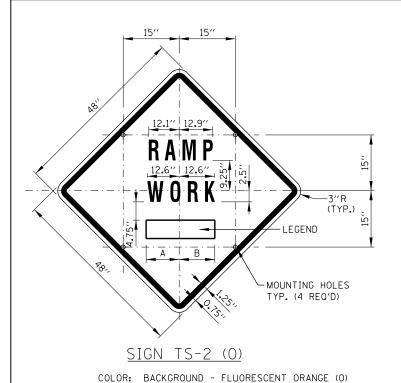
# Illinois Tollway Standard Drawing Revisions

Section E	Maintenance of Traffic								
	Standard	Modification Summary	Effective: 03-01-2023						
	E5-10	Temporary Gore Details							
		Changed 701.05(D)(5) to 701.05(a)(5),							
	Sheet 1	Revised skip dash to 9' skip - 3' dash							
		Revised ramp minimum width note.							
		Changed 701.05(D)(5) to 701.05(a)(5)							
	Sheet 2	Revised skip dash to 9' skip - 3' dash							
		Revised ramp minimum width note.							
	E6-07	Contractor Access to Work Area							
	Sheet 1	Changed 701.05(d)(5) to 701.05(a)(5)	·						
	Sheet 2	Changed 701.05(d)(5) to 701.05(a)(5)	·						

New Sheet

Retired Standard





BORDER AND SYMBOL - BLACK

SIZE: 48"×48"

LETTERING: 7" FEDERAL SERIES D

MOUNTING HOLES:  $\frac{1}{16}$ " DIA., 4 HOLES SPACED AS SHOWN

SIGN NO.	LEGEND	А	В
TS-2A TS-2B TS-2C TS-2D TS-2E TS-2F	AHEAD 500 FT 1000 FT 1500 FT 1/2 MILE 1 MILE	15.50" 14.25" 14.88"	15.50" 15.13" 15.75"

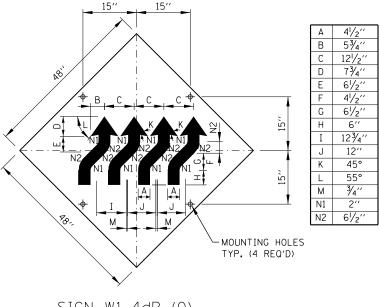
## A 41/2' B 5¾" C 121/2" D 73/4" E 61/2" $4^{1/2}$ 61/2′ I 123/4' J 12'' K 45° L 55° M 3/4" N1 N2 61/2" MOUNTING HOLES TYP. (4 REQ'D)

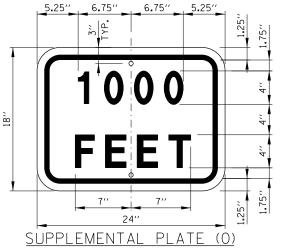
# SIGN W1-4dR (0)

COLOR: BACKGROUND-FLUORESCENT ORANGE (0) TYPE A REFLECTIVE SHEETING PER STANDARD SPECIFICATIONS (\* A) BORDER AND LETTERS-BLACK

SIZE: 48"×48"

MOUNTING HOLES:  $\frac{7}{16}$ " DIA., 4 HOLES SPACED AS SHOWN.



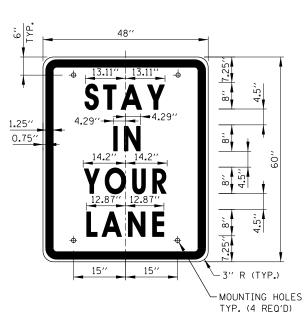


COLOR: BACKGROUND - FLUORESCENT ORANGE (O) BORDER AND LETTERS - BLACK

SIZE: 24"x18"

LETTERING: 4" FEDERAL SERIES D

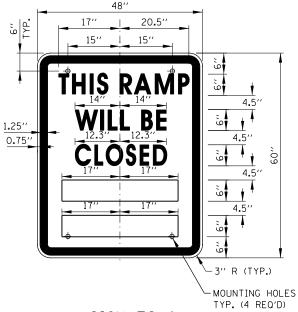
MOUNTING HOLES: 1/6" DIA., 2 HOLES SPACED AS SHOWN



## SIGN TS-3

COLOR: BACKGROUND - WHITE (REFLECTORIZED) ( \*A) BORDER AND LETTERS - BLACK

LETTERING: LEGEND - 8" FEDERAL SERIES D MOUNTING HOLES:  $\frac{7}{6}$ " DIA., 4 HOLES, SPACED AS SHOWN



#### SIGN TS-4

COLOR: BACKGROUND - WHITE (REFLECTORIZED)( \* A)

BORDER AND LETTERS - BLACK

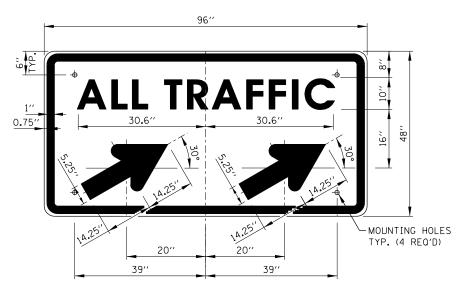
SIZE: 48"x60"

LETTERING: LEGEND - 6" FEDERAL SERIES C

MOUNTING HOLES: 1/6" DIA., 4 HOLES, SPACED AS SHOWN

#### RAMP CLOSURE ADVANCE INFORMATION SIGN

THE VARIABLE MESSAGE WITH DATES FOR THE BOTTOM TWO LINES SHALL BE DETERMINED BY THE ENGINEER AND GIVEN TO THE CONTRACTOR BEFORE THE REQUIRED FIELD ERECTION DATE.



#### SIGN TS-5a & TS-5b

COLOR: BACKGROUND - WHITE (REFLECTORIZED)( \* A) BORDER AND LETTERS - BLACK

ARROW - BLACK

SIZE: 96"x48"

LETTERING: 10" FEDERAL SERIES D

MOUNTING HOLES:  $\frac{7}{16}$ " DIA., 4 HOLES, SPACED AS SHOWN NOTE: SIGN TS-5a IS SHOWN, SUBSTITUTE

LEGEND "#" FOR "##" FOR SIGN TS-5b

#### NOTES:

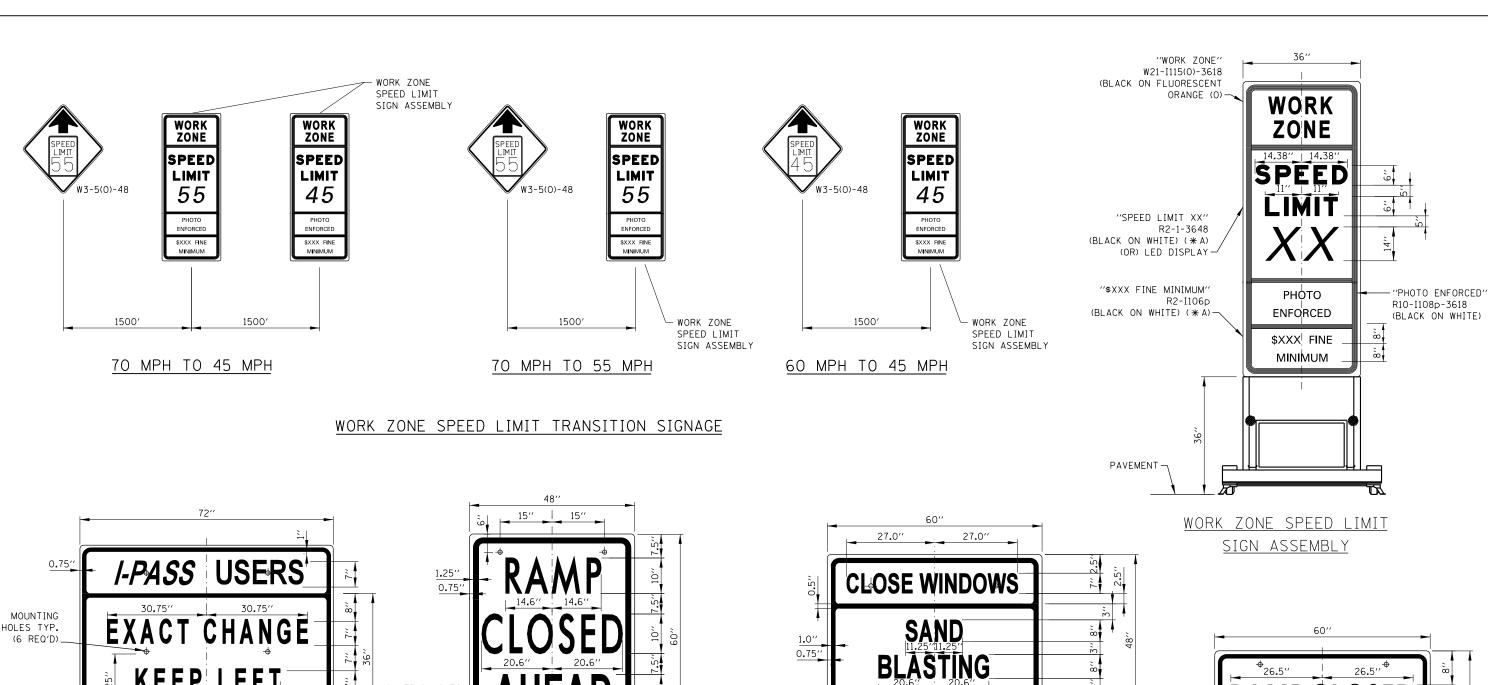
- ALL LETTERING IS DESIGNATED BY SIZE AND SERIES IN ACCORDANCE WITH THE LATEST EDITION OF "STANDARD ALPHABETS FOR HIGHWAY SIGNS AND PAVEMENT MARKINGS" AS PUBLISHED BY THE U.S. DEPARTMENT OF TRANSPORTATION. LETTERING SPACING SHALL BE IN ACCORDANCE WITH THIS GUIDE EXCEPT WHERE NOTED.
- 2. SYMBOLS AND ARROWS SHALL CONFORM TO THE DETAILS SHOWN IN THE LATEST EDITION OF "STANDARD HIGHWAY SIGNS" AS PUBLISHED BY THE U.S. DEPARTMENT OF TRANSPORTATION.
- SEE THE CONTRACT REQUIREMENTS FOR ADDITIONAL NOTES AND SPECIFICATIONS. FLUORESCENT ORANGE REFLECTIVE SHEETING PER THE STANDARD SPECIFICATIONS.
  - (\*A) REFLECTIVE SHEETING PER THE STANDARD SPECIFICATIONS.
- 4. DIMENSIONS INDICATED THUS L ARE BASED ON A REDUCTION IN STANDARD LETTERING SPACING AS SHOWN BELOW:
  - L1 SPACING REDUCED BY 25%
  - L2 SPACING REDUCED BY 40%
  - **L3 SPACING REDUCED BY 50%**

SHEET 1 OF 2



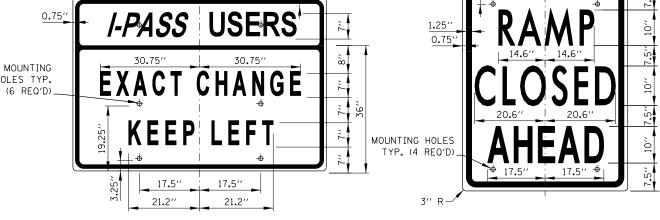
DATE	REVISIONS	
3-01-2019	REMOVED STANDARD IDOT SIGNS,	CONSTRUCTION SIGNS
	REVISED WZSL ASSEMBLY, ADDED	
	WZSL TRANSITION	
3-31-2017	REVISED END WZSL SIGN COLOR	
3-11-2015	REVISED NOTES	STANDARD E1-07
		STANDAND ET-OT





MOUNTING HOLES

TYP. (4 REQ'D).



SIGN TS-9

COLOR: BACKGROUND - WHITE (REFLECTORIZED) (\* A) BORDER AND LETTERS - BLACK SIZE: 48"x60"

LETTERING: 10" FEDERAL SERIES C
MOUNTING HOLES: 76" DIA., 4 HOLES SPACED AS SHOWN

COLOR: BACKGROUND - FLUORESCENT ORANGE (0) BORDER AND LETTERS - BLACK SIZE: 60"×48"

AHEAD

14.0" 14.0"

SIGN TS-10 (0)

28.0" \_\_\_ 28.0"

LETTERING: 8" FEDERAL SERIES C, 7" FEDERAL SERIES B MOUNTING HOLES: 76" DIA., 4 HOLES SPACED AS SHOWN

SIGN TS-6

COLOR: BACKGROUND - WHITE (REFLECTORIZED) (\* A)

BORDER AND LETTERS - BLACK SIZE: 60"x24"

LETTERING: 8" FEDERAL SERIES C MOUNTING HOLES: 1/16" DIA., 4 HOLES SPACED AS SHOWN

SHEET 2 OF 2



Paul Koracs 05/01/2009

SIZE: 72"×36"

LETTERING: 7" FEDERAL SERIES C

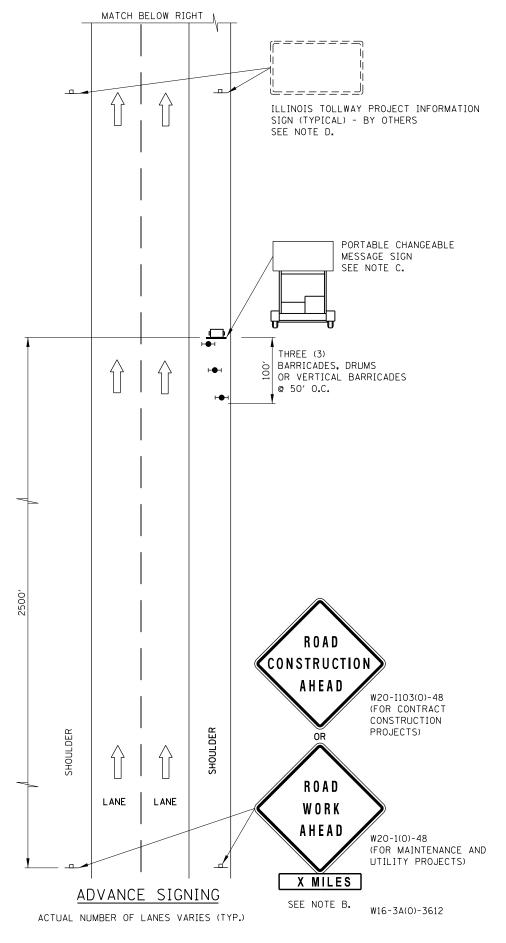
MOUNTING HOLES: 1/16" DIA., 4 HOLES SPACED AS SHOWN

SIGN TS-7

COLOR: BACKGROUND - WHITE (REFLECTORIZED) (\* A)

BORDER AND LETTERS - BLACK

SEE SHEET 1 OF THIS SERIES FOR NOTES.



### ADVANCE SIGNING NOTES:

- THE ADVANCE SIGNING SHOWN ON THIS STANDARD SHALL APPLY ANY TIME THE CONTRACTOR CLOSES ONE OR MORE LANES, OR IS REQUIRED TO SHIFT THE LANE ALIGNMENT. THE "ROAD WORK AHEAD" OR "ROAD CONSTRUCTION AHEAD" SIGNS, WORK ZONE PUBLIC INFORMATION SIGNS AND PORTABLE CHANGEABLE MESSAGE ARE STATIONARY.
- B. THE ROAD CONSTRUCTION AHEAD SIGN (W20-1A, WITH W16-3a SUPPLEMENTAL PLATE) OR ROAD WORK AHEAD SIGN (W20-1, WITH W16-3A SUPPLEMENTAL PLATE) SHALL BE LOCATED UP TO 5 MILES IN ADVANCE OF THE PROJECT LIMITS, WITH THE LOCATION BEING DETERMINED BY THE ENGINEER.
- C. THE PORTABLE CHANGEABLE MESSAGE SIGN SHALL BE USED TO DISPLAY THE STATUS OF LANE WITHIN THE CONTRACT LIMITS. THE PRIMARY MESSAGES SHALL BE: "RIGHT LANE(S) CLOSED" / "x MILES AHEAD", "LEFT LANE(S) CLOSED" / "x MILES AHEAD", "LANE(S) SHIFT" / "x MILES AHEAD", "ALL LANES OPEN". THE PORTABLE CHANGEABLE MESSAGE SIGN MAY BE MOVED TO THE MEDIAN SHOULDER WHEN THE LANE CLOSURES ARE ON THE LEFT, PROVIDED THE EXISTING SHOULDER WIDTH IS ADEQUATE.
- THE ILLINOIS TOLLWAY WILL FURNISH AND INSTALL STATIC PROJECT INFORMATION SIGNS IN ADVANCE, THROUGH AND AT THE END OF THE WORK ZONE. THESE SIGNS WILL BE INSTALLED ALONG THE OUTSIDE SHOULDER WITH THE ADVANCE SIGNS LOCATED BEYOND THE PORTABLE CHANGEABLE MESSAGE SIGN. THE ENGINEER AND CONTRACTOR SHALL COORDINATE WITH THE ILLINOIS TOLLWAY REGARDING THE LOCATION OF THESE SIGNS AND NOTIFY THE ILLINOIS TOLLWAY OF ANY DAMAGE TO THE SIGNS OR SUPPORTS.

## LEGEND

ARROW BOARD



WORK AREA

Þ SIGN

- DIRECTION INDICATOR BARRICADE WITH SEQUENTIAL FLASHING WARNING LIGHT
- TYPE II BARRICADE, DRUM, OR VERTICAL BARRICADE WITH LIGHT IF REQUIRED. SEE ARTICLE 701.05(a)(5)
- FLAGGER WITH TRAFFIC CONTROL SIGN

♣ WORKER

X LANE CLOSED

Let CHECK BARRICADE

TRUCK MOUNTED ATTENUATOR

SHEET 1 OF 3



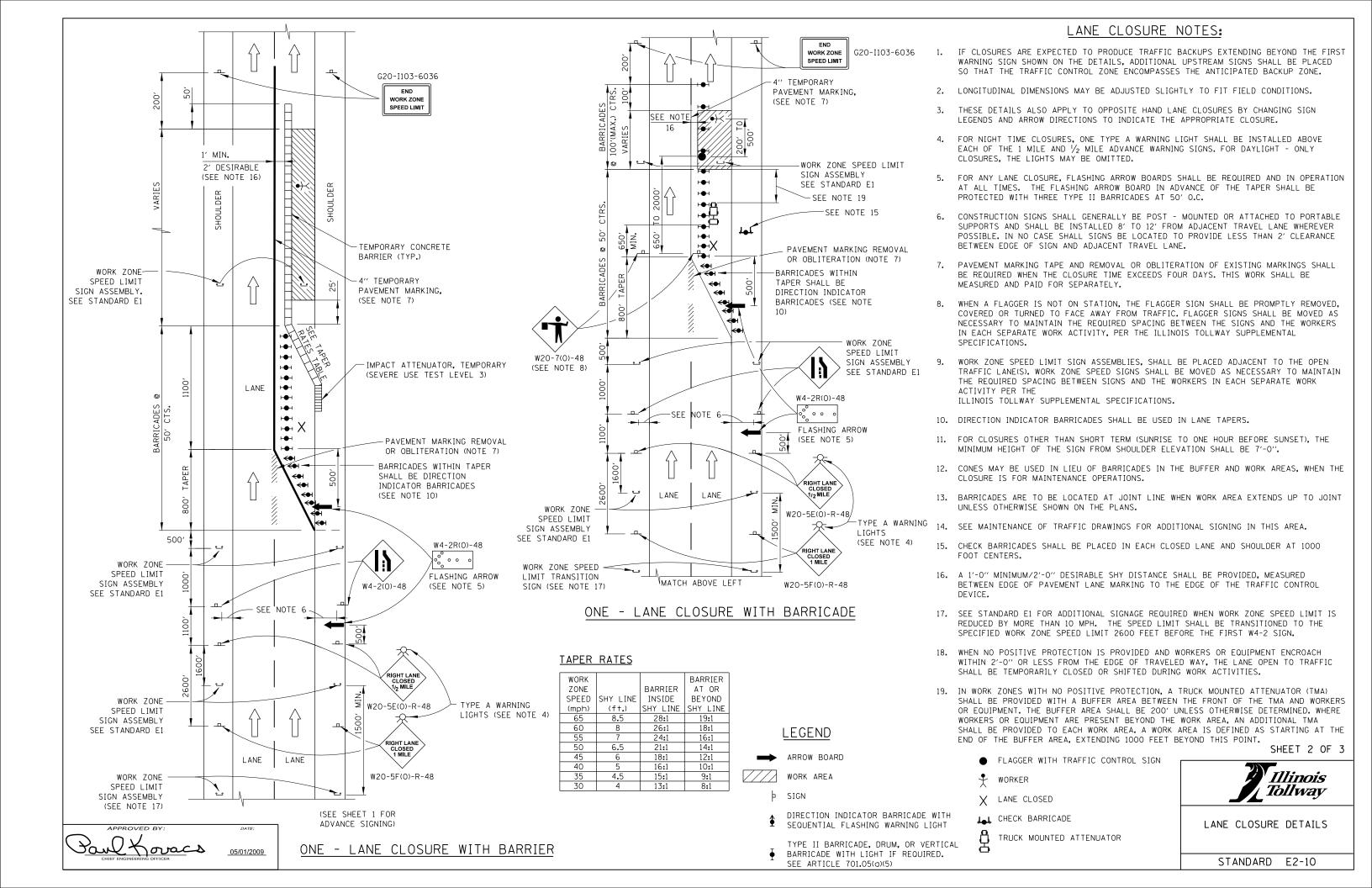
DATE REVISIONS LANE CLOSURE DETAILS 3-01-2021 DELETED WORK ZONE PUBLIC INFORMATION SIGN.

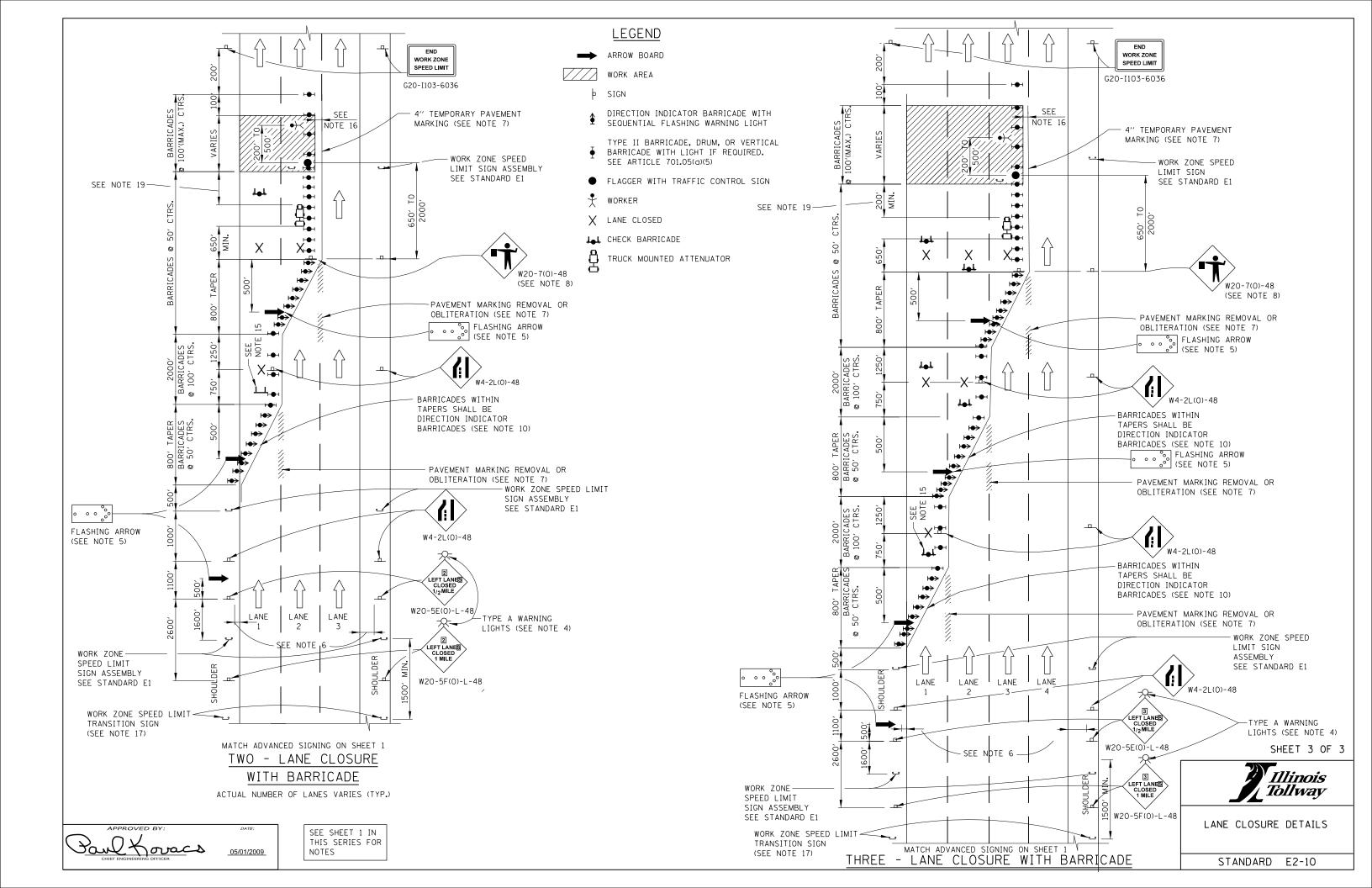
3-01-2020 CLARIFIED TMA REQUIREMENTS,

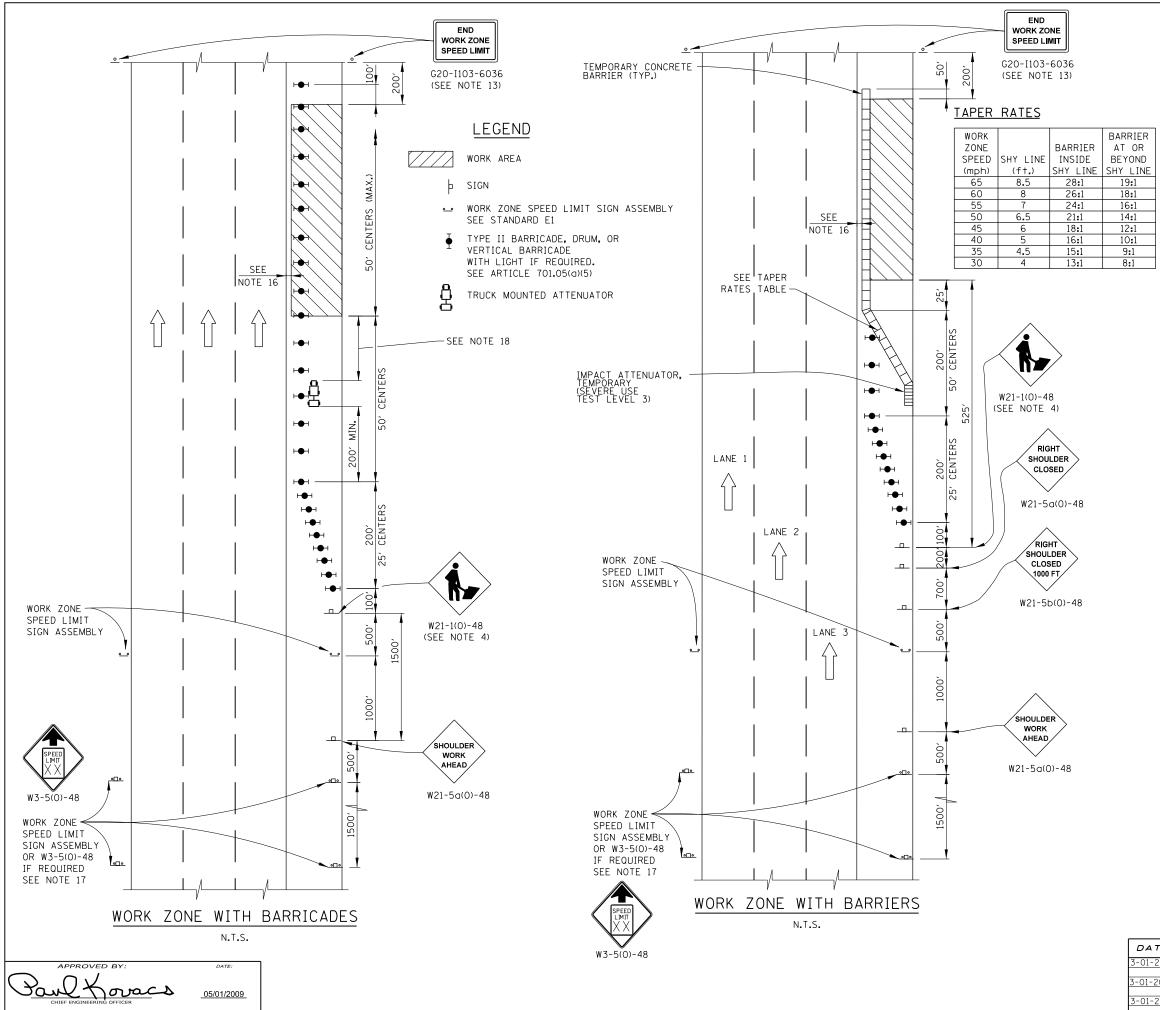
UPDATED BARRICADE LIGHT CALL-OUTS

3-01-2019 REARRANGED DETAILS, REVISED NOTE STANDARD E2-10 17, ADDED NOTES 18 & 19, ADDED TMA

Paul Koracs 05/01/2009







### GENERAL NOTES:

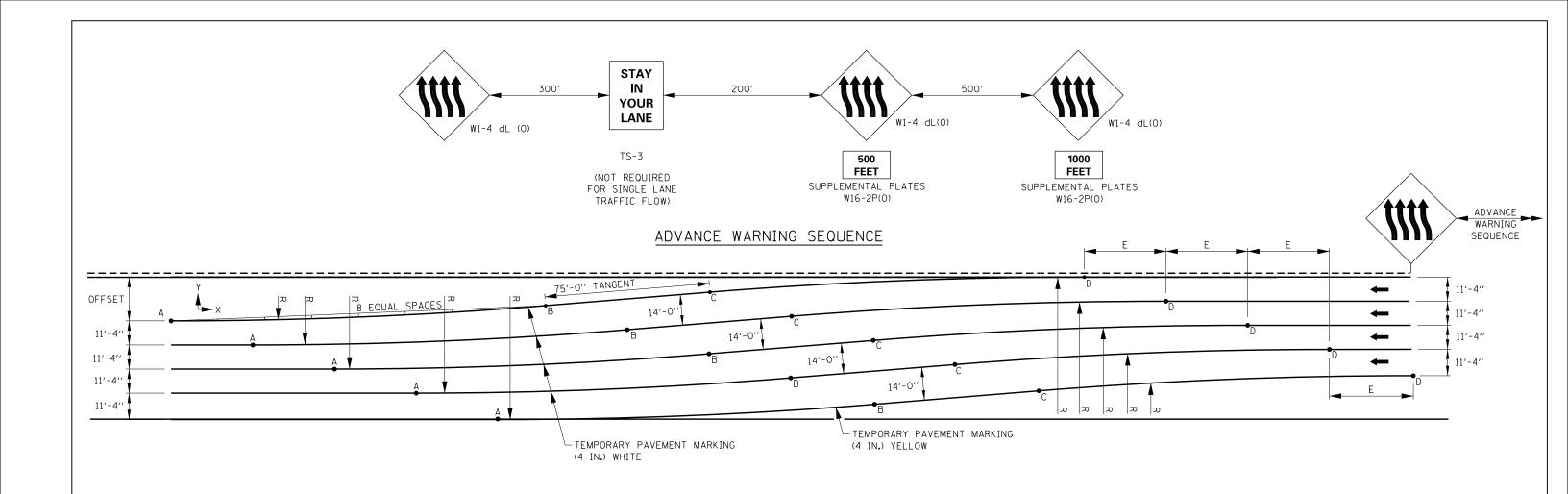
- 1. THE SHOULDER SHALL BE CLOSED WHEN A WORK ACTIVITY REQUIRING 15 OR MORE MINUTES IS PERFORMED AT A DISTANCE WHICH IS LESS THAN 15 FEET BUT NO CLOSER THAN 2 FEET FROM THE EDGE OF PAVEMENT.
- THE ADJACENT EXTERIOR LANE SHALL BE CLOSED WHEN WORK IS PERFORMED WITHIN 2 FEET FROM THE EDGE OF PAVEMENT.
- THE CHANNELIZING DEVICES WHICH SEPARATE THE WORK SPACE FROM THE ADJACENT TRAVEL LANE SHALL BE SPACED AT 25' FOR (200 FEET) AND AT A MAXIMUM OF 50' FOR ALL ADDITIONAL DEVICES.
- . WHEN THE WORK SITE IS UNATTENDED, SUBSTITUTE "SHOULDER WORK AHEAD" SIGN.
- WORKER SIGNS OR SHOULDER WORK SIGNS AND CHANNELIZATION DEVICES ARE PLACED ONLY ON THE SIDE OF THE ROADWAY ON WHICH THE ACTIVITY IS PERFORMED.
- . FOR SHOULDER CLOSURE EXTENDING OVERNIGHT, BARRICADE TYPE II SHALL BE USED. SEE ARTICLE 701.05(a)(5) FOR BARRICADE LIGHT REQUIREMENTS
- 7. FOR SHORT TERM CLOSURE (SUNRISE TO ONE HOUR BEFORE SUNSET) NOT EXTENDING INTO DARKNESS, CONES MAY BE USED.
- . ONE WORK ZONE SPEED LIMIT SIGN ASSEMBLY SHALL BE PLACED AT A DISTANCE OF 500' TO 2,500' MAXIMUM IN ADVANCE OF WORKERS THROUGHOUT THE SHOULDER CLOSURE. MOVING OPERATIONS MAY REQUIRE CONTINUOUS ADJUSTMENT OF THE SIGN ASSEMBLY LOCATION TO MAINTAIN THE ABOVE INTERVAL.
- 9. AN ADDITIONAL SIGN ASSEMBLY SHALL BE PLACED 500' BEYOND THE LAST ENTRANCE RAMP FOR EACH INTERCHANGE THAT FALLS WITHIN THE 2.500'.
- 10. THE SIGN ASSEMBLY SHALL BE PLACED NO CLOSER THAN 500' TO ANY OTHER SIGN.
- 11. THE WORK ZONE SPEED LIMIT SIGNS AND SIGN ASSEMBLY SHALL BE PROMPTLY REMOVED OR COVERED WHEN SHOULDER CLOSURE IS REMOVED.
- 12. ALL CONFLICTING SPEED LIMIT SIGNS SHALL BE COVERED OR REMOVED.
- 13. "END WORK ZONE SPEED LIMIT" SIGNS SHALL BE IN PLACE ONLY WHEN THE EXISTING POSTED SPEED > 55MPH.
- 14. FOR SHOULDER REPAIRS OR REPLACEMENT THE CHANNELIZING DEVICES SHALL BE PLACED AT THE EDGE OF PAVEMENT WHENEVER THE WORK ACTIVITIES RESULT IN A DROP OFF AT THE EDGE OF PAVEMENT.
- 15. ANY UNATTENDED OBSTACLE OR EXCAVATION LEFT ON THE SHOULDER OVERNIGHT SHALL BE IN COMPLIANCE WITH THE ROADWAY TRAFFIC CONTROL AND COMMUNICATIONS MANUAL.
- 16. A 1'-O'' MINIMUM/2'-O'' DESIRABLE SHY DISTANCE SHALL BE PROVIDED, MEASURED BETWEEN EDGE OF PAVEMENT LANE MARKING TO THE EDGE OF THE TRAFFIC CONTROL DEVICE.
- 17. SEE STANDARD E1 FOR ADDITIONAL SIGNAGE REQUIRED WHEN WORK ZONE SPEED LIMIT IS REDUCED BY MORE THAN 10 MPH.
- 18. IN WORK ZONES WITH NO POSITIVE PROTECTION, A TRUCK MOUNTED ATTENUATOR SHALL BE PROVIDED WITH A BUFFER AREA BETWEEN THE FRONT OF THE TMA AND WORKERS OR EQUIPMENT. THE BUFFER AREA SHALL BE 200' UNLESS OTHERWISE DETERMINED. WHERE WORKERS OR EQUIPMENT ARE PRESENT BEYOND THE WORK AREA, AN ADDITIONAL TMA SHALL BE PROVIDED FOR EACH WORK AREA IS DEFINED AS STARTING AT THE END OF THE BUFFER AREA, EXTENDING 1000 FEET BEYOND THIS POINT.

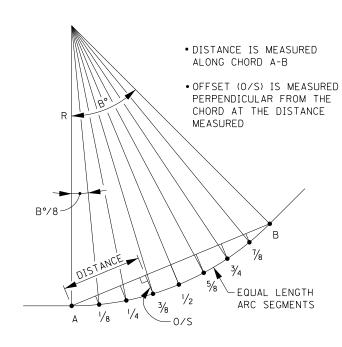
Illinois

*Tollway* 

DATE REVISIONS
3-01-2021 DELETED WORK ZONE PUBLIC
INFORMATION SIGN
3-01-2020 CLARIFIED TMA ROMTS & UPDATED
BARRICADE LIGHT ROMTS
3-01-2019 DELETED W21-1g, ADJUSTED SIGN
SPACING, ADDED TMA, REVISED NOTES

STANDARD E3-09





### CHORD OFFSET SKETCH

# GENERAL NOTES:

- 1. REVERSE CURVE INFORMATION CAN BE USED FOR SINGLE LANE OR MULTILANE TRAFFIC FLOWS, SHIFTING RIGHT TO LEFT (AS SHOWN) OR LEFT TO RIGHT BY CHANGING TO THE APPROPRIATE ADVANCE WARNING SEQUENCE.
- 2. THE REVERSE CURVE SHALL NOT BE USED OUTSIDE THE ACTIVITY AREA. LANE SHIFTS IN ADVANCE OF OR ON THE APPROACH TO THE ACTIVITY AREA SHALL BE IMPLEMENTED WITH A SHIFT RATE OF 65:1.
- 3. LANE SHIFTS FOR DEPARTURES OUT OF THE ACTIVITY AREA SHALL BE IMPLEMENTED WITH A SHIFT RATE OF 65:1.

SHEET 1 OF 2



DATE	REVISIONS								
3-31-2017	REVISED TABLE DATA ON SHEET 2.	MAINTENANCE OF TRAFFIC							
3-31-2016	REVISED TABLE DATA ON SHEET 2. REVERSE CURVE								
3-11-2015	REVISED NOTES AND ADDED RADIUS	METEROE CONTE							
	DIMENSIONS TO TABLES.								
3-31-2014	REVISED CURVE DATA PER MPH AND	STANDARD F4-07							
		1 71411114611 64-111							

APPROVED BY:

DATE:

DATE:

02/07/2012

### TYPE I (45 MPH) (RADIUS: 2100')

# TYPE II (50-55 MPH) (RADIUS: 3100')

				<u> </u>	PE I	110 11	/11 11/		<u> </u>	100 /								
					POI	NT LAY-	-OUT					(	CHORD	OFFSE	ET DA	ΤA		
OFFSET	E	В	<i> </i>	4	E	3	(	)		)	1/8	& 7/8	1/4 8	& 3/4	3/8 8	<u>\$ 5/8</u>	1,	/2
			X	Υ	Х	Y	Х	Y	X	Y	0/5	DIST	0/S	DIST	0/S	DIST	0/5	DIST
10	50.23	3.06	0	0	112.2	3.0	187.1	7.0	299.2	10.0	0.3	14.0	0.6	28.0	0.7	42.1	0.7	56.1
12	44.94	3.43	0	0	125.6	3.8	200.4	8.2	326.0	12.0	0.4	15.7	0.7	31.4	0.9	47.1	0.9	62.8
14	40.96	3.77	0	0	138.0	4.5	212.8	9.5	350.8	14.0	0.5	17.3	0.9	34.5	1.1	51.8	1.1	69.0
16	37.86	4.08	0	0	149.5	5.3	224.3	10.7	373.9	16.0	0.6	18.7	1.0	37.4	1.2	56.1	1.3	74.8
18	35.34	4.38	0	0	160.4	6.1	235.2	11.9	395.6	18.0	0.7	20.1	1.2	40.1	1.4	60.2	1.5	80.3
20	33.26	4.66	0	0	170.7	7.0	245.5	13.0	416.2	20.0	0.8	21.4	1.3	42.7	1.6	64.1	1.7	85.4
22	31.50	4.93	0	0	180.5	7.8	255.3	14.2	435.8	22.0	0.9	22.6	1.5	45.2	1.8	67.8	1.9	90.4
24	30.00	5.19	0	0	189.9	8.6	264.6	15.4	454.6	24.0	0.9	23.8	1.6	47.5	2.0	71.3	2.2	95.1
26	28.68	5.44	0	0	199.0	9.4	273.6	16.6	472.6	26.0	1.0	24.9	1.8	49.8	2.2	74.7	2.4	99.6
28	27.53	5.67	0	0	207.7	10.3	282.3	17.7	489.9	28.0	1.1	26.0	1.9	52.0	2.4	78.0	2.6	104 <b>.</b> C
30	26.51	5.90	0	0	216.0	11.1	290.6	18.9	506.7	30.0	1.2	27.0	2.1	54.1	2.6	81.1	2.8	108.2
32	25.59	6.13	0	0	224.2	12.0	298.7	20.0	522.9	32.0	1.3	28.0	2.3	56.1	2.8	84.2	3.0	112.2
34	24.76	6.34	0	0	232.0	12.9	306.6	21.1	538.6	34.0	1.4	29.0	2.4	58.1	3.0	87.1	3.2	116.2
36	24.02	6.55	0	0	239.7	13.7	314.2	22.3	553.8	36.0	1.5	30.0	2.6	60.0	3.2	90.0	3.4	120.0
38	23.33	6.76	0	0	247.1	14.6	321.6	23.4	568.7	38.0	1.6	30.9	2.7	61.9	3.4	92.8	3.7	123.8
40	22.71	6.96	0	0	254.3	15.5	328.8	24.5	583.1	40.0	1.7	31.8	2.9	63.7	3.6	95.5	3.9	127.4
42	22.13	7.15	0	0	261.4	16.3	335.8	25.7	597.2	42.0	1.8	32.7	3.1	65.4	3.8	98.2	4.1	131.0
44	21.60	7.34	0	0	268.3	17.2	342.7	26.8	611.0	44.0	1.9	33.6	3.2	67.2	4.0	100.8	4.3	134.4
46	21.11	7 <b>.</b> 53	0	0	275.0	18.1	349.4	27.9	624.4	46.0	2.0	34.4	3.4	68.9	4.2	103.3	4.5	137.8
48	20.65	7.71	0	0	281.6	19.0	356.0	29.0	637.6	48.0	2.1	35.2	3.6	70.5	4.5	105.8	4.7	141.1
50	20.22	7.89	0	0	288.1	19.9	362.4	30.1	650.5	50.0	2.2	36.1	3.7	72.2	4.7	108.3	5.0	144.4
52	19.82	8.06	0	0	294.4	20.7	368.7	31.3	663.1	52.0	2.3	36.9	3.9	73.7	4.9	110.7	5.2	147.6
54	19.44	8.23	0	0	300.6	21.6	374.9	32.4	675.5	54.0	2.4	37.6	4.1	75.3	5.1	113.0	5.4	150.7
56	19.09	8.40	0	0	306.7	22.5	380.9	33.5	687.7	56.0	2.5	38.4	4.2	76.8	5.3	115.3	5.6	153.8
58	18.76	8.56	0	0	312.7	23.4	386.9	34.6	699.6	58.0	2.6	39.2	4.4	78.3	5.5	117.6	5.9	156.8
60	18.44	8.73	0	0	318.6	24.3	392.7	35.7	711.4	60.0	2.7	39.9	4.6	79.8	5.7	119.8	6.1	159.8

POINT LAY-OUT										חטפט	VEEC	T D 4	ТΛ					
OFFSET F B A										CHORD OFFSET DATA  1/8 & 7/8   1/4 & 3/4   3/8 & 5/8   1/2								
OFFSET	E	В		1	E							& 7/8						_
			X	Y	X	Y	X	Y	X	Υ	0/5	DIST	0/S	DIST	0/5	DIST	0/5	DIST
10	58.28	2.63	0	0	142.5	3.3	217.4	6.7	359.9	10.0	0.4	17.8	0.6	35.6	0.8	53.4	0.8	71.3
12	52.30	2.94	0	0	158.9	4.1	233.8	7.9	392.8	12.0	0.4	19.9	0.8	39.7	1.0	59.6	1.0	79.5
14	47.80	3.22	0	0	174.1	4.9	249.0	9.1	423.1	14.0	0.5	21.8	0.9	43.5	1.1	65.3	1.2	87.1
16	44.25	3.48	0	0	188.3	5.7	263.1	10.3	451.4	16.0	0.6	23.5	1.1	47.1	1.3	70.6	1.4	94.2
18	41.38	3.73	0	0	201.6	6.6	276.4	11.4	478.0	18.0	0.7	25.2	1.2	50.4	1.5	75.6	1.6	100.8
20	38.99	3.96	0	0	214.2	7.4	289.0	12.6	503.2	20.0	0.8	26.8	1.4	53.6	1.7	80.4	1.9	107.2
22	36.96	4.18	0	0	226.2	8.3	301.0	13.7	527.2	22.0	0.9	28.3	1.5	56.6	1.9	84.9	2.1	113.2
24	35.22	4.40	0	0	237.7	9.1	312.5	14.9	550.1	24.0	1.0	29.7	1.7	59.5	2.1	89.2	2.3	118.9
26	33.70	4.60	0	0	248.7	10.0	323.5	16.0	572.1	26.0	1.1	31.1	1.9	62.2	2.3	93.3	2.5	124.4
28	32.36	4.80	0	0	259.3	10.9	334.0	17.1	593.3	28.0	1.2	32.4	2.0	64.9	2.5	97.3	2.7	129.8
30	31.16	4.99	0	0	269.5	11.7	344.2	18.3	613.8	30.0	1.3	33.7	2.2	67.4	2.8	101.2	2.9	134.9
32	30.10	5.17	0	0	279.4	12.6	354.1	19.4	633.6	32.0	1.4	34.9	2.4	69.9	3.0	104.9	3.2	139.9
34	29.13	5.35	0	0	289.0	13.5	363.7	20.5	652.7	34.0	1.5	36.2	2.5	72.3	3.2	108.5	3.4	144.7
36	28.25	5.52	0	0	298.4	14.4	373.0	21.6	671.4	36.0	1.6	37.3	2.7	74.7	3.4	112.0	3.6	149.4
38	27.45	5.69	0	0	307.4	15.3	382.1	22.7	689.5	38.0	1.7	38.5	2.9	76.9	3.6	115.4	3.8	153.9
40	26.72	5.86	0	0	316.3	16.2	390.9	23.8	707.1	40.0	1.8	39.6	3.0	79.1	3.8	118.7	4.0	158.3
42	26.04	6.02	0	0	324.9	17.1	399.5	24.9	724.3	42.0	1.9	40.6	3.2	81.3	4.0	122.0	4.3	162.7
44	25.41	6.17	0	0	333.3	18.0	407.9	26.0	741.1	44.0	2.0	41.7	3.4	83.4	4.2	125.1	4.5	166.9
46	24.83	6.32	0	0	341.5	18.9	416.1	27.1	757.6	46.0	2.1	42.7	3.5	85.5	4.4	128.2	4.7	171.0
48	24.29	6.47	0	0	349.6	19.8	424.1	28.2	773.6	48.0	2.2	43.7	3.7	87.5	4.6	131.3	4.9	175.1
50	23.78	6.62	0	0	357.4	20.7	431.9	29.3	789.4	50.0	2.3	44.7	3.9	89.5	4.8	134.2	5.2	179.0
52	23.31	6.76	0	0	365.2	21.6	439.6	30.4	804.8	52.0	2.4	45.7	4.0	91.4	5.1	137.2	5.4	182.9
54	22.86	6.91	0	0	372.7	22.5	447.2	31.5	819.9	54.0	2.5	46.6	4.2	93.3	5.3	140.0	5.6	186.7
56	22.44	7.04	0	0	380.2	23.4	454.6	32.6	834.8	56.0	2.6	47.6	4.4	95.2	5.5	142.8	5.9	190.5
58	22.05	7.18	0	0	387.5	24.3	461.9	33.7	849.4	58.0	2.7	48.5	4.6	97.0	5.7	145.6	6.1	194.1
60	21.67	7.31	0	0	394.7	25.2	469.1	34.8	863.7	60.0	2.8	49.4	4.7	98.8	5.9	148.3	6.3	197.7

# TYPE III (60-65 MPH) (RADIUS: 4400')

POINT LAY-OUT											СНС	ORD OF	FSET	DATA				
OFFSET	E	В	Δ	١	E	3	(	2		)	1/8	& 7/8	1/4 8	§ 3/4	3/8	& 5/8	1.	/2
			Х	Y	X	Y	X	Y	X	Y	0/S	DIST	0/5	DIST	0/5	DIST	0/S	DIST
10	67.06	2.29	0	0	175.6	3.5	250.5	6.5	426.1	10.0	0.4	21.9	0.7	43.9	0.8	65.8	0.9	87.8
12	60.34	2.54	0	0	195.3	4.3	270.2	7.7	465.5	12.0	0.5	24.4	0.8	48.8	1.0	73.2	1.1	97.7
14	55.24	2.78	0	0	213.5	5.2	288.4	8.8	501.8	14.0	0.6	26.7	1.0	53.4	1.2	80.1	1.3	106.8
16	51.22	3.00	0	0	230.4	6.0	305.3	10.0	535.7	16.0	0.7	28.8	1.1	57.6	1.4	86.4	1.5	115.2
18	47.95	3.21	0	0	246.3	6.9	321.2	11.1	567.5	18.0	0.8	30.8	1.3	61.6	1.6	92.4	1.7	123.2
20	45.22	3.41	0	0	261.4	7.8	336.3	12.2	597.7	20.0	0.9	32.7	1.5	65.4	1.8	98.1	1.9	130.8
22	42.90	3.59	0	0	275.8	8.6	350.6	13.4	626.4	22.0	0.9	34.5	1.6	69.0	2.0	103.5	2.2	137.9
24	40.91	3.77	0	0	289.5	9.5	364.3	14.5	653.8	24.0	1.0	36.2	1.8	72.4	2.2	108.6	2.4	144.8
26	39.16	3.94	0	0	302.6	10.4	377.5	15.6	680.1	26.0	1.1	37.8	2.0	75.7	2.4	113.6	2.6	151.4
28	37.62	4.11	0	0	315.3	11.3	390.1	16.7	705.4	28.0	1.2	39.4	2.1	78.9	2.7	118.3	2.8	157.8
30	36.24	4.27	0	0	327.5	12.2	402.3	17.8	729.9	30.0	1.3	41.0	2.3	81.9	2.9	122.9	3.1	163.9
32	35.01	4.42	0	0	339.4	13.1	414.2	18.9	753.5	32.0	1.4	42.4	2.5	84.9	3.1	127.4	3.3	169.8
34	33.90	4.57	0	0	350.8	14.0	425.6	20.0	776.4	34.0	1.5	43.9	2.6	87.8	3.3	131.7	3.5	175.6
36	32.88	4.72	0	0	362.0	14.9	436.7	21.1	798.7	36.0	1.6	45.3	2.8	90.6	3.5	135.8	3.7	181.1
38	31.95	4.86	0	0	372.8	15.8	447.5	22.2	820.4	38.0	1.7	46.6	3.0	93.3	3.7	139.9	4.0	186.6
40	31.10	5.00	0	0	383.4	16.7	458.1	23.3	841.4	40.0	1.8	47.9	3.1	95.9	3.9	143.9	4.2	191.9
42	30.31	5.13	0	0	393.7	17.6	468.4	24.4	862.0	42.0	1.9	49.2	3.3	98.5	4.1	147.8	4.4	197.0
44	29.59	5.26	0	0	403.7	18.6	478.4	25.4	882.1	44.0	2.0	50.5	3.5	101.0	4.4	151.5	4.6	202.1
46	28.91	5.39	0	0	413.5	19.5	488.2	26.5	901.7	46.0	2.1	51.7	3.7	103.5	4.6	155.2	4.9	207.0
48	28.28	5.52	0	0	423.1	20.4	497.8	27.6	920.9	48.0	2.2	52.9	3.8	105.9	4.8	158.8	5.1	211.8
50	27.68	5.64	0	0	432.6	21.3	507.2	28.7	939.7	50.0	2.3	54.1	4.0	108.2	5.0	162.4	5.3	216.5
52	27.13	5.76	0	0	441.8	22.2	516.4	29.8	958.2	52.0	2.4	55.3	4.2	110.6	5.2	165.9	5.6	221.2
54	26.61	5.88	0	0	450.8	23.2	525.4	30.8	976.3	54.0	2.5	56.4	4.3	112.8	5.4	169.3	5.8	225.7
56	26.12	6.00	0	0	459.7	24.1	534.3	31.9	994.0	56.0	2.6	57.5	4.5	115.0	5.6	172.6	6.0	230.2
58	25.65	6.11	0	0	468.4	25.0	543.0	33.0	1011.5	58.0	2.7	58.6	4.7	117.2	5.9	175.9	6.3	234.6
60	25.21	6.22	0	0	477.0	25.9	551.6	34.1	1028.6	60.0	2.8	59.7	4.9	119.4	6.1	179.1	6.5	238.9

SHEET 2 OF 2



MAINTENANCE OF TRAFFIC REVERSE CURVE

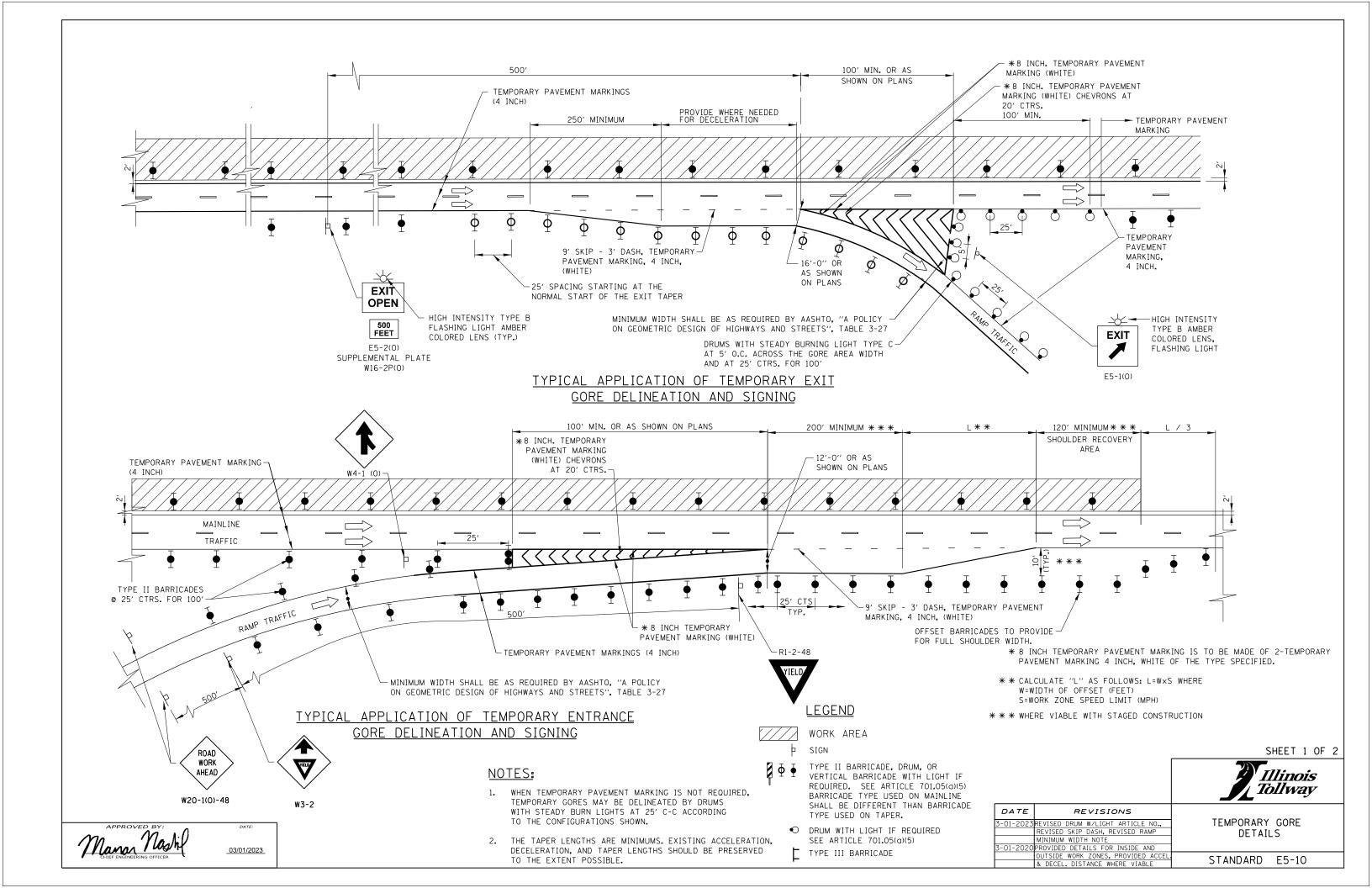
STANDARD E4-07

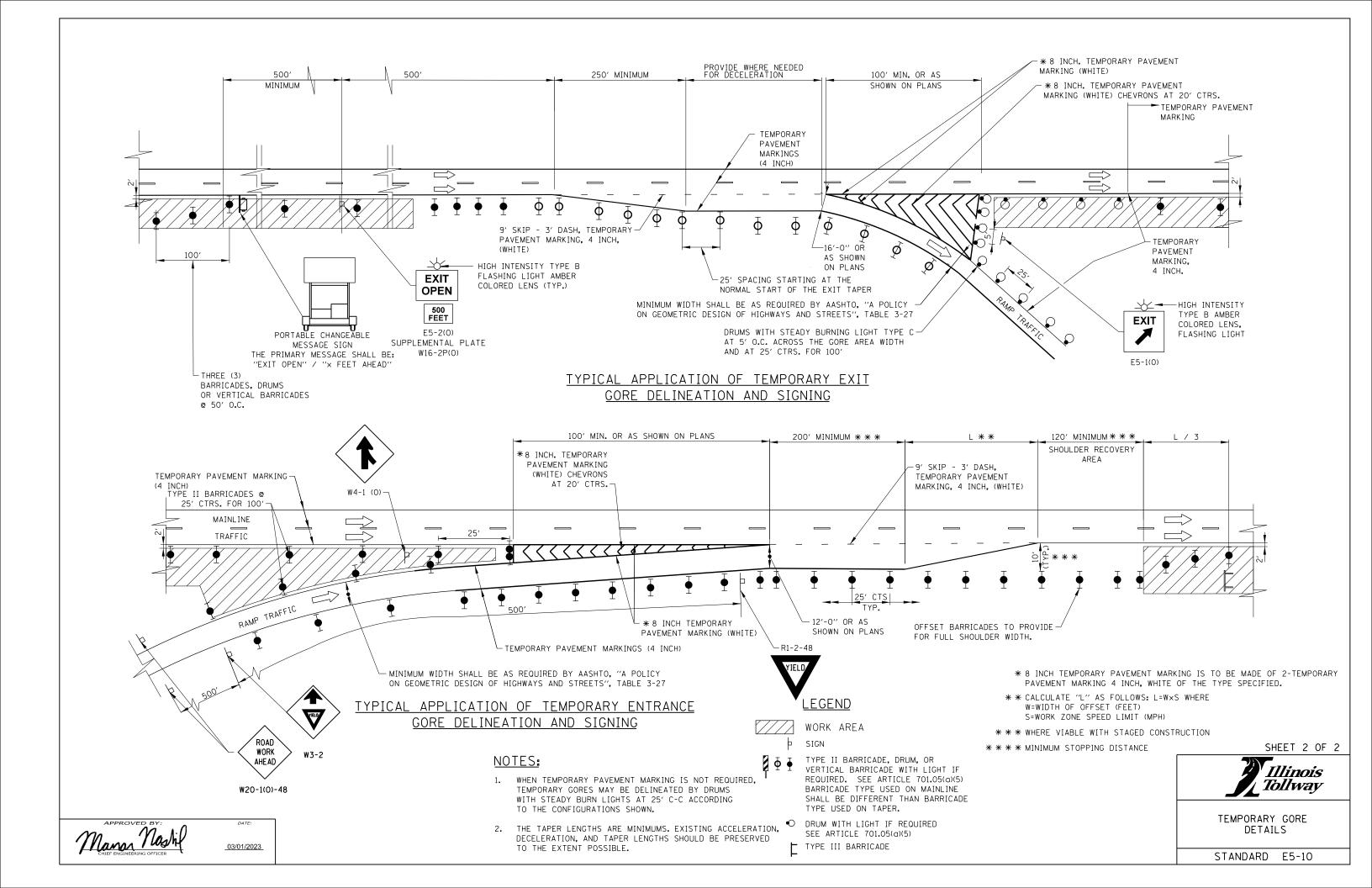
APPROVED BY:

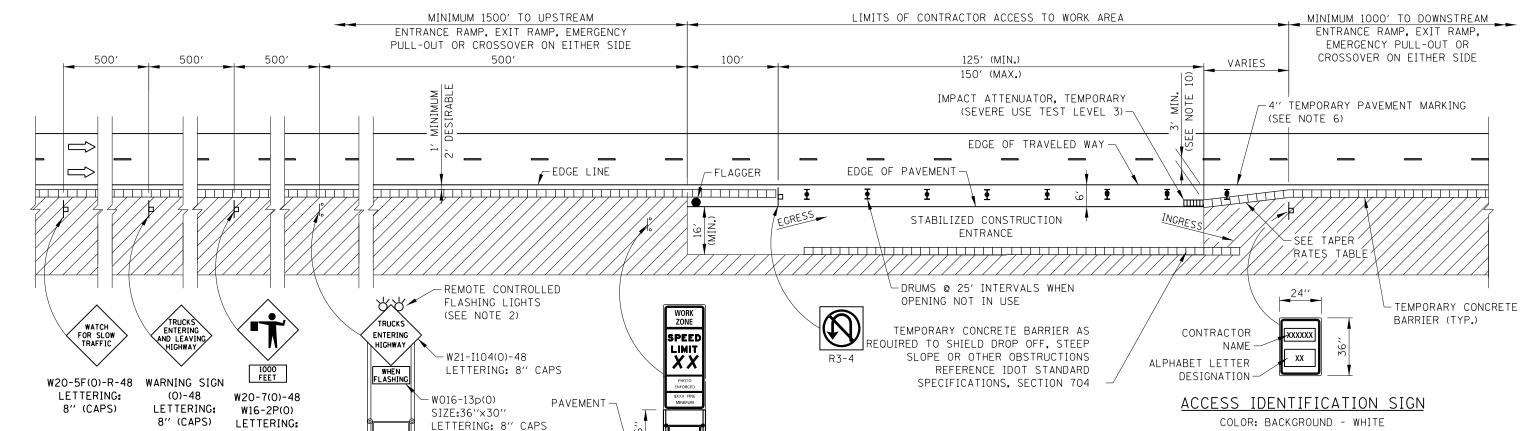
Paul Joracs

CHIEF ENGINEERING OFFICER

02/07/2012







# CONTRACTOR ACCESS TO WORK AREA WITH BARRIER WALL

WORK ZONE SPEED LIMIT

SIGN ASSEMBLY (SEE STANDARD E1)

#### NOTES:

SIGNS DESIGNATED FOR THIS ACCESS TO WORK AREA SHALL BE COVERED OR TURNED AWAY FROM THE TRAFFIC WHEN THE FLAGGER IS NOT ON STATION AND THE ACCESS OPENINGS ARE NOT IN USE.

-SIGN TRAILER

8" (CAPS)

- 2. THE FLASHING WARNING LIGHT SHALL MEET THE REQUIREMENTS OF ILLINOIS TOLLWAY SUPPLEMENTAL SPECIFICATIONS AND BE OPERATED BY THE FLAGGER REMOTELY. THE LIGHTS SHALL BE FLASHING ONLY WHEN A VEHICLE IS ENTERING THE ILLINOIS TOLLWAY.
- WHEN THREE LANES OR MORE ARE OPENED TO TRAFFIC, ADVANCE WARNING SIGNS AND ASSEMBLIES SHALL BE PROVIDED ON BOTH SIDES OF TRAVELED WAY.
- WHEN CONTRACTOR ACCESS TO WORK AREA IS ON OPPOSITE SIDE FROM SHOWN, ALL INSTALLATIONS ARE MIRROR IMAGE.
- FOR NIGHTTIME OPERATIONS, TEMPORARY LIGHTING OF CONSTRUCTION ACCESS TO WORK AREA SHALL BE PROVIDED.
- TEMPORARY PAVEMENT MARKINGS SHALL BE REPLACED AS OFTEN AS NECESSARY TO DELINEATE OPENINGS.
- IF POSSIBLE, LANE CLOSURES SHALL BE UTILIZED TO ELIMINATE THE MERGING OF CONSTRUCTION TRAFFIC INTO THROUGH TRAFFIC LANES.
- A 1'-0" MINIMUM/2'-0" DESIRABLE SHY DISTANCE SHALL BE PROVIDED, MEASURED BETWEEN EDGE OF PAVEMENT LANE MARKING TO THE EDGE OF THE TRAFFIC CONTROL DEVICES.

- "TRUCKS ENTERING HIGHWAY" SIGN MAY BE SUPPORTED BY OPTIONAL POST OR STAND MOUNTED DEVICES WHEN POSITIONED BEHIND TEMPORARY CONCRETE BARRIER.
- 10. A TEMPORARY EXCEPTION TO THE 3' MINIMUM CLEARANCE BETWEEN EDGE OF TRAVELED WAY AND EDGE OF ATTENUATOR MAY BE REQUESTED FOR PCC PAVING OPERATIONS WHEN THIS CONFIGURATION DOES NOT PROVIDE 4' OF CLEARANCE BETWEEN BACK OF ATTENUATOR AND THE PROPOSED EDGE OF THE LANE BEING CONSTRUCTED IN THE CURRENT STAGE. THE DURATION OF REDUCED CLEARANCE SHALL BE LIMITED TO 24 HOURS.
- 11. CONTRACTOR ACCESS LOCATIONS SHALL BE SPACED NO CLOSER THAN 2.600 FEET BETWEEN AREAS, EXCEPT FOR BRIDGE WORK WHERE 1 ACCESS LOCATION MAY BE PROVIDED ON EACH SIDE OF THE STRUCTURE. AT THESE LOCATIONS, ONLY 1 ACCESS LOCATION AT A TIME WILL BE ALLOWED TO BE OPEN FOR USE.
- 12. EXITING THE WORK ZONE AT ANY PLACE OTHER THAN AT WORK ZONE EXIT OPENING WILL BE PROHIBITED.
- 13. ALL VEHICLES SHALL USE THEIR TURN SIGNALS TO WARN MOTORISTS WHEN ENTERING AND EXITING THE WORK ZONE OPENINGS.
- 14. FLAGGERS SHALL NOT STOP TRAFFIC OR DIRECT TRAFFIC INTO AN ADJACENT LANE.
- 15. IN WORK ZONES WITH NO POSITIVE PROTECTION, A TRUCK MOUNTED ATTENUATOR (TMA) SHALL BE PROVIDED WITH A BUFFER AREA BETWEEN THE FRONT OF THE TMA AND WORKERS OR EQUIPMENT. THE BUFFER AREA SHALL BE 200' UNLESS OTHERWISE DETERMINED. WHERE WORKERS OR EQUIPMENT ARE PRESENT BEYOND THE WORK AREA, AN ADDITIONAL TMA SHALL BE PROVIDED FOR EACH WORK AREA. A WORK AREA IS DEFINED AS STARTING AT THE END OF THE BUFFER AREA, EXTENDING 1000 FEET BEYOND THIS POINT.

#### COLOR: BACKGROUND - WHITE (REFLECTIONIZED)

AND LETTERS-BLACK

TAPER	RATES		(R
I AI LIV	INATES		BORDER
WORK			BARRIEF
ZONE		BARRIER	AT OR
SPEED	SHY LINE	INSIDE	BEYOND
(mph)	(f+.)	SHY LINE	SHY LIN
65	8.5	28:1	19:1
60	8	26:1	18:1
55	7	24:1	16:1
50	6.5	21:1	14:1
45	6	18:1	12:1
40	5	16:1	10:1
35	4.5	15:1	9:1
30	4	13:1	8:1

LEGEND

FLAGGER

SPOTTER

CONSTRUCTION SIGN ON SUPPORT PER ILLINOIS TOLLWAY STANDARD UNLESS NOTED

DIRECTION OF TRAFFIC FLOW

WORK AREA

Ī DRUM WITH LIGHT IF REQUIRED. SEE ARTICLE 701.05(a)(5)

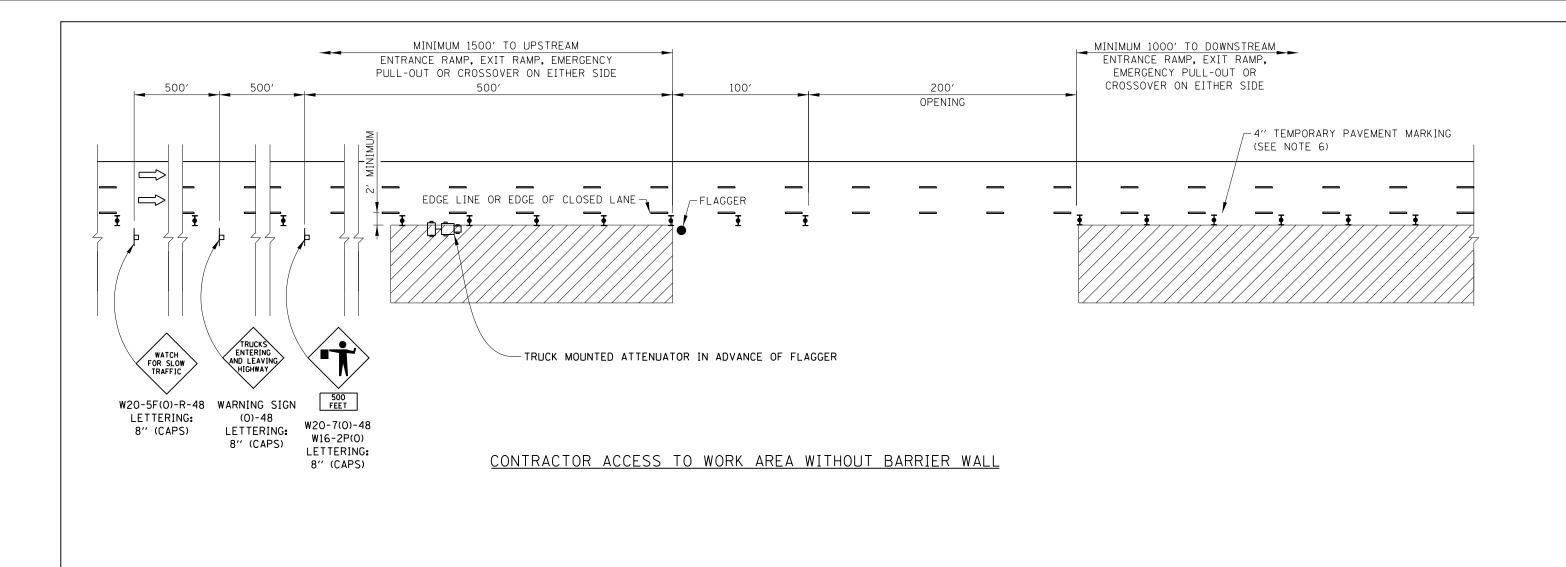
TRUCK MOUNTED ATTENUATOR (TMA) (ROLL WITH MOVING OPERATION)

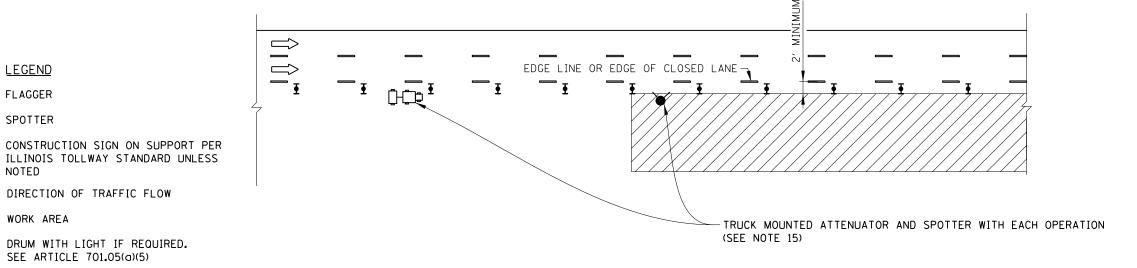
SHEET 1 OF 2

		Illinois Tollway
TE	REVISIONS	
2027	DEVICED DOUN WALTCUT ADTICLE NO	CONTRACTOR ACCESS

DATCONTRACTOR ACCESS LARIFIED TMA REQUIREMENTS &
PDATED BARRICADE LIGHT REQ. TO WORK AREA DDED SHEET FOR DETAILS THOUT BARRIER WALL STANDARD E6-07







SPOTTER AND TMA AT WORK AREA

Illinois Tollway

SHEET 2 OF 2

CONTRACTOR ACCESS
TO WORK AREA

STANDARD E6-07

APPROVED BY:

DATE:

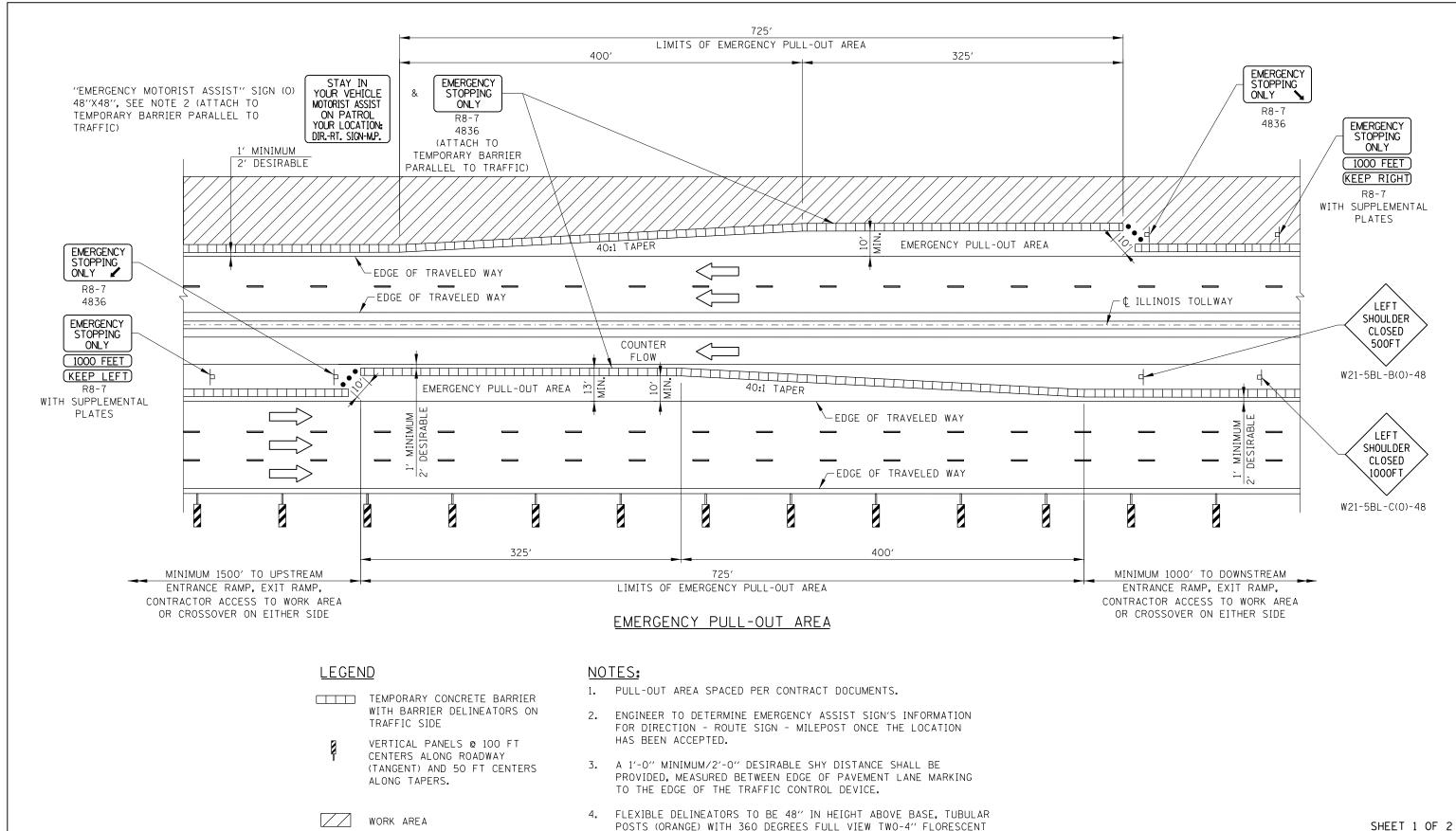
Many Now I 

CHIEF ENGINEERING OFFICER

DATE:

03/01/2023

TRUCK MOUNTED ATTENUATOR (TMA)
(ROLL WITH MOVING OPERATION)



*Tollway* 

*Illinois* 

DATE REVISIONS PULL-OUT AREA -01-2020 REMOVED LIGHTS FROM VERTICAL PANELS REVISED NOTES 4 ADDED ENFORCEMENT PULL-OUT AREA
3 REVISED "EMERGENCY MOTORIST STANDARD E7-05

FLEXIBLE DELINEATOR POSTS

DIRECTION OF TRAFFIC FLOW

CONSTRUCTION SIGN ON SUPPORT PER ILLINOIS TOLLWAY STANDARD UNLESS NOTED.

POSTS (ORANGE) WITH 360 DEGREES FULL VIEW TWO-4" FLORESCENT ORANGE REFLECTORIZED TAPE BANDS. FLEXIBLE DELINEATORS SHALL BE CAPABLE OF BENDING UNDER REPEATED IMPACTS AND RETURN TO AN UPRIGHT POSITION WITHOUT DAMAGE TO THE IMPACTING VEHICLE OR THE DELINEATORS. THE DELINEATOR'S BASE SHALL BE SECURELY MOUNTED TO THE ROADWAY SURFACE. THE POSTS SHALL BE REMOVABLE FROM THE BASES TO PERMIT REPLACEMENT OF DAMAGED UNITS AS REQUIRED.

APPROVED BY Paul Kovacs 02/07/2012

