

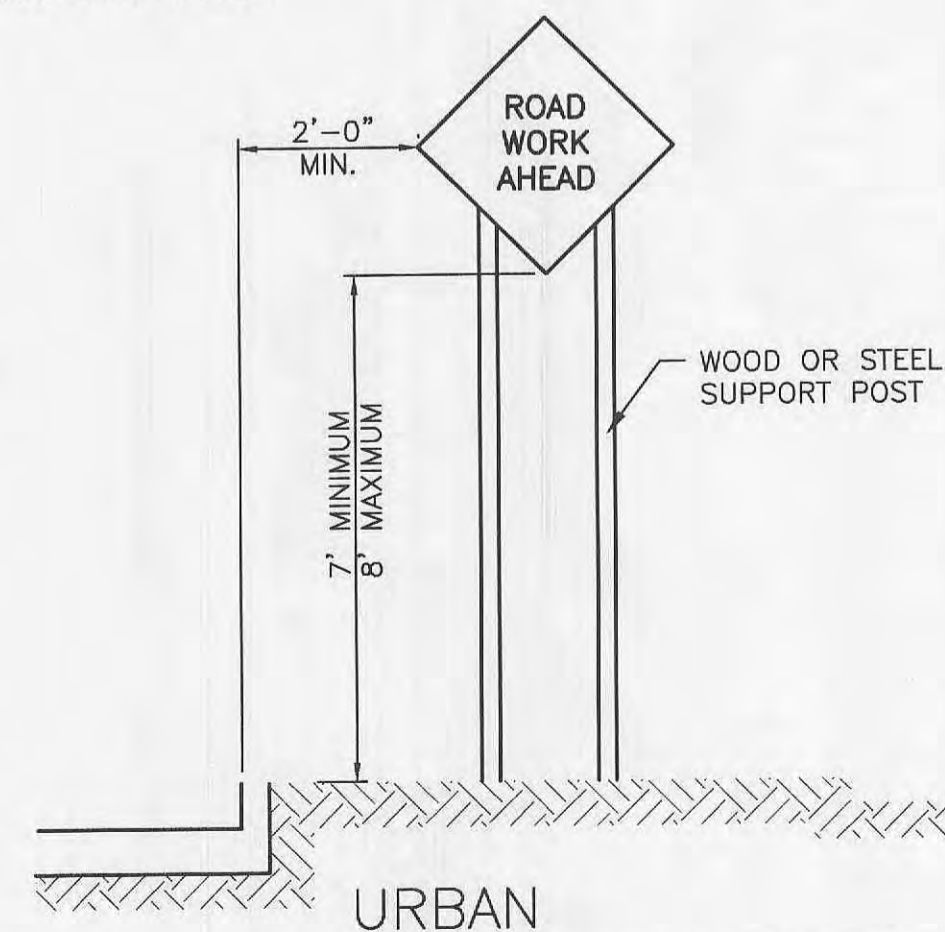
ADVANCE WARNING SIGN SERIES		
SPEED MILES PER HOUR	MINIMUM DISTANCE IN FEET	
	BETWEEN SIGNS	FROM LAST SIGN TO TAPER
0-20	200	200
25-30	300	250
30-35	300	300
40-45	500	400
50-60	500-1600	500-1000

RECOMMENDED TAPER LENGTH AND DEVICE SPACING FOR CHANNELIZING TAPERS				
APPROACH SPEED OF TRAFFIC IN MILES/HOUR	MINIMUM TAPER LENGTHS FOR LANE WIDTHS*			MAXIMUM DEVICE SPACING IN FEET
	10 FT.	11 FT.	12 FT.	
20	70	75	80	20
25	105	115	125	25
30	150	165	180	30
35	205	225	245	35
40	265	295	320	40
45	450	495	540	45
50	500	550	600	50
55	550	605	660	55
60	600	660	720	60
65	650	715	780	65

RECOMMENDED MAXIMUM SPACING OF CHANNELIZING DEVICES AT CURVES					
CURVATURE		SPACING ON CURVE IN FEET	SPACING IN ADVANCE OF AND BEYOND CURVE IN FEET		
DEGREE OF CURVE	RADIUS IN FEET		1st.	2nd.	3rd.
TANGENT to 1/2"	≥ 11,500'	100	100	100	100
1/2" to 2"	11,500' to 2,860'	75	85	100	100
2" to 4"	2,860' to 1,430'	60	70	80	100
4" to 8"	1,430' to 715'	50	60	70	80
8" to 16"	715' to 360'	40	50	60	70
16" to 40"	360' to 140'	20	30	50	70

$L = \frac{WS^2}{80}$  FOR S OF 40 MPH OR LESS;  $L = \frac{WS^2}{100}$  FOR S OF 45 MPH OR MORE  
 TAPER LENGTHS SHOWN ARE ROUNDED TO NEAREST 5 FEET

NOTE: PRESCRIBED DISTANCES MAY BE VARIED WITH APPROVAL OF THE DEPARTMENT OF HIGHWAYS AND TRAFFIC.

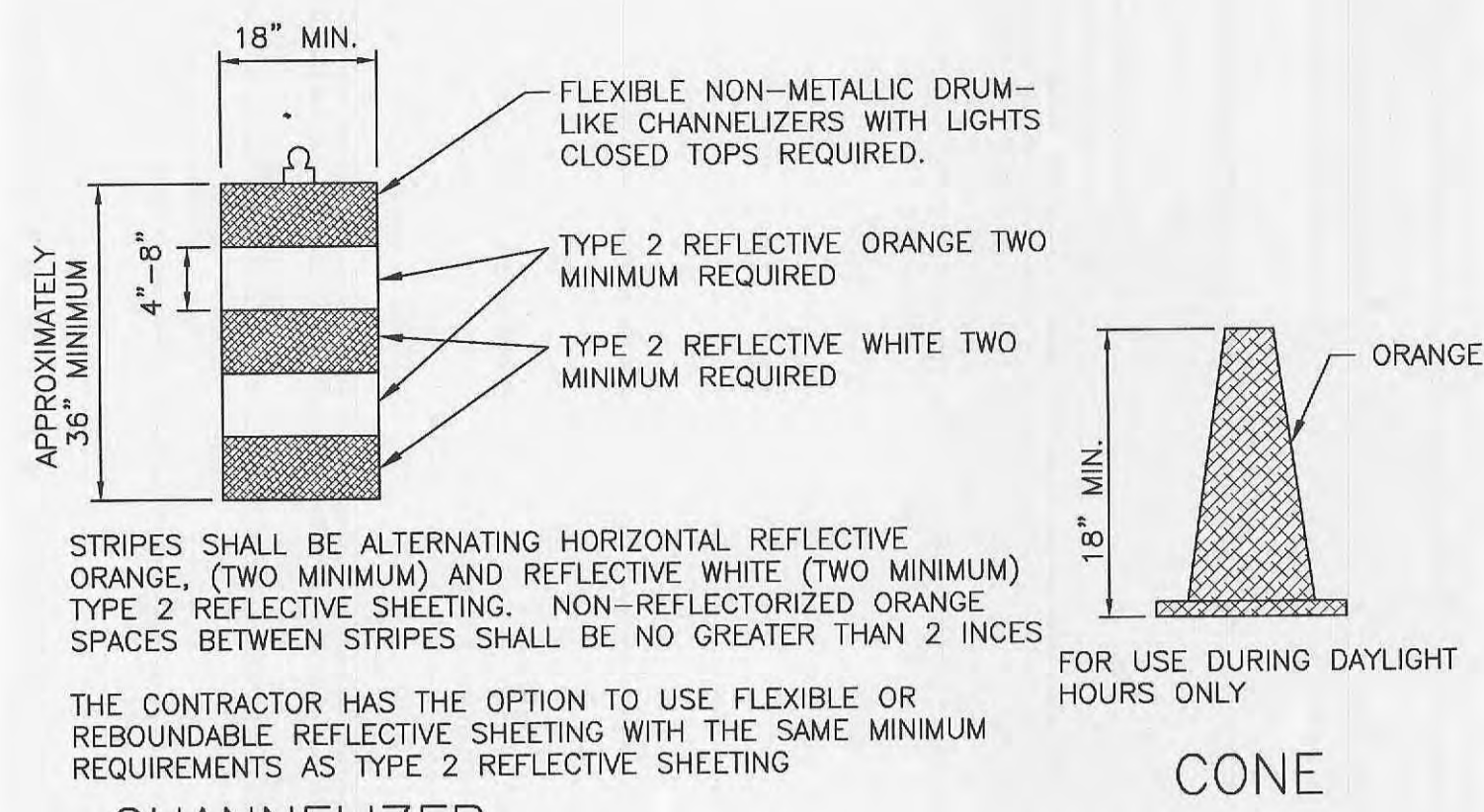
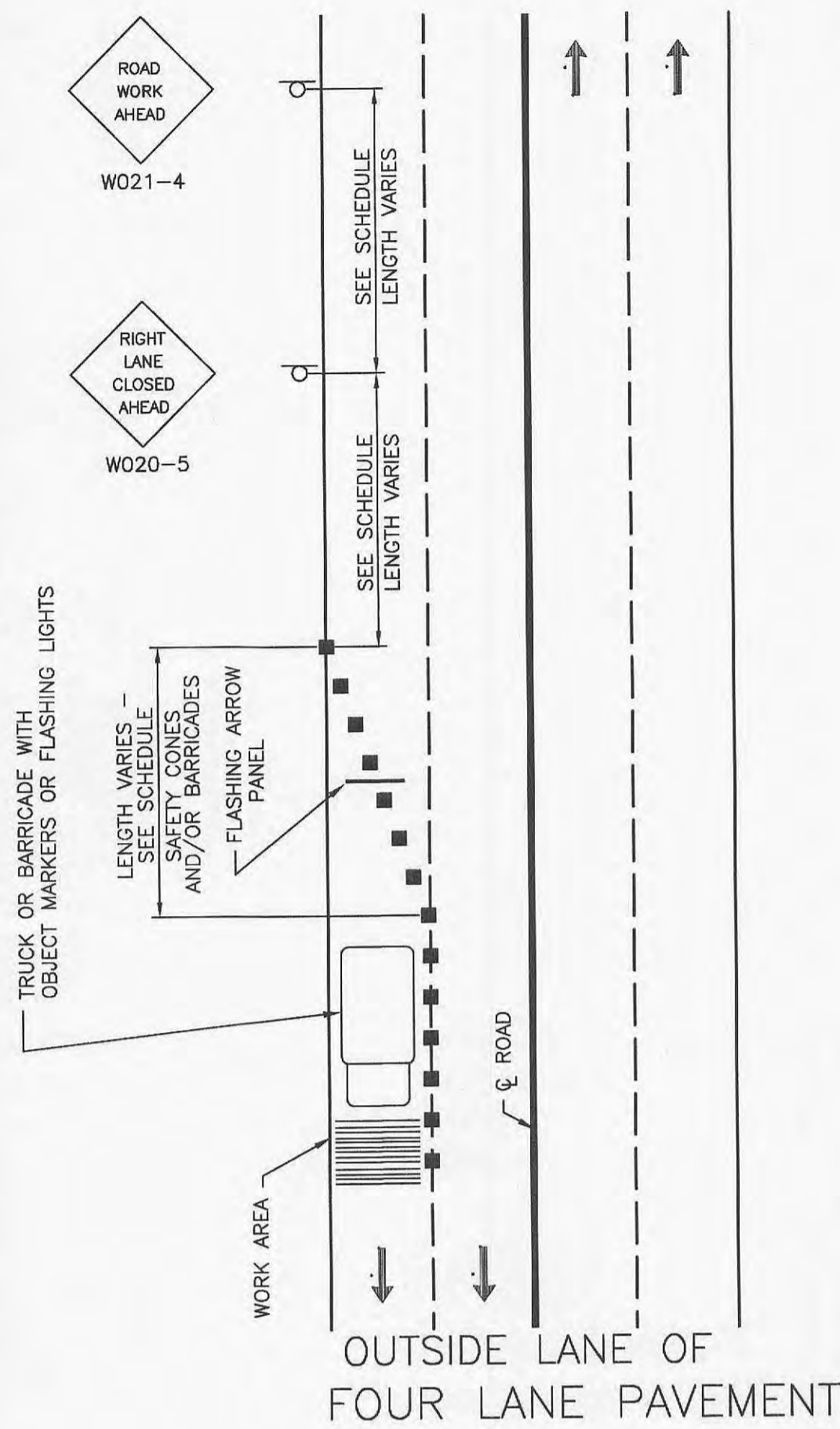


SUPPORT POSTS SHALL NOT EXTEND ABOVE THE SIGN UNLESS DISTANCE PLAQUE OR WARNING LIGHT IS SPECIFIED. LIGHT WEIGHT STEEL POST PERMITTED.

BRACING OF POSTS IS DISCOURAGED, HOWEVER, ANY BRACE PLACED PARALLEL TO THE ROAD SHALL BE SLOPED DOWN TOWARD APPROACHING TRAFFIC. ANY ANCHOR POST USED IN BRACING SHALL NOT EXTEND MORE THAN 4 INCHES ABOVE THE GROUND LINE.

ONLY ONE SPLICE LOCATED 4 INCHES ABOVE GROUND LINE WILL BE ALLOWED ON STEEL POSTS. ALL POSTS AND SIGNS SHALL BE INSTALLED AND MAINTAINED IN A PLUMB POSITION.

WOOD POSTS LARGER THAN 4" X 4" SHALL HAVE BREAKAWAY FEATURES.  
 HEIGHT AND LATERAL LOCATIONS



STRIPES SHALL BE ALTERNATING HORIZONTAL REFLECTIVE ORANGE, (TWO MINIMUM) AND REFLECTIVE WHITE (TWO MINIMUM) TYPE 2 REFLECTIVE SHEETING. NON-REFLECTORIZED ORANGE SPACES BETWEEN STRIPES SHALL BE NO GREATER THAN 2 INCHES

THE CONTRACTOR HAS THE OPTION TO USE FLEXIBLE OR REBOUNDABLE REFLECTIVE SHEETING WITH THE SAME MINIMUM REQUIREMENTS AS TYPE 2 REFLECTIVE SHEETING

### NOTES

1. THE PREDOMINANT COLOR OF THE DRUMS SHALL BE REFLECTORIZED ORANGE WITH AT LEAST TWO HORIZONTAL, CIRCUMFERENTIAL, REFLECTORIZED WHITE STRIPES. STRIPES SHALL BE ALTERNATING REFLECTORIZED ORANGE WITH WHITE REFLECTORIZED SHEETING WITH SMOOTH, FLAT SURFACE. THERE SHALL BE A MINIMUM OF TWO ORANGE AND TWO WHITE REFLECTORIZED STRIPES.
2. FOR STABILITY, A SANDBAG MAY BE USED FOR WEIGHTING THE DRUMS AND/OR BARRICADES. WATER AND OTHER FOREIGN DEBRIS SHALL NOT BE USED AS A WEIGHTING DEVICE DUE TO THE INCREASED HAZARD IF DRUM OR BARRICADE IS STRUCK BY A VEHICLE.
3. THE TYPE I BARRICADE SHALL USE A REFLECTORIZED ORANGE STRIPE ALTERNATING WITH WHITE REFLECTORIZED SHEETING.
4. THE USE OF CONES SHALL BE LIMITED TO DURING THE WORKING DAY. OTHER APPROVED TRAFFIC CONTROL DEVICES SHALL BE USED AT ALL OTHER TIMES.
5. ALL ADVANCE ADVISORY CONSTRUCTION AND DETOUR SIGNING SHOWN ON THE DETOUR PLAN WILL BE FURNISHED BY THE CONTRACTOR. ALL TRAFFIC CONTROL DEVICES FOR THE PURPOSE OF CHANNELIZATION OF TRAFFIC, IN AND AROUND THE WORK AREA, PROTECTION OF THE WORK AREA, AND WARNING DEVICES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO FURNISH, INSTALL AND MAINTAIN, AS APPROVED BY THE ENGINEER.
6. PAYMENT FOR THE FURNISHING, PLACING AND MAINTAINING OF FLAGS, BARRICADES, DRUMS, CONES AND FURNISHING FLAGGERS WILL BE PAID FOR IN LUMP SUM UNDER THE CONTRACT ITEM FOR "STANDARD TRAFFIC CONTROL DEVICES".

ISSUE REF		BY	DATE	DESCRIPTION
1		JPB	9-8-11	DETECTION BASIN FENCING
2		JPB	10-26-11	CITY COMMENTS

DATE 10-26-11

McDonald's  
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 HEARTLAND REGION  
 10801 MAIN BLVD., SUITE 400, OVERLAND PARK, KS 66210  
 ADDRESS: 1001 NORTH MAIN STREET O'FALLON, MISSOURI 63346

PLANNING	DESIGN	CONSTRUCTION	OPERATION
DATE	DATE	DATE	DATE
SIGNATURE (2 REQUIRED)	SIGNATURE	SIGNATURE	SIGNATURE
REGIONAL MGR.	CONST. MGR.	PROJECT MGR.	REAL ESTATE MGR.
CO-SIGN SIGNATURES	CONTRACTOR	OWNER	

STATUS	DATE	BY
PRELIMINARY	5-25-11	FG
FINAL PLAN	-	FG
AS-CONST.		

PLANNING		DESIGN		CONSTRUCTION		OPERATION	
CITY	STATE	CITY	STATE	CITY	STATE	CITY	STATE
O'FALLON	MISSOURI	O'FALLON	MISSOURI	O'FALLON	MISSOURI	O'FALLON	MISSOURI
COUNTY		COUNTY		COUNTY		COUNTY	
ST. CHARLES		ST. CHARLES		ST. CHARLES		ST. CHARLES	
REGIONAL DWG. NO		NATIONAL NUMBER		REGIONAL DWG. NO		NATIONAL NUMBER	
024-0674		-		024-0674		-	

PREPARED BY:	DATE:	SCALE:
Farnsworth GROUP		AS SHOWN

UTILITY INFORMATION	SIZE	TYPE	LOCATION
SANITARY SEWER	-	-	-
WATER	-	-	-
STORM SEWER	-	-	-
ELECTRIC	-	-	-
GAS	-	-	-

LEGEND	EXISTING ELEVATION	PROPOSED ELEVATION
SANITARY SEWER	(76.5)	77.0
WATER		
STORM SEWER		
ELECTRIC		
GAS		
LOT LIGHT		

PLANNING	DESIGN	CONSTRUCTION	OPERATION
DATE	DATE	DATE	DATE
SIGNATURE (2 REQUIRED)	SIGNATURE	SIGNATURE	SIGNATURE
REGIONAL MGR.	CONST. MGR.	PROJECT MGR.	REAL ESTATE MGR.
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STATUS	DATE	BY
PRELIMINARY	5-25-11	FG
FINAL PLAN	-	FG
AS-CONST.		

REGIONAL DWG. NO	NATIONAL NUMBER
024-0674	-

**C1.7**  
 TRAFFIC CONTROL PLAN  
 FG JOB NO 011046