

FOR INFORMATIONAL USE ONLY-DO NOT USE FOR BID PREPARATION

Department of Public Works Nassau County, N.Y.
 Bid Sheets for PIN 0761.69 / Contract H62153-15G

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ITEM NO.	ESTIMATED QUANTITIES				
619.01	1 LS	Basic Work Zone Traffic Control FOR: _____			
619.24	1 LS	Nighttime Operations (Entire Project) FOR: _____			
635.0103	346,150 LF	Cleaning And Preparation Of Pavement Surfaces - Lines FOR: _____			
635.0203	495 EA	Cleaning And Preparation Of Pavement Surfaces - Letters FOR: _____			
635.0303	1,259 EA	Cleaning And Preparation Of Pavement Surfaces - Symbols FOR: _____			
685.07200110	892,310 LF	White Epoxy ReflectORIZED Pavement Stripes - 20 MILS (Wet Night Visibility Spheres) FOR: _____			

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ITEM NO.	ESTIMATED QUANTITIES				
685.07200210	885 EA	White Epoxy ReflectORIZED Pavement Letters:20 MILS (Wet Night Visibility Spheres) FOR:_____			
685.07200310	2,054 EA	White Epoxy ReflectORIZED Pavement Symbols: 20 MILS (Wet Night Visibility Spheres) FOR:_____			
685.07200410	75,811 LF	White Epoxy ReflectORIZED Pavement Stripes - 20 MILS Cross Hatching (Wet Night Visibility Spheres) FOR:_____			
685.07200510	430,080 LF	White Epoxy ReflectORIZED Pavement Stripes - 20 MILS Special Markings (Wet Night Visibility Spheres) FOR:_____			
685.07200610	825,230 LF	Yellow Epoxy ReflectORIZED Pavement Stripes - 20 MILS (Wet Night Visibility Spheres) FOR:_____			

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ITEM NO.	ESTIMATED QUANTITIES				
685.07200710	72,760 LF	Yellow Epoxy ReflectORIZED Pavement Stripes - 20 MILS Cross Hatching (Wet Night Visibility Spheres) FOR: _____			
685.07200810	10 EA	White Epoxy ReflectORIZED Pavement Markings - 20 MILS Yield Line Symbol – Small - (Wet Night Visibility Spheres) FOR: _____			
685.07200910	12 EA	White Epoxy ReflectORIZED Pavement Markings - 20 MILS Yield Line Symbol – Large - (Wet Night Visibility Spheres) FOR: _____			
699.040001	1 LS	Mobilization FOR: _____			

FOR INFORMATIONAL USE ONLY-DO NOT USE FOR BID PREPARATION

H62153-15G: Pavement Marking Improvements Phase 15

PIN 0761.69

CONTRACTOR: _____

BY: _____

TITLE: _____

SIGNATURE: _____

DATE: _____

Nassau County Pavement Markings Phase 15
Nassau County Department of Public Works
NYSDOT PIN 0761.69 / H62153-15G

ESTIMATE OF QUANTITIES FOR NASSAU COUNTY PAVEMENT MARKING PHASE 15 AUGUST 2023		COUNTY OF NASSSAU DEPARTMENT OF PUBLIC WORKS 1194 PROSPECT AVENUE WESTBURY, NY 11590-2723	
ITEM NO.	GENERAL DESCRIPTION OF WORK	UNIT	QUANTITY
619.01	Work Zone Traffic Control	LS	1
619.24	Nighttime Operations	LS	1
635.0103	Cleaning And Preparation Of Pavement for Pavement Marking - Stripes	LF	346,150
635.0203	Cleaning And Preparation Of Pavement for Pavement Marking - Letters	EA	495
635.0303	Cleaning And Preparation Of Pavement for Pavement Marking - Symbols	EA	1,259
685.07200110	White Epoxy ReflectORIZED Pavement Stripes -20 mils (Wet Night Visibility Spheres)	LF	892,310
685.07200210	White Epoxy ReflectORIZED Pavement Letters -20 mils (Wet Night Visibility Spheres)	EA	885
685.07200310	White Epoxy ReflectORIZED Pavement Symbols -20 mils (Wet Night Visibility Spheres)	EA	2,054
685.07200410	White Epoxy ReflectORIZED Pavement Stripes -20 mils Cross Hatching (Wet Night Visibility Spheres) <i>(Parking Deliniation and Restriction, Chevron Markings)</i>	LF	75,811
685.07200510	White Epoxy ReflectORIZED Pavement Stripes -20 mils Special Markings (Wet Night Visibility Spheres) <i>(Crosswalk, Stop Lines, Grid Box, RXR)</i>	LF	430,080
685.07200610	Yellow Epoxy ReflectORIZED Pavement Stripes -20 mils (Wet Night Visibility Spheres)	LF	825,230
685.07200710	Yellow Epoxy ReflectORIZED Pavement Stripes -20 mils Cross Hatching (Wet Night Visibility Spheres)	LF	72,760
685.07200810	White Epoxy ReflectORIZED Pavement Markings Yield Line Symbols - Small - 20 mils (Wet Night Visibility Spheres)	EA	10
685.07200910	White Epoxy ReflectORIZED Pavement Markings Yield Line Symbols - Large - 20 mils (Wet Night Visibility Spheres)	EA	12
699.040001	Mobilization	LS	1

0761.69

NASSAU COUNTY PAVEMENT MARKING PHASE 15

LOCATION	ROAD NAME	FROM	TO	LENGTH (MILES)	FUNCTIONAL CLASS	NHS?
1	Babylon Turnpike	Nassau Rd Roosevelt	Merrick Road Merrick	2.61	16	N
2	Bellmore Avenue	NY 27 Bellmore	Jerusalem Avenue North Bellmore	1.94	16	N
3	Broadway	Woodmere Boulevard Woodmere	West Broadway Hewlett	0.84	16	N
4	Dogwod Avenue	Colonade Avenue Franklin Square	Nassau Boulevard Franklin Square	0.96	17	N
5	East Merrick Road	North Grove Street Valley Stream	Horton Avenue Lynbrook	0.50	16	N
6	Elmont Road	NYC Line Elmont	Village Avenue Elmont	1.04	16	N
7	Glen Cove Avenue	Craft Avenue Glen Cove	Mill Hill Road Glean Cove	0.60	16	N
8	Greenwich Street	Jerusalem Avenue Hempstead	Fulton Street Hempstead	0.48	16	N
9	Hempstead Avenue	Eagle Avenue West Hempstead	Woodfield Avenue Hempstead	1.39	16	N
10	Horton Avenue	Rockaway Avenue Valley Stream	Hendrickson Avenue Lynbrook	0.92	17	N
11	Jerusalem Avenue	Greenwich Street Hempstead	Vollkommer Place North Bellmore	3.77	16	N
12	Lattingtown Road	Dosoris Lane Glen Cove	Ludlam Road Locust Valley	2.24	16	N
13	Long Beach Boulevard	East Pake Avenue Long Beach	Railroad Place Island Park	0.61	16	N
14	Long Beach Road	Seaman Avenue Rockville Centre	Demot Avenue Rockville Centre	0.67	16	N
15	Long Beach Road	Mott Street Oceanside	Atlantic Avenue Oceanside	0.98	16	N
16	Marcus Avenue	New Hyde Park Road New Hyde Park	Hillside Avenue Herricks	0.78	16	N
17	Melville Road	Main Street Farmingdale	Suffolk County Line Farmingdale	0.63	16	N
18	Merrick Avenue	Southern State Parkway Merrick	North Jerusalem Avenue Merrick	0.60	16	N
19	Merrick Road	Newbridge Road Bellmore	Suffolk County Line Massapequa	5.97	16	N
20	Merrick Road	Oceanside Road Rockville Centre	Brookside Avenue Freeport	1.66	16	N
21	Mill Road	Brookfield Road Valley Stream	Sunrise Highway Valley Stream	0.82	16	N
22	Mill Road	West Broadway Hewlett	Peninsula Boulevard Woodmere	0.36	16	N
23	North Central Avenue	Merrick Avenue Valley Stream	Clarendon Drive Valley Stream	0.70	16	N
24	North Wantagh Avenue	NY 24 Levittown	NY 107 Bethpage	0.92	16	N
25	Newbridge Road	Merrick Road Bellmore	NY 105 North Bellmore	2.05	16	N
26	North Jerusalem Avenue	Jerusalem Avenue East Meadow	Sand Hill Road	3.53	16	N
27	North Village Avenue	Lakeview Avenue Rockville Centre	Allen Road Rockville Centre	1.40	16	N
28	Ocean Avenue	NY 27 Rockville Centre	Hempstead Avenue Rockville Centre	1.67	16	N
29	Old Country Road	Glen Cove Road Carle Place	Round Swamp Road Farmingdale	6.97	16	N
30	Peninsula Boulevard	Ocean Avenue Lynbrook	Lakeview Avenue Rockville Centre	0.55	14	Y
31	Peninsula Boulevard	Southern State Parkway Hempstead	NY 24 Hempstead	1.69	14	Y
32	Peninsula Boulevard	Nieman Avenue Lynbrook	Ocean Avenue Lynbrook	1.05	14	Y
33	Peninsula Boulevard	Rockaway Turnpike Cedarhurst	Rockaway Avenue Hewlett	2.94	14	Y
34	Plainview Road	NY 135 Hicksville	Old Bthpage Road Plainview	1.46	16	N

Note: Endpoints are included in work zone/estimates except where endpoints are NYS Routes. For any intersection that includes NYS Routes, the work zone will NOT extend into NYS Right-of-Way. In cases where work zones intersect, the intersection was only calculated once in estimates. In cases where work zones intersect with NYS Right-of-Way, those intersections were not included and NO work will extend into NYS Right-of-Way.

0761.69

NASSAU COUNTY PAVEMENT MARKING PHASE 15

LOCATION	ROAD NAME	FROM	TO	LENGTH (MILES)	FUNCTIONAL CLASS	NHS?
35	Rockaway Avenue	Broadway Hewlett	West Merrick Road Valley Stream	1.58	16	N
36	Rockaway Parkway	West Merrick Road Valley Stream	West Fenimore Road Valley Stream	0.60	16	N
37	Rockaway Turnpike	West Broadway Cedarhurst	Peninsula Boulevard Cedarhurst	0.35	16	N
38	South Central Avenue	NY 27 Valley Stream	Merrick Road Valley Stream	0.38	16	N
39	South Main Street	Cow Meadow Park Freeport	Broadway Freeport	1.56	16	N
40	Seamans Neck Road	New Place Levittown	NY 107 Levittown	1.55	17	N
41	Sheridan Boulevard	NYC Border Inwood	Doughty Boulevard Inwood	0.96	16	N
42	Stewart Avenue	New Hyde Park Road Garden City	Tanners Pond Road Garden City	0.40	16	N
43	Stewart Avenue	NY 24 Plainedge	South Oyster Bay Road Hicksville	3.17	16	N
44	Stewart Avenue	Salisbury Park Drive Salisbury	NY 106 Hicksville	2.24	16	N
45	Uniondale Avenue	Nassau Road Uniondale	NY 24 Uniondale	2.02	16	N
46	West Merrick Road	Hook Creek Boulevard Valley Stream	North Grove Street Valley Stream	1.75	16	N
47	Wantagh Avenue	NY 27 Wantagh	Sarah Drive Levittown	2.20	16	N
48	Willis Avenue	IU Willets Road Albertson	Garden Drive Albertson	0.32	16	N
49	Woodbury Road	NY 25 Woodbury	Suffolk County Line Woodbury	1.73	16	N
50	Woodbury Road	Bay Avenue Hicksville	South Oyster Bay Road Plainview	1.31	16	N
51	Woodfield Road	Lakeview Avenue Lakeview	Hempstead Avenue West Hempstead	2.46	16	N

Note: Endpoints are included in work zone/estimates except where endpoints are NYS Routes. For any intersection that includes NYS Routes, the work zone will NOT extend into NYS Right-of-Way. In cases where work zones intersect, the intersection was only calculated once in estimates. In cases where work zones intersect with NYS Right-of-Way, those intersections were not included and NO work will extend into NYS Right-of-Way.

BABYLON TURNPIKE - Minor Arterial, FC #16			
START	END	ITEM 685.07200XX10 - EPOXY REFLECTORIZED PAVEMENT MARKINGS - 20 MILS (WET NIGHT VISIBILITY SPHERES)	QUANTITY
MP 0.00 Nassau Road Roosevelt	MP 2.61 Merrick Road Merrick	685.07200110 - White Epoxy ReflectORIZED Pavement Stripes	24,500
		685.07200210 - White Epoxy ReflectORIZED Pavement Stripes - Letters	0
		685.07200310 - White Epoxy ReflectORIZED Pavement Stripes - Symbols	19
		685.07200410 - White Epoxy ReflectORIZED Pavement Stripes - Cross Hatching	5,200
		685.07200510 - White Epoxy ReflectORIZED Pavement Stripes - Special Markings	7,120
		685.07200610 - Yellow Epoxy ReflectORIZED Pavement Stripes - Stripes	23,750
Length (Miles):	2.61 Miles	685.07200710 - Yellow Epoxy ReflectORIZED Pavement Stripes - Cross Hatching	500
		685.07200810 - White Epoxy ReflectORIZED Pavement Stripes - Yield Line Symbols - Small	0
		685.07200910 - White Epoxy ReflectORIZED Pavement Stripes - Yield Line Symbols - Large	0

BELLMORE AVENUE - Minor Arterial, FC #16			
START	END	ITEM 685.07200XX10 - EPOXY REFLECTORIZED PAVEMENT MARKINGS - 20 MILS (WET NIGHT VISIBILITY SPHERES)	QUANTITY
MP 0.37 NY 27 Bellmore	MP 2.31 Jerusalem Avenue North Bellmore	685.07200110 - White Epoxy ReflectORIZED Pavement Stripes	20,860
		685.07200210 - White Epoxy ReflectORIZED Pavement Stripes - Letters	0
		685.07200310 - White Epoxy ReflectORIZED Pavement Stripes - Symbols	0
		685.07200410 - White Epoxy ReflectORIZED Pavement Stripes - Cross Hatching	2,390
		685.07200510 - White Epoxy ReflectORIZED Pavement Stripes - Special Markings	9,100
		685.07200610 - Yellow Epoxy ReflectORIZED Pavement Stripes - Stripes	18,200
Length (Miles):	1.94 Miles	685.07200710 - Yellow Epoxy ReflectORIZED Pavement Stripes - Cross Hatching	220
		685.07200810 - White Epoxy ReflectORIZED Pavement Stripes - Yield Line Symbols - Small	0
		685.07200910 - White Epoxy ReflectORIZED Pavement Stripes - Yield Line Symbols - Large	0

BROADWAY - Minor Arterial, FC #16			
START	END	ITEM 685.07200XX10 - EPOXY REFLECTORIZED PAVEMENT MARKINGS - 20 MILS (WET NIGHT VISIBILITY SPHERES)	QUANTITY
MP 2.37 Woodmere Boulevard Woodmere	MP 3.21 West Broadway Hewlett	685.07200110 - White Epoxy ReflectORIZED Pavement Stripes	5,750
		685.07200210 - White Epoxy ReflectORIZED Pavement Stripes - Letters	0
		685.07200310 - White Epoxy ReflectORIZED Pavement Stripes - Symbols	16
		685.07200410 - White Epoxy ReflectORIZED Pavement Stripes - Cross Hatching	530
		685.07200510 - White Epoxy ReflectORIZED Pavement Stripes - Special Markings	6,480
		685.07200610 - Yellow Epoxy ReflectORIZED Pavement Stripes - Stripes	7,000
Length (Miles):	0.84 Miles	685.07200710 - Yellow Epoxy ReflectORIZED Pavement Stripes - Cross Hatching	0
		685.07200810 - White Epoxy ReflectORIZED Pavement Stripes - Yield Line Symbols - Small	0
		685.07200910 - White Epoxy ReflectORIZED Pavement Stripes - Yield Line Symbols - Large	0

DOGWOOD AVENUE - Urban Collector FC #17			
START	END	ITEM 685.07200XX10 - EPOXY REFLECTORIZED PAVEMENT MARKINGS - 20 MILS (WET NIGHT VISIBILITY SPHERES)	QUANTITY
MP 0.53 Colonade Avenue Franklin Square	MP 1.49 Nassau Boulevard Franklin Square	685.07200110 - White Epoxy ReflectORIZED Pavement Stripes	3,900
		685.07200210 - White Epoxy ReflectORIZED Pavement Stripes - Letters	0
		685.07200310 - White Epoxy ReflectORIZED Pavement Stripes - Symbols	0
		685.07200410 - White Epoxy ReflectORIZED Pavement Stripes - Cross Hatching	0
		685.07200510 - White Epoxy ReflectORIZED Pavement Stripes - Special Markings	0
		685.07200610 - Yellow Epoxy ReflectORIZED Pavement Stripes - Stripes	8,040
Length (Miles):	0.96 Miles	685.07200710 - Yellow Epoxy ReflectORIZED Pavement Stripes - Cross Hatching	0
		685.07200810 - White Epoxy ReflectORIZED Pavement Stripes - Yield Line Symbols - Small	0
		685.07200910 - White Epoxy ReflectORIZED Pavement Stripes - Yield Line Symbols - Large	0

EAST MERRICK ROAD - Minor Arterial, FC #16			
START	END	ITEM 685.07200XX10 - EPOXY REFLECTORIZED PAVEMENT MARKINGS - 20 MILS (WET NIGHT VISIBILITY SPHERES)	QUANTITY
MP 1.75 North Grove Street Valley Stream	MP 2.25 Horton Avenue Lynbrook	685.07200110 - White Epoxy ReflectORIZED Pavement Stripes	6,600
		685.07200210 - White Epoxy ReflectORIZED Pavement Stripes - Letters	0
		685.07200310 - White Epoxy ReflectORIZED Pavement Stripes - Symbols	2
		685.07200410 - White Epoxy ReflectORIZED Pavement Stripes - Cross Hatching	600
		685.07200510 - White Epoxy ReflectORIZED Pavement Stripes - Special Markings	3,690
		685.07200610 - Yellow Epoxy ReflectORIZED Pavement Stripes - Stripes	5,280
Length (Miles):	0.50 Miles	685.07200710 - Yellow Epoxy ReflectORIZED Pavement Stripes - Cross Hatching	0
		685.07200810 - White Epoxy ReflectORIZED Pavement Stripes - Yield Line Symbols - Small	0
		685.07200910 - White Epoxy ReflectORIZED Pavement Stripes - Yield Line Symbols - Large	0

ELMONT ROAD - Minor Arterial, FC #16			
START	END	ITEM 685.07200XX10 - EPOXY REFLECTORIZED PAVEMENT MARKINGS - 20 MILS (WET NIGHT VISIBILITY SPHERES)	QUANTITY
MP 0.00 NYC Border Elmont	MP 1.04 Village Avenue Elmont	685.07200110 - White Epoxy ReflectORIZED Pavement Stripes	7,690
		685.07200210 - White Epoxy ReflectORIZED Pavement Stripes - Letters	0
		685.07200310 - White Epoxy ReflectORIZED Pavement Stripes - Symbols	36
		685.07200410 - White Epoxy ReflectORIZED Pavement Stripes - Cross Hatching	1,510
		685.07200510 - White Epoxy ReflectORIZED Pavement Stripes - Special Markings	6,800
		685.07200610 - Yellow Epoxy ReflectORIZED Pavement Stripes - Stripes	7,350
Length (Miles):	1.04 Miles	685.07200710 - Yellow Epoxy ReflectORIZED Pavement Stripes - Cross Hatching	0
		685.07200810 - White Epoxy ReflectORIZED Pavement Stripes - Yield Line Symbols - Small	0
		685.07200910 - White Epoxy ReflectORIZED Pavement Stripes - Yield Line Symbols - Large	0

GLEN COVE AVENUE - Minor Arterial, FC #16			
START	END	ITEM 685.07200XX10 - EPOXY REFLECTORIZED PAVEMENT MARKINGS - 20 MILS (WET NIGHT VISIBILITY SPHERES)	QUANTITY
MP 2.85 Craft Avenue Glen Cove	MP 3.45 Mill Hill Road Glen Cove	685.07200110 - White Epoxy ReflectORIZED Pavement Stripes	7,710
		685.07200210 - White Epoxy ReflectORIZED Pavement Stripes - Letters	0
		685.07200310 - White Epoxy ReflectORIZED Pavement Stripes - Symbols	38
		685.07200410 - White Epoxy ReflectORIZED Pavement Stripes - Cross Hatching	0
		685.07200510 - White Epoxy ReflectORIZED Pavement Stripes - Special Markings	7,200
		685.07200610 - Yellow Epoxy ReflectORIZED Pavement Stripes - Stripes	6,340
Length (Miles):	0.60 Miles	685.07200710 - Yellow Epoxy ReflectORIZED Pavement Stripes - Cross Hatching	600
		685.07200810 - White Epoxy ReflectORIZED Pavement Stripes - Yield Line Symbols - Small	0
		685.07200910 - White Epoxy ReflectORIZED Pavement Stripes - Yield Line Symbols - Large	0

GREENWICH STREET - Minor Arterial, FC #16			
START	END	ITEM 685.07200XX10 - EPOXY REFLECTORIZED PAVEMENT MARKINGS - 20 MILS (WET NIGHT VISIBILITY SPHERES)	QUANTITY
MP 3.98 Jerusalem Avenue Hempstead	MP 4.64 Front Street Hempstead	685.07200110 - White Epoxy ReflectORIZED Pavement Stripes	8,000
		685.07200210 - White Epoxy ReflectORIZED Pavement Stripes - Letters	0
		685.07200310 - White Epoxy ReflectORIZED Pavement Stripes - Symbols	3
		685.07200410 - White Epoxy ReflectORIZED Pavement Stripes - Cross Hatching	560
		685.07200510 - White Epoxy ReflectORIZED Pavement Stripes - Special Markings	9,180
		685.07200610 - Yellow Epoxy ReflectORIZED Pavement Stripes - Stripes	4,700
Length (Miles):	0.48 Miles	685.07200710 - Yellow Epoxy ReflectORIZED Pavement Stripes - Cross Hatching	0
		685.07200810 - White Epoxy ReflectORIZED Pavement Stripes - Yield Line Symbols - Small	0
		685.07200910 - White Epoxy ReflectORIZED Pavement Stripes - Yield Line Symbols - Large	0

HEMPSTEAD AVENUE - Minor Arterial, FC #16			
START	END	ITEM 685.07200XX10 - EPOXY REFLECTORIZED PAVEMENT MARKINGS - 20 MILS (WET NIGHT VISIBILITY SPHERES)	QUANTITY
MP 2.33 Eagle Avenue West Hempstead	MP 3.72 Woodfield Avenue Hempstead	685.07200110 - White Epoxy ReflectORIZED Pavement Stripes	10,780
		685.07200210 - White Epoxy ReflectORIZED Pavement Stripes - Letters	37
		685.07200310 - White Epoxy ReflectORIZED Pavement Stripes - Symbols	49
		685.07200410 - White Epoxy ReflectORIZED Pavement Stripes - Cross Hatching	3,340
		685.07200510 - White Epoxy ReflectORIZED Pavement Stripes - Special Markings	15,300
		685.07200610 - Yellow Epoxy ReflectORIZED Pavement Stripes - Stripes	11,910
Length (Miles):	1.39 Miles	685.07200710 - Yellow Epoxy ReflectORIZED Pavement Stripes - Cross Hatching	0
		685.07200810 - White Epoxy ReflectORIZED Pavement Stripes - Yield Line Symbols - Small	0
		685.07200910 - White Epoxy ReflectORIZED Pavement Stripes - Yield Line Symbols - Large	4

HORTON AVENUE - Urban Collector FC #17			
START	END	ITEM 685.07200XX10 - EPOXY REFLECTORIZED PAVEMENT MARKINGS - 20 MILS (WET NIGHT VISIBILITY SPHERES)	QUANTITY
MP 0.00 Rockaway Avenue Valley Stream	MP 0.92 Hendickson Avenue Lynbrook	685.07200110 - White Epoxy ReflectORIZED Pavement Stripes	8,250
		685.07200210 - White Epoxy ReflectORIZED Pavement Stripes - Letters	0
		685.07200310 - White Epoxy ReflectORIZED Pavement Stripes - Symbols	0
		685.07200410 - White Epoxy ReflectORIZED Pavement Stripes - Cross Hatching	970
		685.07200510 - White Epoxy ReflectORIZED Pavement Stripes - Special Markings	1,860
		685.07200610 - Yellow Epoxy ReflectORIZED Pavement Stripes - Stripes	7,880
Length (Miles):	0.92 Miles	685.07200710 - Yellow Epoxy ReflectORIZED Pavement Stripes - Cross Hatching	0
		685.07200810 - White Epoxy ReflectORIZED Pavement Stripes - Yield Line Symbols - Small	0
		685.07200910 - White Epoxy ReflectORIZED Pavement Stripes - Yield Line Symbols - Large	0

JERUSALEM AVENUE - Minor Arterial, FC #16			
START	END	ITEM 685.07200XX10 - EPOXY REFLECTORIZED PAVEMENT MARKINGS - 20 MILS (WET NIGHT VISIBILITY SPHERES)	QUANTITY
MP 0.00 Greenwich Street Hempstead	MP 3.77 Vollkommer Place North Bellmore	685.07200110 - White Epoxy ReflectORIZED Pavement Stripes	41,400
		685.07200210 - White Epoxy ReflectORIZED Pavement Stripes - Letters	44
		685.07200310 - White Epoxy ReflectORIZED Pavement Stripes - Symbols	40
		685.07200410 - White Epoxy ReflectORIZED Pavement Stripes - Cross Hatching	5,100
		685.07200510 - White Epoxy ReflectORIZED Pavement Stripes - Special Markings	20,100
		685.07200610 - Yellow Epoxy ReflectORIZED Pavement Stripes - Stripes	36,710
Length (Miles):	3.77 Miles	685.07200710 - Yellow Epoxy ReflectORIZED Pavement Stripes - Cross Hatching	2,960
		685.07200810 - White Epoxy ReflectORIZED Pavement Stripes - Yield Line Symbols - Small	0
		685.07200910 - White Epoxy ReflectORIZED Pavement Stripes - Yield Line Symbols - Large	0

LATTINGTOWN ROAD - Minor Arterial, FC #16			
START	END	ITEM 685.07200XX10 - EPOXY REFLECTORIZED PAVEMENT MARKINGS - 20 MILS (WET NIGHT VISIBILITY SPHERES)	QUANTITY
MP 0.00 Dosoris Lane Glen Cove	MP 2.24 Ludlam Road Locust Valley	685.07200110 - White Epoxy ReflectORIZED Pavement Stripes	21,890
		685.07200210 - White Epoxy ReflectORIZED Pavement Stripes - Letters	0
		685.07200310 - White Epoxy ReflectORIZED Pavement Stripes - Symbols	4
		685.07200410 - White Epoxy ReflectORIZED Pavement Stripes - Cross Hatching	150
		685.07200510 - White Epoxy ReflectORIZED Pavement Stripes - Special Markings	750
		685.07200610 - Yellow Epoxy ReflectORIZED Pavement Stripes - Stripes	22,080
Length (Miles):	2.24 Miles	685.07200710 - Yellow Epoxy ReflectORIZED Pavement Stripes - Cross Hatching	0
		685.07200810 - White Epoxy ReflectORIZED Pavement Stripes - Yield Line Symbols - Small	0
		685.07200910 - White Epoxy ReflectORIZED Pavement Stripes - Yield Line Symbols - Large	0

LONG BEACH BOULEVARD - Minor Arterial, FC #16			
START	END	ITEM 685.07200XX10 - EPOXY REFLECTORIZED PAVEMENT MARKINGS - 20 MILS (WET NIGHT VISIBILITY SPHERES)	QUANTITY
MP 0.00 East Park Avenue Long Beach	MP 0.61 Railroad Place Island Park	685.07200110 - White Epoxy ReflectORIZED Pavement Stripes	9,670
		685.07200210 - White Epoxy ReflectORIZED Pavement Stripes - Letters	0
		685.07200310 - White Epoxy ReflectORIZED Pavement Stripes - Symbols	30
		685.07200410 - White Epoxy ReflectORIZED Pavement Stripes - Cross Hatching	0
		685.07200510 - White Epoxy ReflectORIZED Pavement Stripes - Special Markings	4,500
		685.07200610 - Yellow Epoxy ReflectORIZED Pavement Stripes - Stripes	6,450
Length (Miles):	0.61 Miles	685.07200710 - Yellow Epoxy ReflectORIZED Pavement Stripes - Cross Hatching	0
		685.07200810 - White Epoxy ReflectORIZED Pavement Stripes - Yield Line Symbols - Small	0
		685.07200910 - White Epoxy ReflectORIZED Pavement Stripes - Yield Line Symbols - Large	0

LONG BEACH ROAD - Minor Arterial, FC #16			
START	END	ITEM 685.07200XX10 - EPOXY REFLECTORIZED PAVEMENT MARKINGS - 20 MILS (WET NIGHT VISIBILITY SPHERES)	QUANTITY
MP 5.04 Seaman Avenue Rockville Centre	MP 5.41 Demot Avenue Rockville Centre	685.07200110 - White Epoxy ReflectORIZED Pavement Stripes	5,900
		685.07200210 - White Epoxy ReflectORIZED Pavement Stripes - Letters	0
		685.07200310 - White Epoxy ReflectORIZED Pavement Stripes - Symbols	0
		685.07200410 - White Epoxy ReflectORIZED Pavement Stripes - Cross Hatching	0
		685.07200510 - White Epoxy ReflectORIZED Pavement Stripes - Special Markings	0
		685.07200610 - Yellow Epoxy ReflectORIZED Pavement Stripes - Stripes	5,650
Length (Miles):	0.67 Miles	685.07200710 - Yellow Epoxy ReflectORIZED Pavement Stripes - Cross Hatching	0
		685.07200810 - White Epoxy ReflectORIZED Pavement Stripes - Yield Line Symbols - Small	0
		685.07200910 - White Epoxy ReflectORIZED Pavement Stripes - Yield Line Symbols - Large	0

LONG BEACH ROAD - Minor Arterial, FC #16			
START	END	ITEM 685.07200XX10 - EPOXY REFLECTORIZED PAVEMENT MARKINGS - 20 MILS (WET NIGHT VISIBILITY SPHERES)	QUANTITY
MP 2.40 Mott Street Oceanside	MP 3.38 Atlantic Avenue Oceanside	685.07200110 - White Epoxy ReflectORIZED Pavement Stripes	19,680
		685.07200210 - White Epoxy ReflectORIZED Pavement Stripes - Letters	0
		685.07200310 - White Epoxy ReflectORIZED Pavement Stripes - Symbols	0
		685.07200410 - White Epoxy ReflectORIZED Pavement Stripes - Cross Hatching	0
		685.07200510 - White Epoxy ReflectORIZED Pavement Stripes - Special Markings	0
		685.07200610 - Yellow Epoxy ReflectORIZED Pavement Stripes - Stripes	17,570
Length (Miles):	0.98 Miles	685.07200710 - Yellow Epoxy ReflectORIZED Pavement Stripes - Cross Hatching	0
		685.07200810 - White Epoxy ReflectORIZED Pavement Stripes - Yield Line Symbols - Small	0
		685.07200910 - White Epoxy ReflectORIZED Pavement Stripes - Yield Line Symbols - Large	0

MARCUS AVENUE- Minor Arterial, FC #16			
START	END	ITEM 685.07200XX10 - EPOXY REFLECTORIZED PAVEMENT MARKINGS - 20 MILS (WET NIGHT VISIBILITY SPHERES)	QUANTITY
MP 0.19 New Hyde Park Road New Hyde Park	MP 0.97 Hillside Avenue Herricks	685.07200110 - White Epoxy ReflectORIZED Pavement Stripes	15,180
		685.07200210 - White Epoxy ReflectORIZED Pavement Stripes - Letters	0
		685.07200310 - White Epoxy ReflectORIZED Pavement Stripes - Symbols	33
		685.07200410 - White Epoxy ReflectORIZED Pavement Stripes - Cross Hatching	1,520
		685.07200510 - White Epoxy ReflectORIZED Pavement Stripes - Special Markings	5,000
		685.07200610 - Yellow Epoxy ReflectORIZED Pavement Stripes - Stripes	13,000
Length (Miles):	0.78	685.07200710 - Yellow Epoxy ReflectORIZED Pavement Stripes - Cross Hatching	6,800
		685.07200810 - White Epoxy ReflectORIZED Pavement Stripes - Yield Line Symbols - Small	0
		685.07200910 - White Epoxy ReflectORIZED Pavement Stripes - Yield Line Symbols - Large	0

MELVILLE ROAD - Minor Arterial, FC #16			
START	END	ITEM 685.07200XX10 - EPOXY REFLECTORIZED PAVEMENT MARKINGS - 20 MILS (WET NIGHT VISIBILITY SPHERES)	QUANTITY
MP 0.00 Maint Street Farmingdale	MP 0.63 Suffolk County Border Farmingdale	685.07200110 - White Epoxy ReflectORIZED Pavement Stripes	5,680
		685.07200210 - White Epoxy ReflectORIZED Pavement Stripes - Letters	0
		685.07200310 - White Epoxy ReflectORIZED Pavement Stripes - Symbols	0
		685.07200410 - White Epoxy ReflectORIZED Pavement Stripes - Cross Hatching	1,500
		685.07200510 - White Epoxy ReflectORIZED Pavement Stripes - Special Markings	900
		685.07200610 - Yellow Epoxy ReflectORIZED Pavement Stripes - Stripes	5,580
Length (Miles):	0.63 Miles	685.07200710 - Yellow Epoxy ReflectORIZED Pavement Stripes - Cross Hatching	0
		685.07200810 - White Epoxy ReflectORIZED Pavement Stripes - Yield Line Symbols - Small	0
		685.07200910 - White Epoxy ReflectORIZED Pavement Stripes - Yield Line Symbols - Large	0

MERRICK AVENUE - Minor Arterial, FC #16			
START	END	ITEM 685.07200XX10 - EPOXY REFLECTORIZED PAVEMENT MARKINGS - 20 MILS (WET NIGHT VISIBILITY SPHERES)	QUANTITY
MP 2.39 Southern State Parkway Merrick	MP 2.99 North Jeruslam Avenue Merrick	685.07200110 - White Epoxy ReflectORIZED Pavement Stripes	6,780
		685.07200210 - White Epoxy ReflectORIZED Pavement Stripes - Letters	44
		685.07200310 - White Epoxy ReflectORIZED Pavement Stripes - Symbols	4
		685.07200410 - White Epoxy ReflectORIZED Pavement Stripes - Cross Hatching	880
		685.07200510 - White Epoxy ReflectORIZED Pavement Stripes - Special Markings	1,630
		685.07200610 - Yellow Epoxy ReflectORIZED Pavement Stripes - Stripes	6,230
Length (Miles):	0.60 Miles	685.07200710 - Yellow Epoxy ReflectORIZED Pavement Stripes - Cross Hatching	550
		685.07200810 - White Epoxy ReflectORIZED Pavement Stripes - Yield Line Symbols - Small	0
		685.07200910 - White Epoxy ReflectORIZED Pavement Stripes - Yield Line Symbols - Large	0

MERRICK ROAD - Minor Arterial, FC #16			
START	END	ITEM 685.07200XX10 - EPOXY REFLECTORIZED PAVEMENT MARKINGS - 20 MILS (WET NIGHT VISIBILITY SPHERES)	QUANTITY
MP 10.79 Newbridge Road Bellmore	MP 16.76 Suffolk County Border Massapequa	685.07200110 - White Epoxy ReflectORIZED Pavement Stripes	79,890
		685.07200210 - White Epoxy ReflectORIZED Pavement Stripes - Letters	160
		685.07200310 - White Epoxy ReflectORIZED Pavement Stripes - Symbols	90
		685.07200410 - White Epoxy ReflectORIZED Pavement Stripes - Cross Hatching	6,920
		685.07200510 - White Epoxy ReflectORIZED Pavement Stripes - Special Markings	46,470
		685.07200610 - Yellow Epoxy ReflectORIZED Pavement Stripes - Stripes	63,890
Length (Miles):	5.97Miles	685.07200710 - Yellow Epoxy ReflectORIZED Pavement Stripes - Cross Hatching	4,370
		685.07200810 - White Epoxy ReflectORIZED Pavement Stripes - Yield Line Symbols - Small	0
		685.07200910 - White Epoxy ReflectORIZED Pavement Stripes - Yield Line Symbols - Large	0

MERRICK ROAD - Minor Arterial, FC #16			
START	END	ITEM 685.07200XX10 - EPOXY REFLECTORIZED PAVEMENT MARKINGS - 20 MILS (WET NIGHT VISIBILITY SPHERES)	QUANTITY
MP 5.44 Oceanside Road Rockville Centre	MP 7.10 Brookside Avenue Freeport	685.07200110 - White Epoxy ReflectORIZED Pavement Stripes	21,920
		685.07200210 - White Epoxy ReflectORIZED Pavement Stripes - Letters	44
		685.07200310 - White Epoxy ReflectORIZED Pavement Stripes - Symbols	26
		685.07200410 - White Epoxy ReflectORIZED Pavement Stripes - Cross Hatching	1,900
		685.07200510 - White Epoxy ReflectORIZED Pavement Stripes - Special Markings	12,750
		685.07200610 - Yellow Epoxy ReflectORIZED Pavement Stripes - Stripes	17,530
Length (Miles):	0.50 Miles	685.07200710 - Yellow Epoxy ReflectORIZED Pavement Stripes - Cross Hatching	1,200
		685.07200810 - White Epoxy ReflectORIZED Pavement Stripes - Yield Line Symbols - Small	0
		685.07200910 - White Epoxy ReflectORIZED Pavement Stripes - Yield Line Symbols - Large	0

MILL ROAD - Minor Arterial, FC #16			
START	END	ITEM 685.07200XX10 - EPOXY REFLECTORIZED PAVEMENT MARKINGS - 20 MILS (WET NIGHT VISIBILITY SPHERES)	QUANTITY
MP 0.87 Brookfield Road Valley Stream	MP 1.69 NY 27 Valley Stream	685.07200110 - White Epoxy ReflectORIZED Pavement Stripes	70,780
		685.07200210 - White Epoxy ReflectORIZED Pavement Stripes - Letters	56
		685.07200310 - White Epoxy ReflectORIZED Pavement Stripes - Symbols	36
		685.07200410 - White Epoxy ReflectORIZED Pavement Stripes - Cross Hatching	430
		685.07200510 - White Epoxy ReflectORIZED Pavement Stripes - Special Markings	8,650
		685.07200610 - Yellow Epoxy ReflectORIZED Pavement Stripes - Stripes	9,780
Length (Miles):	0.82 Miles	685.07200710 - Yellow Epoxy ReflectORIZED Pavement Stripes - Cross Hatching	2,490
		685.07200810 - White Epoxy ReflectORIZED Pavement Stripes - Yield Line Symbols - Small	0
		685.07200910 - White Epoxy ReflectORIZED Pavement Stripes - Yield Line Symbols - Large	0

MILL ROAD - Minor Arterial, FC #16			
START	END	ITEM 685.07200XX10 - EPOXY REFLECTORIZED PAVEMENT MARKINGS - 20 MILS (WET NIGHT VISIBILITY SPHERES)	QUANTITY
MP 0.00 West Broadway Hewlet	MP 0.36 Peninsula Boulevard Woodmere	685.07200110 - White Epoxy ReflectORIZED Pavement Stripes	3,320
		685.07200210 - White Epoxy ReflectORIZED Pavement Stripes - Letters	0
		685.07200310 - White Epoxy ReflectORIZED Pavement Stripes - Symbols	2
		685.07200410 - White Epoxy ReflectORIZED Pavement Stripes - Cross Hatching	930
		685.07200510 - White Epoxy ReflectORIZED Pavement Stripes - Special Markings	500
		685.07200610 - Yellow Epoxy ReflectORIZED Pavement Stripes - Stripes	3,280
Length (Miles):	0.36 Miles	685.07200710 - Yellow Epoxy ReflectORIZED Pavement Stripes - Cross Hatching	0
		685.07200810 - White Epoxy ReflectORIZED Pavement Stripes - Yield Line Symbols - Small	0
		685.07200910 - White Epoxy ReflectORIZED Pavement Stripes - Yield Line Symbols - Large	0

NEWBRIDGE ROAD- Minor Arterial, FC #16			
START	END	ITEM 685.07200XX10 - EPOXY REFLECTORIZED PAVEMENT MARKINGS - 20 MILS (WET NIGHT VISIBILITY SPHERES)	QUANTITY
MP 0.00 Merrick Road Bellmore	MP 2.05 NY 105 North Bellmore	685.07200110 - White Epoxy ReflectORIZED Pavement Stripes	19,380
		685.07200210 - White Epoxy ReflectORIZED Pavement Stripes - Letters	0
		685.07200310 - White Epoxy ReflectORIZED Pavement Stripes - Symbols	34
		685.07200410 - White Epoxy ReflectORIZED Pavement Stripes - Cross Hatching	1,800
		685.07200510 - White Epoxy ReflectORIZED Pavement Stripes - Special Markings	6,500
		685.07200610 - Yellow Epoxy ReflectORIZED Pavement Stripes - Stripes	19,000
Length (Miles):	2.05 Miles	685.07200710 - Yellow Epoxy ReflectORIZED Pavement Stripes - Cross Hatching	700
		685.07200810 - White Epoxy ReflectORIZED Pavement Stripes - Yield Line Symbols - Small	0
		685.07200910 - White Epoxy ReflectORIZED Pavement Stripes - Yield Line Symbols - Large	0

NORTH CENTRAL AVENUE - Urban Collector FC #17			
START	END	ITEM 685.07200XX10 - EPOXY REFLECTORIZED PAVEMENT MARKINGS - 20 MILS (WET NIGHT VISIBILITY SPHERES)	QUANTITY
MP 0.38 Merrick Avenue Valley Stream	MP 1.08 Clarendon Drive Valley Stream	685.07200110 - White Epoxy ReflectORIZED Pavement Stripes	5,470
		685.07200210 - White Epoxy ReflectORIZED Pavement Stripes - Letters	0
		685.07200310 - White Epoxy ReflectORIZED Pavement Stripes - Symbols	18
		685.07200410 - White Epoxy ReflectORIZED Pavement Stripes - Cross Hatching	600
		685.07200510 - White Epoxy ReflectORIZED Pavement Stripes - Special Markings	4,150
		685.07200610 - Yellow Epoxy ReflectORIZED Pavement Stripes - Stripes	6,000
Length (Miles):	0.70 Miles	685.07200710 - Yellow Epoxy ReflectORIZED Pavement Stripes - Cross Hatching	230
		685.07200810 - White Epoxy ReflectORIZED Pavement Stripes - Yield Line Symbols - Small	0
		685.07200910 - White Epoxy ReflectORIZED Pavement Stripes - Yield Line Symbols - Large	0

NORTH JERUSALEM AVENUE - Minor Arterial, FC #16			
START	END	ITEM 685.07200XX10 - EPOXY REFLECTORIZED PAVEMENT MARKINGS - 20 MILS (WET NIGHT VISIBILITY SPHERES)	QUANTITY
MP 0.00 Jerusalem Avenue East Meadow	MP 3.53 Sand Hill Road Levittown	685.07200110 - White Epoxy ReflectORIZED Pavement Stripes	34,500
		685.07200210 - White Epoxy ReflectORIZED Pavement Stripes - Letters	0
		685.07200310 - White Epoxy ReflectORIZED Pavement Stripes - Symbols	24
		685.07200410 - White Epoxy ReflectORIZED Pavement Stripes - Cross Hatching	8,300
		685.07200510 - White Epoxy ReflectORIZED Pavement Stripes - Special Markings	17,600
		685.07200610 - Yellow Epoxy ReflectORIZED Pavement Stripes - Stripes	34,090
Length (Miles):	0.50 Miles	685.07200710 - Yellow Epoxy ReflectORIZED Pavement Stripes - Cross Hatching	480
		685.07200810 - White Epoxy ReflectORIZED Pavement Stripes - Yield Line Symbols - Small	0
		685.07200910 - White Epoxy ReflectORIZED Pavement Stripes - Yield Line Symbols - Large	0

NORTH VILLAGE AVENUE - Minor Arterial, FC #16			
START	END	ITEM 685.07200XX10 - EPOXY REFLECTORIZED PAVEMENT MARKINGS - 20 MILS (WET NIGHT VISIBILITY SPHERES)	QUANTITY
MP 0.72 Lakeview Avenue Rockville Centre	MP 2.12 Allen Road Rockville Centre	685.07200110 - White Epoxy ReflectORIZED Pavement Stripes	17,410
		685.07200210 - White Epoxy ReflectORIZED Pavement Stripes - Letters	6
		685.07200310 - White Epoxy ReflectORIZED Pavement Stripes - Symbols	22
		685.07200410 - White Epoxy ReflectORIZED Pavement Stripes - Cross Hatching	450
		685.07200510 - White Epoxy ReflectORIZED Pavement Stripes - Special Markings	2,100
Length (Miles):	1.40 Miles	685.07200610 - Yellow Epoxy ReflectORIZED Pavement Stripes - Stripes	17,400
		685.07200710 - Yellow Epoxy ReflectORIZED Pavement Stripes - Cross Hatching	0
		685.07200810 - White Epoxy ReflectORIZED Pavement Stripes - Yield Line Symbols - Small	0
		685.07200910 - White Epoxy ReflectORIZED Pavement Stripes - Yield Line Symbols - Large	0

NORTH WANTAGH AVENUE - Minor Arterial, FC #16			
START	END	ITEM 685.07200XX10 - EPOXY REFLECTORIZED PAVEMENT MARKINGS - 20 MILS (WET NIGHT VISIBILITY SPHERES)	QUANTITY
MP 4.33 NY 24 Leavittown	MP 5.25 NY 107 Bethpage	685.07200110 - White Epoxy ReflectORIZED Pavement Stripes	11,050
		685.07200210 - White Epoxy ReflectORIZED Pavement Stripes - Letters	4
		685.07200310 - White Epoxy ReflectORIZED Pavement Stripes - Symbols	52
		685.07200410 - White Epoxy ReflectORIZED Pavement Stripes - Cross Hatching	250
		685.07200510 - White Epoxy ReflectORIZED Pavement Stripes - Special Markings	6,300
Length (Miles):	0.92 Miles	685.07200610 - Yellow Epoxy ReflectORIZED Pavement Stripes - Stripes	11,250
		685.07200710 - Yellow Epoxy ReflectORIZED Pavement Stripes - Cross Hatching	5,690
		685.07200810 - White Epoxy ReflectORIZED Pavement Stripes - Yield Line Symbols - Small	0
		685.07200910 - White Epoxy ReflectORIZED Pavement Stripes - Yield Line Symbols - Large	0

OCEAN AVENUE - Minor Arterial, FC #16			
START	END	ITEM 685.07200XX10 - EPOXY REFLECTORIZED PAVEMENT MARKINGS - 20 MILS (WET NIGHT VISIBILITY SPHERES)	QUANTITY
MP 1.14 NY 27 Rockville Centre	MP 2.81 Hempstead Avenue Rockville Centre	685.07200110 - White Epoxy ReflectORIZED Pavement Stripes	12,100
		685.07200210 - White Epoxy ReflectORIZED Pavement Stripes - Letters	32
		685.07200310 - White Epoxy ReflectORIZED Pavement Stripes - Symbols	50
		685.07200410 - White Epoxy ReflectORIZED Pavement Stripes - Cross Hatching	1,630
		685.07200510 - White Epoxy ReflectORIZED Pavement Stripes - Special Markings	5,800
Length (Miles):	1.67 Miles	685.07200610 - Yellow Epoxy ReflectORIZED Pavement Stripes - Stripes	13,690
		685.07200710 - Yellow Epoxy ReflectORIZED Pavement Stripes - Cross Hatching	0
		685.07200810 - White Epoxy ReflectORIZED Pavement Stripes - Yield Line Symbols - Small	0
		685.07200910 - White Epoxy ReflectORIZED Pavement Stripes - Yield Line Symbols - Large	0

OLD COUNTRY ROAD - Minor Arterial, FC #16			
START	END	ITEM 685.07200XX10 - EPOXY REFLECTORIZED PAVEMENT MARKINGS - 20 MILS (WET NIGHT VISIBILITY SPHERES)	QUANTITY
MP 3.41 Glen Cove Road Carle Place	MP 10.38 Round Swamp Road Old Bethpage	685.07200110 - White Epoxy ReflectORIZED Pavement Stripes	80,000
		685.07200210 - White Epoxy ReflectORIZED Pavement Stripes - Letters	70
		685.07200310 - White Epoxy ReflectORIZED Pavement Stripes - Symbols	750
		685.07200410 - White Epoxy ReflectORIZED Pavement Stripes - Cross Hatching	8,000
		685.07200510 - White Epoxy ReflectORIZED Pavement Stripes - Special Markings	66,000
Length (Miles):	6.97 Miles	685.07200610 - Yellow Epoxy ReflectORIZED Pavement Stripes - Stripes	65,000
		685.07200710 - Yellow Epoxy ReflectORIZED Pavement Stripes - Cross Hatching	15,000
		685.07200810 - White Epoxy ReflectORIZED Pavement Stripes - Yield Line Symbols - Small	10
		685.07200910 - White Epoxy ReflectORIZED Pavement Stripes - Yield Line Symbols - Large	8

PENINSULA BOULEVARD - Principal Arterial, FC #14			
START	END	ITEM 685.07200XX10 - EPOXY REFLECTORIZED PAVEMENT MARKINGS - 20 MILS (WET NIGHT VISIBILITY SPHERES)	QUANTITY
MP 3.80 Nieman Avenue Lynbrook	MP 4.85 Ocean Avenue Lynbrook	685.07200110 - White Epoxy ReflectORIZED Pavement Stripes	4,500
		685.07200210 - White Epoxy ReflectORIZED Pavement Stripes - Letters	8
		685.07200310 - White Epoxy ReflectORIZED Pavement Stripes - Symbols	3
		685.07200410 - White Epoxy ReflectORIZED Pavement Stripes - Cross Hatching	150
		685.07200510 - White Epoxy ReflectORIZED Pavement Stripes - Special Markings	7,120
Length (Miles):	1.05 Miles	685.07200610 - Yellow Epoxy ReflectORIZED Pavement Stripes - Stripes	3,600
		685.07200710 - Yellow Epoxy ReflectORIZED Pavement Stripes - Cross Hatching	0
		685.07200810 - White Epoxy ReflectORIZED Pavement Stripes - Yield Line Symbols - Small	0
		685.07200910 - White Epoxy ReflectORIZED Pavement Stripes - Yield Line Symbols - Large	0

PENINSULA BOULEVARD - Principal Arterial, FC #14			
START	END	ITEM 685.07200XX10 - EPOXY REFLECTORIZED PAVEMENT MARKINGS - 20 MILS (WET NIGHT VISIBILITY SPHERES)	QUANTITY
MP 4.85 Ocean Avenue Lynbrook	MP 5.40 Lakeview Avenue Rockville Centre	685.07200110 - White Epoxy ReflectORIZED Pavement Stripes	24,500
		685.07200210 - White Epoxy ReflectORIZED Pavement Stripes - Letters	0
		685.07200310 - White Epoxy ReflectORIZED Pavement Stripes - Symbols	19
		685.07200410 - White Epoxy ReflectORIZED Pavement Stripes - Cross Hatching	5,200
		685.07200510 - White Epoxy ReflectORIZED Pavement Stripes - Special Markings	7,120
		685.07200610 - Yellow Epoxy ReflectORIZED Pavement Stripes - Stripes	23,750
Length (Miles):		685.07200710 - Yellow Epoxy ReflectORIZED Pavement Stripes - Cross Hatching	500
		685.07200810 - White Epoxy ReflectORIZED Pavement Stripes - Yield Line Symbols - Small	0
		685.07200910 - White Epoxy ReflectORIZED Pavement Stripes - Yield Line Symbols - Large	0

PENINSULA BOULEVARD - Principal Arterial, FC #14			
START	END	ITEM 685.07200XX10 - EPOXY REFLECTORIZED PAVEMENT MARKINGS - 20 MILS (WET NIGHT VISIBILITY SPHERES)	QUANTITY
MP 7.34 Southern State Parkway Hempstead	MP 9.03 NY 24 Hempstead	685.07200110 - White Epoxy ReflectORIZED Pavement Stripes	23,390
		685.07200210 - White Epoxy ReflectORIZED Pavement Stripes - Letters	60
		685.07200310 - White Epoxy ReflectORIZED Pavement Stripes - Symbols	140
		685.07200410 - White Epoxy ReflectORIZED Pavement Stripes - Cross Hatching	1,000
		685.07200510 - White Epoxy ReflectORIZED Pavement Stripes - Special Markings	8,020
		685.07200610 - Yellow Epoxy ReflectORIZED Pavement Stripes - Stripes	18,700
Length (Miles):	1.69 Miles	685.07200710 - Yellow Epoxy ReflectORIZED Pavement Stripes - Cross Hatching	400
		685.07200810 - White Epoxy ReflectORIZED Pavement Stripes - Yield Line Symbols - Small	0
		685.07200910 - White Epoxy ReflectORIZED Pavement Stripes - Yield Line Symbols - Large	0

PENINSULA BOULEVARD - Principal Arterial, FC #14			
START	END	ITEM 685.07200XX10 - EPOXY REFLECTORIZED PAVEMENT MARKINGS - 20 MILS (WET NIGHT VISIBILITY SPHERES)	QUANTITY
MP 0.00 Rockaway Turnpike Cedarhurst	MP 2.94 Rockaway Avenue Hewlett	685.07200110 - White Epoxy ReflectORIZED Pavement Stripes	43,510
		685.07200210 - White Epoxy ReflectORIZED Pavement Stripes - Letters	54
		685.07200310 - White Epoxy ReflectORIZED Pavement Stripes - Symbols	36
		685.07200410 - White Epoxy ReflectORIZED Pavement Stripes - Cross Hatching	1,790
		685.07200510 - White Epoxy ReflectORIZED Pavement Stripes - Special Markings	17,240
		685.07200610 - Yellow Epoxy ReflectORIZED Pavement Stripes - Stripes	94,950
Length (Miles):	2.94 Miles	685.07200710 - Yellow Epoxy ReflectORIZED Pavement Stripes - Cross Hatching	3,390
		685.07200810 - White Epoxy ReflectORIZED Pavement Stripes - Yield Line Symbols - Small	0
		685.07200910 - White Epoxy ReflectORIZED Pavement Stripes - Yield Line Symbols - Large	0

PLAINVIEW ROAD - Minor Arterial, FC #16			
START	END	ITEM 685.07200XX10 - EPOXY REFLECTORIZED PAVEMENT MARKINGS - 20 MILS (WET NIGHT VISIBILITY SPHERES)	QUANTITY
MP 0.00 NY 135 Plainview	MP 1.46 Old Bethpage Road Plainview	685.07200110 - White Epoxy ReflectORIZED Pavement Stripes	18,160
		685.07200210 - White Epoxy ReflectORIZED Pavement Stripes - Letters	33
		685.07200310 - White Epoxy ReflectORIZED Pavement Stripes - Symbols	9
		685.07200410 - White Epoxy ReflectORIZED Pavement Stripes - Cross Hatching	1,180
		685.07200510 - White Epoxy ReflectORIZED Pavement Stripes - Special Markings	2,910
		685.07200610 - Yellow Epoxy ReflectORIZED Pavement Stripes - Stripes	28,280
Length (Miles):	1.46 Miles	685.07200710 - Yellow Epoxy ReflectORIZED Pavement Stripes - Cross Hatching	1,240
		685.07200810 - White Epoxy ReflectORIZED Pavement Stripes - Yield Line Symbols - Small	0
		685.07200910 - White Epoxy ReflectORIZED Pavement Stripes - Yield Line Symbols - Large	0

ROCKAWAT AVENUE - Minor Arterial, FC #16			
START	END	ITEM 685.07200XX10 - EPOXY REFLECTORIZED PAVEMENT MARKINGS - 20 MILS (WET NIGHT VISIBILITY SPHERES)	QUANTITY
MP 0.00 Broadway Hewlett	MP 1.58 West Merrick Road Valley Stream	685.07200110 - White Epoxy ReflectORIZED Pavement Stripes	15,050
		685.07200210 - White Epoxy ReflectORIZED Pavement Stripes - Letters	12
		685.07200310 - White Epoxy ReflectORIZED Pavement Stripes - Symbols	21
		685.07200410 - White Epoxy ReflectORIZED Pavement Stripes - Cross Hatching	500
		685.07200510 - White Epoxy ReflectORIZED Pavement Stripes - Special Markings	10,500
		685.07200610 - Yellow Epoxy ReflectORIZED Pavement Stripes - Stripes	16,400
Length (Miles):	1.58 Miles	685.07200710 - Yellow Epoxy ReflectORIZED Pavement Stripes - Cross Hatching	0
		685.07200810 - White Epoxy ReflectORIZED Pavement Stripes - Yield Line Symbols - Small	0
		685.07200910 - White Epoxy ReflectORIZED Pavement Stripes - Yield Line Symbols - Large	0

ROCKAWAY PARKWAY - Minor Arterial, FC #16			
START	END	ITEM 685.07200XX10 - EPOXY REFLECTORIZED PAVEMENT MARKINGS - 20 MILS (WET NIGHT VISIBILITY SPHERES)	QUANTITY
	MP 2.18 West Fenimore Street Valley Stream	685.07200110 - White Epoxy ReflectORIZED Pavement Stripes	6,360
		685.07200210 - White Epoxy ReflectORIZED Pavement Stripes - Letters	0
		685.07200310 - White Epoxy ReflectORIZED Pavement Stripes - Symbols	0
		685.07200410 - White Epoxy ReflectORIZED Pavement Stripes - Cross Hatching	800
		685.07200510 - White Epoxy ReflectORIZED Pavement Stripes - Special Markings	0
		685.07200610 - Yellow Epoxy ReflectORIZED Pavement Stripes - Stripes	9,510
Length (Miles):	0.60 Miles	685.07200710 - Yellow Epoxy ReflectORIZED Pavement Stripes - Cross Hatching	8,100
		685.07200810 - White Epoxy ReflectORIZED Pavement Stripes - Yield Line Symbols - Small	0
		685.07200910 - White Epoxy ReflectORIZED Pavement Stripes - Yield Line Symbols - Large	0

ROCKAWAY TURNPIKE - Minor Arterial, FC #16			
START	END	ITEM 685.07200XX10 - EPOXY REFLECTORIZED PAVEMENT MARKINGS - 20 MILS (WET NIGHT VISIBILITY SPHERES)	QUANTITY
MP 0.63 West Broadway Cedarhurst	MP 0.98 Peninsula Boulevard Cedarhurst	685.07200110 - White Epoxy ReflectORIZED Pavement Stripes	4,370
		685.07200210 - White Epoxy ReflectORIZED Pavement Stripes - Letters	24
		685.07200310 - White Epoxy ReflectORIZED Pavement Stripes - Symbols	59
		685.07200410 - White Epoxy ReflectORIZED Pavement Stripes - Cross Hatching	1,150
		685.07200510 - White Epoxy ReflectORIZED Pavement Stripes - Special Markings	10,700
		685.07200610 - Yellow Epoxy ReflectORIZED Pavement Stripes - Stripes	2,870
Length (Miles):	0.35 Miles	685.07200710 - Yellow Epoxy ReflectORIZED Pavement Stripes - Cross Hatching	620
		685.07200810 - White Epoxy ReflectORIZED Pavement Stripes - Yield Line Symbols - Small	0
		685.07200910 - White Epoxy ReflectORIZED Pavement Stripes - Yield Line Symbols - Large	0

SEAMANS NECK ROAD - Urban Collector FC #17			
START	END	ITEM 685.07200XX10 - EPOXY REFLECTORIZED PAVEMENT MARKINGS - 20 MILS (WET NIGHT VISIBILITY SPHERES)	QUANTITY
MP 0.16 New Place Levittown	MP 1.61 NY 107 Levittown	685.07200110 - White Epoxy ReflectORIZED Pavement Stripes	17,000
		685.07200210 - White Epoxy ReflectORIZED Pavement Stripes - Letters	31
		685.07200310 - White Epoxy ReflectORIZED Pavement Stripes - Symbols	23
		685.07200410 - White Epoxy ReflectORIZED Pavement Stripes - Cross Hatching	750
		685.07200510 - White Epoxy ReflectORIZED Pavement Stripes - Special Markings	2,900
		685.07200610 - Yellow Epoxy ReflectORIZED Pavement Stripes - Stripes	20,940
Length (Miles):	0.84 Miles	685.07200710 - Yellow Epoxy ReflectORIZED Pavement Stripes - Cross Hatching	4,770
		685.07200810 - White Epoxy ReflectORIZED Pavement Stripes - Yield Line Symbols - Small	0
		685.07200910 - White Epoxy ReflectORIZED Pavement Stripes - Yield Line Symbols - Large	0

SHERIDAN BOULEVARD - Minor Arterial, FC #16			
START	END	ITEM 685.07200XX10 - EPOXY REFLECTORIZED PAVEMENT MARKINGS - 20 MILS (WET NIGHT VISIBILITY SPHERES)	QUANTITY
MP 0.00 NYC Line Inwood	MP 0.96 Doughty Boulevard Inwood	685.07200110 - White Epoxy ReflectORIZED Pavement Stripes	9,900
		685.07200210 - White Epoxy ReflectORIZED Pavement Stripes - Letters	54
		685.07200310 - White Epoxy ReflectORIZED Pavement Stripes - Symbols	6
		685.07200410 - White Epoxy ReflectORIZED Pavement Stripes - Cross Hatching	380
		685.07200510 - White Epoxy ReflectORIZED Pavement Stripes - Special Markings	4,250
		685.07200610 - Yellow Epoxy ReflectORIZED Pavement Stripes - Stripes	8,770
Length (Miles):	0.96 Miles	685.07200710 - Yellow Epoxy ReflectORIZED Pavement Stripes - Cross Hatching	530
		685.07200810 - White Epoxy ReflectORIZED Pavement Stripes - Yield Line Symbols - Small	0
		685.07200910 - White Epoxy ReflectORIZED Pavement Stripes - Yield Line Symbols - Large	0

SOUTH CENTRAL AVENUE - Minor Arterial, FC #16			
START	END	ITEM 685.07200XX10 - EPOXY REFLECTORIZED PAVEMENT MARKINGS - 20 MILS (WET NIGHT VISIBILITY SPHERES)	QUANTITY
MP 0.00 NY 27 Valley Stream	MP 0.38 Merrick Road Valley Stream	685.07200110 - White Epoxy ReflectORIZED Pavement Stripes	5,000
		685.07200210 - White Epoxy ReflectORIZED Pavement Stripes - Letters	0
		685.07200310 - White Epoxy ReflectORIZED Pavement Stripes - Symbols	18
		685.07200410 - White Epoxy ReflectORIZED Pavement Stripes - Cross Hatching	250
		685.07200510 - White Epoxy ReflectORIZED Pavement Stripes - Special Markings	2,440
		685.07200610 - Yellow Epoxy ReflectORIZED Pavement Stripes - Stripes	2,740
Length (Miles):	0.38 Miles	685.07200710 - Yellow Epoxy ReflectORIZED Pavement Stripes - Cross Hatching	290
		685.07200810 - White Epoxy ReflectORIZED Pavement Stripes - Yield Line Symbols - Small	0
		685.07200910 - White Epoxy ReflectORIZED Pavement Stripes - Yield Line Symbols - Large	0

SOUTH MAIN STREET - Minor Arterial, FC #16			
START	END	ITEM 685.07200XX10 - EPOXY REFLECTORIZED PAVEMENT MARKINGS - 20 MILS (WET NIGHT VISIBILITY SPHERES)	QUANTITY
MP 0.00 Cow Meadow Park Freeport	MP 1.56 Broadway Freeport	685.07200110 - White Epoxy ReflectORIZED Pavement Stripes	13,970
		685.07200210 - White Epoxy ReflectORIZED Pavement Stripes - Letters	16
		685.07200310 - White Epoxy ReflectORIZED Pavement Stripes - Symbols	20
		685.07200410 - White Epoxy ReflectORIZED Pavement Stripes - Cross Hatching	1,890
		685.07200510 - White Epoxy ReflectORIZED Pavement Stripes - Special Markings	11,360
		685.07200610 - Yellow Epoxy ReflectORIZED Pavement Stripes - Stripes	12,360
Length (Miles):	1.56 Miles	685.07200710 - Yellow Epoxy ReflectORIZED Pavement Stripes - Cross Hatching	570
		685.07200810 - White Epoxy ReflectORIZED Pavement Stripes - Yield Line Symbols - Small	0
		685.07200910 - White Epoxy ReflectORIZED Pavement Stripes - Yield Line Symbols - Large	0

STEWART AVENUE - Minor Arterial, FC #16			
START	END	ITEM 685.07200XX10 - EPOXY REFLECTORIZED PAVEMENT MARKINGS - 20 MILS (WET NIGHT VISIBILITY SPHERES)	QUANTITY
MP 0.43 New Hyde Park Road Garden City	MP 0.83 Tanners Pond Road Garden City	685.07200110 - White Epoxy ReflectORIZED Pavement Stripes	4,750
		685.07200210 - White Epoxy ReflectORIZED Pavement Stripes - Letters	0
		685.07200310 - White Epoxy ReflectORIZED Pavement Stripes - Symbols	4
		685.07200410 - White Epoxy ReflectORIZED Pavement Stripes - Cross Hatching	20
		685.07200510 - White Epoxy ReflectORIZED Pavement Stripes - Special Markings	2,000
		685.07200610 - Yellow Epoxy ReflectORIZED Pavement Stripes - Stripes	3,290
Length (Miles):	0.40 Miles	685.07200710 - Yellow Epoxy ReflectORIZED Pavement Stripes - Cross Hatching	0
		685.07200810 - White Epoxy ReflectORIZED Pavement Stripes - Yield Line Symbols - Small	0
		685.07200910 - White Epoxy ReflectORIZED Pavement Stripes - Yield Line Symbols - Large	0

STEWART AVENUE - Minor Arterial, FC #16			
START	END	ITEM 685.07200XX10 - EPOXY REFLECTORIZED PAVEMENT MARKINGS - 20 MILS (WET NIGHT VISIBILITY SPHERES)	QUANTITY
MP 0.60 NY 24 Plainedge	MP 3.77 South Oyster Bay Road Hicksville	685.07200110 - White Epoxy ReflectORIZED Pavement Stripes	5,740
		685.07200210 - White Epoxy ReflectORIZED Pavement Stripes - Letters	0
		685.07200310 - White Epoxy ReflectORIZED Pavement Stripes - Symbols	59
		685.07200410 - White Epoxy ReflectORIZED Pavement Stripes - Cross Hatching	3,280
		685.07200510 - White Epoxy ReflectORIZED Pavement Stripes - Special Markings	19,400
		685.07200610 - Yellow Epoxy ReflectORIZED Pavement Stripes - Stripes	38,170
Length (Miles):	3.17 Miles	685.07200710 - Yellow Epoxy ReflectORIZED Pavement Stripes - Cross Hatching	5,800
		685.07200810 - White Epoxy ReflectORIZED Pavement Stripes - Yield Line Symbols - Small	0
		685.07200910 - White Epoxy ReflectORIZED Pavement Stripes - Yield Line Symbols - Large	0

STEWART AVENUE - Minor Arterial, FC #16			
START	END	ITEM 685.07200XX10 - EPOXY REFLECTORIZED PAVEMENT MARKINGS - 20 MILS (WET NIGHT VISIBILITY SPHERES)	QUANTITY
MP 0.00 Salisbury Park Drive Salisbury	MP 2.24 NY 106 Hicksville	685.07200110 - White Epoxy ReflectORIZED Pavement Stripes	15,400
		685.07200210 - White Epoxy ReflectORIZED Pavement Stripes - Letters	24
		685.07200310 - White Epoxy ReflectORIZED Pavement Stripes - Symbols	34
		685.07200410 - White Epoxy ReflectORIZED Pavement Stripes - Cross Hatching	1,160
		685.07200510 - White Epoxy ReflectORIZED Pavement Stripes - Special Markings	750
		685.07200610 - Yellow Epoxy ReflectORIZED Pavement Stripes - Stripes	23,480
Length (Miles):	2.24 Miles	685.07200710 - Yellow Epoxy ReflectORIZED Pavement Stripes - Cross Hatching	1,670
		685.07200810 - White Epoxy ReflectORIZED Pavement Stripes - Yield Line Symbols - Small	0
		685.07200910 - White Epoxy ReflectORIZED Pavement Stripes - Yield Line Symbols - Large	0

UNIONDALE AVENUE - Minor Arterial, FC #16			
START	END	ITEM 685.07200XX10 - EPOXY REFLECTORIZED PAVEMENT MARKINGS - 20 MILS (WET NIGHT VISIBILITY SPHERES)	QUANTITY
MP 0.00 Nassau Road Uniondale	MP 2.02 NY 24 Uniondale	685.07200110 - White Epoxy ReflectORIZED Pavement Stripes	14,700
		685.07200210 - White Epoxy ReflectORIZED Pavement Stripes - Letters	0
		685.07200310 - White Epoxy ReflectORIZED Pavement Stripes - Symbols	0
		685.07200410 - White Epoxy ReflectORIZED Pavement Stripes - Cross Hatching	0
		685.07200510 - White Epoxy ReflectORIZED Pavement Stripes - Special Markings	0
		685.07200610 - Yellow Epoxy ReflectORIZED Pavement Stripes - Stripes	18,520
Length (Miles):	2.02 Miles	685.07200710 - Yellow Epoxy ReflectORIZED Pavement Stripes - Cross Hatching	0
		685.07200810 - White Epoxy ReflectORIZED Pavement Stripes - Yield Line Symbols - Small	0
		685.07200910 - White Epoxy ReflectORIZED Pavement Stripes - Yield Line Symbols - Large	0

WANTAGH AVENUE - Minor Arterial, FC #16			
START	END	ITEM 685.07200XX10 - EPOXY REFLECTORIZED PAVEMENT MARKINGS - 20 MILS (WET NIGHT VISIBILITY SPHERES)	QUANTITY
MP 0.50 NY 27 Wantagh	MP 2.70 Sarah Drive Levittown	685.07200110 - White Epoxy ReflectORIZED Pavement Stripes	23,400
		685.07200210 - White Epoxy ReflectORIZED Pavement Stripes - Letters	46
		685.07200310 - White Epoxy ReflectORIZED Pavement Stripes - Symbols	81
		685.07200410 - White Epoxy ReflectORIZED Pavement Stripes - Cross Hatching	750
		685.07200510 - White Epoxy ReflectORIZED Pavement Stripes - Special Markings	13,000
		685.07200610 - Yellow Epoxy ReflectORIZED Pavement Stripes - Stripes	23,400
Length (Miles):	2.20 Miles	685.07200710 - Yellow Epoxy ReflectORIZED Pavement Stripes - Cross Hatching	1,450
		685.07200810 - White Epoxy ReflectORIZED Pavement Stripes - Yield Line Symbols - Small	0
		685.07200910 - White Epoxy ReflectORIZED Pavement Stripes - Yield Line Symbols - Large	0

WEST MERRICK ROAD - Minor Arterial, FC #16			
START	END	ITEM 685.07200XX10 - EPOXY REFLECTORIZED PAVEMENT MARKINGS - 20 MILS (WET NIGHT VISIBILITY SPHERES)	QUANTITY
MP 0.00 Hook Creek Boulevard Valley Stream	MP 1.75 North Grove Street Valley Stream	685.07200110 - White Epoxy ReflectORIZED Pavement Stripes	23,100
		685.07200210 - White Epoxy ReflectORIZED Pavement Stripes - Letters	12
		685.07200310 - White Epoxy ReflectORIZED Pavement Stripes - Symbols	30
		685.07200410 - White Epoxy ReflectORIZED Pavement Stripes - Cross Hatching	1,600
		685.07200510 - White Epoxy ReflectORIZED Pavement Stripes - Special Markings	16,410
		685.07200610 - Yellow Epoxy ReflectORIZED Pavement Stripes - Stripes	18,480
Length (Miles):	1.75 Miles	685.07200710 - Yellow Epoxy ReflectORIZED Pavement Stripes - Cross Hatching	100
		685.07200810 - White Epoxy ReflectORIZED Pavement Stripes - Yield Line Symbols - Small	0
		685.07200910 - White Epoxy ReflectORIZED Pavement Stripes - Yield Line Symbols - Large	0

WILLIS AVENUE - Minor Arterial, FC #16			
START	END	ITEM 685.07200XX10 - EPOXY REFLECTORIZED PAVEMENT MARKINGS - 20 MILS (WET NIGHT VISIBILITY SPHERES)	QUANTITY
MP 2.26 IU Willets Road Albertson	MP 2.58 Garden Drive Albertson	685.07200110 - White Epoxy ReflectORIZED Pavement Stripes	3,350
		685.07200210 - White Epoxy ReflectORIZED Pavement Stripes - Letters	0
		685.07200310 - White Epoxy ReflectORIZED Pavement Stripes - Symbols	6
		685.07200410 - White Epoxy ReflectORIZED Pavement Stripes - Cross Hatching	200
		685.07200510 - White Epoxy ReflectORIZED Pavement Stripes - Special Markings	2,500
		685.07200610 - Yellow Epoxy ReflectORIZED Pavement Stripes - Stripes	2,860
Length (Miles):	0.32 Miles	685.07200710 - Yellow Epoxy ReflectORIZED Pavement Stripes - Cross Hatching	570
		685.07200810 - White Epoxy ReflectORIZED Pavement Stripes - Yield Line Symbols - Small	0
		685.07200910 - White Epoxy ReflectORIZED Pavement Stripes - Yield Line Symbols - Large	0

WOODBURY ROAD - Minor Arterial, FC #16			
START	END	ITEM 685.07200XX10 - EPOXY REFLECTORIZED PAVEMENT MARKINGS - 20 MILS (WET NIGHT VISIBILITY SPHERES)	QUANTITY
MP 7.20 NY 25 Woodbury	MP 8.93 Soffoul County Border Woodbury	685.07200110 - White Epoxy ReflectORIZED Pavement Stripes	17,620
		685.07200210 - White Epoxy ReflectORIZED Pavement Stripes - Letters	0
		685.07200310 - White Epoxy ReflectORIZED Pavement Stripes - Symbols	14
		685.07200410 - White Epoxy ReflectORIZED Pavement Stripes - Cross Hatching	550
		685.07200510 - White Epoxy ReflectORIZED Pavement Stripes - Special Markings	570
		685.07200610 - Yellow Epoxy ReflectORIZED Pavement Stripes - Stripes	18,640
Length (Miles):	1.73 Miles	685.07200710 - Yellow Epoxy ReflectORIZED Pavement Stripes - Cross Hatching	0
		685.07200810 - White Epoxy ReflectORIZED Pavement Stripes - Yield Line Symbols - Small	0
		685.07200910 - White Epoxy ReflectORIZED Pavement Stripes - Yield Line Symbols - Large	0

WOODBURY ROAD - Minor Arterial, FC #16			
START	END	ITEM 685.07200XX10 - EPOXY REFLECTORIZED PAVEMENT MARKINGS - 20 MILS (WET NIGHT VISIBILITY SPHERES)	QUANTITY
MP 2.85 Bay Avenue Hicksville	MP 4.16 South Oyster Bay Road Hicksville	685.07200110 - White Epoxy ReflectORIZED Pavement Stripes	15,580
		685.07200210 - White Epoxy ReflectORIZED Pavement Stripes - Letters	0
		685.07200310 - White Epoxy ReflectORIZED Pavement Stripes - Symbols	35
		685.07200410 - White Epoxy ReflectORIZED Pavement Stripes - Cross Hatching	850
		685.07200510 - White Epoxy ReflectORIZED Pavement Stripes - Special Markings	6,500
		685.07200610 - Yellow Epoxy ReflectORIZED Pavement Stripes - Stripes	13,950
Length (Miles):	1.31 Miles	685.07200710 - Yellow Epoxy ReflectORIZED Pavement Stripes - Cross Hatching	1,370
		685.07200810 - White Epoxy ReflectORIZED Pavement Stripes - Yield Line Symbols - Small	0
		685.07200910 - White Epoxy ReflectORIZED Pavement Stripes - Yield Line Symbols - Large	0

WOODFIELD ROAD - Minor Arterial, FC #16			
START	END	ITEM 685.07200XX10 - EPOXY REFLECTORIZED PAVEMENT MARKINGS - 20 MILS (WET NIGHT VISIBILITY SPHERES)	QUANTITY
MP0.00 Lakeview Avenue Lakeview	MP 2.46 Hepstead Avenue West Hempstead	685.07200110 - White Epoxy ReflectORIZED Pavement Stripes	12,700
		685.07200210 - White Epoxy ReflectORIZED Pavement Stripes - Letters	14
		685.07200310 - White Epoxy ReflectORIZED Pavement Stripes - Symbols	28
		685.07200410 - White Epoxy ReflectORIZED Pavement Stripes - Cross Hatching	1,110
		685.07200510 - White Epoxy ReflectORIZED Pavement Stripes - Special Markings	5,400
		685.07200610 - Yellow Epoxy ReflectORIZED Pavement Stripes - Stripes	23,720
Length (Miles):	2.46 Miles	685.07200710 - Yellow Epoxy ReflectORIZED Pavement Stripes - Cross Hatching	0
		685.07200810 - White Epoxy ReflectORIZED Pavement Stripes - Yield Line Symbols - Small	0
		685.07200910 - White Epoxy ReflectORIZED Pavement Stripes - Yield Line Symbols - Large	0

SPECIAL PROVISIONS

1) Purpose

The purpose of this specification is to set fourth the minimum requirements for this contract. The work covered by this contract involves the furnishing of labor, materials, and components as specified, for the:

- Removal of existing pavement markings.
- Cleaning and preparation of area from face of curb to face of curb for the installation of new pavement markings.
- Installation of new epoxy pavement markings

2) Location of Work

Throughout Nassau County roadways at various locations

3) Schedule

The contract shall be completed within twelve (12) months from the commencement of work date unless the County exceeds the original scope of work. In that event, the contract shall be extended to allow for completion of additional work. The length of the extension shall be in proportion to the amount of work added. The length of the extension shall be the sole discretion of the County. Nassau County will not allow any pavement marking installation from December 1 through March 31 unless prior approval is granted by the engineer. The request for a time extension by the contractor shall also be submitted to NYSDOT Construction for their concurrence.

4) Contractor Experience and Requirements

- a. The nature of the work involved in this contract requires the Contractor to possess prior satisfactory experience in the removal and installation of pavement markings.
- b. Prospective bidders must have at least three (3) years of satisfactory experience in the actual installation and maintenance of various types of pavement markings.
- c. Prospective bidders must be trained by the material manufacturer or have experience in the handling and the installation of specific pavement markings proposed in this contract.

- d. In addition to the requirements outlined in “Instruction to Bidders” of this contract, the low bidder shall be required to fill out an experience questionnaire by the County that will include the following questions:
- A list of all pavement markings contracts completed within the past three years.
 - A list of sources of supply to secure the necessary materials
 - A list of technical personnel who will be doing the necessary work

5) Standards

Standards and Specifications as defined in the 2009 edition of the *National Manual of Uniform Traffic Control Devices (National MUTCD)*, the *New York State Supplement to the National MUTCD*, and the latest revised edition of New York State Department of Transportation Standards and Specifications are made part of this contract.

6) Recourse

This contract does not imply that the low bidder, following the award of this contract, has exclusive right or legal recourse to the County of Nassau for any other similar type contract, or any other contract that may be awarded during the life of this contract.

7) Maintenance and Protection of Traffic

- a. Where work is being constructed on streets, sidewalks, easements or other locations normally used by the public, the Contractor shall conduct his work so as to minimize the interference with the safe and direct movement of pedestrian and vehicular travel. The Contractor shall provide all necessary construction signs, flagmen, arrow boards, cones, barricades, lighting, and their placement as required by the Short-Term Stationary operation as laid-out in NYSDOT Work Zone Traffic Control. The Contractor shall conform to directives by the County of Nassau. The Prime Contractor, through the Sponsor, shall submit to NYSDOT Construction for a review, the type of mounted light tower or its supplement (along with relevant specs) it proposes to use. This work is covered under item 619.24 – Nighttime Operations.

- b. Accessibility to fire hydrants, police and fire call boxes, and provision for the ingress and egress of emergency vehicles including police, fire, and ambulance vehicles shall be required at all times. Notification shall be made to the Police and local Fire Department should any road be closed.
- c. Maintenance and Protection of Traffic shall be paid for under a separate contract item.
- d. The Contractor is responsible for any and all claims made by the general public related to the process of removing and installing pavement markings under this contract.

8) Cleanliness

Upon completion of the work at each location or work order, the Contractor shall remove all remaining materials and shall leave the area, which may have been affected by his operation, in a neat and orderly condition.

9) Hold Harmless

The obligation of the contractor to hold harmless and indemnify the County is absolute and shall not be dependent on the Contractor having received any actual notice from the County.

10) Engineer's Estimate

The quantities included on the Engineer's Estimate are intended to provide a general guide as to the work expected in this contract. The County reserves the right to increase, decrease or eliminate the quantity of each item actually provided under this contract (including transportation item).

11) Additional Work – Extension of Contract

The County of Nassau reserves the right to extend the terms of this contract at the accepted bid prices for either furnishing only or furnishing and installing when the successful bidder is notified within ninety (90) days of the date of approval of the catalog cuts. The extension shall not exceed 50% of the total price bid.

12) Contract Administration and Inspection

The Department of Public works through the Division of Engineering, Traffic Engineering Unit will be the administrator of this contract and shall approve all

material to be installed, verify and approve all claim vouchers, and be responsible for providing all necessary inspections to verify compliance with the contract.

13) Funding

This Contract is funded under Capital Project 62153 and is eligible for Federal Aid reimbursement.

14) Payment

Payments of this contract will be made on a monthly basis for work completed during the preceding calendar month. No partial payments shall be made for material on hand and not installed.

15) Notification

The Project Engineer, Mr. Richard Iadevaio, shall be notified by the Contractor at (516) 571-6824 at least 48 hours prior to start of work, in order that adequate arrangements can be made to insure the presence of a Nassau County inspector during the striping operation. No work shall be performed without the presence of a Nassau County representative and /or without the coordination of the project manager in special circumstances.

17) Working Hours

The Contractor shall be advised that the normal working hours for Nassau County Field Personnel is based on a eight (8) hour shift, 8am to 4:30pm. Any change in time shift must meet with the Department approval.

18) Federal Funding Eligible

The Contractor should be aware that this project is eligible for Federal Aid Reimbursement and that there are specific Federal and State requirements detailed in this contract text that must be adhered to. Therefore, procedures will conform to all Federal requirements for local Federal Aid projects, as well as New York State administered requirements to local governments.

**ITEM 685.0715XX10 - EPOXY REFLECTORIZED PAVEMENT MARKINGS 15 MILS THICK
(WET NIGHT VISIBILITY SPHERES)**

**ITEM 685.0720XX10 - EPOXY REFLECTORIZED PAVEMENT MARKINGS 20 MILS THICK
(WET NIGHT VISIBILITY SPHERES)**

DESCRIPTION:

Under this work the contractor shall furnish and apply epoxy reflectorized pavement markings in accordance with these specifications, the Contract Documents, the NYSMUTCD, or as ordered by the Engineer. Items for Special Markings include stop bars and crosswalks.

Yield line symbols are isosceles triangles with height equaling 1.5 times the base dimension:

A small yield line symbol shall have a base dimension of one foot.

A large yield line symbol shall have a base dimension of two feet.

Yield line symbols are to be installed with the Apex of the triangle oriented towards oncoming traffic.

The epoxy marking material shall be hot-applied by spray methods onto bituminous and portland cement concrete pavement surfaces at the thickness and width shown on the Contract Documents. Following a simultaneous application of Standard Glass Beads (Type 2) and Wet/Night Visibility Beads (Type 1), the cured epoxy marking shall be an adherent reflectorized stripe that will provide wet night retro-reflectivity.

MATERIALS REQUIREMENTS:

Epoxy Paint	727-03
Glass Beads for Pavement Markings	727-05

Reflective Glass Spheres

Retro-reflective beads shall be a double drop system of glass spheres consisting of Standard Beads (Type 2) and Wet/Night Visibility Beads (Type 1) as defined in §727-05 Glass Beads for Pavement Markings.

EPOXY APPLICATING EQUIPMENT

In general, a mobile applicator shall be a truck mounted, self-contained pavement marking machine, specifically designed to apply epoxy resin materials and reflective glass spheres in continuous line patterns. The applying equipment shall be maneuverable to the extent that straight lines can be followed and normal curves can be made in a true arc. In addition, the truck mounted unit shall be provided with accessories to allow for the marking of cross hatching and other special patterns as directed by the Engineer.

At any time throughout the duration of the project, the Contractor shall provide free access to his epoxy applying equipment for inspection by the Engineer or his authorized representative.

The Engineer may approve the use of a portable applicator in lieu of mobile truck mounted accessories for use in applying special markings only, provided such equipment can demonstrate satisfactory application of reflectorized epoxy markings in accordance with these specifications.

**ITEM 685.0715XX10 - EPOXY REFLECTORIZED PAVEMENT MARKINGS 15 MILS THICK
(WET NIGHT VISIBILITY SPHERES)**

**ITEM 685.0720XX10 - EPOXY REFLECTORIZED PAVEMENT MARKINGS 20 MILS THICK
(WET NIGHT VISIBILITY SPHERES)**

Mobile applying equipment shall be capable of installing up to 19 miles of epoxy reflectorized pavement markings in an eight hour day and shall include the following features:

1. Individual tanks for the storage of Part A and Part B of the epoxy resin.
2. Individual tanks for the storage of Standard (Type 2) and Wet/Night Visibility (Type 1) glass spheres. Each tank shall have a minimum capacity of 3000 lbs.
3. Heating equipment of sufficient capacity to maintain the individual epoxy resin components at the manufacturer's recommended temperature for spray application.
4. Individual dispensers for the simultaneous application of Standard (Type 2) and Wet/Night Visibility (Type 1) glass spheres. Each dispenser shall be capable of applying spheres at a minimum rate of 10 lbs/gal of epoxy resin composition.
5. Metering devices or pressure gauges on the proportioning pumps, positioned to be readily visible to the Engineer.
6. All necessary spray equipment, mixers, compressors, and other appurtenances for the placement of epoxy reflectorized pavement markings in a simultaneous sequence of operations as described in Construction Details, D. Application of Epoxy ReflectORIZED Pavement Markings.

CONSTRUCTION DETAILS

A. General

All pavement markings shall be placed as shown on the Contract Documents and in accordance with the New York State, Manual of Uniform Traffic Control Devices (MUTCD).

Before any pavement marking work is begun, a schedule of operations shall be submitted for the approval of the Engineer.

At least five (5) days prior to starting striping, the Contractor shall provide the Engineer with the epoxy manufacturer's written instructions for use. These instructions shall include, but not be limited to, material mixing ratios and application temperatures.

When pavement markings are applied under traffic, the Contractor shall provide all necessary flags, markers, signs, etc. in accordance with the MUTCD to maintain and protect traffic, and to protect marking operations and the markings until thoroughly set.

The application of pavement markings shall be done in the general direction of traffic. Striping against the direction of traffic flow shall not be allowed.

**ITEM 685.0715XX10 - EPOXY REFLECTORIZED PAVEMENT MARKINGS 15 MILS THICK
(WET NIGHT VISIBILITY SPHERES)**

**ITEM 685.0720XX10 - EPOXY REFLECTORIZED PAVEMENT MARKINGS 20 MILS THICK
(WET NIGHT VISIBILITY SPHERES)**

The Contractor shall be responsible for removing, to the satisfaction of the Engineer, all tracking marks, spilled epoxy, and epoxy markings applied in unauthorized areas.

When necessary the Contractor shall establish marking line points at 30 foot intervals throughout the length of the pavement or as directed by the Engineer.

B. Atmospheric Conditions

Epoxy pavement markings shall only be applied during conditions of dry weather and on substantially dry pavement surfaces. At the time of installation the pavement surface temperature shall be a minimum of 50°F and the ambient temperature shall be a minimum of 50°F and rising. The Engineer shall be the sole determiner as to when atmospheric conditions and pavement surface conditions are such to produce satisfactory results.

C. Surface Preparation

The Contractor shall clean the pavement and existing durable markings to the satisfaction of the Engineer.

Surface cleaning and preparation work shall be performed only in the area of the epoxy markings application.

At the time of application all pavement surfaces and existing durable markings shall be free of oil, dirt, dust, grease and similar foreign materials. The cost of cleaning these contaminants shall be included in the bid price of this item.

In addition, concrete curing compounds on new portland cement concrete surfaces and existing painted pavement markings on both concrete and bituminous pavement surfaces shall be cleaned and paid for in accordance with §635 Cleaning and Preparation of Pavement Surfaces for Pavement Markings.

D. Application of Epoxy ReflectORIZED Pavement Markings

Epoxy reflectORIZED pavement markings shall be placed at the width, thickness, and pattern designated in the Contract Documents.

Marking operations shall not begin until applicable surface preparation work is completed and approved by the Engineer, and the atmospheric conditions are acceptable to the Engineer.

Pavement markings shall be applied by the following simultaneous operation:

1. The pavement surface is air-blasted to remove dirt and residues.
2. The epoxy resin, mixed and heated in accordance with the manufacturer's

**ITEM 685.0715XX10 - EPOXY REFLECTORIZED PAVEMENT MARKINGS 15 MILS THICK
(WET NIGHT VISIBILITY SPHERES)**

**ITEM 685.0720XX10 - EPOXY REFLECTORIZED PAVEMENT MARKINGS 20 MILS THICK
(WET NIGHT VISIBILITY SPHERES)**

recommendations, is uniformly hot-sprayed onto the pavement surface at the minimum specified thickness.

3. Standard (Type 2) and Wet/Night Visibility (Type 1) reflective glass spheres are injected into or dropped onto the liquid epoxy marking. Standard beads (Type 2) shall be applied first immediately followed by the application of Wet/Night Visibility beads (Type 1). Each type shall be applied at a minimum rate of 10 lbs/gal of epoxy resin (minimum total application = 20 lbs/gal).

E. Defective Epoxy Pavement Markings

Epoxy reflectorized pavement markings, which after application and curing are determined by the Engineer to be defective and not in conformance with this specification, shall be repaired. Repair of defective markings shall be the responsibility of the Contractor and shall be performed to the satisfaction of the Engineer as follows:

1. Insufficient film thickness and line width; insufficient glass bead coverage or inadequate glass bead retention.

Repair Method. Prepare the surface of the defective epoxy marking by grinding or blast cleaning. No other cleaning methods will be allowed. Surface preparation shall be performed to the extent that a substantial amount of the reflective glass spheres are removed and a roughened epoxy marking surface remains.

Immediately after surface preparation remove loose particles and foreign debris by brooming or blasting with compressed air.

Repair shall be made by restriping over the cleaned surface in accordance with the requirements of this specification and at the full thickness indicated on the Contract Documents.

2. Uncured or discolored epoxy*; insufficient bond (to pavement surface or existing durable marking).

Repair Method. The defective epoxy marking shall be completely removed and cleaned to the underlying pavement surface in accordance with the requirements of Section 635 - Cleaning and Preparation of Pavement Surfaces, at the Contractor's expense.

The extent of removal shall be the defective area plus any adjacent epoxy pavement marking material extending three feet in any direction.

After surface preparation work is complete, repair shall be made by reapplying epoxy over the cleaned pavement surface in accordance with the requirements of this specification.

**ITEM 685.0715XX10 - EPOXY REFLECTORIZED PAVEMENT MARKINGS 15 MILS THICK
(WET NIGHT VISIBILITY SPHERES)**

**ITEM 685.0720XX10 - EPOXY REFLECTORIZED PAVEMENT MARKINGS 20 MILS THICK
(WET NIGHT VISIBILITY SPHERES)**

*Uncured epoxy shall be defined as applied material that fails to cure (dry) in accordance with the requirements of §727-03 Epoxy Paint; or applied material that fails to cure (dry) within a reasonable time period under actual field conditions, as defined by the Engineer.

Discoloration shall be defined as localized areas or patches of brown, grayish or black colored epoxy marking material. These areas often occur in a cyclic pattern and often are not visible until several days or weeks after markings are applied.

Other defects not noted above, but determined by the Engineer to need repair, shall be repaired or replaced as directed by and to the satisfaction of the Engineer.

All work in conjunction with the repair or replacement of defective epoxy reflectorized pavement markings shall be performed by the Contractor at no additional cost to the State.

METHOD OF MEASUREMENT

Pavement striping (regular lines, cross hatching and special markings) will be measured in feet along the centerline of the pavement stripe and will be based on a 4 inch wide stripe. Measurement for striping with a width greater than the basic 4 inches, as shown on the plans or directed by the Engineer, will be made by the following method:

$$\frac{\text{Plan Width of Striping (inches) X Feet}}{4 \text{ inches}}$$

BASIS OF PAYMENT

The accepted quantities of markings will be paid for at the contract unit price, which shall include the cost of furnishing all labor, materials and equipment to satisfactorily complete the work. The cost for maintaining and protecting traffic during the marking operations shall be included in the price bid. The cost of removal of concrete curing compounds and existing pavement markings will be paid under separate items and are not included in this item.

No payment will be made for the repair or replacement of defective epoxy reflectorized pavement markings.

<u>PAY ITEM NO.</u>	<u>DESCRIPTION</u>	<u>PAY UNIT</u>
685.07150110	White Epoxy ReflectORIZED Pavement Stripes – 15 mils	Foot

**ITEM 685.0715XX10 - EPOXY REFLECTORIZED PAVEMENT MARKINGS 15 MILS THICK
(WET NIGHT VISIBILITY SPHERES)**

**ITEM 685.0720XX10 - EPOXY REFLECTORIZED PAVEMENT MARKINGS 20 MILS THICK
(WET NIGHT VISIBILITY SPHERES)**

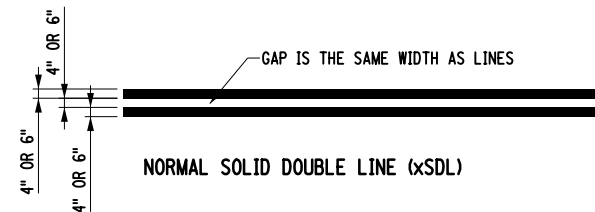
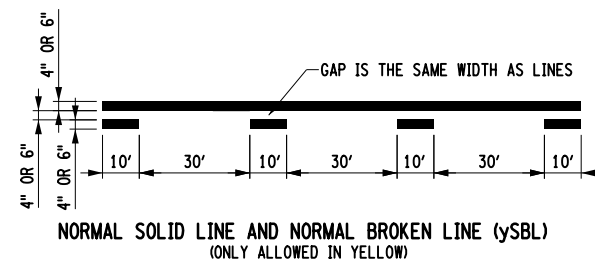
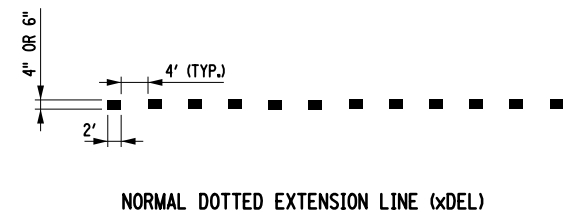
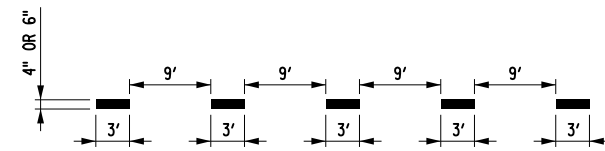
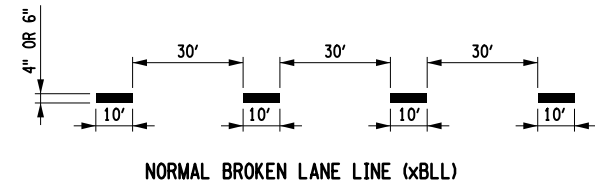
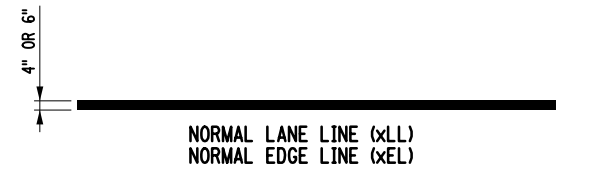
685.07150210	(Wet Night Visibility Spheres) White Epoxy ReflectORIZED Pavement Letters - 15 mils	Each
685.07150310	(Wet Night Visibility Spheres) White Epoxy ReflectORIZED Pavement Symbols – 15 mils	Each
685.07150410	(Wet Night Visibility Spheres) White Epoxy ReflectORIZED Cross Hatching -15 mils Thick	Foot
685.07150510	(Wet Night Visibility Spheres) White Epoxy ReflectORIZED Pavement Stripes (Special Markings) 15 mils Thick (Wet Night Visibility Spheres)	Foot
685.07150610	Yellow Epoxy ReflectORIZED Pavement Stripes – 15 mils (Wet Night Visibility Spheres)	Foot
685.07150710	Yellow Epoxy ReflectORIZED Pavement Stripes (Cross Hatching) 15 mils Thick (Wet Night Visibility Spheres)	Foot
685.07150810	White Epoxy ReflectORIZED Pavement Yield Line Symbols - Small - 15 mils (Wet Night Visibility Spheres)	Each
685.07150910	White Epoxy ReflectORIZED Pavement Yield Line Symbols - Large - 15 mils (Wet Night Visibility Spheres)	Each
685.07200110	White Epoxy ReflectORIZED Pavement Stripes – 20 mils (Wet Night Visibility Spheres)	Foot
685.07200210	White Epoxy ReflectORIZED Pavement Letters – 20 mils (Wet Night Visibility Spheres)	Each
685.07200310	White Epoxy ReflectORIZED Pavement Symbols – 20 mils (Wet Night Visibility Spheres)	Each
685.07200410	White Epoxy ReflectORIZED Pavement Stripes (Cross Hatching) 20 mils Thick (Wet Night Visibility Spheres)	Foot
685.07200510	White Epoxy ReflectORIZED Pavement Stripes (Special Markings) 20 mils Thick (Wet Night Visibility Spheres)	Foot

**ITEM 685.0715XX10 - EPOXY REFLECTORIZED PAVEMENT MARKINGS 15 MILS THICK
(WET NIGHT VISIBILITY SPHERES)**

**ITEM 685.0720XX10 - EPOXY REFLECTORIZED PAVEMENT MARKINGS 20 MILS THICK
(WET NIGHT VISIBILITY SPHERES)**

685.07200610	Yellow Epoxy ReflectORIZED Pavement Stripes – 20 mils (Wet Night Visibility Spheres)	Foot
685.07200710	Yellow Epoxy ReflectORIZED Pavement Stripes (Cross Hatching) 20 mils Thick (Wet Night Visibility Spheres)	Foot
685.07200810	White Epoxy ReflectORIZED Pavement Yield Line Symbols - Small - 20 mils (Wet Night Visibility Spheres)	Each
685.07200910	White Epoxy ReflectORIZED Pavement Yield Line Symbols - Large - 20 mils (Wet Night Visibility Spheres)	Each

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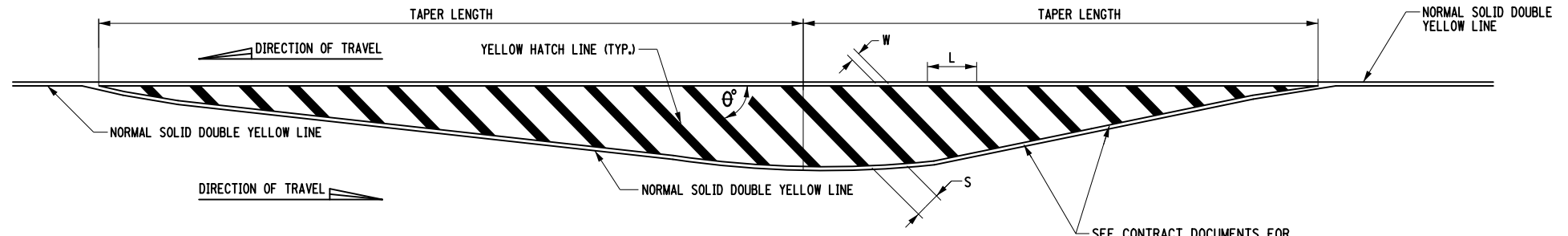


PAVEMENT MARKING LINE NOTES:

L1. EDGE LINES ON ALL RURAL, HIGH SPEED HIGHWAY SEGMENTS WITH POSTED SPEEDS OF 45 MPH OR MORE SHALL BE 6". ALSO, NORMAL PAVEMENT MARKING LINES SHALL BE 6" ON FREEWAYS AND EXPRESSWAYS AND ON RAMP TO AND FROM FREEWAYS AND EXPRESSWAYS, AND WHERE SPECIFIED IN THE CONTRACT DOCUMENTS. AT ALL OTHER LOCATIONS NORMAL PAVEMENT MARKING LINES SHALL BE 4". WIDE PAVEMENT MARKING LINES SHALL BE TWICE AS WIDE AS NORMAL LINES ON THE SAME HIGHWAY. CHANNELIZING LINES ARE THE SAME WIDTH AS WIDE LINES.

L2. PAVEMENT MARKING LINE CODES MAY BE SHOWN ON THE PLANS.
DESIGNATIONS:

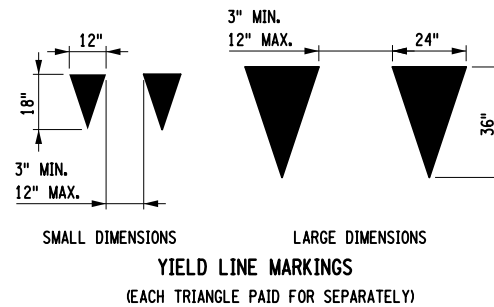
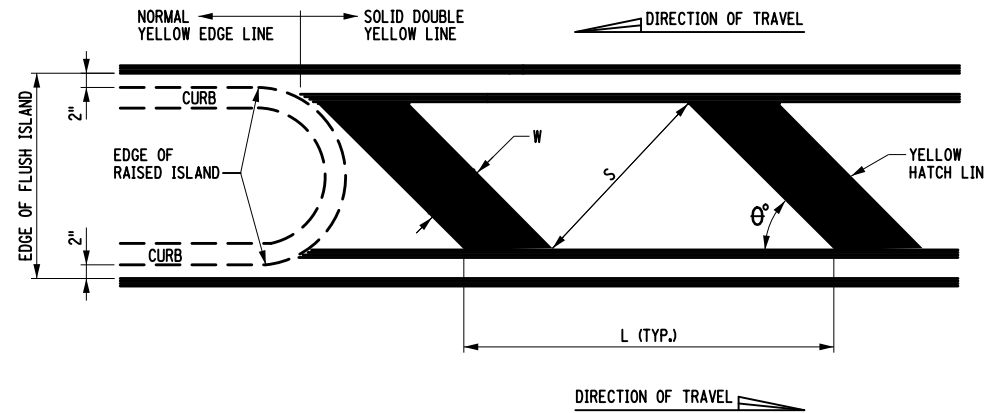
"W"=WHITE "Y"=YELLOW "WIDE"=WIDE



POSTED SPEED ≥ 45 MPH					POSTED SPEED < 45 MPH				
TYPE	W	θ°	S	L	TYPE	W	θ°	S	L
A	1'	30°	3'	8'	A	8"	30°	2'	5'-4"
B	1'	35°	3'	7'	B	1'	35°	3'	7'
C	2'	45°	6'	11'-4"	C	2'	45°	6'	11'-4"

CROSS HATCH LINE DIMENSIONS

NOTE: TYPE SHALL BE AS PER PLAN. DEFAULT VALUE IS TYPE C UNLESS OTHERWISE SHOWN.

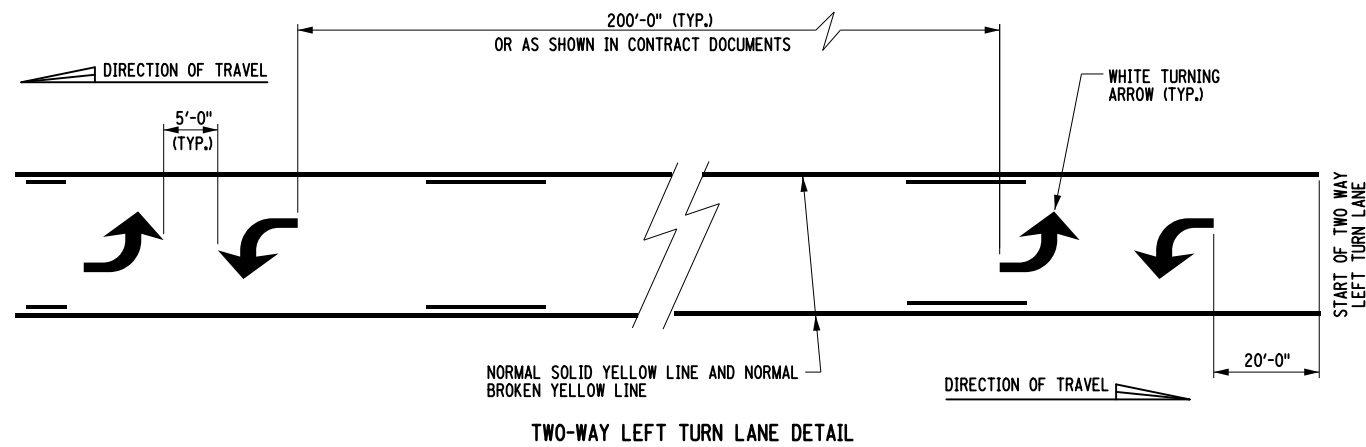


GENERAL PAVEMENT MARKING NOTES:

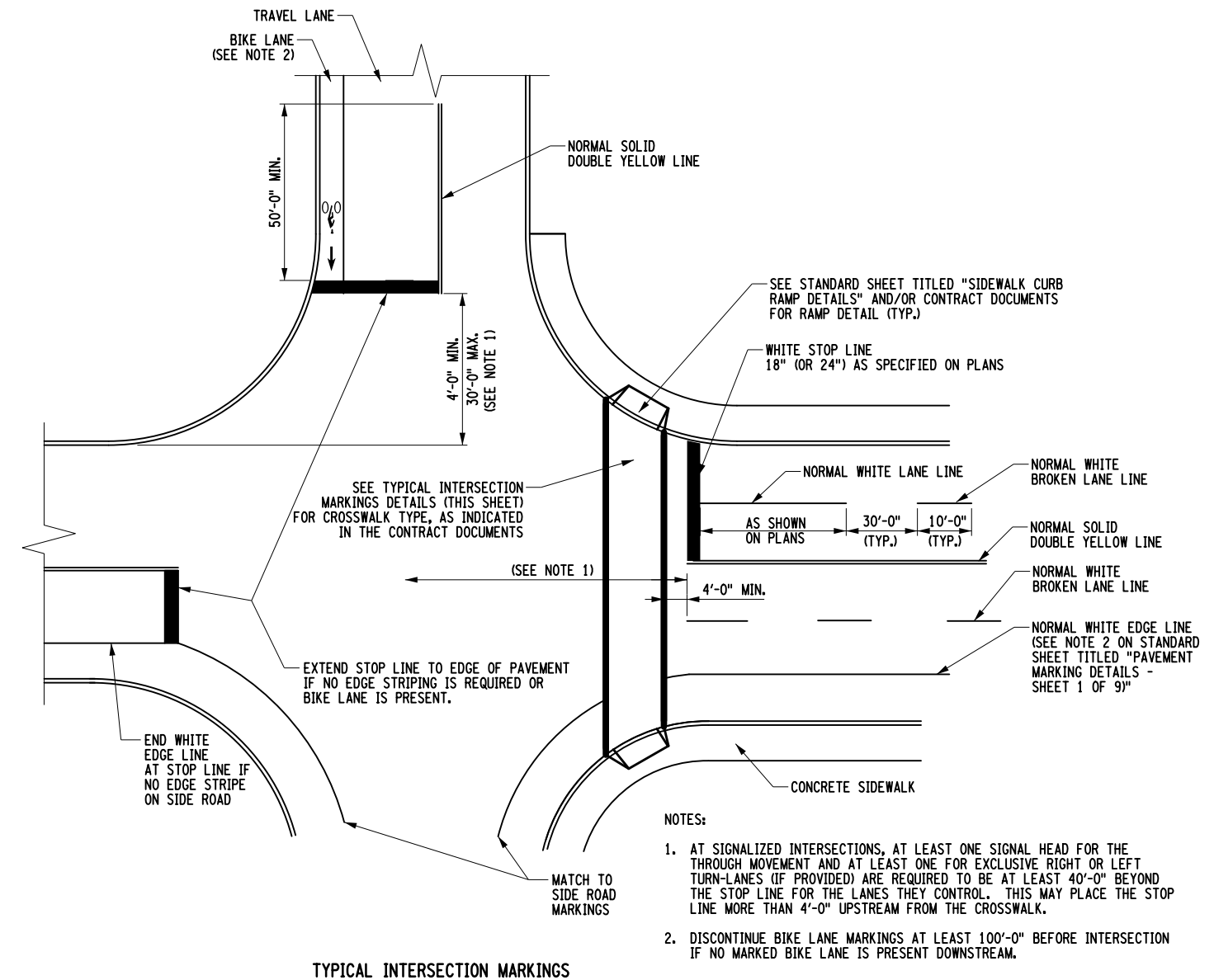
- ALL PAVEMENT MARKINGS SHALL BE PLACED IN ACCORDANCE WITH THE MUTCD AND NYS SUPPLEMENT.
- EDGE LINES SHALL BE YELLOW ON THE LEFT SIDE AND WHITE ON THE RIGHT SIDE IN THE DIRECTION OF TRAVEL UNLESS OTHERWISE SHOWN ON THE PLANS. IF THE CURB OFFSET IS LESS THAN 2'-0", NO EDGE LINE SHALL BE APPLIED ADJACENT TO CURBS UNLESS OTHERWISE SHOWN ON THE PLANS. EDGE LINES SHALL BE PROVIDED AT THE CURB ADJACENT TO RAISED ISLANDS (SEE DETAIL).
- WHERE MARKINGS NORMALLY FOLLOW A PAVEMENT JOINT, SINGLE LINE MARKINGS SHALL BE PLACED ALONG ONE SIDE OF THE JOINT. DOUBLE LINE MARKINGS SHALL STRADDLE THE JOINT. LANE LINES ON ROADWAYS WHICH ARE MORE THAN TWO LANES WIDE AND HAVE LONGITUDINAL JOINTS BETWEEN ADJACENT LANES, SHALL BE PLACED ON THE SIDE OF THE JOINT WHICH WILL OBTAIN OPTIMUM LANE WIDTHS.

AT THE JUNCTION OF SINGLE AND DOUBLE LINE MARKINGS WHICH FOLLOW A PAVEMENT JOINT, THE SINGLE LINE SHALL BE AN EXTENSION OF EITHER OF THE DOUBLE LINES AND NOT THE SPACE BETWEEN THEM. AT THE JUNCTION OF SINGLE AND DOUBLE LINE MARKINGS WHICH DO NOT FOLLOW A PAVEMENT JOINT, THE SINGLE LINE MAY BE ALIGNED WITH THE CENTER OF THE DOUBLE LINE MARKING OR WITH EITHER LINE OF THE DOUBLE LINE.
- ALL DIMENSIONS AND THE PLACEMENT OF ARROWS, SYMBOLS, AND TEXT SHOWN ARE TYPICAL AND SHALL APPLY UNLESS OTHERWISE INDICATED IN THE CONTRACT DOCUMENTS.
- THE REGIONAL TRAFFIC ENGINEER WILL REVIEW AND APPROVE ANY CHANGES TO THE PAVEMENT MARKING PLANS PRIOR TO FINAL INSTALLATION. CHANGES SHALL BE SUBMITTED TWO WEEKS PRIOR TO INSTALLATION.

		Department of Transportation
U.S. CUSTOMARY STANDARD SHEET		
PAVEMENT_MARKING_DETAILS (SHEET 1 OF 9)		
APPROVED AUGUST 21, 2018 /S/ ROBERT LIMOGES P.E. DIRECTOR, OFFICE OF TRAFFIC SAFETY AND MOBILITY	ISSUED UNDER EI 18-008 685-01	

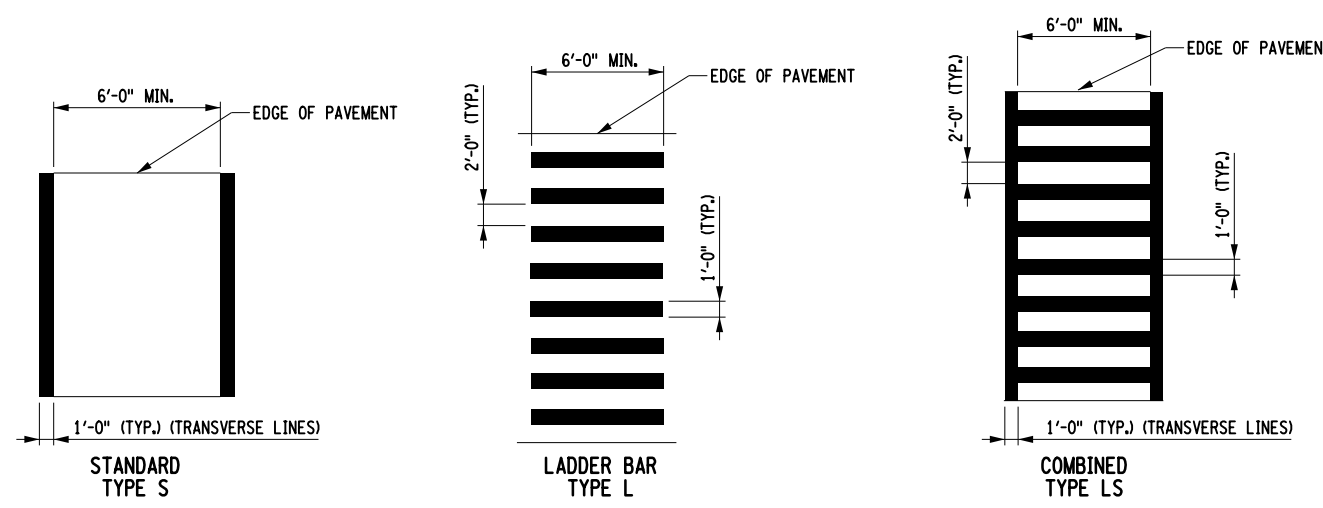


TWO-WAY LEFT TURN LANE DETAIL



TYPICAL INTERSECTION MARKINGS


- NOTES:
1. AT SIGNALIZED INTERSECTIONS, AT LEAST ONE SIGNAL HEAD FOR THE THROUGH MOVEMENT AND AT LEAST ONE FOR EXCLUSIVE RIGHT OR LEFT TURN-LANES (IF PROVIDED) ARE REQUIRED TO BE AT LEAST 40'-0" BEYOND THE STOP LINE FOR THE LANES THEY CONTROL. THIS MAY PLACE THE STOP LINE MORE THAN 4'-0" UPSTREAM FROM THE CROSSWALK.
 2. DISCONTINUE BIKE LANE MARKINGS AT LEAST 100'-0" BEFORE INTERSECTION IF NO MARKED BIKE LANE IS PRESENT DOWNSTREAM.



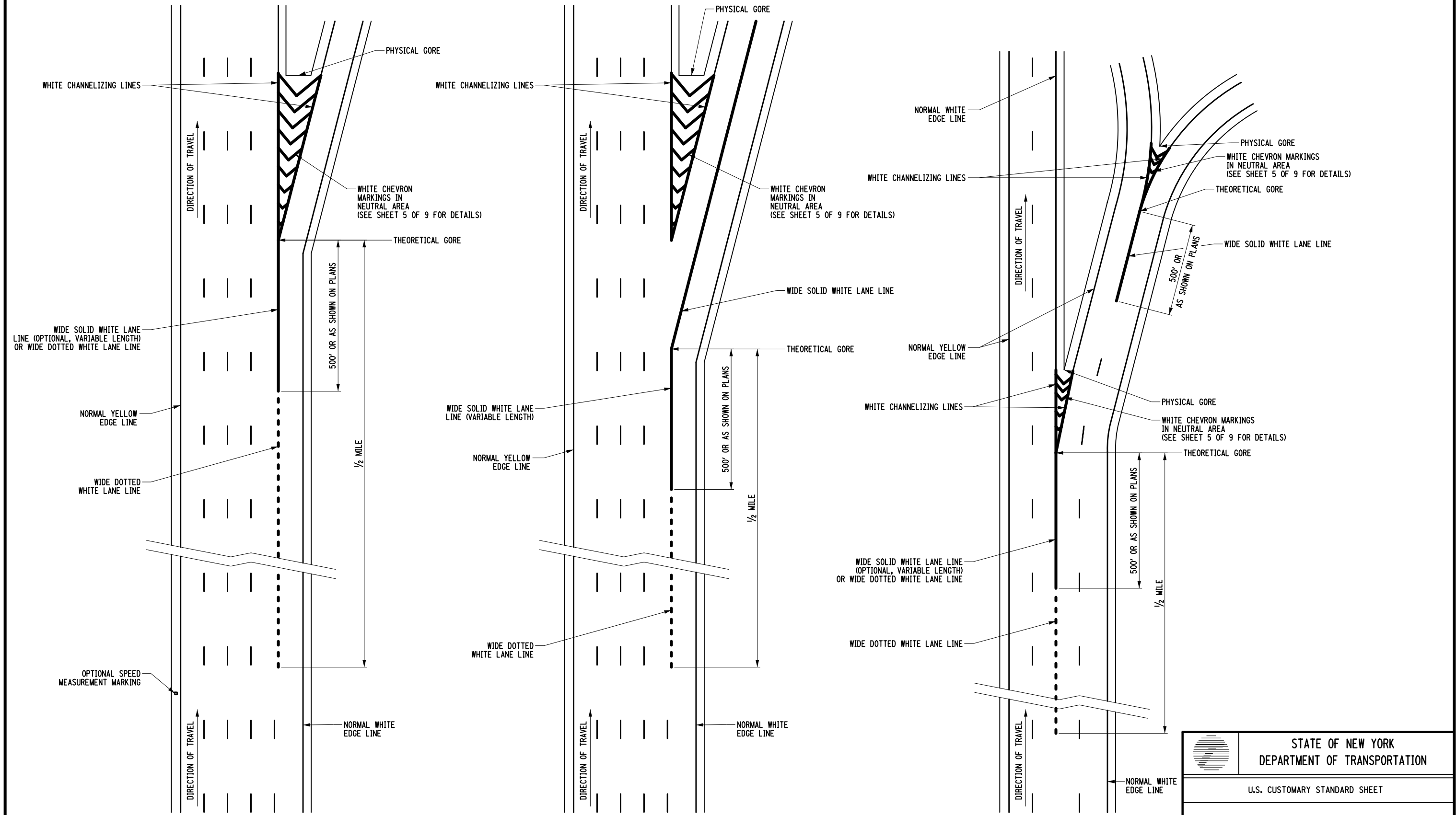
TYPICAL CROSSWALK DETAILS

- NOTES:
1. ALL CROSSWALK MARKINGS SHALL BE WHITE.
 2. TYPE "L" AND TYPE "LS" CROSSWALKS SHALL HAVE THE LONGITUDINAL LINES PARALLEL TO THE LANE LINES.

1. SEE STANDARD SHEET 685-01 (SHEET 1 OF 9) FOR LINE LAYOUT AND DIMENSIONS (EXCEPT AS NOTED).
2. REFER TO STANDARD SHEET 685-01 (SHEET 1 OF 9) FOR GENERAL NOTES.

 Department of Transportation	
U.S. CUSTOMARY STANDARD SHEET	
PAVEMENT MARKING DETAILS (SHEET 2 OF 9)	
APPROVED SEPTEMBER 24, 2012	ISSUED UNDER EB 12-036
/S/ TODD B. WESTHUIS, P.E. ACTING DIRECTOR, OFFICE OF TRAFFIC SAFETY AND MOBILITY	685-01


ERRATA 1 EFF. 05-01-2021
ISSUED WITH EB 21-006



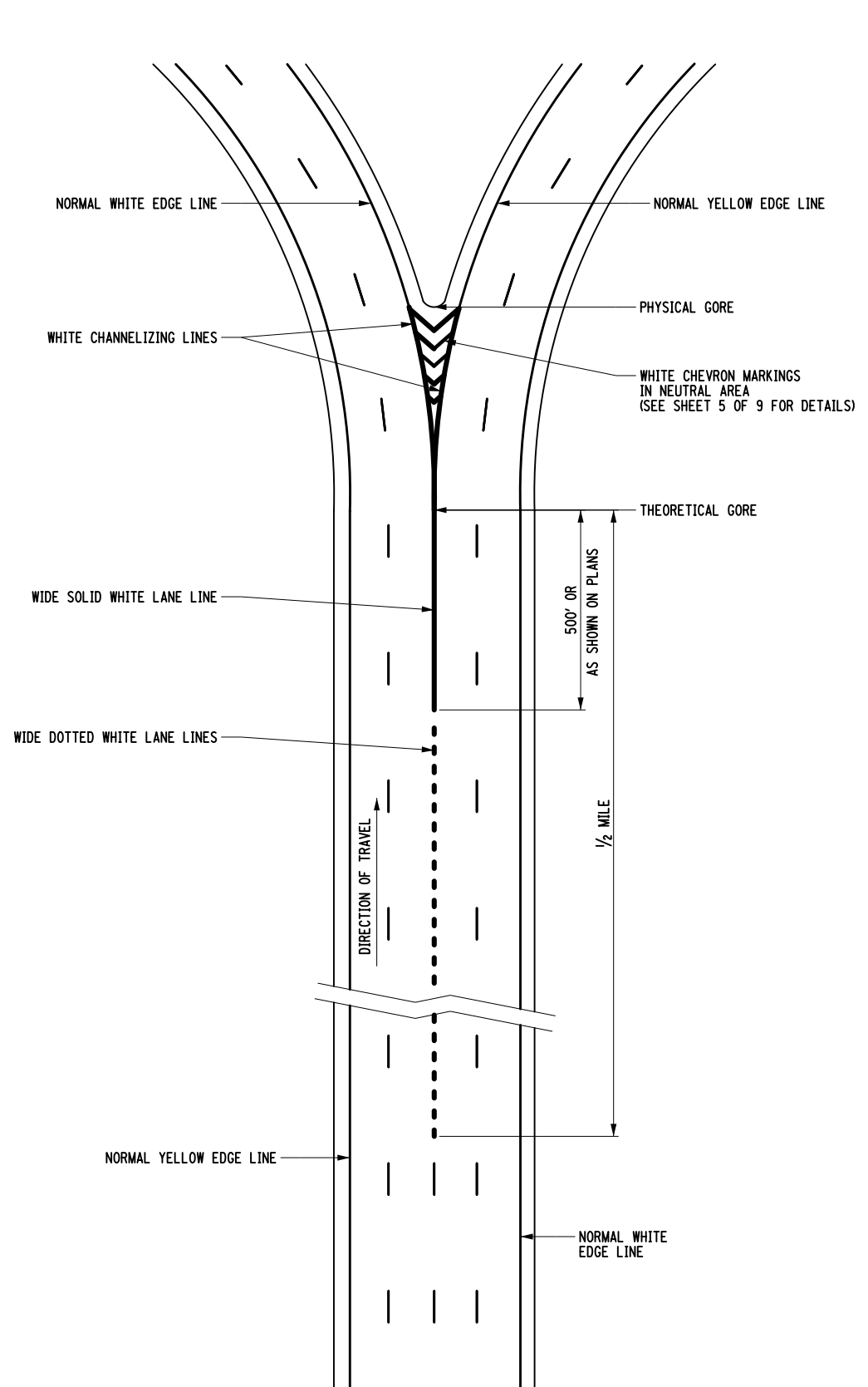
LANE DROP AT A SINGLE LANE EXIT RAMP

LANE DROP AT A MULTI-LANE EXIT RAMP WITH OPTION LANE

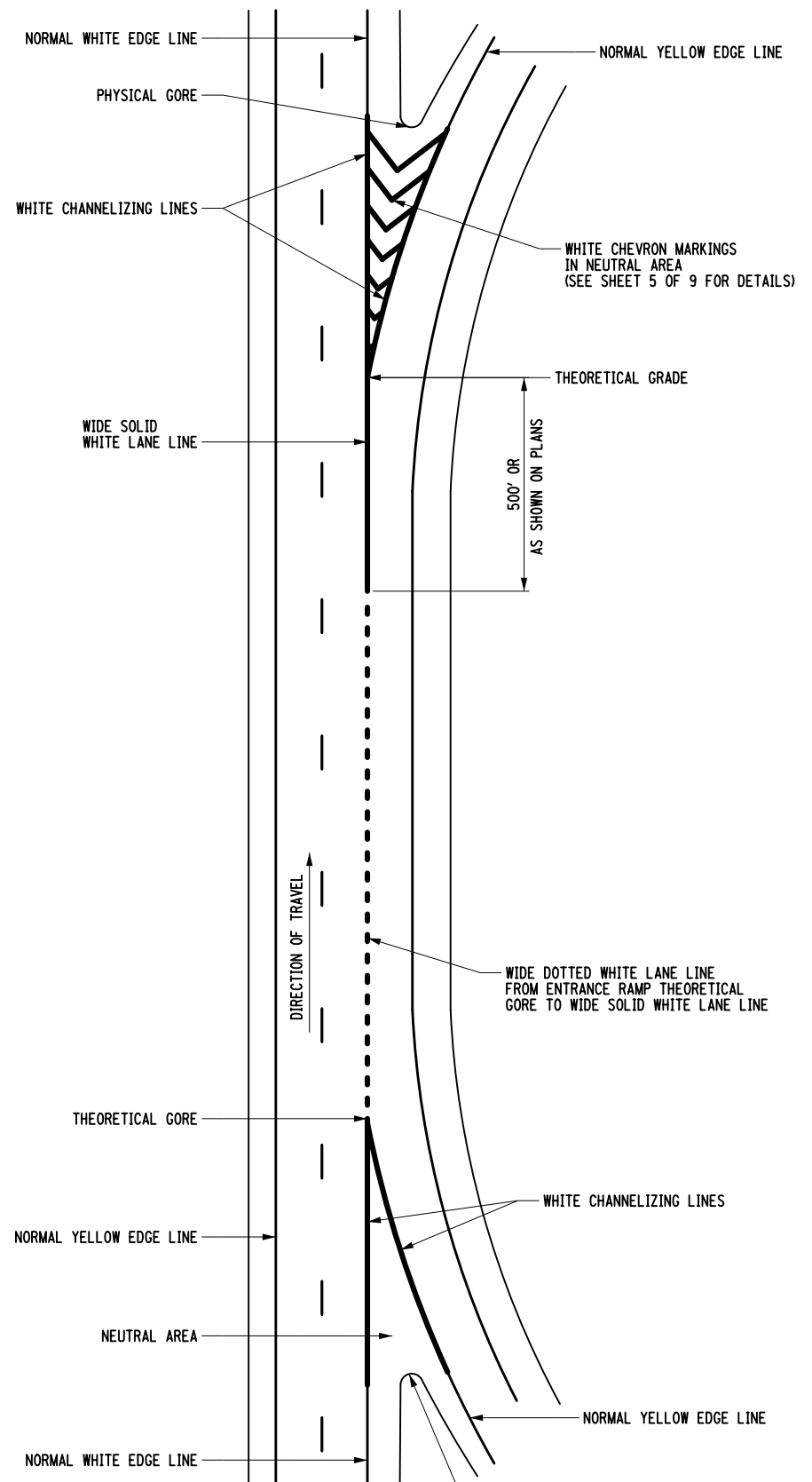
TWO-LANE DROP AT AN EXIT RAMP

	STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION
	U.S. CUSTOMARY STANDARD SHEET
PAVEMENT MARKING DETAILS (SHEET 3 OF 9)	
APPROVED SEPTEMBER 24, 2012	ISSUED UNDER EB 12-036
/S/ TODD B. WESTHUIS, P.E. ACTING DIRECTOR, OFFICE OF TRAFFIC SAFETY AND MOBILITY	685-01

EFFECTIVE DATE: 05/02/2013



ROUTE SPLIT WITH DEDICATED LANES



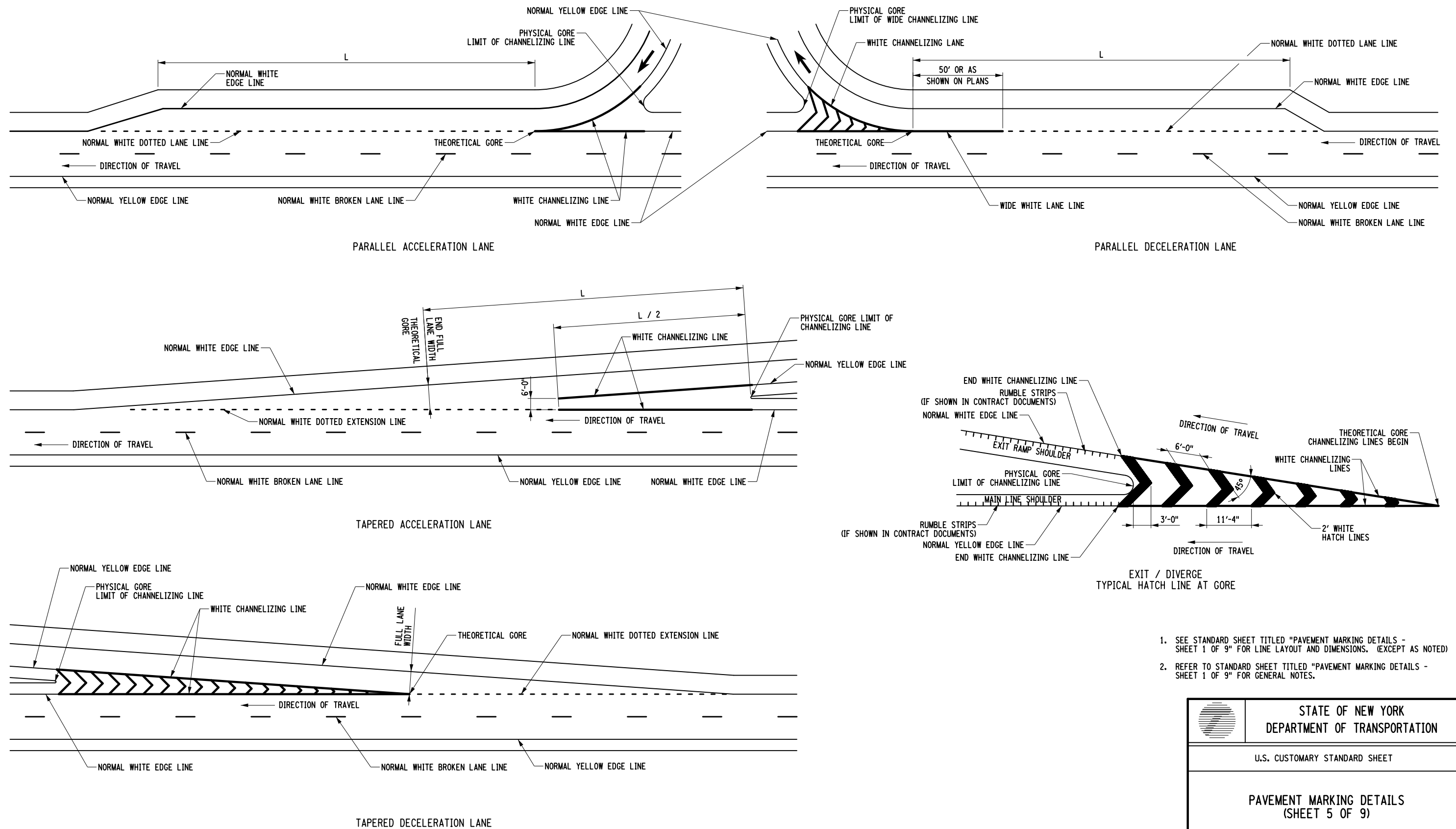
AUXILIARY LANE AT CLOSELY SPACED RAMP

NOTE: USE THIS DETAIL WHERE DISTANCE FROM THEORETICAL GORE OF ENTRANCE RAMP TO THEORETICAL GORE OF EXIT RAMP IS LESS THAN OR EQUAL TO 1/4 MILE.


	STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION	
	U.S. CUSTOMARY STANDARD SHEET	
PAVEMENT MARKING DETAILS (SHEET 4 OF 9)		
APPROVED SEPTEMBER 24, 2012 /S/ TODD B. WESTHUIS, P.E. ACTING DIRECTOR, OFFICE OF TRAFFIC SAFETY AND MOBILITY	ISSUED UNDER EB 12-036	685-01

EFFECTIVE DATE: 05/02/2013

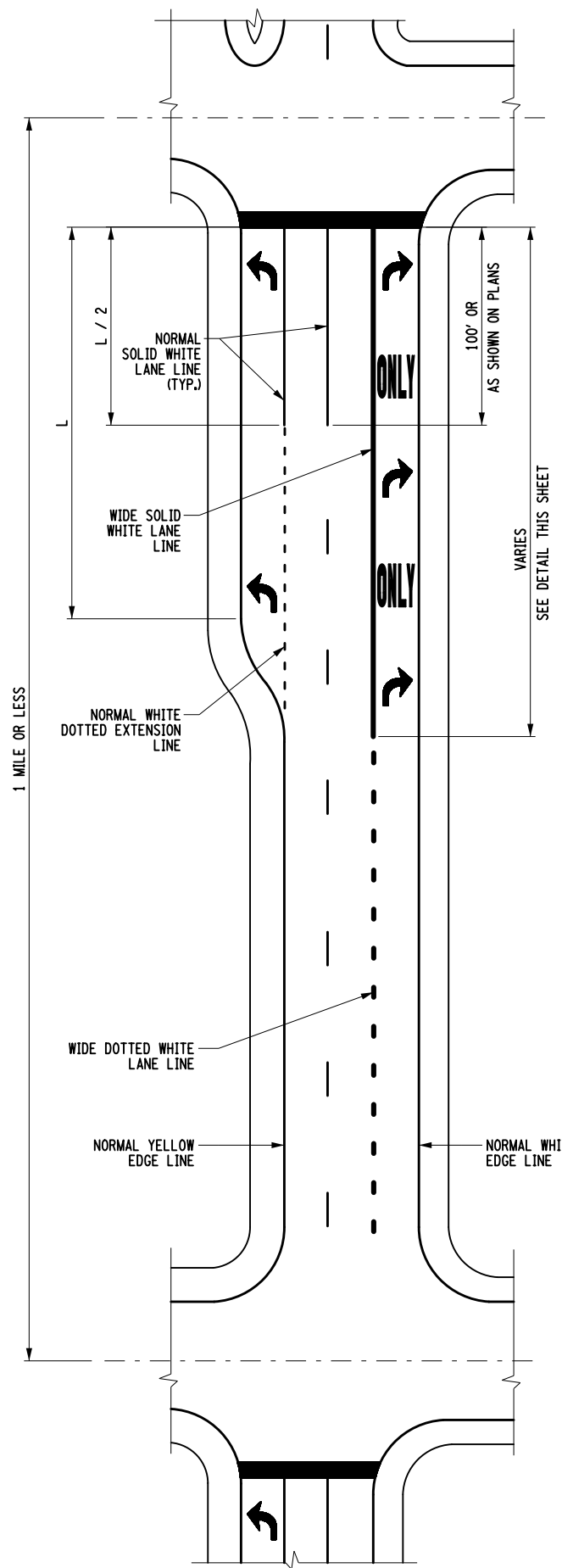
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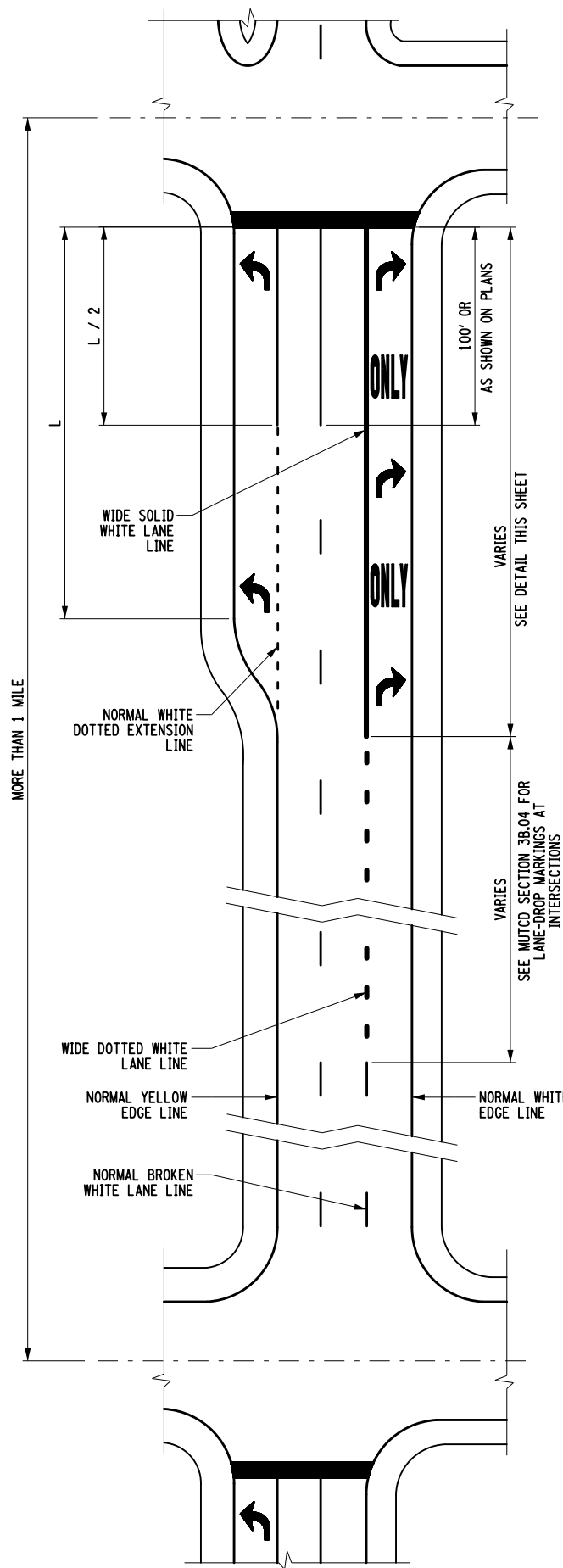
1. SEE STANDARD SHEET TITLED "PAVEMENT MARKING DETAILS - SHEET 1 OF 9" FOR LINE LAYOUT AND DIMENSIONS. (EXCEPT AS NOTED)
2. REFER TO STANDARD SHEET TITLED "PAVEMENT MARKING DETAILS - SHEET 1 OF 9" FOR GENERAL NOTES.

 STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION	
U.S. CUSTOMARY STANDARD SHEET	
PAVEMENT MARKING DETAILS (SHEET 5 OF 9)	
APPROVED SEPTEMBER 24, 2012	ISSUED UNDER EB 12-036
/s/ TODD B. WESTHUIS, P.E. ACTING DIRECTOR, OFFICE OF TRAFFIC SAFETY AND MOBILITY	685-01

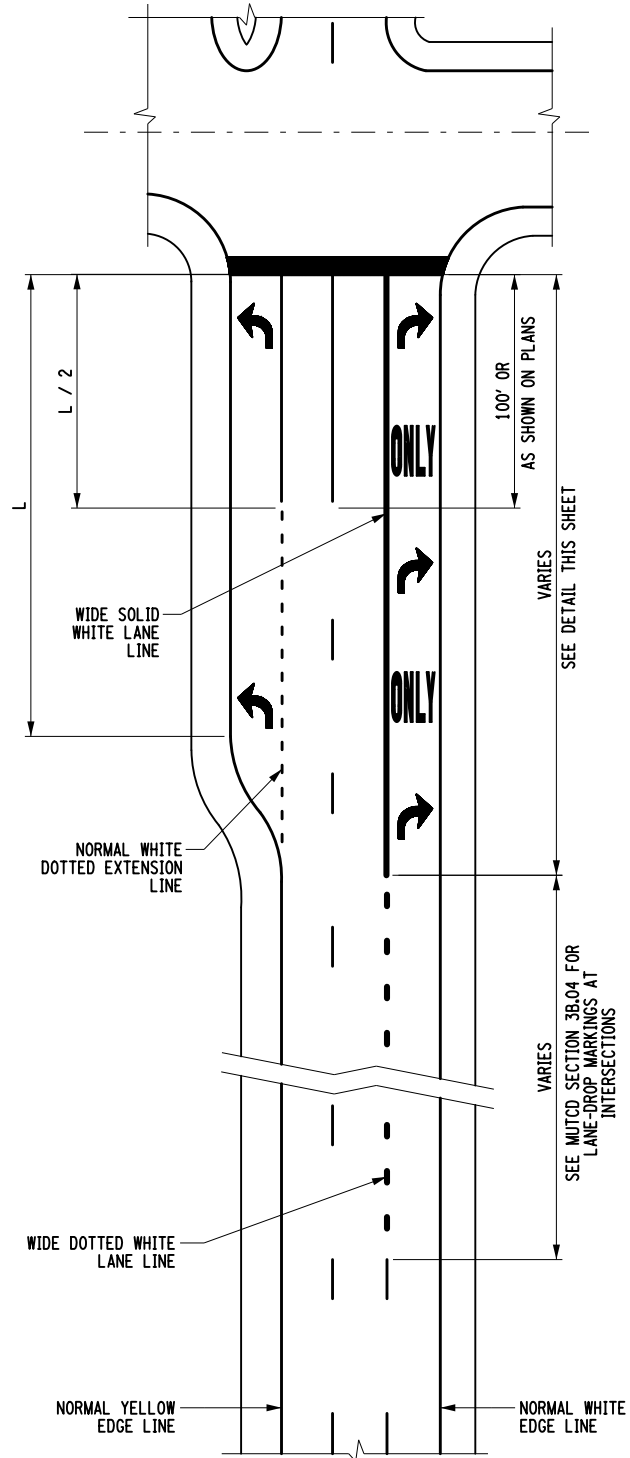
EFFECTIVE DATE: 05/02/2013



AUXILIARY LANE BETWEEN INTERSECTIONS
 LESS THAN OR EQUAL TO 1 MILE APART

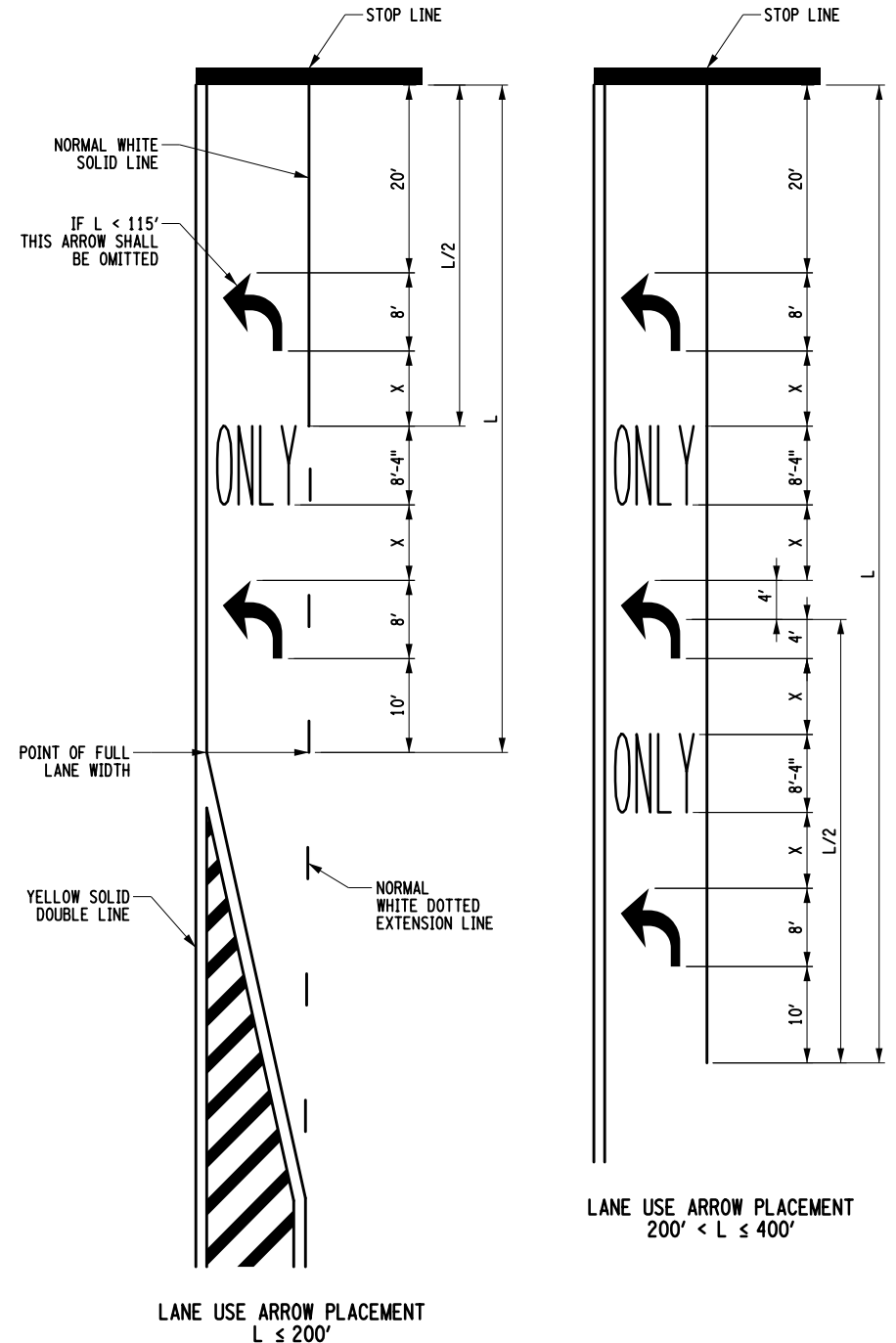


AUXILIARY LANE BETWEEN INTERSECTIONS
 GREATER THAN 1 MILE APART



LANE DROP AT INTERSECTION

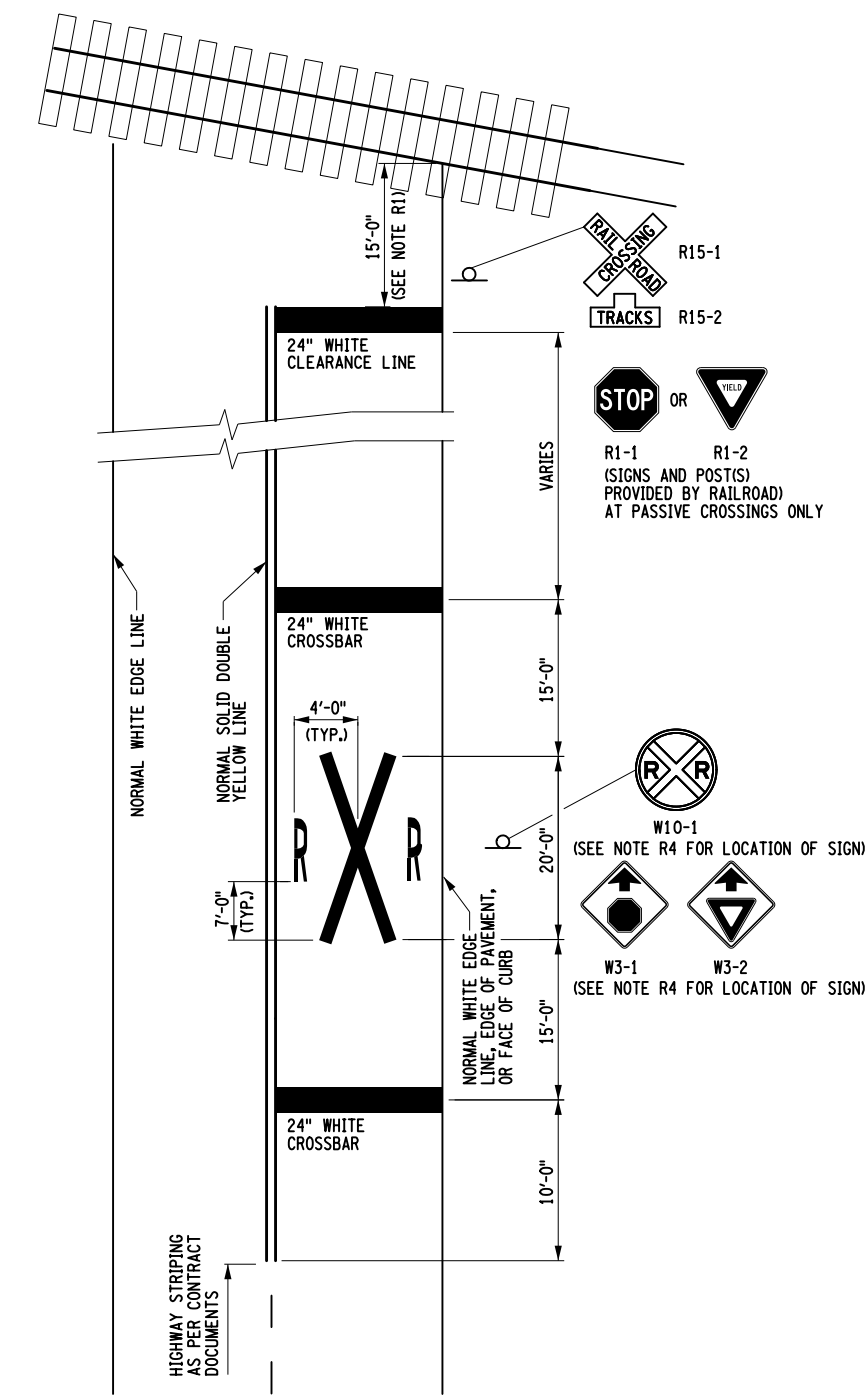
- SYMBOL SPACING NOTES:
- SPACING BETWEEN ARROWS AND "ONLY" (X) IS 32' MIN. AND 80' MAX. LOWER SPEED ROADS SHOULD HAVE CLOSER SPACING THAN HIGHER SPEED ROADS.
 - IF $L < 75'$ OR $L > 400'$, REFER TO CONTRACT DOCUMENTS OR REGIONAL TRAFFIC SAFETY AND MOBILITY GROUP FOR GUIDANCE ON SPACING OF ARROWS AND "ONLY".
 - ON AN UNCONTROLLED APPROACH (NO STOP SIGN, YIELD SIGN, OR TRAFFIC SIGNAL) OMIT STOP LINE.
 - IF INTERSECTION LANE CONTROL SIGNS (EG. R3-5) ARE NOT PROVIDED FOR THE LANE, THE "ONLY" MARKINGS SHALL BE DELETED.
 - ARROWS AND "ONLY" TO BE CENTERED IN THE LANE.



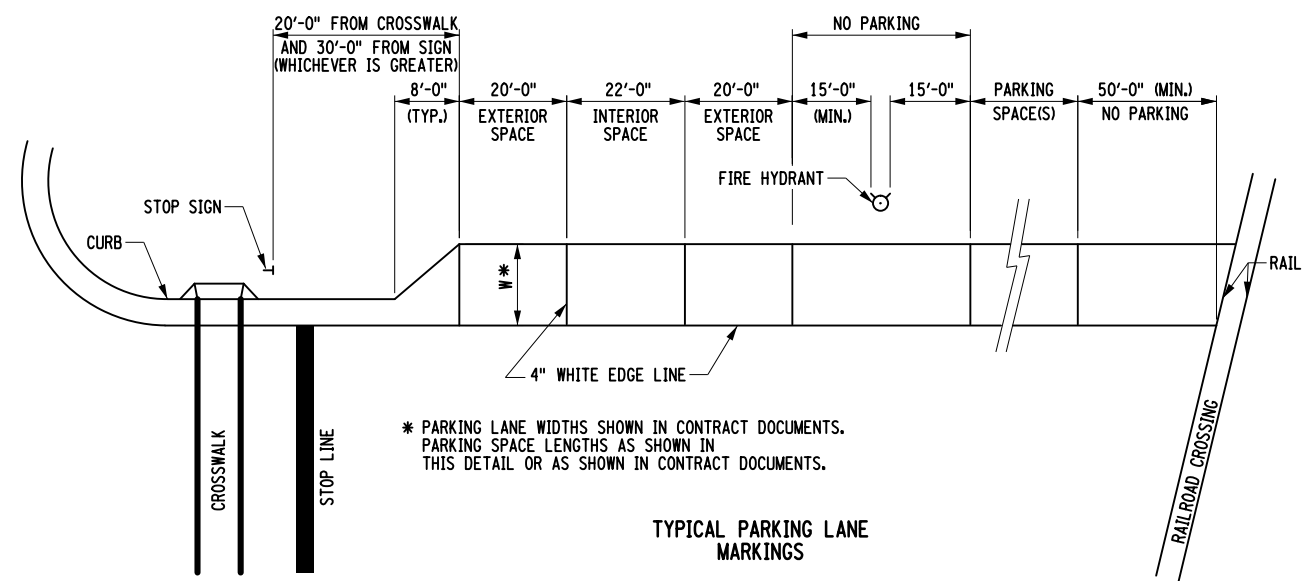
LANE USE ARROW PLACEMENT
 $L \leq 200'$

LANE USE ARROW PLACEMENT
 $200' < L \leq 400'$

	STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION	
	U.S. CUSTOMARY STANDARD SHEET	
PAVEMENT MARKING DETAILS (SHEET 6 OF 9)		
ERRATA 1 EFF. 01/09/2014 ISSUED WITH EB 13-042 EFFECTIVE DATE: 05/02/2013	APPROVED: OCTOBER 23, 2013 /S/ TODD B. WESTHUIS, P.E. DEPUTY CHIEF ENGINEER, TRAFFIC, SAFETY AND MOBILITY (ACTING)	ISSUED UNDER EB 12-036 685-01

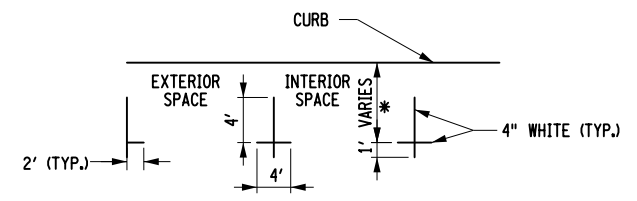


RAILROAD GRADE CROSSING MARKINGS AND LAYOUT PLAN

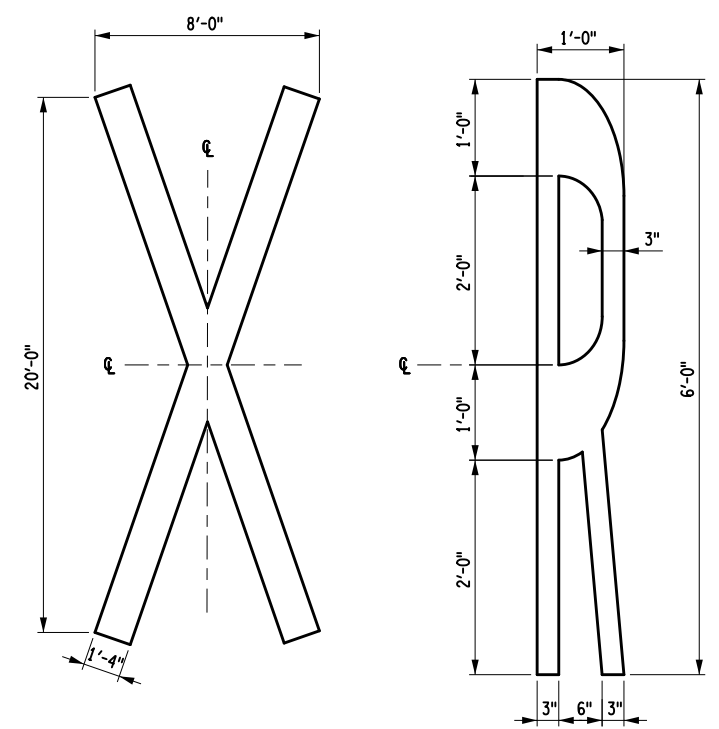


* PARKING LANE WIDTHS SHOWN IN CONTRACT DOCUMENTS.
 PARKING SPACE LENGTHS AS SHOWN IN THIS DETAIL OR AS SHOWN IN CONTRACT DOCUMENTS.

TYPICAL PARKING LANE MARKINGS



ALTERNATE PARKING LANE MARKINGS (NO EDGE LINE) (NOT TO SCALE)



(PAID AS 159' LINAR FEET)

(PAID AS ONE SYMBOL)

RAILROAD GRADE CROSSING

RAILROAD GRADE CROSSING NOTES:

- R1. WHERE THERE IS NO RAILROAD CROSSING GATE, THE CLEARANCE LINE SHOULD BE PERPENDICULAR TO THE ROADWAY, AND 15'-0" FROM THE NEAREST RAIL AT ITS CLOSEST POINT. WHERE THERE IS A GATE, THE CLEARANCE LINE SHOULD BE PARALLEL TO THE GATE IN ITS LOWERED POSITION, AND EITHER 15'-0" FROM THE NEAREST RAIL OR 8'-0" FROM THE GATE, WHICHEVER PLACES THE LINE FURTHER FROM THE CROSSING.
- R2. ON A MULTI-LANE APPROACH, THE CLEARANCE LINE AND CROSSBARS SHALL EXTEND ACROSS ALL LANES, AND A "RXR" SYMBOL SHALL BE PLACED IN EACH LANE.
- R3. REFER TO STANDARD SHEET TITLED "PAVEMENT MARKING DETAILS - SHEET 1 OF 9" FOR GENERAL NOTES.
- R4. IF A W3-1 OR W3-2 SIGN IS NOT REQUIRED IN ADVANCE OF THE GRADE CROSSING, THE W10-1 SHALL BE LOCATED IN ACCORDANCE WITH TABLE NY2C-4. IF A W3-1 OR W3-2 SIGN IS REQUIRED IN ADVANCE OF A GRADE CROSSING, IT SHALL BE LOCATED IN ACCORDANCE WITH TABLE NY2C-4 AND THE W10-1 SIGN SHALL BE LOCATED APPROXIMATELY 200'-0" IN ADVANCE OF THE W3-1 OR W3-2 SIGN.
- R5. A PORTION OF THE "RXR" MARKING MUST BE OPPOSITE THE W10-1 SIGN. 24" WHITE CROSS BARS ARE PLACED IN RELATION TO "RXR" MARKING. THE DISTANCE TO CLEARANCE LINE WILL VARY.
- R6. NORMAL SOLID DOUBLE YELLOW LINE TO BEGIN A MINIMUM OF 10'-0" UPSTREAM OF FIRST 24" WHITE CROSS BAR.

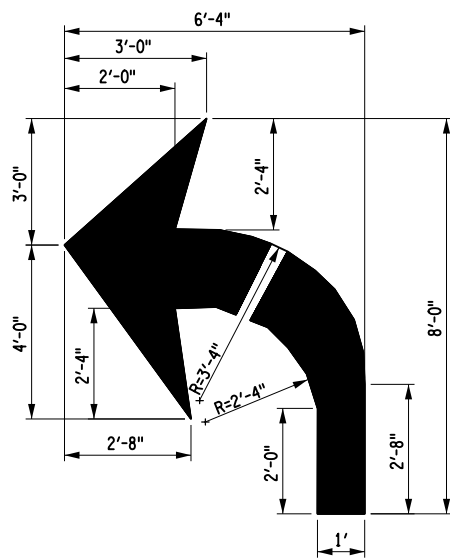
NEW YORK
STATE OF OPPORTUNITY.

Department of Transportation

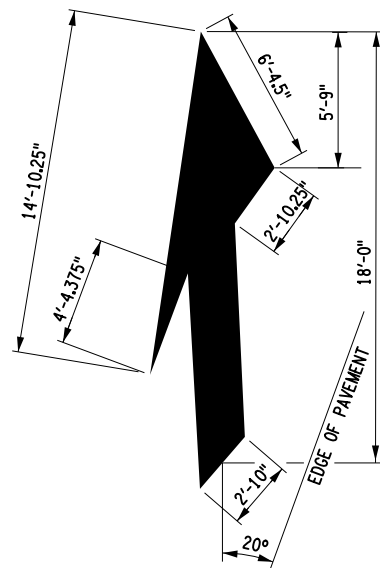
U.S. CUSTOMARY STANDARD SHEET

PAVEMENT MARKING DETAILS
(SHEET 7 OF 9)

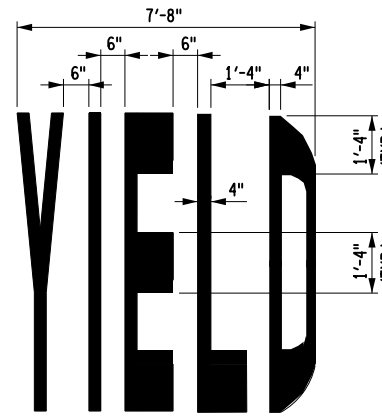
ERRATA 3 EFF. 05/01/2021 ISSUED WITH EB 21-006	APPROVED SEPTEMBER 24, 2012	ISSUED UNDER EB 12-036
ERRATA 2 EFF. 01/01/2020 ISSUED WITH EB 19-041	/S/ TODD B. WESTHUIS, P.E.	685-01
ERRATA 1 EFF. 01/01/2018 ISSUED WITH EB 17-041	ACTING DIRECTOR, OFFICE OF TRAFFIC SAFETY AND MOBILITY	



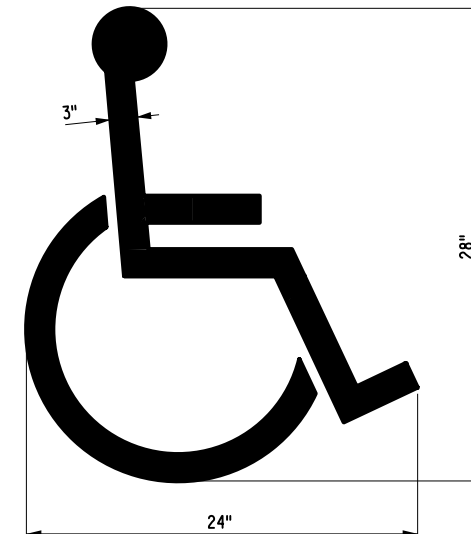
TURNING ARROW
(PAID AS ONE SYMBOL)



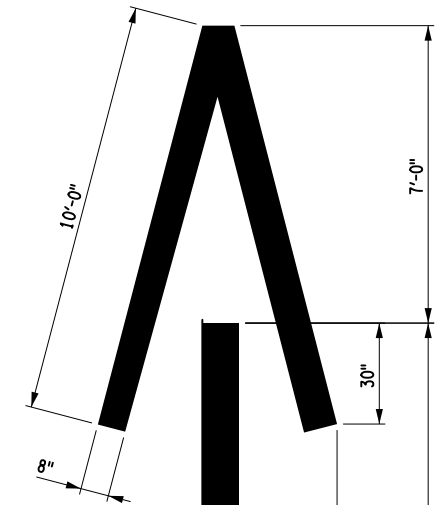
LANE REDUCTION ARROW
(PAID AS ONE SYMBOL)



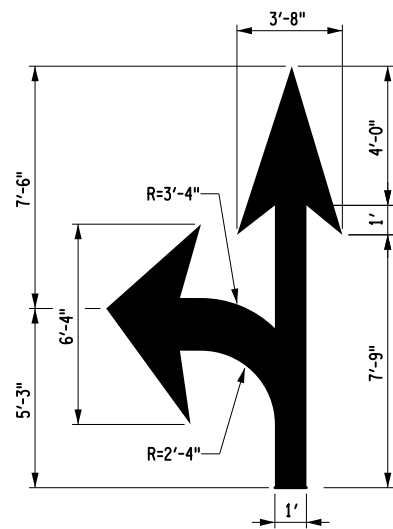
"YIELD" LETTERS
SEE NOTE
(PAID AS FIVE LETTERS)



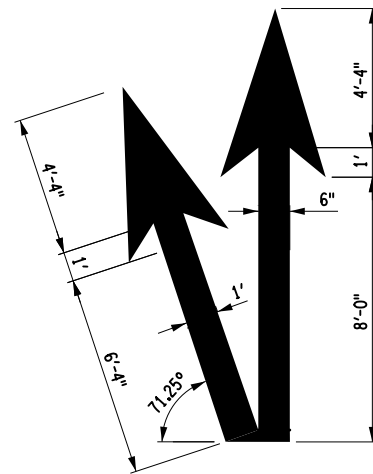
HANDICAPPED PARKING SYMBOL
(PAID AS ONE SYMBOL)



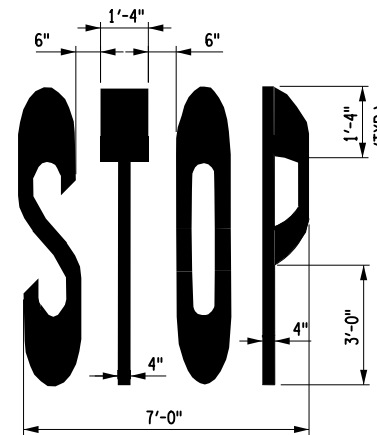
RAMP ARROW
(PAID AS 74 LINEAR FEET)



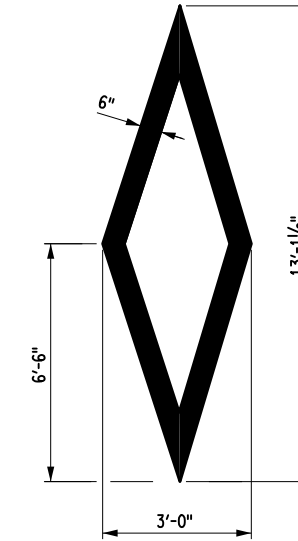
TURNING/STRAIGHT ARROW FOR SHARED LANE
(PAID AS ONE SYMBOL)



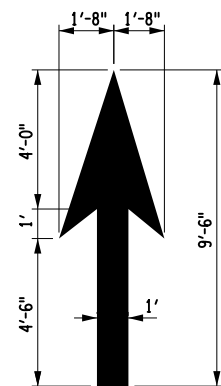
DIVERGE ARROW
(PAID AS ONE SYMBOL)



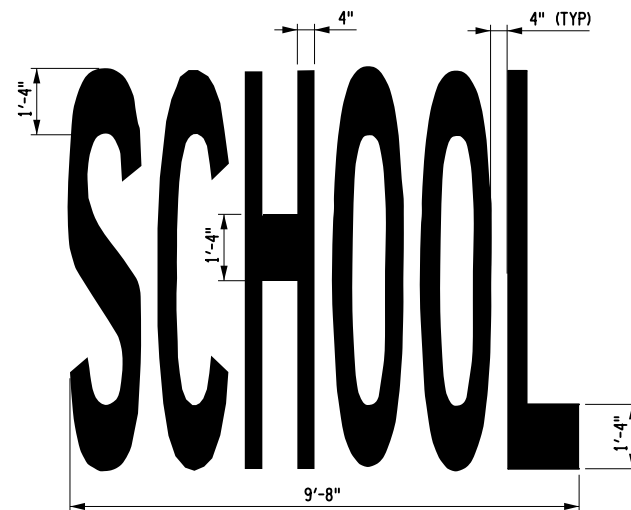
"STOP" LETTERS
SEE NOTE
(PAID AS FOUR LETTERS)



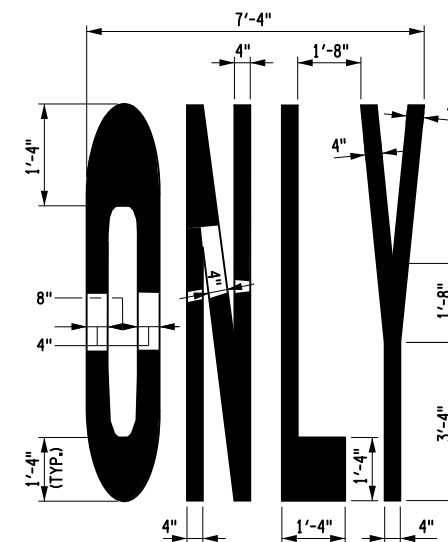
PREFERENTIAL LANE SYMBOL
(PAID AS 33 LINEAR FEET)



STRAIGHT ARROW
(PAID AS ONE SYMBOL)



"SCHOOL" LETTERS
SEE NOTE
(PAID AS SIX LETTERS)



"ONLY" LETTERS
SEE NOTE
(PAID AS FOUR LETTERS)

NOTES:

UNLESS OTHERWISE SHOWN:
LETTER HEIGHT = 8'-4"
LETTER WIDTH = 1'-4"
SPACING = 8"
(USE EQUAL SPACING BETWEEN LETTERS AND CENTER ENTIRE SYMBOL IN LANE)

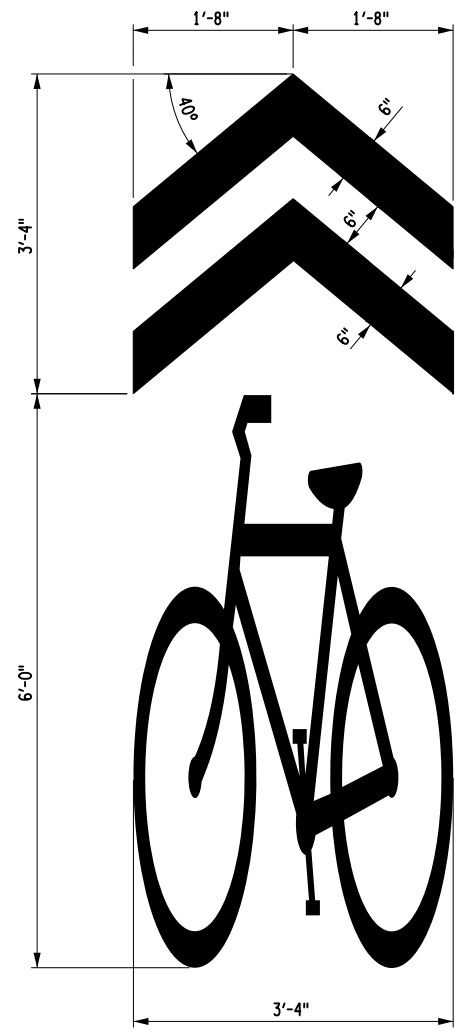


U.S. CUSTOMARY STANDARD SHEET

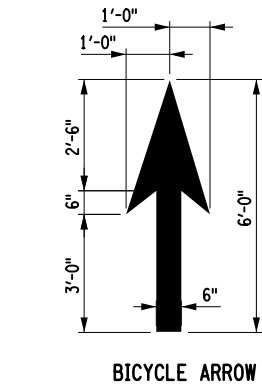
PAVEMENT MARKING DETAILS
(SHEET 8 OF 9)

ERRATA 3 EFF. 05/01/2021 ISSUED WITH EB 21-006
ERRATA 2 EFF. 01/01/2020 ISSUED WITH EB 19-041
ERRATA 1 EFF. 01/01/2018 ISSUED WITH EB 17-041

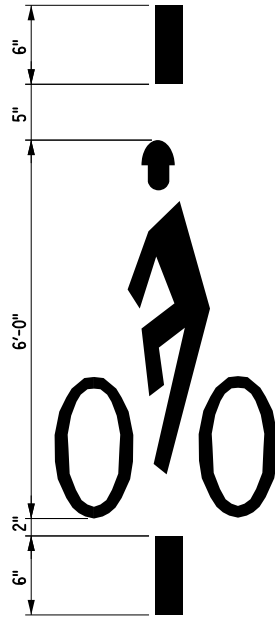
APPROVED SEPTEMBER 24, 2012	ISSUED UNDER EB 12-036
/S/ TODD B. WESTHUIS, P.E.	
ACTING DIRECTOR, OFFICE OF TRAFFIC SAFETY AND MOBILITY	685-01



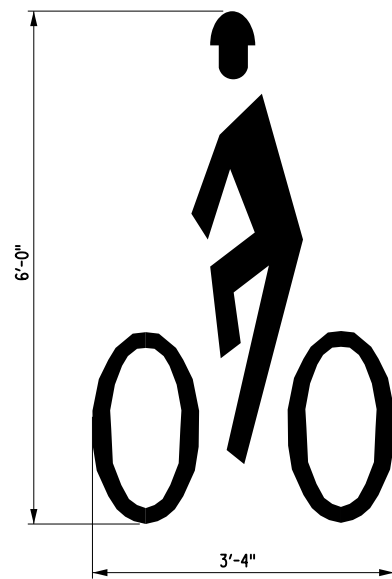
SHARED LANE USE MARKING DETAIL
(CHEVRON PAID AS 14 LINEAR FEET)
(BICYCLE PAID AS ONE SYMBOL)



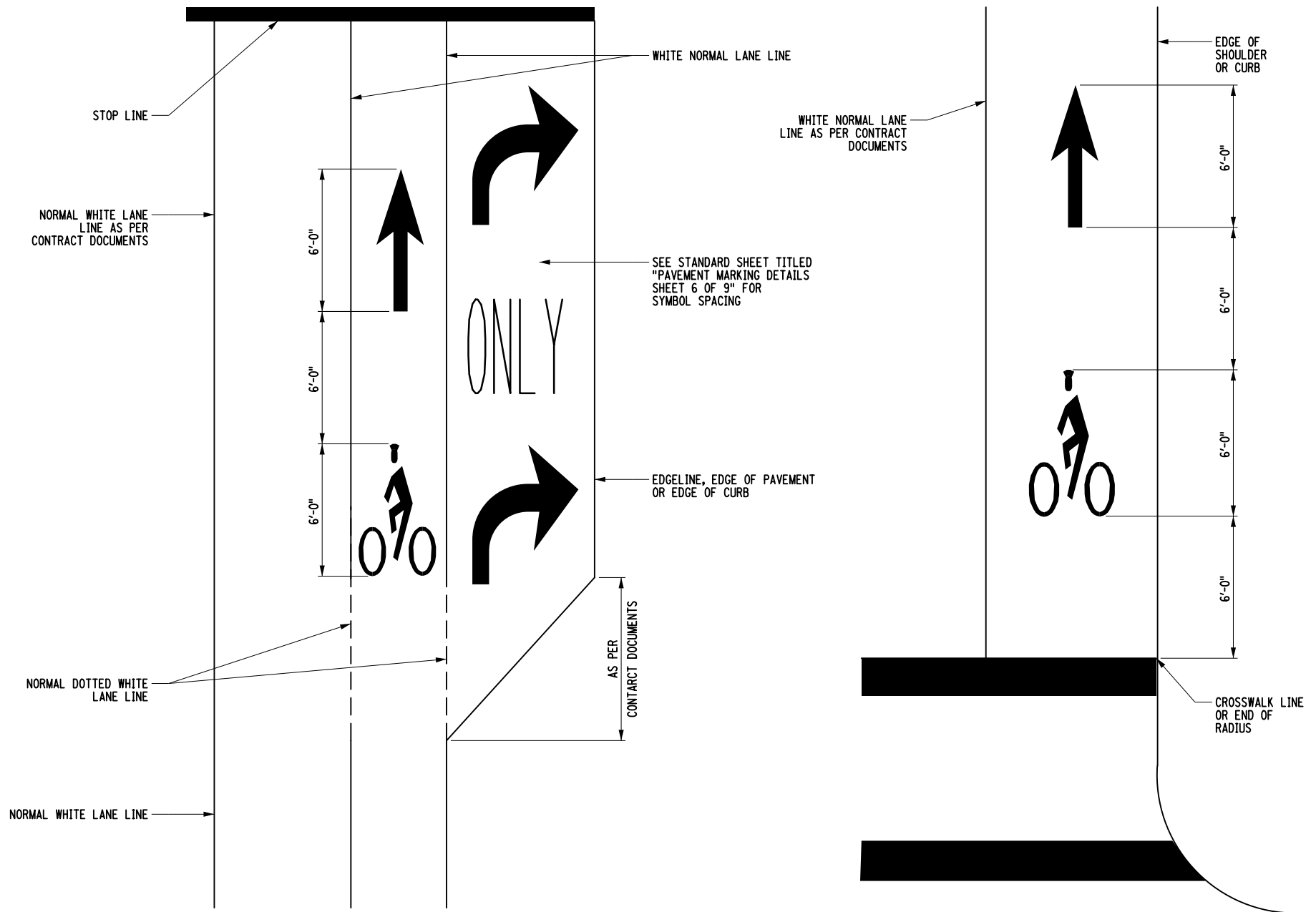
BICYCLE ARROW



BICYCLE DETECTOR MARKER
(BICYCLE AND ARROW COMBINATION PAID AS ONE SYMBOL)



BICYCLE SYMBOL
(PAID AS ONE SYMBOL)



BICYCLE LANE MARKING ADJACENT TO RIGHT TURN LANE

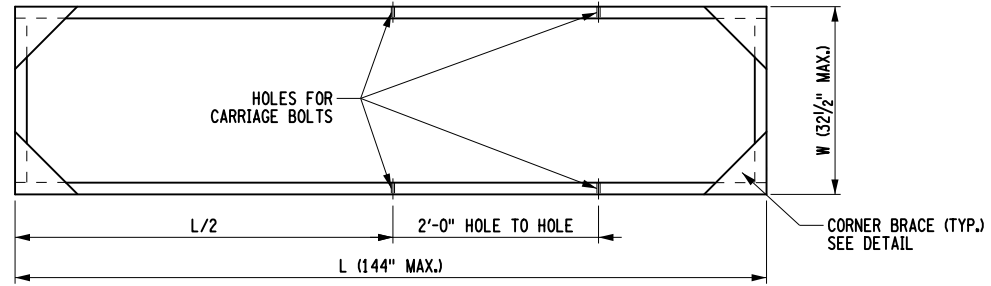
BICYCLE LANE MARKING

BICYCLE LANE MARKING NOTES:

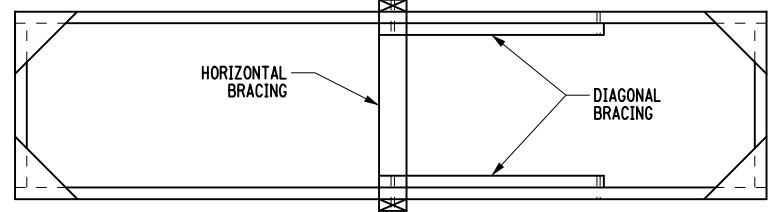
- B1. CENTER SYMBOL IN BICYCLE LANE OR SHOULDER.
- B2. PLACE BICYCLE LANE ARROW AND SYMBOL DOWNSTREAM OF MAJOR OR SIGNALIZED INTERSECTIONS.
 - PLACE BICYCLE SYMBOL AT 1320'-0" SPACING ALONG BICYCLE LANE OR AS INDICATED IN THE CONTRACT DOCUMENTS.
 - PLACE BICYCLE LANE ARROW AND SYMBOL 200'-0" UPSTREAM OF MAJOR OR SIGNALIZED INTERSECTIONS.
- B3. MARKINGS AS PER THE DIRECTIONS OF THE REGIONAL OFFICE OF TRAFFIC SAFETY AND MOBILITY GROUP OR AS PER PLAN. SIGNS SHALL BE USED WITH THE BICYCLE LANE.

ERRATA 4 EFF. 09-01-2022 ISSUED WITH EB 22-037
ERRATA 3 EFF. 05-01-2021 ISSUED WITH EB 21-006
ERRATA 2 EFF. 01-01-2020 ISSUED WITH EB 19-041
ERRATA 1 EFF. 01-01-2018 ISSUED WITH EB 17-041

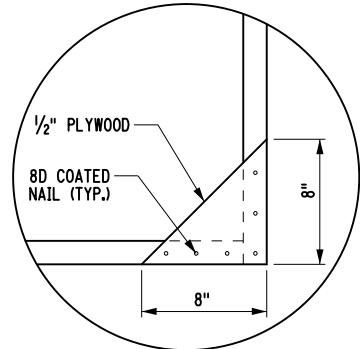
NEW YORK STATE OF OPPORTUNITY.		Department of Transportation	
U.S. CUSTOMARY STANDARD SHEET			
PAVEMENT_MARKING_DETAILS (SHEET 9 OF 9)			
APPROVED SEPTEMBER 24, 2012		ISSUED UNDER EB 12-036	
/S/ TODD B. WESTHUIS, P.E.			
ACTING DIRECTOR, OFFICE OF TRAFFIC SAFETY AND MOBILITY		685-01	



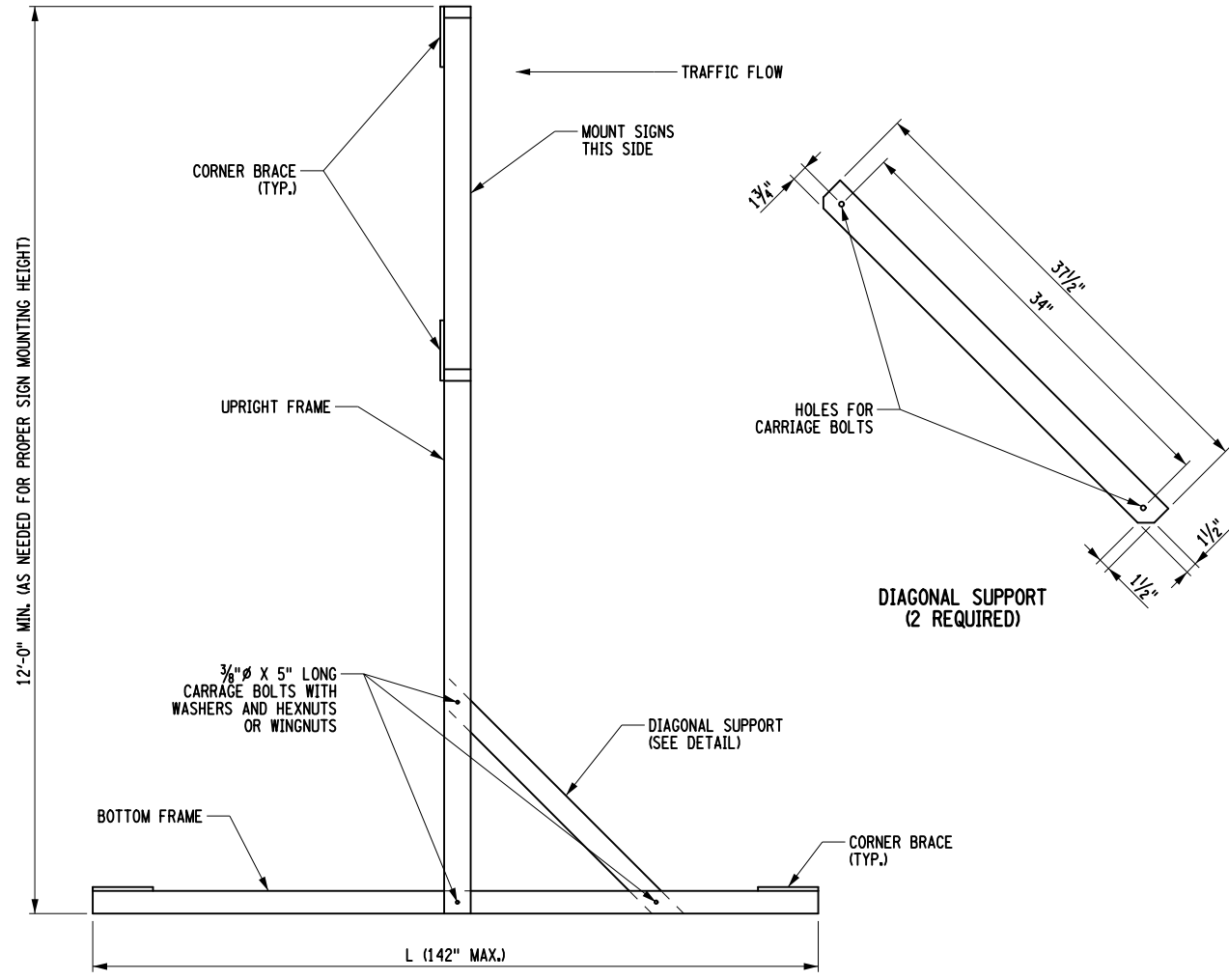
**BOTTOM FRAME
TOP VIEW**



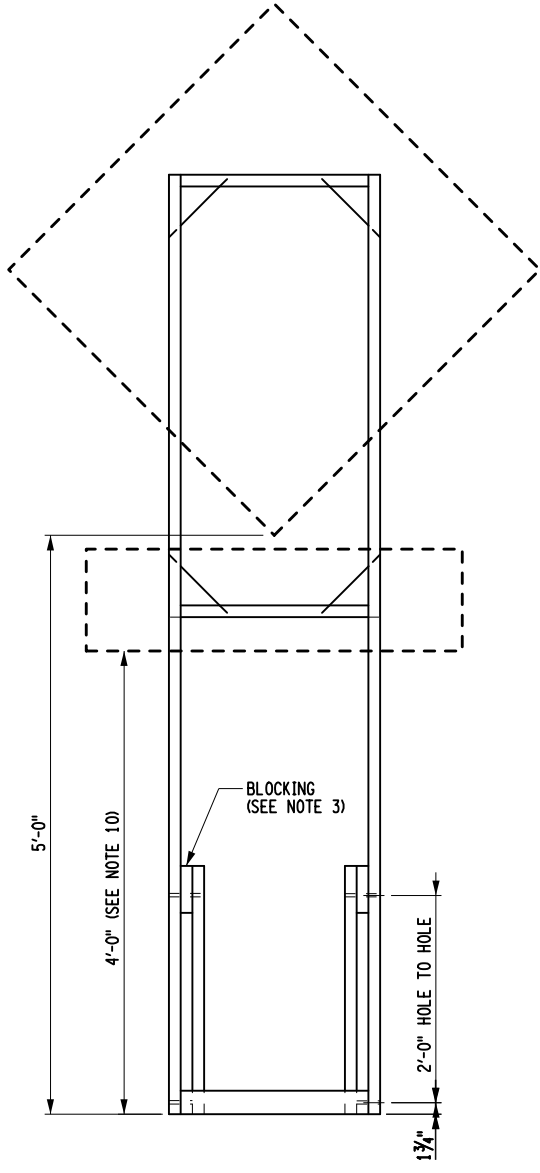
**TEMPORARY WOODEN SIGN STAND
TOP VIEW**



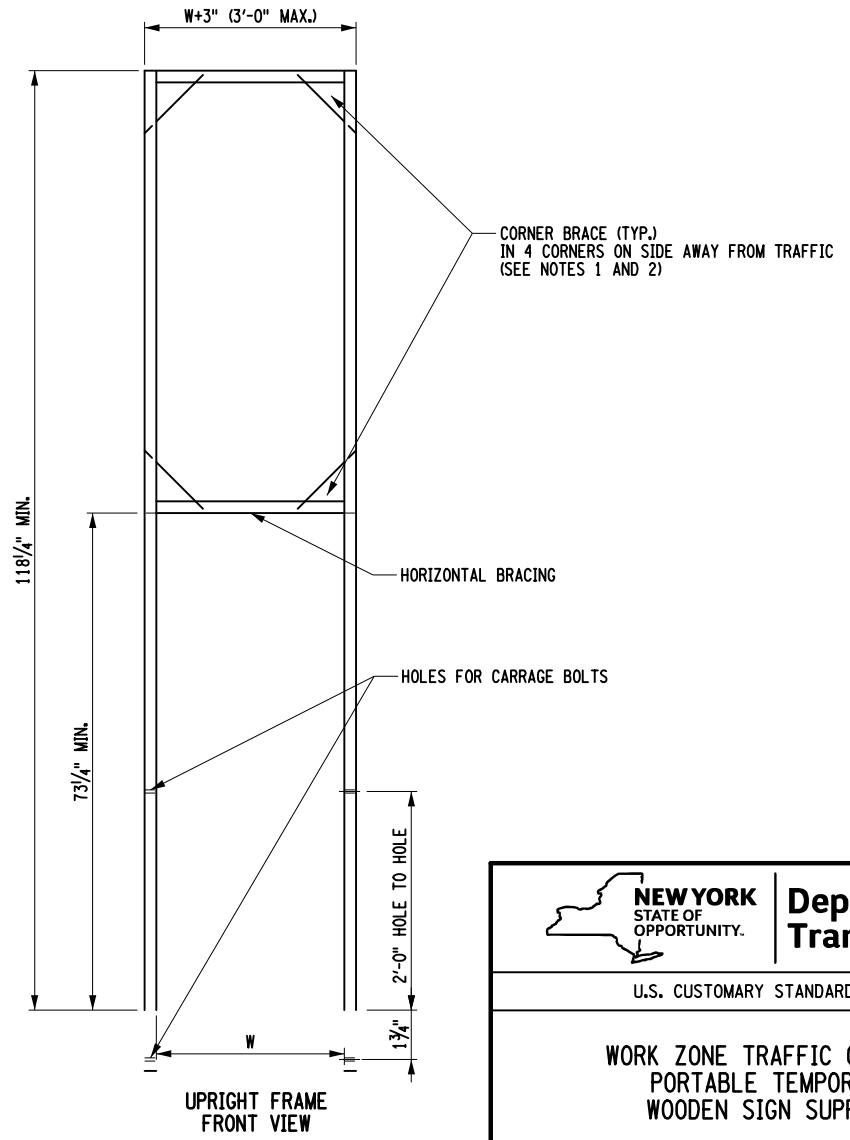
**CORNER BRACE DETAIL
(TO BE USED ON UPRIGHT AND BOTTOM FRAMES)**



**TEMPORARY WOODEN SIGN STAND
SIDE VIEW**



**TEMPORARY WOODEN SIGN STAND
FRONT VIEW**




**UPRIGHT FRAME
FRONT VIEW**

NOTES:

1. ALL LUMBER SHALL BE 2 X 4 DIMENSIONAL LUMBER. CONNECT FRAME MEMBERS WITH 2 EACH 12D COATED NAILS.
2. ALL HOLES SHALL BE DRILLED IN CENTERLINE OF FRAME MEMBERS AND DIAGONAL BRACES.
3. 6" BLOCK SPACER MAY BE USED BETWEEN DIAGONAL BRACE AND VERTICAL SUPPORT.
4. CONNECT FRAME CORNER BRACES TO FRAME MEMBERS WITH 6 EACH - 8D COATED NAILS. (3 NAILS INTO EACH FRAME MEMBER).
5. UPRIGHT FRAME MOUNTS ON THE OUTSIDE OF THE BOTTOM FRAME.
6. PAINT SIGN SUPPORT WITH 2 COATS OF WHITE PAINT.
7. DIAGONAL SUPPORTS MOUNT INSIDE BOTH UPRIGHT AND BOTTOM FRAMES. ALL UPRIGHT DIAGONAL BRACING SHALL BE SLOPED SUCH THAT BRACING COLLAPSES DOWNWARD UPON IMPACT BY A VEHICLE.
8. A SINGLE LAYER OF BALLAST PLACED ON THE BOTTOM FRAME MAY BE USED TO PREVENT SIGNS FROM TIPPING OVER FROM WIND AND VEHICLE GUSTS.
9. NO HORIZONTAL BRACING ALLOWED BETWEEN 2' AND 5' ON UPRIGHT VERTICALS, MEASURED FROM THE BOTTOM OF THE SKID BASE.
10. 5' MINIMUM SIGN MOUNTING HEIGHT, MEASURED FROM THE BOTTOM OF THE SKID BASE TO THE BOTTOM OF THE SIGN. VERTICAL SUPPORTS SHALL BE TALL ENOUGH TO ALLOW FOR HIGHER MOUNTING HEIGHTS FOR THOSE LOCATIONS REQUIRED BY THE MUTCD (I.E. SIDEWALKS, ROADSIDE PARKING AND EMBANKMENTS).
11. CONNECTIONS ALLOW FOR THE FOLDING, TRANSPORT AND STORAGE OF THE SUPPORT. WHEN FOLDED IN THE DOWN POSITION WITHIN THE CLEAR ZONE, THE MAXIMUM ASSEMBLY HEIGHT SHALL NOT EXCEED 4". SIMILAR NON-FOLDING SUPPORTS SHALL BE STORED OUTSIDE THE CLEAR ZONE OR BEHIND A BARRIER.
12. L = LENGTH OF BOTTOM FRAME.
W = WIDTH OF BOTTOM FRAME.

FILE NAME = 619-004.dgn
DATE/TIME = 06-DEC-2021 14:31
USER = obostrwright

 Department of Transportation	
U.S. CUSTOMARY STANDARD SHEET	
WORK ZONE TRAFFIC CONTROL PORTABLE TEMPORARY WOODEN SIGN SUPPORT	
APPROVED DECEMBER 2, 2021	ISSUED UNDER EI 21-028
Robert Limoges ROBERT LIMOGES, P.E. DIRECTOR, OTSM	619-004

GENERAL NOTES

1. THE TYPICAL DETAILS DEPICTED ON THE STANDARD SHEETS AND IN THE MUTCD, REFLECT THE MINIMUM REQUIREMENTS.
2. PROPOSED REVISIONS TO THE TRAFFIC CONTROL PLAN SHALL BE PROVIDED, IN WRITING, TO THE DOT ENGINEER FOR REVIEW AND APPROVAL BY THE REGIONAL DIRECTOR OR HIS/HER DESIGNEE FIVE (5) WORK DAYS PRIOR TO THE PLANNED IMPLEMENTATION OF SUCH PROPOSED REVISIONS, EXCEPT FOR CHANGES THAT ALTER THE SCOPE OF THE TRAFFIC CONTROL PLAN. SUCH CHANGES IN SCOPE MUST BE SUBMITTED TO THE ENGINEER FOR APPROVAL BY THE REGIONAL DIRECTOR OR HIS/HER DESIGNEE THIRTY (30) WORKING DAYS PRIOR TO IMPLEMENTATION OF SUCH REVISIONS.
3. THE NAMES, ADDRESSES, AND TELEPHONE NUMBERS OF STAFF WHO ARE AUTHORIZED TO SECURE LABOR, MATERIALS, AND EQUIPMENT FOR EMERGENCY REPAIRS OUTSIDE NORMAL WORKING HOURS SHALL BE PROVIDED, IN WRITING, TO THE DOT ENGINEER. THE ENGINEER WILL PROVIDE THE SUBMITTED INFORMATION TO REGIONAL MANAGEMENT, THE NEW YORK STATE POLICE, THE RESIDENT ENGINEER, AND THE LOCAL POLICE.
4. STANDARD SHEET 619-503 MAY BE USED FOR AN OFFSITE DETOUR SETUP FOR BOTH LONG TERM AND SHORT TERM WORK DURATIONS.
5. FOLLOW REGIONAL HIGH-VOLUME RESTRICTIONS. CONSULT WITH DOT ENGINEER IF EXCEPTION NEEDED.
6. PLAN AHEAD TO AVOID CONFLICTING WORK ZONES. CHECK FOR CONSTRUCTION PROJECTS, CLOSURES, & RESTRICTIONS AT WWW.511.NY.ORG, WWW.DOT.NY.GOV/PROJECTS, AND WITH DOT ENGINEER.
7. DOCUMENT AND REPORT WORK ZONE INCIDENTS USING EITHER THE DEPARTMENT'S WORK ZONE INCIDENT FORM, OR THE CONSTRUCTION INCIDENT REPORTING SYSTEM, AS APPROPRIATE.
8. CONSIDER CLOSURE WIDTH & CLEAR WIDTH FOR WIDE VEHICLES ON WIDE LOAD ROUTES.

ACTIVITY AREA

1. A 500' MINIMUM LONGITUDINAL DISTANCE SHALL BE MAINTAINED BETWEEN CONSTRUCTION OPERATIONS ON ALTERNATE SIDES OF THE ROADWAY, UNLESS OTHERWISE APPROVED BY THE ENGINEER.
2. WHEN TWO OR MORE AREAS ARE ADJACENT, OVERLAP, OR ARE IN CLOSE PROXIMITY, THE CONTRACTOR SHALL ENSURE THERE ARE NO CONFLICTING SIGNS AND THAT LANE CONTINUITY IS MAINTAINED THROUGHOUT ALL WORK AREAS.

SIGNS

1. THE LOCATIONS OF THE SIGNS SHOWN ON THE WORK ZONE TRAFFIC CONTROL PLANS AND DETAILS MAY BE ADJUSTED BASED ON SIGHT DISTANCE AND OTHER CONSIDERATIONS. THE FINAL LOCATIONS OF SIGNS ARE SUBJECT TO APPROVAL OF THE ENGINEER.
2. FOR LONG TERM WORK DURATIONS, ANY EXISTING SIGNS, INCLUDING OVERHEAD SIGNS, WHICH CONFLICT WITH THE TEMPORARY TRAFFIC CONTROL SIGN LAYOUT SHALL BE COVERED, REMOVED, STORED OR RESET, AS APPROVED BY THE ENGINEER. ALL APPROPRIATE EXISTING SIGNS SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AND/OR LOCATION UNLESS OTHERWISE REPLACED IN THIS CONTRACT.
3. SIGNS AT OR NEAR INTERSECTIONS SHALL BE PLACED SO THAT THEY DO NOT OBSTRUCT A MOTORIST'S LINE OF SIGHT.
4. SIGNS MOUNTED ON THE MEDIAN OF DIVIDED HIGHWAYS WHERE MEDIAN BARRIER IS IN PLACE MAY BE MOUNTED ON THE BARRIER WITH A SADDLE TYPE BRACKET OR OMITTED WITH THE APPROVAL OF THE DOT ENGINEER. LAYING THE SIGN DOWN IN A HORIZONTAL POSITION IS NOT PERMITTED.
5. THE DIMENSIONS OF WORK ZONE TRAFFIC CONTROL SIGNS ARE DESCRIBED IN THE MUTCD. ANY CHANGES TO THE DIMENSIONS SHALL BE APPROVED BY THE REGIONAL DIRECTOR OR BY HIS/HER DESIGNEE.
6. NYR9-12 SHALL BE USED IN PLACE OF NYR9-11 WHEN A REDUCED REGULATORY SPEED LIMIT SIGN IS AUTHORIZED.
7. RIGID AND FLEXIBLE "ROLL-UP" SIGNS MAY BE USED FOR MOBILE, SHORT DURATION AND SHORT-TERM STATIONARY WORK. RIGID SIGNS MUST BE MOUNTED AT LEAST 5 FEET ABOVE GRADE (7 FEET WHERE THERE ARE PEDESTRIANS OR PARKED CARS). FLEXIBLE SIGNS SHALL BE MOUNTED AT LEAST ONE FOOT ABOVE GRADE. MESH SIGNS SHALL NOT BE USED. USE RETRO REFLECTORIZED RIGID SIGNS FOR NIGHTTIME WORK.

CHANNELIZING DEVICES

1. WHERE POSSIBLE ALL CHANNELIZING AND GUIDING DEVICES ARE TO BE PLACED SO AS TO PROVIDE A MINIMUM 2' LATERAL CLEARANCE TO THE TRAVELED WAY.

PUBLIC ACCESS

1. PROPERTY OWNERS WHOSE DRIVEWAYS WILL BE MADE INACCESSIBLE SHALL BE NOTIFIED AT LEAST 24 HOURS PRIOR TO RESTRICTING USE OF THE DRIVEWAY. FOR MULTIPLE ACCESS PROPERTIES, AT LEAST ONE DRIVEWAY SHALL BE OPEN AT ALL TIMES. ACCESS SHALL BE RESTORED TO ALL DRIVEWAYS AS SOON AS POSSIBLE.
2. SUITABLE RAMPS SHALL BE INSTALLED TO MAINTAIN SMOOTH TRANSITIONS FROM RESIDENTIAL AND COMMERCIAL DRIVEWAYS TO AND FROM THE WORK AREA.

LANE CLOSURES

1. LANE CLOSURES SHALL BE LOCATED TO PROVIDE OPTIMUM VISIBILITY, I.E. BEFORE CURVES AND CRESTS, TO THE EXTENT CONDITIONS PERMIT.
2. THE ENGINEER MAY REQUIRE THAT ALL LANES BE RE-OPENED AT ANY TIME IF THE ROUTE IS NEEDED FOR EMERGENCY PURPOSES. THIS COULD INCLUDE INCIDENTS AT LOCATIONS OUTSIDE THE CONTRACT LIMITS.
3. ARROW PANELS SHALL BE LEGIBLE CONTINUOUSLY FROM ANY POINT WITHIN THE ROADWAY (INCLUDING OF SHOULDERS) FROM 1,500 FEET IN ADVANCE OF THE LANE CLOSURE TAPER TO THE BEGINNING OF THE LANE CLOSURE TAPER.

LANE WIDTHS

1. UNLESS AUTHORIZED BY THE ENGINEER, THE MINIMUM LANE WIDTHS FOR WORK ZONE TRAVEL LANES SHALL BE AS FOLLOWS: FREEWAYS AND/OR EXPRESSWAYS IS 11'. THE MINIMUM LANE WIDTH FOR ALL OTHER TYPES OF ROADWAYS IS 10'.
2. A WRITTEN NOTE SHALL BE PROVIDED TO THE ENGINEER, A MINIMUM OF 21 CALENDAR DAYS IN ADVANCE OF PERFORMING ANY WORK THAT RESULTS IN THE REDUCED WIDTH OF AN EXISTING ROADWAY, SO THAT THE ENGINEER MAY NOTIFY THE REGIONAL PERMIT ENGINEER IN A TIMELY MANNER.

PROTECTIVE VEHICLES

1. A PROTECTIVE VEHICLE IS A LARGE DUMP TRUCK, A LARGE RACK TRUCK OR OTHER VEHICLE HAVING A GROSS WEIGHT OF AT LEAST 24,000 POUNDS. IF THE PROTECTIVE VEHICLE ENCROACHES INTO THE TRAVEL LANE, OR IF IT REMAINS ENTIRELY ON THE SHOULDER OF ANY HIGH SPEED ROAD (45 MPH OR HIGHER), IT SHALL BE EQUIPPED WITH A DEPLOYED TRUCK/TRAILER MOUNTED IMPACT ATTENUATOR (TMIA, SEE TABLE 011-01 ON SHEET 619-11). PROTECTIVE VEHICLES MAY BE LOADED WITH SAND, GRAVEL, OR FINE AGGREGATE AS BALLAST TO ENHANCE THE VEHICLE'S GROSS WEIGHT. ANY BALLAST ADDED TO ENHANCE THE VEHICLE'S GROSS WEIGHT SHALL BE SECURED AS NOT TO BECOME DISLODGED IF IMPACTED.
2. A PROTECTIVE VEHICLE USED IN A MOVING OPERATION IS REFERRED TO AS A SHADOW VEHICLE.
3. A PROTECTIVE VEHICLE USED IN A STATIONARY OPERATION IS REFERRED TO AS A BARRIER VEHICLE.
4. IN A MOVING OPERATION OR A STATIONARY OPERATION THAT OCCUPIES A LOCATION FOR UP TO 1 HOUR, THE OPERATOR SHALL REMAIN IN THE PROTECTIVE VEHICLE WITH THE SAFETY BELT AND HEADREST PROPERLY ADJUSTED, MAINTAIN VEHICLE SPACING, AND KEEP THE WHEELS ALIGNED WITH THE LANE STRIPING. TWO-WAY RADIOS SHOULD BE USED TO COMMUNICATE BETWEEN THE OPERATOR AND THE WORK CREW.
5. IN A STATIONARY OPERATION THAT OCCUPIES A LOCATION FOR MORE THAN 1 HOUR, ONCE THE PROTECTIVE VEHICLE HAS BEEN APPROPRIATELY PLACED, IT SHOULD BE UNOCCUPIED. UNOCCUPIED VEHICLE SHALL BE POSITIONED PARALLEL TO TRAFFIC, PARKING BRAKE SET, PLACED IN 2ND GEAR (MANUAL TRANSMISSIONS /ENGINE OFF) OR PARK / NEUTRAL (AUTOMATIC TRANSMISSIONS) AND HAVE THE FRONT WHEELS ALIGNED WITH THE LANE STRIPING AND LANE TO MAINTAIN LANE DISCIPLINE AND TO STAY IN LANE IF STRUCK.
6. WHEN A PROTECTIVE VEHICLE IS USED IN ADVANCE OF EITHER MOVING OR STATIONARY OPERATIONS TO DISPLAY SIGN MESSAGES, IT IS REFERRED TO AS AN ADVANCE WARNING VEHICLE. ADVANCED WARNING VEHICLES MAY BE OCCUPIED OR UNOCCUPIED. WHEN SIGNS ARE MOUNTED ON AN ADVANCED WARNING VEHICLE, THEY SHALL NOT OBSTRUCT VISIBILITY OF ANY LIGHTS (TAILLIGHTS OR WARNING LIGHTS) OR SIDE-VIEW MIRRORS ON THE VEHICLE.
7. NO WORK ACTIVITY, EQUIPMENT, VEHICLES AND/OR MATERIALS SHALL BE LOCATED BETWEEN THE PROTECTIVE VEHICLE AND THE ACTIVE WORK AREA (ROLL AHEAD DISTANCE).
8. PROTECTIVE VEHICLES MAY BE REQUIRED IN CONJUNCTION WITH POLICE PRESENCE IN THE WORK ZONE, TO BE INCLUDED IN THE UNIT BID PRICE FOR BASIC WORK ZONE TRAFFIC CONTROL, FOR CAPITOL CONSTRUCTION PROJECTS.
9. DIRECT VERBAL COMMUNICATION BETWEEN THE PROTECTIVE VEHICLES AND THE WORK VEHICLE(S) / EQUIPMENT SHALL BE UTILIZED WHERE AVAILABLE.

WORK DURATION DEFINITIONS

1. THERE ARE MAINLY FIVE WORK DURATIONS:
 - A. LONG-TERM IS STATIONARY WORK THAT OCCUPIES A LOCATION MORE THAN 3 CONSECUTIVE DAYS.
 - B. INTERMEDIATE-TERM IS STATIONARY WORK THAT OCCUPIES A LOCATION MORE THAN ONE DAYLIGHT PERIOD UP TO 3 CONSECUTIVE DAYS, OR NIGHTTIME WORK LASTING MORE THAN 1 HOUR.
 - C. SHORT-TERM IS STATIONARY DAYTIME WORK THAT OCCUPIES A LOCATION FOR MORE THAN 1 HOUR WITHIN A SINGLE DAYLIGHT PERIOD.
 - D. SHORT DURATION IS WORK THAT OCCUPIES A LOCATION UP TO 1 HOUR. IT CAN BE PERFORMED DURING THE DAYTIME OR AT NIGHT IN ACCORDANCE WITH NOTES N1 TO N10 NOTES ON NIGHTTIME WORK.
 - E. MOBILE IS WORK THAT MOVES INTERMITTENTLY OR CONTINUOUSLY WHERE THE WORK AT ANY SPECIFIC LOCATION COMPLETES WITHIN 15 MINUTES. IT IS USED FOR VEHICLE BASED OPERATIONS AND DOES NOT INVOLVE WORKERS ON FOOT. IT CAN BE PERFORMED DURING THE DAYTIME OR AT NIGHT IN ACCORDANCE WITH NOTES N1 TO N10 NOTES ON NIGHTTIME WORK.
2. SPECIAL OPERATIONS ARE WORK OPERATIONS THAT DO NOT FIT INTO ONE OF THE ABOVE FIVE CATEGORIES. SPECIAL OPERATIONS INCLUDE:
 - A. STOP AND GO OPERATIONS - WORK THAT COMPLETES WITHIN 5 MINUTES AND ALLOWS WORKERS ON FOOT.
 - B. OTHER OPERATIONS INCLUDING MOWING, MULCHING/HERBICIDE OPERATIONS, TEMPORARY ROAD/INTERSECTION CLOSURES, ETC.

ROADWAY TYPE DEFINITIONS

1. FREEWAY:
 - A. INTERSTATE: INTERREGIONAL HIGH-SPEED, HIGH-VOLUME, DIVIDED FACILITIES WITH COMPLETE CONTROL OF ACCESS.
 - B. PARKWAY: DIVIDED HIGHWAYS FOR NON-COMMERCIAL TRAFFIC WITH FULL CONTROL OF ACCESS, GRADE PARKWAY SEPARATIONS, INTERCHANGES, AND OCCASIONAL AT-GRADE INTERSECTIONS. PARKWAYS ARE DESIGNATED BY LAW.

ROADWAY TYPE DEFINITIONS (CONTINUED)

2. EXPRESSWAY: DIVIDED HIGHWAYS FOR THROUGH TRAFFIC WITH FULL OR PARTIAL CONTROL OF ACCESS AND GENERALLY WITH GRADE SEPARATIONS AT MAJOR CROSSROADS. ALL FREEWAY STANDARD SHEETS ARE APPLICABLE TO EXPRESSWAY.
3. NON-FREEWAY:
 - A. MULTILANE DIVIDED HIGHWAY
 - B. MULTILANE UNDIVIDED HIGHWAY
 - C. TWO-LANE TWO-WAY ROADWAY

ALL NON-FREEWAYS CAN BE EITHER URBAN OR RURAL:

URBAN: (MEETS MORE THAN 1 OF THE FOLLOWING CRITERIA)

- HIGH DENSITY DEVELOPMENT
- ON-STREET PARKING
- VARIED BUILDING SETBACKS
- MULTI-STORY AND LOW-TO MEDIUM-RISE STRUCTURES FOR RESIDENTIAL
- COMMERCIAL, AND EDUCATIONAL USES, STRUCTURES THAT ACCOMMODATE MIXED USES: COMMERCIAL, RESIDENTIAL, AND PARKING
- LIGHT INDUSTRIAL, AND SOMETIMES HEAVY INDUSTRIAL, LAND USE
- PROMINENT DESTINATIONS WITH SPECIALIZED STRUCTURES, E.G., LARGE THEATERS, SPORTS FACILITIES OR CONFERENCE CENTERS
- HIGH LEVELS OF PEDESTRIAN AND BICYCLIST ACTIVITY, WITH NEARLY CONTINUOUS SIDEWALKS AND MARKED CROSSWALKS
- HIGHER DENSITY OF TRANSIT STOPS AND ROUTES
- DRIVEWAY DENSITIES GREATER THAN 25 DRIVEWAYS/MILE ON EACH SIDE OF THE ROAD
- MINOR COMMERCIAL DRIVEWAY DENSITIES OF 10 DRIVEWAYS/MILE OR GREATER
- MAJOR COMMERCIAL DRIVEWAYS
- HIGH DENSITY OF CROSS STREETS

RURAL: DOES NOT MEET MORE THAN ONE OF THE ABOVE CRITERIA.

NOTES FOR NIGHTTIME OPERATIONS:

- N1. WORK OCCURRING AFTER SUNSET AND BEFORE SUNRISE WILL BE CONSIDERED NIGHTTIME OPERATIONS.
- N2. ALL SIGNS, STOP/SLOW PADDLES AND RED FLAGS USED TO WARN/ALERT/CONTROL TRAFFIC SHALL BE RETROREFLECTIVE.
- N3. ALL WORKERS INVOLVED SHALL WEAR PROTECTIVE HELMETS AND NIGHTTIME APPAREL IN ACCORDANCE WITH §107-05A. HIGH VISIBILITY APPAREL AT ALL TIMES.
- N4. VEHICLES OPERATING ON THE PAVEMENT OF A CLOSED ROADWAY OR TRAVEL LANE SHALL DISPLAY ROTATING AMBER BEACONS OR FLASHING LED BEACONS AT ALL TIMES.
- N5. LEVEL I ILLUMINATION SHALL BE PROVIDED NEAR THE BEGINNING OF LANE CLOSURE TAPERS AND AT ROAD CLOSURES, INCLUDING THE SETUP AND REMOVAL OF THE CLOSURE TAPERS.
- N6. LEVEL II ILLUMINATION SHALL BE PROVIDED FOR FLAGGING STATIONS, ASPHALT PAVING, MILLING, AND CONCRETE PLACEMENT AND/OR REMOVAL OPERATIONS, INCLUDING BRIDGE DECKS, 50 FEET AHEAD OF AND 100 FEET BEHIND A PAVING OR MILLING MACHINE.
- N7. LEVEL III ILLUMINATION SHALL BE PROVIDED FOR PAVEMENT OR STRUCTURAL CRACK FILLING, JOINT REPAIR, PAVEMENT PATCHING AND REPAIRS, INSTALLATION OF SIGNAL EQUIPMENT OR OTHER ELECTRICAL/MECHANICAL EQUIPMENT, AND OTHER TASKS INVOLVING FINE DETAILS OR INTRICATE PARTS AND EQUIPMENT.
- N8. ALL LIGHTING SHALL BE DESIGNED, INSTALLED, AND OPERATED TO AVOID GLARE THAT AFFECTS TRAFFIC ON THE ROADWAY OR THAT CAUSES ANNOYANCE OR DISCOMFORT FOR RESIDENCES ADJOINING THE ROADWAY.
- N9. PRIOR TO THE START OF NIGHTTIME OPERATIONS, A WRITTEN NIGHTTIME OPERATIONS AND LIGHTING PLAN IS REQUIRED FOR APPROVAL FROM THE DOT ENGINEER.
- N10. SEE STANDARD SPECIFICATIONS §619 FOR ADDITIONAL REQUIREMENTS AND CONSIDERATIONS.
- N11. FLAGGERS SHALL USE A FLASHLIGHT WITH RED GLOW CONE/RED LED BATON FOR FLAGGING IN NON-ILLUMINATED FLAGGER STATIONS DURING NIGHTTIME OPERATIONS.



U.S. CUSTOMARY STANDARD SHEET

WORK ZONE TRAFFIC CONTROL
GENERAL NOTES

APPROVED APRIL 8, 2022

Robert Limoges
ROBERT LIMOGES, P.E.
DIRECTOR, OTSM

ISSUED UNDER EI 22-008

619-010

TABLE 011-01: PROTECTIVE VEHICLE REQUIREMENTS

CLOSURE TYPE	DURATION	MOBILE (WORK THAT MOVES INTERMITTENTLY OR CONTINUOUSLY, WHERE THE WORK AT ANY SPECIFIC LOCATION COMPLETES WITHIN 15 MINUTES) INCLUDES "STOP AND GO OPERATIONS OF 5 MINUTES OR LESS				SHORT DURATION (WORK THAT OCCUPIES A LOCATION FOR UP TO 1 HOUR)				SHORT TERM (DAYTIME WORK THAT OCCUPIES A LOCATION FOR MORE THAN 1 HOUR WITHIN A SINGLE DAYLIGHT PERIOD)				INTERMEDIATE TERM (WORK THAT OCCUPIES A LOCATION MORE THAN ONE DAYLIGHT PERIOD UP TO 3 CONSECUTIVE DAYS OR NIGHT TIME WORK LASTING MORE THAN 1 HOUR)				LONG TERM (WORK THAT OCCUPIES A LOCATION FOR MORE THAN 3 CONSECUTIVE DAYS)			
		ROAD TYPE & SPEED		NON-FREEWAY		NON-FREEWAY		NON-FREEWAY		NON-FREEWAY		NON-FREEWAY		NON-FREEWAY		NON-FREEWAY					
		FREEWAY	≥ 45 MPH	35 - 40 MPH	≤ 30 MPH	FREEWAY	≥ 45 MPH	35 - 40 MPH	≤ 30 MPH	FREEWAY	≥ 45 MPH	35 - 40 MPH	≤ 30 MPH	FREEWAY	≥ 45 MPH	35 - 40 MPH	≤ 30 MPH	FREEWAY	≥ 45 MPH	35 - 40 MPH	≤ 30 MPH
LANE CLOSURE OR ENCROACHMENT	WORKERS ON FOOT OR VEHICLE EXPOSED TO TRAFFIC	P, TMIA	P, TMIA	P, TMIA	P	P, TMIA	P, TMIA	P, TMIA	P	P, TMIA	P, TMIA	P, TMIA	P	P, TMIA	P, TMIA	P, TMIA	SEE NOTE 2	P, TMIA	P, TMIA	P, TMIA	SEE NOTE 2
	OTHER HAZARDS NO WORKERS EXPOSED	NA	NA	NA	NA	P, TMIA	P, TMIA	P	P	P, TMIA	P, TMIA	P	SEE NOTE 2	P, TMIA	P, TMIA	SEE NOTE 2	SEE NOTE 2	P, TMIA	P, TMIA	SEE NOTE 2	SEE NOTE 2
SHOULDER CLOSURE OR ENCROACHMENT	WORKERS ON FOOT OR VEHICLE EXPOSED TO TRAFFIC	P, TMIA	P, TMIA	P	P	P, TMIA	P, TMIA	P	P	P, TMIA	P, TMIA	P	P	P, TMIA	P, TMIA	SEE NOTE 2	SEE NOTE 2	P, TMIA	P, TMIA	SEE NOTE 2	SEE NOTE 2
	OTHER HAZARDS NO WORKERS EXPOSED	NA	NA	NA	NA	P, TMIA	P, TMIA	P	P	P, TMIA	P, TMIA	P	SEE NOTE 2	P, TMIA	SEE NOTE 2	SEE NOTE 2	SEE NOTE 2	P, TMIA	SEE NOTE 2	SEE NOTE 2	SEE NOTE 2

LEGEND
 P: PROTECTIVE VEHICLE REQUIRED FOR EACH CLOSED LANE & EACH CLOSED PAVED SHOULDER 8' OR WIDER, IF THE WORK SPACE MOVES WITHIN THE STATIONARY CLOSURE, THE PROTECTIVE VEHICLE SHALL BE REPOSITIONED ACCORDINGLY
 TMIA: TRUCK/TRAILER MOUNTED IMPACT ATTENUATOR (TMIA) REQUIRED
 NA: NOT APPLICABLE

NOTES
 1. THE EXPOSURE CONDITIONS ASSUMES THERE IS NO POSITIVE PROTECTION PRESENT
 2. EITHER A PROTECTIVE VEHICLE OR THE STANDARD BUFFER SPACE SHALL BE PROVIDED

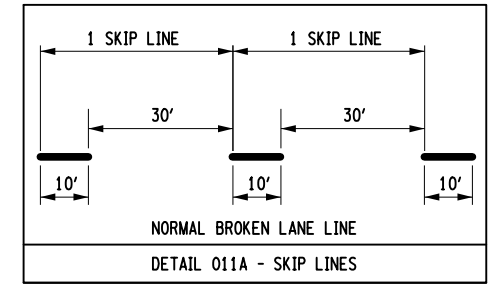


TABLE 011-02: TAPER LENGTHS & NUMBER OF CONES CHART

PRECONSTRUCTION POSTED SPEED LIMIT (MPH)	TAPER LENGTH: L (FT.) / * OF SKIP LINES / * OF CHANNELIZING DEVICES										SHOULDER TAPER LENGTH: L/3 (FT.) / * OF SKIP LINES / * OF CHANNELIZING DEVICES		
	LATERAL SHIFT OF TRAFFIC FLOW PATH (FT.)										FOR SHOULDER WIDTH		
	4	5	6	7	8	9	10	11	12	≤ 4 FT.	5 - 7 FT.	≥ 8 FT.	
25	40/1/2	80/2/3	80/2/3	80/2/3	80/2/3	120/3/4	120/3/4	120/3/4	120/3/4	40/1/2	40/1/2	40/1/2	
30	80/2/3	80/2/3	80/2/3	120/3/4	120/3/4	160/4/5	160/4/5	160/4/5	200/5/6	40/1/2	40/1/2	40/1/2	
35	80/2/3	120/3/4	120/3/4	160/4/5	160/4/5	200/5/6	200/5/6	240/6/7	240/6/7	40/1/2	40/1/2	80/2/3	
40	120/3/4	160/4/5	160/4/5	200/5/6	240/6/7	240/6/7	280/7/8	320/8/9	320/8/9	40/1/2	80/2/3	80/2/3	
45	200/5/6	240/6/7	280/7/8	320/8/9	360/9/10	400/10/11	440/11/12	520/13/14	560/14/15	80/2/3	80/2/3	120/3/4	
50	200/5/6	240/6/7	320/8/9	360/9/10	400/10/11	440/11/12	520/13/14	560/14/15	600/15/16	80/2/3	120/3/4	160/4/5	
55	240/6/7	280/7/8	320/8/9	400/10/11	440/11/12	520/13/14	560/14/15	600/15/16	680/17/18	80/2/3	120/3/4	160/4/5	
60	240/6/7	320/8/9	360/9/10	440/11/12	480/12/13	560/14/15	600/15/16	680/17/18	720/18/19	80/2/3	120/3/4	160/4/5	
65	280/7/8	320/8/9	400/10/11	480/12/13	520/13/14	600/15/16	640/16/17	720/18/19	800/19/20	80/2/3	160/4/5	200/5/6	

* THIS TABLE WAS CREATED WITH REFERENCE TO MUTCD TABLE 6H-4.
 ** THE NUMBER OF CHANNELIZING DEVICES SHOWN IS CALCULATED BASED ON A 40FT DEVICE SPACING. THE NUMBER OF CHANNELIZING DEVICES CAN BE ADJUSTED AS NECESSARY.

TABLE 011-03: LONGITUDINAL BUFFER SPACE

PRECONSTRUCTION POSTED SPEED LIMIT (MPH)	DISTANCE (FT.) / * OF SKIP LINES
25	155 / 4
30	200 / 5
35	250 / 6
40	305 / 8
45	360 / 9
50	425 / 11
55	495 / 13
65	645 / 16

* THIS TABLE IS THE SAME AS MUTCD TABLE 6C-2.

TABLE 011-04: ROLL AHEAD DISTANCE FOR PROTECTIVE VEHICLES

ROLL AHEAD DISTANCE (FT.) / * OF SKIP LINES FOR VEHICLES					
PRECONSTRUCTION POSTED SPEED LIMIT (MPH)	MOVING OPERATION (BASED ON PROTECTIVE VEHICLE SPEED OF 15 MPH)		STATIONARY OPERATION		
	MIN	MAX	MIN	MAX	
≥ 55	200/5	280/7	120/3	200/5	
45 - 50	160/4	240/6	80/2	160/4	
≤ 40	120/3	200/5	40/1	120/3	

* THIS TABLE WAS CREATED WITH REFERENCE TO MUTCD TABLES NY-2 AND NY2-B.

TABLE 011-05: FLARE RATES FOR POSITIVE BARRIER

TYPE OF POSITIVE BARRIER	POSTED SPEED LIMIT				
	30 MPH	40 MPH	50 MPH	55 MPH	65 MPH
TEMPORARY POSITIVE BARRIER	8:1	11:1	14:1	16:1	20:1
BOX BEAM OR HEAVY POST CORRUGATED BEAM	7:1	9:1	11:1	12:1	15:1

TABLE 011-06: ADVANCE WARNING SIGN SPACING

ROAD TYPE	DISTANCE BETWEEN SIGNS			SIGN LEGEND	
	A (FT.)	B (FT.)	C (FT.)	XX	YY
URBAN (≤ 30 MPH*)	100	100	100	AHEAD	AHEAD
URBAN (35-40 MPH*)	200	200	200	AHEAD	AHEAD
URBAN (≥ 45 MPH*)	350	350	350	1000 FT.	AHEAD
RURAL	500	500	500	1500 FT.	1000 FT.
FREEWAY	1000	1500	2640	1 MILE	1/2 MILE

* PRECONSTRUCTION POSTED SPEED LIMIT.
 ** THIS TABLE IS THE SAME AS MUTCD TABLE NY6H-3.

TABLE 011-07: TAPER LENGTH FOR TEMPORARY TRAFFIC CONTROL ZONES

TYPE OF TAPER	TAPER LENGTH (L)
MERGING TAPER	L
SHIFTING TAPER	L/2
SHOULDER TAPER	L/3
ONE-LANE, TWO-WAY TRAFFIC TAPER	50 FT. MIN -100 FT. MAX
DOWNSTREAM TAPER	50 FT. MIN -100 FT. MAX

* THIS TABLE IS THE SAME AS MUTCD TABLE 6C-3.

WORK ZONE TRAFFIC CONTROL LEGEND

SYMBOL	DESCRIPTION
	ARROW PANEL
	ARROW PANEL, CAUTION MODE
	ARROW PANEL TRAILER OR SUPPORT
	CHANGEABLE MESSAGE SIGN (PVMS)
	CHANNELIZING DEVICE
	CONE
	CRASH CUSHION/TEMPORARY IMPACT ATTENUATOR
	DIRECTION OF TEMPORARY TRAFFIC DETOUR
	DIRECTION OF TRAFFIC
	AUTOMATED FLAGGER ASSISTANCE DEVICE WITH OPERATOR
	FLAGGER
	FLAG TREE
	LUMINAIRE
	MOWER
	PARKWAY GRASS SHOULDER
	PAYEMENT MARKINGS THAT SHALL BE REMOVED FOR A LONG TERM PROJECT
	PORTABLE VARIABLE MESSAGE SIGN
	ADVANCE WARNING SIGN WITH ORANGE FLAGS
	TRAILER FOR ARROW PANEL OR PORTABLE VARIABLE MESSAGE SIGN (PVMS)

WORK ZONE TRAFFIC CONTROL LEGEND

SYMBOL	DESCRIPTION
	SIGN, TEMPORARY
	SPOTTER
	TEMPORARY POSITIVE BARRIER
	TEMPORARY POSITIVE BARRIER WITH WARNING LIGHTS
	TEMPORARY TRAFFIC SIGNAL HEAD
	TYPE III BARRICADE
	WARNING LIGHTS
	WORK AREA
	WORK VEHICLE
	WORK VEHICLE (MULCHING/HERBICIDE OPERATION)
	WORK VEHICLE (PAVEMENT MARKING)
	WORK VEHICLE (SIGNAL WORK)
	24,000LB PROTECTIVE VEHICLE WITH TRUCK/TRAILER MOUNTED ATTENUATOR (TMIA)
	24,000LB PROTECTIVE VEHICLE WITHOUT TRUCK/TRAILER MOUNTED ATTENUATOR

NEW YORK STATE OF OPPORTUNITY | **Department of Transportation**

U.S. CUSTOMARY STANDARD SHEET

WORK ZONE TRAFFIC CONTROL GENERAL TABLES AND LEGEND

APPROVED DECEMBER 2, 2021 | ISSUED UNDER EI 21-028

Robert Limoges
 ROBERT LIMOGES, P.E.
 DIRECTOR, OTSM

619-011

WORK ZONE TRAFFIC CONTROL SIGN TABLE

SIGN	SIGN DESIGNATION	COLOR CODE	NON-FREEWAY	EXPRESSWAY	FREEWAY
	E5-1	C	-----	72"x60"	72"x60"
	G20-1	A	36"x18"	48"x24"	48"x24"
	G20-2	A	36"x18"	48"x24"	48"x24"
	G20-4	A	36"x18"	-----	-----
	G20-5aP	A	24"x18"	36"x24"	36"x24"
	M1-1	G	1 OR 2 DIGITS 24"x24"	36"x36"	36"x36"
	M1-1t	G	3 DIGITS 30"x24"	45"x36"	45"x36"
	M1-4	B	1 OR 2 DIGITS 24"x24"	36"x36"	36"x36"
	M1-4t	B	3 DIGITS 30"x24"	45"x36"	45"x36"
	M3-1	SEE NOTE 3	24"x12"	36"x18"	36"x18"
	M3-2				
	M3-3				
	M3-4				
	M4-8	A	24"x12"	36"x18"	36"x18"
	M4-8a	A	24"x18"	24"x18"	24"x18"
	M4-9 M4-9L M4-9R	A	30"x24"	48"x36"	48"x36"
	M4-9a	A	30"x24"	30"x24"	-----
	M4-9b	A	30"x24"	30"x24"	-----
	M4-9c	A	30"x24"	30"x24"	-----
	M4-10L	A	48"x18"	48"x18"	48"x18"
	M4-10R				
	M5-1	SEE NOTE 3	21"x15"	30"x21"	30"x21"
	M5-2	SEE NOTE 3	21"x15"	30"x21"	30"x21"
	M6-1	SEE NOTE 3	21"x15"	30"x21"	30"x21"
	M6-2				
	M6-3				
	M6-4				
	NYM3-1	B	24"x24"	36"x36"	36"x36"
	NYM3-2	B	30"x24"	45"x36"	45"x36"
	NYM3-3	B	30"x24"	45"x36"	45"x36"

WORK ZONE TRAFFIC CONTROL SIGN TABLE

SIGN	SIGN DESIGNATION	COLOR CODE	NON-FREEWAY	EXPRESSWAY	FREEWAY
	NYR9-11	B	24"x42"	48"x84"	48"x84"
	NYR9-12	B	24"x36"	36"x54"	48"x72"
	NYW4-17	A	36"x36"	48"x48"	48"x48"
	NYW8-30	A	48"x24"	48"x24"	48"x24"
	NYW8-31	A	48"x24"	48"x24"	48"x24"
	NYW8-32	A	48"x24"	48"x24"	48"x24"
	NYW8-33	A	48"x24"	48"x24"	48"x24"
	R1-1	D	36"x36"	36"x36"	48"x48"
	R1-2	E	36"x36"x36"	48"x48"x48"	60"x60"x60"
	R2-1	B	24"x30" OR 30"x36" (SEE NOTE 5)	36"x48"	36"x48"
	R2-11	B	24"x30"	36"x48"	36"x48"
	R2-12	B	24"x36"	36"x54"	36"x54"
	R4-1	B	24"x30"	36"x48"	36"x48"
	R4-7 R4-7c NARROW	B	24"x30"	18"x30"	-----
	R4-8 R4-8c NARROW	B	24"x30"	18"x30"	-----
	R4-9	B	24"x30"	36"x48"	36"x48"
	R5-1	E	36"x36"	36"x36"	48"x48"
	R8-3	E	24"x24"	36"x36"	48"x48"
	R9-8	B	36"x18"	36"x18"	-----
	R9-9	B	24"x12"	24"x12"	-----
	R9-10	B	24"x12"	24"x12"	-----
	R9-10L R9-10R	B	24"x12"	24"x12"	-----
	R9-11L R9-11R	B	24"x18"	24"x18"	-----
	R9-11dL R9-11dR	B	24"x12"	24"x12"	-----
	R10-6	B	24"x36"	24"x36"	-----

WORK ZONE TRAFFIC CONTROL SIGN TABLE

SIGN	SIGN DESIGNATION	COLOR CODE	NON-FREEWAY	EXPRESSWAY	FREEWAY
	R11-2	B	48"x30"	48"x30"	48"x30"
	R11-2 (MOD.)				
	R11-3a	B	60"x30"	60"x30"	-----
	W1-4L W1-4R	A	36"x36"	48"x48"	48"x48"
	W1-4bL W1-4bR	A	36"x36"	48"x48"	48"x48"
	W1-4cL W1-4cR	A	36"x36"	48"x48"	48"x48"
	W1-6L	A	48"x24"	60"x30"	60"x30"
	W1-6R	A			
	W1-8L	A (NO BORDER)	18"x24"	30"x36"	30"x36"
	W1-8R	A (NO BORDER)			
	W3-1	A ⁴	36"x36"	48"x48"	48"x48"
	W3-2	A ⁴	36"x36"	48"x48"	48"x48"
	W3-3	A ⁴	36"x36"	48"x48"	48"x48"
	W3-4	A	36"x36"	48"x48"	48"x48"
	W3-5	A ⁴	36"x36"	48"x48"	48"x48"
	W4-1L W4-1R	A	36"x36"	48"x48"	48"x48"
	W4-2L W4-2R	A	36"x36"	48"x48"	48"x48"

WORK ZONE TRAFFIC CONTROL SIGN TABLE

SIGN	SIGN DESIGNATION	COLOR CODE	NON-FREEWAY	EXPRESSWAY	FREEWAY
	NYW23-1	A	36"x36"	48"x48"	48"x48"
	G20-5aP	6F.12	24"x18"	36"x24"	36"x24"
	E5-2	6F.28	48"x36"	48"x36"	48"x36"
	E5-2a	6F.28	48"x36"	48"x36"	48"x36"

COLOR CODE LEGEND

CODE	DESCRIPTION
A	BLACK LEGEND AND BORDER ON AN ORANGE BACKGROUND
B	BLACK LEGEND AND BORDER ON A WHITE BACKGROUND
C	WHITE LEGEND AND BORDER ON A GREEN BACKGROUND
D	WHITE LEGEND AND BORDER ON A RED BACKGROUND
E	RED LEGEND AND BORDER ON A WHITE BACKGROUND
F	BLACK LEGEND AND BORDER ON A FLOURESCENT YELLOW GREEN BACKGROUND
G	WHITE LEGEND AND BORDER ON A BLUE AND RED BACKGROUND

NOTES:

- DIMENSIONS ARE SHOWN AS WIDTH X HEIGHT.
- FOR SIGNAGE NOT SHOWN ON THESE TABLES REFER TO THE M.U.T.C.D.
- COLORS FOR DIRECTION PLAQUES, ADVANCE TURN ARROWS, AND DIRECTIONAL ARROWS SHALL MATCH THE ROUTE OR INTERSTATE SIGN THAT THEY SUPPLEMENT AS PER THE M.U.T.C.D.
- MULTICOLORED SYMBOL IMPOSED ON SIGN WITH BLACK LEGEND AND BORDER ON AN ORANGE BACKGROUND.
- FOR R2-1 SIGN LARGER DIMENSIONS SHALL BE USED WHEN SIGN FACES MULTIPLE LANES ON A CONVENTIONAL ROAD.



U.S. CUSTOMARY STANDARD SHEET

WORK ZONE TRAFFIC CONTROL SIGN TABLE (SHEET 1 OF 2)

APPROVED DECEMBER 2, 2021 ISSUED UNDER EI 21-028

Robert Limoges
ROBERT LIMOGES, P.E.
DIRECTOR, OTSM

619-012

WORK ZONE TRAFFIC CONTROL SIGN TABLE					
SIGN	SIGN DESIGNATION	COLOR CODE	NON-FREEWAY	EXPRESSWAY	FREEWAY
	W5-1	A	36"X36"	48"X48"	48"X48"
	W5-4	A	36"X36"	48"X48"	48"X48"
	W6-3	A	36"X36"	48"X48"	48"X48"
	W7-3dP	A	24"X18"	36"X30"	36"X30"
	W8-1	A	36"X36"	48"X48"	48"X48"
	W8-3	A	36"X36"	48"X48"	48"X48"
	W8-7	A	36"X36"	48"X48"	48"X48"
	W8-8	A	36"X36"	48"X48"	48"X48"
	W8-9	A	36"X36"	48"X48"	48"X48"
	W8-12	A	36"X36"	-----	-----
	W8-14	A	36"X36"	48"X48"	48"X48"
	W8-15	A	36"X36"	48"X48"	48"X48"
	W8-17	A	36"X36"	48"X48"	48"X48"
	W8-17p	A	24"X18"	30"X24"	30"X24"
	W8-23	A	36"X36"	48"X48"	48"X48"
	W8-24	A	36"X36"	48"X48"	48"X48"
	W9-3	A	36"X36"	48"X48"	48"X48"
	W11-1L* W11-1R	A OR F	36"X36"	36"X36"	-----
	W11-2L* W11-2R	F	36"X36"	36"X36"	-----
	W11-15L* W11-15R	F	36"X36"	36"X36"	-----
	NYW5-32P*	A	24"X18"	24"X18"	-----

* A FLOURESCENT YELLOW-GREEN BACKGROUND COLOR SHALL BE USED FOR THIS SIGN PLAQUE.

WORK ZONE TRAFFIC CONTROL SIGN TABLE					
SIGN	SIGN DESIGNATION	COLOR CODE	NON-FREEWAY	EXPRESSWAY	FREEWAY
	W13-1P	A	24"X24"	30"X30"	30"X30"
	W13-4	A	36"X36"	36"X36"	36"X36"
	W13-4P	A	48"X48"X36"	-----	-----
	W16-2P	A	24"X18"	30"X24"	-----
	W16-4P	SEE NOTE 3 A OR F	30"X24"	-----	-----
	W16-5PL W16-5PR	A	24"X18"	-----	-----
	W16-7PL W16-7PR	SEE NOTE 3 A OR F	24"X12"	30"X18"	-----
	W16-9P	SEE NOTE 3 A OR F	24"X12"	30"X18"	-----
	W20-1	A	36"X36"	48"X48"	48"X48"
	W20-2	A	36"X36"	48"X48"	48"X48"
	W20-3	A	36"X36"	48"X48"	48"X48"
	W20-4	A	36"X36"	48"X48"	48"X48"
	W20-5	A	36"X36"	48"X48"	48"X48"
	W20-5a	A	36"X36"	48"X48"	48"X48"
	W20-7	A	36"X36"	48"X48"	48"X48"

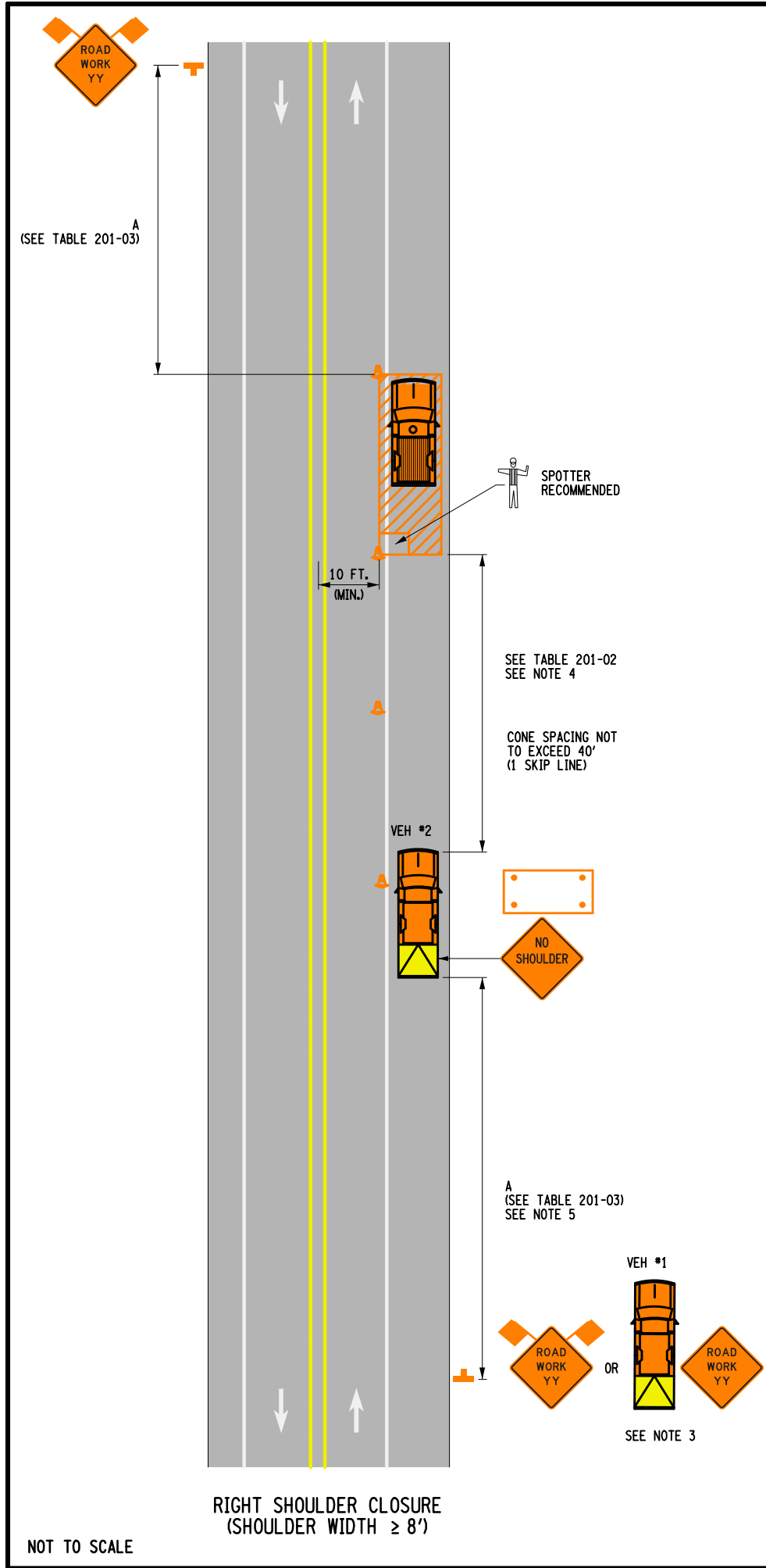
WORK ZONE TRAFFIC CONTROL SIGN TABLE					
SIGN	SIGN DESIGNATION	COLOR CODE	NON-FREEWAY	EXPRESSWAY	FREEWAY
	W21-1	A	36"X36"	48"X48"	48"X48"
	W21-4	A	36"X18"	48"X24"	48"X24"
	W21-5	A	36"X36"	48"X48"	48"X48"
	W21-5dL W21-5dR	A	36"X36"	48"X48"	48"X48"
	W21-5dL W21-5dR	A	36"X36"	48"X48"	48"X48"
	W21-8	A	36"X36"	48"X48"	48"X48"
	W22-1	A	36"X36"	48"X48"	48"X48"
	W22-2	A	42"X36"	42"X36"	42"X36"
	W22-3	A	42"X36"	42"X36"	42"X36"
	W23-1	A	48"X24"	48"X24"	48"X24"
	W23-2	A	36"X36"	48"X48"	48"X48"
	W24-1L W24-1R	A	36"X36"	48"X48"	48"X48"
	W24-1dL W24-1dR	A	36"X36"	48"X48"	48"X48"
	W24-1bL W24-1bR	A	36"X36"	48"X48"	48"X48"

COLOR CODE LEGEND	
CODE	DESCRIPTION
A	BLACK LEGEND AND BORDER ON AN ORANGE BACKGROUND
B	BLACK LEGEND AND BORDER ON A WHITE BACKGROUND
C	WHITE LEGEND AND BORDER ON A GREEN BACKGROUND
D	WHITE LEGEND AND BORDER ON A RED BACKGROUND
E	RED LEGEND AND BORDER ON A WHITE BACKGROUND
F	BLACK LEGEND AND BORDER ON A FLOURESCENT YELLOW GREEN BACKGROUND
G	WHITE LEGEND AND BORDER ON A BLUE AND RED BACKGROUND

NOTES:

- DIMENSIONS ARE SHOWN AS WIDTH X HEIGHT.
- FOR SIGNAGE NOT SHOWN ON THESE TABLES REFER TO THE M.U.T.C.D.
- WHEN USED IN CONJUNCTION WITH A BICYCLE SIGN (W11-1) OR PEDESTRIAN CROSSING (W11-2) COLOR CODE SHALL MATCH.

Department of Transportation	
U.S. CUSTOMARY STANDARD SHEET	
WORK ZONE TRAFFIC CONTROL SIGN TABLE (SHEET 2 OF 2)	
APPROVED DECEMBER 2, 2021	ISSUED UNDER EI 21-028
Robert Limoges ROBERT LIMOGES, P.E. DIRECTOR, OTSM	619-012



NOT TO SCALE

RIGHT SHOULDER CLOSURE
 (SHOULDER WIDTH ≥ 8')

CLOSURE TYPE	ROAD TYPE & SPEED	NON-FREEWAY		
		≥ 45 MPH	35 - 40 MPH	≤ 30 MPH
	EXPOSURE CONDITIONS ¹			
LANE CLOSURE OR ENCROACHMENT	WORKERS ON FOOT OR VEHICLE EXPOSED TO TRAFFIC	P, TMIA	P, TMIA	P
	OTHER HAZARDS NO WORKERS EXPOSED	P, TMIA	P	P
SHOULDER CLOSURE OR ENCROACHMENT	WORKERS ON FOOT OR VEHICLE EXPOSED TO TRAFFIC	P, TMIA	P	P
	OTHER HAZARDS NO WORKERS EXPOSED	P, TMIA	P	P

LEGEND

P: PROTECTIVE VEHICLE REQUIRED FOR EACH CLOSED LANE & EACH CLOSED PAVED SHOULDER 8' OR WIDER, IF THE WORK SPACE MOVES WITHIN THE STATIONARY CLOSURE, THE PROTECTIVE VEHICLE SHALL BE REPOSITIONED ACCORDINGLY

TMIA: TMIA REQUIRED

NOTES:
 1. THE EXPOSURE CONDITIONS ASSUMES THERE IS NO POSITIVE PROTECTION PRESENT

ROLL AHEAD DISTANCE (FT.)/# OF SKIP LINES FOR VEHICLES		
PRECONSTRUCTION POSTED SPEED LIMIT (MPH)	STATIONARY OPERATION	
	MIN	MAX
≥ 55	120/3	200/5
45 - 50	80/2	160/4
≤ 40	40/1	120/3

ROAD TYPE	DISTANCE BETWEEN SIGNS	SIGN LEGEND
	A (FT.)	YY
URBAN (≤ 30 MPH*)	100	AHEAD
URBAN (35-40 MPH*)	200	AHEAD
URBAN (≥ 45 MPH*)	350	AHEAD
RURAL	500	1000 FT.

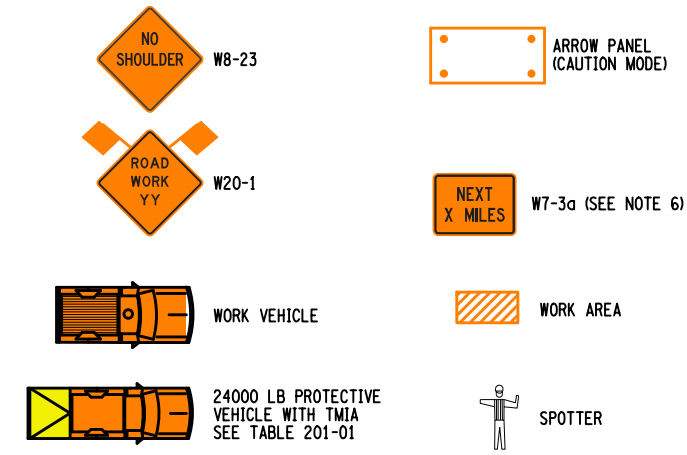
* PRECONSTRUCTION POSTED SPEED LIMIT

SIGN	NON-FREEWAY	FREEWAY
W7-3a	24x18	36x30
W8-23	36x36	48x48
W20-1	36x36	48x48
WARNING FLAG	18x18	18x18

*FREEWAY SIZES MAY BE USED ON NON-FREEWAY, IF SPACE CONSTRAINTS DO NOT EXIST.

NOTES:

- SHORT DURATION IS WORK THAT OCCUPIES A LOCATION FOR UP TO 1 HOUR.
- THE OPERATOR(S) SHALL REMAIN IN THE PROTECTIVE VEHICLE(S) WITH THE SAFETY BELT AND HEADREST PROPERLY ADJUSTED, MAINTAIN VEHICLE SPACING, AND KEEP THE WHEELS ALIGNED WITH THE LANE STRIPING. TWO-WAY RADIOS SHOULD BE USED TO COMMUNICATE BETWEEN THE OPERATOR AND THE WORK CREW.
- IF SHOULDER AREA BECOMES TOO NARROW FOR VEH #1 TO BE COMPLETELY ON THE SHOULDER, THE VEHICLE SHALL STAY ON THE WIDER SHOULDER AREA UNTIL THE OPERATOR CAN SAFELY DRIVE AROUND THE NARROW SHOULDER TO THE NEW SET-UP POINT.
- THERE SHALL BE NO WORKERS, EQUIPMENT OR OTHER VEHICLES IN THE ROLL AHEAD DISTANCE.
- IN URBAN CONDITIONS, ADVANCE WARNING SIGN SPACINGS MAY BE ADJUSTED IN ORDER TO ACCOMMODATE SIDE STREETS AND DRIVEWAYS. IF THERE IS A CONFLICT, MOVE THE SIGN UPSTREAM.
- A SUPPLEMENTAL DISTANCE PLAQUE W7-3a SHALL BE USED WITH SIGN W20-1 WHEN THE DISTANCE BETWEEN THE ADVANCE WARNING SIGNS AND WORK MAY BECOME GREATER THAN 2 MILES AS A RESULT OF THE FOLLOWING SITUATIONS:
 - MULTIPLE WORK LOCATIONS ARE ANTICIPATED WITHIN A MAXIMUM OF 5 MILES FROM THE W20-1 SIGN
 - WORK AREA WILL BE RELOCATED DURING THE DURATION OF THE WORK WITHIN A MAXIMUM OF 5 MILES FROM THE W20-1 SIGN



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Department of Transportation

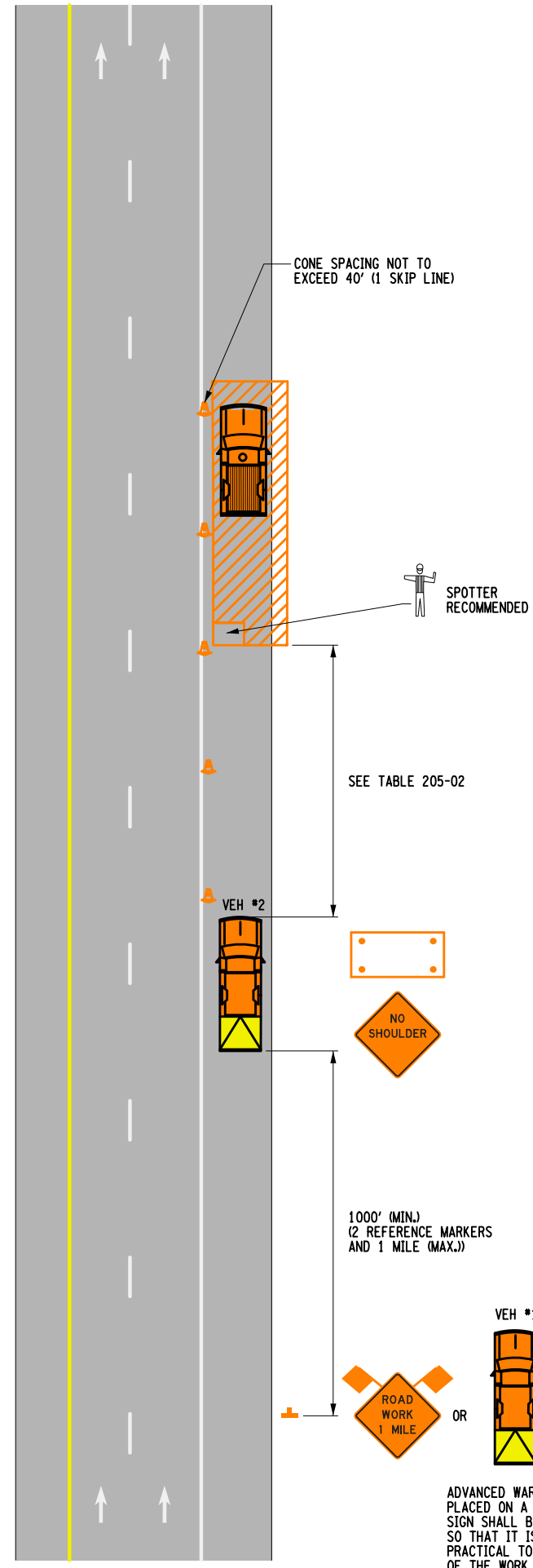
U.S. CUSTOMARY STANDARD SHEET

**WORK ZONE TRAFFIC CONTROL
 NON-FREEWAY
 RIGHT SHOULDER CLOSURE/LANE ENCROACHMENT
 SHORT DURATION OPERATION**

APPROVED DECEMBER 2, 2021 | ISSUED UNDER EI 21-028

Robert Limoges
 ROBERT LIMOGES, P.E.
 DIRECTOR, OTSM

619-201



NOT TO SCALE

RIGHT SHOULDER CLOSURE
(SHOULDER WIDTH ≥ 8')

CLOSURE TYPE	ROAD TYPE & SPEED	FREEWAY
	EXPOSURE CONDITIONS [†]	
LANE CLOSURE OR ENCROACHMENT	WORKERS ON FOOT OR VEHICLE EXPOSED TO TRAFFIC	P, TMIA
	OTHER HAZARDS NO WORKERS EXPOSED	P, TMIA
SHOULDER CLOSURE OR ENCROACHMENT	WORKERS ON FOOT OR VEHICLE EXPOSED TO TRAFFIC	P, TMIA
	OTHER HAZARDS NO WORKERS EXPOSED	P, TMIA

LEGEND

P: PROTECTIVE VEHICLE REQUIRED FOR EACH CLOSED LANE & EACH CLOSED PAVED SHOULDER 8' OR WIDER, IF THE WORK SPACE MOVES WITHIN THE STATIONARY CLOSURE, THE PROTECTIVE VEHICLE SHALL BE REPOSITIONED ACCORDINGLY

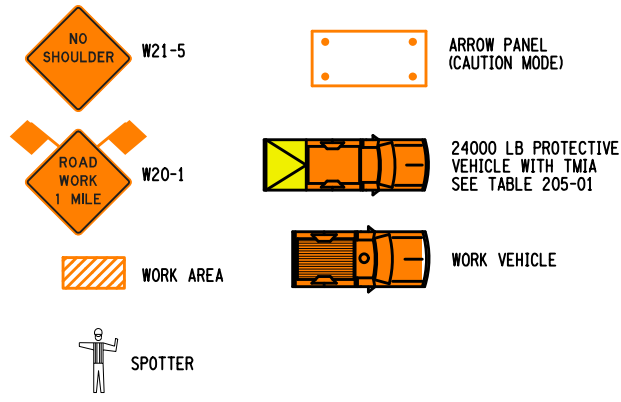
TMIA: TMIA REQUIRED

NOTES:
 1. THE EXPOSURE CONDITIONS ASSUMES THERE IS NO POSITIVE PROTECTION PRESENT

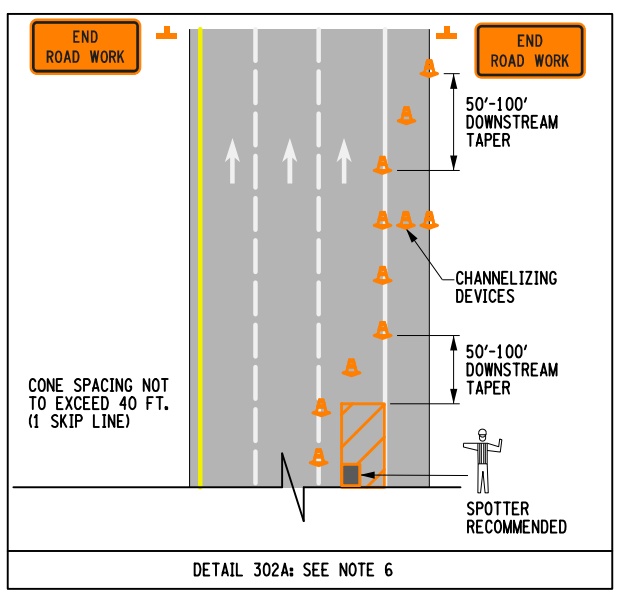
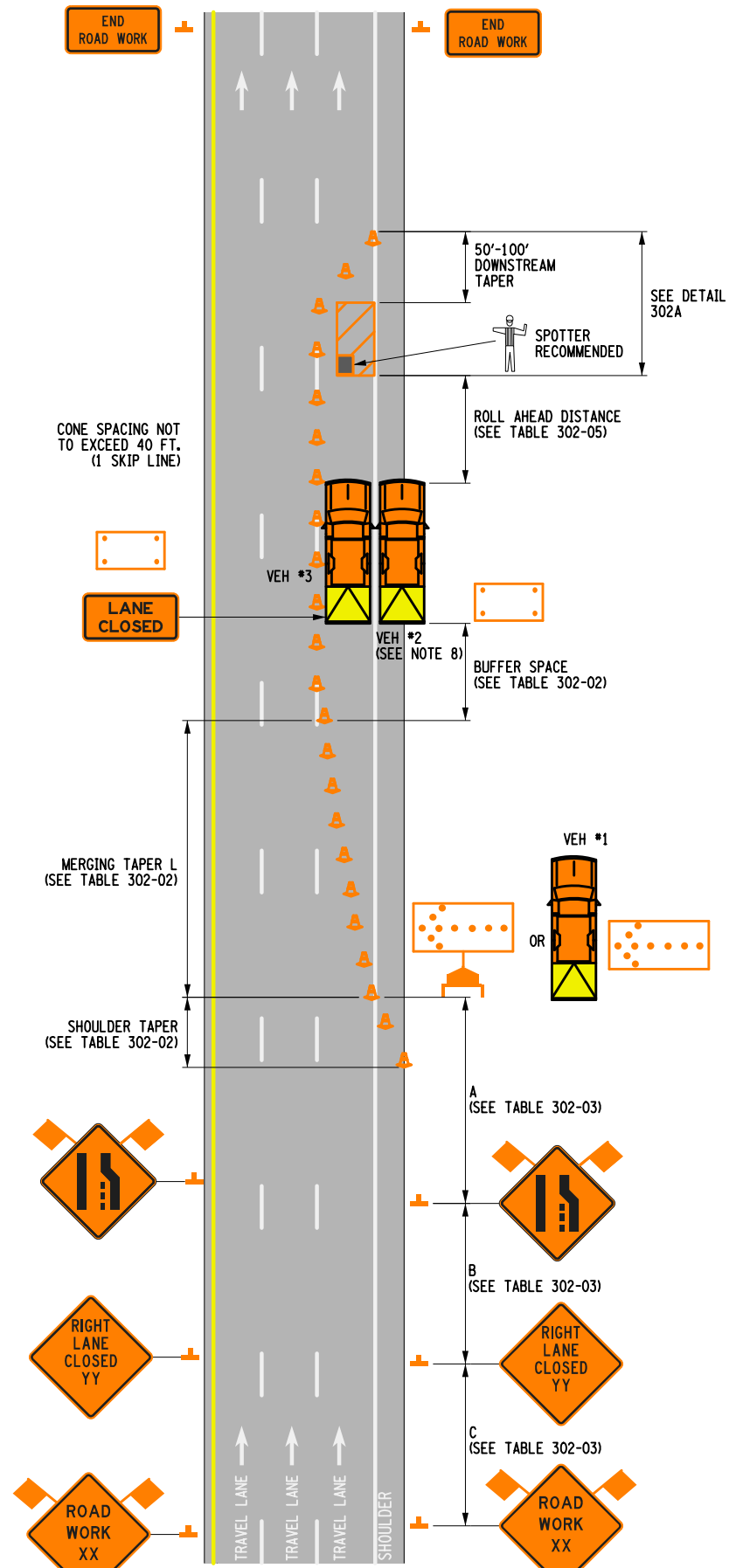
PRECONSTRUCTION POSTED SPEED LIMIT (MPH)	STATIONARY OPERATION	
	MIN	MAX
≥ 55	120/3	200/5
45 - 50	80/2	160/4

SIGN	FREEWAY
W20-1	48x48
W21-5	48x48
WARNING FLAG	18x18

- NOTES:
- SHORT DURATION IS WORK THAT OCCUPIES A LOCATION FOR UP TO 1 HOUR.
 - THE OPERATOR(S) SHALL REMAIN IN THE PROTECTIVE VEHICLE(S) WITH THE SAFETY BELT AND HEADREST PROPERLY ADJUSTED, MAINTAIN VEHICLE SPACING, AND KEEP THE WHEELS ALIGNED WITH THE LANE STRIPING. TWO-WAY RADIOS SHOULD BE USED TO COMMUNICATE BETWEEN THE OPERATOR AND THE WORK CREW.
 - THERE SHALL BE NO WORKERS, EQUIPMENT, OR OTHER VEHICLES IN THE ROLL AHEAD DISTANCE.



Department of Transportation	
U.S. CUSTOMARY STANDARD SHEET	
WORK ZONE TRAFFIC CONTROL FREEWAY RIGHT SHOULDER CLOSURE SHORT DURATION OPERATION	
APPROVED DECEMBER 2, 2021	ISSUED UNDER EI 21-028
Robert Limoges ROBERT LIMOGES, P.E. DIRECTOR, OTSM	619-205



- NOTES:
1. SHORT-TERM STATIONARY IS DAYTIME WORK THAT OCCUPIES A LOCATION FOR MORE THAN 1 HOUR WITHIN A SINGLE DAYLIGHT PERIOD.
 2. IN URBAN CONDITIONS, ADVANCE WARNING SIGN SPACINGS MAY BE ADJUSTED IN ORDER TO ACCOMMODATE SIDE STREETS AND DRIVEWAYS. IF THERE IS A CONFLICT, MOVE THE SIGN UPSTREAM.
 3. THERE SHALL BE NO WORKERS, EQUIPMENT OR OTHER VEHICLES IN THE BUFFER SPACE OR THE ROLL AHEAD DISTANCE.
 4. THE PROTECTIVE VEHICLE(S) SHALL MAINTAIN THE APPROPRIATE ROLL AHEAD DISTANCE, BE AN UNOCCUPIED TRUCK POSITIONED PARALLEL TO TRAFFIC, PARKING BRAKE SET, PLACED IN 2ND GEAR (MANUAL TRANSMISSIONS /ENGINE OFF) OR PARK / NEUTRAL (AUTOMATIC TRANSMISSIONS) AND HAVE THE FRONT WHEELS ALIGNED WITH THE LANE STRIPING.
 5. LEFT LANE CLOSURES ARE SYMMETRICAL TO RIGHT LANE CLOSURES. SUBSTITUTE LEFT LANE CLOSED SIGN (W20-5) AND THE CORRESPONDING LANE ENDS SIGN (W4-2L).
 6. CHANNELIZING DEVICES SHALL BE PLACED TRANSVERSELY A MINIMUM OF EVERY 800' AS SHOWN WHEN A PAVED SHOULDER HAVING A WIDTH OF 8' OR GREATER IS CLOSED FOR A DISTANCE GREATER THAN 800'.
 7. CHANNELIZING DEVICE SPACING (CENTER TO CENTER) SHALL NOT EXCEED 40' IN THE ACTIVE WORK SPACE.
 8. VEH #2 IS ONLY NEEDED WHEN THE SHOULDER WIDTH IS ≥ 8'.

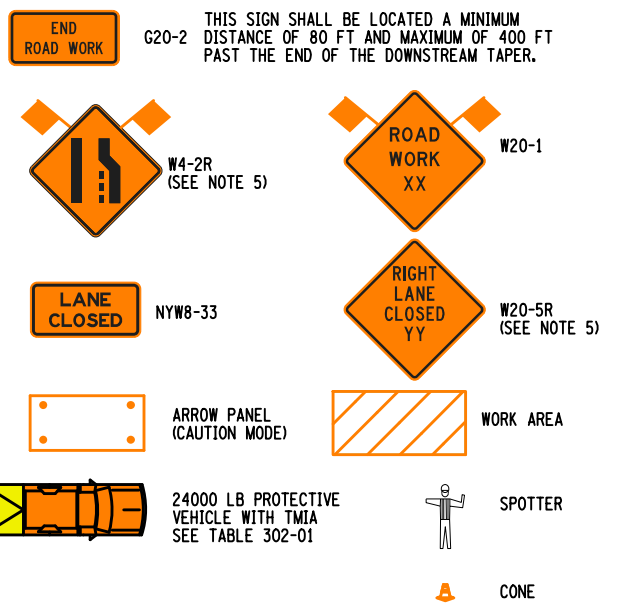
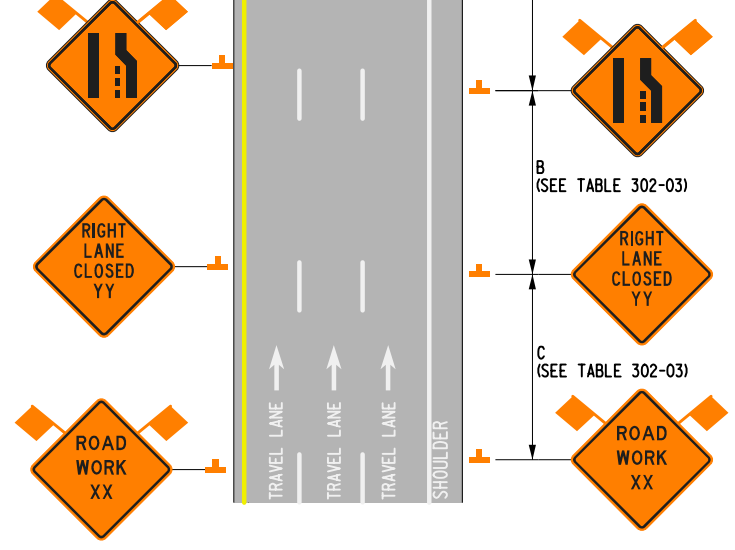


TABLE 302-01: PROTECTIVE VEHICLE REQUIREMENTS

CLOSURE TYPE	ROAD TYPE & SPEED	FREEWAY	NON-FREEWAY		
			≥ 45 MPH	35 - 40 MPH	≤ 30 MPH
LANE CLOSURE OR ENCROACHMENT	WORKERS ON FOOT OR VEHICLE EXPOSED TO TRAFFIC	P, TMIA	P, TMIA	P, TMIA	P
	OTHER HAZARDS NO WORKERS EXPOSED	P, TMIA	P, TMIA	P	SEE NOTE 2
SHOULDER CLOSURE OR ENCROACHMENT	WORKERS ON FOOT OR VEHICLE EXPOSED TO TRAFFIC	P, TMIA	P, TMIA	P	P
	OTHER HAZARDS NO WORKERS EXPOSED	P, TMIA	P, TMIA	P	SEE NOTE 2

LEGEND
 P: PROTECTIVE VEHICLE REQUIRED FOR EACH CLOSED LANE & EACH CLOSED PAVED SHOULDER 8' OR WIDER, IF THE WORK SPACE MOVES WITHIN THE STATIONARY CLOSURE, THE PROTECTIVE VEHICLE SHALL BE REPOSITIONED ACCORDINGLY
 TMIA: TMIA REQUIRED

NOTES:
 1. THE EXPOSURE CONDITIONS ASSUMES THERE IS NO POSITIVE PROTECTION PRESENT
 2. EITHER A PROTECTIVE VEHICLE OR THE STANDARD BUFFER SPACE SHALL BE PROVIDED

TABLE 302-02: LONGITUDINAL BUFFER SPACE AND TAPER LENGTHS

PRECONSTRUCTION POSTED SPEED LIMIT (MPH)	LONGITUDINAL BUFFER SPACE DISTANCE (FT.) / * OF SKIP LINES	TAPER LENGTH: L (FT.) / * OF SKIP LINES / * OF CHANNELIZING DEVICES			SHOULDER TAPER LENGTH: L/3 (FT.) / * OF SKIP LINES / * OF CHANNELIZING DEVICES		
		FOR LANE WIDTH IN FT. (LATERAL SHIFT OF TRAFFIC FLOW PATH)			FOR SHOULDER WIDTH		
		10	11	12	≤ 4 FT.	5 - 7 FT.	≥ 8 FT.
25	155/4	120/3/4	120/3/4	120/3/4	40/1/2	40/1/2	40/1/2
30	200/5	160/4/5	160/4/5	200/5/6	40/1/2	40/1/2	40/1/2
35	250/6	200/5/6	240/6/7	240/6/7	40/1/2	40/1/2	80/2/3
40	305/8	280/7/8	320/8/9	320/8/9	40/1/2	80/2/3	80/2/3
45	360/9	440/11/12	520/13/14	560/14/15	80/2/3	80/2/3	120/3/4
50	425/11	520/13/14	560/14/15	600/15/16	80/2/3	120/3/4	160/4/5
55	495/13	560/14/15	600/15/16	680/17/18	80/2/3	120/3/4	160/4/5
65	645/16	640/16/17	720/18/19	800/20/21	80/2/3	160/4/5	200/5/6

TABLE 302-03: ADVANCE WARNING SIGN SPACING

ROAD TYPE	DISTANCE BETWEEN SIGNS			SIGN LEGEND	
	A (FT.)	B (FT.)	C (FT.)	XX	YY
URBAN (≤ 30 MPH*)	100	100	100	AHEAD	AHEAD
URBAN (35-40 MPH*)	200	200	200	AHEAD	AHEAD
URBAN (≥ 45 MPH*)	350	350	350	1000 FT.	AHEAD
RURAL	500	500	500	1500 FT.	1000 FT.
FREEWAY	1000	1500	2640	1 MILE	½ MILE

* PRECONSTRUCTION POSTED SPEED LIMIT

TABLE 302-05: ROLL AHEAD DISTANCE

ROLL AHEAD DISTANCE (FT.)/* OF SKIP LINES FOR VEHICLES		
PRECONSTRUCTION POSTED SPEED LIMIT (MPH)	STATIONARY OPERATION	
	MIN	MAX
≥ 55	120/3	200/5
45 - 50	80/2	160/4
≤ 40	40/1	120/3

TABLE 302-04: REQUIRED SIGN SIZES*

SIGN	NON-FREEWAY	FREEWAY
G20-2	36x18	48x24
NYW8-33	48x24	48x24
W4-2R	36x36	48x48
W20-1	36x36	48x48
W20-5R	36x36	48x48
WARNING FLAG	18x18	18x18

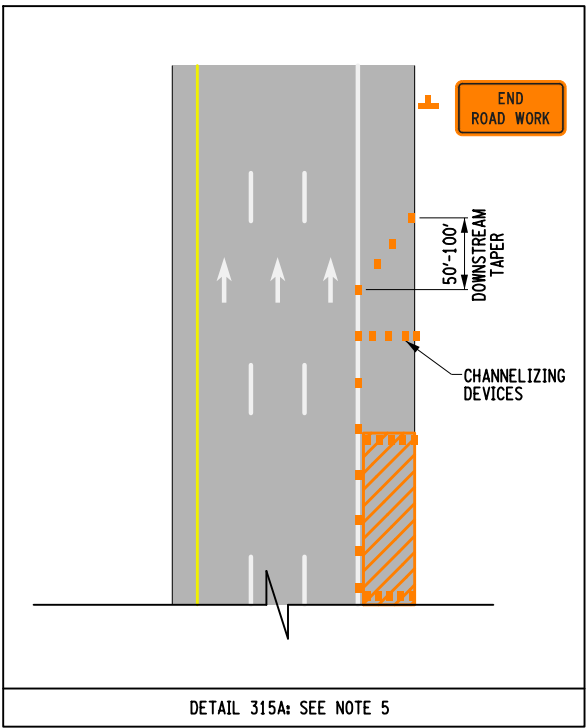
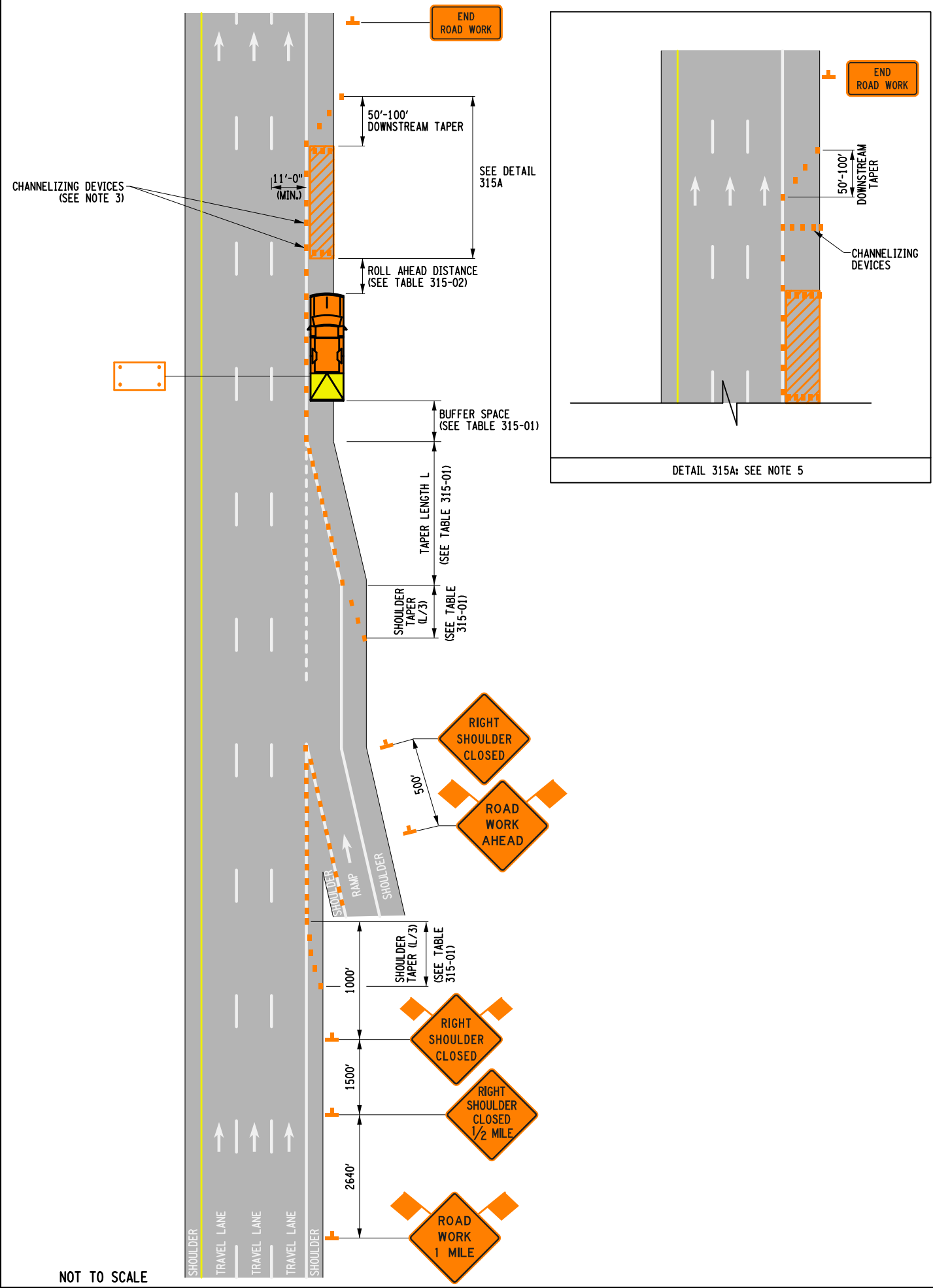
*FREEWAY SIZES MAY BE USED ON NON-FREEWAY, IF SPACE CONSTRAINTS DO NOT EXIST.

Department of Transportation

U.S. CUSTOMARY STANDARD SHEET

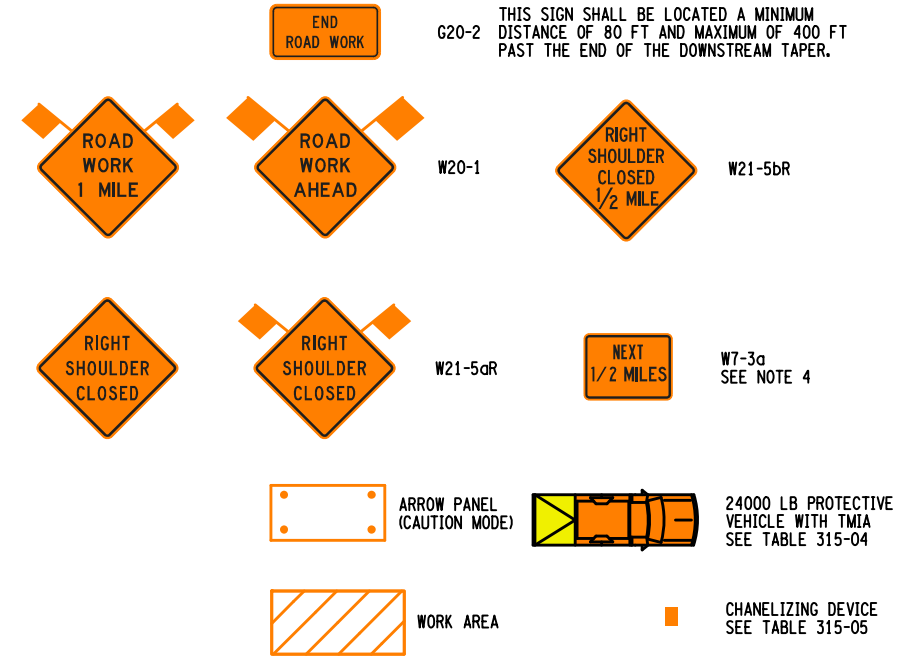
**WORK ZONE TRAFFIC CONTROL
MULTILANE DIVIDED ROADWAY AND FREEWAY
RIGHT LANE CLOSURE
SHORT TERM OPERATION**

APPROVED DECEMBER 2, 2021	ISSUED UNDER EI 21-028
Robert Limoges ROBERT LIMOGES, P.E. DIRECTOR, OTSM	619-302



NOTES:

1. SHORT-TERM STATIONARY IS DAYTIME WORK THAT OCCUPIES A LOCATION FOR MORE THAN 1 HOUR WITHIN A SINGLE DAYLIGHT PERIOD.
2. NO WORK ACTIVITY OR STORAGE OF EQUIPMENT, VEHICLES, OR MATERIAL SHOULD OCCUR WITHIN A BUFFER SPACE.
3. CHANNELIZING DEVICE SPACING (CENTER TO CENTER) SHALL NOT EXCEED 40' IN THE ACTIVE WORK SPACE.
4. XX IS THE EXPECTED OVERALL LENGTH OF THE OPERATION TO BE COMPLETED WITHIN THE WORK DAY. A SUPPLEMENTAL DISTANCE PLAQUE W7-3a SHALL BE USED WITH W20-1 SIGN WHEN THE DISTANCE BETWEEN THE ADVANCE WARNING SIGNS AND WORK MAY BECOME GREATER THAN 2 MILES AS A RESULT OF THE FOLLOWING SITUATIONS:
 *MULTIPLE WORK LOCATIONS ARE ANTICIPATED WITHIN XX MILES FROM THE W20-1 SIGN
 *WORK AREA WILL BE RELOCATED DURING THE DURATION OF THE WORK WITHIN XX MILES FROM THE W20-1 SIGN
 THE SUPPLEMENT SIGN W3-7a SHALL INDICATE THE MAXIMUM ANTICIPATED DISTANCE BETWEEN THE W20-1 SIGN AND THE FARTHEST WORK LOCATION.
5. CHANNELIZING DEVICES SHALL BE PLACED TRANSVERSELY A MINIMUM OF EVERY 800' AS SHOWN WHEN A PAVED SHOULDER HAVING A WIDTH OF 8' OR GREATER IS CLOSED FOR A DISTANCE GREATER THAN 800'.
6. THE PROTECTIVE VEHICLE(S) SHALL MAINTAIN THE APPROPRIATE ROLL AHEAD DISTANCE, BE AN UNOCCUPIED TRUCK POSITIONED PARALLEL TO TRAFFIC, PARKING BRAKE SET, PLACED IN 2ND GEAR (MANUAL TRANSMISSIONS /ENGINE OFF) OR PARK / NEUTRAL (AUTOMATIC TRANSMISSIONS) AND HAVE THE FRONT WHEELS ALIGNED WITH THE LANE STRIPING.



REFER TO SHEET 2 OF 2 FOR ALL TABLES

NEW YORK STATE OF OPPORTUNITY.		Department of Transportation	
U.S. CUSTOMARY STANDARD SHEET			
WORK ZONE TRAFFIC CONTROL FREWAY SHOULDER CLOSURE AT RAMP APPROACH SHORT TERM OPERATION (SHEET 1 OF 2)			
APPROVED DECEMBER 2, 2021		ISSUED UNDER EI 21-028	
Robert Limoges ROBERT LIMOGES, P.E. DIRECTOR, OTSM		619-315	

NOT TO SCALE

TABLE 315-01: LONGITUDINAL BUFFER SPACE AND TAPER LENGTHS

PRECONSTRUCTION POSTED SPEED LIMIT (MPH)	LONGITUDINAL BUFFER SPACE DISTANCE (FT.) / * OF SKIP LINES	TAPER LENGTH: L (FT.) / * OF SKIP LINES / * OF CHANNELIZING DEVICES			SHOULDER TAPER LENGTH: L/3 (FT.) / * OF SKIP LINES / * OF CHANNELIZING DEVICES		
		FOR LANE WIDTH IN FT. (LATERAL SHIFT OF TRAFFIC FLOW PATH)			FOR SHOULDER WIDTH		
		10	11	12	≤ 4 FT.	5 - 7 FT.	≥ 8 FT.
45	360/9	440/11/12	520/13/14	560/14/15	80/2/3	80/2/3	120/3/4
50	425/11	520/13/14	560/14/15	600/15/16	80/2/3	120/3/4	160/4/5
55	495/13	560/14/15	600/15/16	680/17/18	80/2/3	120/3/4	160/4/5
65	645/16	640/16/17	720/18/19	800/20/21	80/2/3	160/4/5	200/5/6

TABLE 315-02: ROLL AHEAD DISTANCE

ROLL AHEAD DISTANCE (FT.)/ * OF SKIP LINES FOR VEHICLES		
PRECONSTRUCTION POSTED SPEED LIMIT (MPH)	STATIONARY OPERATION	
	MIN	MAX
≥ 55	120/3	200/5
45 - 50	80/2	160/4

TABLE 315-03: REQUIRED SIGN SIZES

SIGN	FREEWAY
G20-2	48x24
W7-3a	36x30
W20-1	48x48
W21-5aR	48x48
W21-5bR	48x48
WARNING FLAG	18x18

TABLE 315-04: PROTECTIVE VEHICLE REQUIREMENTS

CLOSURE TYPE	ROAD TYPE & SPEED	FREEWAY
	EXPOSURE CONDITIONS ¹	
LANE CLOSURE OR ENCROACHMENT	WORKERS ON FOOT OR VEHICLE EXPOSED TO TRAFFIC	P, TMIA
	OTHER HAZARDS NO WORKERS EXPOSED	P, TMIA
SHOULDER CLOSURE OR ENCROACHMENT	WORKERS ON FOOT OR VEHICLE EXPOSED TO TRAFFIC	P, TMIA
	OTHER HAZARDS NO WORKERS EXPOSED	P, TMIA


LEGEND
P: PROTECTIVE VEHICLE REQUIRED FOR EACH CLOSED LANE & EACH CLOSED PAVED SHOULDER 8' OR WIDER, IF THE WORK SPACE MOVES WITHIN THE STATIONARY CLOSURE, THE PROTECTIVE VEHICLE SHALL BE REPOSITIONED ACCORDINGLY
TMIA: TMIA REQUIRED

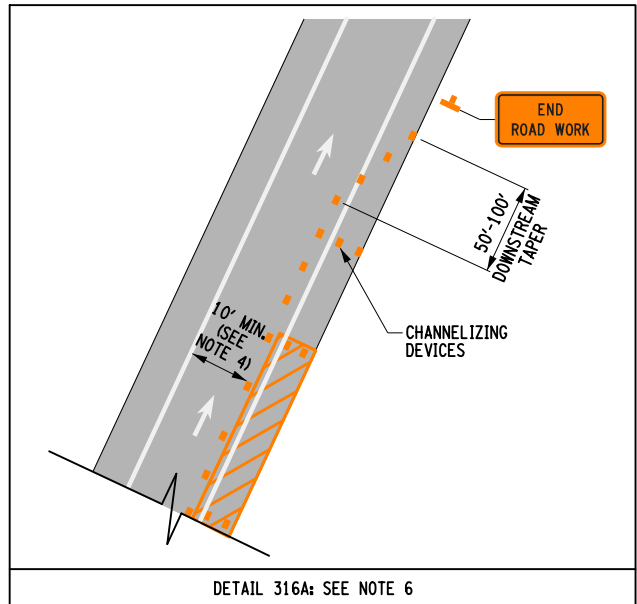
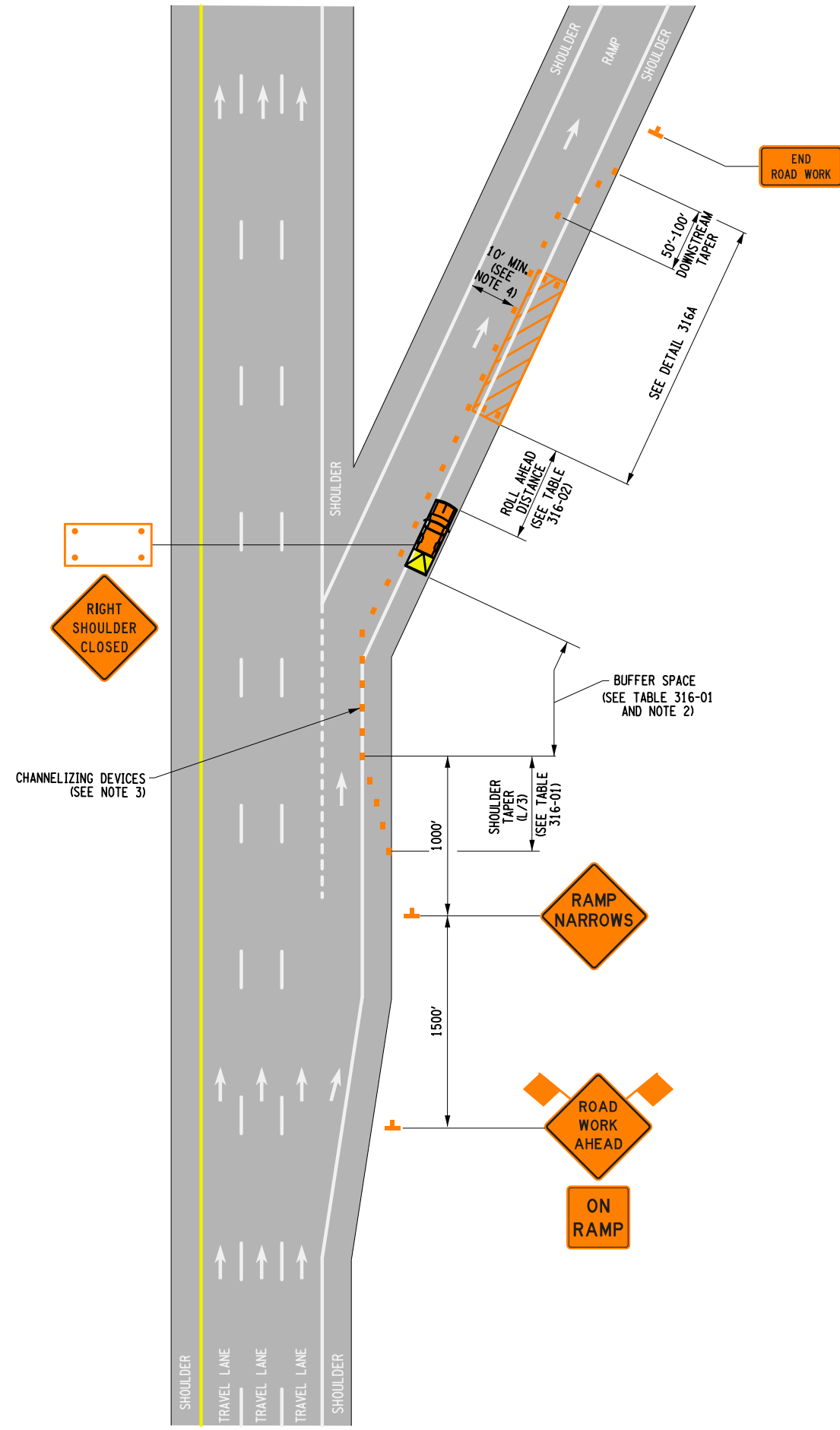
NOTES:
1. THE EXPOSURE CONDITIONS ASSUME THERE IS NO POSITIVE PROTECTION PRESENT

TABLE 315-05: CHANNELIZING DEVICE APPLICATION FOR SHORT-TERM STATIONARY WORK ZONES

WORK ZONE PROVISIONS	MAXIMUM DEVICE SPACING (CENTER TO CENTER)	MUTCD COMPLIANT CHANNELIZING DEVICE								
		DRUMS	STANDARD CONES	TALL CONES	EXTRA TALL CONES	TEMPORARY TUBULAR MARKERS	INTERIM TUBULAR MARKERS	VERTICAL PANELS	OVERSIZED VERTICAL PANELS	TYPE III BARRICADES
SHORT-TERM STATIONARY WORK ZONES INVOLVE WORK THAT OCCUPIES A LOCATION FOR MORE THAN 1 HOUR WITHIN A SINGLE DAYLIGHT PERIOD.										
SHOULDER/MERGING/SHIFTING TAPERS	20 FT.	X	X	X	X			X	X	
	40 FT.	X	X	X	X			X	X	
MARKING FOR TRANSVERSE BUMPS ¹	N/A	X ²			X ²				X ²	
LONGITUDINAL LANE OR SHOULDER CLOSURE W/NO WORKERS PRESENT	80 F.	X	X	X	X			X	X	
TRANSVERSE DEVICE WITHIN CLOSED TRAFFIC LANE AND/OR SHOULDER	800 FT.	X	X	X	X			X	X	0
REMOVAL OF EXISTING GUIDE RAIL	80 FT.			X	X	X		X	X	0
	40 FT.	X		X	X	X		X	X	0

NOTES: X= ALLOWED, BLANK = NOT ALLOWED, 0 = OPTIONAL
1. - A TYPE 1 OBJECT MARKER MAY BE USED IN LIEU OF CHANNELIZING DEVICE.
2. - CHANNELIZING DEVICES SHALL BE EQUIPPED WITH A FLASHING WARNING LIGHT.

 NEW YORK STATE OF OPPORTUNITY.		Department of Transportation	
U.S. CUSTOMARY STANDARD SHEET			
WORK ZONE TRAFFIC CONTROL FREEWAY SHOULDER CLOSURE AT RAMP APPROACH SHORT TERM OPERATION (SHEET 2 OF 2)			
APPROVED APRIL 8, 2022		ISSUED UNDER EI 22-008	
<i>Robert Limoges</i> ROBERT LIMOGES, P.E. DIRECTOR, OTSM		619-315	



- NOTES:
1. SHORT-TERM STATIONARY IS DAYTIME WORK THAT OCCUPIES A LOCATION FOR MORE THAN 1 HOUR WITHIN A SINGLE DAYLIGHT PERIOD.
 2. NO WORK ACTIVITY OR STORAGE OF EQUIPMENT, VEHICLES, OR MATERIAL SHOULD OCCUR WITHIN A BUFFER SPACE.
 3. CHANNELIZING DEVICE SPACING (CENTER TO CENTER) SHALL NOT EXCEED 40' IN THE ACTIVE WORK SPACE.
 4. TRUCK OFF-TRACKING SHOULD BE CONSIDERED WHEN DETERMINING WHETHER THE MINIMAL LANE WIDTH OF 10' IS ADEQUATE.
 5. THE ENGINEER MAY REQUIRE THE USE OF AN ADVISORY SPEED PLAQUE (W13-1) TO SUPPLEMENT A WARNING SIGN. THE PLAQUE WILL BE USED TO INDICATE AN ADVISORY SPEED FOR THE WORK ZONE CONDITION. (IE. NARROW LANES, BUMPS, POOR ROADWAY SURFACE, LOW OR NO SHOULDER, DROP-OFFS, GEOMETRIC CONSTRAINTS, AND/OR POOR SIGHT CONDITIONS).
 6. CHANNELIZING DEVICES SHALL BE PLACED TRANSVERSELY A MINIMUM OF EVERY 800' AS SHOWN WHEN A PAVED SHOULDER HAVING A WIDTH OF 8' OR GREATER IS CLOSED FOR A DISTANCE GREATER THAN 800'.
 7. THE PROTECTIVE VEHICLE(S) SHALL MAINTAIN THE APPROPRIATE ROLL AHEAD DISTANCE, BE AN UNOCCUPIED TRUCK POSITIONED PARALLEL TO TRAFFIC, PARKING BRAKE SET, PLACED IN 2ND GEAR (MANUAL TRANSMISSIONS /ENGINE OFF) OR PARK / NEUTRAL (AUTOMATIC TRANSMISSIONS) AND HAVE THE FRONT WHEELS ALIGNED WITH THE LANE STRIPING.

	G20-2	THIS SIGN SHALL BE LOCATED A MINIMUM DISTANCE OF 80 FT AND MAXIMUM OF 400 FT PAST THE END OF THE DOWNSTREAM TAPER.
	W20-1	
	W5-4	
	W21-5aR	
	W13-4	
		24000 LB PROTECTIVE VEHICLE WITH TMIA SEE TABLE 316-03
		CHANNELIZING DEVICE SEE TABLE 316-04

REFER TO SHEET 2 OF 2 FOR ALL TABLES

Department of Transportation	
U.S. CUSTOMARY STANDARD SHEET	
WORK ZONE TRAFFIC CONTROL FREEWAY PARTIAL EXIT RAMP CLOSURE SHORT TERM OPERATION (SHEET 1 OF 2)	
APPROVED DECEMBER 2, 2021	ISSUED UNDER EI 21-028
Robert Limoges ROBERT LIMOGES, P.E. DIRECTOR, OTSM	619-316

NOT TO SCALE

USC SEPTEMBER 01, 2022

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PRECONSTRUCTION POSTED SPEED LIMIT (MPH)	LONGITUDINAL BUFFER SPACE DISTANCE (FT.) / * OF SKIP LINES	TAPER LENGTH: L (FT.) / * OF SKIP LINES / * OF CHANNELIZING DEVICES			SHOULDER TAPER LENGTH: L/3 (FT.) / * OF SKIP LINES / * OF CHANNELIZING DEVICES		
		FOR LANE WIDTH IN FT. (LATERAL SHIFT OF TRAFFIC FLOW PATH)			FOR SHOULDER WIDTH		
		10	11	12	≤ 4 FT.	5 - 7 FT.	≥ 8 FT.
45	360/9	440/11/12	520/13/14	560/14/15	80/2/3	80/2/3	120/3/4
50	425/11	520/13/14	560/14/15	600/15/16	80/2/3	120/3/4	160/4/5
55	495/13	560/14/15	600/15/16	680/17/18	80/2/3	120/3/4	160/4/5
65	645/16	640/16/17	720/18/19	800/20/21	80/2/3	160/4/5	200/5/6

ROLL AHEAD DISTANCE (FT.) / * OF SKIP LINES FOR VEHICLES		
PRECONSTRUCTION POSTED SPEED LIMIT (MPH)	STATIONARY OPERATION	
	MIN	MAX
≥ 55	120/3	200/5
45 - 50	80/2	160/4

CLOSURE TYPE	ROAD TYPE & SPEED	FREEWAY
	EXPOSURE CONDITIONS ¹	
LANE CLOSURE OR ENCROACHMENT	WORKERS ON FOOT OR VEHICLE EXPOSED TO TRAFFIC	P, TMIA
	OTHER HAZARDS NO WORKERS EXPOSED	P, TMIA
SHOULDER CLOSURE OR ENCROACHMENT	WORKERS ON FOOT OR VEHICLE EXPOSED TO TRAFFIC	P, TMIA
	OTHER HAZARDS NO WORKERS EXPOSED	P, TMIA


LEGEND
P: PROTECTIVE VEHICLE REQUIRED FOR EACH CLOSED LANE & EACH CLOSED PAVED SHOULDER 8' OR WIDER, IF THE WORK SPACE MOVES WITHIN THE STATIONARY CLOSURE, THE PROTECTIVE VEHICLE SHALL BE REPOSITIONED ACCORDINGLY
TMIA: TMIA REQUIRED

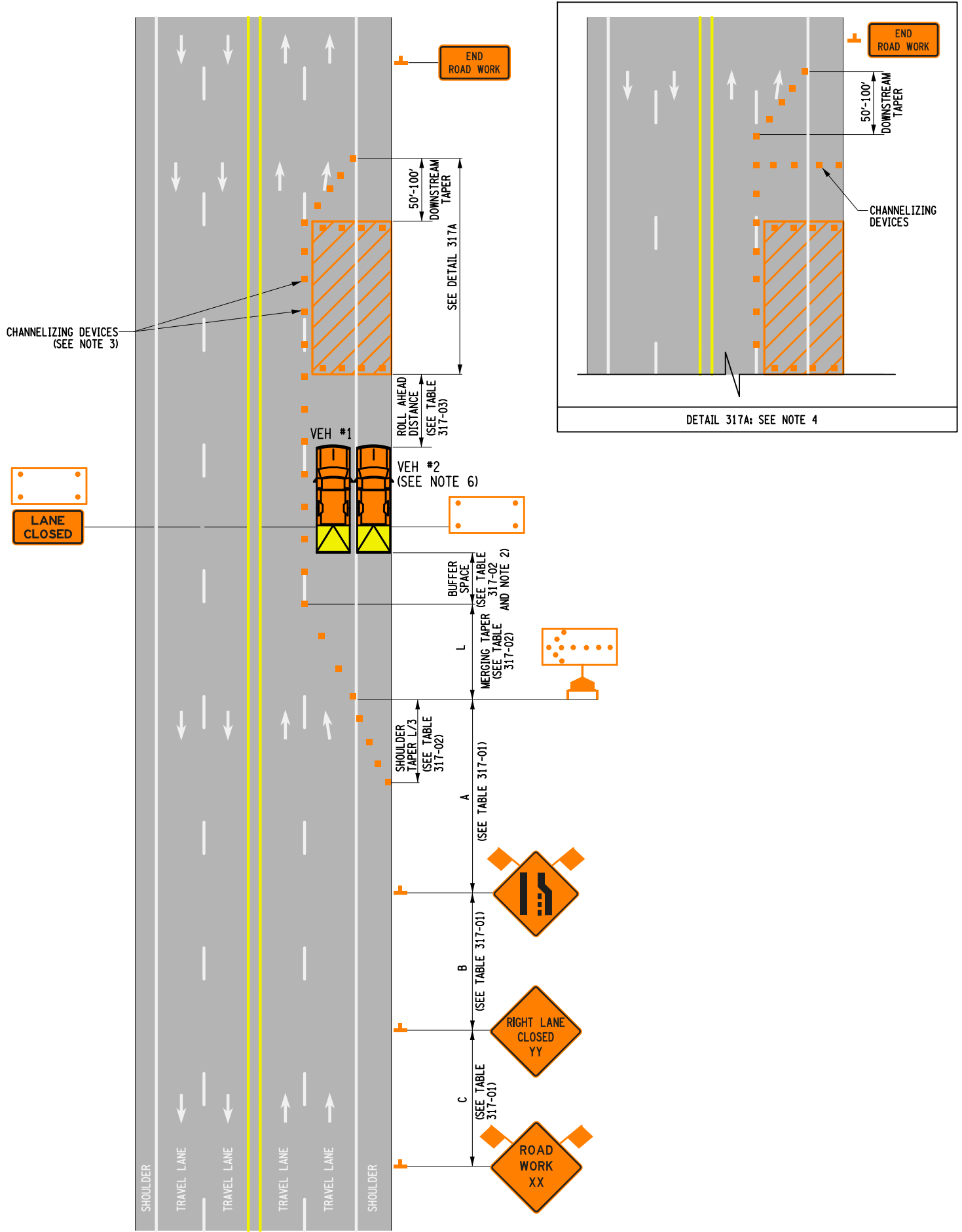
NOTES:
1. THE EXPOSURE CONDITIONS ASSUME THERE IS NO POSITIVE PROTECTION PRESENT

WORK ZONE PROVISIONS	MAXIMUM DEVICE SPACING (CENTER TO CENTER)	MUTCD COMPLIANT CHANNELIZING DEVICE								
		DRUMS	STANDARD CONES	TALL CONES	EXTRA TALL CONES	TEMPORARY TUBULAR MARKERS	INTERIM TUBULAR MARKERS	VERTICAL PANELS	OVERSIZED VERTICAL PANELS	TYPE III BARRICADES
SHORT-TERM STATIONARY WORK ZONES INVOLVE WORK THAT OCCUPIES A LOCATION FOR MORE THAN 1 HOUR WITHIN A SINGLE DAYLIGHT PERIOD.										
SHOULDER/MERGING/SHIFTING TAPERS	20 FT.	X	X	X	X			X	X	
	40 FT.	X	X	X	X			X	X	
MARKING FOR TRANSVERSE BUMPS ¹	N/A	X ²			X ²				X ²	
LONGITUDINAL LANE OR SHOULDER CLOSURE W/NO WORKERS PRESENT	80 F.	X	X	X	X			X	X	
TRANSVERSE DEVICE WITHIN CLOSED TRAFFIC LANE AND/OR SHOULDER	800 FT.	X	X	X	X			X	X	0
REMOVAL OF EXISTING GUIDE RAIL	80 FT.	X		X	X	X		X	X	0
	40 FT.									

NOTES: X= ALLOWED, BLANK = NOT ALLOWED, 0 = OPTIONAL
1. - A TYPE 1 OBJECT MARKER MAY BE USED IN LIEU OF CHANNELIZING DEVICE.
2. - CHANNELIZING DEVICES SHALL BE EQUIPPED WITH A FLASHING WARNING LIGHT.

SIGN	FREEWAY
G20-2	48x24
W5-4	48x48
W13-4	36x36
W20-1	48x48
W21-5	48x48
WARNING FLAG	18x18

 NEW YORK STATE OF OPPORTUNITY.	Department of Transportation
U.S. CUSTOMARY STANDARD SHEET	
WORK ZONE TRAFFIC CONTROL FREEWAY PARTIAL EXIT RAMP CLOSURE SHORT TERM OPERATION (SHEET 2 OF 2)	
APPROVED APRIL 8, 2022	ISSUED UNDER EI 22-008
<i>Robert Limoges</i> ROBERT LIMOGES, P.E. DIRECTOR, OTSM	619-316

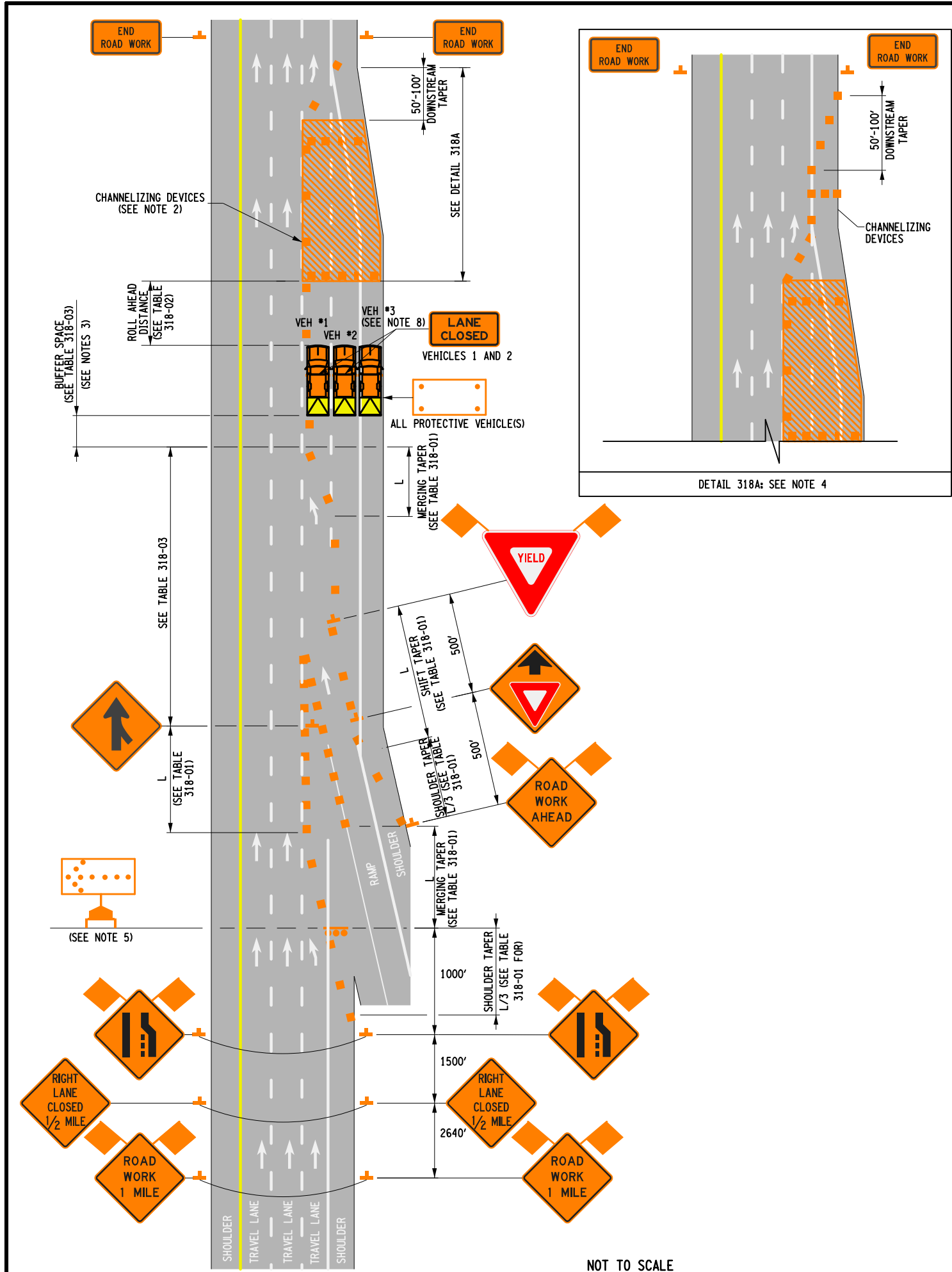


- NOTES:
1. SHORT-TERM STATIONARY IS DAYTIME WORK THAT OCCUPIES A LOCATION FOR MORE THAN 1 HOUR WITHIN A SINGLE DAYLIGHT PERIOD.
 2. NO WORK ACTIVITY, EQUIPMENT, OR STORAGE OF VEHICLES, OR MATERIAL SHALL OCCUR WITHIN THE BUFFER SPACE AT ANY TIME.
 3. CHANNELIZING DEVICE SPACING (CENTER TO CENTER) SHALL NOT EXCEED 40' IN THE ACTIVE WORK SPACE.
 4. CHANNELIZING DEVICES SHALL BE PLACED TRANSVERSELY A MINIMUM OF EVERY 800' AS SHOWN WHEN A PAVED SHOULDER HAVING A WIDTH OF 8' OR GREATER IS CLOSED FOR A DISTANCE GREATER THAN 800'.
 5. THE PROTECTIVE VEHICLE(S) SHALL BE MAINTAIN THE APPROPRIATE ROLL AHEAD DISTANCE, BE AN UNOCCUPIED TRUCK POSITIONED PARALLEL TO TRAFFIC, PARKING BRAKE SET, PLACED IN 2ND GEAR (MANUAL TRANSMISSIONS/ENGINE OFF) OR PARK/NEUTRAL (AUTOMATIC TRANSMISSIONS) AND HAVE THE FRONT WHEELS ALIGNED WITH THE LANE STRIPING.
 6. VEH # 2 IS ONLY NEEDED WHEN THE SHOULDER WIDTH IS $\geq 8'$.

REFER TO SHEET 2 OF 2 FOR ALL TABLES

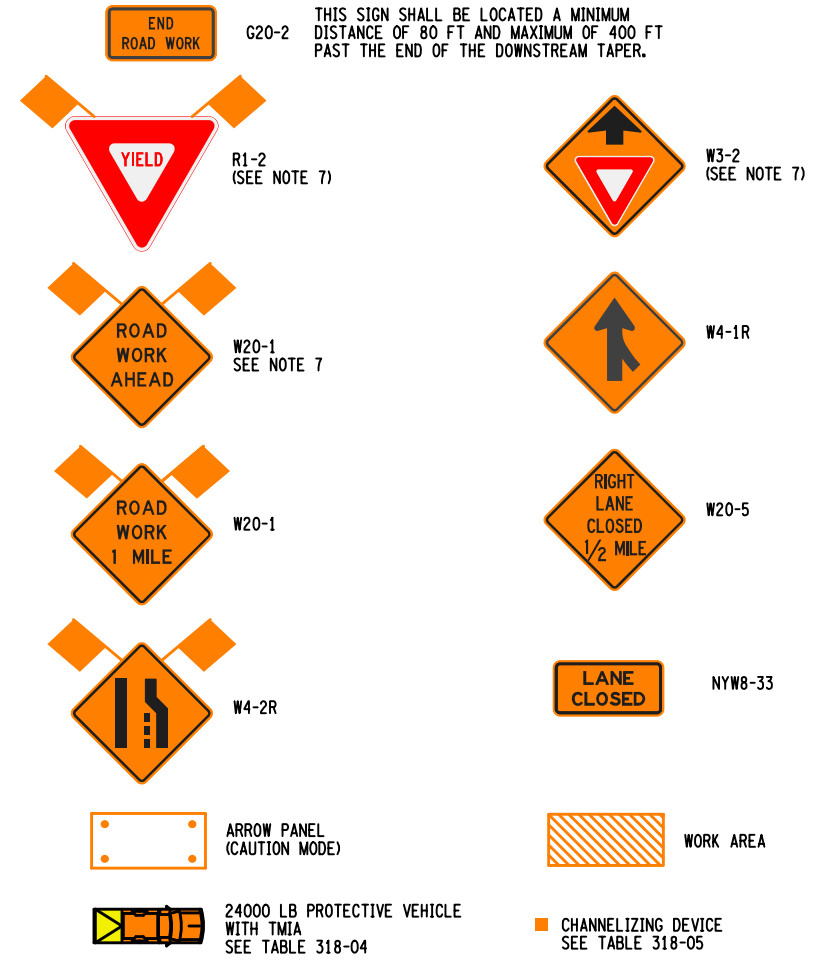
NEW YORK STATE OF OPPORTUNITY.		Department of Transportation	
U.S. CUSTOMARY STANDARD SHEET			
WORK ZONE TRAFFIC CONTROL MULTI LANE UNDIVIDED ROADWAY SINGLE LANE CLOSURE SHORT TERM OPERATION (SHEET 1 OF 2)			
APPROVED DECEMBER 2, 2021		ISSUED UNDER EI 21-028	
Robert Limoges ROBERT LIMOGES, P.E. DIRECTOR, OTSM		619-317	

NOT TO SCALE



NOT TO SCALE

1. SHORT-TERM STATIONARY IS DAYTIME WORK THAT OCCUPIES A LOCATION FOR MORE THAN 1 HOUR WITHIN A SINGLE DAYLIGHT PERIOD.
2. CHANNELIZING DEVICE SPACING (CENTER TO CENTER) SHALL NOT EXCEED 40' IN THE ACTIVE WORK SPACE.
3. NO WORK ACTIVITY, EQUIPMENT, OR STORAGE OF VEHICLES, OR MATERIAL SHALL OCCUR WITHIN THE BUFFER SPACE AT ANY TIME.
4. CHANNELIZING DEVICES SHALL BE PLACED TRANSVERSELY A MINIMUM OF EVERY 800' AS SHOWN WHEN A PAVED SHOULDER HAVING A WIDTH OF 8' OR GREATER IS CLOSED FOR A DISTANCE GREATER THAN 800'.
5. MAINLINE MERGING TAPER WITH THE ARROW PANEL AT ITS STARTING POINT SHALL BE LOCATED SUFFICIENTLY IN ADVANCE SO THAT THE ARROW PANEL IS NOT VISIBLE TO DRIVERS ON THE ENTRANCE RAMP, AND SO THAT THE MAINLINE MERGING TRAFFIC FROM THE LANE CLOSURE HAS THE OPPORTUNITY TO STABILIZE BEFORE ENCOUNTERING THE VEHICULAR TRAFFIC MERGING FROM THE RAMP.
6. IF THE RAMP CURVES SHARPLY TO THE RIGHT, WARNING SIGNS LOCATED IN ADVANCE OF THE ENTRANCE TERMINAL SHALL BE PLACED IN PAIRS (ONE ON EACH SIDE OF THE RAMP).
7. THE PROTECTIVE VEHICLE(S) SHALL MAINTAIN THE APPROPRIATE ROLL AHEAD DISTANCE, BE AN UNOCCUPIED TRUCK POSITIONED PARALLEL TO TRAFFIC, PARKING BRAKE SET, PLACED IN 2ND GEAR (MANUAL TRANSMISSIONS/ENGINE OFF) OR PARK/NEUTRAL (AUTOMATIC TRANSMISSION) AND HAVE THE FRONT WHEELS ALIGNED WITH THE LANE STRIPING.
8. VEH # 3 IS ONLY NEEDED WHEN THE SHOULDER WIDTH IS $\geq 8'$.



REFER TO SHEET 2 OF 2 FOR ALL TABLES

NEW YORK STATE OF OPPORTUNITY.		Department of Transportation	
U.S. CUSTOMARY STANDARD SHEET			
WORK ZONE TRAFFIC CONTROL FREEWAY SINGLE LANE CLOSURE NEAR ENTRANCE RAMP SHORT TERM OPERATION (SHEET 1 OF 2)			
APPROVED DECEMBER 2, 2021		ISSUED UNDER EI 21-028	
Robert Limoges ROBERT LIMOGES, P.E. DIRECTOR, OTSM		619-318	

TABLE 318-01: LONGITUDINAL BUFFER SPACE AND TAPER LENGTHS

PRECONSTRUCTION POSTED SPEED LIMIT (MPH)	LONGITUDINAL BUFFER SPACE DISTANCE (FT.) / * OF SKIP LINES	TAPER LENGTH: L (FT.) / * OF SKIP LINES / * OF CHANNELIZING DEVICES			SHOULDER TAPER LENGTH: L/3 (FT.) / * OF SKIP LINES / * OF CHANNELIZING DEVICES		
		FOR LANE WIDTH IN FT. (LATERAL SHIFT OF TRAFFIC FLOW PATH)			FOR SHOULDER WIDTH		
		10	11	12	≤ 4 FT.	5 - 7 FT.	≥ 8 FT.
45	360/9	440/11/12	520/13/14	560/14/15	80/2/3	80/2/3	120/3/4
50	425/11	520/13/14	560/14/15	600/15/16	80/2/3	120/3/4	160/4/5
55	495/13	560/14/15	600/15/16	680/17/18	80/2/3	120/3/4	160/4/5
65	645/16	640/16/17	720/18/19	800/20/21	80/2/3	160/4/5	200/5/6

TABLE 318-02: ROLL AHEAD DISTANCE

ROLL AHEAD DISTANCE (FT.) / * OF SKIP LINES FOR VEHICLES		
PRECONSTRUCTION POSTED SPEED LIMIT (MPH)	STATIONARY OPERATION	
	MIN	MAX
≥ 55	120/3	200/5
45 - 50	80/2	160/4

TABLE 318-03: ADVANCE PLACEMENT OF WARNING SIGN

PRECONSTRUCTION POSTED SPEED LIMIT (MPH)	ADVANCE PLACEMENT DISTANCE IN FT.
45	930
50	1030
55	1135
60	1280
65	1365

1. BASED ON TABLE NY2C-4 OF NYS SUPPLEMENT TO THE 2009 MUTCD

TABLE 318-04: PROTECTIVE VEHICLE REQUIREMENTS

CLOSURE TYPE	ROAD TYPE & SPEED	FREEWAY
	EXPOSURE CONDITIONS ¹	
LANE CLOSURE OR ENCROACHMENT	WORKERS ON FOOT OR VEHICLE EXPOSED TO TRAFFIC	P, TMIA
	OTHER HAZARDS NO WORKERS EXPOSED	P, TMIA
SHOULDER CLOSURE OR ENCROACHMENT	WORKERS ON FOOT OR VEHICLE EXPOSED TO TRAFFIC	P, TMIA
	OTHER HAZARDS NO WORKERS EXPOSED	P, TMIA

LEGEND

P: PROTECTIVE VEHICLE REQUIRED FOR EACH CLOSED LANE & EACH CLOSED PAVED SHOULDER 8' OR WIDER, IF THE WORK SPACE MOVES WITHIN THE STATIONARY CLOSURE, THE PROTECTIVE VEHICLE SHALL BE REPOSITIONED ACCORDINGLY

TMIA: TMIA REQUIRED

NOTES:

1. THE EXPOSURE CONDITIONS ASSUME THERE IS NO POSITIVE PROTECTION PRESENT

TABLE 318-05: CHANNELIZING DEVICE APPLICATION FOR SHORT-TERM STATIONARY WORK ZONES

WORK ZONE PROVISIONS	MAXIMUM DEVICE SPACING (CENTER TO CENTER)	MUTCD COMPLIANT CHANNELIZING DEVICE								
		DRUMS	STANDARD CONES	TALL CONES	EXTRA TALL CONES	TEMPORARY TUBULAR MARKERS	INTERIM TUBULAR MARKERS	VERTICAL PANELS	OVERSIZED VERTICAL PANELS	TYPE III BARRICADES
SHORT-TERM STATIONARY WORK ZONES INVOLVE WORK THAT OCCUPIES A LOCATION FOR MORE THAN 1 HOUR WITHIN A SINGLE DAYLIGHT PERIOD.	20 FT.	X	X	X	X			X	X	
	40 FT.	X	X	X	X			X	X	
MARKING FOR TRANSVERSE BUMPS ¹	N/A	X ²			X ²				X ²	
LONGITUDINAL LANE OR SHOULDER CLOSURE W/NO WORKERS PRESENT	80 F.	X	X	X	X			X	X	
TRANSVERSE DEVICE WITHIN CLOSED TRAFFIC LANE AND/OR SHOULDER	800 FT.	X	X	X	X			X	X	0
REMOVAL OF EXISTING GUIDE RAIL	80 FT.			X	X	X		X	X	0
	40 FT.	X								

NOTES: X= ALLOWED, BLANK = NOT ALLOWED, 0 = OPTIONAL
1. - A TYPE 1 OBJECT MARKER MAY BE USED IN LIEU OF CHANNELIZING DEVICE.
2. - CHANNELIZING DEVICES SHALL BE EQUIPPED WITH A FLASHING WARNING LIGHT.

TABLE 318-06: REQUIRED SIGN SIZES

SIGN	FREEWAY
G20-2	48x24
NYW8-33	48x24
R1-2	48x48
W3-2	48x48
W4-1R	48x48
W4-2R	48x48
W20-1	48x48
W20-5	48x48
WARNING FLAG	18x18



Department of Transportation

U.S. CUSTOMARY STANDARD SHEET

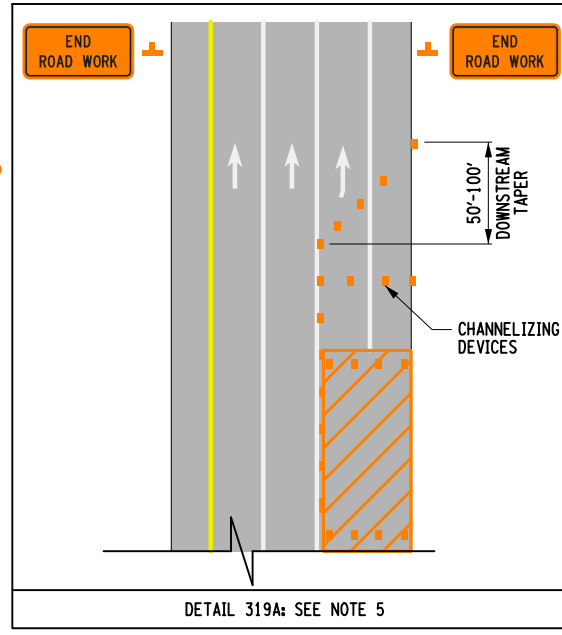
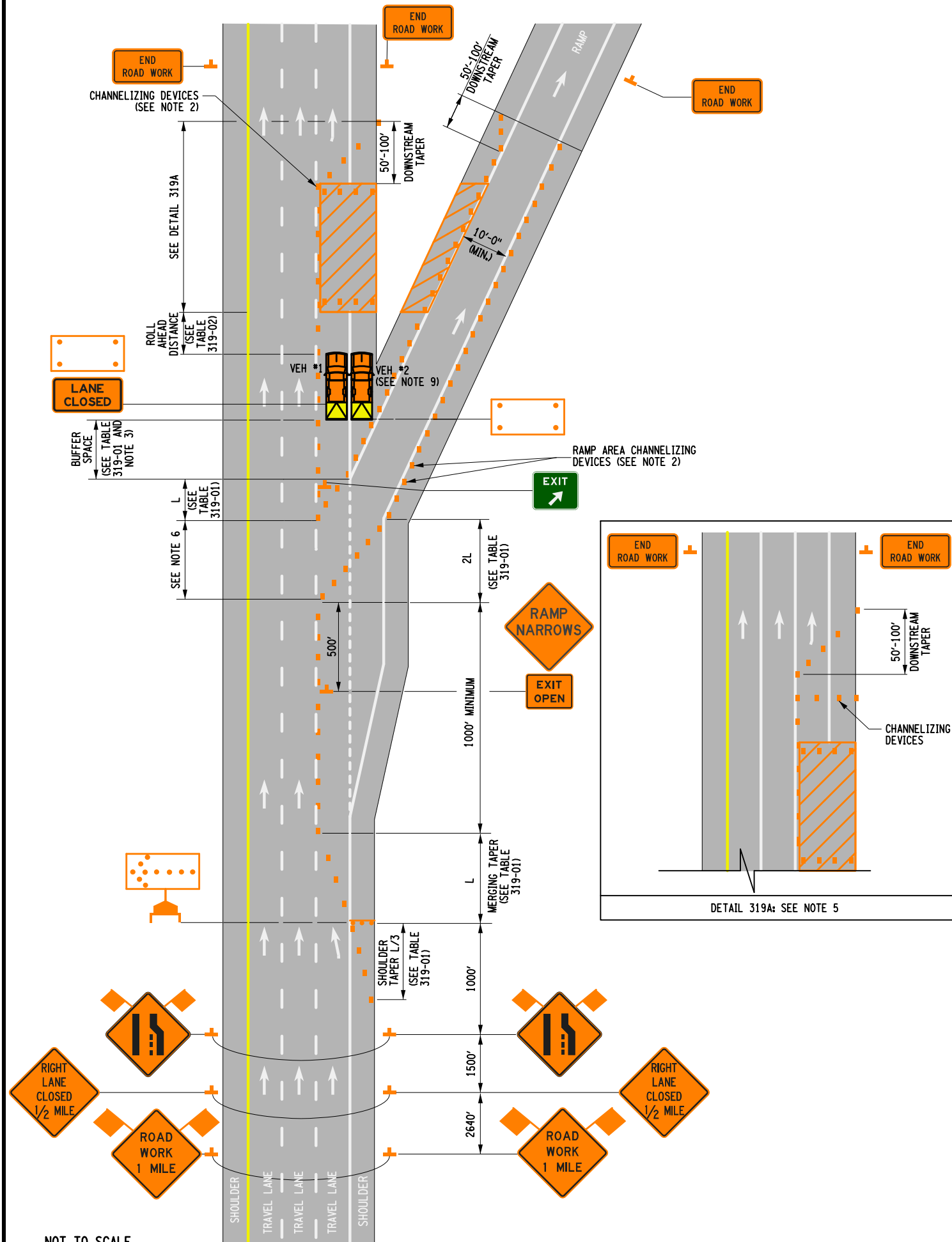
**WORK ZONE TRAFFIC CONTROL
FREEWAY
SINGLE LANE CLOSURE NEAR ENTRANCE RAMP
SHORT TERM OPERATION
(SHEET 2 OF 2)**

APPROVED APRIL 8, 2022

ISSUED UNDER EI 22-008

Robert Limoges
ROBERT LIMOGES, P.E.
DIRECTOR, OTSM

619-318



- NOTES:
1. SHORT-TERM STATIONARY IS DAYTIME WORK THAT OCCUPIES A LOCATION FOR MORE THAN 1 HOUR WITHIN A SINGLE DAYLIGHT PERIOD.
 2. CHANNELIZING DEVICE SPACING (CENTER TO CENTER) SHALL NOT EXCEED 20' IN THE ACTIVE WORK SPACE.
 3. NO WORK ACTIVITY, EQUIPMENT, OR STORAGE OF VEHICLES, OR MATERIAL SHALL OCCUR WITHIN THE BUFFER SPACE AT ANY TIME.
 4. IF WORK ACTIVITY PERMITS, A MOVABLE BARRIER MAY BE USED AND RELOCATED TO THE SHOULDER.
 5. CHANNELIZING DEVICES SHALL BE PLACED TRANSVERSELY A MINIMUM OF EVERY 800' AS SHOWN WHEN A PAVED SHOULDER HAVING A WIDTH OF 8' OR GREATER IS CLOSED FOR A DISTANCE GREATER THAN 800'.
 6. THE TEMPORARY RAMP OPENING SHALL MATCH THE OPENING OF THE EXISTING RAMP.
 7. TRUCK OFF-TRACKING SHOULD BE CONSIDERED WHEN DETERMINING WHETHER THE MINIMAL LANE WIDTH OF 10' IS ADEQUATE.
 8. THE PROTECTIVE VEHICLE(S) SHALL MAINTAIN THE APPROPRIATE ROLL AHEAD DISTANCE, BE AN UNOCCUPIED TRUCK POSITIONED PARALLEL TO TRAFFIC, PARKING BRAKE SET, PLACED IN 2ND GEAR (MANUAL TRANSMISSIONS/ENGINE OFF) OR PARK/NEUTRAL (AUTOMATIC TRANSMISSIONS) AND HAVE THE FRONT WHEELS ALIGNED WITH THE LANE STRIPING.
 9. VEH # 2 IS ONLY NEEDED WHEN THE SHOULDER WIDTH IS $\geq 8'$.

	W20-1		W20-5
	W4-2R		E5-1
	ARROW PANEL (CAUTION MODE)		ARROW PANEL
	G20-2	THIS SIGN SHALL BE LOCATED A MINIMUM DISTANCE OF 80 FT AND MAXIMUM OF 400 FT PAST THE END OF THE DOWNSTREAM TAPER.	
	WORK AREA		NYW8-33
	24000 LB PROTECTIVE VEHICLE WITH TMA SEE TABLE 319-03		E5-2
	CHANNELIZING DEVICE SEE TABLE 319-04		W5-4

REFER TO SHEET 2 OF 2 FOR ALL TABLES

NEW YORK STATE OF OPPORTUNITY.		Department of Transportation	
U.S. CUSTOMARY STANDARD SHEET			
WORK ZONE TRAFFIC CONTROL FREEWAY SINGLE LANE CLOSURE NEAR EXIT RAMP SHORT TERM OPERATION (SHEET 1 OF 2)			
APPROVED DECEMBER 2, 2021		ISSUED UNDER EI 21-028	
Robert Limoges ROBERT LIMOGES, P.E. DIRECTOR, OTSM		619-319	

USC SEPTEMBER 01, 2022

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PRECONSTRUCTION POSTED SPEED LIMIT (MPH)	LONGITUDINAL BUFFER SPACE DISTANCE (FT.) / * OF SKIP LINES	TAPER LENGTH: L (FT.) / * OF SKIP LINES / * OF CHANNELIZING DEVICES			SHOULDER TAPER LENGTH: L/3 (FT.) / * OF SKIP LINES / * OF CHANNELIZING DEVICES		
		FOR LANE WIDTH IN FT. (LATERAL SHIFT OF TRAFFIC FLOW PATH)			FOR SHOULDER WIDTH		
		10	11	12	≤ 4 FT.	5 - 7 FT.	≥ 8 FT.
45	360/9	440/11/12	520/13/14	560/14/15	80/2/3	80/2/3	120/3/4
50	425/11	520/13/14	560/14/15	600/15/16	80/2/3	120/3/4	160/4/5
55	495/13	560/14/15	600/15/16	680/17/18	80/2/3	120/3/4	160/4/5
65	645/16	640/16/17	720/18/19	800/20/21	80/2/3	160/4/5	200/5/6

ROLL AHEAD DISTANCE (FT.) / * OF SKIP LINES FOR VEHICLES		
PRECONSTRUCTION POSTED SPEED LIMIT (MPH)	STATIONARY OPERATION	
	MIN	MAX
≥ 55	120/3	200/5
45 - 50	80/2	160/4

CLOSURE TYPE	ROAD TYPE & SPEED	FREEWAY
	EXPOSURE CONDITIONS ¹	
LANE CLOSURE OR ENCROACHMENT	WORKERS ON FOOT OR VEHICLE EXPOSED TO TRAFFIC	P, TMIA
	OTHER HAZARDS NO WORKERS EXPOSED	P, TMIA
SHOULDER CLOSURE OR ENCROACHMENT	WORKERS ON FOOT OR VEHICLE EXPOSED TO TRAFFIC	P, TMIA
	OTHER HAZARDS NO WORKERS EXPOSED	P, TMIA

LEGEND
P: PROTECTIVE VEHICLE REQUIRED FOR EACH CLOSED LANE & EACH CLOSED PAVED SHOULDER 8' OR WIDER, IF THE WORK SPACE MOVES WITHIN THE STATIONARY CLOSURE, THE PROTECTIVE VEHICLE SHALL BE REPOSITIONED ACCORDINGLY
TMIA: TMIA REQUIRED


NOTES:
1. THE EXPOSURE CONDITIONS ASSUME THERE IS NO POSITIVE PROTECTION PRESENT

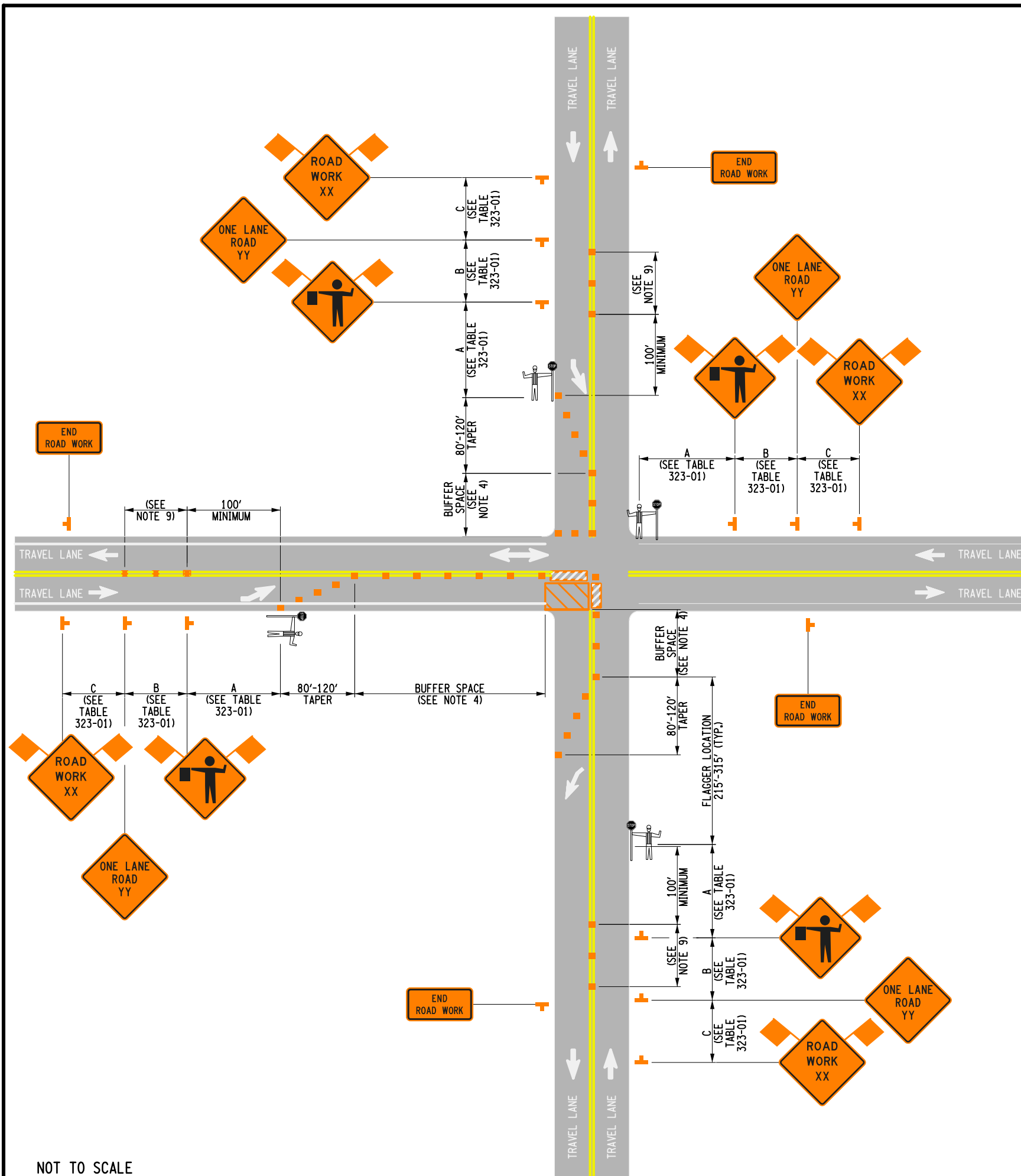
WORK ZONE PROVISIONS	MAXIMUM DEVICE SPACING (CENTER TO CENTER)	MUTCD COMPLIANT CHANNELIZING DEVICE								
		DRUMS	STANDARD CONES	TALL CONES	EXTRA TALL CONES	TEMPORARY TUBULAR MARKERS	INTERIM TUBULAR MARKERS	VERTICAL PANELS	OVERSIZED VERTICAL PANELS	TYPE III BARRICADES
SHORT-TERM STATIONARY WORK ZONES INVOLVE WORK THAT OCCUPIES A LOCATION FOR MORE THAN 1 HOUR WITHIN A SINGLE DAYLIGHT PERIOD.										
SHOULDER/MERGING/SHIFTING TAPERS	20 FT.	X	X	X	X			X	X	
	40 FT.	X	X	X	X			X	X	
MARKING FOR TRANSVERSE BUMPS ¹	N/A	X ²			X ²				X ²	
LONGITUDINAL LANE OR SHOULDER CLOSURE W/NO WORKERS PRESENT	80 FT.	X	X	X	X			X	X	
TRANSVERSE DEVICE WITHIN CLOSED TRAFFIC LANE AND/OR SHOULDER	800 FT.	X	X	X	X			X	X	0
REMOVAL OF EXISTING GUIDE RAIL	80 FT.	X		X	X	X		X	X	0
	40 FT.									

NOTES: X= ALLOWED, BLANK = NOT ALLOWED, 0 = OPTIONAL
1. - A TYPE 1 OBJECT MARKER MAY BE USED IN LIEU OF CHANNELIZING DEVICE.
2. - CHANNELIZING DEVICES SHALL BE EQUIPPED WITH A FLASHING WARNING LIGHT.

SIGN	NON-FREEWAY	FREEWAY
E5-1	----	72x60
E5-2	48x36	48x36
G20-2	36x18	48x24
NYW8-33	48x24	48x24
W4-2R	36x36	48x48
W5-4	36x36	48x48
W20-1	36x36	48x48
W20-5	36x36	48x48
WARNING FLAG	18x18	18x18

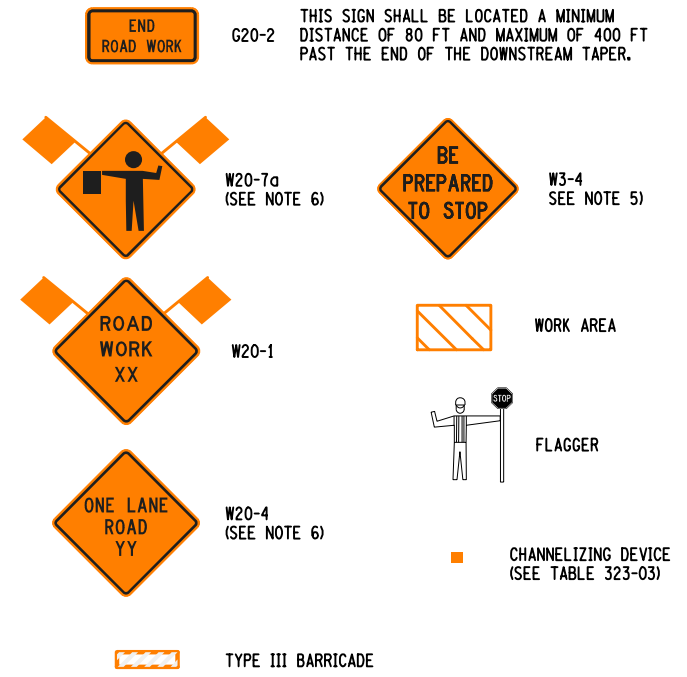
*FREEWAY SIZES MAY BE USED ON NON-FREEWAY, IF SPACE CONSTRAINTS DO NOT EXIST.

 NEW YORK STATE OF OPPORTUNITY.	Department of Transportation
U.S. CUSTOMARY STANDARD SHEET	
WORK ZONE TRAFFIC CONTROL FREEWAY SINGLE LANE CLOSURE NEAR EXIT RAMP SHORT TERM OPERATION (SHEET 2 OF 2)	
APPROVED APRIL 8, 2022	ISSUED UNDER EI 22-008
<i>Robert Limoges</i> ROBERT LIMOGES, P.E. DIRECTOR, OTSM	619-319



NOTES:

1. SHORT-TERM STATIONARY IS DAYTIME WORK THAT OCCUPIES A LOCATION FOR MORE THAN 1 HOUR WITHIN A SINGLE DAYLIGHT PERIOD.
2. AT SIGNALIZED INTERSECTIONS, SIGNALS SHALL BE TURNED OFF FOR ANY FLAGGING OPERATIONS, UNLESS OTHERWISE AUTHORIZED BY THE ENGINEER.
3. CHANNELIZING DEVICE SPACING (CENTER TO CENTER) SHALL NOT EXCEED 40' IN THE ACTIVE WORK SPACE.
4. WHERE DIRECTED BY THE ENGINEER, A BUFFER SPACE SHALL BE PROVIDED IN ORDER TO LOCATE THE ONE-LANE, TWO-WAY TRAFFIC TAPER PRIOR TO ANY HORIZONTAL OR VERTICAL CURVE, IN ORDER TO PROVIDE ADEQUATE SIGHT DISTANCE FOR THE FLAGGERS AND/OR A QUEUE OF STOPPED VEHICLES.
5. IF THE TRAFFIC IS EXPECTED TO QUEUE PAST THE W20-4 SIGN, A W3-4 SIGN SHOULD BE ADDED HALFWAY BETWEEN THE W20-4 AND W20-1 SIGNS.
6. FLAGGER SIGN (W20-7a) AND ONE LANE ROAD AHEAD SIGN (W20-4) SHALL BE REMOVED, COVERED OR TURNED AWAY FROM ROAD USERS WHEN FLAGGING OPERATIONS ARE NOT OCCURRING.
7. ALL FLAGGERS SHALL USE 24" (MIN.) OCTAGON SHAPED STOP/SLOW PADDLES HAVING 6' STAFF. THE PADDLE IS THE PREFERRED DEVICE, BUT THE FLAG MAY BE USED AT INTERSECTIONS WHERE THE STOP/SLOW PADDLE WOULD OFFER CONTRADICTING INFORMATION TO DRIVERS TRAVELING IN OPPOSITE DIRECTIONS/LEGS OF THE INTERSECTION OR DURING INCIDENT MANAGEMENT SITUATIONS.
8. ADDITIONAL FLAGGERS SHALL BE LOCATED AT ALL INTERSECTIONS AND COMMERCIAL DRIVEWAYS LOCATED WITHIN OR NEAR THE ACTIVE WORK AREA.
9. CENTERLINE CONES MAY BE ADDED TO ENHANCE THE VISIBILITY OF THE FLAGGER STATION. IF CONES ARE USED, PLACE THEM 100 FT. (MINIMUM) FROM FLAGGER.
10. NO WORK ACTIVITY, EQUIPMENT, OR STORAGE OF VEHICLES, OR MATERIAL SHALL OCCUR WITHIN THE BUFFER SPACE AT ANY TIME.



REFER TO SHEET 2 OF 2 FOR ALL TABLES

NEW YORK STATE OF OPPORTUNITY.		Department of Transportation	
U.S. CUSTOMARY STANDARD SHEET			
WORK ZONE TRAFFIC CONTROL TWO-LANE TWO-WAY ROADWAY FLAGGING OPERATION AT INTERSECTION SHORT TERM OPERATION (SHEET 1 OF 2)			
APPROVED DECEMBER 2, 2021		ISSUED UNDER EI 21-028	
Robert Limoges ROBERT LIMOGES, P.E. DIRECTOR, OTSM		619-323	

NOT TO SCALE

TABLE 323-01: ADVANCE WARNING SIGN SPACING

ROAD TYPE	DISTANCE BETWEEN SIGNS			SIGN LEGEND	
	A (FT.)	B (FT.)	C (FT.)	XX	YY
URBAN (≤ 30 MPH*)	100	100	100	AHEAD	AHEAD
URBAN (35-40 MPH*)	200	200	200	AHEAD	AHEAD
URBAN (≥ 45 MPH*)	350	350	350	1000 FT.	AHEAD
RURAL	500	500	500	1500 FT.	1000 FT.

* PRECONSTRUCTION POSTED SPEED LIMIT

TABLE 323-02: REQUIRED SIGN SIZES*

SIGN	NON-FREEWAY	FREEWAY
G20-2	36x18	48x24
W3-4	36x36	48x48
W20-1	36x36	48x48
W20-4	36x36	48x48
W20-7a	36x36	48x48
WARNING FLAG	18x18	18x18

*FREEWAY SIZES MAY BE USED ON NON-FREEWAY, IF SPACE CONSTRAINTS DO NOT EXIST.

TABLE 323-03: CHANNELIZING DEVICE APPLICATION FOR SHORT-TERM STATIONARY WORK ZONES

WORK ZONE PROVISIONS	MAXIMUM DEVICE SPACING (CENTER TO CENTER)	MUTCD COMPLIANT CHANNELIZING DEVICE								
		DRUMS	STANDARD CONES	TALL CONES	EXTRA TALL CONES	TEMPORARY TUBULAR MARKERS	INTERIM TUBULAR MARKERS	VERTICAL PANELS	OVERSIZED VERTICAL PANELS	TYPE III BARRICADES
SHORT-TERM STATIONARY WORK ZONES INVOLVE WORK THAT OCCUPIES A LOCATION FOR MORE THAN 1 HOUR WITHIN A SINGLE DAYLIGHT PERIOD.	20 FT.	X	X	X	X			X	X	
	40 FT.	X	X	X	X			X	X	
MARKING FOR TRANSVERSE BUMPS ¹	N/A	X ²			X ²				X ²	
LONGITUDINAL LANE OR SHOULDER CLOSURE W/NO WORKERS PRESENT	80 F.	X	X	X	X			X	X	
TRANSVERSE DEVICE WITHIN CLOSED TRAFFIC LANE AND/OR SHOULDER	800 FT.	X	X	X	X			X	X	0
REMOVAL OF EXISTING GUIDE RAIL	80 FT.	X		X	X	X		X	X	0
	40 FT.									

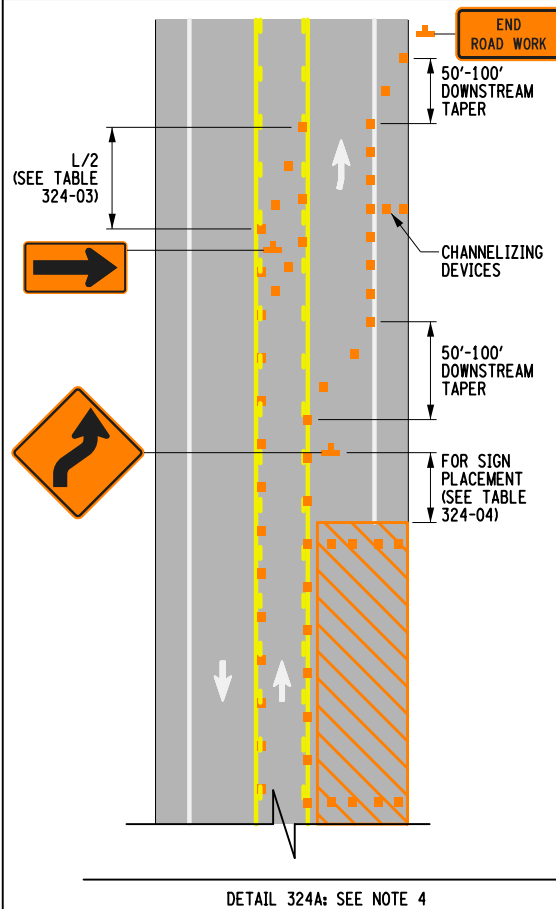
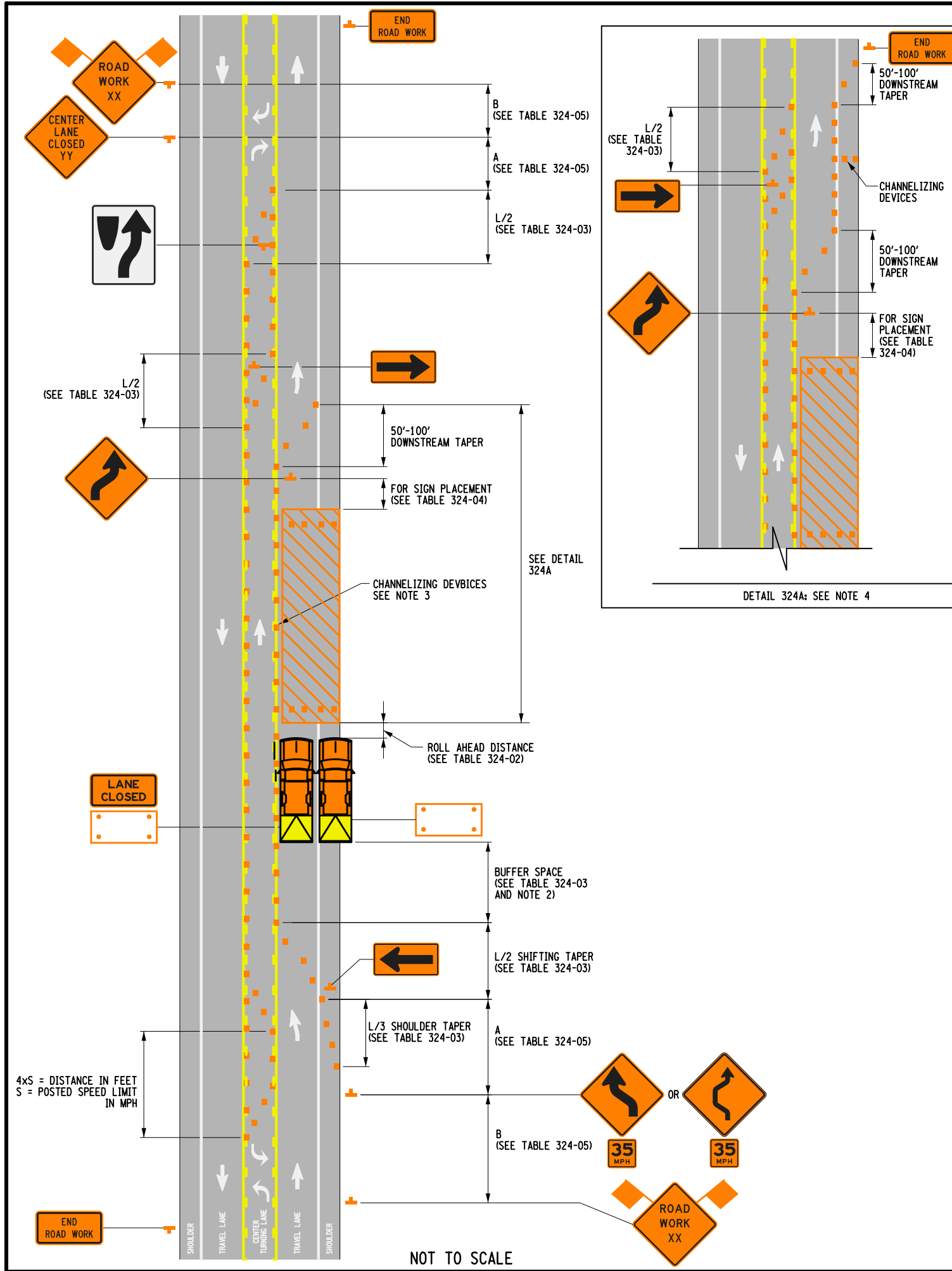
NOTES: X= ALLOWED, BLANK = NOT ALLOWED, 0 = OPTIONAL
 1. - A TYPE 1 OBJECT MARKER MAY BE USED IN LIEU OF CHANNELIZING DEVICE.
 2. - CHANNELIZING DEVICES SHALL BE EQUIPPED WITH A FLASHING WARNING LIGHT.



U.S. CUSTOMARY STANDARD SHEET

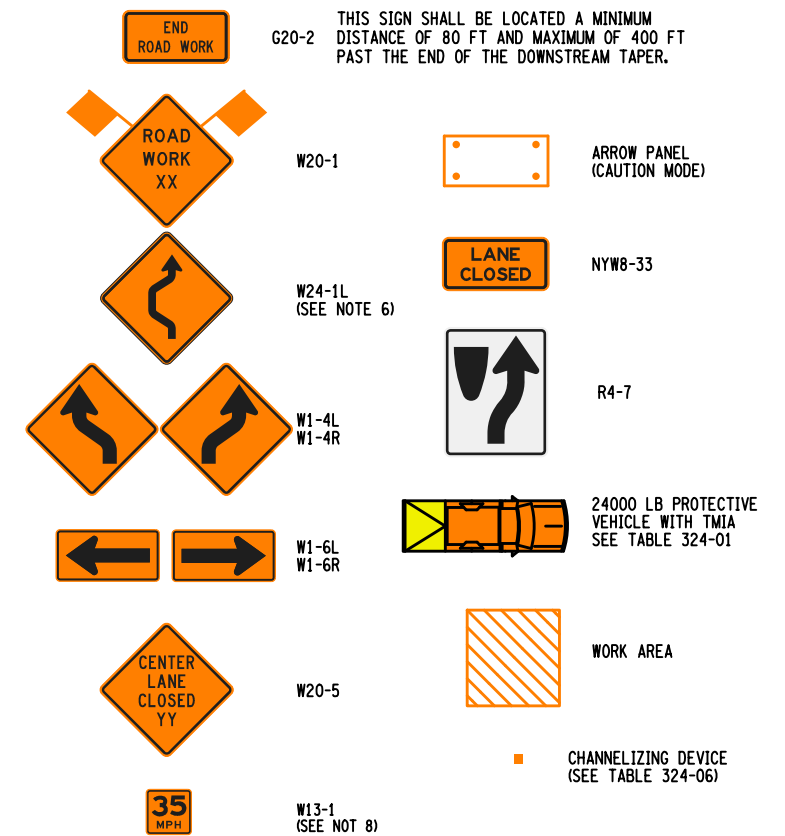
**WORK ZONE TRAFFIC CONTROL
TWO-LANE TWO-WAY ROADWAY
FLAGGING OPERATION AT INTERSECTION
SHORT TERM OPERATION
(SHEET 2 OF 2)**

APPROVED APRIL 8, 2022	ISSUED UNDER EI 22-008
<i>Robert Limoges</i> ROBERT LIMOGES, P.E. DIRECTOR, OTSM	619-323



NOTES:

1. SHORT-TERM STATIONARY IS DAYTIME WORK THAT OCCUPIES A LOCATION FOR MORE THAN 1 HOUR WITHIN A SINGLE DAYLIGHT PERIOD.
2. NO WORK ACTIVITY, EQUIPMENT, OR STORAGE OF VEHICLES, OR MATERIAL SHALL OCCUR WITHIN THE BUFFER SPACE AT ANY TIME.
3. CHANNELIZING DEVICE SPACING (CENTER TO CENTER) SHALL NOT EXCEED 40' IN THE ACTIVE WORK SPACE, AND 20' IN THE TURN LANE TAPER SPACE.
4. CHANNELIZING DEVICES SHALL BE PLACED TRANSVERSELY A MINIMUM OF EVERY 800' AS SHOWN WHEN A PAVED SHOULDER HAVING A WIDTH OF 8' OR GREATER IS CLOSED FOR A DISTANCE GREATER THAN 800'.
5. WHERE THE SHIFTED SECTION IS LONGER THAN 600', ONE REVERSE CURVE SIGN SHOULD BE USED TO SHOW THE INITIAL SHIFT AND A SECOND SIGN SHOULD BE USED TO SHOW THE RETURN TO THE NORMAL ALIGNMENT. IF THE TANGENT DISTANCE ALONG THE TEMPORARY DIVERSION IS LESS THAN 600', THE DOUBLE REVERSE CURVE SIGN (W24-1L) SHOULD BE USED INSTEAD OF THE FIRST REVERSE CURVE SIGN (W1-4L) AND THE SECOND REVERSE CURVE SIGN (W1-4R) SHOULD BE OMITTED.
6. THE ENGINEER MAY REQUIRE THE USE OF AN ADVISORY SPEED PLAQUE (W13-1) TO SUPPLEMENT A WARNING SIGN. THE PLAQUE WILL BE USED TO INDICATE AN ADVISORY SPEED FOR THE WORK ZONE CONDITION (IE. NARROW LANES, BUMPS, POOR ROADWAY SURFACE, LOW OR NO SHOULDER, DROP-OFFS, GEOMETRIC CONSTRAINTS, AND/OR POOR SIGHT CONDITIONS).
7. THE PROTECTIVE VEHICLE(S) SHALL MAINTAIN THE APPROPRIATE ROLL AHEAD DISTANCE, BE AN UNOCCUPIED TRUCK POSITIONED PARALLEL TO TRAFFIC. PARKING BRAKE SET, PLACED IN 2ND GEAR (MANUAL TRANSMISSIONS/ENGINE OFF) OR PARK/NEUTRAL (AUTOMATIC TRANSMISSIONS) AND HAVE THE FRONT WHEELS ALIGNED WITH THE LANE STRIPING.
8. AN ADVISORY SPEED PLAQUE (W13-1) IS RECOMMENDED TO SUPPLEMENT A WARNING SIGN IN ORDER TO INDICATE AN ADVISORY SPEED FOR THE WORK ZONE CONDITION (IE. NARROW LANES, BUMPS, POOR ROADWAY SURFACE, LOW OR NO SHOULDER, DROP-OFFS, GEOMETRIC CONSTRAINTS, AND/OR POOR SIGHT CONDITIONS).



REFER TO SHEET 2 OF 2 FOR ALL TABLES

NEW YORK STATE OF OPPORTUNITY.		Department of Transportation	
U.S. CUSTOMARY STANDARD SHEET			
WORK ZONE TRAFFIC CONTROL TWO-LANE TWO-WAY ROADWAY SINGLE LANE SHIFT WITH TWO-WAY LEFT TURN LANE SHORT TERM OPERATION (SHEET 1 OF 2)			
APPROVED DECEMBER 2, 2021		ISSUED UNDER EI 21-028	
Robert Limoges ROBERT LIMOGES, P.E. DIRECTOR, OTSM		619-324	

TABLE 324-01: PROTECTIVE VEHICLE REQUIREMENTS				
CLOSURE TYPE	ROAD TYPE & SPEED	NON-FREEWAY		
		≥ 45 MPH	35 - 40 MPH	≤ 30 MPH
EXPOSURE CONDITIONS ¹				
LANE CLOSURE OR ENCROACHMENT	WORKERS ON FOOT OR VEHICLE EXPOSED TO TRAFFIC	P, TMA	P, TMA	P
	OTHER HAZARDS NO WORKERS EXPOSED	P, TMA	P	SEE NOTE 2
SHOULDER CLOSURE OR ENCROACHMENT	WORKERS ON FOOT OR VEHICLE EXPOSED TO TRAFFIC	P, TMA	P	P
	OTHER HAZARDS NO WORKERS EXPOSED	P, TMA	P	SEE NOTE 2

LEGEND
P: PROTECTIVE VEHICLE REQUIRED FOR EACH CLOSED LANE & EACH CLOSED PAVED SHOULDER 8' OR WIDER, IF THE WORK SPACE MOVES WITHIN THE STATIONARY CLOSURE, THE PROTECTIVE VEHICLE SHALL BE REPOSITIONED ACCORDINGLY
TMA: TMA REQUIRED

NOTES:
1. THE EXPOSURE CONDITIONS ASSUME THERE IS NO POSITIVE PROTECTION PRESENT
2. EITHER A PROTECTIVE VEHICLE OR THE STANDARD BUFFER SPACE SHALL BE PROVIDED

TABLE 324-02: ROLL AHEAD DISTANCE		
ROLL AHEAD DISTANCE (FT.)/ * OF SKIP LINES FOR VEHICLES		
PRECONSTRUCTION POSTED SPEED LIMIT (MPH)	STATIONARY OPERATION	
	MIN	MAX
≥ 55	120/3	200/5
45 - 50	80/2	160/4
≤ 40	40/1	120/3

TABLE 324-03: LONGITUDINAL BUFFER SPACE AND TAPER LENGTHS							
PRECONSTRUCTION POSTED SPEED LIMIT (MPH)	LONGITUDINAL BUFFER SPACE DISTANCE (FT.)/ * OF SKIP LINES	TAPER LENGTH: L (FT.)/ * OF SKIP LINES/ * OF CHANNELIZING DEVICES			SHOULDER TAPER LENGTH: L/3 (FT.)/ * OF SKIP LINES/ * OF CHANNELIZING DEVICES		
		FOR LANE WIDTH IN FT. (LATERAL SHIFT OF TRAFFIC FLOW PATH)			FOR SHOULDER WIDTH		
		10	11	12	≤ 4 FT.	5 - 7 FT.	≥ 8 FT.
25	155/4	120/3/4	120/3/4	120/3/4	40/1/2	40/1/2	40/1/2
30	200/5	160/4/5	160/4/5	200/5/6	40/1/2	40/1/2	40/1/2
35	250/6	200/5/6	240/6/7	240/6/7	40/1/2	40/1/2	80/2/3
40	305/8	280/7/8	320/8/9	320/8/9	40/1/2	80/2/3	80/2/3
45	360/9	440/11/12	520/13/14	560/14/15	80/2/3	80/2/3	120/3/4
50	425/11	520/13/14	560/14/15	600/15/16	80/2/3	120/3/4	160/4/5
55	495/13	560/14/15	600/15/16	680/17/18	80/2/3	120/3/4	160/4/5

TABLE 324-05: ADVANCE WARNING SIGN SPACING					
ROAD TYPE	DISTANCE BETWEEN SIGNS			SIGN LEGEND	
	A (FT.)	B (FT.)	C (FT.)	XX	YY
URBAN (≤ 30 MPH*)	100	100	100	AHEAD	AHEAD
URBAN (35-40 MPH*)	200	200	200	AHEAD	AHEAD
URBAN (≥ 45 MPH*)	350	350	350	1000 FT.	AHEAD
RURAL	500	500	500	1500 FT.	1000 FT.

* PRECONSTRUCTION POSTED SPEED LIMIT

TABLE 324-06: CHANNELIZING DEVICE APPLICATION FOR SHORT-TERM STATIONARY WORK ZONES										
WORK ZONE PROVISIONS	MAXIMUM DEVICE SPACING (CENTER TO CENTER)	MUTCD COMPLIANT CHANNELIZING DEVICE								
		DRUMS	STANDARD CONES	TALL CONES	EXTRA TALL CONES	TEMPORARY TUBULAR MARKERS	INTERIM TUBULAR MARKERS	VERTICAL PANELS	OVERSIZED VERTICAL PANELS	TYPE III BARRICADES
SHORT-TERM STATIONARY WORK ZONES INVOLVE WORK THAT OCCUPIES A LOCATION FOR MORE THAN 1 HOUR WITHIN A SINGLE DAYLIGHT PERIOD.	20 FT.	X	X	X	X			X	X	
	40 FT.	X	X	X	X			X	X	
SHOULDER/MERGING/ SHIFTING TAPERS										
MARKING FOR TRANSVERSE BUMPS ¹	N/A	X ²			X ²				X ²	
LONGITUDINAL LANE OR SHOULDER CLOSURE W/NO WORKERS PRESENT	80 F.	X	X	X	X			X	X	
TRANSVERSE DEVICE WITHIN CLOSED TRAFFIC LANE AND/OR SHOULDER	800 FT.	X	X	X	X			X	X	0
REMOVAL OF EXISTING GUIDE RAIL	80 FT.									
	40 FT.	X		X	X	X		X	X	0

NOTES: X= ALLOWED, BLANK = NOT ALLOWED, 0 = OPTIONAL
1. - A TYPE 1 OBJECT MARKER MAY BE USED IN LIEU OF CHANNELIZING DEVICE.
2. - CHANNELIZING DEVICES SHALL BE EQUIPPED WITH A FLASHING WARNING LIGHT.

TABLE 324-04: GUIDELINES FOR ADVANCE PLACEMENT OF WARNING SIGNS													
POSTED OR 85 TH PERCENTILE SPEED (MPH)	ADVANCE PLACEMENT DISTANCE (FT.) ¹												
	CONDITION A: SPEED REDUCTION AND LANE CHANGING IN HEAVY TRAFFIC ²	CONDITION B: DECELERATION TO THE LISTED ADVISORY SPEED (MPH) FOR THE CONDITION ⁴											
		CONDITION C: NO SPEED REDUCTION NECESSARY ⁵											
	0 ³	5	10	15	20	25	30	35	40	45	50	55	
20	410	115	110	105	90	75	-	-	-	-	-	-	-
25	515	155	160	150	135	120	95	-	-	-	-	-	-
30	620	200	205	195	185	165	140	110	-	-	-	-	-
35	720	250	255	245	235	215	190	160	130	-	-	-	-
40	825	305	320	310	295	280	255	225	190	150	-	-	-
45	930	360	380	370	360	340	315	285	255	210	165	-	-
50	1030	425	455	450	435	415	390	360	330	285	240	185	-
55	1135	495	530	520	505	490	460	435	400	355	315	255	205

NOTES:
1. THE DISTANCES HAVE NOT BEEN MODIFIED TO ACCOUNT FOR SIGN LEGIBILITY.
2. TYPICAL CONDITIONS ARE LOCATIONS WHERE THE ROAD USER MUST USE EXTRA TIME TO ADJUST SPEED AND CHANGE LANES IN HEAVY TRAFFIC BECAUSE OF A COMPLEX DRIVING SITUATION. TYPICAL SIGNS ARE MERGE AND RIGHT LAND ENDS. THE DISTANCES ARE TAKEN FROM THE 2004 AASHTO POLICY, EXHIBIT 3-3, DECISION SIGHT DISTANCE, AVOIDANCE MANEUVER E.
3. TYPICAL CONDITION IS THE WARNING OF A POTENTIAL STOP SITUATION. TYPICAL SIGNS ARE STOP AHEAD, YIELD AHEAD, SIGNAL AHEAD, AND INTERSECTION WARNING SIGNS. THE DISTANCES ARE TAKEN FROM THE 2004 AASHTO POLICY, STOPPING SIGHT DISTANCE, EXHIBIT 3-1.
4. TYPICAL CONDITIONS ARE LOCATIONS WHERE THE ROAD USER MUST DECREASE SPEED TO MANEUVER THROUGH THE WARNED CONDITION. TYPICAL SIGNS ARE TURN, CURVE, REVERSE TURN, OR REVERSE CURVE. THE DISTANCES ARE DETERMINED BY PROVIDING A 2.5 SECOND PRT AND A VEHICLE DECELERATION RATE OF 10 FT./SECOND.²
5. TYPICAL SIGNS ARE ADDED LANE, ROAD NARROWS, DIVIDED HIGHWAY, AND CONDITION B SIGNS DISPLAYED WITHOUT AN ADVISORY SPEED.

TABLE 324-07: REQUIRED SIGN SIZES*		
SIGN	NON-FREEWAY	FREEWAY
G20-2	36x18	48x24
NYW8-33	48x24	48x24
R4-7	24x30	36x48
W1-4L/W1-4R	36x36	48x48
W1-6L/W1-6R	48x24	60x30
W9-3	36x36	48x48
W13-1	36x36	48x48
W20-1	24x24	30x30
W20-4	36x36	48x48
W20-5	36x36	48x48
W24-1L	36x36	48x48
WARNING FLAG	18x18	18x18

*FREEWAY SIZES MAY BE USED ON NON-FREEWAY, IF SPACE CONSTRAINTS DO NOT EXIST.

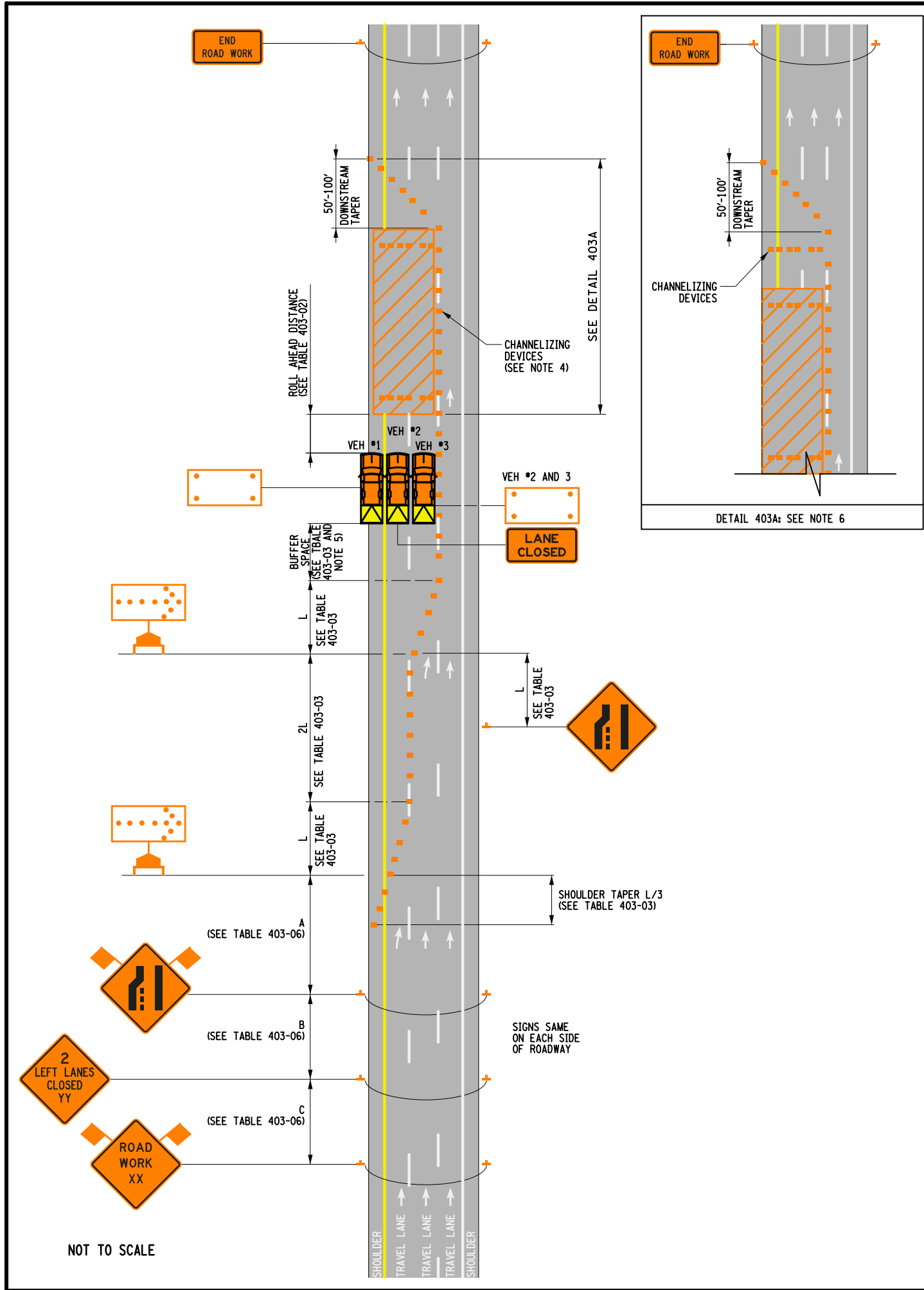
Department of Transportation

U.S. CUSTOMARY STANDARD SHEET

WORK ZONE TRAFFIC CONTROL
TWO-LANE TWO-WAY ROADWAY
SINGLE LANE SHIFT WITH TWO-WAY
LEFT TURN LANE SHORT TERM OPERATION
(SHEET 2 OF 2)

APPROVED APRIL 8, 2022
ISSUED UNDER EI 22-008

ROBERT LIMOGES, P.E.
DIRECTOR, OTSM
619-324

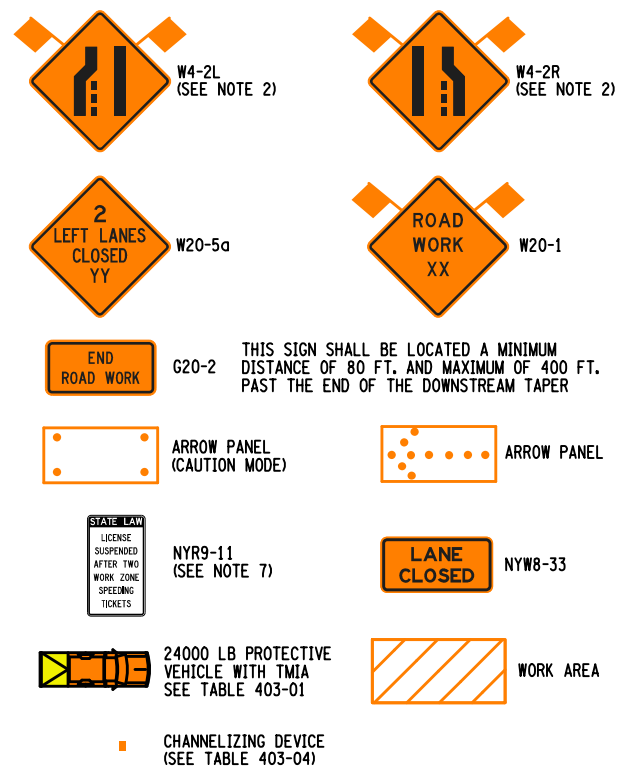


NOTES:

1. INTERMEDIATE-TERM IS STATIONARY WORK THAT OCCUPIES A LOCATION MORE THAN ONE DAYLIGHT PERIOD UP TO 3 CONSECUTIVE DAYS, OR NIGHTTIME WORK LASTING MORE THAN 1 HOUR.
2. RIGHT LANE CLOSURES ARE SYMMETRICAL TO LEFT LANE CLOSURES. SUBSTITUTE RIGHT TWO LANES CLOSED 1/2 MILE SIGN (W20-5a) AND THE CORRESPONDING LANE ENDS SIGN (W4-2R).
3. THE PROTECTIVE VEHICLE(S) SHALL MAINTAIN THE APPROPRIATE ROLL AHEAD DISTANCE, BE AN UNOCCUPIED TRUCK POSITIONED PARALLEL TO TRAFFIC, PARKING BRAKE SET, PLACED IN 2ND GEAR (MANUAL TRANSMISSIONS /ENGINE OFF) OR PARK / NEUTRAL (AUTOMATIC TRANSMISSIONS) AND HAVE THE FRONT WHEELS ALIGNED WITH THE LANE STRIPING.
4. CHANNELIZING DEVICE SPACING (CENTER TO CENTER) SHALL NOT EXCEED 20' IN THE ACTIVE WORK SPACE.
5. NO WORK ACTIVITY, EQUIPMENT, OR STORAGE OF VEHICLES, OR MATERIAL SHALL OCCUR WITHIN THE BUFFER SPACE AT ANY TIME.
6. CHANNELIZING DEVICES SHALL BE PLACED TRANSVERSELY A MINIMUM OF EVERY 800' AS SHOWN WHEN A PAVED SHOULDER HAVING A WIDTH OF 8' OR GREATER IS CLOSED FOR A DISTANCE GREATER THAN 800'.
7. THE NY9-11 SIGN IS RECOMMENDED. WHEN USED, IT SHALL BE PLACED IN ADVANCE OF THE FIRST ADVANCE WARNING SIGN. THE PLACEMENT DISTANCE SHALL BE 1000' FOR POSTED SPEED LIMITS OF 45 MPH OR HIGHER, AND 300' - 500' FOR POSTED SPEED LIMITS OF LESS THAN 45 MPH.

NOTES ON NIGHTTIME WORK:

- N1. WORK OCCURRING AFTER SUNSET AND BEFORE SUNRISE WILL BE CONSIDERED NIGHTTIME OPERATIONS.
- N2. ALL SIGNS, STOP/SLOW PADDLES AND RED FLAGS USED TO WARN/ALERT/CONTROL TRAFFIC SHALL BE RETROREFLECTIVE.
- N3. ALL WORKERS INVOLVED SHALL WEAR PROTECTIVE HELMETS AND NIGHTTIME APPAREL IN ACCORDANCE WITH §107-05A. HIGH VISIBILITY APPAREL AT ALL TIMES.
- N4. VEHICLES OPERATING ON THE PAVEMENT OF A CLOSED ROADWAY OR TRAVEL LANE SHALL DISPLAY ROTATING AMBER BEACONS OR FLASHING LED BEACONS AT ALL TIMES.
- N5. LEVEL I ILLUMINATION SHALL BE PROVIDED NEAR THE BEGINNING OF LANE CLOSURE TAPERS AND AT ROAD CLOSURES, INCLUDING THE SETUP AND REMOVAL OF THE CLOSURE TAPERS.
- N6. LEVEL II ILLUMINATION SHALL BE PROVIDED FOR FLAGGING STATIONS, ASPHALT PAVING, MILLING, AND CONCRETE PLACEMENT AND/OR REMOVAL OPERATIONS, INCLUDING BRIDGE DECKS, 50 FEET AHEAD OF AND 100 FEET BEHIND A PAVING OR MILLING MACHINE.
- N7. LEVEL III ILLUMINATION SHALL BE PROVIDED FOR PAVEMENT OR STRUCTURAL CRACK FILLING, JOINT REPAIR, PAVEMENT PATCHING AND REPAIRS, INSTALLATION OF SIGNAL EQUIPMENT OR OTHER ELECTRICAL/MECHANICAL EQUIPMENT, AND OTHER TASKS INVOLVING FINE DETAILS OR INTRICATE PARTS AND EQUIPMENT.
- N8. ALL LIGHTING SHALL BE DESIGNED, INSTALLED, AND OPERATED TO AVOID GLARE THAT AFFECTS TRAFFIC ON THE ROADWAY OR THAT CAUSES ANNOYANCE OR DISCOMFORT FOR RESIDENCES ADJOINING THE ROADWAY.
- N9. PRIOR TO THE START OF NIGHTTIME OPERATIONS, A WRITTEN NIGHTTIME OPERATIONS AND LIGHTING PLAN IS REQUIRED FOR APPROVAL.
- N10. SEE NIGHTTIME SAFETY BULLETIN, HDM §16.5.7, & STANDARD SPECIFICATIONS §619 FOR ADDITIONAL REQUIREMENTS AND CONSIDERATIONS.



REFER TO SHEET 2 OF 2 FOR ALL TABLES

Department of Transportation	
U.S. CUSTOMARY STANDARD SHEET	
WORK ZONE TRAFFIC CONTROL MULTI-LANE DIVIDED ROADWAY AND FREEWAY LEFT (OR RIGHT) TWO LANE CLOSURE INTERMEDIATE TERM (SHEET 1 OF 2)	
APPROVED DECEMBER 2, 2021	ISSUED UNDER EI 21-028
Robert Limoges ROBERT LIMOGES, P.E. DIRECTOR, OTSM	619-403

CLOSURE TYPE	ROAD TYPE & SPEED	FREEWAY	NON-FREEWAY		
			≥ 45 MPH	35 - 40 MPH	≤ 30 MPH
LANE CLOSURE OR ENCROACHMENT	WORKERS ON FOOT OR VEHICLE EXPOSED TO TRAFFIC	P, TMIA	P, TMIA	P, TMIA	SEE NOTE 2
	OTHER HAZARDS NO WORKERS EXPOSED	P, TMIA	P, TMIA	SEE NOTE 2	SEE NOTE 2
SHOULDER CLOSURE OR ENCROACHMENT	WORKERS ON FOOT OR VEHICLE EXPOSED TO TRAFFIC	P, TMIA	P, TMIA	SEE NOTE 2	SEE NOTE 2
	OTHER HAZARDS NO WORKERS EXPOSED	P, TMIA	SEE NOTE 2	SEE NOTE 2	SEE NOTE 2

LEGEND
 P: PROTECTIVE VEHICLE REQUIRED FOR EACH CLOSED LANE & EACH CLOSED PAVED SHOULDER 8' OR WIDER, IF THE WORK SPACE MOVES WITHIN THE STATIONARY CLOSURE, THE PROTECTIVE VEHICLE SHALL BE REPOSITIONED ACCORDINGLY
 TMIA: TMIA REQUIRED

NOTES:
 1. THE EXPOSURE CONDITIONS ASSUME THERE IS NO POSITIVE PROTECTION PRESENT
 2. EITHER A PROTECTIVE VEHICLE OR THE STANDARD BUFFER SPACE SHALL BE PROVIDED

ROLL AHEAD DISTANCE (FT.)/# OF SKIP LINES FOR VEHICLES		
PRECONSTRUCTION POSTED SPEED LIMIT (MPH)	STATIONARY OPERATION	
	MIN	MAX
≥ 55	120/3	200/5
45 - 50	80/2	160/4
≤ 40	40/1	120/3

PRECONSTRUCTION POSTED SPEED LIMIT (MPH)	LONGITUDINAL BUFFER SPACE DISTANCE (FT.) / # OF SKIP LINES	TAPER LENGTH: L (FT.) / # OF SKIP LINES / # OF CHANNELIZING DEVICES			SHOULDER TAPER LENGTH: L/3 (FT.) / # OF SKIP LINES / # OF CHANNELIZING DEVICES		
		FOR LANE WIDTH IN FT. (LATERAL SHIFT OF TRAFFIC FLOW PATH)			FOR SHOULDER WIDTH		
		10	11	12	≤ 4 FT.	5 - 7 FT.	≥ 8 FT.
25	155/4	120/3/4	120/3/4	120/3/4	40/1/2	40/1/2	40/1/2
30	200/5	160/4/5	160/4/5	200/5/6	40/1/2	40/1/2	40/1/2
35	250/6	200/5/6	240/6/7	240/6/7	40/1/2	40/1/2	80/2/3
40	305/8	280/7/8	320/8/9	320/8/9	40/1/2	80/2/3	80/2/3
45	360/9	440/11/12	520/13/14	560/14/15	80/2/3	80/2/3	120/3/4
50	425/11	520/13/14	560/14/15	600/15/16	80/2/3	120/3/4	160/4/5
55	495/13	560/14/15	600/15/16	680/17/18	80/2/3	120/3/4	160/4/5
65	645/16	640/16/17	720/18/19	800/20/21	80/2/3	160/4/5	200/5/6

WORK ZONE PROVISIONS	MAXIMUM DEVICE SPACING (CENTER TO CENTER)	MUTCD COMPLIANT CHANNELIZING DEVICE								
		DRUMS	STANDARD CONES	TALL CONES	EXTRA TALL CONES	TEMPORARY TUBULAR MARKERS	INTERIM TUBULAR MARKERS	VERTICAL PANELS	OVERSIZED VERTICAL PANELS	TYPE III BARRICADES
INTERMEDIATE-TERM STATIONARY WORK ZONES INVOLVE WORK THAT OCCUPIES A LOCATION FOR MORE THAN 1 DAYLIGHT PERIOD UP TO 3 CONSECUTIVE DAYS, OR NIGHTTIME WORK THAT OCCUPIES A LOCATION FOR MORE THAN 1 HOUR	20 FT. *	X							X	
	40 FT.	X							X	
MARKING FOR TRANSVERSE BUMPS ¹	N/A	X ²			X ²				X ²	
TRANSVERSE DEVICE WITHIN CLOSED TRAFFIC LANE AND/OR SHOULDER	800 FT.	X		X	X			X	X	0
REMOVAL OF EXISTING GUIDE RAIL	80 FT.	X		X	X	X		X	X	0
	40 FT.									

NOTES: X= ALLOWED, BLANK = NOT ALLOWED, 0 = OPTIONAL
 1. - A TYPE 1 OBJECT MARKER MAY BE USED IN LIEU OF CHANNELIZING DEVICE.
 2. - CHANNELIZING DEVICES SHALL BE EQUIPPED WITH A FLASHING WARNING LIGHT.
 * SEE NOTE 4 ON SHEET 1 OF 2.

SIGN	NON-FREEWAY	FREEWAY
G20-2	36x18	48x24
NYW8-33	48x24	48x24
W4-2L	36x36	48x48
W4-2R	36x36	48x48
W20-1	36x36	48x48
W20-5a	36x36	48x48
NYR9-11	24x42	48x84
WARNING FLAG	18x18	18x18

*FREEWAY SIZES MAY BE USED ON NON-FREEWAY, IF SPACE CONSTRAINTS DO NOT EXIST.

ROAD TYPE	DISTANCE BETWEEN SIGNS			SIGN LEGEND	
	A (FT.)	B (FT.)	C (FT.)	XX	YY
URBAN (≤ 30 MPH*)	100	100	100	AHEAD	AHEAD
URBAN (35-40 MPH*)	200	200	200	AHEAD	AHEAD
URBAN (≥ 45 MPH*)	350	350	350	1000 FT.	AHEAD
RURAL	500	500	500	1500 FT.	1000 FT.

* PRECONSTRUCTION POSTED SPEED LIMIT

NEW YORK
STATE OF OPPORTUNITY.

Department of Transportation

U.S. CUSTOMARY STANDARD SHEET

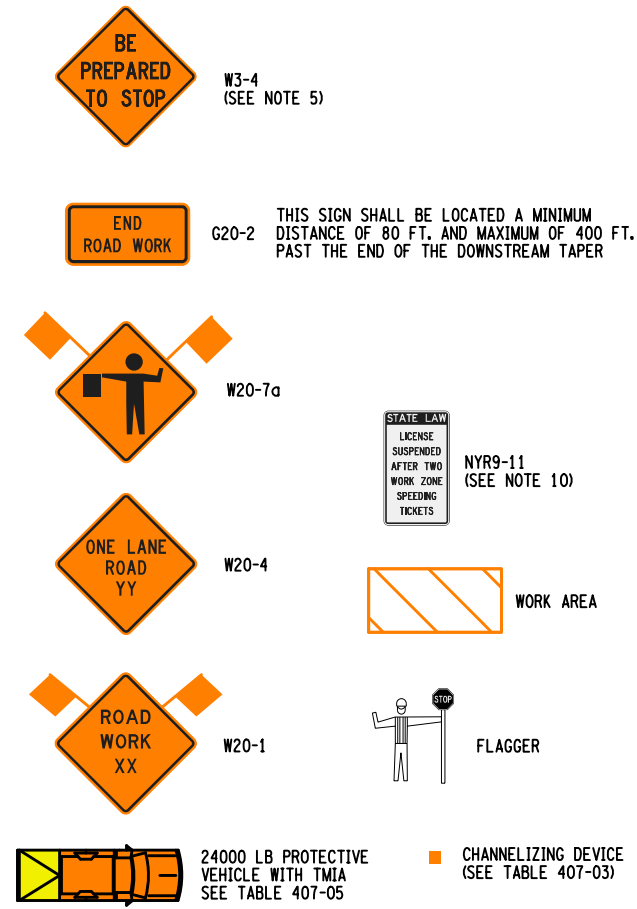
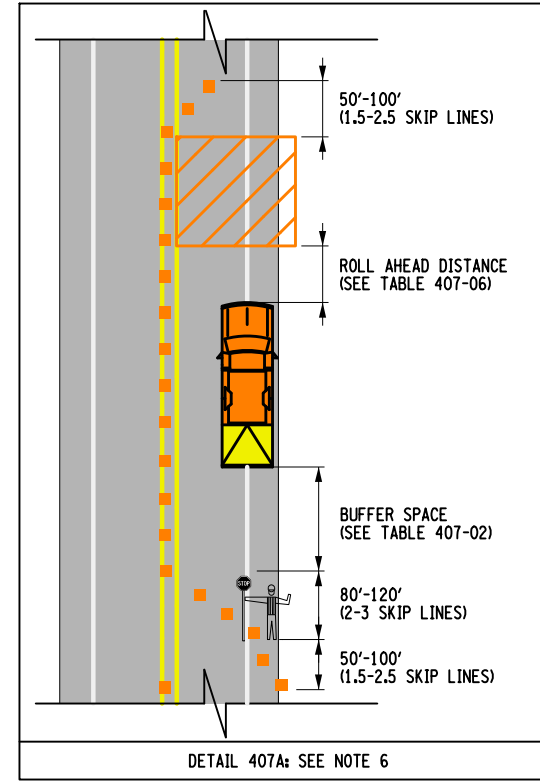
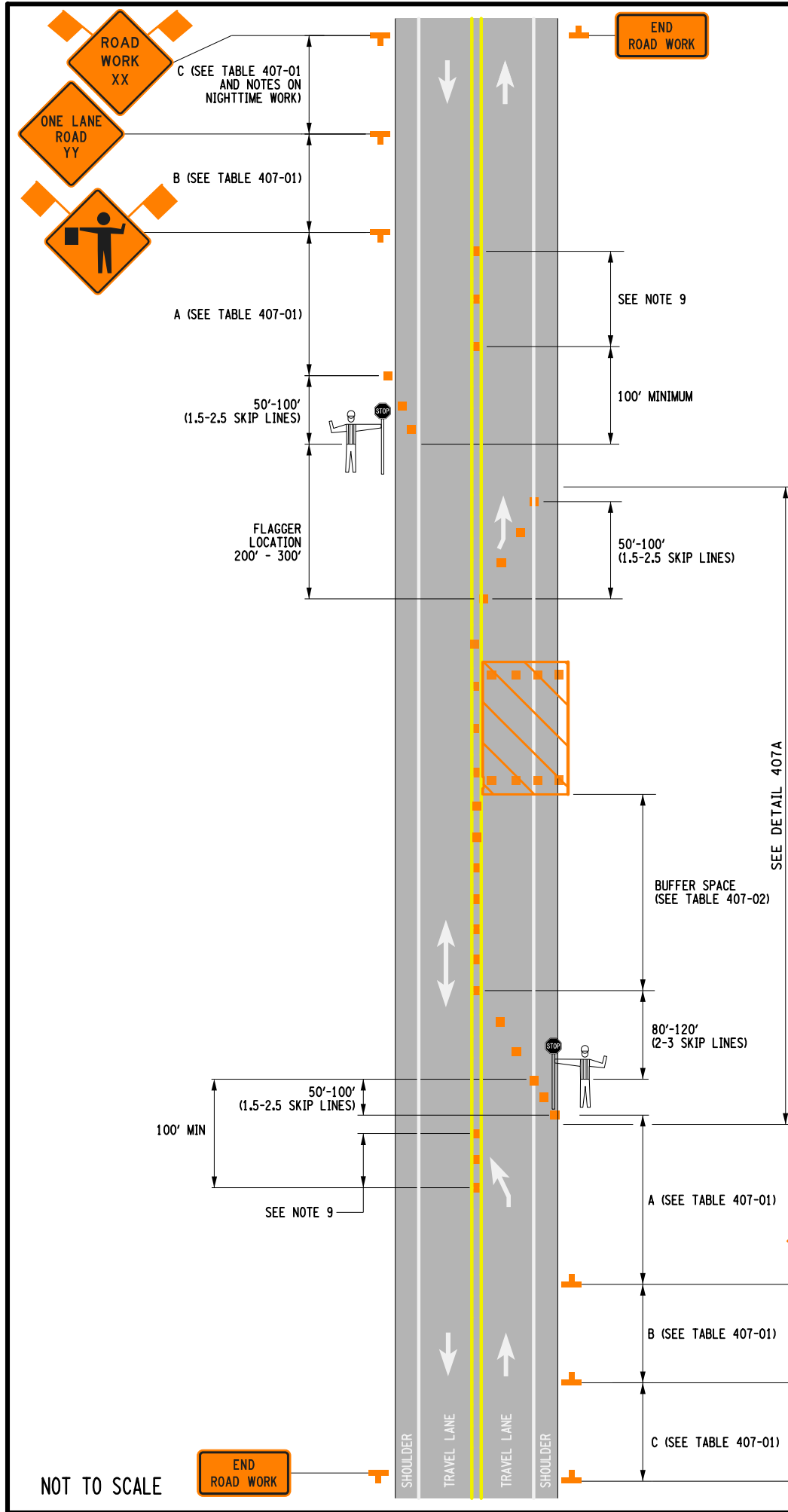
**WORK ZONE TRAFFIC CONTROL
MULTI-LANE DIVIDED ROADWAY AND FREEWAY
LEFT (OR RIGHT) TWO LANE CLOSURE
INTERMEDIATE TERM
(SHEET 2 OF 2)**

APPROVED APRIL 8, 2022

ISSUED UNDER EI 22-008

Robert Limoges
ROBERT LIMOGES, P.E.
DIRECTOR, OTSM

619-403



- NOTES:
- INTERMEDIATE-TERM IS STATIONARY WORK THAT OCCUPIES A LOCATION MORE THAN ONE DAYLIGHT PERIOD UP TO 3 CONSECUTIVE DAYS, OR NIGHTTIME WORK LASTING MORE THAN 1 HOUR.
 - WHEN A SIDE ROAD OR DRIVEWAY INTERSECTS THE ROADWAY WITHIN A WORK ZONE TRAFFIC CONTROL AREA, ADDITIONAL TEMPORARY TRAFFIC CONTROL DEVICES AND/OR FLAGGERS SHALL BE PLACED AS NEEDED. ADDITIONAL FLAGGERS SHALL BE LOCATED AT ALL INTERSECTIONS AND COMMERCIAL DRIVEWAYS LOCATED WITHIN OR NEAR THE ACTIVE WORK SPACE. NO WORK ACTIVITY, EQUIPMENT, OR STORAGE OF VEHICLES, OR MATERIAL SHALL OCCUR WITHIN THE BUFFER SPACE AT ANY TIME.
 - CHANNELIZING DEVICE SPACING (CENTER TO CENTER) SHALL NOT EXCEED 20' IN THE ACTIVE WORK SPACE.
 - CHANNELIZING DEVICES SHALL BE PLACED TRANSVERSELY A MINIMUM OF EVERY 800' AS SHOWN WHEN A PAVED SHOULDER HAVING A WIDTH OF 8' OR GREATER IS CLOSED FOR A DISTANCE GREATER THAN 800'.
 - IF THE TRAFFIC IS EXPECTED TO QUEUE PAST THE W20-4 SIGN, A W3-4 SIGN SHOULD BE ADDED HALFWAY BETWEEN THE W20-4 AND W20-1 SIGNS.
 - IF CONDITION WARRANTS, PROTECTIVE VEHICLE WITH APPROPRIATE ROLL AHEAD DISTANCE MAY BE USED IN ADVANCE OF THE WORK AREA. TO USE PROTECTIVE VEHICLE, BUFFER SPACE SHALL BE PROVIDED ACCORDINGLY, AND THE WHEELS SHALL BE ALIGNED WITH THE LANE STRIPING.
 - FLAGGER SIGN (W20-7a) AND ONE LANE ROAD AHEAD SIGN (W20-4) SHALL BE REMOVED, COVERED OR TURNED AWAY FROM ROAD USERS WHEN FLAGGING OPERATIONS ARE NOT OCCURRING.
 - ALL FLAGGERS SHALL USE 24" (MIN.) OCTAGON SHAPED STOP/SLOW PADDLES HAVING 6" STAFF. THE PADDLE IS THE PREFERRED DEVICE, BUT THE FLAG MAY BE USED AT INTERSECTIONS WHERE THE STOP/SLOW PADDLE WOULD OFFER CONTRADICTING INFORMATION TO DRIVERS TRAVELING IN OPPOSITE DIRECTIONS/LEGS OF THE INTERSECTION OR DURING INCIDENT MANAGEMENT SITUATIONS.
 - CENTERLINE CONES MAY BE ADDED TO ENHANCE THE VISIBILITY OF THE FLAGGER STATION. IF CONES ARE USED, PLACE THEM 100 FT. (MINIMUM) FROM FLAGGER.
 - THE NY9-11 SIGN IS RECOMMENDED. WHEN USED, IT SHALL BE PLACED IN ADVANCE OF THE FIRST ADVANCE WARNING SIGN. THE PLACEMENT DISTANCE SHALL BE 1000' FOR POSTED SPEED LIMITS OF 45 MPH OR HIGHER, AND 300' - 500' FOR POSTED SPEED LIMITS OF LESS THAN 45 MPH.

- NOTES ON NIGHTTIME WORK:
- WORK OCCURRING AFTER SUNSET AND BEFORE SUNRISE WILL BE CONSIDERED NIGHTTIME OPERATIONS.
 - ALL SIGNS, STOP / SLOW PADDLES AND RED FLAGS USED TO WARN / ALERT / CONTROL TRAFFIC SHALL BE RETROREFLECTIVE.
 - ALL WORKERS INVOLVED SHALL WEAR PROTECTIVE HELMET AND NIGHTTIME APPAREL IN ACCORDANCE WITH §107-05A. HIGH VISIBILITY APPAREL AT ALL TIMES.
 - VEHICLES OPERATING ON THE PAVEMENT OF A CLOSED ROADWAY OR TRAVEL LANE SHALL DISPLAY ROTATING AMBER BEACONS AT ALL TIMES.
 - LEVEL I ILLUMINATION SHALL BE PROVIDED NEAR THE BEGINNING OF LANE CLOSURE TAPERS AND AT ROAD CLOSURES, INCLUDING THE SETUP AND REMOVAL OF THE CLOSURE TAPERS.
 - LEVEL II ILLUMINATION SHALL BE PROVIDED FOR FLAGGING STATIONS, ASPHALT PAVING, MILLING, AND CONCRETE PLACEMENT AND/OR REMOVAL OPERATIONS, INCLUDING BRIDGE DECKS, 50 FEET AHEAD OF AND 100 FEET BEHIND A PAVING OR MILLING MACHINE.
 - LEVEL III ILLUMINATION SHALL BE PROVIDED FOR PAVEMENT OR STRUCTURAL CRACK FILLING, JOINT REPAIR, PAVEMENT PATCHING AND REPAIRS, INSTALLATION OF SIGNAL EQUIPMENT OR OTHER ELECTRICAL/MECHANICAL, AND OTHER TASKS INVOLVING FINE DETAILS OR INTRICATE PARTS AND EQUIPMENT.
 - ALL LIGHTING SHALL BE DESIGNED, INSTALLED, AND OPERATED TO AVOID GLARE THAT AFFECTS TRAFFIC ON THE ROADWAY OR THAT CAUSES ANNOYANCE OR DISCOMFORT FOR RESIDENCES ADJOINING THE ROADWAY.
 - PRIOR TO THE START OF NIGHTTIME OPERATIONS, A WRITTEN NIGHTTIME OPERATIONS AND LIGHTING PLAN IS REQUIRED FOR APPROVAL.
 - SEE NIGHTTIME SAFETY BULLETIN, HDM §16.5.7, & STANDARD SPECIFICATIONS §619 FOR ADDITIONAL REQUIREMENTS AND CONSIDERATIONS.

REFER TO SHEET 2 OF 2 FOR ALL TABLES

Department of Transportation	
U.S. CUSTOMARY STANDARD SHEET	
WORK ZONE TRAFFIC CONTROL TWO-LANE TWO-WAY ROADWAY LANE CLOSURE WITH FLAGGERS INTERMEDIATE TERM OPERATIONS (SHEET 1 OF 2)	
APPROVED DECEMBER 2, 2021 <i>Robert Limoges</i> ROBERT LIMOGES, P.E. DIRECTOR, OTSM	ISSUED UNDER EI 21-028 619-407

NOT TO SCALE

ROAD TYPE	DISTANCE BETWEEN SIGNS			SIGN LEGEND	
	A (FT.)	B (FT.)	C (FT.)	XX	YY
URBAN (≤ 30 MPH*)	100	100	100	AHEAD	AHEAD
URBAN (35-40 MPH*)	200	200	200	AHEAD	AHEAD
URBAN (≥ 45 MPH*)	350	350	350	1000 FT.	AHEAD
RURAL	500	500	500	1500 FT.	1000 FT.

* PRECONSTRUCTION POSTED SPEED LIMIT

PRECONSTRUCTION POSTED SPEED LIMIT (MPH)	LONGITUDINAL BUFFER SPACE DISTANCE (FT.)/* OF SKIP LINES
45	360/9
50	425/11
55	495/13
65	645/16

WORK ZONE PROVISIONS	MAXIMUM DEVICE SPACING (CENTER TO CENTER)	MUTCD COMPLIANT CHANNELIZING DEVICE								
		DRUMS	STANDARD CONES	TALL CONES	EXTRA TALL CONES	TEMPORARY TUBULAR MARKERS	INTERIM TUBULAR MARKERS	VERTICAL PANELS	OVERSIZED VERTICAL PANELS	TYPE III BARRICADES
SHOULDER/MERGING/ SHIFTING TAPERS	20 FT. *	X							X	
	40 FT.	X							X	
MARKING FOR TRANSVERSE BUMPS ¹	N/A	X ²			X ²				X ²	
TRANSVERSE DEVICE WITHIN CLOSED TRAFFIC LANE AND/OR SHOULDER	800 FT.	X		X	X			X	X	0
REMOVAL OF EXISTING GUIDE RAIL	80 FT.	X		X	X	X		X	X	0
	40 FT.									

NOTES: X= ALLOWED, BLANK = NOT ALLOWED, 0 = OPTIONAL
 1. - A TYPE 1 OBJECT MARKER MAY BE USED IN LIEU OF CHANNELIZING DEVICE.
 2. - CHANNELIZING DEVICES SHALL BE EQUIPPED WITH A FLASHING WARNING LIGHT.

* SEE NOTE 3 ON SHEET 1 OF 2.

SIGN	NON-FREEWAY	FREEWAY
G20-2	36x18	48x24
W3-4	36x36	48x48
W20-1	36x36	48x48
W20-4	36x36	48x48
W20-7a	36x36	48x48
WARNING FLAG	18x18	18x18


*FREEWAY SIZES MAY BE USED ON NON-FREEWAY, IF SPACE CONSTRAINTS DO NOT EXIST.

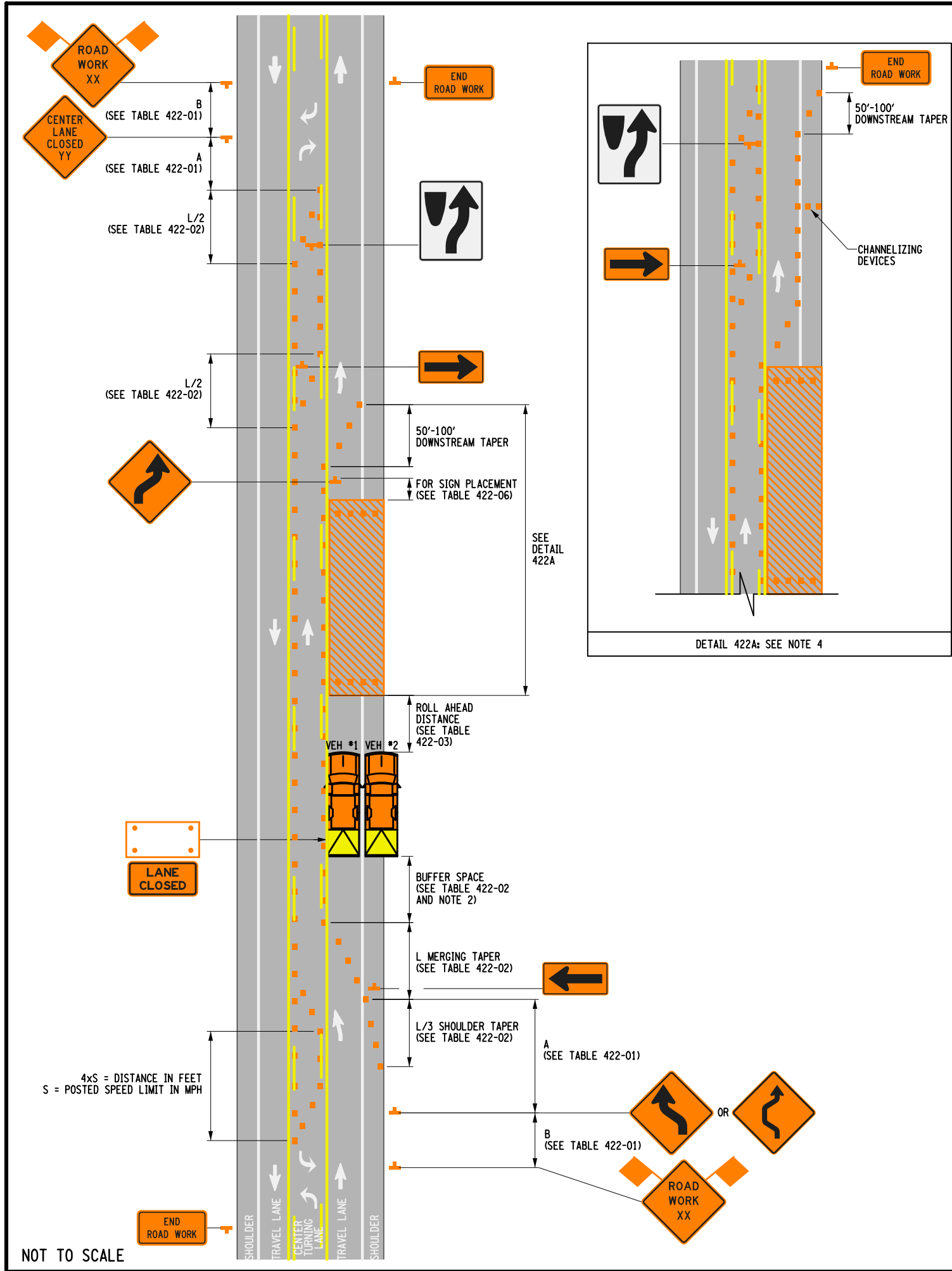
CLOSURE TYPE	ROAD TYPE & SPEED	NON-FREEWAY		
		≥ 45 MPH	35 - 40 MPH	≤ 30 MPH
		EXPOSURE CONDITIONS ¹		
LANE CLOSURE OR ENCROACHMENT	WORKERS ON FOOT OR VEHICLE EXPOSED TO TRAFFIC	P, TMIA	P, TMIA	SEE NOTE 2
	OTHER HAZARDS NO WORKERS EXPOSED	P, TMIA	SEE NOTE 2	SEE NOTE 2
SHOULDER CLOSURE OR ENCROACHMENT	WORKERS ON FOOT OR VEHICLE EXPOSED TO TRAFFIC	P, TMIA	SEE NOTE 2	SEE NOTE 2
	OTHER HAZARDS NO WORKERS EXPOSED	SEE NOTE 2	SEE NOTE 2	SEE NOTE 2

LEGEND
 P: PROTECTIVE VEHICLE REQUIRED FOR EACH CLOSED LANE & EACH CLOSED PAVED SHOULDER 8' OR WIDER. IF THE WORK SPACE MOVES WITHIN THE STATIONARY CLOSURE, THE PROTECTIVE VEHICLE SHALL BE REPOSITIONED ACCORDINGLY
 TMIA: TMIA REQUIRED

NOTES:
 1. THE EXPOSURE CONDITIONS ASSUME THERE IS NO POSITIVE PROTECTION PRESENT
 2. EITHER A PROTECTIVE VEHICLE OR THE STANDARD BUFFER SPACE SHALL BE PROVIDED

PRECONSTRUCTION POSTED SPEED LIMIT (MPH)	ROLL AHEAD DISTANCE (FT.)* OF SKIP LINES FOR VEHICLES	
	STATIONARY OPERATION	
	MIN	MAX
≥ 55	120/3	200/5
45 - 50	80/2	160/4
≤ 40	40/1	120/3

 NEW YORK STATE OF OPPORTUNITY.	Department of Transportation
U.S. CUSTOMARY STANDARD SHEET	
WORK ZONE TRAFFIC CONTROL TWO-LANE TWO-WAY ROADWAY LANE CLOSURE WITH FLAGGERS INTERMEDIATE TERM OPERATION (SHEET 2 OF 2)	
APPROVED APRIL 8, 2022	ISSUED UNDER EI 22-008
<i>Robert Limoges</i> ROBERT LIMOGES, P.E. DIRECTOR, OTSM	619-407



STATE LAW
 LICENSE SUSPENDED AFTER TWO WORK ZONE SPEEDING TICKETS

NYR9-11 (SEE NOTE 7)

CHANNELIZING DEVICE (SEE TABLE 422-06)

G20-2 THIS SIGN SHALL BE LOCATED A MINIMUM DISTANCE OF 80 FT. AND MAXIMUM OF 400 FT. PAST THE END OF THE DOWNSTREAM TAPER

W20-1 ROAD WORK XX

W24-1L (SEE NOTE 6)

W1-4L W1-4R

W1-6L W1-6R

W20-5 CENTER LANE CLOSED YY

R4-7

24000 LB PROTECTIVE VEHICLE WITH TMIA SEE TABLE 422-04

WORK AREA

ARROW PANEL (CAUTION MODE)

LANE CLOSED NYW8-33

NOTES:

- INTERMEDIATE-TERM IS STATIONARY WORK THAT OCCUPIES A LOCATION MORE THAN ONE DAYLIGHT PERIOD UP TO 3 CONSECUTIVE DAYS, OR NIGHTTIME WORK LASTING MORE THAN 1 HOUR.
 - NO WORK ACTIVITY, EQUIPMENT, OR STORAGE OF VEHICLES, OR MATERIAL SHALL OCCUR WITHIN THE BUFFER SPACE AT ANY TIME.
 - CHANNELIZING DEVICE SPACING (CENTER TO CENTER) SHALL NOT EXCEED 20' IN THE ACTIVE WORK SPACE AND THE TURN LANE TAPER SPACE.
 - CHANNELIZING DEVICES SHALL BE PLACED TRANSVERSELY A MINIMUM OF EVERY 800' AS SHOWN WHEN A PAVED SHOULDER HAVING A WIDTH OF 8' OR GREATER IS CLOSED FOR A DISTANCE GREATER THAN 800'.
 - WHERE THE SHIFTED SECTION IS LONGER THAN 600', ONE REVERSE CURVE SIGN SHOULD BE USED TO SHOW THE INITIAL SHIFT AND A SECOND SIGN SHOULD BE USED TO SHOW THE RETURN TO THE NORMAL ALIGNMENT. IF THE TANGENT DISTANCE ALONG THE TEMPORARY DIVERSION IS LESS THAN 600', THE DOUBLE REVERSE CURVE SIGN (W24-1L) SHOULD BE USED INSTEAD OF THE FIRST REVERSE CURVE SIGN (W1-4L) AND THE SECOND REVERSE CURVE SIGN (W1-4R) SHOULD BE OMITTED.
 - THE ENGINEER MAY REQUIRE THE USE OF AN ADVISORY SPEED PLAQUE (W13-1) TO SUPPLEMENT A WARNING SIGN. THE PLAQUE WILL BE USED TO INDICATE AN ADVISORY SPEED FOR THE WORK ZONE CONDITION. (E. NARROW LANES, BUMPS, POOR ROADWAY SURFACE, LOW OR NO SHOULDER, DROP-OFFS, GEOMETRIC CONSTRAINTS, AND/OR POOR SIGHT CONDITIONS).
 - THE NYR9-11 SIGN IS RECOMMENDED. WHEN USED, IT SHALL BE PLACED IN ADVANCE OF THE FIRST ADVANCE WARNING SIGN. THE PLACEMENT DISTANCE SHALL BE 1000' FOR POSTED SPEED LIMITS OF 45 MPH OR HIGHER, AND 300' - 500' FOR POSTED SPEED LIMITS OF LESS THAN 45 MPH.
 - THE PROTECTIVE VEHICLE(S) SHALL MAINTAIN THE APPROPRIATE ROLL AHEAD DISTANCE, BE AN UNOCCUPIED TRUCK POSITIONED PARALLEL TO TRAFFIC, PARKING BRAKE SET, PLACED IN 2ND GEAR (MANUAL TRANSMISSIONS /ENGINE OFF) OR PARK / NEUTRAL (AUTOMATIC TRANSMISSIONS) AND HAVE THE FRONT WHEELS ALIGNED WITH THE LANE STRIPING.
- NOTES ON NIGHTTIME WORK:
- WORK OCCURRING AFTER SUNSET AND BEFORE SUNRISE WILL BE CONSIDERED NIGHTTIME OPERATIONS.
 - ALL SIGNS, STOP/SLOW PADDLES AND RED FLAGS USED TO WARN/ALERT/CONTROL TRAFFIC SHALL BE RETROREFLECTIVE.
 - ALL WORKERS INVOLVED SHALL WEAR PROTECTIVE HELMET AND NIGHTTIME APPAREL IN ACCORDANCE WITH §107-05A. HIGH VISIBILITY APPAREL AT ALL TIMES.
 - VEHICLES OPERATING ON THE PAVEMENT OF A CLOSED ROADWAY OR TRAVEL LANE SHALL DISPLAY ROTATING AMBER BEACONS OR FLASHING LED BEACONS AT ALL TIMES.
 - LEVEL I ILLUMINATION SHALL BE PROVIDED NEAR THE BEGINNING OF LANE CLOSURE TAPERS AND AT ROAD CLOSURES, INCLUDING THE SETUP AND REMOVAL OF THE CLOSURE TAPERS.
 - LEVEL II ILLUMINATION SHALL BE PROVIDED FOR FLAGGING STATIONS, ASPHALT PAVING, MILLING, AND CONCRETE PLACEMENT AND/OR REMOVAL OPERATIONS, INCLUDING BRIDGE DECKS, 50 FEET AHEAD OF AND 100 FEET BEHIND A PAVING OR MILLING MACHINE.
 - LEVEL III ILLUMINATION SHALL BE PROVIDED FOR PAVEMENT OR STRUCTURAL CRACK FILLING, JOINT REPAIR, PAVEMENT PATCHING AND REPAIRS, INSTALLATION OF SIGNAL EQUIPMENT OR OTHER ELECTRICAL/MECHANICAL, AND OTHER TASKS INVOLVING FINE DETAILS OR INTRICATE PARTS AND EQUIPMENT.
 - ALL LIGHTING SHALL BE DESIGNED, INSTALLED, AND OPERATED TO AVOID GLARE THAT AFFECTS TRAFFIC ON THE ROADWAY OR THAT CAUSES ANNOYANCE OR DISCOMFORT FOR RESIDENCES ADJOINING THE ROADWAY.
 - PRIOR TO THE START OF NIGHTTIME OPERATIONS, A WRITTEN NIGHTTIME OPERATIONS AND LIGHTING PLAN IS REQUIRED FOR APPROVAL.
 - SEE NIGHTTIME SAFETY BULLETIN, HDM §16.5.7, & STANDARD SPECIFICATIONS §619 FOR ADDITIONAL REQUIREMENTS AND CONSIDERATIONS.

REFER TO SHEET 2 OF 2 FOR ALL TABLES

<p>Department of Transportation</p>	
<p>U.S. CUSTOMARY STANDARD SHEET</p>	
<p>WORK ZONE TRAFFIC CONTROL TWO-LANE TWO-WAY ROADWAY SINGLE LANE SHIFT WITH TWO-WAY LEFT TURN LANE INTERMEDIATE TERM OPERATION (SHEET 1 OF 2)</p>	
<p>APPROVED DECEMBER 2, 2021</p>	<p>ISSUED UNDER EI 21-028</p>
<p><i>Robert Limoges</i> ROBERT LIMOGES, P.E. DIRECTOR, OTSM</p>	<p>619-422</p>

ROAD TYPE	DISTANCE BETWEEN SIGNS			SIGN LEGEND	
	A (FT.)	B (FT.)	C (FT.)	XX	YY
URBAN (≤ 30 MPH*)	100	100	100	AHEAD	AHEAD
URBAN (35-40 MPH*)	200	200	200	AHEAD	AHEAD
URBAN (≥ 45 MPH*)	350	350	350	1000 FT.	AHEAD
RURAL	500	500	500	1500 FT.	1000 FT.

* PRECONSTRUCTION POSTED SPEED LIMIT

PRECONSTRUCTION POSTED SPEED LIMIT (MPH)	LONGITUDINAL BUFFER SPACE DISTANCE (FT.) / * OF SKIP LINES	TAPER LENGTH: L (FT.) / * OF SKIP LINES / * OF CHANNELIZING DEVICES			SHOULDER TAPER LENGTH: L/3 (FT.) / * OF SKIP LINES / * OF CHANNELIZING DEVICES		
		FOR LANE WIDTH IN FT. (LATERAL SHIFT OF TRAFFIC FLOW PATH)			FOR SHOULDER WIDTH		
		10	11	12	≤ 4 FT.	5 - 7 FT.	≥ 8 FT.
25	155/4	120/3/4	120/3/4	120/3/4	40/1/2	40/1/2	40/1/2
30	200/5	160/4/5	160/4/5	200/5/6	40/1/2	40/1/2	40/1/2
35	250/6	200/5/6	240/6/7	240/6/7	40/1/2	40/1/2	80/2/3
40	305/8	280/7/8	320/8/9	320/8/9	40/1/2	80/2/3	80/2/3
45	360/9	440/11/12	520/13/14	560/14/15	80/2/3	80/2/3	120/3/4
50	425/11	520/13/14	560/14/15	600/15/16	80/2/3	120/3/4	160/4/5
55	495/13	560/14/15	600/15/16	680/17/18	80/2/3	120/3/4	160/4/5

ROLL AHEAD DISTANCE (FT.) / * OF SKIP LINES FOR VEHICLES		
PRECONSTRUCTION POSTED SPEED LIMIT (MPH)	STATIONARY OPERATION	
	MIN	MAX
≥ 55	120/3	200/5
45 - 50	80/2	160/4
≤ 40	40/1	120/3

CLOSURE TYPE	ROAD TYPE & SPEED	NON-FREEWAY		
		≥ 45 MPH	35 - 40 MPH	≤ 30 MPH
LANE CLOSURE OR ENCROACHMENT	WORKERS ON FOOT OR VEHICLE EXPOSED TO TRAFFIC	P, TMIA	P, TMIA	SEE NOTE 2
	OTHER HAZARDS NO WORKERS EXPOSED	P, TMIA	SEE NOTE 2	SEE NOTE 2
SHOULDER CLOSURE OR ENCROACHMENT	WORKERS ON FOOT OR VEHICLE EXPOSED TO TRAFFIC	P, TMIA	SEE NOTE 2	SEE NOTE 2
	OTHER HAZARDS NO WORKERS EXPOSED	SEE NOTE 2	SEE NOTE 2	SEE NOTE 2

LEGEND
P: PROTECTIVE VEHICLE REQUIRED FOR EACH CLOSED LANE & EACH CLOSED PAVED SHOULDER 8' OR WIDER, IF THE WORK SPACE MOVES WITHIN THE STATIONARY CLOSURE, THE PROTECTIVE VEHICLE SHALL BE REPOSITIONED ACCORDINGLY
TMIA: TMIA REQUIRED

NOTES:
1. THE EXPOSURE CONDITIONS ASSUME THERE IS NO POSITIVE PROTECTION PRESENT
2. EITHER A PROTECTIVE VEHICLE OR THE STANDARD BUFFER SPACE SHALL BE PROVIDED

WORK ZONE PROVISIONS	MAXIMUM DEVICE SPACING (CENTER TO CENTER)	MUTCD COMPLIANT CHANNELIZING DEVICE								
		DRUMS	STANDARD CONES	TALL CONES	EXTRA TALL CONES	TEMPORARY TUBULAR MARKERS	INTERIM TUBULAR MARKERS	VERTICAL PANELS	OVERSIZED VERTICAL PANELS	TYPE III BARRICADES
INTERMEDIATE-TERM STATIONARY WORK ZONES INVOLVE WORK THAT OCCUPIES A LOCATION FOR MORE THAN 1 DAYLIGHT PERIOD UP TO 3 CONSECUTIVE DAYS, OR NIGHTTIME WORK THAT OCCUPIES A LOCATION FOR MORE THAN 1 HOUR	20 FT. *	X								X
	40 FT.	X								X
MARKING FOR TRANSVERSE BUMPS ¹	N/A	X ²			X ²					X ²
TRANSVERSE DEVICE WITHIN CLOSED TRAFFIC LANE AND/OR SHOULDER	800 FT.	X		X	X			X	X	0
REMOVAL OF EXISTING GUIDE RAIL	80 FT.	X		X	X	X		X	X	0
	40 FT.	X		X	X	X		X	X	0

NOTES: X= ALLOWED, BLANK = NOT ALLOWED, 0 = OPTIONAL
1. - A TYPE 1 OBJECT MARKER MAY BE USED IN LIEU OF CHANNELIZING DEVICE.
2. - CHANNELIZING DEVICES SHALL BE EQUIPPED WITH A FLASHING WARNING LIGHT.

* SEE NOTE 3 ON SHEET 1 OF 2.

POSTED OR 85 th -PERCENTILE SPEED (MPH)	ADVANCE PLACEMENT DISTANCE (FT.) ¹												
	CONDITION A: SPEED REDUCTION AND LANE CHANGING IN HEAVY TRAFFIC ²	CONDITION B: DECELERATION TO THE LISTED ADVISORY SPEED (MPH) FOR THE CONDITION ⁴											
		0 ³	5	10	15	20	25	30	35	40	45	50	55
20	410	115	110	105	90	75	-	-	-	-	-	-	-
25	515	155	160	150	135	120	95	-	-	-	-	-	-
30	620	200	205	195	185	165	140	110	-	-	-	-	-
35	720	250	255	245	235	215	190	160	130	-	-	-	-
40	825	305	320	310	295	280	255	225	190	150	-	-	-
45	930	360	380	370	360	340	315	285	255	210	165	-	-
50	1030	425	455	450	435	415	390	360	330	285	240	185	-
55	1135	495	530	520	505	490	460	435	400	355	315	255	205

- NOTES:
- THE DISTANCES HAVE NOT BEEN MODIFIED TO ACCOUNT FOR SIGN LEGIBILITY.
 - TYPICAL CONDITIONS ARE LOCATIONS WHERE THE ROAD USER MUST USE EXTRA TIME TO ADJUST SPEED AND CHANGE LANES IN HEAVY TRAFFIC BECAUSE OF A COMPLEX DRIVING SITUATION. TYPICAL SIGNS ARE MERGE AND RIGHT HAND ENDS. THE DISTANCES ARE TAKEN FROM THE 2004 AASHTO POLICY, EXHIBIT 3-3, DECISION SIGHT DISTANCE, AVOIDANCE MANEUVER E.
 - TYPICAL CONDITION IS THE WARNING OF A POTENTIAL STOP SITUATION. TYPICAL SIGNS ARE STOP AHEAD, YIELD AHEAD, SIGNAL AHEAD, AND INTERSECTION WARNING SIGNS. THE DISTANCES ARE TAKEN FROM THE 2004 AASHTO POLICY, STOPPING SIGHT DISTANCE, EXHIBIT 3-1.
 - TYPICAL CONDITIONS ARE LOCATIONS WHERE THE ROAD USER MUST DECREASE SPEED TO MANEUVER THROUGH THE WARNED CONDITION. TYPICAL SIGNS ARE TURN, CURVE, REVERSE TURN, OR REVERSE CURVE. THE DISTANCES ARE DETERMINED BY PROVIDING A 2.5 SECOND PRT AND A VEHICLE DECELERATION RATE OF 10 FT/SECOND.²
 - TYPICAL SIGNS ARE ADDED LANE, ROAD NARROWS, DIVIDED HIGHWAY, AND CONDITION B SIGNS DISPLAYED WITHOUT AN ADVISORY SPEED.

SIGN	NON-FREEWAY	FREEWAY
NYR9-11	24x42	48x84
W1-4L/W1-4R	36x36	48x48
W1-6L/W1-6R	48x24	60x30
W9-3	36x36	48x48
W20-1	36x36	48x48
W20-4	36x36	48x48
W20-5	36x36	48x48
W24-1L	36x36	48x48
R4-7	24x30	36x48
NYW8-33	48x24	48x24
G20-2	36x18	48x24
WARNING FLAG	18x18	18x18

*FREEWAY SIZES MAY BE USED ON NON-FREEWAY, IF SPACE CONSTRAINTS DO NOT EXIST.

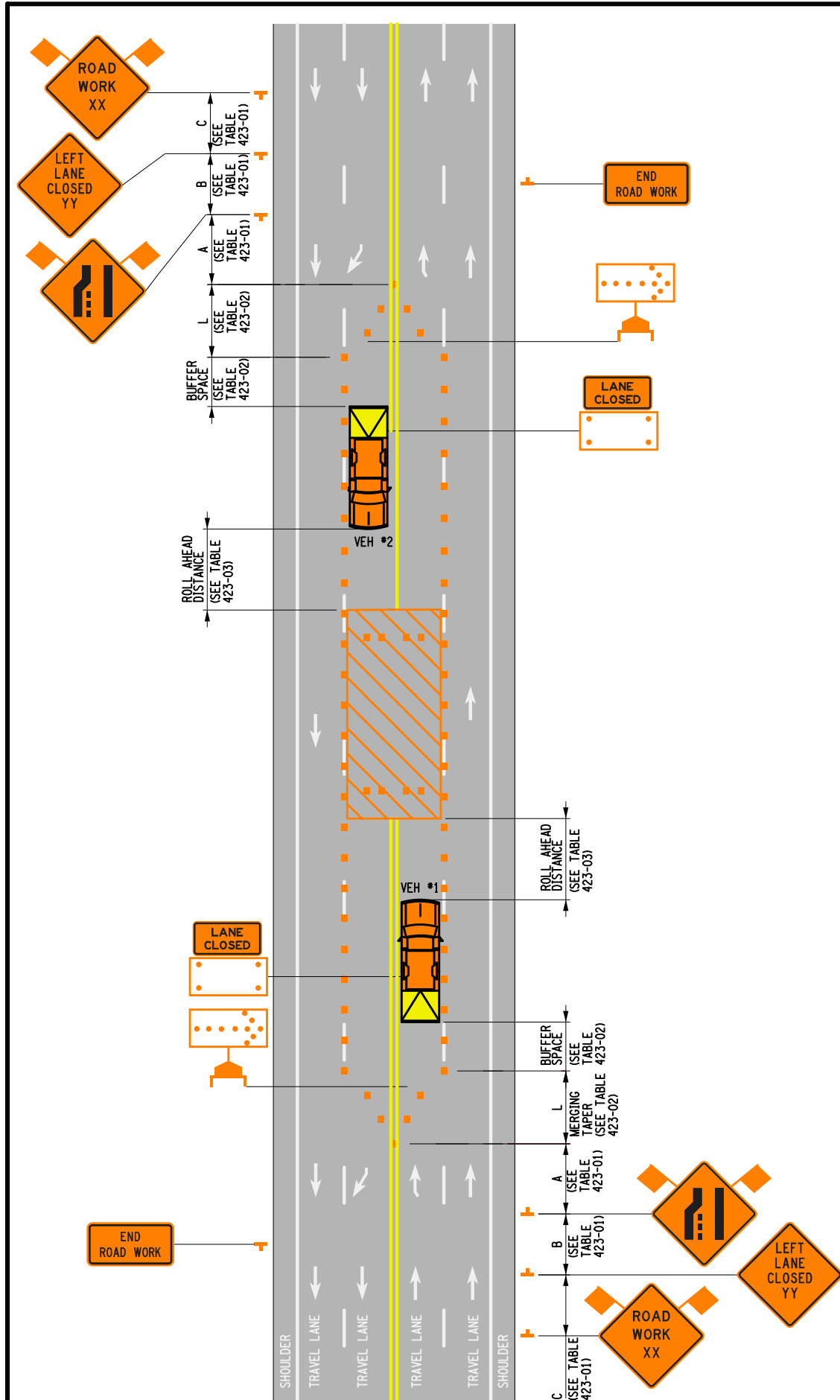
Department of Transportation

U.S. CUSTOMARY STANDARD SHEET

WORK ZONE TRAFFIC CONTROL
TWO-LANE TWO-WAY ROADWAY
SINGLE LANE SHIFT WITH TWO-WAY LEFT
TURN LANE INTERMEDIATE TERM OPERATION
(SHEET 2 OF 2)

APPROVED APRIL 8, 2022
ISSUED UNDER EI 22-008

ROBERT LIMOGES, P.E.
DIRECTOR, OTSM
619-422



NOT TO SCALE

NOTES:

1. INTERMEDIATE-TERM IS STATIONARY WORK THAT OCCUPIES A LOCATION MORE THAN ONE DAYLIGHT PERIOD UP TO 3 CONSECUTIVE DAYS, OR NIGHTTIME WORK LASTING MORE THAN 1 HOUR.
2. NO WORK ACTIVITY, EQUIPMENT, OR STORAGE OF VEHICLES, OR MATERIAL SHALL OCCUR WITHIN THE BUFFER SPACE AT ANY TIME.
3. CHANNELIZING DEVICE SPACING (CENTER TO CENTER) SHALL NOT EXCEED 20' IN THE ACTIVE WORK SPACE.
4. THE PROTECTIVE VEHICLE SHALL BE UNOCCUPIED AND SHALL BE POSITIONED PARALLEL TO TRAFFIC AND HAVE THE WHEELS ALIGNED WITH THE LANE STRIPING. IT MUST BE PLACED IN NEUTRAL WITH THE PARKING BRAKE SET (PARK / 2ND GEAR FOR ENGINE OFF CONDITIONS).
5. FOR LOW SPEED (< 45 MPH), LOW VOLUME URBAN STREETS, THE W20-5 SIGN MAY BE OMITTED AND THE W20-1 SIGN RELOCATED TO THAT LOCATION.
6. THE PROTECTIVE VEHICLE(S) SHALL MAINTAIN THE APPROPRIATE ROLL AHEAD DISTANCE, BE AN UNOCCUPIED TRUCK POSITIONED PARALLEL TO TRAFFIC, PARKING BRAKE SET, PLACED IN 2ND GEAR (MANUAL TRANSMISSIONS /ENGINE OFF) OR PARK / NEUTRAL (AUTOMATIC TRANSMISSIONS) AND HAVE THE FRONT WHEELS ALIGNED WITH THE LANE STRIPING.
7. THE NYR9-11 SIGN IS RECOMMENDED. WHEN USED, IT SHALL BE PLACED IN ADVANCE OF THE FIRST ADVANCE WARNING SIGN. THE PLACEMENT DISTANCE SHALL BE 1000' FOR POSTED SPEED LIMITS OF 45 MPH OR HIGHER, AND 300' - 500' FOR POSTED SPEED LIMITS OF LESS THAN 45 MPH.

NOTES ON NIGHTTIME WORK:

- N1. WORK OCCURRING AFTER SUNSET AND BEFORE SUNRISE WILL BE CONSIDERED NIGHTTIME OPERATIONS.
- N2. ALL SIGNS, STOP / SLOW PADDLES AND RED FLAGS USED TO WARN / ALERT / CONTROL TRAFFIC SHALL BE RETROREFLECTIVE.
- N3. ALL WORKERS INVOLVED SHALL WEAR PROTECTIVE HELMETS AND NIGHTTIME APPAREL IN ACCORDANCE WITH §107-05A. HIGH VISIBILITY APPAREL AT ALL TIMES.
- N4. VEHICLES OPERATING ON THE PAVEMENT OF A CLOSED ROADWAY OR TRAVEL LANE SHALL DISPLAY ROTATING AMBER BEACONS OR FLASHING LED BEACONS AT ALL TIMES.
- N5. LEVEL I ILLUMINATION SHALL BE PROVIDED NEAR THE BEGINNING OF LANE CLOSURE TAPERS AND AT ROAD CLOSURES, INCLUDING THE SETUP AND REMOVAL OF THE CLOSURE TAPERS.
- N6. LEVEL II ILLUMINATION SHALL BE PROVIDED FOR FLAGGING STATIONS, ASPHALT PAVING, MILLING, AND CONCRETE PLACEMENT AND/OR REMOVAL OPERATIONS, INCLUDING BRIDGE DECKS, 50 FEET AHEAD OF AND 100 FEET BEHIND A PAVING OR MILLING MACHINE.
- N7. LEVEL III ILLUMINATION SHALL BE PROVIDED FOR PAVEMENT OR STRUCTURAL CRACK FILLING, JOINT REPAIR, PAVEMENT PATCHING AND REPAIRS, INSTALLATION OF SIGNAL EQUIPMENT OR OTHER ELECTRICAL/MECHANICAL EQUIPMENT, AND OTHER TASKS INVOLVING FINE DETAILS OR INTRICATE PARTS AND EQUIPMENT.
- N8. ALL LIGHTING SHALL BE DESIGNED, INSTALLED, AND OPERATED TO AVOID GLARE THAT AFFECTS TRAFFIC ON THE ROADWAY OR THAT CAUSES ANNOYANCE OR DISCOMFORT FOR RESIDENCES ADJOINING THE ROADWAY.
- N9. PRIOR TO THE START OF NIGHTTIME OPERATIONS, A WRITTEN NIGHTTIME OPERATIONS AND LIGHTING PLAN IS REQUIRED FOR APPROVAL.
- N10. SEE NIGHTTIME SAFETY BULLETIN, HDM §16.5.7, & STANDARD SPECIFICATIONS §619 FOR ADDITIONAL REQUIREMENTS AND CONSIDERATIONS.

	W4-2L		G20-2	THIS SIGN SHALL BE LOCATED A MINIMUM DISTANCE OF 80 FT. AND MAXIMUM OF 400 FT. PAST THE END OF THE DOWNSTREAM TAPER
	W20-1 (SEE NOTE 5)		NYW8-33	
	ARROW PANEL (CAUTION MODE)		W20-5L (SEE NOTE 5)	
	CHANNELIZING DEVICE (SEE TABLE 423-05)		ARROW PANEL	
	24000 LB PROTECTIVE VEHICLE WITH TMIA SEE TABLE 423-04		WORK AREA	

REFER TO SHEET 2 OF 2 FOR ALL TABLES

Department of Transportation	
U.S. CUSTOMARY STANDARD SHEET	
WORK ZONE TRAFFIC CONTROL MULTI-LANE TWO-WAY ROADWAY DOUBLE INTERIOR LANE CLOSURE INTERMEDIATE TERM OPERATION (SHEET 1 OF 2)	
APPROVED DECEMBER 2, 2021	ISSUED UNDER EI 21-028
<i>Robert Limoges</i> ROBERT LIMOGES, P.E. DIRECTOR, OTSM	619-423

ROAD TYPE	DISTANCE BETWEEN SIGNS			SIGN LEGEND	
	A (FT.)	B (FT.)	C (FT.)	XX	YY
URBAN (≤ 30 MPH*)	100	100	100	AHEAD	AHEAD
URBAN (35-40 MPH*)	200	200	200	AHEAD	AHEAD
URBAN (≥ 45 MPH*)	350	350	350	1000 FT.	AHEAD
RURAL	500	500	500	1500 FT.	1000 FT.

* PRECONSTRUCTION POSTED SPEED LIMIT

PRECONSTRUCTION POSTED SPEED LIMIT (MPH)	LONGITUDINAL BUFFER SPACE DISTANCE (FT.) / * OF SKIP LINES	TAPER LENGTH: L (FT.) / * OF SKIP LINES / * OF CHANNELIZING DEVICES			SHOULDER TAPER LENGTH: L/3 (FT.) / * OF SKIP LINES / * OF CHANNELIZING DEVICES		
		FOR LANE WIDTH IN FT. (LATERAL SHIFT OF TRAFFIC FLOW PATH)			FOR SHOULDER WIDTH		
		10	11	12	≤ 4 FT.	5 - 7 FT.	≥ 8 FT.
25	155/4	120/3/4	120/3/4	120/3/4	40/1/2	40/1/2	40/1/2
30	200/5	160/4/5	160/4/5	200/5/6	40/1/2	40/1/2	40/1/2
35	250/6	200/5/6	240/6/7	240/6/7	40/1/2	40/1/2	80/2/3
40	305/8	280/7/8	320/8/9	320/8/9	40/1/2	80/2/3	80/2/3
45	360/9	440/11/12	520/13/14	560/14/15	80/2/3	80/2/3	120/3/4
50	425/11	520/13/14	560/14/15	600/15/16	80/2/3	120/3/4	160/4/5
55	495/13	560/14/15	600/15/16	680/17/18	80/2/3	120/3/4	160/4/5

ROLL AHEAD DISTANCE (FT.) / * OF SKIP LINES FOR VEHICLES		
PRECONSTRUCTION POSTED SPEED LIMIT (MPH)	STATIONARY OPERATION	
	MIN	MAX
≥ 55	120/3	200/5
45 - 50	80/2	160/4
≤ 40	40/1	120/3

CLOSURE TYPE	ROAD TYPE & SPEED	NON-FREEWAY		
		≥ 45 MPH	35 - 40 MPH	≤ 30 MPH
LANE CLOSURE OR ENCROACHMENT	WORKERS ON FOOT OR VEHICLE EXPOSED TO TRAFFIC	P, TMIA	P, TMIA	SEE NOTE 2
	OTHER HAZARDS NO WORKERS EXPOSED	P, TMIA	SEE NOTE 2	SEE NOTE 2

LEGEND
P: PROTECTIVE VEHICLE REQUIRED FOR EACH CLOSED LANE & EACH CLOSED PAVED SHOULDER 8' OR WIDER, IF THE WORK SPACE MOVES WITHIN THE STATIONARY CLOSURE, THE PROTECTIVE VEHICLE SHALL BE REPOSITIONED ACCORDINGLY
TMIA: TMIA REQUIRED

NOTES:
1. THE EXPOSURE CONDITIONS ASSUME THERE IS NO POSITIVE PROTECTION PRESENT
2. EITHER A PROTECTIVE VEHICLE OR THE STANDARD BUFFER SPACE SHALL BE PROVIDED


WORK ZONE PROVISIONS	MAXIMUM DEVICE SPACING (CENTER TO CENTER)	MUTCD COMPLIANT CHANNELIZING DEVICE								
		DRUMS	STANDARD CONES	TALL CONES	EXTRA TALL CONES	TEMPORARY TUBULAR MARKERS	INTERIM TUBULAR MARKERS	VERTICAL PANELS	OVERSIZED VERTICAL PANELS	TYPE III BARRICADES
INTERMEDIATE-TERM STATIONARY WORK ZONES INVOLVE WORK THAT OCCUPIES A LOCATION FOR MORE THAN 1 DAYLIGHT PERIOD UP TO 3 CONSECUTIVE DAYS, OR NIGHTTIME WORK THAT OCCUPIES A LOCATION FOR MORE THAN 1 HOUR										
SHOULDER/MERGING/SHIFTING TAPERS	20 FT. * 40 FT.	X X							X X	
MARKING FOR TRANSVERSE BUMPS ¹	N/A	X ²			X ²				X ²	
TRANSVERSE DEVICE WITHIN CLOSED TRAFFIC LANE AND/OR SHOULDER	800 FT.	X		X	X			X	X	0
REMOVAL OF EXISTING GUIDE RAIL	80 FT. 40 FT.	X X		X	X	X		X	X	0

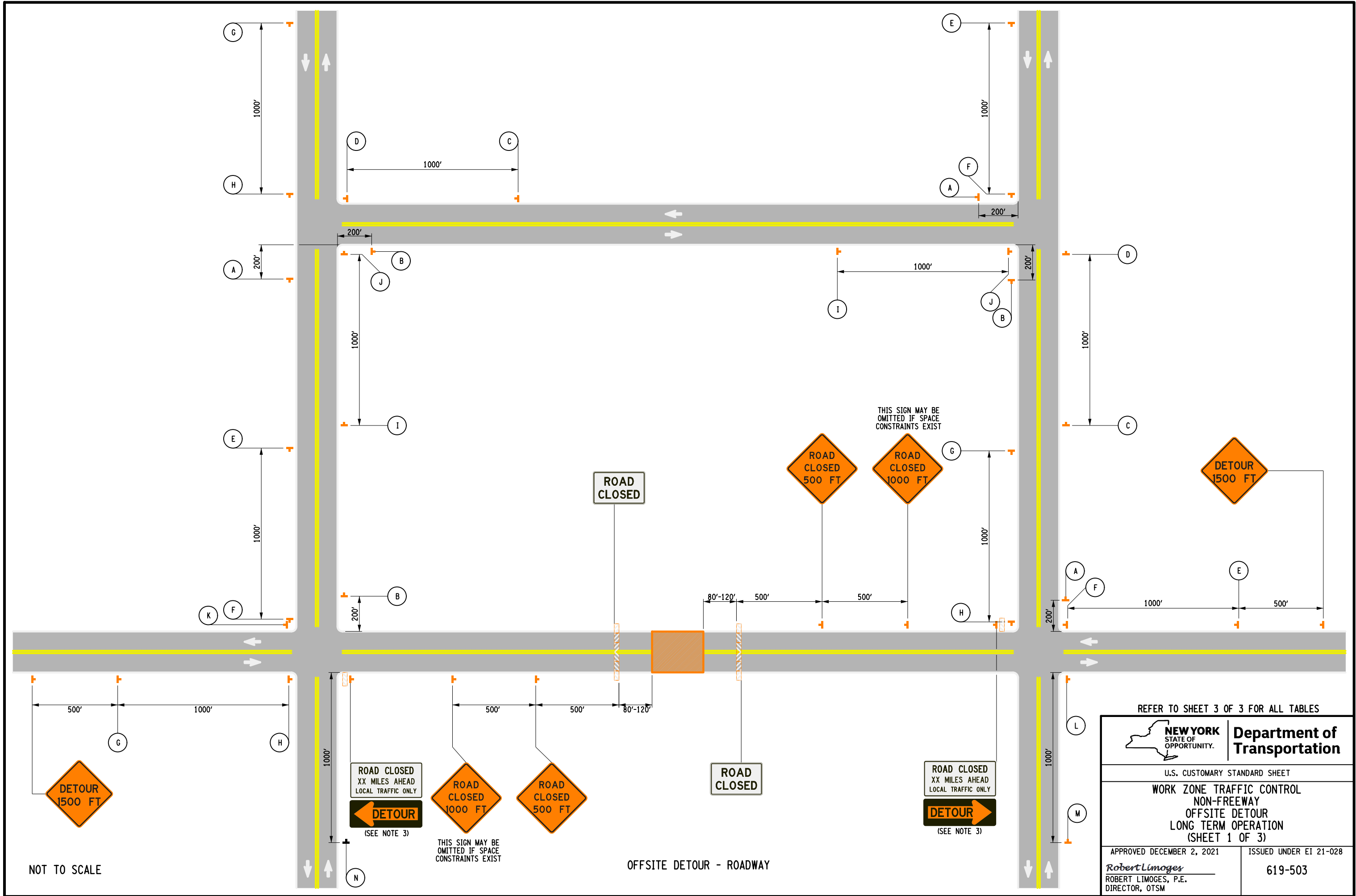
NOTES: X= ALLOWED, BLANK = NOT ALLOWED, 0 = OPTIONAL
1. - A TYPE 1 OBJECT MARKER MAY BE USED IN LIEU OF CHANNELIZING DEVICE.
2. - CHANNELIZING DEVICES SHALL BE EQUIPPED WITH A FLASHING WARNING LIGHT.

* SEE NOTE 3 ON SHEET 1 OF 2.

SIGN	NON-FREEWAY	FREEWAY
W4-2L	36x36	48x48
W20-1	36x36	48x48
W20-5	36x36	48x48
NYW8-33	48x24	48x24
G20-2	36x18	48x24
WARNING FLAG	18x18	18x18

*FREEWAY SIZES MAY BE USED ON NON-FREEWAY, IF SPACE CONSTRAINTS DO NOT EXIST.

 NEW YORK STATE OF OPPORTUNITY.	Department of Transportation
U.S. CUSTOMARY STANDARD SHEET	
WORK ZONE TRAFFIC CONTROL MULTI-LANE TWO-WAY ROADWAY DOUBLE INTERIOR LANE CLOSURE INTERMEDIATE TERM OPERATION (SHEET 2 OF 2)	
APPROVED APRIL 8, 2022	ISSUED UNDER EI 22-008
<i>Robert Limoges</i> ROBERT LIMOGES, P.E. DIRECTOR, OTSM	619-423



NOT TO SCALE

OFFSITE DETOUR - ROADWAY

REFER TO SHEET 3 OF 3 FOR ALL TABLES

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U.S. CUSTOMARY STANDARD SHEET

**WORK ZONE TRAFFIC CONTROL
NON-FREEWAY
OFFSITE DETOUR
LONG TERM OPERATION
(SHEET 1 OF 3)**

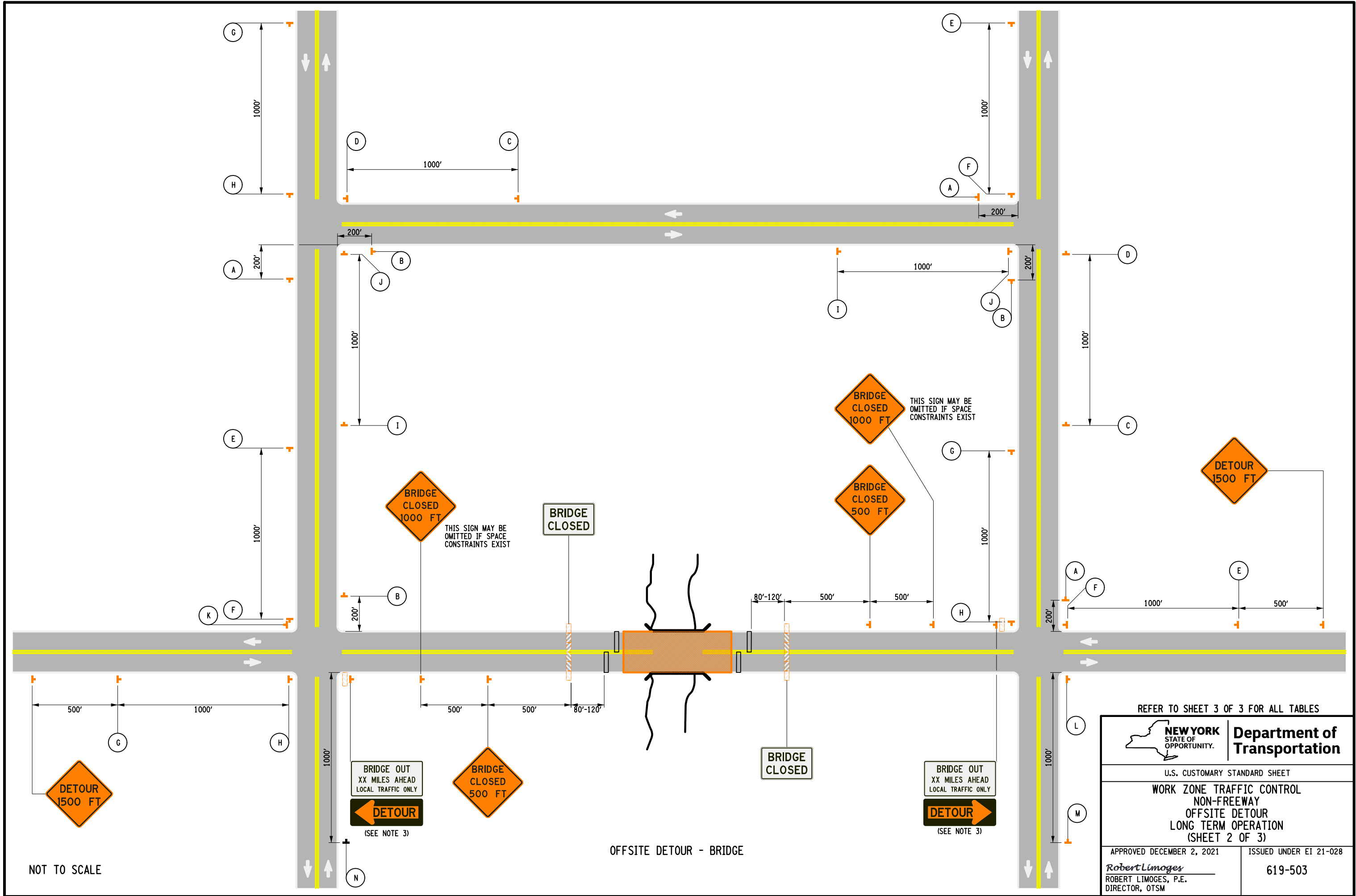
APPROVED DECEMBER 2, 2021 ISSUED UNDER EI 21-028

Robert Limoges
ROBERT LIMOGES, P.E.
DIRECTOR, OTSM

619-503

USC SEPTEMBER 01, 2022

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USER = wcheron



NOT TO SCALE

OFFSITE DETOUR - BRIDGE

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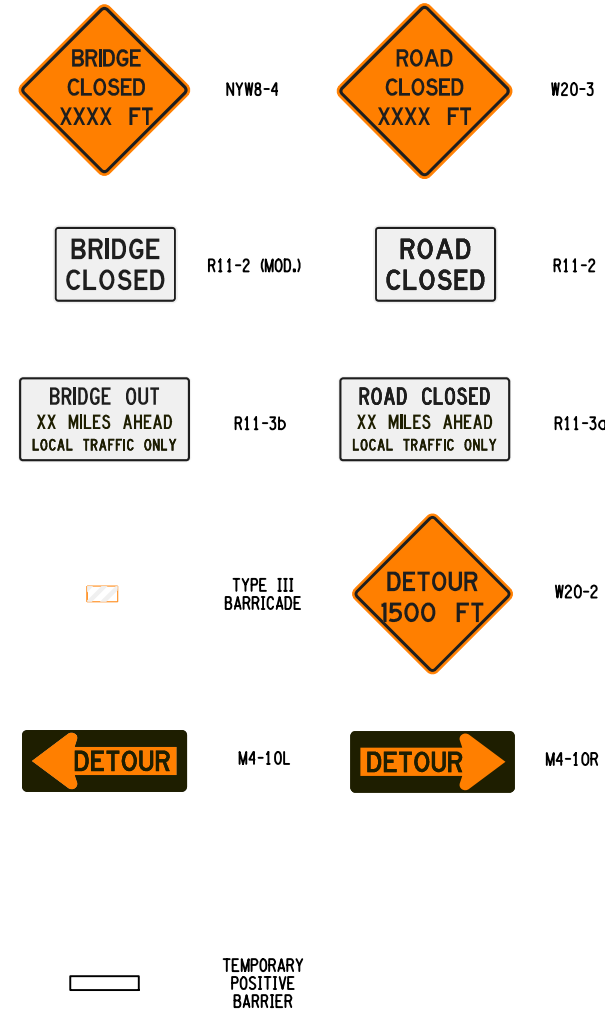
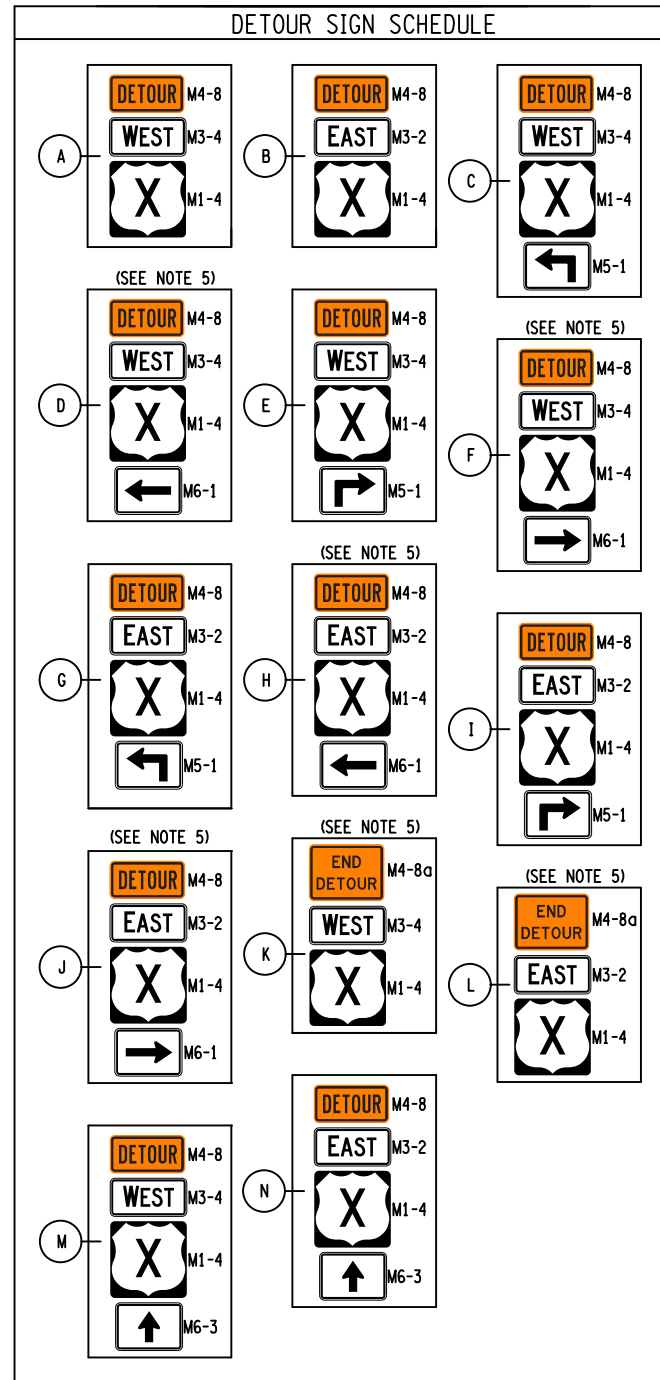
U.S. CUSTOMARY STANDARD SHEET

**WORK ZONE TRAFFIC CONTROL
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ROBERT LIMOGES, P.E.
DIRECTOR, OTSM

619-503



NOTES:

1. LONG-TERM IS STATIONARY WORK THAT OCCUPIES A LOCATION MORE THAN 3 CONSECUTIVE DAYS. THIS SETUP MAY ALSO BE USED FOR A SHORT TERM OFFSITE DETOUR IN WHICH CASE NOTES N1 TO N9 WILL NOT APPLY.
 2. CONFIRMATION SIGNING (A) AND (B) SHALL BE REPEATED A MAXIMUM DISTANCE OF EVERY 1/2 MILE.
 3. IF THE ROAD IS OPENED FOR SOME DISTANCE BEYOND THE INTERSECTION AND/OR THERE ARE SIGNIFICANT ORIGIN/DESTINATION POINTS BEYOND THE INTERSECTION, THE R11-3a/R11-3b ROAD CLOSED SIGN AND THE M4-10L/R) SIGN ON TYPE III BARRICADES MAY BE LOCATED AT THE EDGE OF THE TRAVELED WAY.
 4. ANY EXISTING SIGN, INCLUDING OVERHEAD SIGNS, WHICH CONFLICT WITH THE TEMPORARY TRAFFIC CONTROL SIGN LAYOUT SHALL BE COVERED, REMOVED, STORED OR RESET ABOVE. BLANK COVERS USED TO COVER PORTIONS OF EXISTING SIGNS SHALL BE OF A COLOR AND REFLECTORIZED MATERIAL MATCHING THAT OF THE SIGN BEING PARTIALLY COVERED. THE CONTRACTOR SHALL BE LIABLE FOR ANY DAMAGE TO SIGNS CAUSED BY THE METHODS USED TO TEMPORARILY REMOVE, REPLACE, RELOCATE OR COVER SIGN PANELS OR SIGN TEXT, AT NO ADDITIONAL COST TO THE STATE. ALL APPROPRIATE EXISTING SIGNS SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AND/OR LOCATION UNLESS OTHERWISE REPLACED IN THE CONTACT DOCUMENTS.
 5. SIGN GROUPINGS (D), (E), (H), (J), (K), AND (L) SHALL ALWAYS BE POSTED A MAXIMUM OF 50' FROM AN INTERSECTION.
 6. FOR LOCAL AND/OR COUNTY ROAD DETOUR SIGNAGE DETAILS REFER TO MUTCD WITH NEW YORK STATE SUPPLEMENT FOR GUIDANCE.
- NOTES ON NIGHTTIME WORK:**
- N1. WORK OCCURRING AFTER SUNSET AND BEFORE SUNRISE WILL BE CONSIDERED NIGHTTIME OPERATIONS.
 - N2. ALL SIGNS, STOP/SLOW PADDLES AND RED FLAGS USED TO WARN/ALERT/CONTROL TRAFFIC SHALL BE RETROREFLECTIVE.
 - N3. ALL WORKERS INVOLVED SHALL WEAR PROTECTIVE HELMET AND NIGHTTIME APPAREL IN ACCORDANCE WITH §107-05A. HIGH VISIBILITY APPAREL AT ALL TIMES.
 - N4. VEHICLES OPERATING ON THE PAVEMENT OF A CLOSED ROADWAY OR TRAVEL LANE SHALL DISPLAY ROTATING AMBER BEACONS OR FLASHING LED BEACONS AT ALL TIMES.
 - N5. LEVEL I ILLUMINATION SHALL BE PROVIDED NEAR THE BEGINNING OF LANE CLOSURE TAPERS AND AT ROAD CLOSURES, INCLUDING THE SETUP AND REMOVAL OF THE CLOSURE TAPERS.
 - N6. LEVEL II ILLUMINATION SHALL BE PROVIDED FOR FLAGGING STATIONS, ASPHALT PAVING, MILLING, AND CONCRETE PLACEMENT AND/OR REMOVAL OPERATIONS, INCLUDING BRIDGE DECKS, 50 FEET AHEAD OF AND 100 FEET BEHIND A PAVING OR MILLING MACHINE.
 - N7. LEVEL III ILLUMINATION SHALL BE PROVIDED FOR PAVEMENT OR STRUCTURAL CRACK FILLING, JOINT REPAIR, PAVEMENT PATCHING AND REPAIRS, INSTALLATION OF SIGNAL EQUIPMENT OR OTHER ELECTRICAL/MECHANICAL, AND OTHER TASKS INVOLVING FINE DETAILS OR INTRICATE PARTS AND EQUIPMENT.
 - N8. ALL LIGHTING SHALL BE DESIGNED, INSTALLED, AND OPERATED TO AVOID GLARE THAT AFFECTS TRAFFIC ON THE ROADWAY OR THAT CAUSES ANNOYANCE OR DISCOMFORT FOR RESIDENCES ADJOINING THE ROADWAY.
 - N9. PRIOR TO THE START OF NIGHTTIME OPERATIONS, A WRITTEN NIGHTTIME OPERATIONS AND LIGHTING PLAN IS REQUIRED FOR APPROVAL.
 - N10. SEE NIGHTTIME SAFETY BULLETIN, HDM §16.5.7, & STANDARD SPECIFICATIONS §619 FOR ADDITIONAL REQUIREMENTS AND CONSIDERATIONS.

TABLE 519-01: REQUIRED SIGN SIZES*

SIGN	NON-FREEWAY	FREEWAY
NYW8-4	36x36	48x48
M4-10L/M4-10R	48x18	48x18
R11-2	48x30	48x30
R11-3a**/R11-3b**	60x30	60x30
W20-2	36x36	48x48
W20-3	36x36	48x48

*FREEWAY SIZES MAY BE USED ON NON-FREEWAY, IF SPACE CONSTRAINTS DO NOT EXIST.
**SIGNS NOT FOR FREEWAY USE.

NEW YORK
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OPPORTUNITY.

**Department of
Transportation**

U.S. CUSTOMARY STANDARD SHEET

WORK ZONE TRAFFIC CONTROL
NON-FREEWAY
OFFSITE DETOUR
LONG TERM OPERATION
(SHEET 3 OF 3)

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