE SIGNS ARE IN PLACE, W20-1 OR W21-63 ARE NOT REQUIRED.

LEGEND

- **V1** LEAD VEHICLE
- **V2** SHADOW VEHICLE
- **V3** TRAIL VEHICLE WITH TMA
- **TMA** TRUCK-MOUNTED ATTENUATOR
- SIGN ON TEMPORARY SUPPORT
- DIRECTION OF TRAFFIC
- CONES
- FLASHING ARROW PANEL (CAUTION)

MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED 5/3/2013 DATE	/S/ Travis Feltes STATE TRAFFIC E
FHWA	

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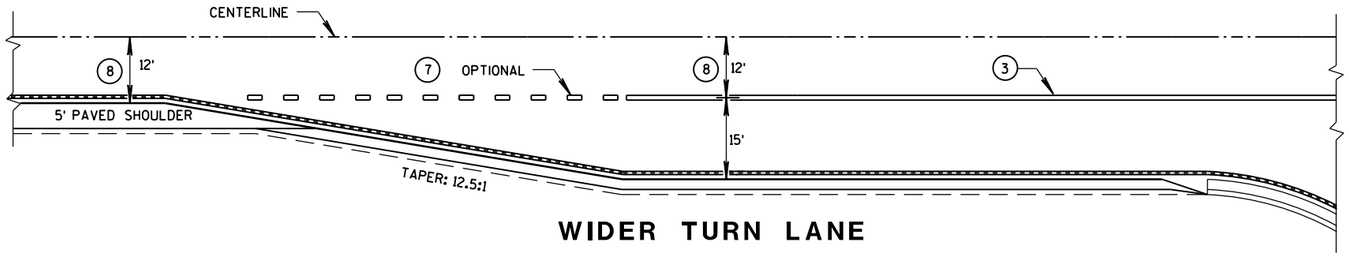
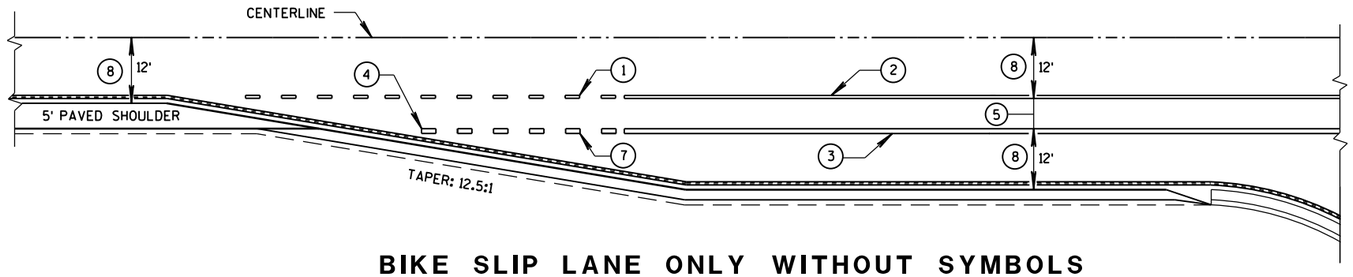
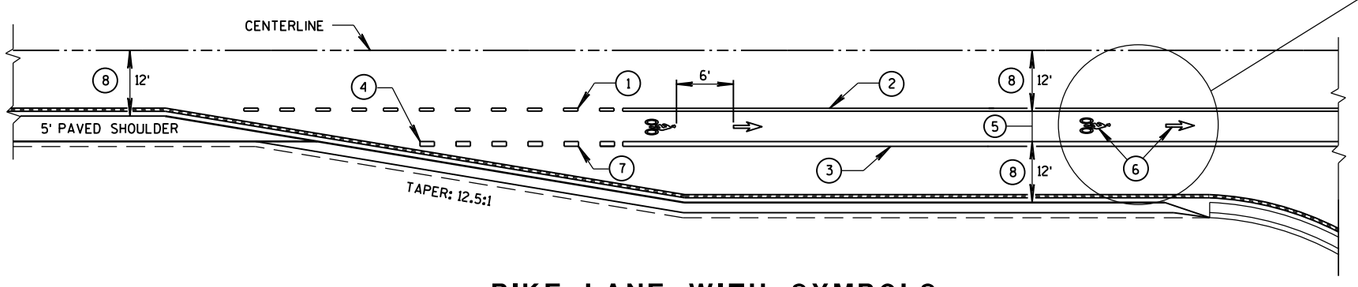
S.D.D. 15 C 19-2a



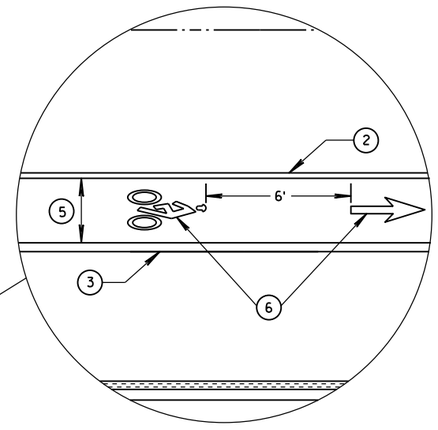
WIDER TURN LANE



BIKE SLIP LANE ONLY WITHOUT SYMBOLS



BIKE LANE WITH SYMBOLS



GENERAL NOTES

1. 3' LINE, 9' GAP - 4-INCH WIDE, WHITE.
2. 4-INCH, WHITE.
3. 8-INCH, WHITE.
4. IF SIGNED AND/OR MARKED AS A BICYCLE FACILITY INCLUDE SECOND LINE OF LINE-SPACE MARKING, OTHERWISE DO NOT.
5. BIKE ACCOMMODATION FOR CONCRETE PAVEMENT IS 5' WIDE.
   BIKE ACCOMMODATION FOR ASPHALT PAVEMENT IS A MINIMUM OF 4', 5' AT ≥ 45 MPH.
6. REQUIRED ONLY WHEN SPECIFIED IN THE CONTRACT.
7. 3' LINE, 9' GAP - 8-INCH WIDE, WHITE.
8. REFER TO CONTRACT PLANS.

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S.D.D. 15 C 29-3a

BICYCLE LANE MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

4/30/2013
DATE

/S/ Travis Feltes
STATE TRAFFIC E

FHWA

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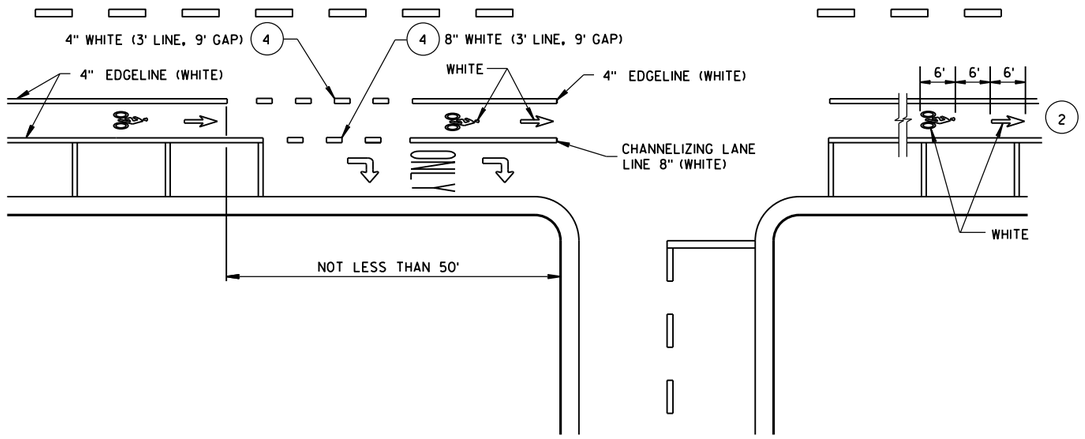
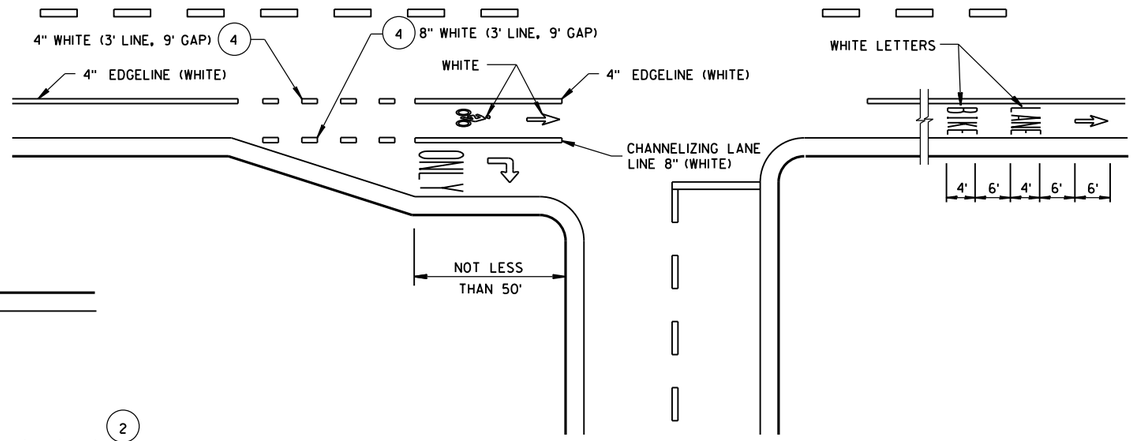
S.D.D. 15 C 29-3a



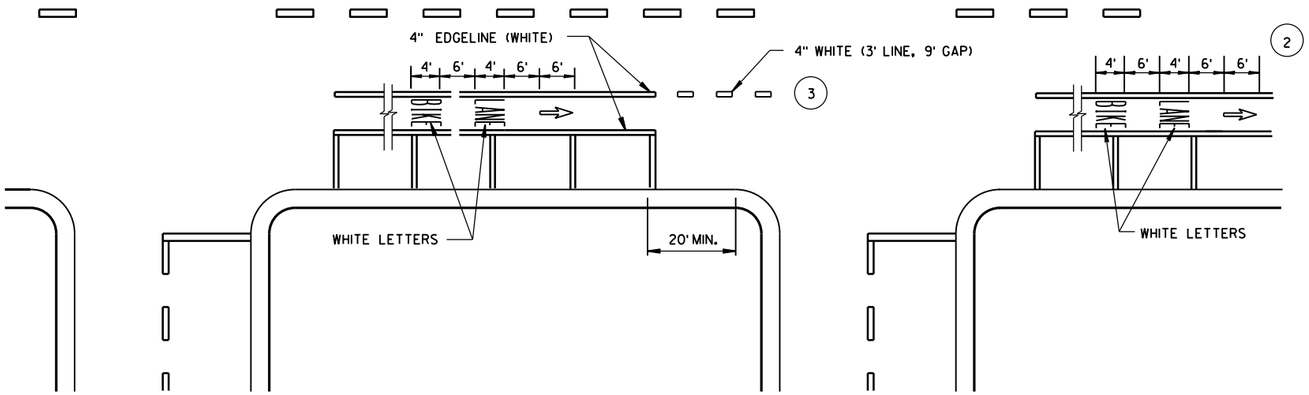
DESIGNATED BICYCLE LANE

GENERAL NOTES

1. DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.
2. THE SERIES OF PAVEMENT MARKING SYMBOLS SHALL BE REPEATED AFTER INTERSECTIONS AND SPACED A MAXIMUM OF 250'. NO PAVEMENT MARKING WILL TAKE PLACE IN THE CROSSWALK.
3. DOTTED LINES SHOULD BE USED 50' TO 200' IN ADVANCE OF AN INTERSECTION WHERE THERE IS NO RIGHT TURN ONLY LANE AND THERE IS HEAVY RIGHT TURN TRAFFIC OR THERE IS A NEAR-SIDE BUS STOP. AT OTHER INTERSECTIONS WHERE RIGHT TURN TRAFFIC IS LIGHT TO MODERATE, A SOLID LINE CAN BE USED UP TO THE INTERSECTION.
4. WHEN SPECIFIED IN THE CONTRACT.



DESIGNATED BICYCLE LANE
NO PARKING, RIGHT TURN LANE



DESIGNATED BICYCLE LANE
WITH PARKING, NO RIGHT TURN LANE

URBAN BICYCLE LANE MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
4/30/2013 DATE
/S/ Travis Feltes
STATE TRAFFIC E
FHWA

6

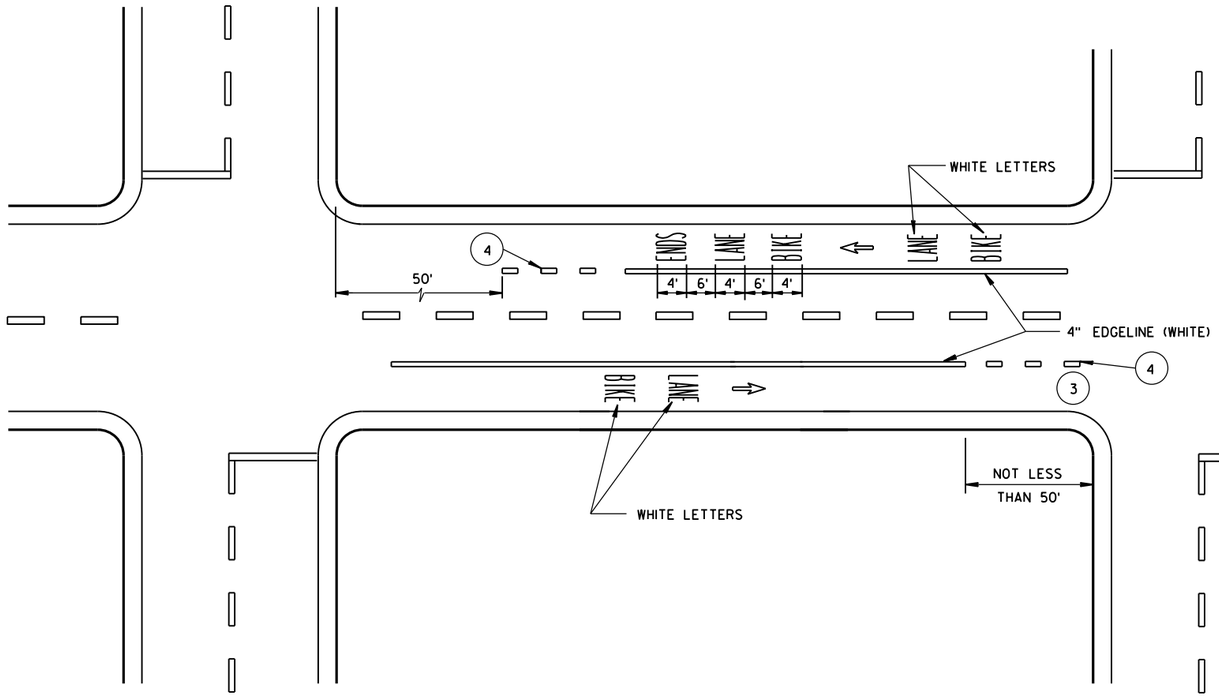
S.D.D. 15 C 29-3c

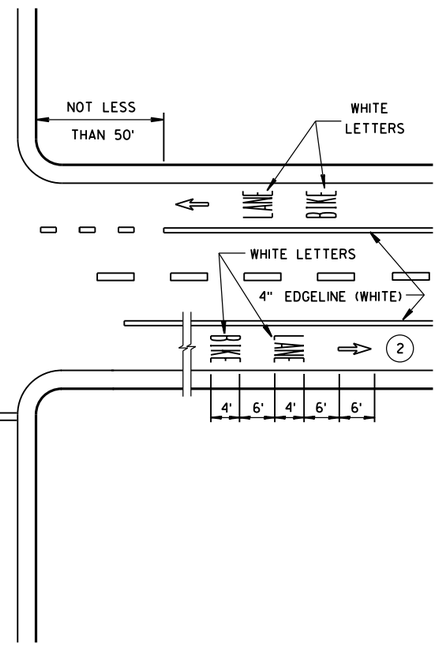
6

S.D.D. 15 C 29-3c

GENERAL NOTES

1. DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.
2. THE SERIES OF PAVEMENT MARKING SYMBOLS SHALL BE REPEATED AFTER INTERSECTIONS AND SPACED A MAXIMUM OF 250'. NO PAVEMENT MARKING WILL TAKE PLACE IN THE CROSSWALK.
3. DOTTED LINES SHOULD BE USED 50' TO 200' IN ADVANCE OF AN INTERSECTION WHERE THERE IS NO RIGHT TURN ONLY LANE AND THERE IS HEAVY RIGHT TURN TRAFFIC OR THERE IS A NEAR-SIDE BUS STOP. AT OTHER INTERSECTIONS WHERE RIGHT TURN TRAFFIC IS LIGHT TO MODERATE, A SOLID LINE CAN BE USED UP TO THE INTERSECTION.
4. 3' LINE, 9' GAP - 4" WIDE, WHITE.





DESIGNATED BICYCLE LANE
NO PARKING

URBAN BICYCLE LANE MARKING	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED 4/30/2013 DATE FHWA	/S/ Travis Feltes STATE TRAFFIC EN

6

S.D.D. 15 C 29-3d

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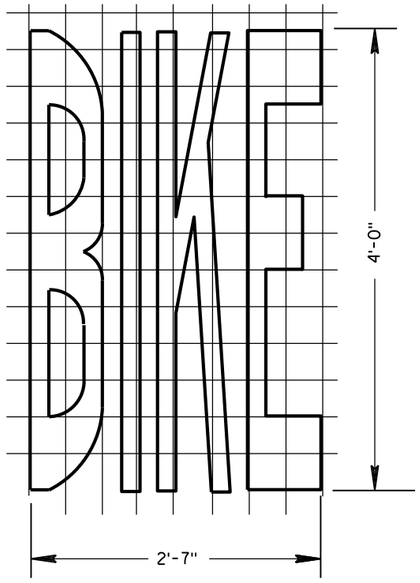
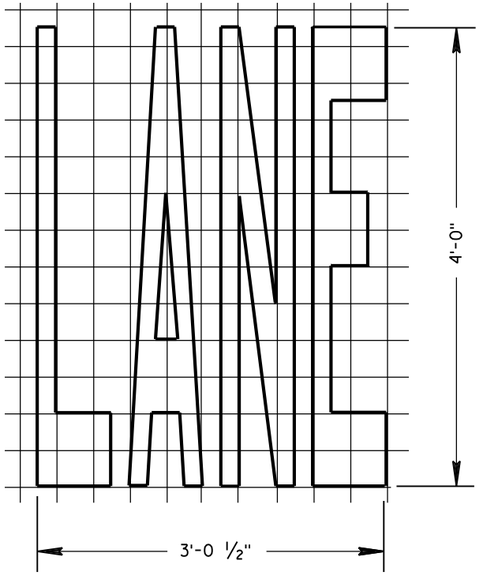
S.D.D. 15 C 29-3d

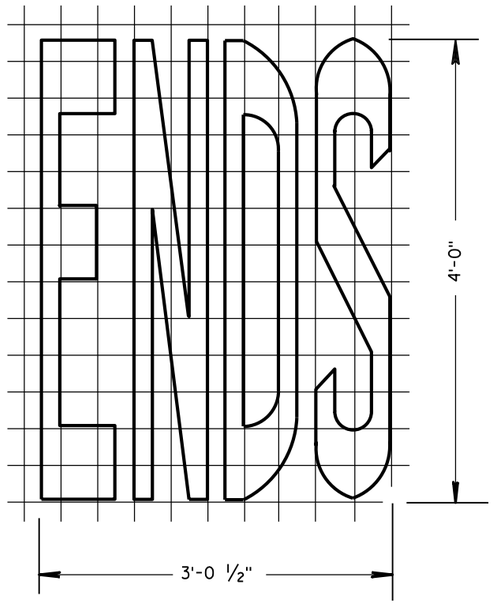
GENERAL NOTES

DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

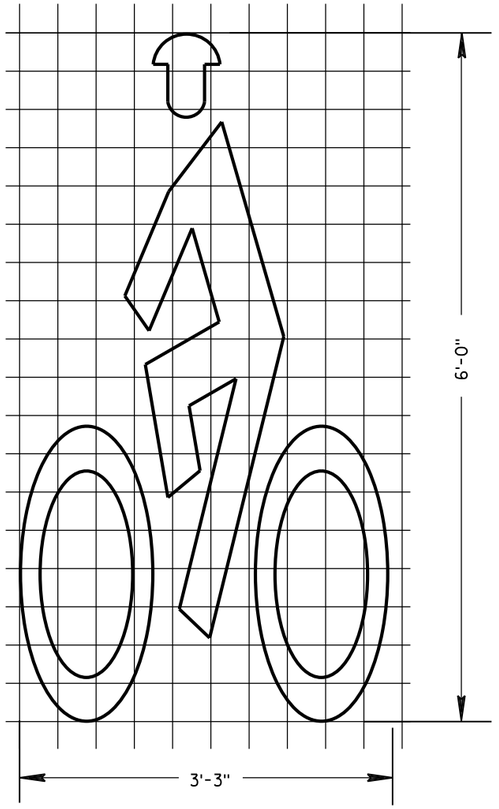
ALL LETTERS, ARROWS AND SYMBOLS SHALL BE IN CONFORMANCE WITH REQUIREMENTS INCLUDED IN "STANDARD ALPHABETS FOR HIGHWAY SIGNS AND PAVEMENT MARKING" BOOK BY THE FEDERAL HIGHWAY ADMINISTRATION. ALL LETTERS, ARROWS AND SYMBOLS SHALL BE WHITE AND REFLECTORIZED. SMALL DIFFERENCES IN DIMENSIONS WITHIN THE TOLERANCES OF THAT BOOK ARE ACCEPTABLE.



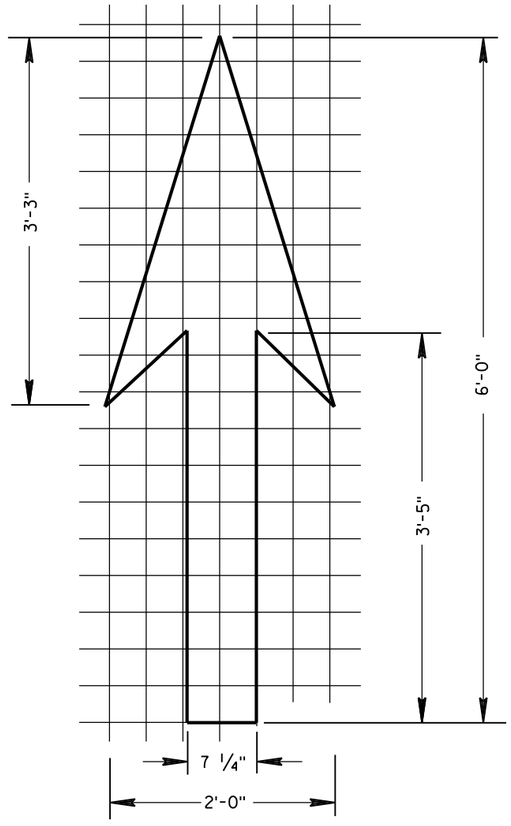




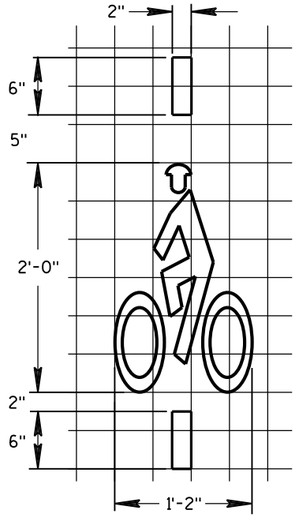
BIKE LANE WORDS



BIKE LANE SYMBOL



BIKE LANE ARROW



BICYCLE DETECTOR PAVEMENT MARKING

PAVEMENT MARKING FOR BIKE LANES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
4-30-2013
DATE

/S/ Travis Feltes
STATE TRAFFIC EN

FHWA

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S.D.D. 15 C 29-3e

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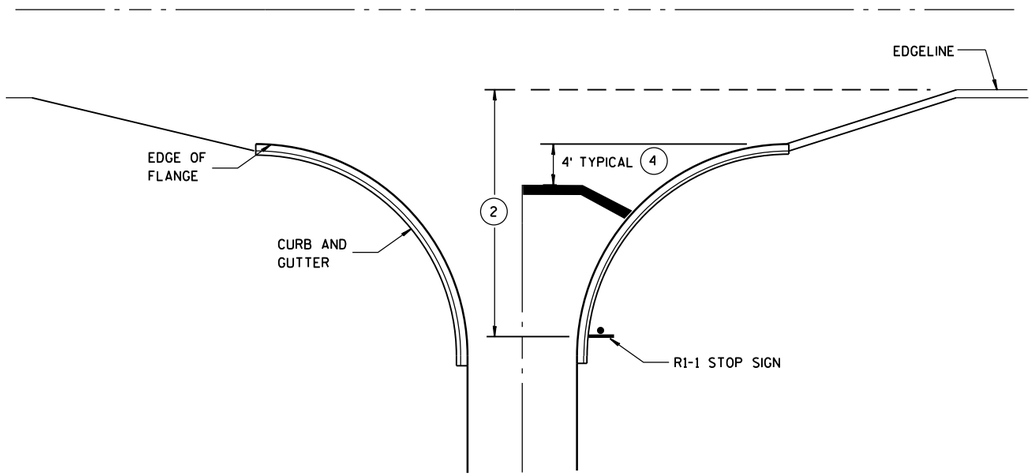
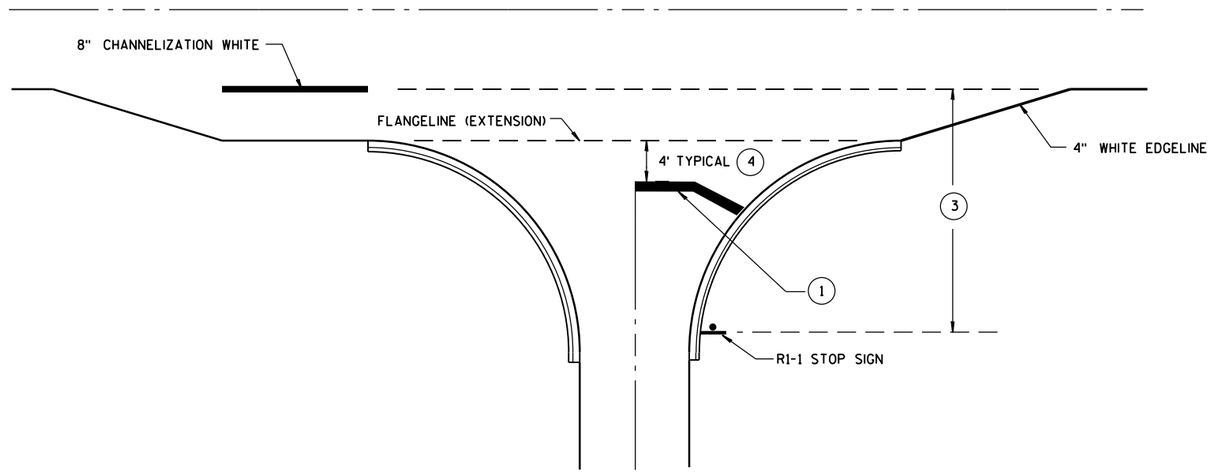
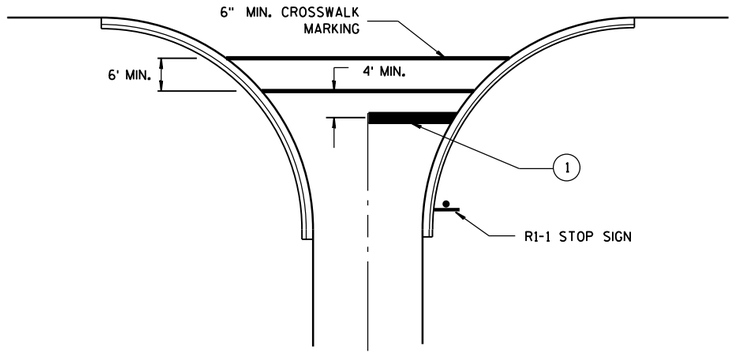


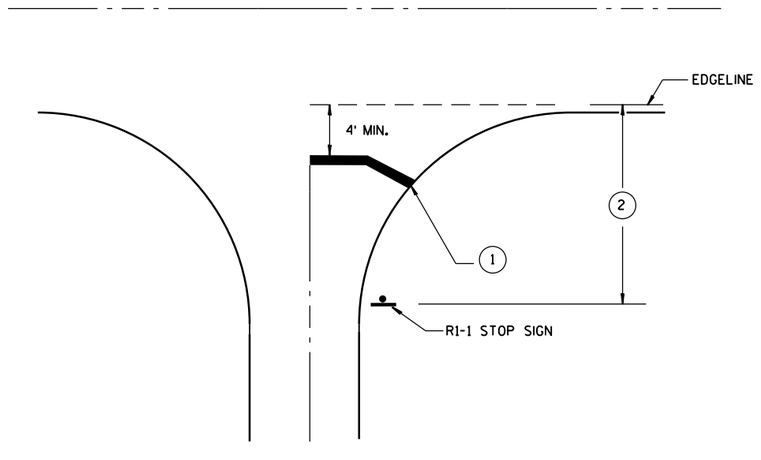
TYPICAL STOP LINE PAVEMENT MARKING WITH CURB AND GUTTER



TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH RIGHT TURN LANE



TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH CROSSWALK MARKING



TYPICAL STOP LINE PAVEMENT MARKING WITHOUT CURB AND GUTTER

GENERAL NOTES

1. 18-INCH STOP LINES MAY BE DELETED OR ADDED BY THE PROJECT ENGINEER BASED ON VISIBILITY AND SIGHT LINES.
2. IF STOP SIGN IS LESS THAN OR EQUAL TO 40 FEET FROM THE EDGELINE THAN NO STOP LINE IS REQUIRED.
3. IF STOP SIGN IS LESS THAN OR EQUAL TO 30 FEET FROM THE FLANGELINE EXTENSION THAN NO STOP LINE IS REQUIRED.
4. MOVE CLOSER TO EDGE OF TRAVEL LANE AS NEEDED FOR VISIBILITY AND SIGHT LINES.

STOP LINE AND CROSSWALK PAVEMENT MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

4/30/2013
DATE

/S/ Travis Feltes
STATE TRAFFIC E

FHWA

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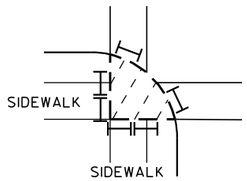
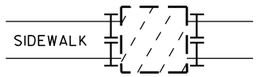
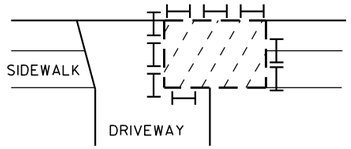
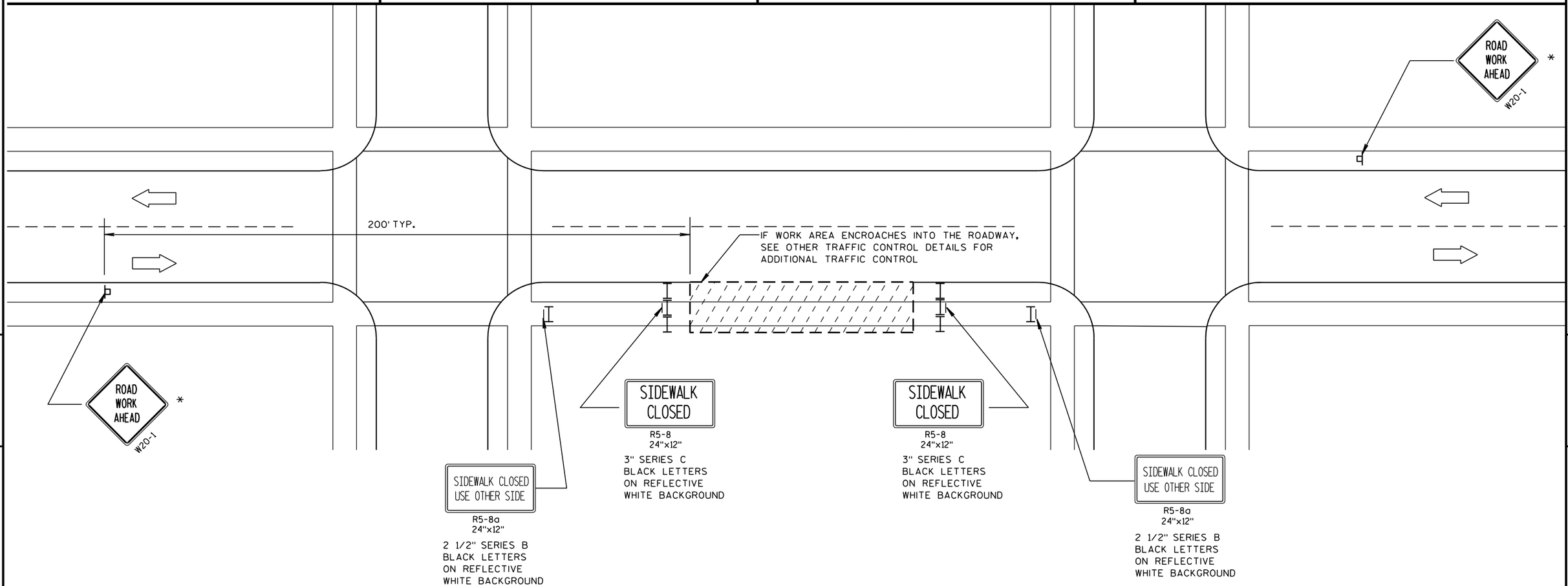
S.D.D. 15 C 33-1

WARNING OF LOCALIZED SIDEWALK WORK AREAS









LEGEND

- POST MOUNTED SIGN
- TYPE II BARRICADE WITH/WITHOUT SIGN (ALL WITH ONE WARNING LIGHT, TYPE A, LOW-INTENSITY FLASHING)
- WORK AREA
- DIRECTION OF TRAFFIC FLOW

GENERAL NOTES :

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS, 36"x36" SIGNS MAY BE USED INSTEAD OF 48"x48" SIGNS, IF APPROVED BY DISTRICT TRAFFIC UNIT.

THE EXACT LOCATION AND PLACEMENT OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS.

"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

* "ROAD WORK AHEAD" SIGNS ARE NOT REQUIRED IF THE SIDEWALK CLOSURE OCCURS WITHIN A LARGER WORK ZONE WHERE ADVANCE WARNING SIGNS ARE ALREADY PRESENT, OR IF THE WORK AREA AND EQUIPMENT ARE MORE THAN 2 FEET BEHIND THE CURB.

WARNING SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

TRAFFIC CONTROL, SIDEWALK CLOSURE

TRAFFIC CONTROL, SIDEWALK CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
5/23/2000 DATE
/S/ Chester J. [illegible]
CHIEF SIGNS AND MARK[illegible] ENGINEER
FHWA

6

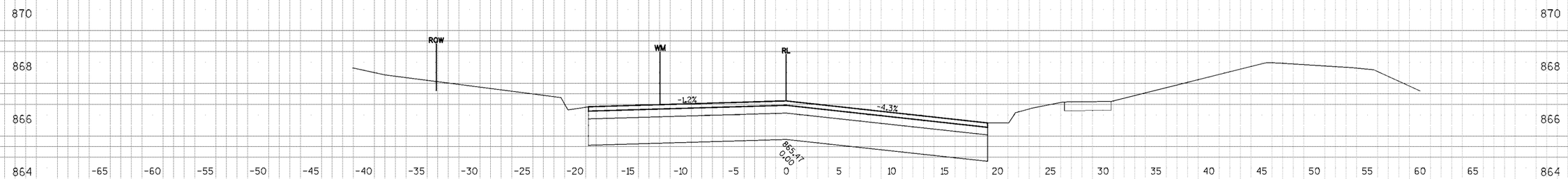
S.D.D. 15 D 30-1

STATION	Real Station	Distance	AREA (SF)						Incremental Vol (CY) (Unadjusted)						Cumulative Vol (CY)							
			Cut	Salvaged/Unusable Pavement Material	Fill	Marsh Exc	Rock Exc	EBS	Cut	Salvaged/Unusable Pavement Material	Fill	Marsh Exc	Rock Exc	EBS	Cut	Expanded Fill	Expanded Marsh Backfill	Expanded Rock	Expanded EBS Backfill	Reduced Marsh in Fill	Reduced EBS In Fill	Mass Ordinate
															1.00	1.25	1.50	1.10	1.30	0.60	0.80	
									Note 1	Note 2	Note 3				Note 1		Note 4		Note 5	Note 6	Note 7	Note 8
38+20	3820		41	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38+50	3850	30	40	29	0	0	0	0	45	28	0	0	0	0	45	0	0	0	0	0	0	16
39+00	3900	50	51	29	0	0	0	0	84	54	0	0	0	0	129	0	0	0	0	0	0	46
39+50	3950	50	56	29	0	0	0	0	99	54	0	0	0	0	228	0	0	0	0	0	0	92
40+00	4000	50	47	29	0	0	0	36	95	54	0	0	0	33	323	-33	0	0	43	0	27	167
40+50	4050	50	49	28	0	0	0	34	89	53	0	0	0	65	412	-98	0	0	128	0	79	268
41+00	4100	50	48	27	0	0	0	35	90	51	0	0	0	64	502	-163	0	0	211	0	130	371
41+50	4150	50	45	27	0	0	0	34	86	50	0	0	0	64	588	-226	0	0	294	0	181	471
42+00	4200	50	45	27	0	0	0	34	83	50	0	0	0	63	671	-289	0	0	376	0	232	567
42+50	4250	50	69	27	0	0	0	48	106	50	0	0	0	76	777	-365	0	0	475	0	292	699
43+00	4300	50	54	32	0	0	0	39	114	55	0	0	0	81	891	-446	0	0	580	0	357	839
43+50	4350	50	59	32	0	0	0	0	105	59	0	0	0	36	995	-482	0	0	627	0	386	920
43+55	4355	5	59	32	0	0	0	0	11	6	0	0	0	0	1006	-482	0	0	627	0	386	925
										0												
							Division 1 Subtotals		1006	563	0	0	0	482								

STATION	Real Station	Distance	AREA (SF)						Incremental Vol (CY) (Unadjusted)						Cumulative Vol (CY)							
			Cut	Salvaged/Unusable Pavement Material	Fill	Marsh Exc	Rock Exc	EBS	Cut	Salvaged/Unusable Pavement Material	Fill	Marsh Exc	Rock Exc	EBS	Cut	Expanded Fill	Expanded Marsh Backfill	Expanded Rock	Expanded EBS Backfill	Reduced Marsh in Fill	Reduced EBS In Fill	Mass Ordinate
															1.00	1.25	1.50	1.10	1.30	0.60	0.80	
									Note 1	Note 2	Note 3				Note 1		Note 4		Note 5	Note 6	Note 7	Note 8
43+55	4355		59	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
44+00	4400	45	59	32	0	0	0	0	98	53	0	0	0	0	98	0	0	0	0	0	0	45
44+50	4450	50	58	32	0	0	0	0	108	59	0	0	0	0	207	0	0	0	0	0	0	94
45+00	4500	50	56	32	0	0	0	0	106	59	0	0	0	0	312	0	0	0	0	0	0	140
45+50	4550	50	56	32	0	0	0	0	104	59	0	0	0	0	416	0	0	0	0	0	0	185
46+00	4600	50	56	32	0	0	0	0	104	59	0	0	0	0	520	0	0	0	0	0	0	229
46+50	4650	50	50	32	0	0	0	0	98	59	0	0	0	0	618	0	0	0	0	0	0	268
47+00	4700	50	51	32	0	0	0	0	94	59	0	0	0	0	711	0	0	0	0	0	0	303
47+50	4750	50	53	31	0	0	0	0	96	58	0	0	0	0	808	0	0	0	0	0	0	341
48+00	4800	50	55	31	0	0	0	38	100	57	0	0	0	36	908	-36	0	0	46	0	29	419
48+50	4850	50	56	31	0	0	0	38	103	57	0	0	0	71	1010	-107	0	0	139	0	85	535
49+00	4900	50	59	31	0	0	0	38	106	57	0	0	0	71	1117	-177	0	0	231	0	142	655
49+50	4950	50	62	32	0	0	0	73	112	58	0	0	0	103	1229	-281	0	0	365	0	224	812
50+00	5000	50	57	32	0	0	0	40	110	59	0	0	0	104	1339	-385	0	0	501	0	308	967
50+42	5050	42	60	31	0	0	0	39	91	49	0	0	0	61	1430	-446	0	0	579	0	357	1070
										0												
										0												
							Division 2 Subtotals		1430	806	0	0	0	446								

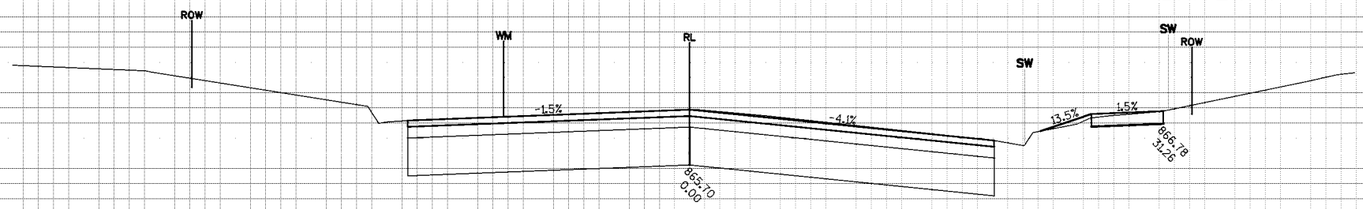
STATION	Real Station	Distance	AREA (SF)						Incremental Vol (CY) (Unadjusted)							Cumulative Vol (CY)								
			Cut	Salvaged/Unusable Pavement Material	Fill	Marsh Exc	Rock Exc	EBS	Cut	Salvaged/Unusable Pavement Material	Fill	Marsh Exc	Rock Exc	EBS	Cut	Expanded Fill	Expanded Marsh Backfill	Expanded Rock	Expanded EBS Backfill	Reduced Marsh in Fill	Reduced EBS In Fill	Mass Ordinate
															1.00	1.25	1.50	1.10	1.30	0.60	0.80	
									Note 1	Note 2	Note 3				Note 1		Note 4		Note 5	Note 6	Note 7	Note 8
51+75	5175		70.0	36.0	0.0	0.0	0.0	44.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
52+00	5200	25	78.0	36.0	0.0	0.0	0.0	43.6	69	33	0	0	0	41	69	-41	0	0	53	0	32	76
52+50	5250	50	78.0	36.0	0.0	0.0	0.0	43.7	144	67	0	0	0	81	213	-121	0	0	158	0	97	234
53+00	5300	50	83.0	36.0	0.0	0.0	0.0	43.8	149	67	0	0	0	81	362	-202	0	0	263	0	162	398
53+50	5350	50	70.0	37.0	0.0	0.0	0.0	44.5	142	68	0	0	0	82	504	-284	0	0	369	0	227	554
54+00	5400	50	69.0	37.0	0.0	0.0	0.0	44.5	129	69	0	0	0	82	632	-366	0	0	476	0	293	696
54+50	5450	50	72.0	37.0	0.0	0.0	0.0	44.6	131	69	0	0	0	83	763	-449	0	0	584	0	359	841
55+00	5500	50	74.0	37.0	0.0	0.0	0.0	0.0	135	69	0	0	0	41	898	-490	0	0	637	0	392	949
55+50	5550	50	73.0	37.0	0.0	0.0	0.0	0.0	136	69	0	0	0	0	1034	-490	0	0	637	0	392	1016
56+00	5600	50	70.0	37.0	0.0	0.0	0.0	0.0	132	69	0	0	0	0	1167	-490	0	0	637	0	392	1080
56+50	5650	50	70.0	36.0	0.0	0.0	0.0	0.0	130	68	0	0	0	0	1296	-490	0	0	637	0	392	1142
57+00	5700	50	70.0	36.0	0.0	0.0	0.0	0.0	130	67	0	0	0	0	1426	-490	0	0	637	0	392	1205
57+50	5750	50	71.0	37.0	0.0	0.0	0.0	0.0	131	68	0	0	0	0	1556	-490	0	0	637	0	392	1268
58+00	5800	50	70.0	37.0	0.0	0.0	0.0	44.4	131	69	0	0	0	41	1687	-531	0	0	691	0	425	1371
58+50	5850	50	68.0	37.0	0.0	0.0	0.0	44.3	128	69	0	0	0	82	1815	-614	0	0	798	0	491	1513
59+00	5900	50	69.0	37.0	0.0	0.0	0.0	44.9	127	69	0	0	0	83	1942	-696	0	0	905	0	557	1654
59+50	5950	50	77.0	37.0	0.0	0.0	0.0	44.7	135	69	0	0	0	83	2077	-779	0	0	1013	0	623	1803
60+00	6000	50	72.0	37.0	0.0	0.0	0.0	44.1	138	69	0	0	0	82	2215	-861	0	0	1120	0	689	1955
60+50	6050	50	74.0	37.0	0.0	0.0	0.0	44.2	135	69	0	0	0	82	2350	-943	0	0	1226	0	754	2103
61+00	6100	50	100.0	37.0	0.0	0.0	0.0	61.2	161	69	0	0	0	98	2511	-1041	0	0	1353	0	832	2293
61+50	6150	50	75.0	37.0	0.0	0.0	0.0	43.9	162	69	0	0	0	97	2673	-1138	0	0	1479	0	910	2484
62+00	6200	50	76.0	36.0	6.8	0.0	0.0	44.0	140	68	6	0	0	81	2813	-1211	0	0	1585	0	975	2630
62+50	6250	50	80.0	36.0	6.8	0.0	0.0	44.4	144	67	13	0	0	82	2957	-1278	0	0	1691	0	1041	2774
63+00	6300	50	83.0	36.0	6.8	0.0	0.0	43.6	151	67	13	0	0	82	3108	-1344	0	0	1797	0	1106	2924
63+50	6350	50	88.0	36.0	6.8	0.0	0.0	44.8	158	67	13	0	0	82	3267	-1410	0	0	1904	0	1172	3082
64+00	6400	50	91.0	36.0	6.8	0.0	0.0	44.6	166	67	13	0	0	83	3432	-1477	0	0	2011	0	1238	3248
64+50	6450	50	84.0	36.0	6.8	0.0	0.0	43.8	162	67	13	0	0	82	3594	-1543	0	0	2118	0	1303	3410
65+00	6500	50	84.0	36.0	6.8	0.0	0.0	44.6	156	67	13	0	0	82	3750	-1609	0	0	2224	0	1369	3565
65+50	6550	50	88.0	36.0	6.8	0.0	0.0	44.5	159	67	13	0	0	83	3909	-1676	0	0	2331	0	1435	3724
66+00	6600	50	87.0	36.0	6.8	0.0	0.0	44.5	162	67	13	0	0	82	4071	-1743	0	0	2438	0	1501	3886
66+50	6650	50	88.0	36.0	6.8	0.0	0.0	44.0	162	67	13	0	0	82	4233	-1809	0	0	2545	0	1566	4048
67+00	6700	50	85.0	36.0	6.8	0.0	0.0	43.9	160	67	13	0	0	81	4394	-1875	0	0	2651	0	1631	4207
67+50	6750	50	80.0	36.0	6.8	0.0	0.0	43.9	153	67	13	0	0	81	4546	-1941	0	0	2756	0	1696	4359
68+00	6800	50	83.0	36.0	6.8	0.0	0.0	43.8	151	67	13	0	0	81	4697	-2006	0	0	2862	0	1761	4509
68+50	6850	50	82.0	36.0	6.8	0.0	0.0	44.3	153	67	13	0	0	82	4850	-2072	0	0	2968	0	1826	4661
69+00	6900	50	79.0	38.0	0.0	0.0	0.0	46.0	149	69	6	0	0	84	4999	-2148	0	0	3077	0	1893	4817
69+50	6950	50	72.0	40.0	0.0	0.0	0.0	0.0	140	72	0	0	0	43	5139	-2191	0	0	3132	0	1927	4928
70+00	7000	50	75.0	41.0	0.0	0.0	0.0	0.0	136	75	0	0	0	0	5275	-2191	0	0	3132	0	1927	4989
70+50	7050	50	75.0	40.0	0.0	0.0	0.0	0.0	139	75	0	0	0	0	5414	-2191	0	0	3132	0	1927	5053
71+00	7100	50	78.0	40.0	0.0	0.0	0.0	0.0	142	74	0	0	0	0	5556	-2191	0	0	3132	0	1927	5120
71+50	7150	50	80.0	40.0	0.0	0.0	0.0	0.0	146	74	0	0	0	0	5702	-2191	0	0	3132	0	1927	5192
72+00	7200	50	79.0	40.0	0.0	0.0	0.0	0.0	147	74	0	0	0	0	5849	-2191	0	0	3132	0	1927	5266
72+50	7250	50	77.0	40.0	0.0	0.0	0.0	48.4	144	74	0	0	0	45	5994	-2235	0	0	3190	0	1963	5381
73+00	7300	50	77.0	40.0	0.0	0.0	0.0	48.4	143	74	0	0	0	90	6136	-2325	0	0	3307	0	2035	5539
73+50	7350	50	75.0	40.0	0.0	0.0	0.0	48.3	141	74	0	0	0	90	6277	-2414	0	0	3423	0	2107	5695
73+87	7387	37	77.0	40.0	0.0	0.0	0.0	48.3	104	55	0	0	0	66	6381	-2481	0	0	3509	0	2159	5810
								0.0														
							0															
							Division 3 Subtotals		6381	3051	175	0	0	2699								

14+00

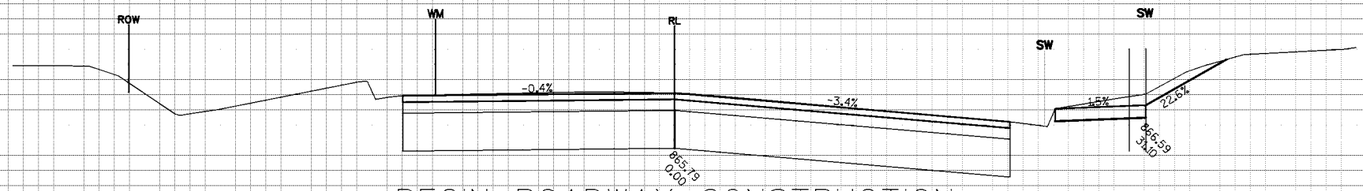


13+50

DRIVEWAY



13+34



BEGIN ROADWAY CONSTRUCTION

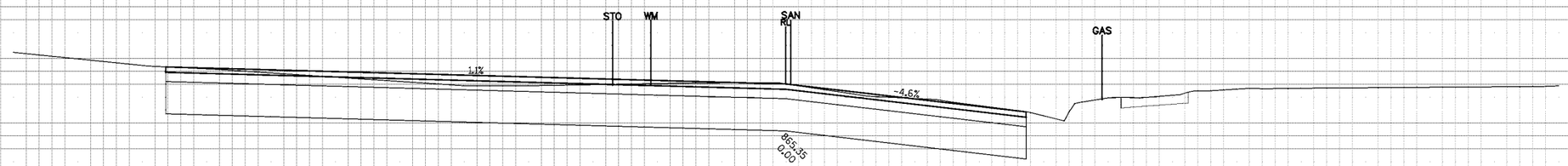
12+83

PROJECT NO: 2718-00-74	SUMMIT AVENUE	COUNTY: WAUKESHA	CROSS SECTIONS:	SHEET 132	E

15+00

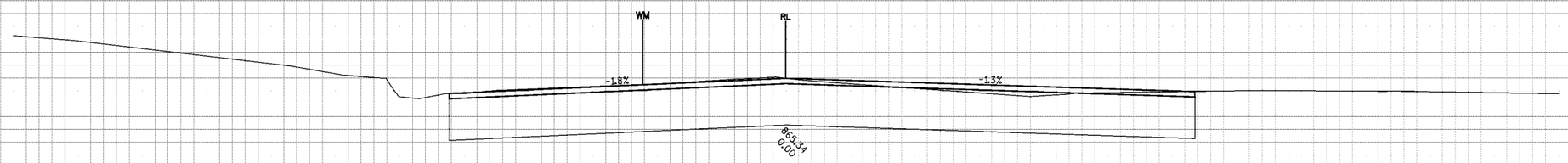
14+86

CROSS STREET

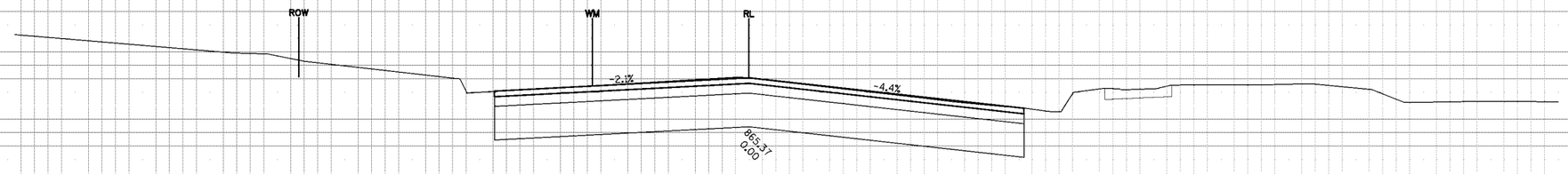


14+67

CROSS STREET

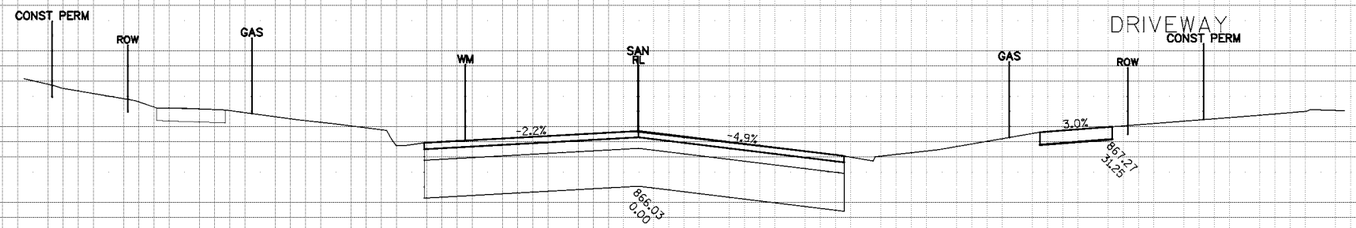


14+50

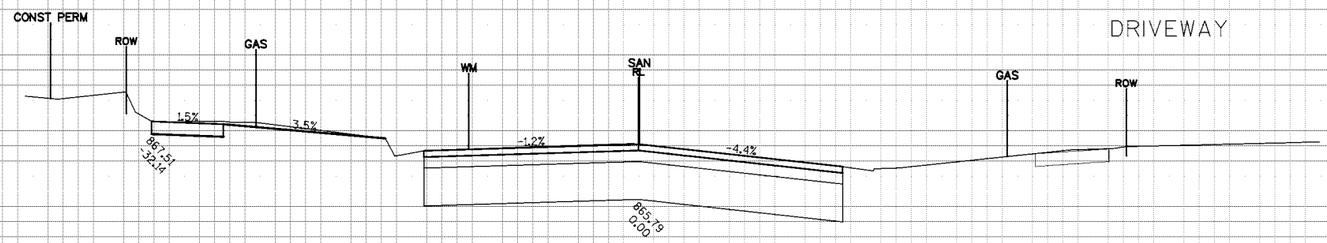


PROJECT NO: 2718-00-74	SUMMIT AVENUE	COUNTY: WAUKESHA	CROSS SECTIONS:	SHEET 133	E

17+00

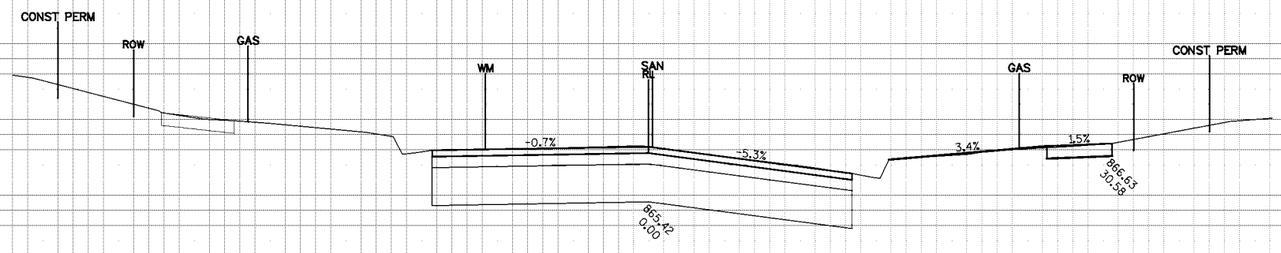


16+50



16+00

15+50



9

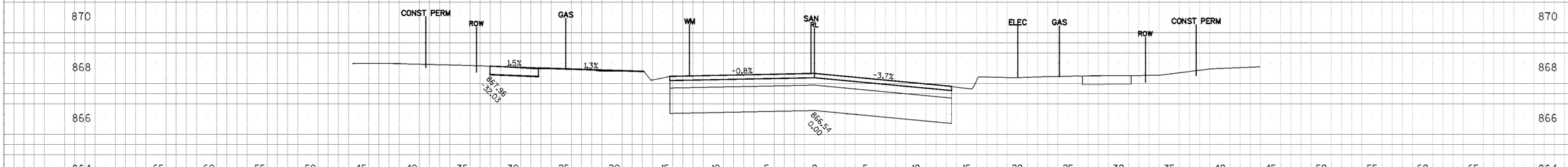
9

PROJECT NO: 2718-00-74	SUMMIT AVENUE	COUNTY: WAUKESHA	CROSS SECTIONS:	SHEET 134	E

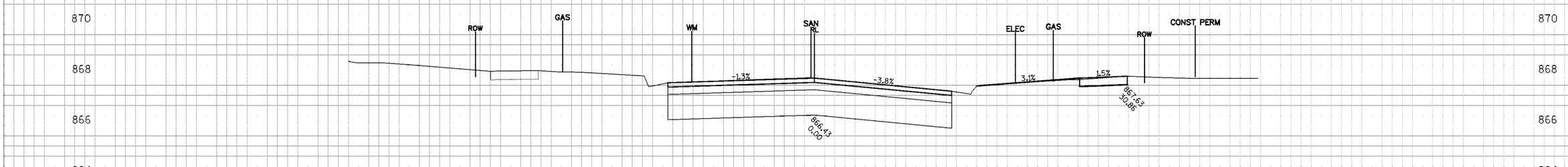
FILE NAME : G:\C3D\4792219\DWG\Z-085-125-SUMMIT AVENUE-CROSS SECTIONS.DWG PLOT DATE : 1/31/2014 2:54 PM PLOT BY : KLEMM, DAVID PLOT NAME : PLOT SCALE : ----

WISDOT/CADDS SHEET 21

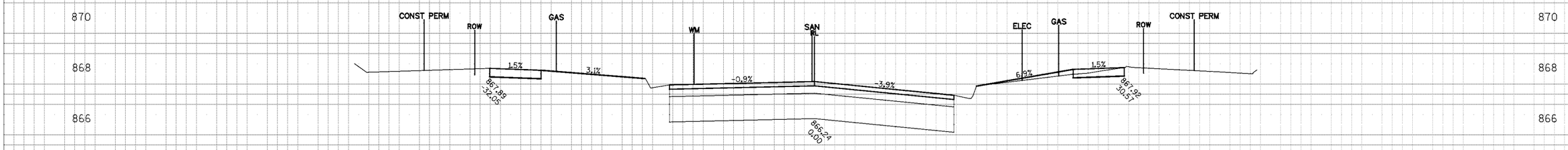
19+00



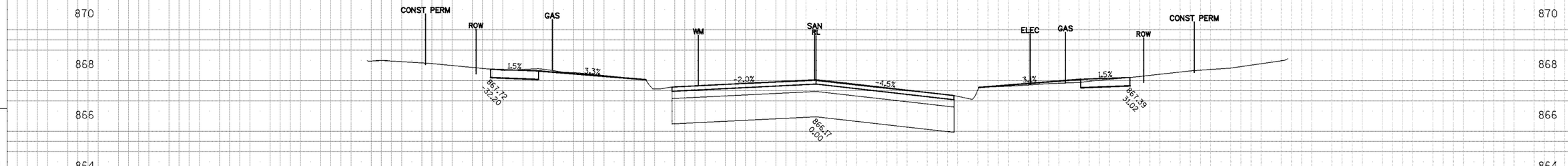
18+50



18+00



17+50

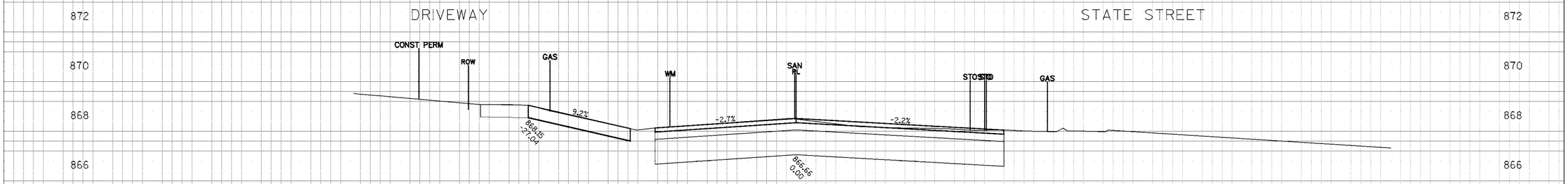


9

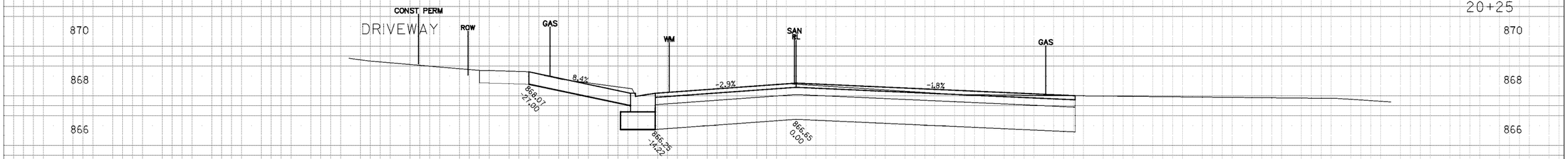
9

PROJECT NO: 2718-00-74	SUMMIT AVENUE	COUNTY: WAUKESHA	CROSS SECTIONS:	SHEET 135	E

20+38

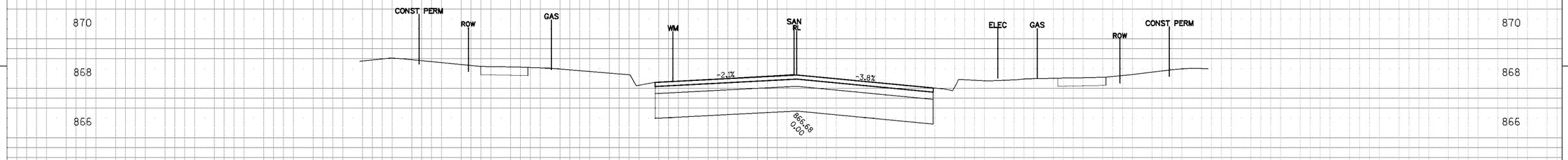


20+25



20+00

19+50

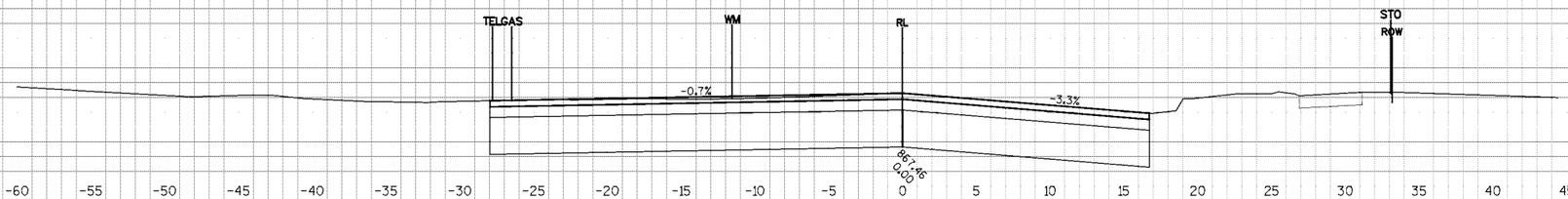


9

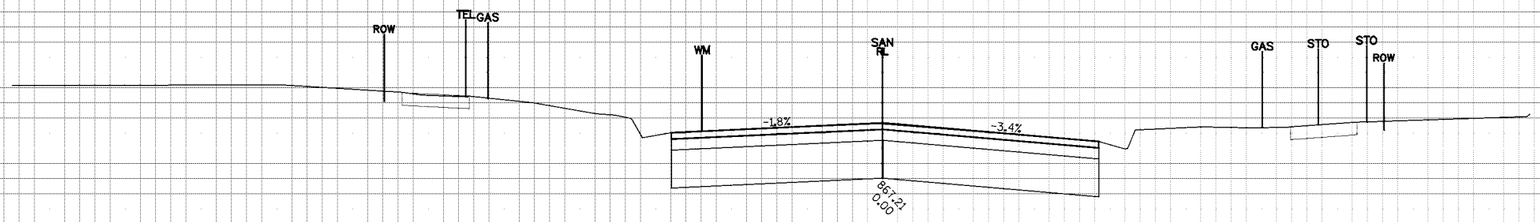
9

PROJECT NO: 2718-00-74	SUMMIT AVENUE	COUNTY: WAUKESHA	CROSS SECTIONS:	SHEET 136	E

22+00

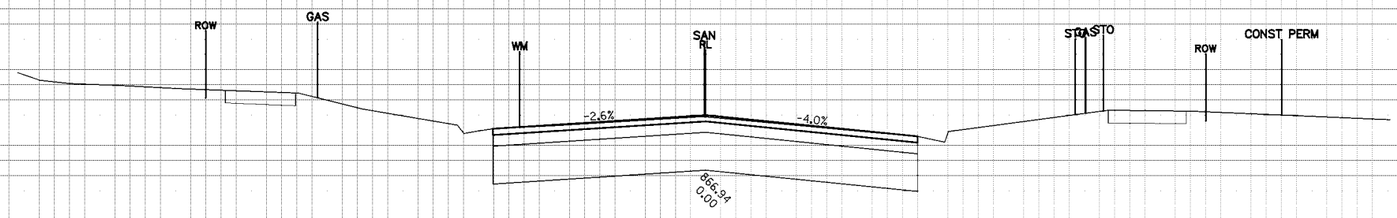


21+50



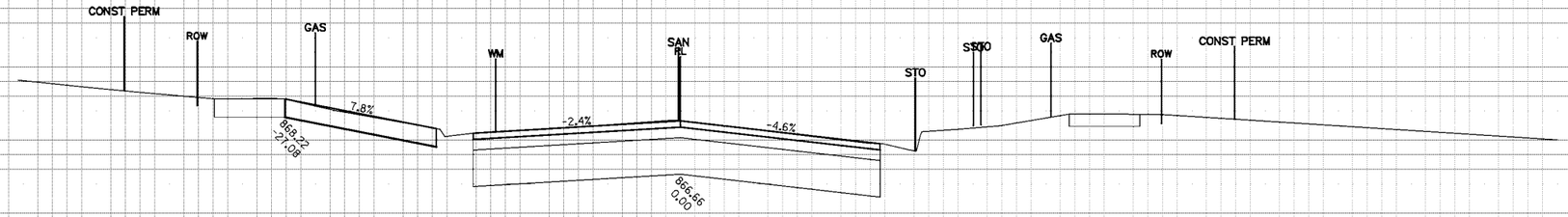
21+00

DRIVEWAY



20+50

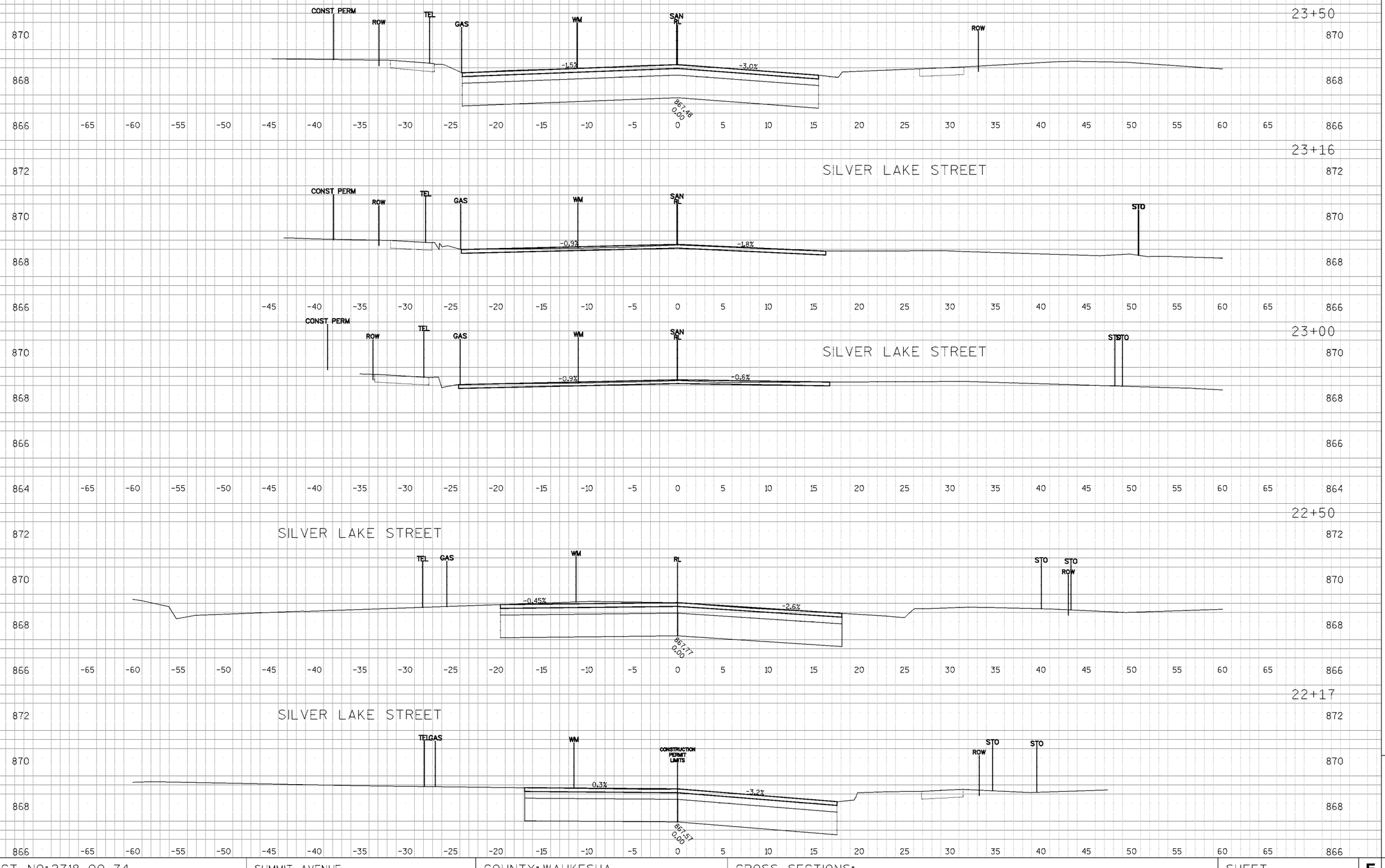
DRIVEWAY



9

9

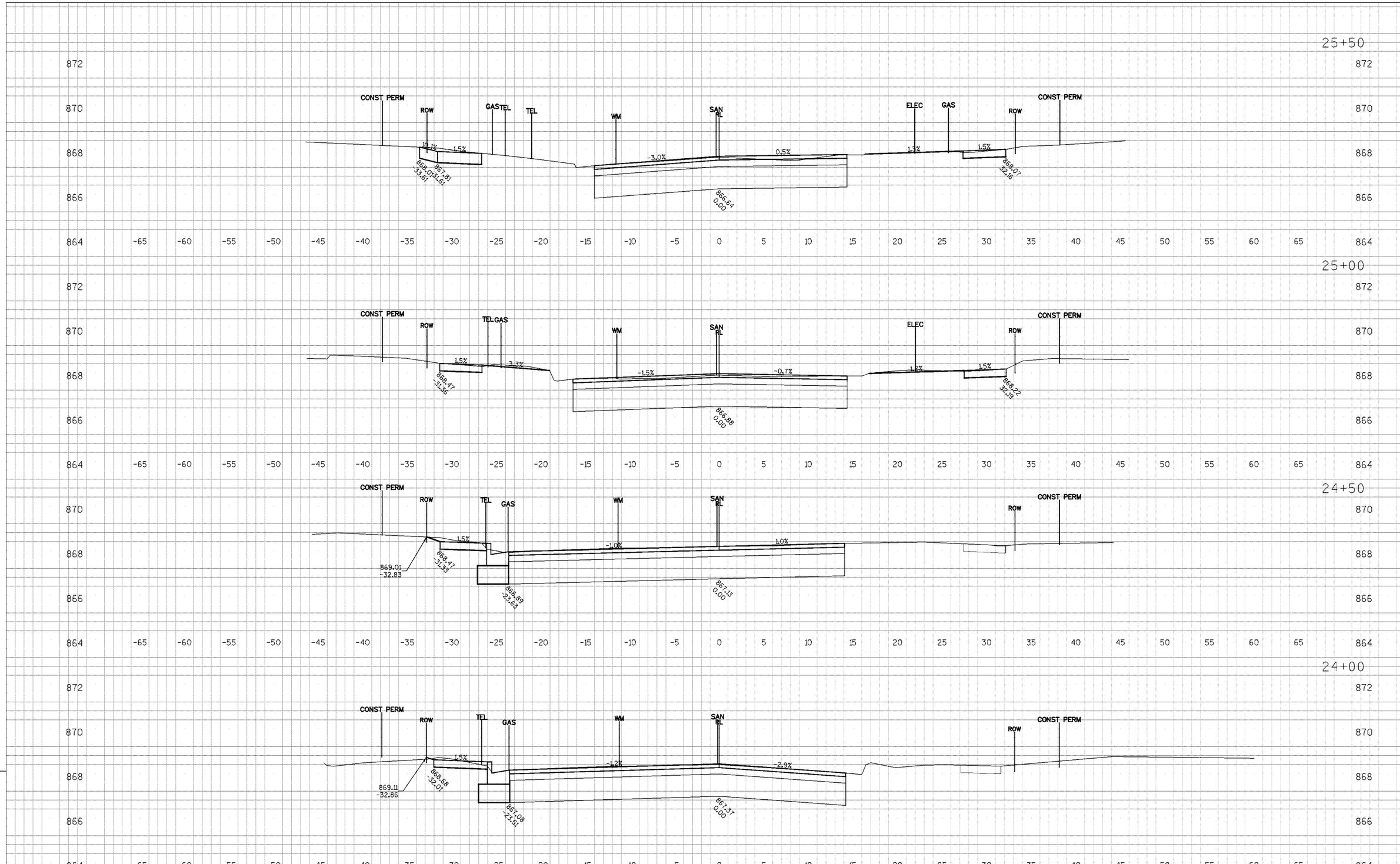
PROJECT NO: 2718-00-74	SUMMIT AVENUE	COUNTY: WAUKESHA	CROSS SECTIONS:	SHEET 137	E



9

9

PROJECT NO: 2718-00-74	SUMMIT AVENUE	COUNTY: WAUKESHA	CROSS SECTIONS:	SHEET 138	E



9

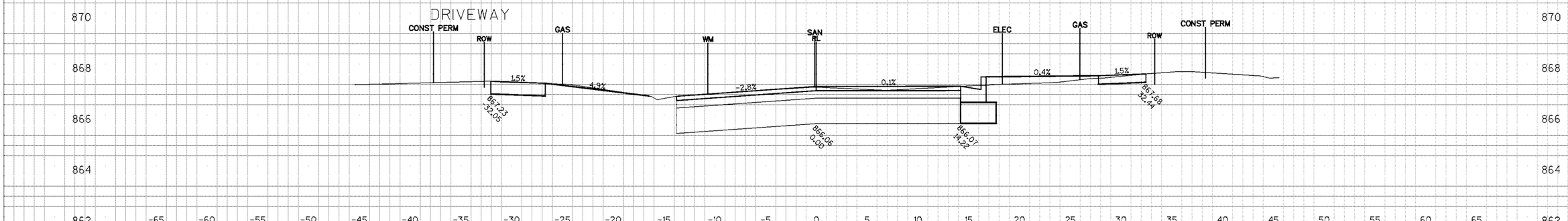
9

PROJECT NO:2718-00-74	SUMMIT AVENUE	COUNTY:WAUKESHA	CROSS SECTIONS:	SHEET 139	E

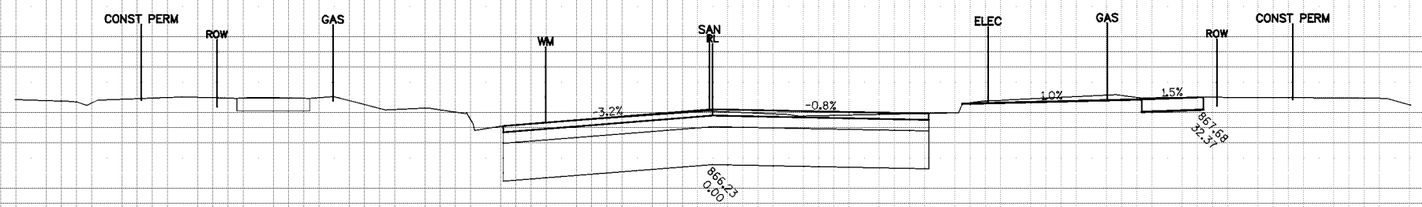
FILE NAME : G:\C3D\4792219\DWG\Z-085-125-SUMMIT AVENUE-CROSS SECTIONS.DWG PLOT DATE : 1/31/2014 2:55 PM PLOT BY : KLEMM, DAVID PLOT NAME : PLOT SCALE : ----

WISDOT/CADDS SHEET 21

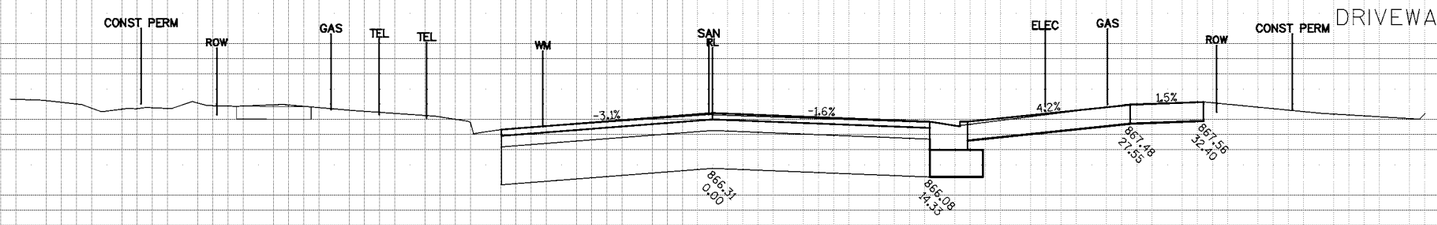
27+00



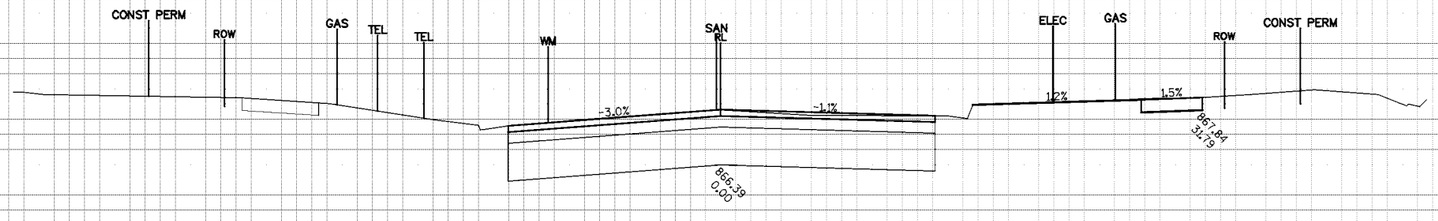
26+50



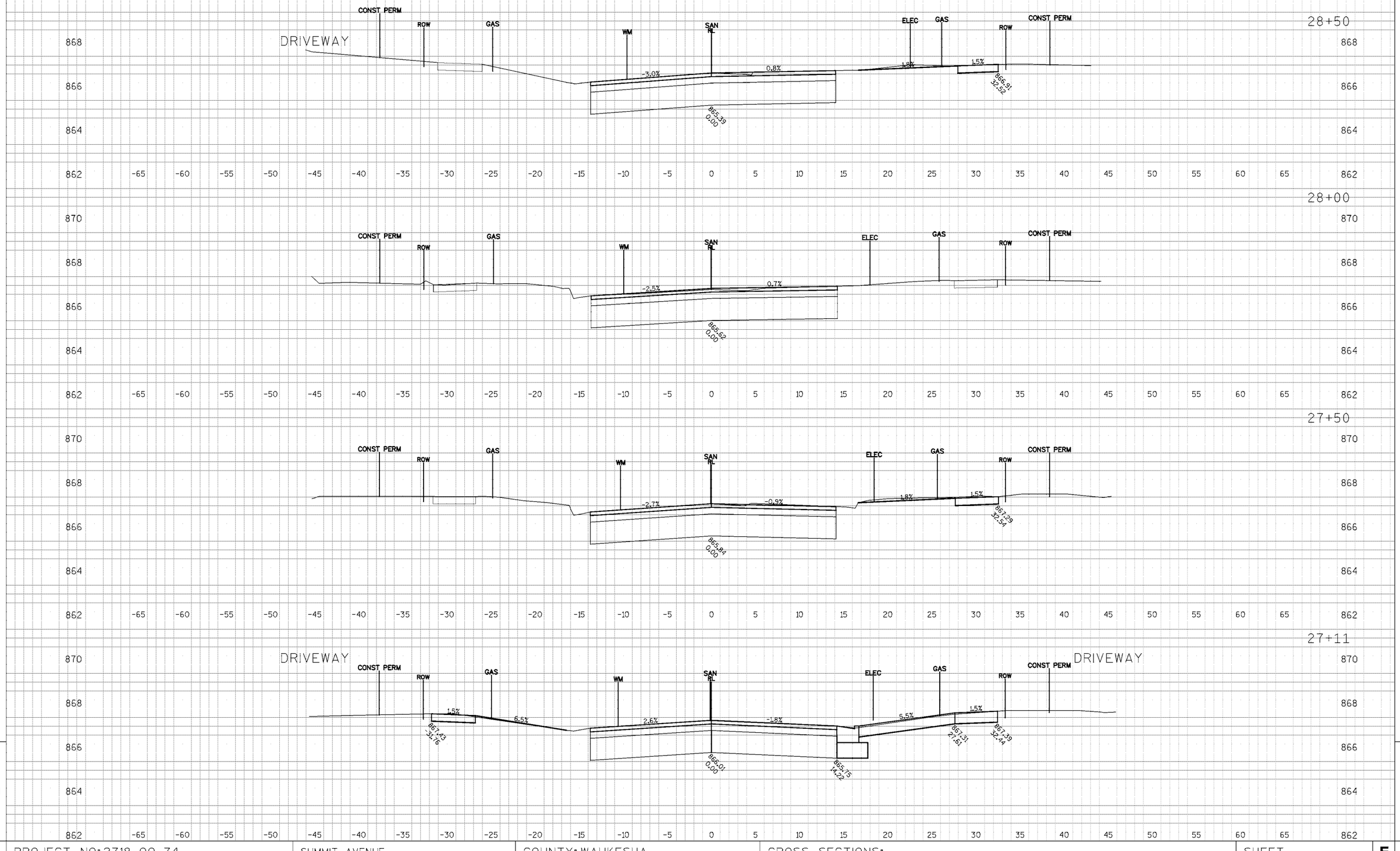
26+25



26+00



PROJECT NO: 2718-00-74	SUMMIT AVENUE	COUNTY: WAUKESHA	CROSS SECTIONS:	SHEET 140 E



9

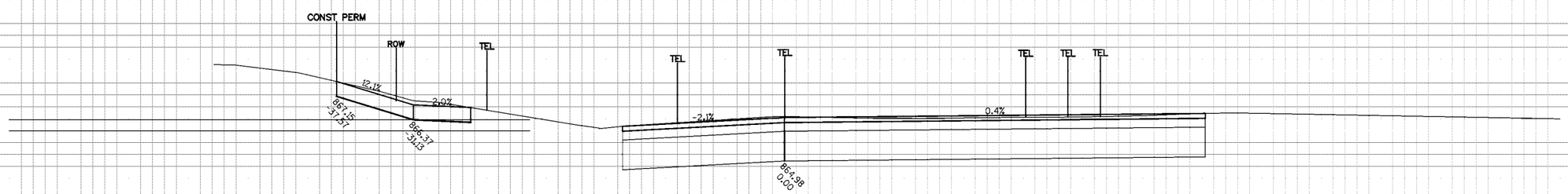
9

PROJECT NO: 2718-00-74	SUMMIT AVENUE	COUNTY: WAUKESHA	CROSS SECTIONS:	SHEET 141	E

29+32

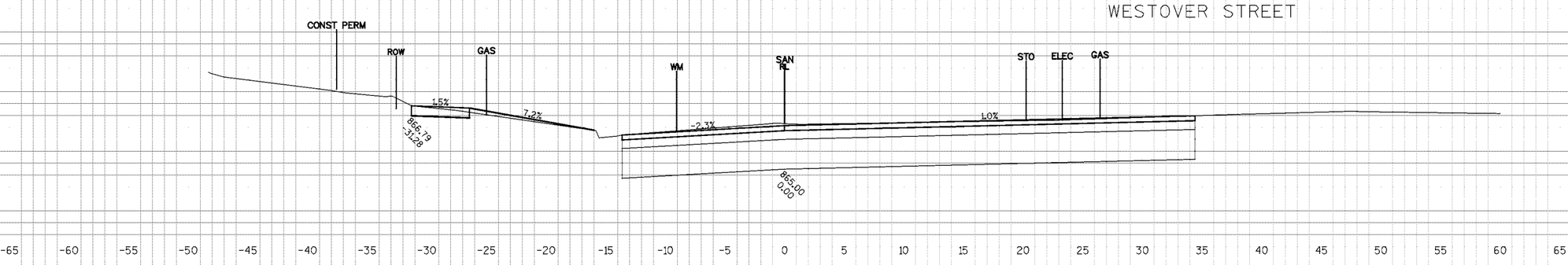
DRIVEWAY

WESTOVER STREET

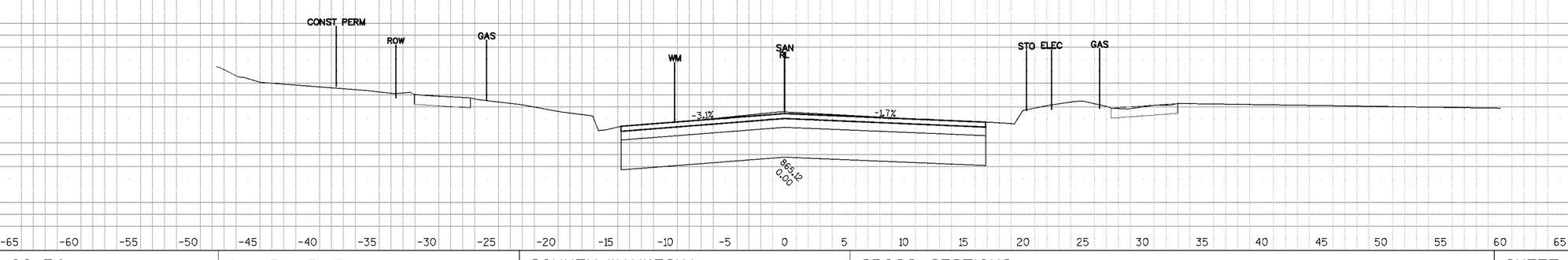


29+21

WESTOVER STREET



29+00

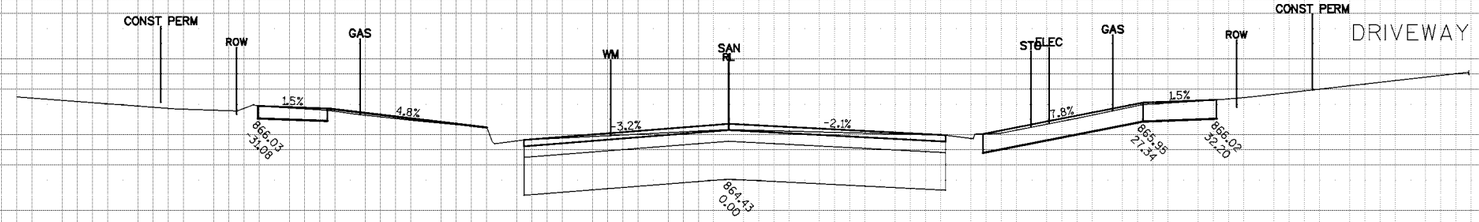


9

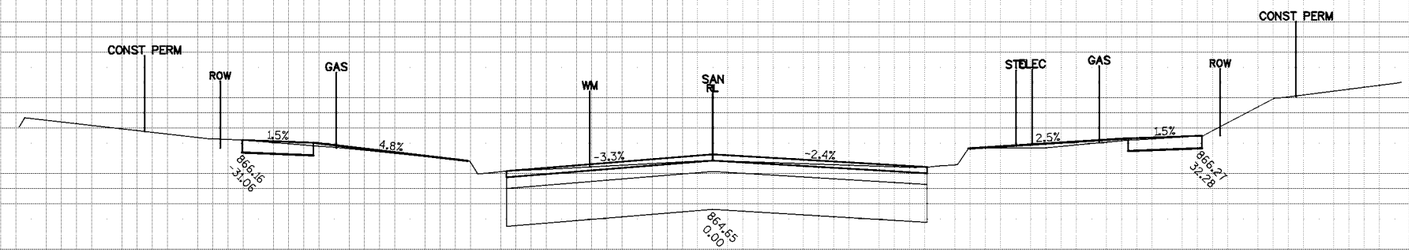
9

PROJECT NO: 2718-00-74	SUMMIT AVENUE	COUNTY: WAUKESHA	CROSS SECTIONS:	SHEET 142	E

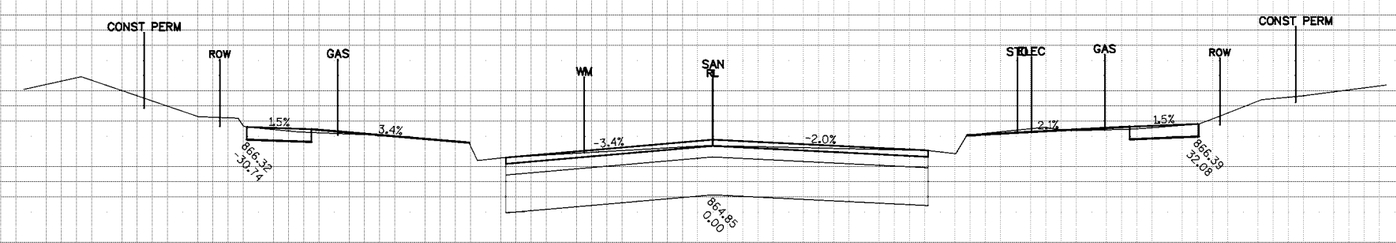
30+94



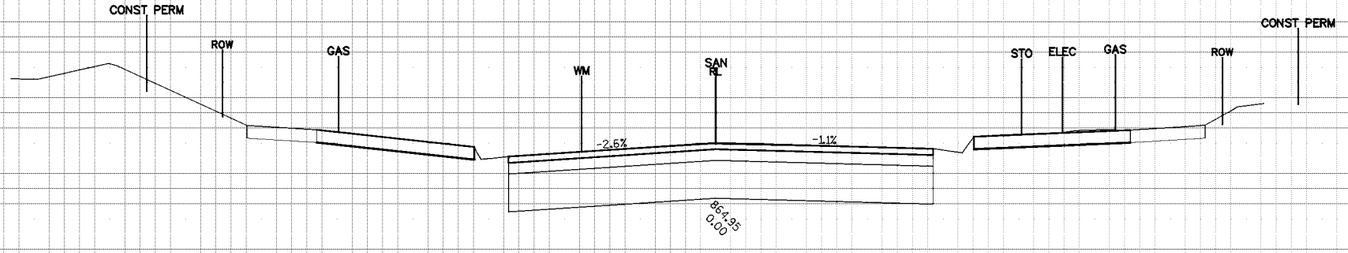
30+50



30+00



29+50

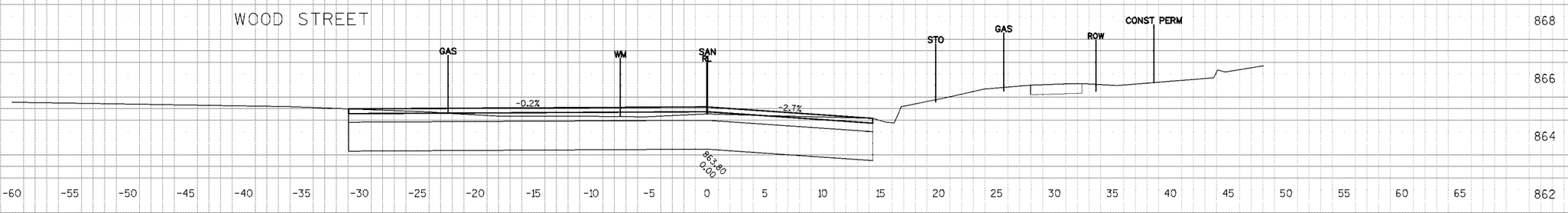


9

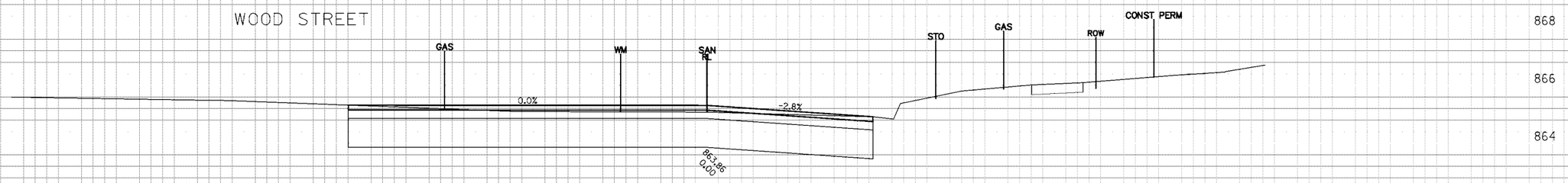
9

PROJECT NO: 2718-00-74	SUMMIT AVENUE	COUNTY: WAUKESHA	CROSS SECTIONS:	SHEET 143	E

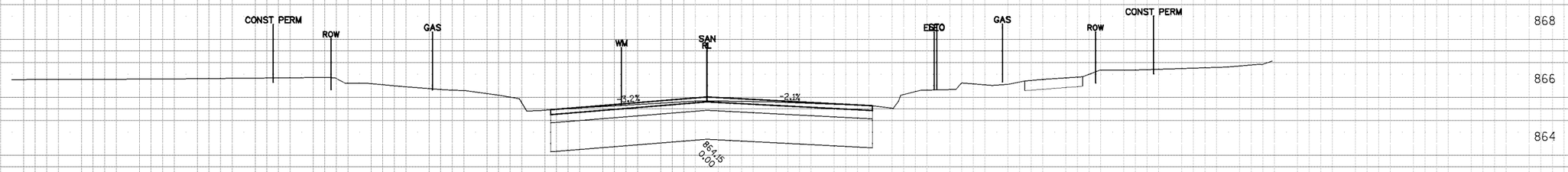
32+00



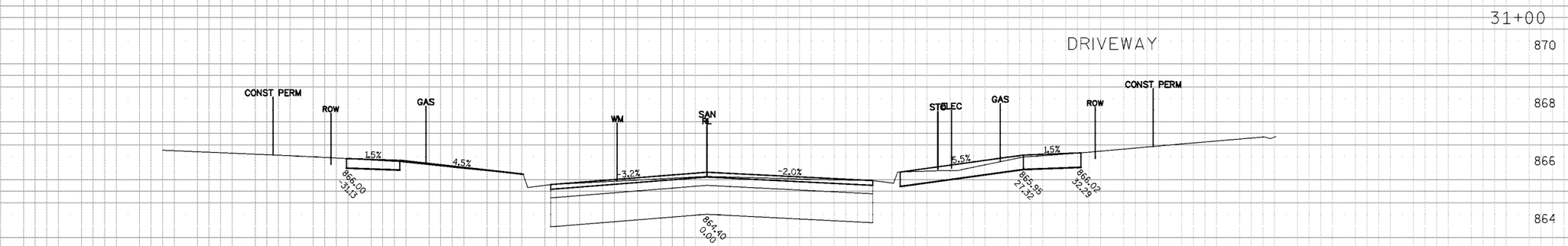
31+92



31+50



31+00



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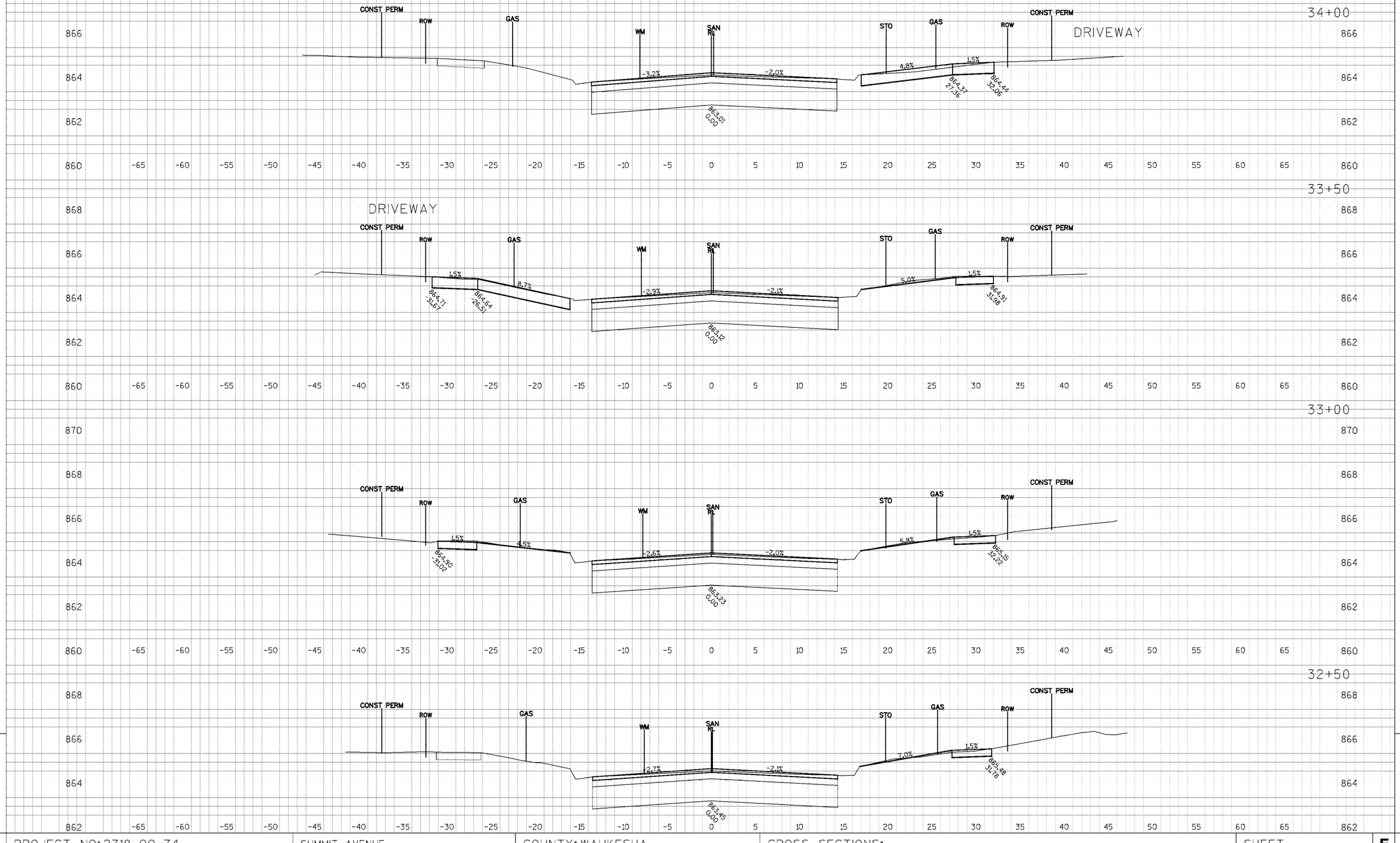
PROJECT NO: 2718-00-74	SUMMIT AVENUE	COUNTY: WAUKESHA	CROSS SECTIONS:	SHEET 144	E



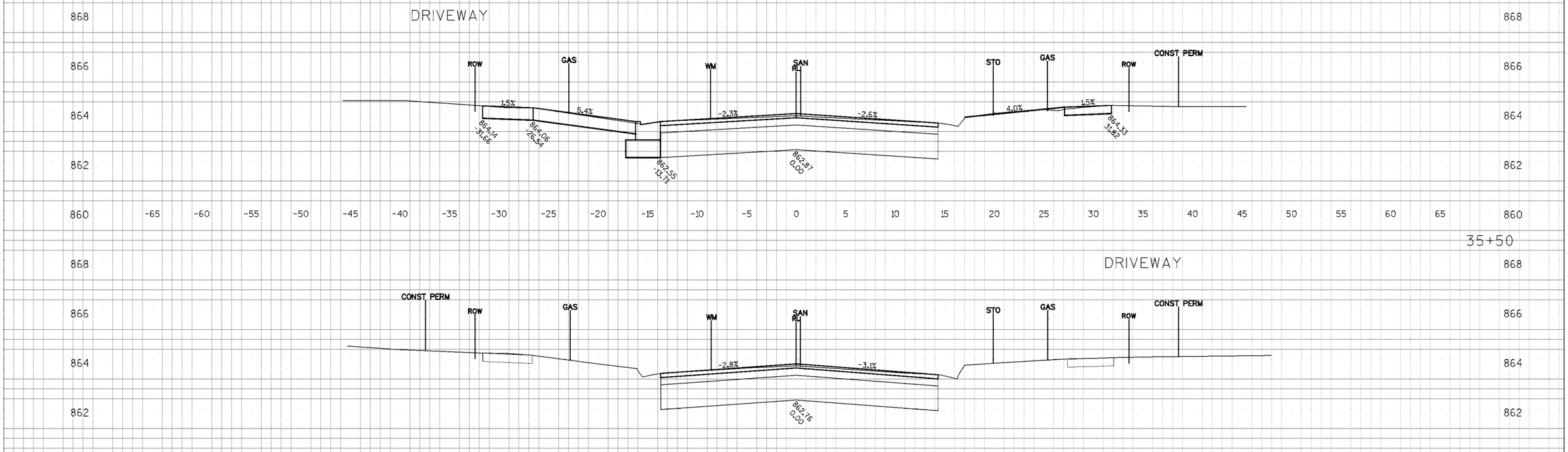
9

9

PROJECT NO: 2718-00-74	SUMMIT AVENUE	COUNTY: WAUKESHA	CROSS SECTIONS:	SHEET 145	E

FILE NAME : G:\C3D\4792219\DWG\Z-085-125-SUMMIT AVENUE-CROSS SECTIONS.DWG PLOT DATE : 1/31/2014 2:57 PM PLOT BY : KLEMM, DAVID PLOT NAME : PLOT SCALE : ----

35+79



35+50

35+00

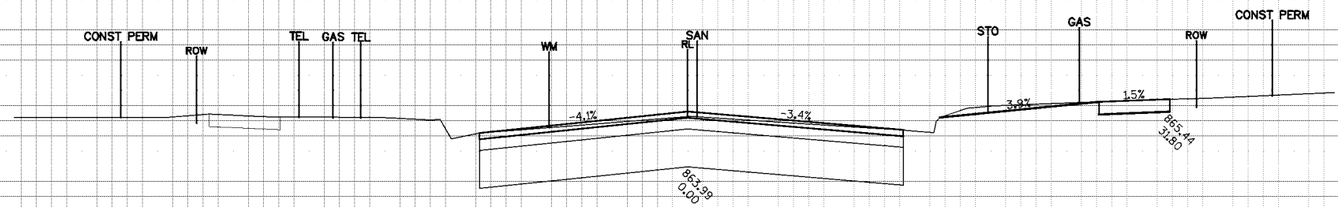
34+50

9

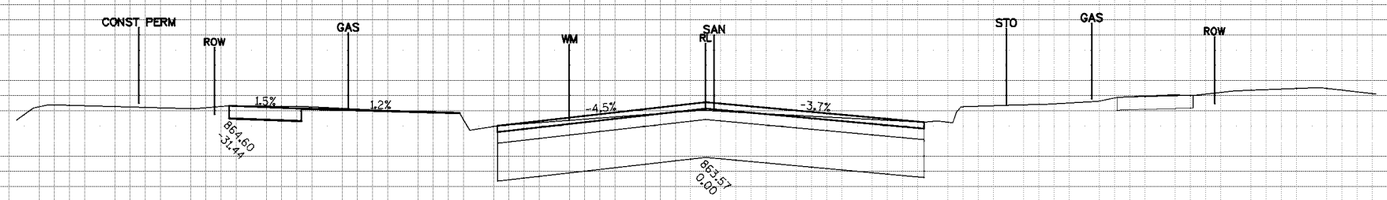
9

PROJECT NO: 2718-00-74	SUMMIT AVENUE	COUNTY: WAUKESHA	CROSS SECTIONS:	SHEET 146	E

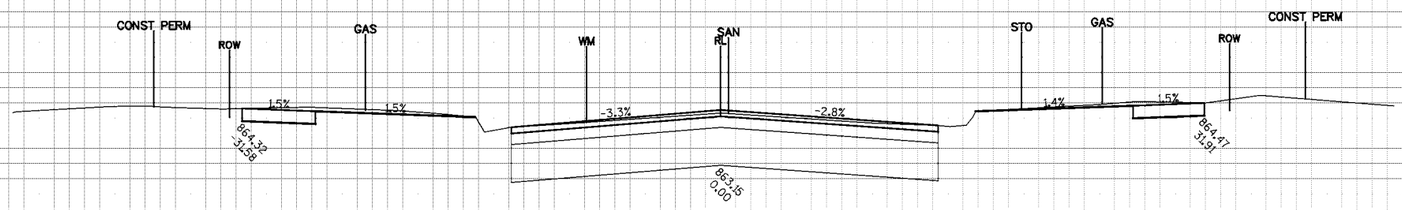
37+50



37+00

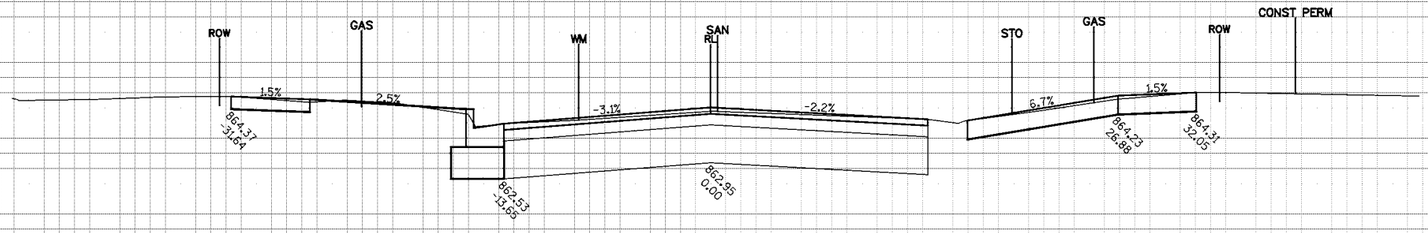


36+50



36+00

DRIVEWAY

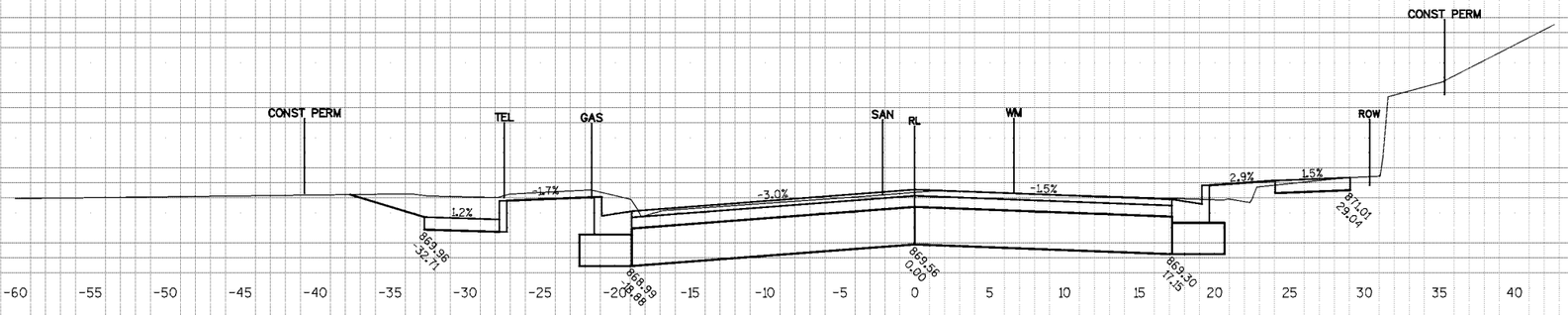


9

9

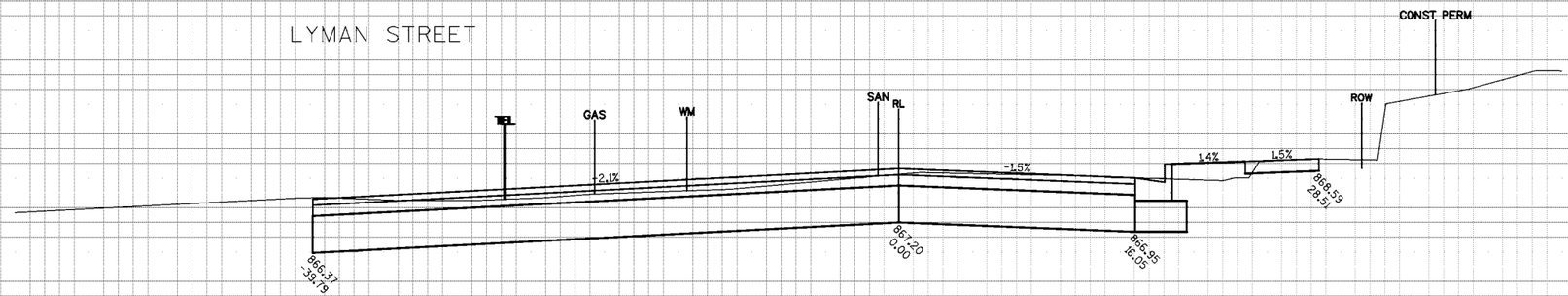
PROJECT NO: 2718-00-74	SUMMIT AVENUE	COUNTY: WAUKESHA	CROSS SECTIONS:	SHEET 147	E

39+50



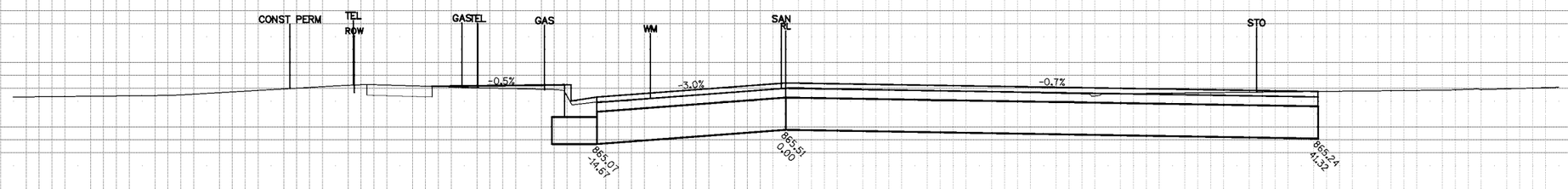
39+00

LYMAN STREET



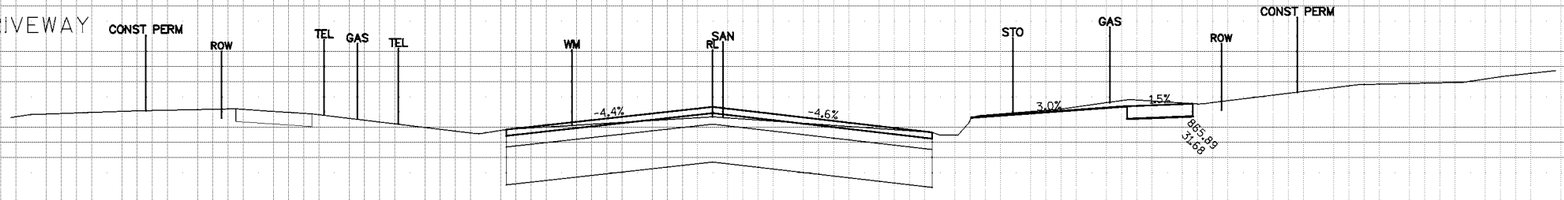
38+50

GEORGE STREET



38+00

DRIVEWAY

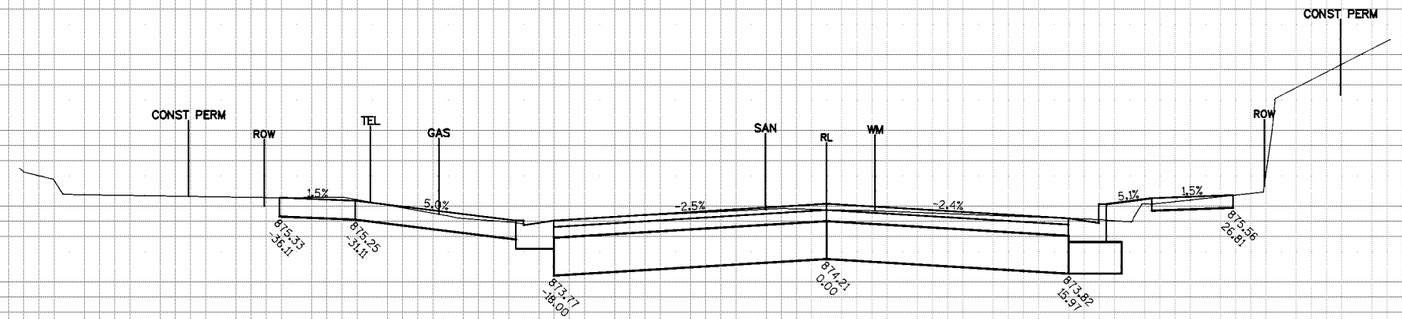


PROJECT NO: 2718-00-74	SUMMIT AVENUE	COUNTY: WAUKESHA	CROSS SECTIONS:	SHEET 148 E

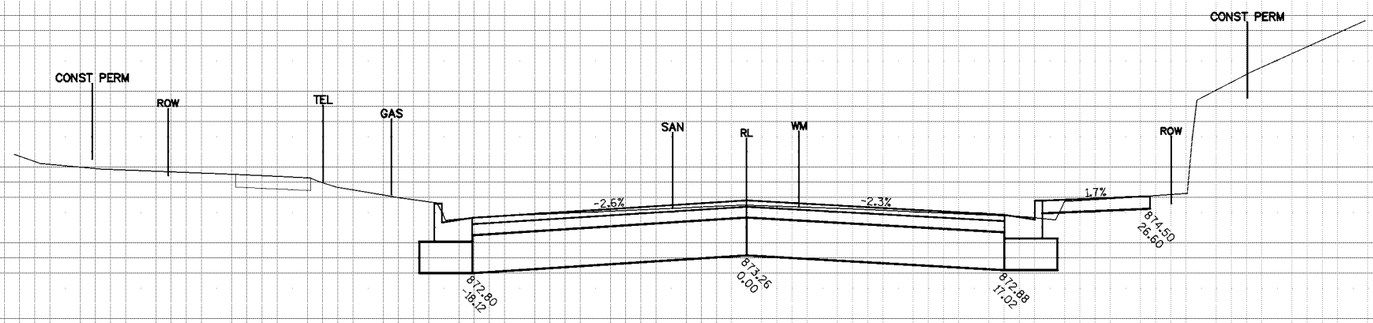
FILE NAME : G:\C3D\4792219\DWG\Z-085-125-SUMMIT AVENUE-CROSS SECTIONS.DWG PLOT DATE : 1/31/2014 2:58 PM PLOT BY : KLEMM, DAVID PLOT NAME : PLOT SCALE : ----

WISDOT/CADDS SHEET 21

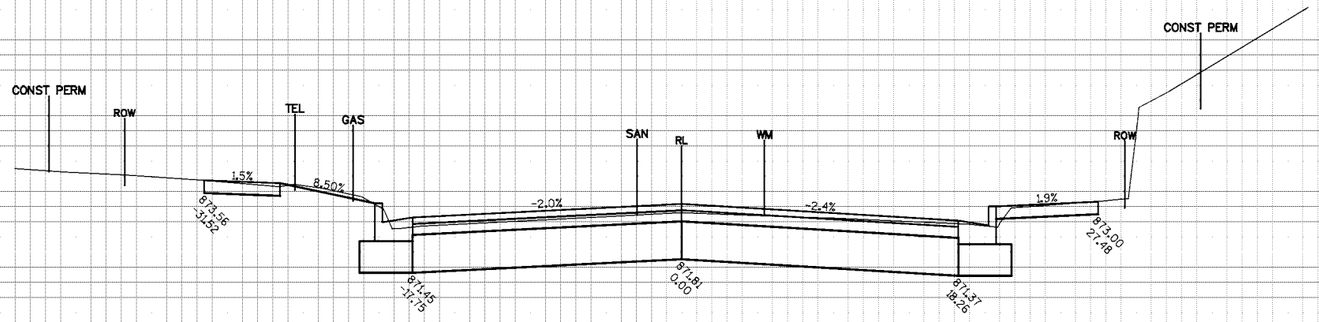
41+00



40+50

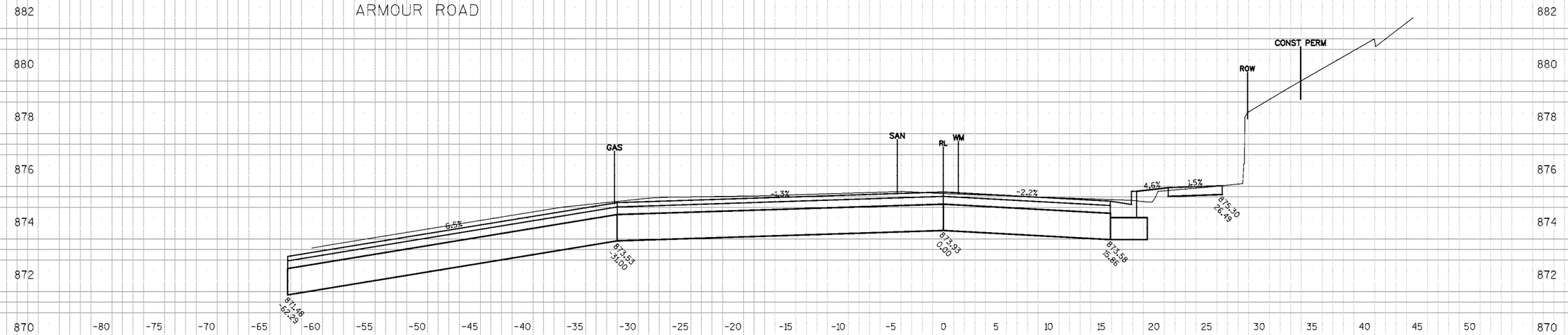


40+00

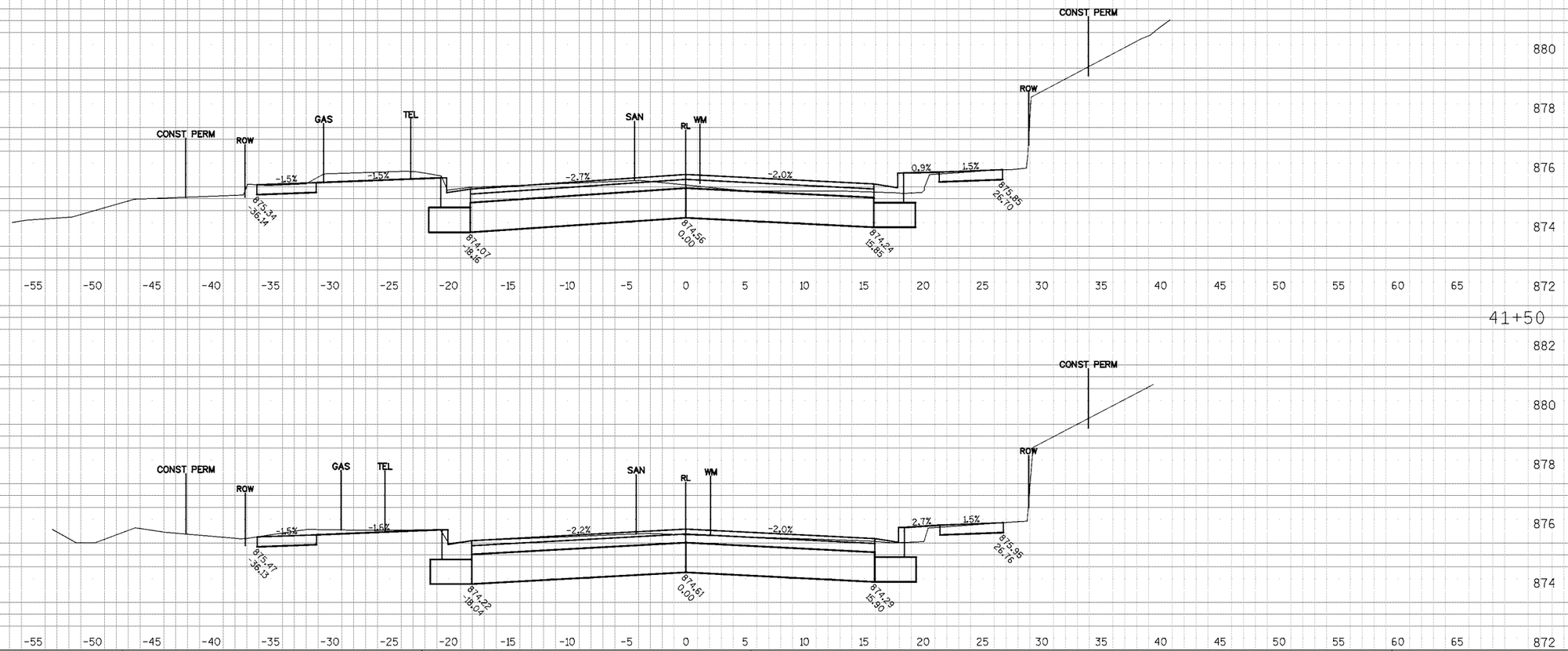


PROJECT NO:2718-00-74	SUMMIT AVENUE	COUNTY:WAUKESHA	CROSS SECTIONS:	SHEET 149 E

42+50



42+00



41+50

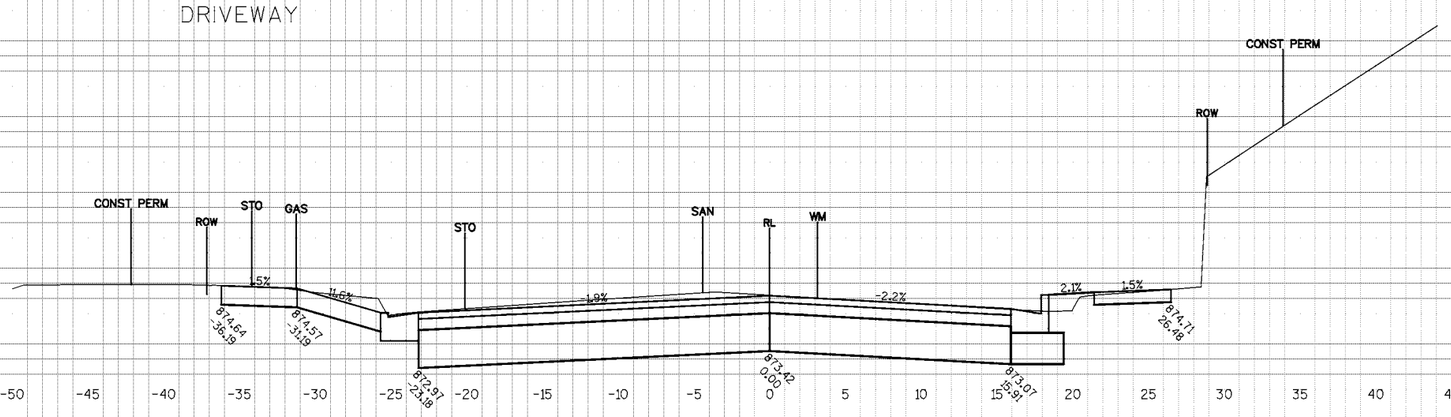
PROJECT NO: 2718-00-74	SUMMIT AVENUE	COUNTY: WAUKESHA	CROSS SECTIONS:	SHEET 150	E

FILE NAME : G:\C3D\4792219\DWG\Z-085-125-SUMMIT AVENUE-CROSS SECTIONS.DWG PLOT DATE : 1/31/2014 2:58 PM PLOT BY : KLEMM, DAVID PLOT NAME : PLOT SCALE : ----

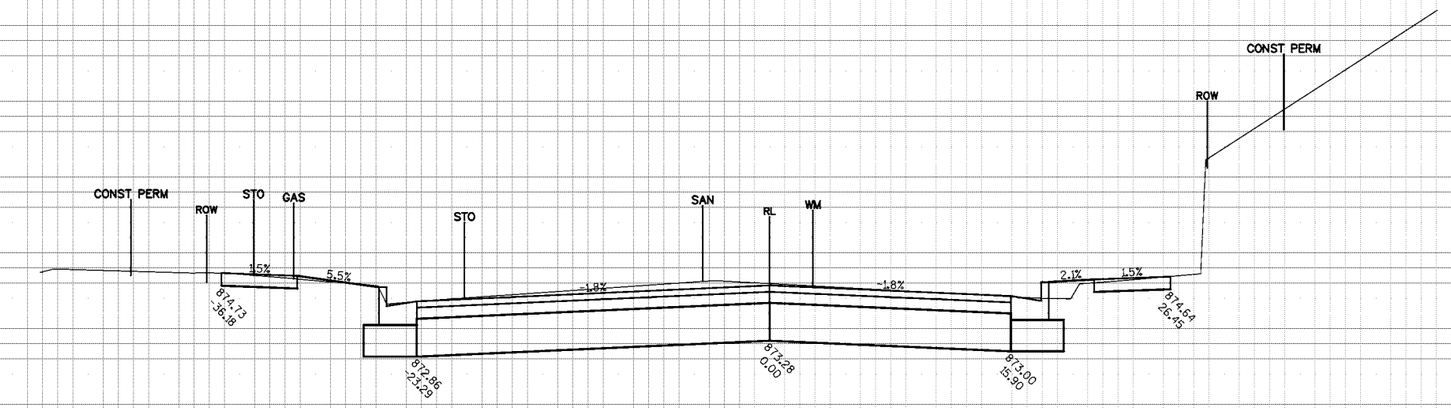
WISDOT/CADDS SHEET 21

43+72

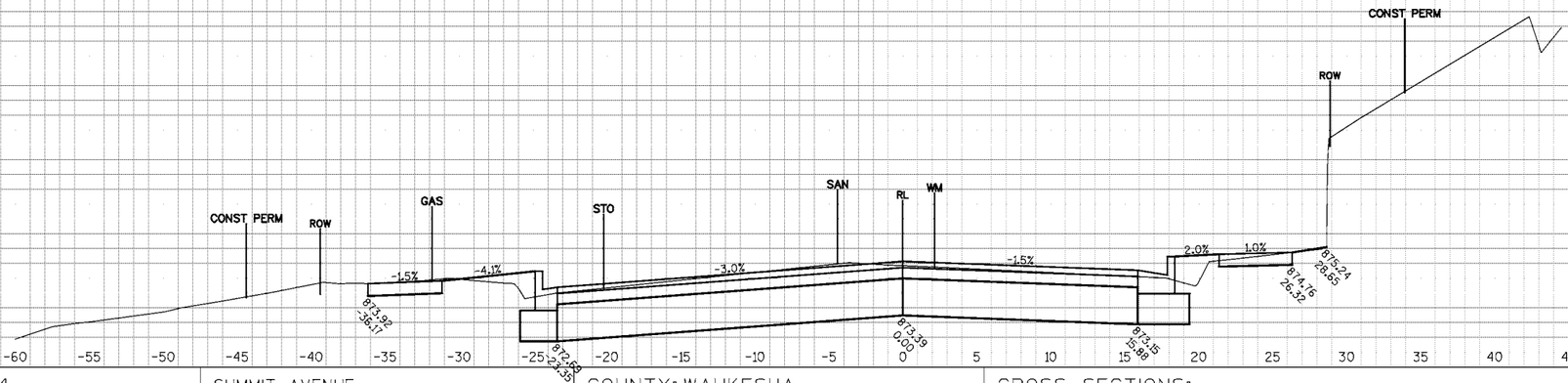
DRIVEWAY



43+50



43+00



9

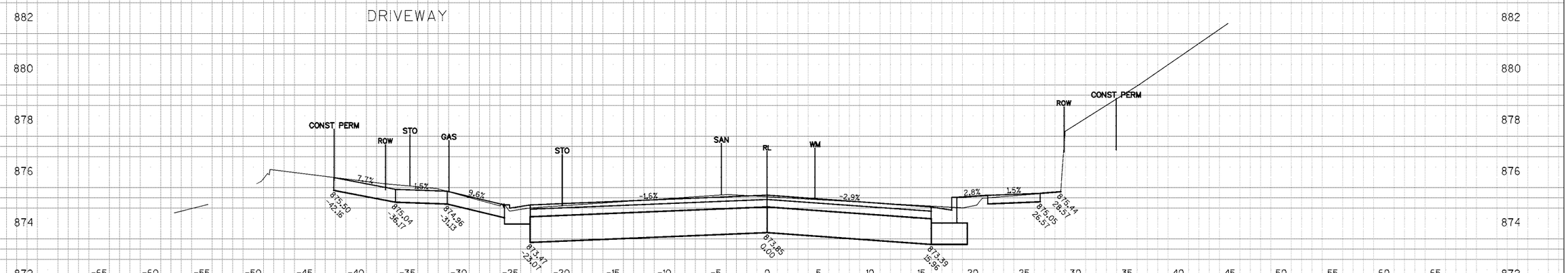
9

PROJECT NO: 2718-00-74	SUMMIT AVENUE	COUNTY: WAUKESHA	CROSS SECTIONS:	SHEET 151 E

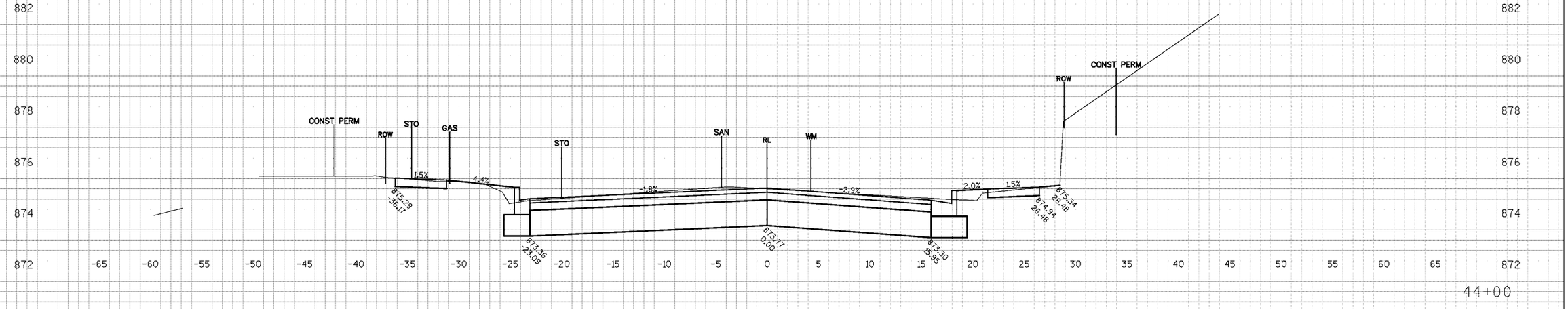
FILE NAME : G:\C3D\4792219\DWG\Z-085-125-SUMMIT AVENUE-CROSS SECTIONS.DWG PLOT DATE : 1/31/2014 2:58 PM PLOT BY : KLEMM, DAVID PLOT NAME : PLOT SCALE : ----

WISDOT/CADDS SHEET 21

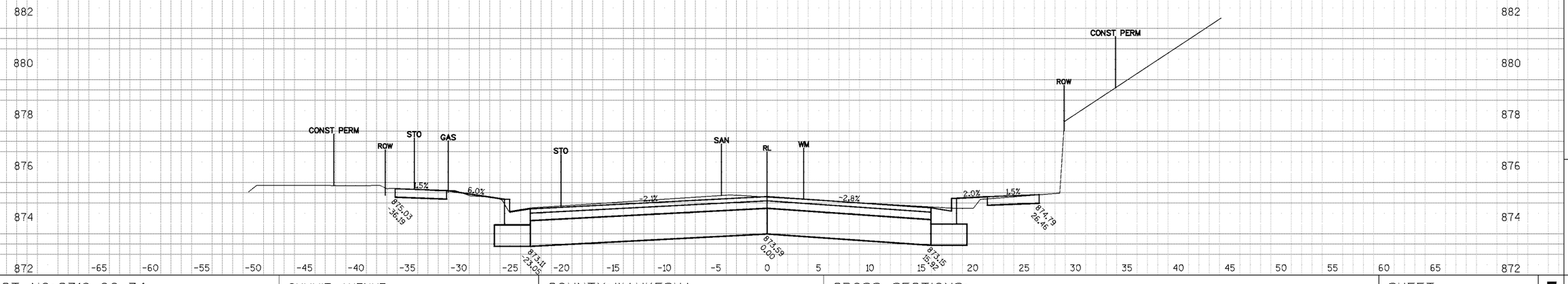
44+77



44+50



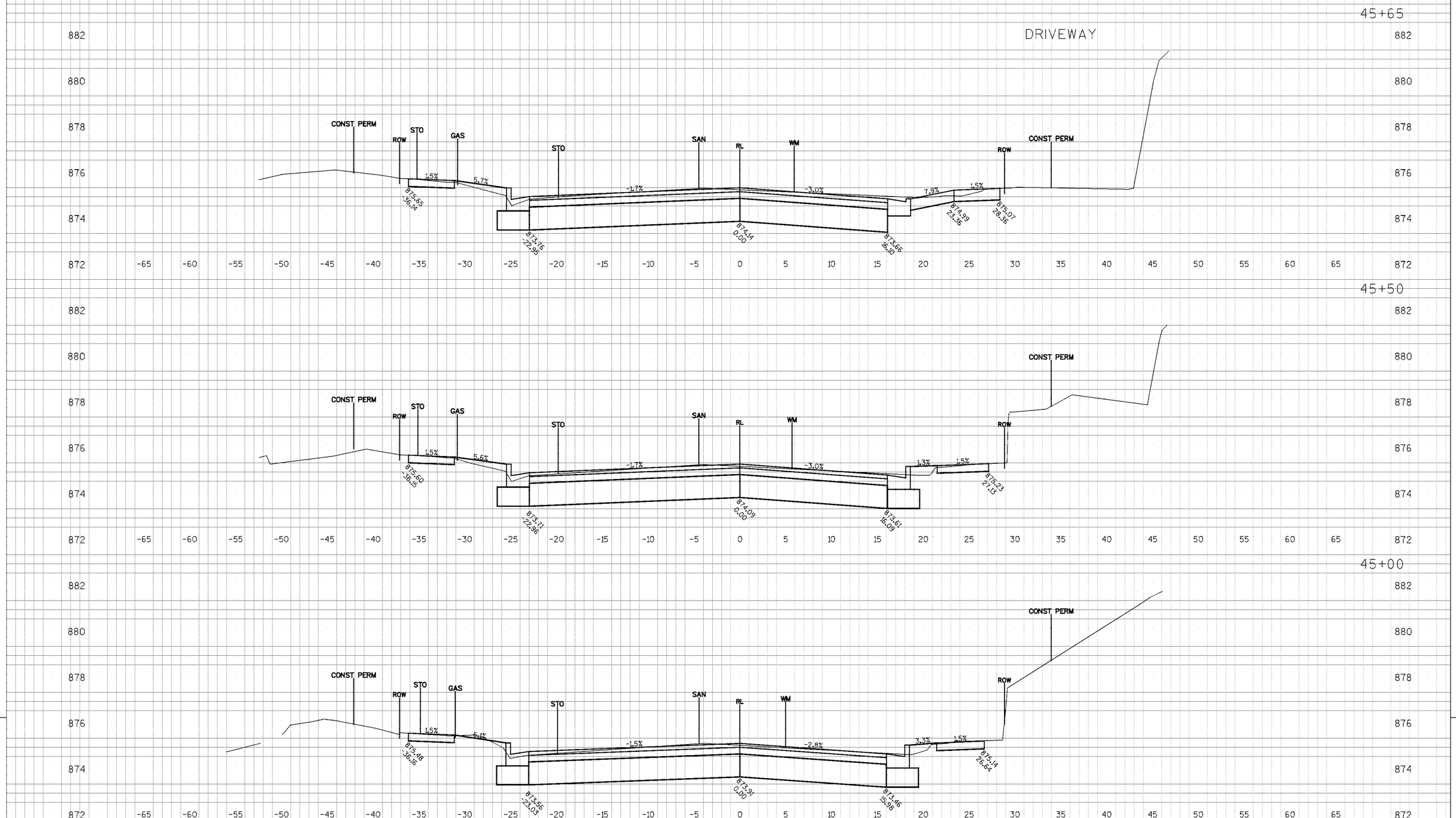
44+00



9

9

PROJECT NO: 2718-00-74	SUMMIT AVENUE	COUNTY: WAUKESHA	CROSS SECTIONS:	SHEET 152	E

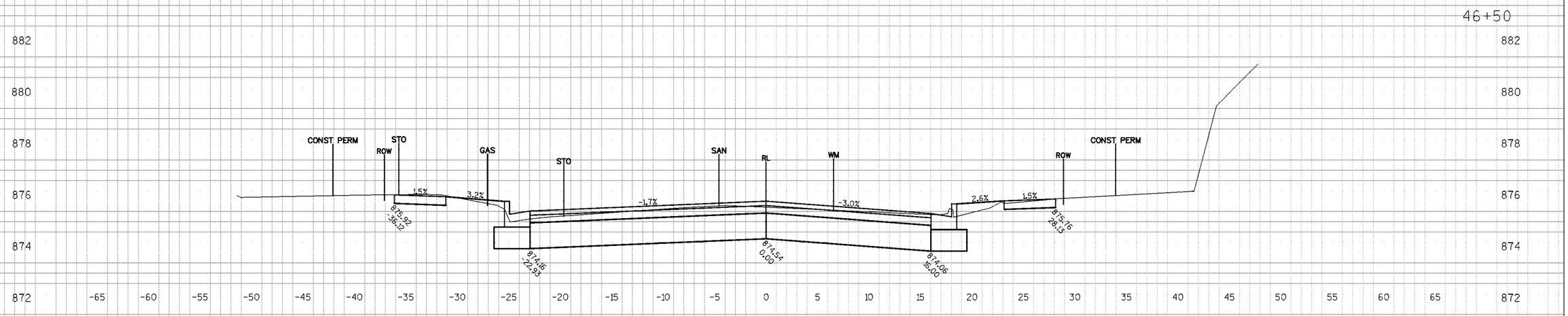


PROJECT NO: 2718-00-74	SUMMIT AVENUE	COUNTY: WAUKESHA	CROSS SECTIONS:	SHEET 153 E

FILE NAME : G:\C3D\4792219\DWG\Z-085-125-SUMMIT AVENUE-CROSS SECTIONS.DWG PLOT DATE : 1/31/2014 2:59 PM PLOT BY : KLEMM, DAVID PLOT NAME : PLOT SCALE : ----

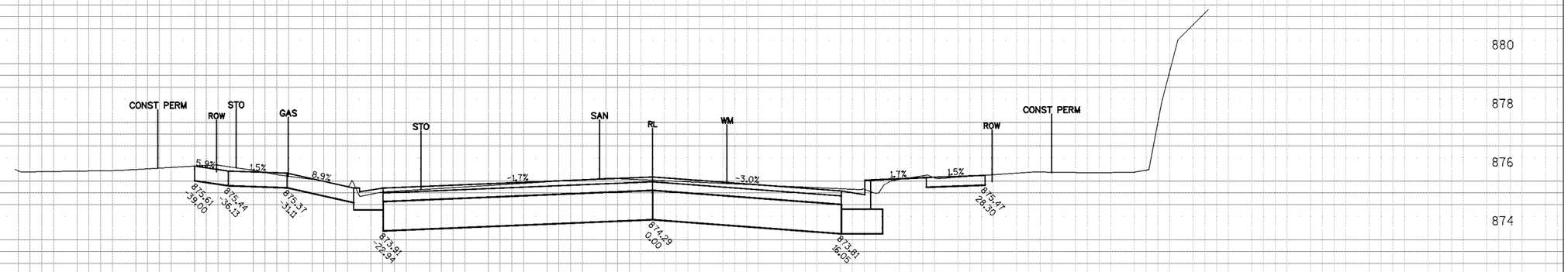
WISDOT/CADDS SHEET 21

46+50

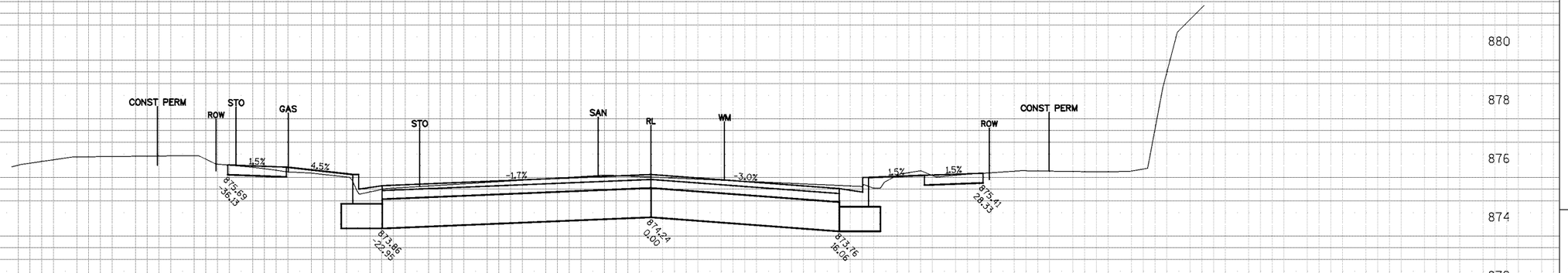


DRIVEWAY

46+08



46+00



9

9

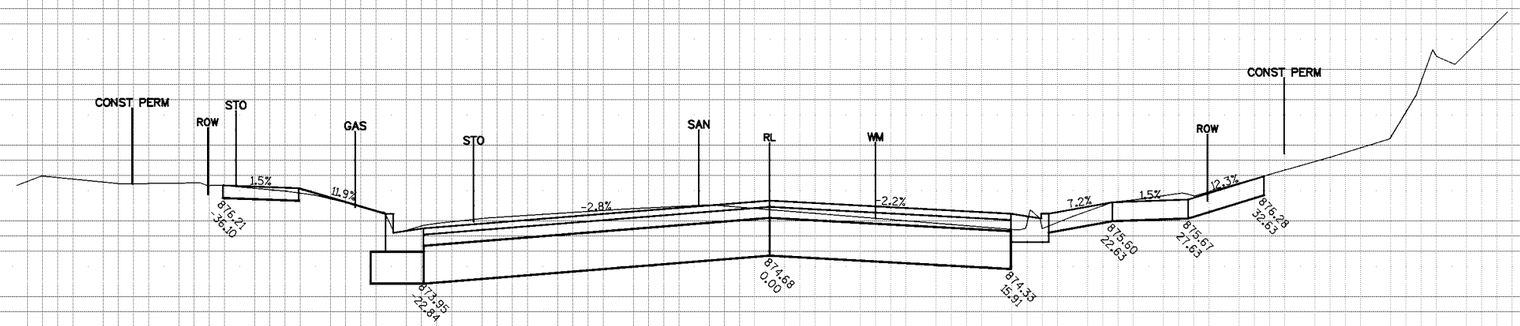
PROJECT NO: 2718-00-74	SUMMIT AVENUE	COUNTY: WAUKESHA	CROSS SECTIONS:	SHEET 154	E

FILE NAME : G:\C3D\4792219\DWG\Z-085-125-SUMMIT AVENUE-CROSS SECTIONS.DWG PLOT DATE : 1/31/2014 2:59 PM PLOT BY : KLEMM, DAVID PLOT NAME : PLOT SCALE : ----

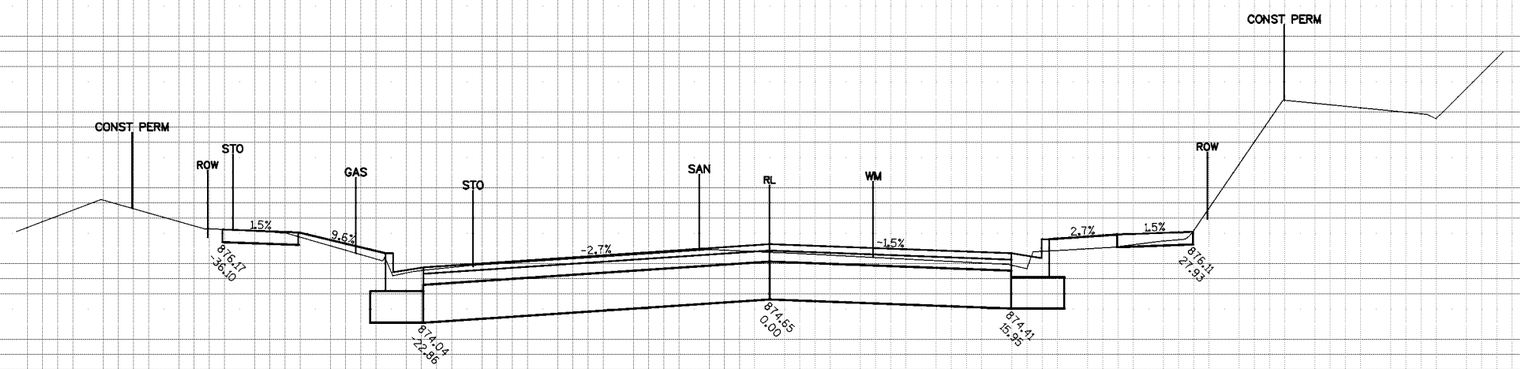
WISDOT/CADDS SHEET 21

47+24

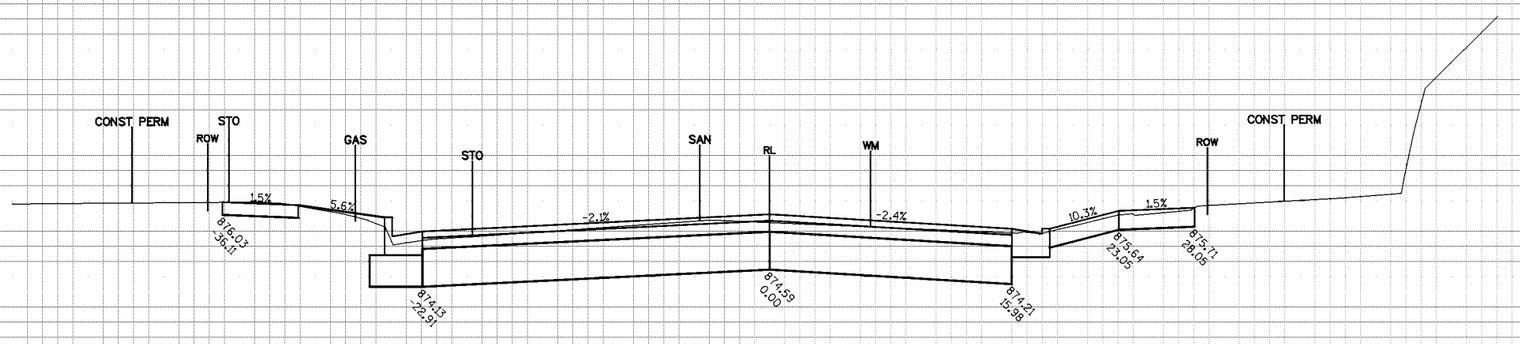
DRIVEWAY



47+00



46+71

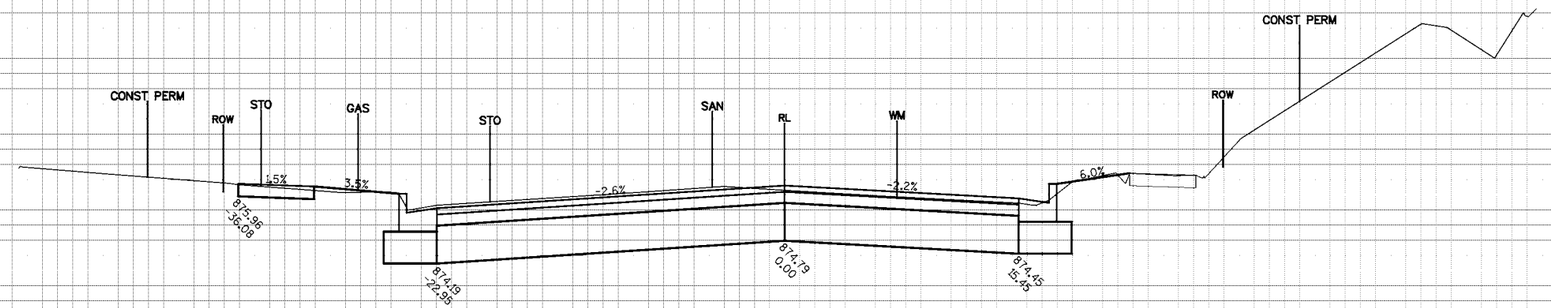


9

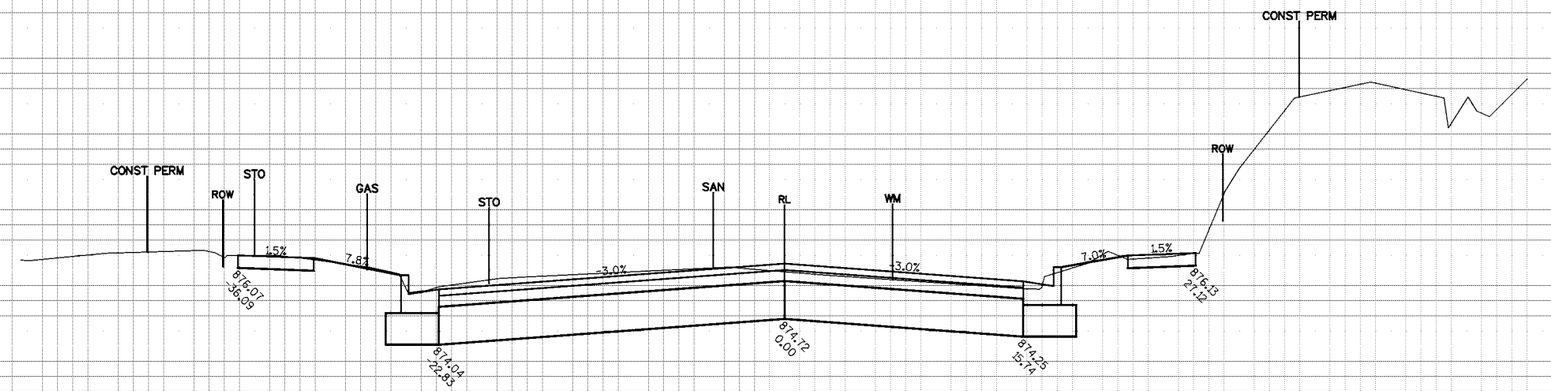
9

PROJECT NO: 2718-00-74	SUMMIT AVENUE	COUNTY: WAUKESHA	CROSS SECTIONS:	SHEET 155	E

48+00

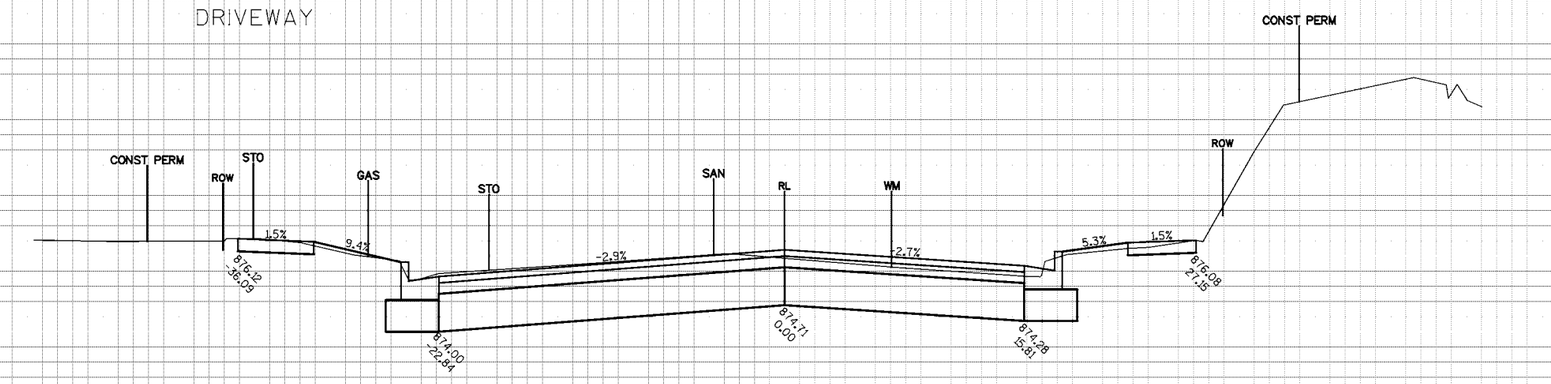


47+50



47+40

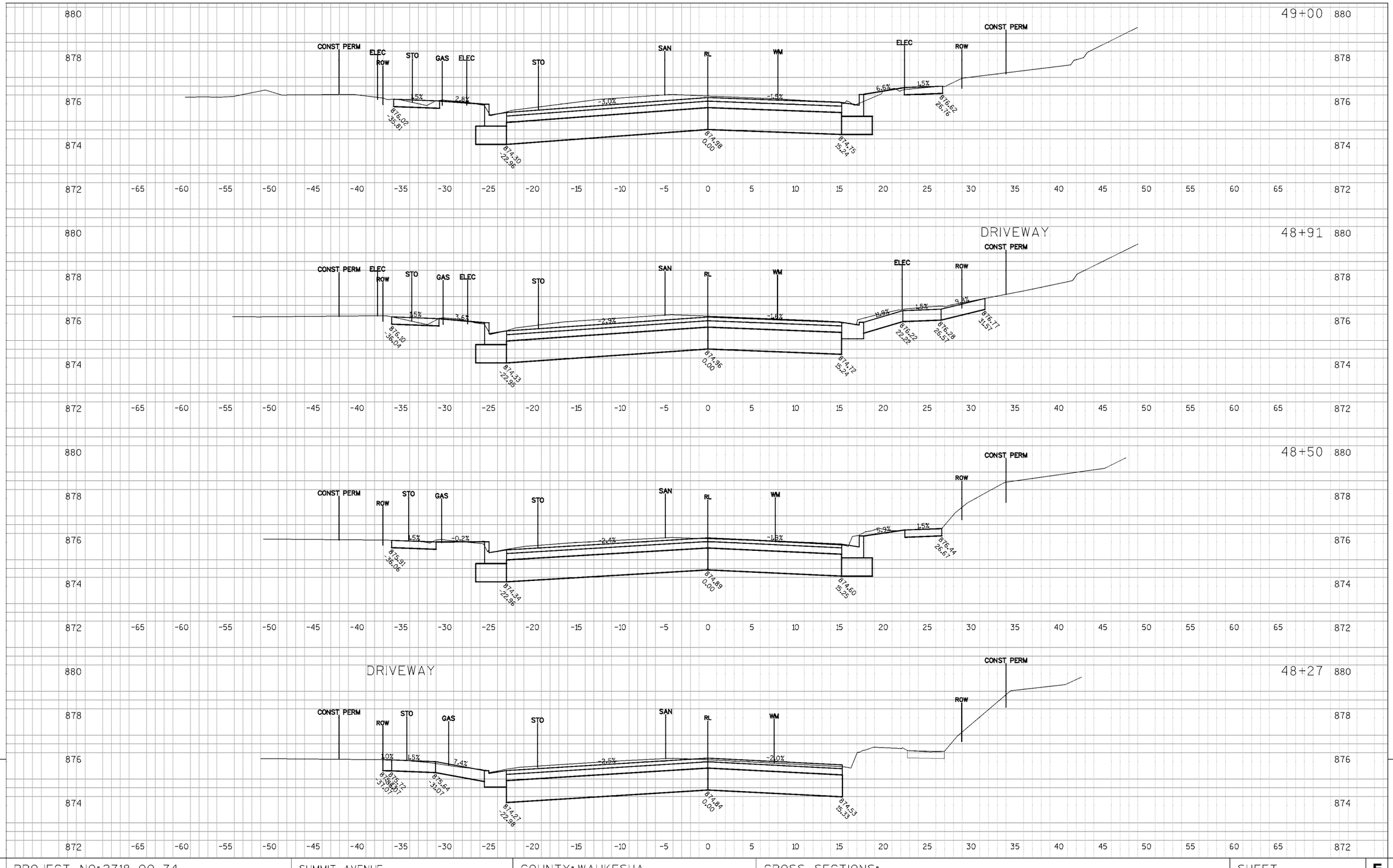
DRIVEWAY



PROJECT NO: 2718-00-74	SUMMIT AVENUE	COUNTY: WAUKESHA	CROSS SECTIONS:	SHEET 156 E

FILE NAME : G:\C3D\4792219\DWG\Z-085-125-SUMMIT AVENUE-CROSS SECTIONS.DWG PLOT DATE : 1/31/2014 3:00 PM PLOT BY : KLEMM, DAVID PLOT NAME : PLOT SCALE : ----

WISDOT/CADDS SHEET 21



9

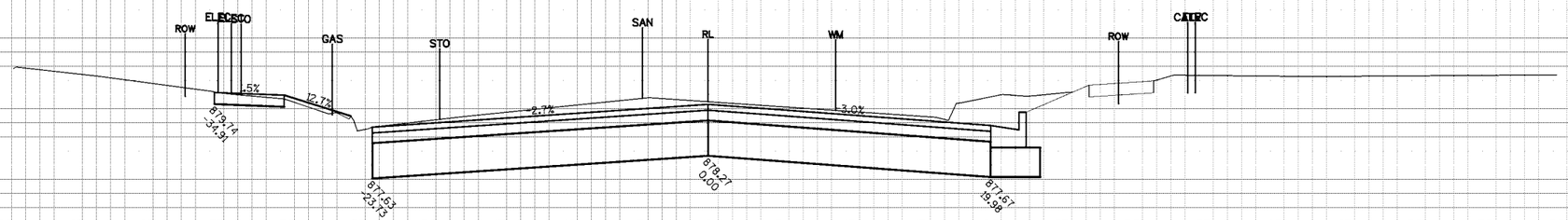
9

PROJECT NO: 2718-00-74	SUMMIT AVENUE	COUNTY: WAUKESHA	CROSS SECTIONS:	SHEET 157 E

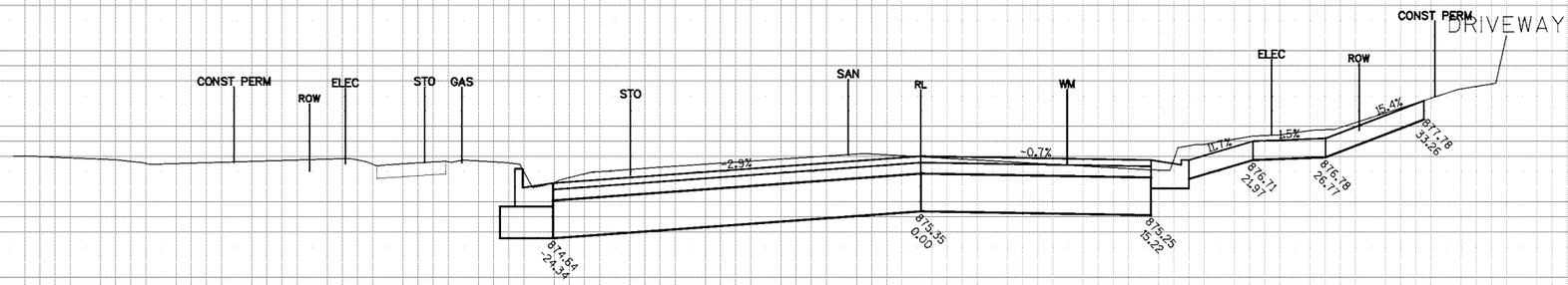
FILE NAME : G:\C3D\4792219\DWG\Z-085-125-SUMMIT AVENUE-CROSS SECTIONS.DWG PLOT DATE : 2/3/2014 9:33 AM PLOT BY : KLEMM, DAVID PLOT NAME : PLOT SCALE : ----

WISDOT/CADDS SHEET 21

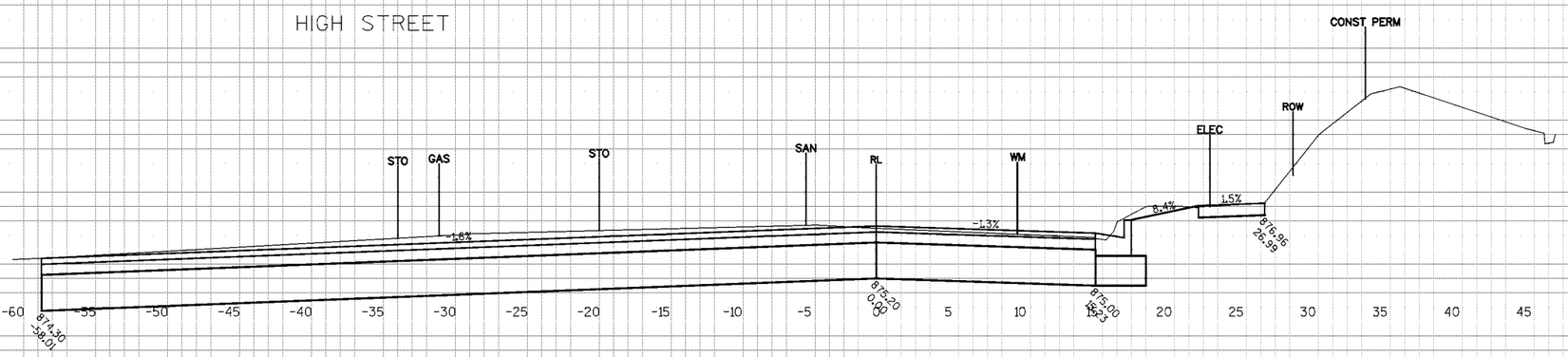
52+00



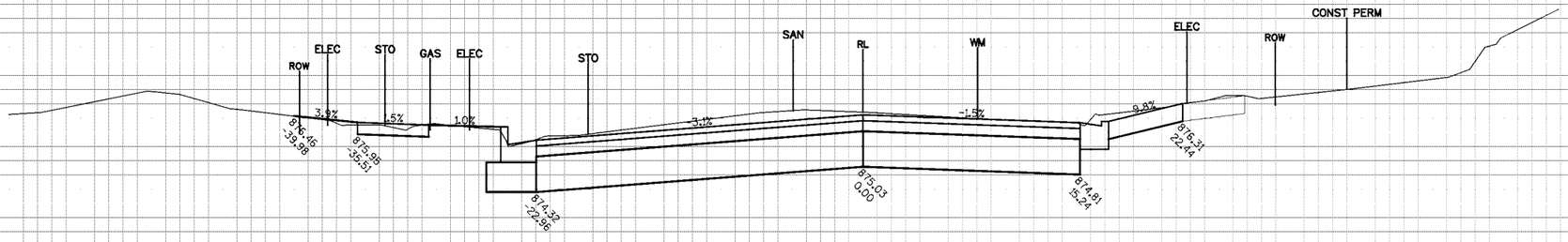
50+00



49+50



49+12

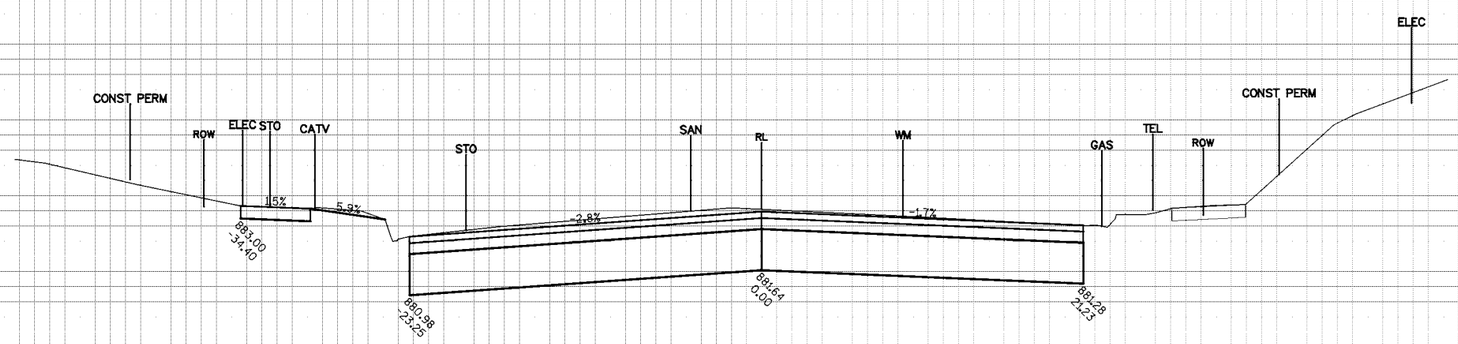


9

9

PROJECT NO: 2718-00-74	SUMMIT AVENUE	COUNTY: WAUKESHA	CROSS SECTIONS:	SHEET 158	E

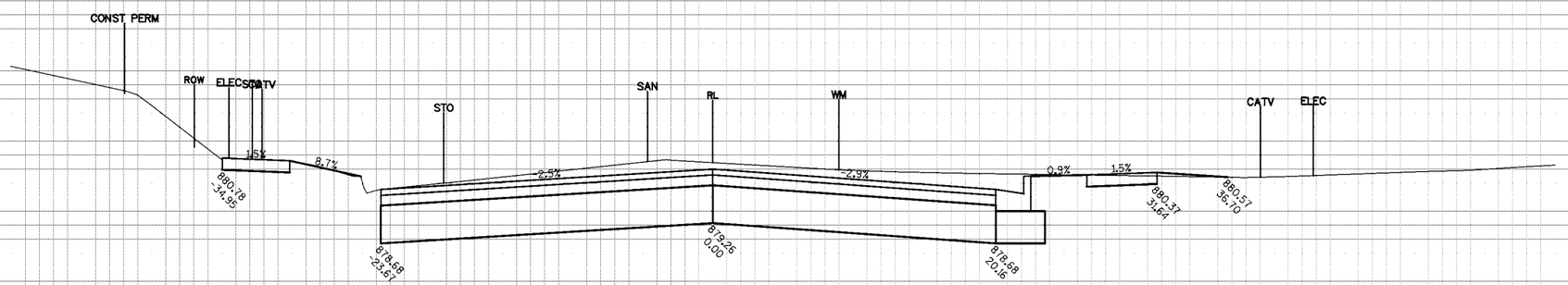
53+50



53+00

DRIVEWAY

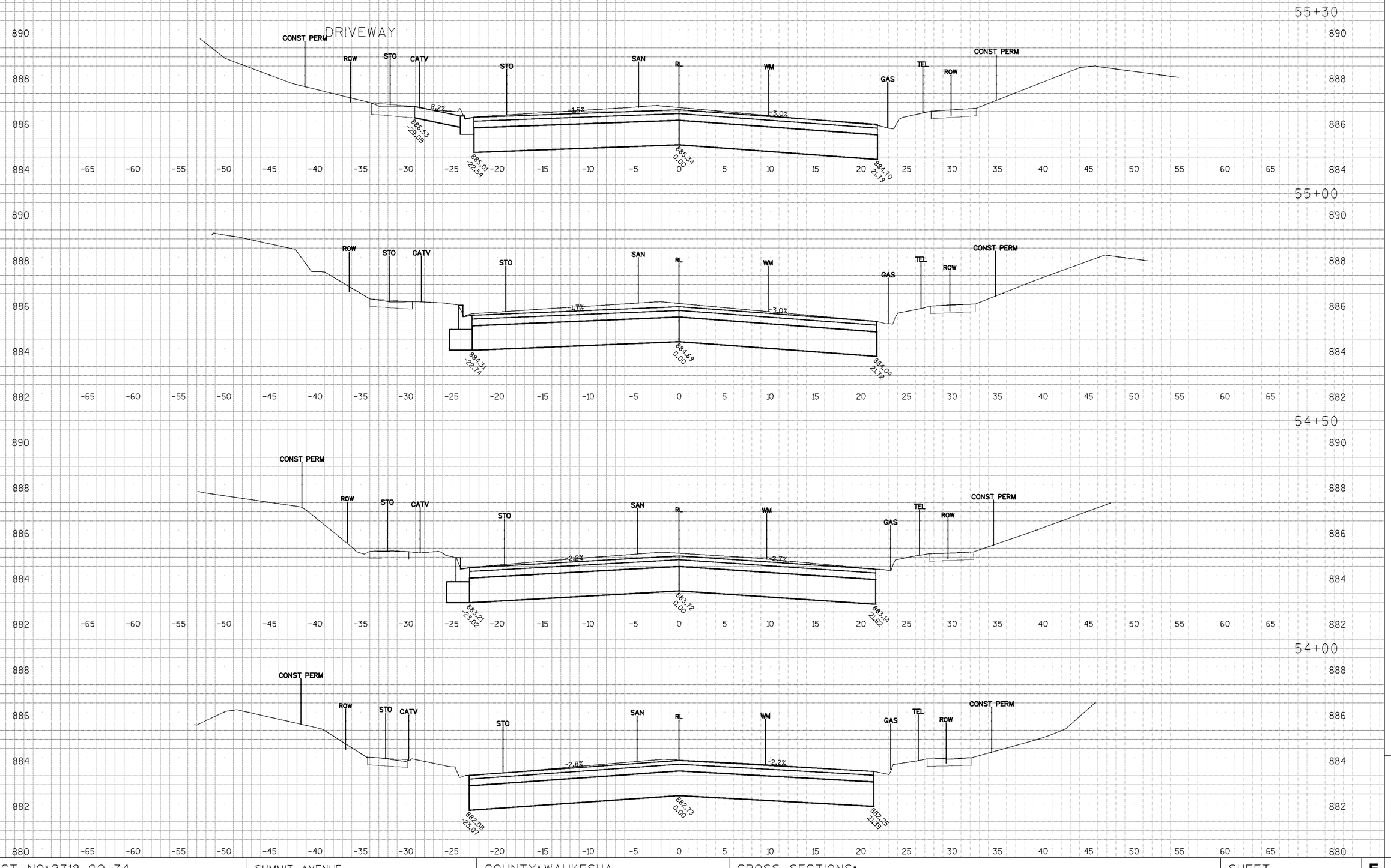
52+50



9

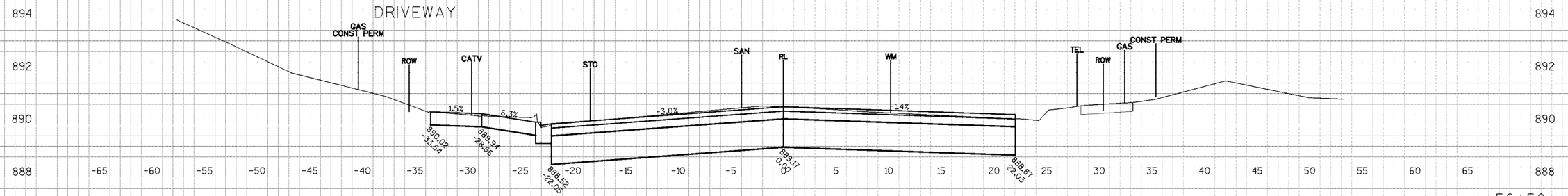
9

PROJECT NO: 2718-00-74	SUMMIT AVENUE	COUNTY: WAUKESHA	CROSS SECTIONS:	SHEET 159	E

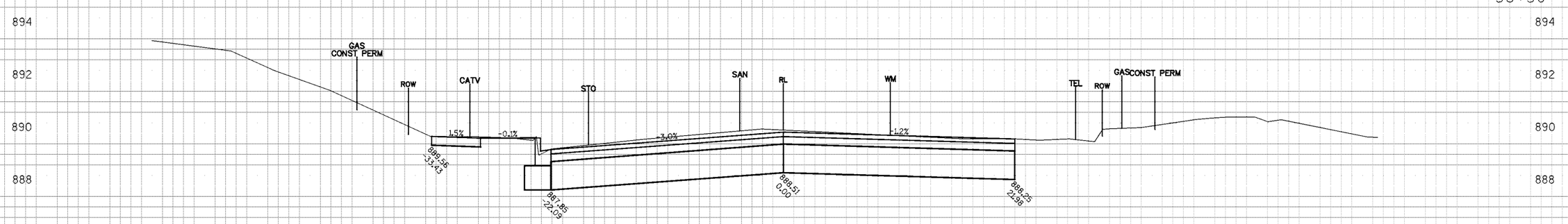


PROJECT NO: 2718-00-74	SUMMIT AVENUE	COUNTY: WAUKESHA	CROSS SECTIONS:	SHEET 160 E

56+69



56+50



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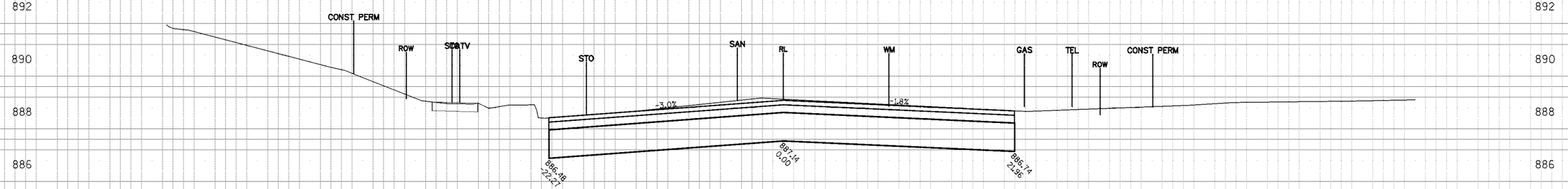

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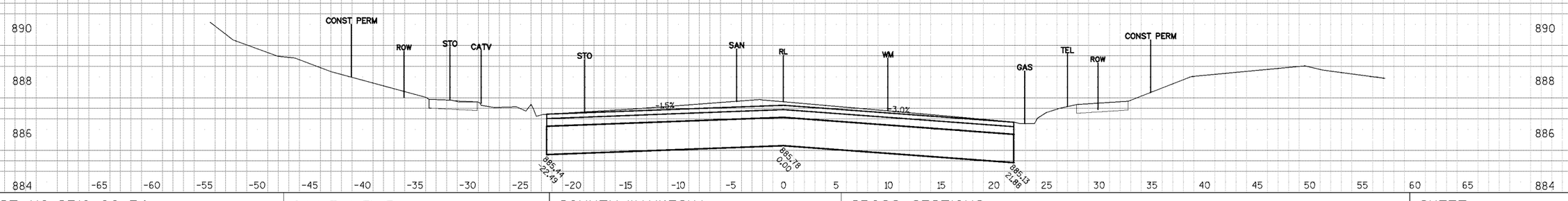

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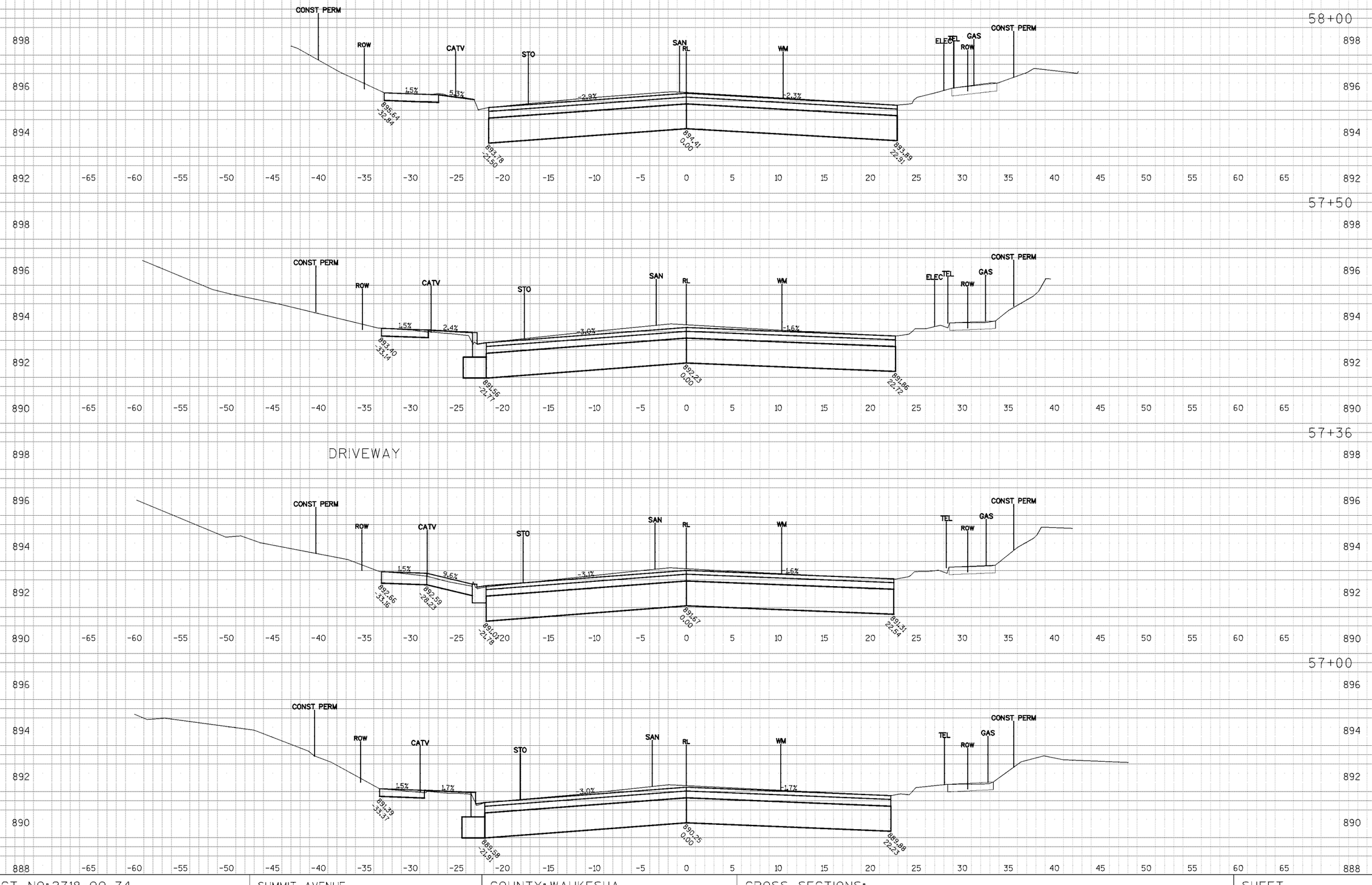
PROJECT NO: 2718-00-74	SUMMIT AVENUE	COUNTY: WAUKESHA	CROSS SECTIONS:	SHEET 161 E

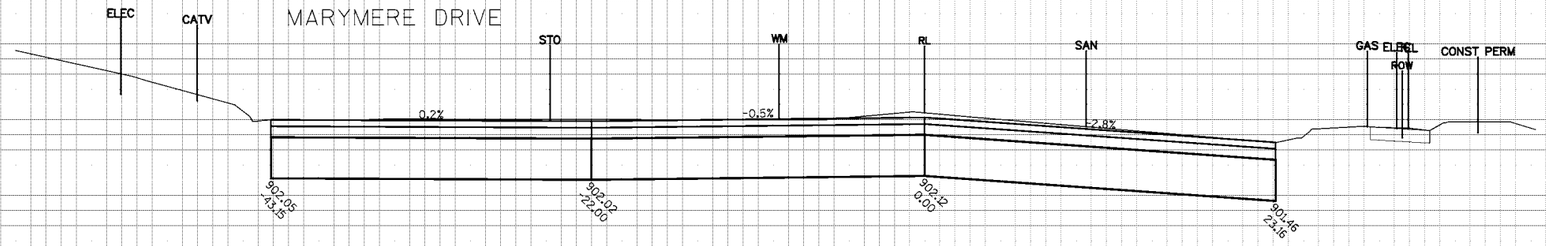
FILE NAME : G:\C3D\4792219\DWG\Z-085-125-SUMMIT AVENUE-CROSS SECTIONS.DWG PLOT DATE : 1/31/2014 3:01 PM PLOT BY : KLEMM, DAVID PLOT NAME : PLOT SCALE : ----

WISDOT/CADDS SHEET 21



PROJECT NO: 2718-00-74	SUMMIT AVENUE	COUNTY: WAUKESHA	CROSS SECTIONS:	SHEET 162 E

60+00



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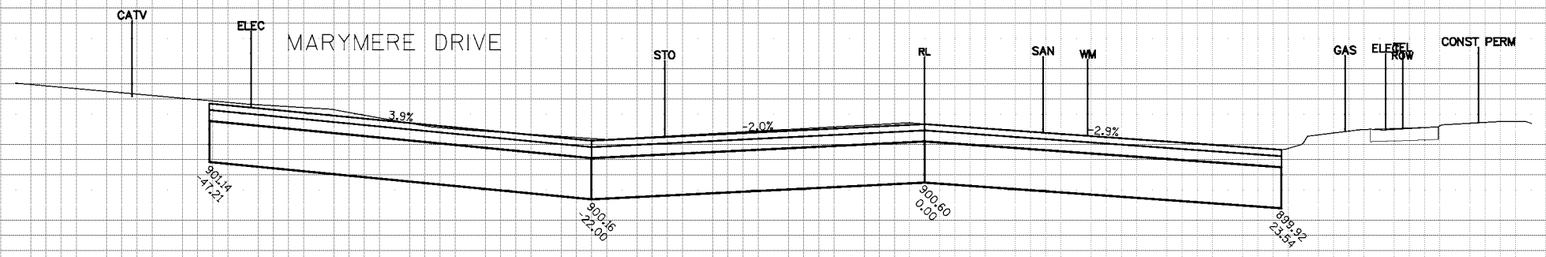

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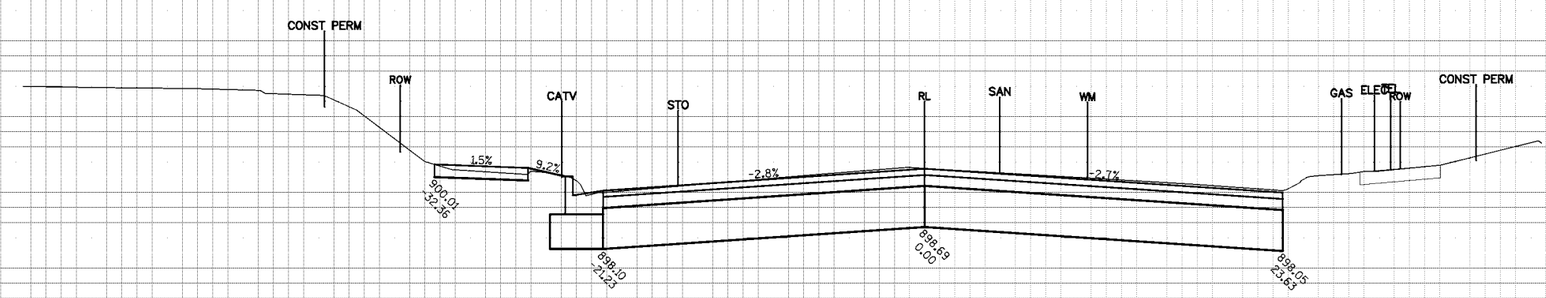
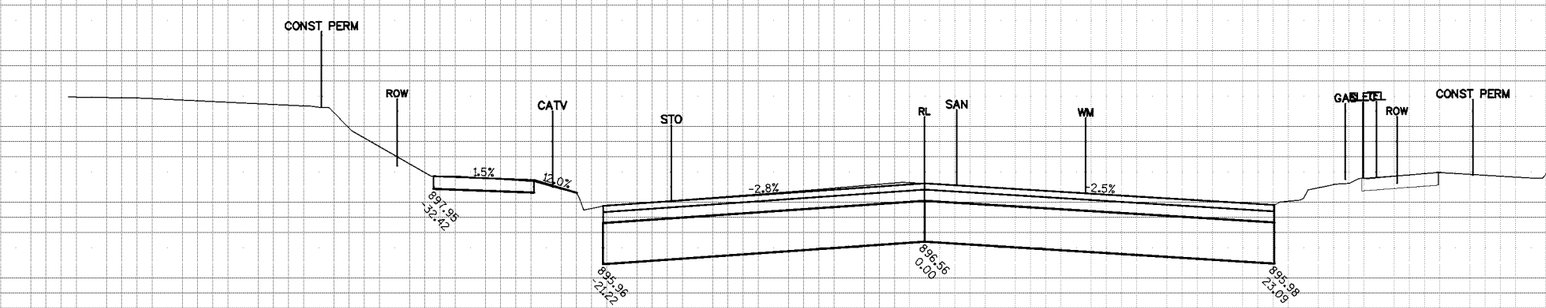


58+50



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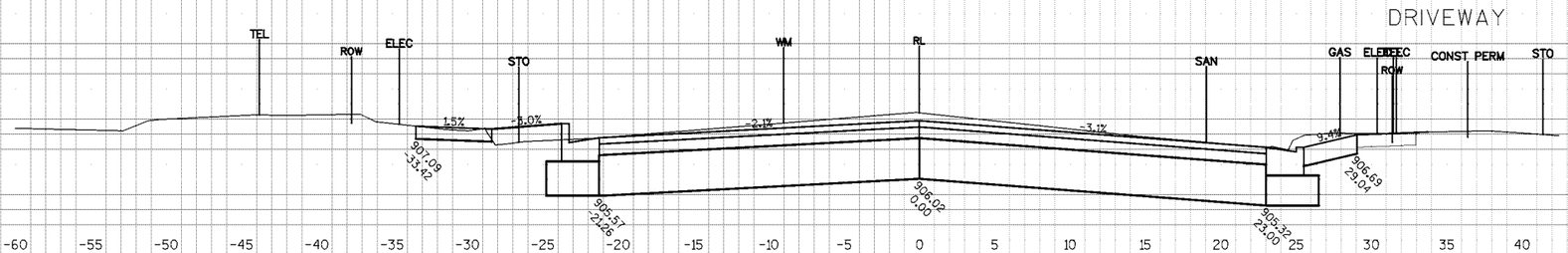
PROJECT NO: 2718-00-74	SUMMIT AVENUE	COUNTY: WAUKESHA	CROSS SECTIONS:	SHEET 163	E

61+65



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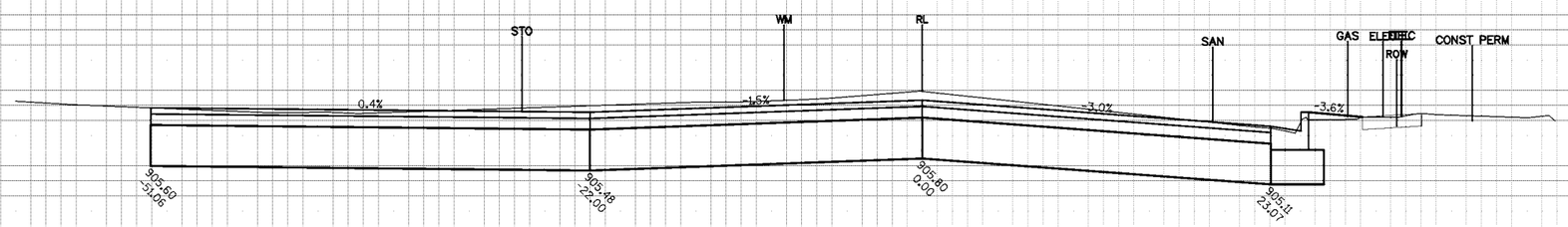

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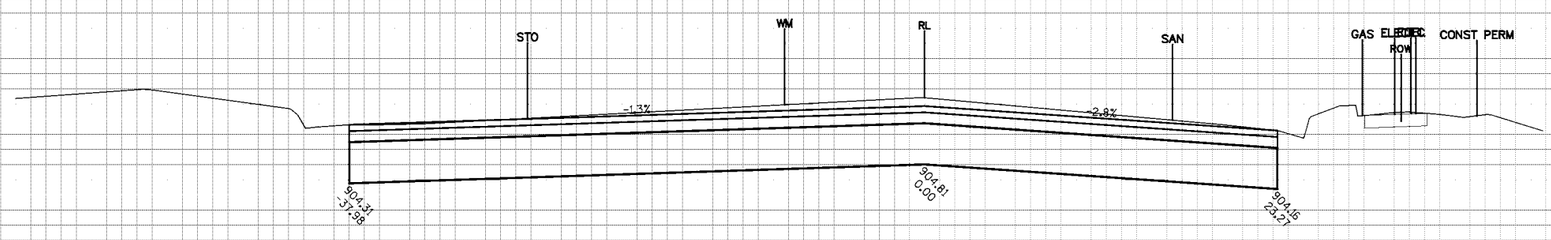

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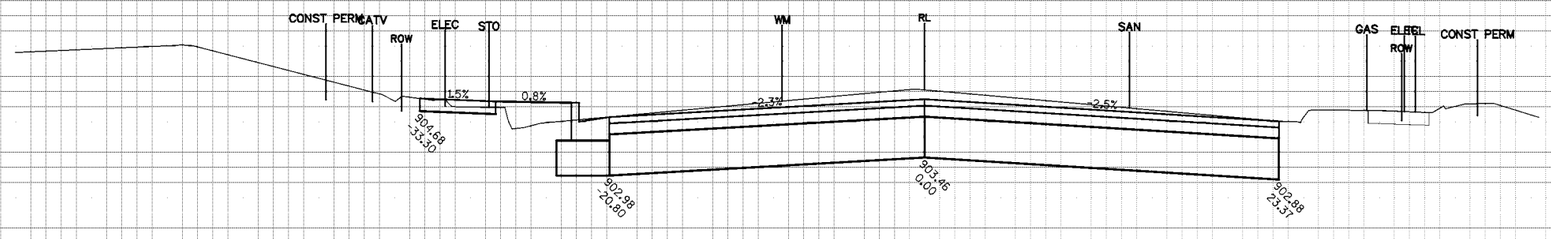
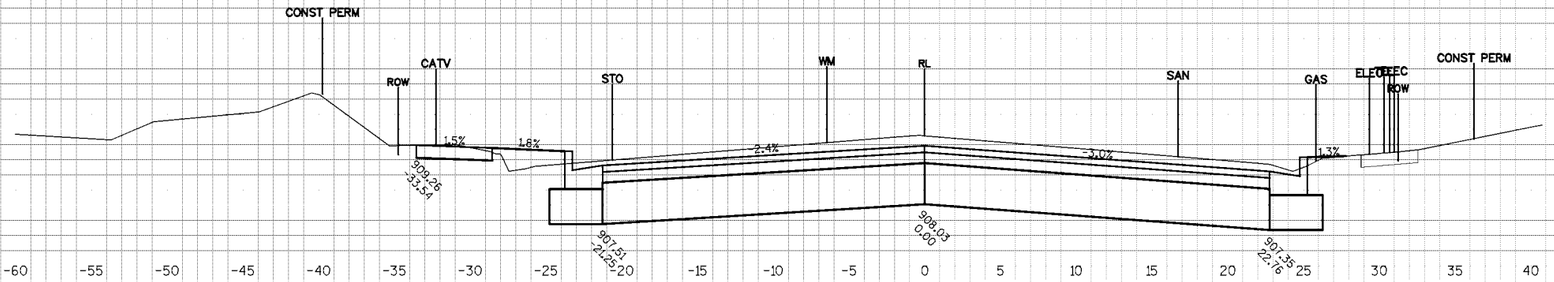


9 9

PROJECT NO: 2718-00-74	SUMMIT AVENUE	COUNTY: WAUKESHA	CROSS SECTIONS:	SHEET 164 E

63+50



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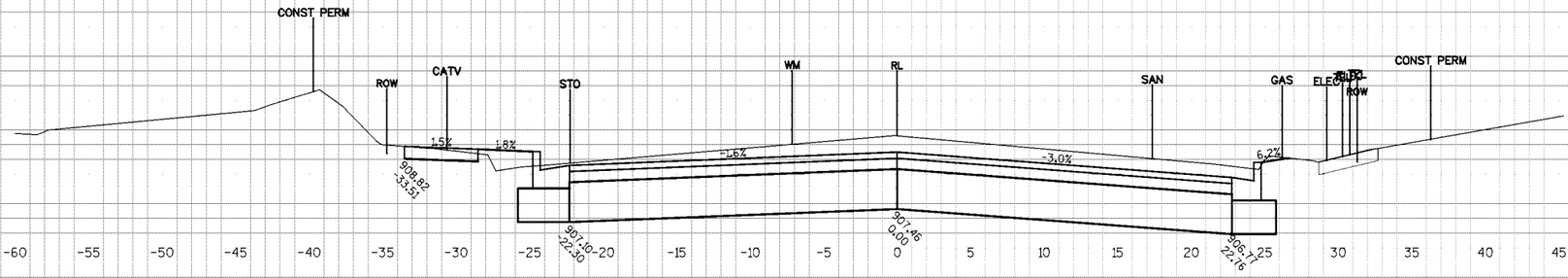

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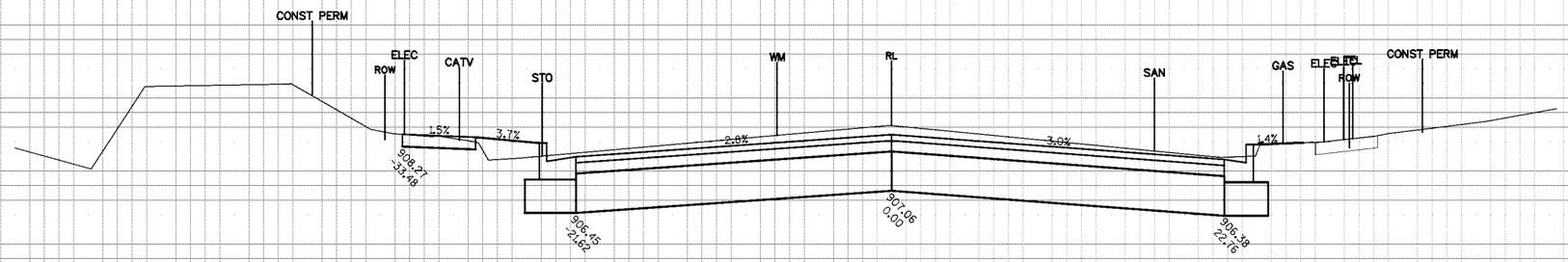
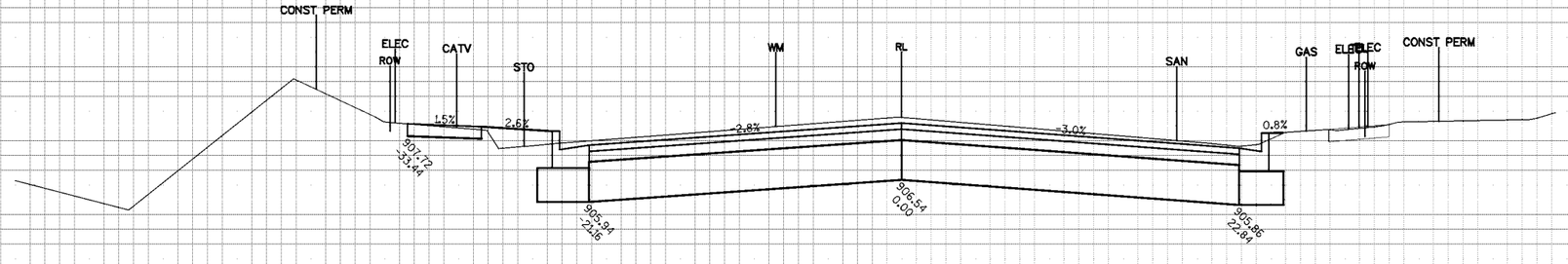


62+00



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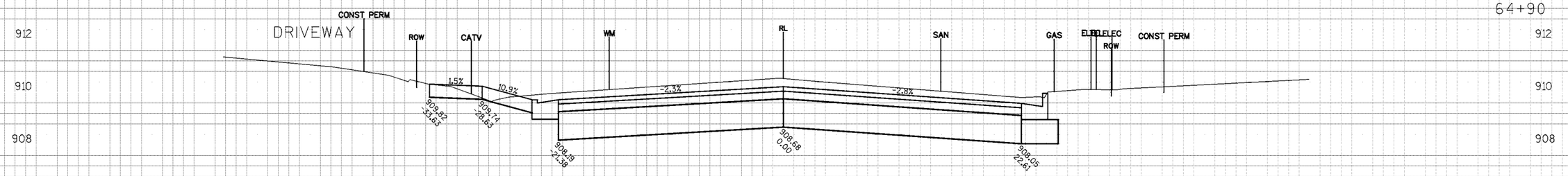
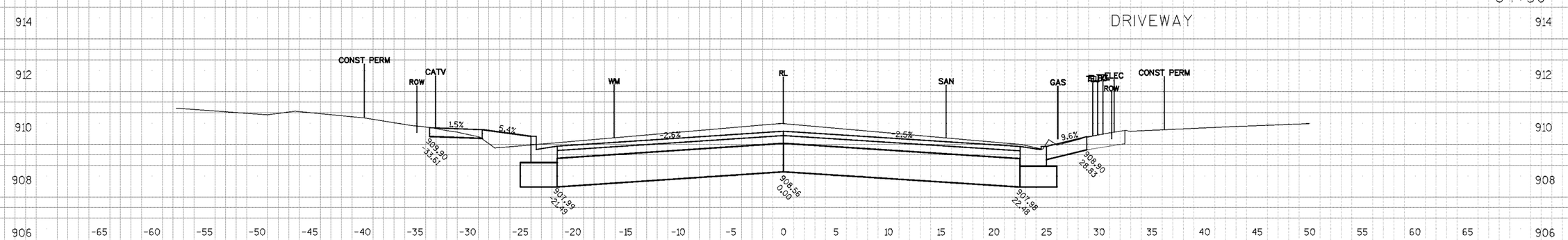
PROJECT NO: 2718-00-74	SUMMIT AVENUE	COUNTY: WAUKESHA	CROSS SECTIONS:	SHEET 165	E

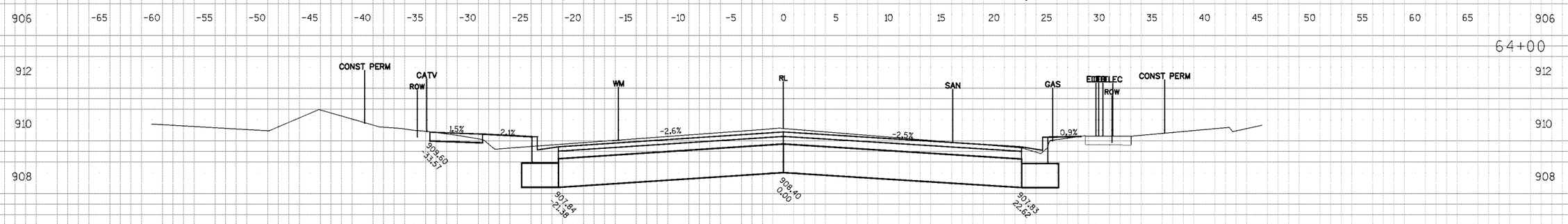
64+90



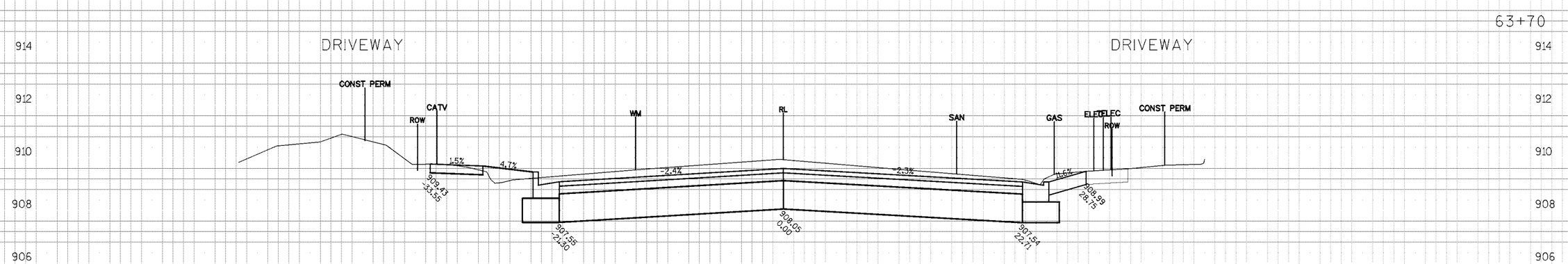
64+50



64+00



63+70



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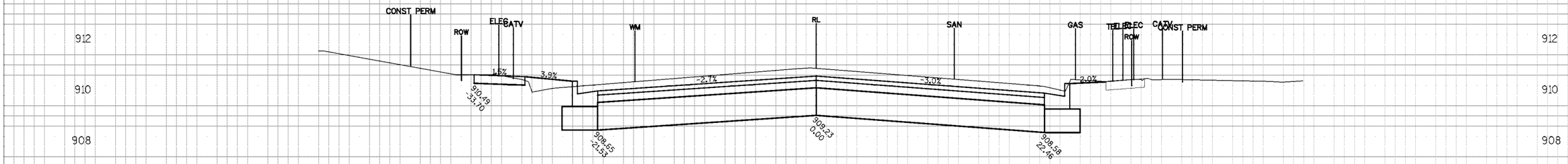
9

PROJECT NO: 2718-00-74	SUMMIT AVENUE	COUNTY: WAUKESHA	CROSS SECTIONS:	SHEET 166	E

66+00



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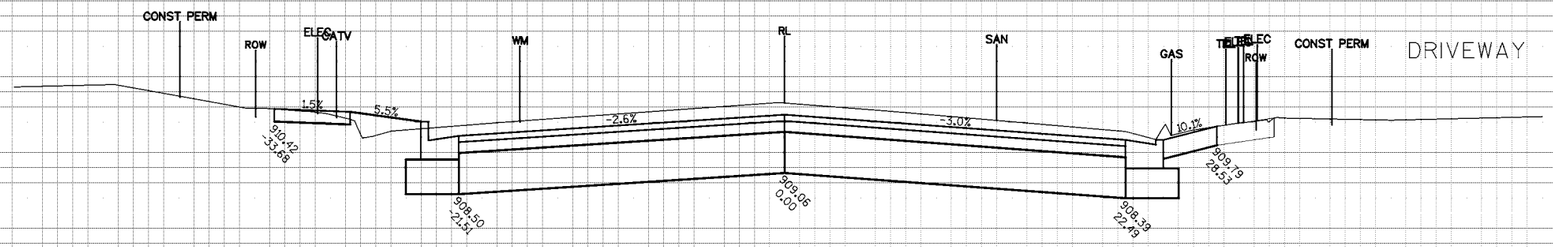
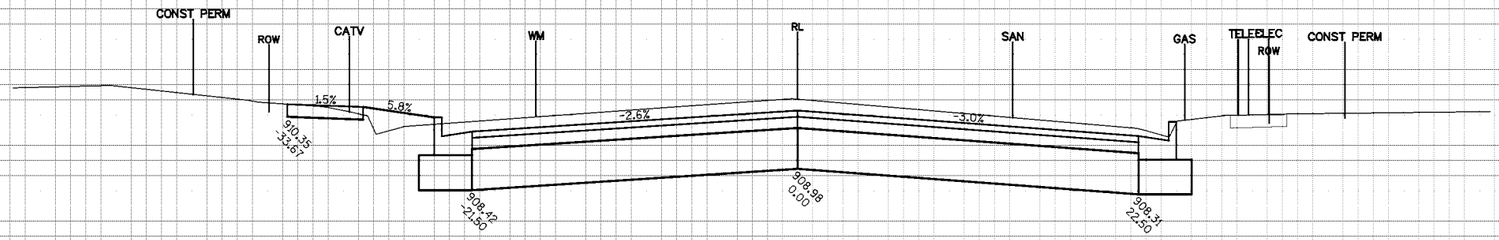
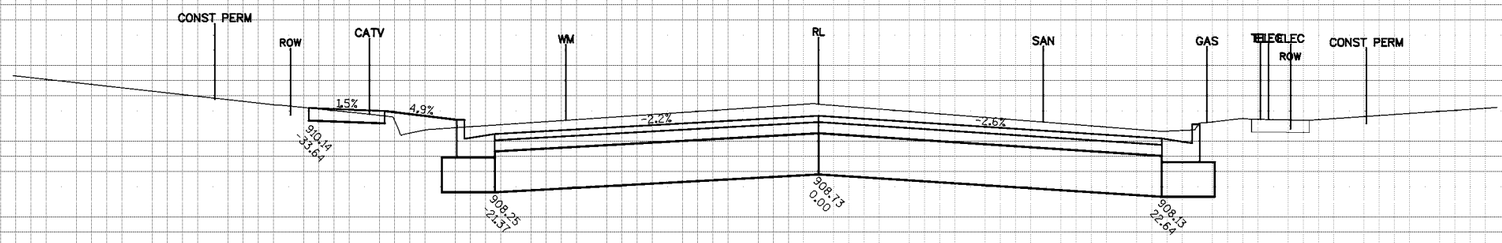


65+50



65+00



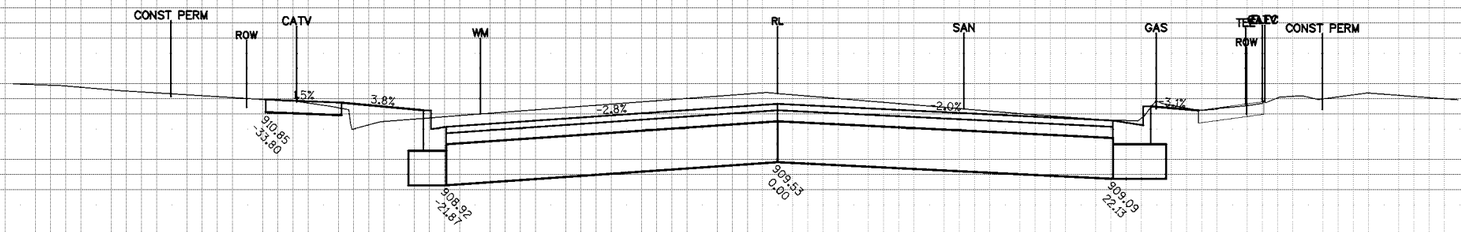
914 912 910 908 906

-65 -60 -55 -50 -45 -40 -35 -30 -25 -20 -15 -10 -5 0 5 10 15 20 25 30 35 40 45 50 55 60 65

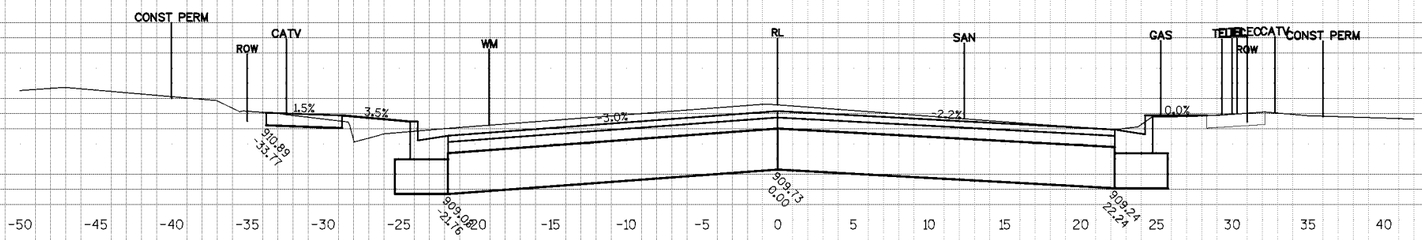
9 9

PROJECT NO: 2718-00-74	SUMMIT AVENUE	COUNTY: WAUKESHA	CROSS SECTIONS:	SHEET 167	E

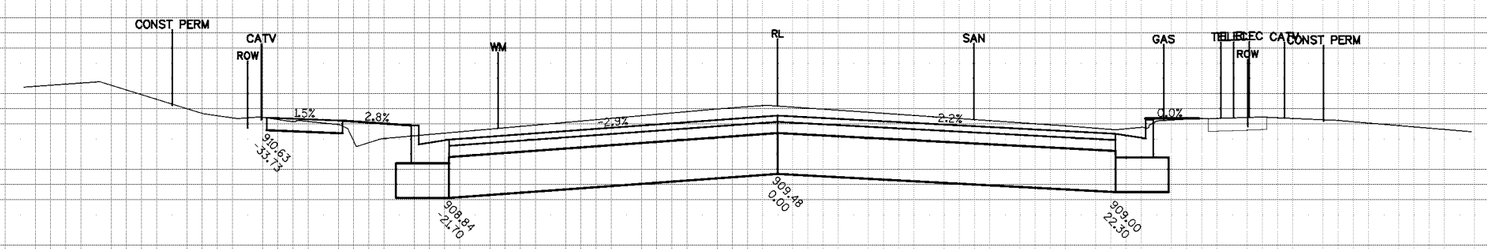
67+50



67+00



66+50



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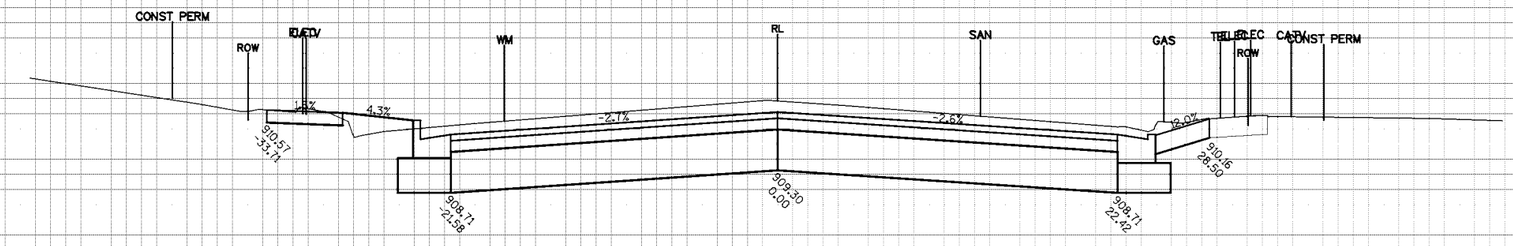
DRIVEWAY



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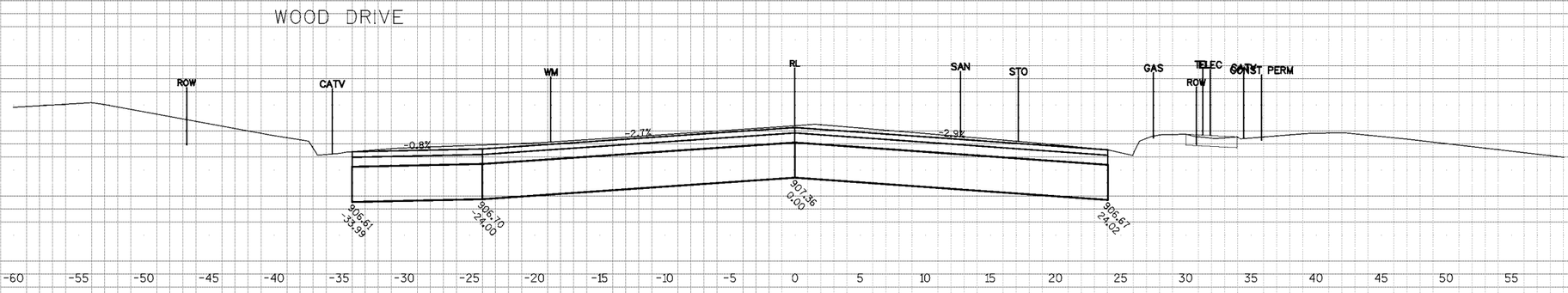
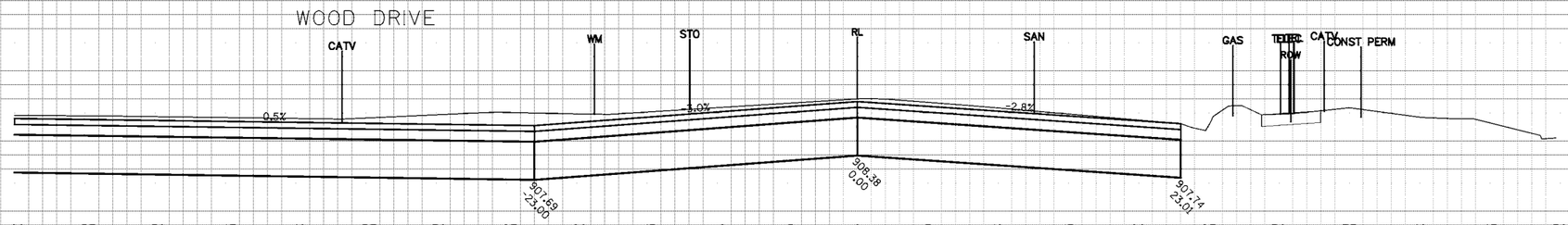
PROJECT NO: 2718-00-74	SUMMIT AVENUE	COUNTY: WAUKESHA	CROSS SECTIONS:	SHEET 168 E

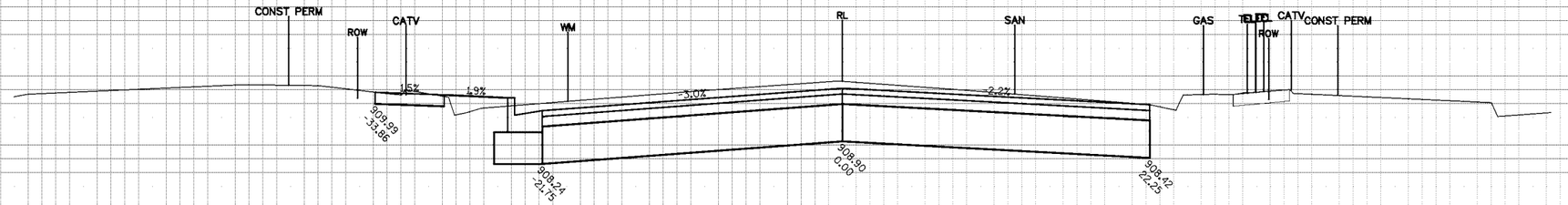
69+50



69+00



68+50



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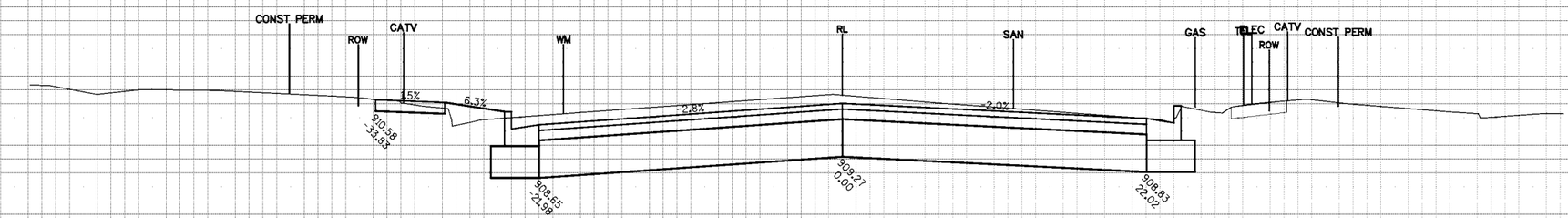

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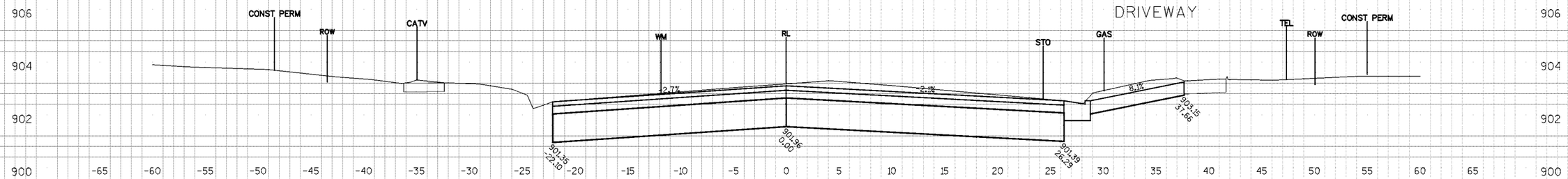
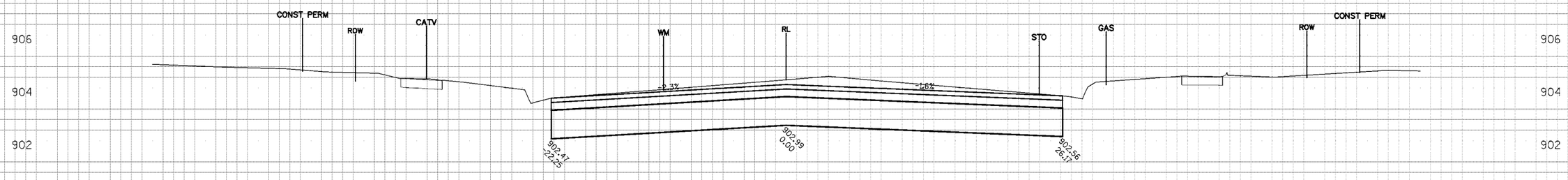
PROJECT NO: 2718-00-74	SUMMIT AVENUE	COUNTY: WAUKESHA	CROSS SECTIONS:	SHEET 169	E

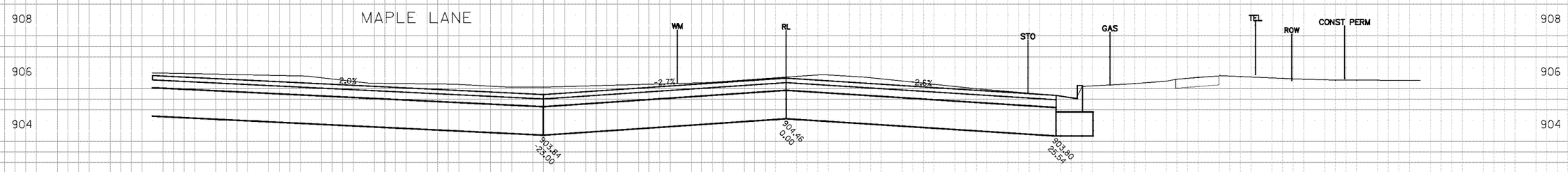
71+50



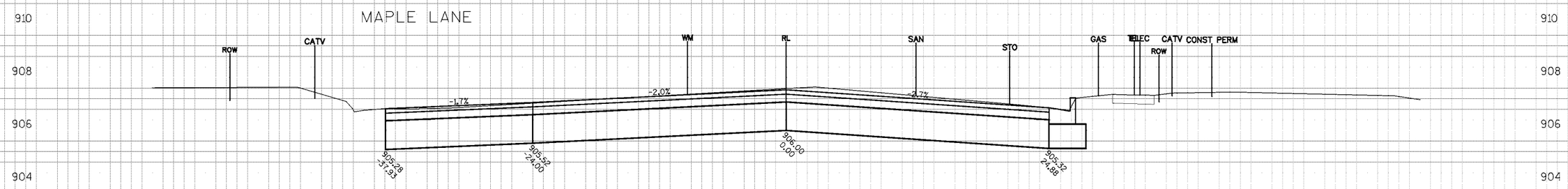
71+00



70+50



70+00



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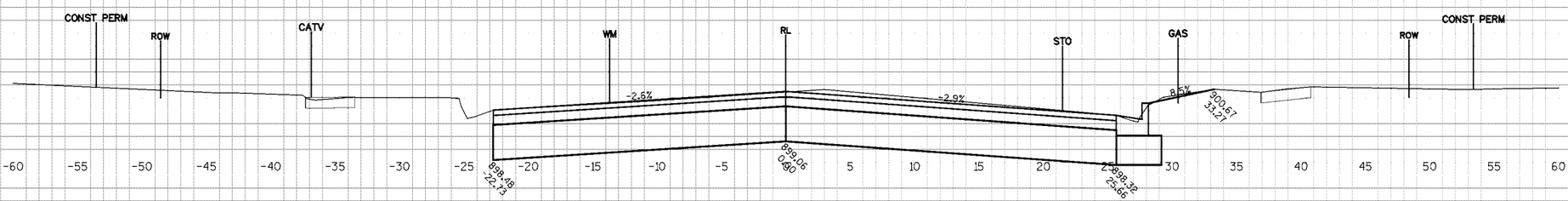
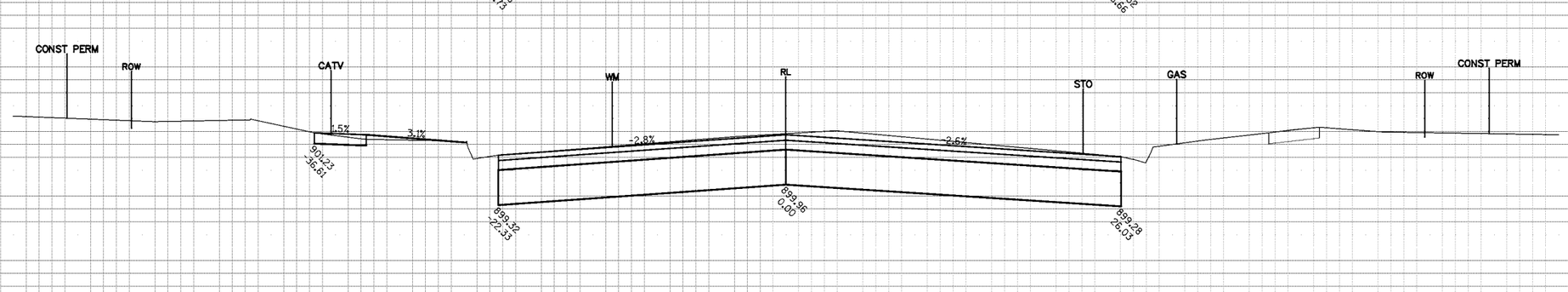
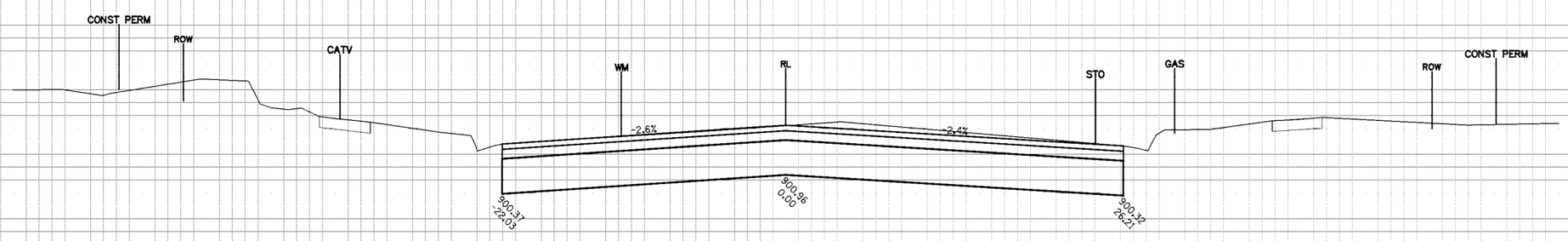
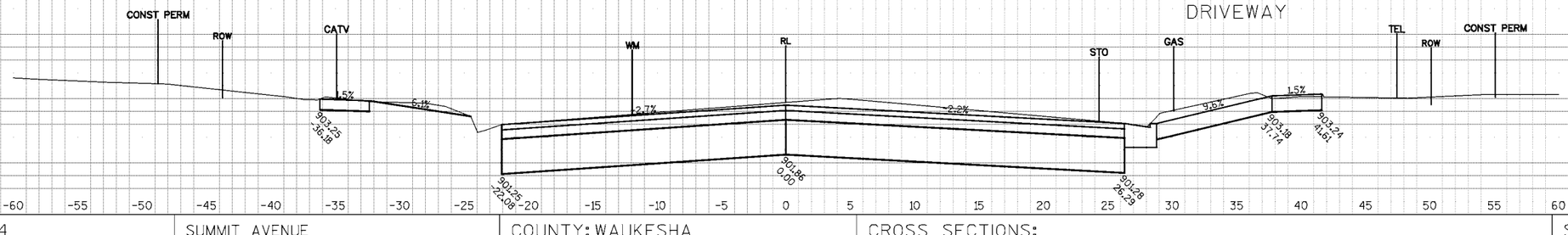
PROJECT NO: 2718-00-74	SUMMIT AVENUE	COUNTY: WAUKESHA	CROSS SECTIONS:	SHEET 170	E









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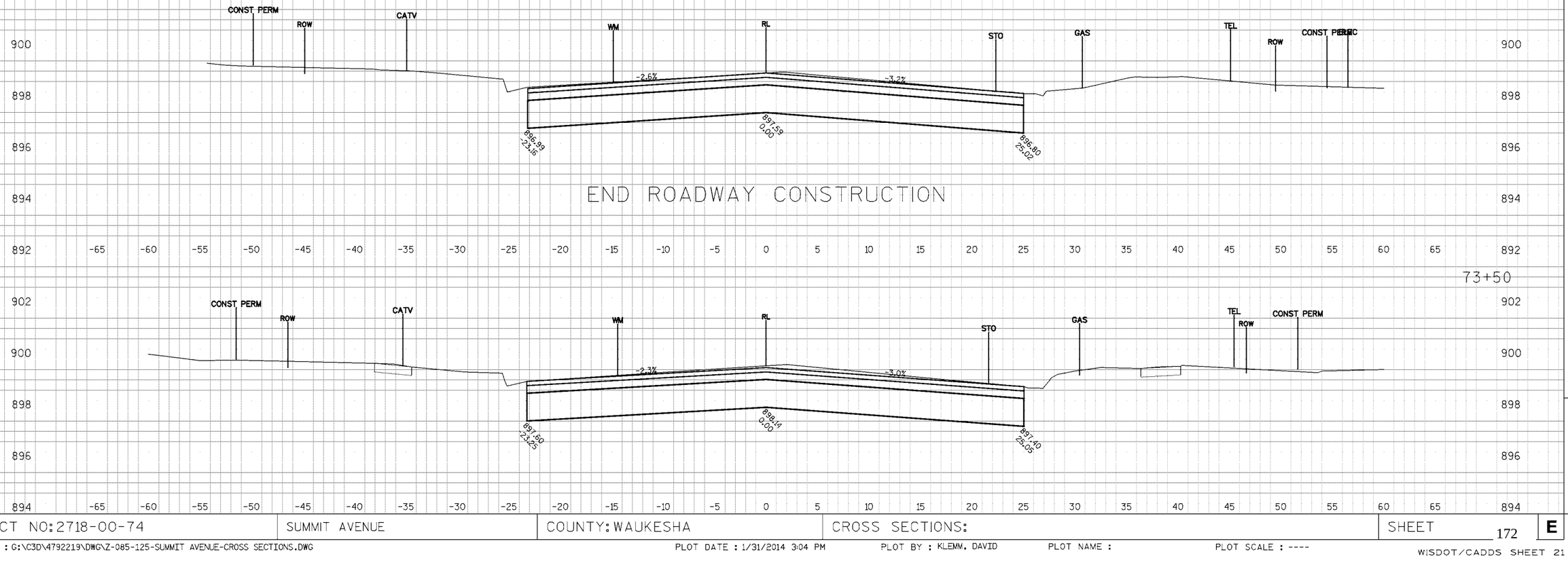
PROJECT NO: 2718-00-74	SUMMIT AVENUE	COUNTY: WAUKESHA	CROSS SECTIONS:	SHEET 171	E

FILE NAME : G:\C3D\4792219\DWG\Z-085-125-SUMMIT AVENUE-CROSS SECTIONS.DWG PLOT DATE : 1/31/2014 3:03 PM PLOT BY : KLEMM, DAVID PLOT NAME : PLOT SCALE : ----

WISDOT/CADDS SHEET 21

73+87



73+50

9 9

PROJECT NO: 2718-00-74	SUMMIT AVENUE	COUNTY: WAUKESHA	CROSS SECTIONS:	SHEET 172	E

Notes

Wisconsin Department of Transportation

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through innovation and exceptional service.

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