

PAY ITEM QUANTITY CALCULATIONS

*INSTALLATION OF PAVEMENT MARKINGS AT VARIOUS LOCATIONS IN THE
BUFFALO AND SYRACUSE DIVISIONS*

TAB 24-32
D215002
PIN B53807
H378.4

**INSTALLATION OF PAVEMENT MARKINGS AT VARIOUS LOCATIONS IN THE BUFFALO
AND SYRACUSE DIVISIONS**

ITEM NUMBER	ITEM DESCRIPTION	UNITS	QUANTITY
619.0101	BASIC WORK ZONE TRAFFIC CONTROL (DAILY OPERATIONS)	LS	1
619.24	NIGHTTIME OPERATIONS	LS	1
635.01030625	CLEANING AND PREPARATION OF PAVEMENT SURFACES - 6" WIDTH LINES	LF	1,000
635.0203	CLEANING AND PREPARATION OF PAVEMENT SURFACES - LETTERS	EA	80
635.0303--25	CLEANING AND PREPARATION OF PAVEMENT SURFACES - SYMBOLS	EA	33
635.0402--25	MISCELLANEOUS ABRADING OF EPOXY PAVEMENT STRIPES	LF	1,000
635.04030225	RECESS DIAMOND GRINDING FOR INLAID PAVEMENT MARKINGS	LF	13,555
685.0106--25	WHITE EPOXY REFLECTORIZED PAVEMENT STRIPES 6 INCH X 15 MILS	LF	83,746
685.0206--25	YELLOW EPOXY REFLECTORIZED PAVEMENT STRIPES 6 INCH X 15 MILS	LF	38,715
685.1306--25	WHITE EPOXY REFLECTORIZED PAVEMENT LETTERS	EA	80
685.1406--25	WHITE EPOXY REFLECTORIZED PAVEMENT SYMBOLS	EA	33
685.15----25	BLACK EPOXY PAVEMENT MARKINGS	LF	54,335
685.1707--25	WHITE HIGHLY REFLECTORIZED TRIPLE DROP EPOXY PAVEMENT STRIPES - 6 IN. x 20 MILS	LF	594,575
685.1708--25	YELLOW HIGHLY REFLECTORIZED TRIPLE DROP EPOXY PAVEMENT STRIPES - 6 IN. x 20 MILS	LF	437,375



PROJECT: Installation of Pavement Markings at Various
Locations in the Buffalo and Syracuse Divisions

MADE BY: J. McCool

DATE: 09/2024

CHECKED BY: J. C.

DATE: 10/4/24

SUBJECT: WZTC

SHEET # 1 **OF** 1

ITEM 619.0101 - BASIC WORK ZONE TRAFFIC CONTROL (DAILY OPERATIONS) (LS)



PROJECT: Installation of Pavement Markings at Various
Locations in the Buffalo and Syracuse Divisions

MADE BY: J. McCool

DATE: 09/2024

CHECKED BY: J.C.

DATE: 10/4/24

SUBJECT: Nighttime Operations

SHEET # 1 **OF** 1

ITEM 619.24 - NIGHTTIME OPERATIONS (LS)

1 LS



PROJECT: Installation of Pavement Markings at Various
Locations in the Buffalo and Syracuse Divisions

MADE BY: J. McCool

DATE: 09/2024

CHECKED BY: JC

DATE: 10/4/24

SUBJECT: Cleaning and Prep of Pavement

SHEET # 1 **OF** 1

ITEM 635.01030625 - CLEANING AND PREPARATION OF PAVEMENT SURFACES - 6" WIDTH LINES (LF)

Item is to be used A.O.B.E.

SAY: 1,000 LF

PROJECT: Installation of Pavement Markings at Various MADE BY: J. McCool DATE: 09/2024
Locations in the Buffalo and Syracuse Divisions CHECKED BY: JC DATE: 10/4/24

SUBJECT: Cleaning and Prep of Pavement - Letters SHEET # 1 OF 1

ITEM 635.0203 - CLEANING AND PREPARATION OF PAVEMENT SURFACES - LETTERS (EA)

Mainline MP 419.60 - MP 430.30

1 "E"	1 "O"
1 "X"	1 "N"
1 "I"	1 "L"
1 "T"	1 "Y"
8 total letters	

Interchange 50A

1 "O"
1 "N"
1 "L"
1 "Y"
4 total letters

Interchange 52A

16 "O"
16 "N"
16 "L"
16 "Y"
64 total letters

Interchange 55

1 "O"
1 "N"
1 "L"
1 "Y"
4 total letters

SAY: 80 EA

PROJECT: Installation of Pavement Markings at Various MADE BY: J. McCool DATE: 09/2024
Locations in the Buffalo and Syracuse Divisions CHECKED BY: JC DATE: 10/4/2024

SUBJECT: Cleaning and Prep of Pavement - Symbols SHEET # 1 OF 1

ITEM 635.0303--25 - CLEANING AND PREPARATION OF PAVEMENT SURFACES - SYMBOLS (EA)

Interchange 50A

2 Left Turn Arrows

Interchange 52A

8 Left Turn Arrows

8 Right Turn Arrows

4 Left/Straight Arrows

4 Right/Straight Arrows

Interchange 55

2 Straight Arrows

2 Right/Straight Arrows

Mainline MP 419.60 - 430.30

2 Lane Reduction Arrows

1 Diverge Arrow

SAY: 33 EA



PROJECT: Installation of Pavement Markings at Various
Locations in the Buffalo and Syracuse Divisions

MADE BY: J. McCool

DATE: 09/2024

CHECKED BY: JC

DATE: 10/4/24

SUBJECT: Misc. Abrading of Epoxy Stripes

SHEET # 1 **OF** 1

ITEM 635.0402--25 - MISCELLANEOUS ABRADING OF EPOXY PAVEMENT STRIPES (LF)

Item is to be used A.O.B.E.

SAY: 1,000 LF

PROJECT: Installation of Pavement Markings at Various **MADE BY:** J. McCool **DATE:** 09/2024
Locations in the Buffalo and Syracuse Divisions **CHECKED BY:** JC **DATE:** 10/4/24

SUBJECT: Diamond Grinding **SHEET #** 1 **OF** 2

ITEM 635.04030225 - RECESS DIAMOND GRINDING FOR INLAID PAVEMENT MARKINGS (LF)

Mainline / Niagara Section - Buffalo Division

Grand Island North	504 LF
Grand Island South	504 LF
Ripley Terminus EB	504 LF
Ripley Terminus WB	504 LF
Lackawanna Terminus EB	504 LF
Lackawanna Terminus WB	504 LF
Williamsville Terminus EB	504 LF
Williamsville Terminus WB	504 LF
47/48 I-90 EB	504 LF
47/48 I-90 WB	504 LF
46/47 I-90 EB	504 LF
46/47 I-90 WB	504 LF
45/46 I-90 EB	504 LF
45/46 I-90 WB	504 LF

Buffalo Division Total: 7,056

PROJECT: Installation of Pavement Markings at Various **MADE BY:** J. McCool **DATE:** 09/2024
Locations in the Buffalo and Syracuse Divisions **CHECKED BY:** JC **DATE:** 10/4/24
SUBJECT: Diamond Grinding **SHEET #** 2 **OF** 2

ITEM 635.04030225 - RECESS DIAMOND GRINDING FOR INLAID PAVEMENT MARKINGS (LF)

Mainline - Syracuse Division

44/45 I-90 EB	1,008 LF
44/45 I-90 WB	1,008 LF
43/44 I-90 EB	504 LF
43/44 I-90 WB	504 LF
39/40 I-90 EB	504 LF
39/40 I-90 WB	504 LF
38/39 I-90 EB	504 LF
38/39 I-90 WB	504 LF
36/37 I-90 EB	354 LF
36/37 I-90 WB	454 LF

Syracuse Division Total: 5,848

$7,056 + 5,848 = 12,904$

$12,904 \times 5\% = 13,555$

SAY: 13,555 LF

PROJECT: Installation of Pavement Markings at Various
Locations in the Buffalo and Syracuse Divisions

MADE BY: J. McCool

DATE: 09/2024

CHECKED BY: JC

DATE: 10/4/24

SUBJECT: White Epoxy Stripe

SHEET # 1 **OF** 1

ITEM 685.0106--25 - WHITE EPOXY REFLECTORIZED PAVEMENT STRIPES 6 INCH X 15 MILS (LF)

All measurements were taken using Google Earth

<u>Location</u>		
Interchange 50	5,497	LF
Interchange 50A	5,560	LF
Interchange 52A	12,791	LF
Interchange 53	19,224	LF
Interchange 54	14,174	LF
Interchange 55	19,158	LF
Gantry Stay-in-Lane (Buffalo)	2,280	LF
Gantry Stay-in-Lane (Syracuse)	1,110	LF
	79,794	LF

79,794 x 5% = 83,746

SAY: 83,746 LF



PROJECT: Installation of Pavement Markings at Various
Locations in the Buffalo and Syracuse Divisions

MADE BY: J. McCool

DATE: 09/2024

CHECKED BY: JC

DATE: 10/4/2024

SUBJECT: Yellow Epoxy Stripe

SHEET # 1 OF 1

ITEM 685.0206--25 - YELLOW EPOXY REFLECTORIZED PAVEMENT STRIPES 6 INCH X 15 MILS (LF)

All measurements were taken using Google Earth

Location

Interchange 50	3,717	LF
Interchange 50A	1,764	LF
Interchange 52A	2,901	LF
Interchange 53	11,637	LF
Interchange 54	6,218	LF
Interchange 55	10,622	LF
	<u>36,859</u>	LF

36,859 x 5% = 38,715

SAY: 38,715 LF



PROJECT: Installation of Pavement Markings at Various
Locations in the Buffalo and Syracuse Divisions

MADE BY: J. McCool

DATE: 09/2024

CHECKED BY: JC

DATE: 10/4/24

SUBJECT: Interchange 50 (MP 420.34)
White/Yellow Epoxy Stripes

SHEET # 1 OF 1

White

I-90 EB to I-290 WB Ramp 3,344

Gores $306 + 238 = 544 \times 2 = 1,088$

Skip $3,119 + 607 + 229 + 305 = 4,260 / 4 = 1,065$

$3,344 + 1,088 + 1,065 = 5,497$

Yellow

I-90 EB to I-290 WB Ramp 3,717

3,717



PROJECT: Installation of Pavement Markings at Various
Locations in the Buffalo and Syracuse Divisions

MADE BY: J. McCool

DATE: 09/2024

CHECKED BY: JC

DATE: 10/4/24

SUBJECT: Interchange 50A (MP 420.70)
White/Yellow Epoxy Stripes

SHEET # 1 OF 1

White

WB Accel	1,963
EB Decel	$1,988 + 155 = 2,143$
Gores	$197 + 291 = 488 \times 2 = 976$
Crosswalks	$165 + 185 = 350$
Stop Bar	$32 \times 4 = 128$
	$1,963 + 2,143 + 976 + 350 + 128 = \mathbf{5,560}$

Yellow

EB Decel	1,148
WB Accel	616
	$1,148 + 616 = \mathbf{1,764}$

PROJECT: Installation of Pavement Markings at Various **MADE BY:** J. McCool **DATE:** 09/2024
Locations in the Buffalo and Syracuse Divisions **CHECKED BY:** JC **DATE:** 10/4/24
SUBJECT: Interchange 52A (MP 424.92) **SHEET #** 1 **OF** 1
White/Yellow Epoxy Stripes

White

WB Decel	$2,211 + 83 + 85 = 2,379$
WB Accel	1,835
EB Decel	$2,164 + 94 + 95 = 2,353$
EB Accel	1,774
Gores	$368 + 186 + 583 + 204 = 1,341 \times 2 = 2,682$
Skip	$773 + 777 + 673 + 673 = 2,896 / 4 = 724$
Crosswalks	$170 + 152 + 165 + 185 = 672$
Stop Bars	$50 + 43 = 93 \times 4 = 372$
	$2,379 + 1,835 + 2,353 + 1,774 + 2,682 + 724 + 672 + 372 = \mathbf{12,791}$

Yellow

WB Decel	977
WB Accel	370
EB Decel	995
EB Accel	559
	$977 + 370 + 995 + 559 = \mathbf{2,901}$

PROJECT: Installation of Pavement Markings at Various **MADE BY:** J. McCool **DATE:** 09/2024
Locations in the Buffalo and Syracuse Divisions **CHECKED BY:** JC **DATE:** 10/4/24
SUBJECT: Interchange 53 (MP 426.17) **SHEET #** 1 **OF** 1
White/Yellow Epoxy Stripes

White

WB Decel	$388 + 331 + 1,433 + 1,386 = 3,538$
WB Accel	1,689
EB Decel	$1,525 + 255 + 1,119 + 2,099 = 4,998$
EB Accel	2,710
Gores	$389 + 326 + 389 + 341 + 284 + 287 + 234 = 2,250 \times 2 = 4,500$
Skip	$402 + 2,146 + 1,688 + 2,917 = 7,153 / 4 = 1,789$
	$3,538 + 1,689 + 4,998 + 2,710 + 4,500 + 1,789 = \mathbf{19,224}$

Yellow

WB Decel	5,170 (Shoulder stripe - 1,378 ft, angled stripes - 3,792 ft)
EB Decel	2,441
EB Accel	2,694
	$5,170 + 1,332 + 2,441 + 2,694 = \mathbf{11,637}$



PROJECT: Installation of Pavement Markings at Various
Locations in the Buffalo and Syracuse Divisions

MADE BY: J. McCool

DATE: 09/2024

CHECKED BY: JC

DATE: 10/4/24

SUBJECT: Interchange 54 (MP 427.94)
White/Yellow Epoxy Stripes

SHEET # 1 OF 1

White

WB Decel	$2,623 + 280 = 2,903$
WB Accel	3,140
EB Decel	2,188
EB Accel	1,470
Gores	$186 + 190 + 303 + 154 + 244 + 289 + 355 = 1,721 \times 2 = 3,442$
Skip	$83 + 211 + 714 + 771 + 2,345 = 4,124 / 4 = 1,031$
	$2,903 + 3,140 + 2,188 + 1,470 + 3,442 + 1,031 = \mathbf{14,174}$

Yellow

WB Decel	2,214
EB Decel	758
EB Accel	591
	$2,214 + 2,655 + 758 + 591 = \mathbf{6,218}$



PROJECT: Installation of Pavement Markings at Various
Locations in the Buffalo and Syracuse Divisions

MADE BY: J. McCool

DATE: 09/2024

CHECKED BY: JC

DATE: 10/4/24

SUBJECT: Interchange 55 (MP 429.47)
White/Yellow Epoxy Stripes

SHEET # 1 OF 1

White

WB Decel	$1,579 + 1,360 + 489 + 184 = 3,612$
WB Accel	$1,357 + 1,599 + 279 = 3,235$
EB Decel	$1,717 + 245 + 94 + 811 + 320 + 233 = 3,420$
EB Accel	$1,592 + 1,180 + 971 = 3,743$
Gores	$58 + 26 + 26 + 16 + 32 + 214 + 130 + 192 + 281 + 329 + 132 + 230 + 300 = 2,246$ $2,246 \times 2 = 4,492$
Stop Bars	$40 + 15 + 15 + 20 = 90 \times 4 = 360$
Ramp Arrows	$4 \times 74 = 296$
	$3,612 + 3,235 + 3,420 + 3,743 + 4,492 + 360 + 296 = \mathbf{19,158}$

Yellow

WB Decel	$1,515 + 1,363 = 2,878$
WB Accel	$1,208 + 1,530 = 2,738$
EB Decel	$1,687 + 747 = 2,434$
EB Accel	$1,480 + 1,092 = 2,572$
	$2,878 + 2,738 + 2,434 + 2,572 = \mathbf{10,622}$

PROJECT: Installation of Pavement Markings at Various MADE BY: J. McCool DATE: 09/2024
Locations in the Buffalo and Syracuse Divisions CHECKED BY: JC DATE: 10/4/24

SUBJECT: White Pavement Letters SHEET # 1 OF 1

ITEM 685.1306--25 - WHITE EPOXY REFLECTORIZED PAVEMENT LETTERS (EA)

Mainline MP 419.60 - MP 430.30

1 "E"	1 "O"
1 "X"	1 "N"
1 "I"	1 "L"
1 "T"	1 "Y"
8 total letters	

Interchange 50A

1 "O"
1 "N"
1 "L"
1 "Y"
4 total letters

Interchange 52A

16 "O"
16 "N"
16 "L"
16 "Y"
64 total letters

Interchange 55

1 "O"
1 "N"
1 "L"
1 "Y"
4 total letters

SAY: 80 EA

PROJECT: Installation of Pavement Markings at Various MADE BY: J. McCool DATE: 09/2024
Locations in the Buffalo and Syracuse Divisions CHECKED BY: JC DATE: 10/4/24

SUBJECT: White Pavement Symbols SHEET # 1 OF 1

ITEM 685.1406--25 - WHITE EPOXY REFLECTORIZED PAVEMENT SYMBOLS (EA)

Interchange 50A

2 Left Turn Arrows

Interchange 52A

8 Left Turn Arrows

8 Right Turn Arrows

4 Left/Straight Arrows

4 Right/Straight Arrows

Interchange 55

2 Straight Arrows

2 Right/Straight Arrows

Mainline MP 419.60 - 430.30

2 Lane Reduction Arrows

1 Diverge Arrow

SAY: 33 EA



PROJECT: Installation of Pavement Markings at Various
Locations in the Buffalo and Syracuse Divisions

MADE BY: J. McCool

DATE: 09/2024

CHECKED BY: JC

DATE: 10/4/24

SUBJECT: Black Pavement Markings

SHEET # 1 **OF** 1

ITEM 685.15----25 - BLACK EPOXY PAVEMENT MARKINGS (LF)

MP 419.60 - MP 430.30 14,652 LF

MP N0.00 - MP N21.20 37,092 LF

14,652 + 37,092 = 51,744

51,744 x 5% = 54,335

SAY: 54,335 LF



PROJECT: Installation of Pavement Markings at Various
Locations in the Buffalo and Syracuse Divisions

MADE BY: J. McCool

DATE: 09/2024

CHECKED BY: JC

DATE: 10/4/24

SUBJECT: White Triple Drop Stripe

SHEET # 1 OF 1

ITEM 685.1707--25 - WHITE HIGHLY REFLECTORIZED TRIPLE DROP EPOXY PAVEMENT STRIPE (LF)

Mainline / Niagara Section

MP 320.70 - MP 327.54 90,288 LF

MP 419.60 - MP 430.30 165,792 LF

MP N0.00 - MP N21.40 297,264 LF

Gantry Stay-in-Lane (Buffalo) 7,056 LF

Gantry Stay-in-Lane (Syracuse) 5,848 LF

90,288 + 165,792 + 297,264 + 7,056 + 5,848 = 566,248

566,248 x 5% = 594,575

SAY: 594,575 LF



PROJECT: Installation of Pavement Markings at Various
Locations in the Buffalo and Syracuse Divisions

MADE BY: J. McCool

DATE: 09/2024

CHECKED BY: jc

DATE: 10/4/24

SUBJECT: Yellow Triple Drop Stripe

SHEET # 1 OF 1

ITEM 685.1708--25 - YELLOW HIGHLY REFLECTORIZED TRIPLE DROP EPOXY PAVEMENT STRIPE (LF)

Mainline / Niagara Section

MP 320.70 - MP 327.54 72,230 LF

MP 419.60 - MP 430.30 112,992 LF

MP N0.00 - MP N21.40 231,317 LF

$$72,230 \quad + \quad 112,992 \quad + \quad 231,317 \quad = \quad 416,539$$

$$416,539 \quad \times \quad 5\% \quad = \quad 437,375$$

SAY: 437,375 LF