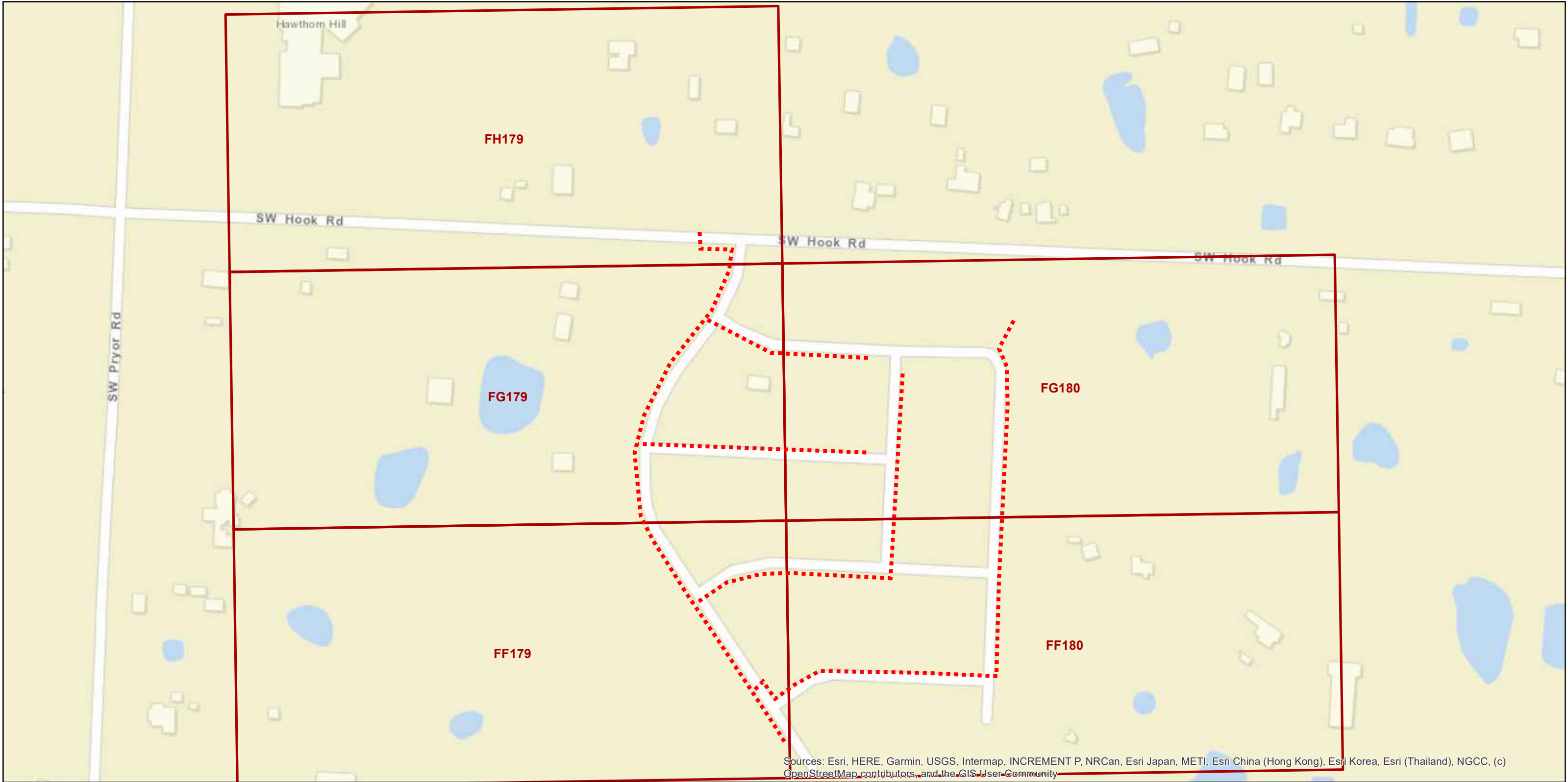




Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Community

LEGEND

 PROPOSED HANDHOLE

 PROPOSED AERIAL

 PROPOSED UNDERGROUND

 STREETS

 DIMENSIONS

 PARCELS

 GRIDS

 Pole

 ROW



0195390780 Feet

1IN = 100FT

MCI137-E-LSM147
Google Fiber

BY	DATE	DESCRIPTION
BW	9/9/2020	PERMIT DRAWING

CREATED BY: Bethany Wilson
PHONE: 913-238-0403
EMAIL: ecc.kc.permit@ervincable.com



ALL CONSTRUCTION IS PROPOSED AND SUBJECT TO RELOCATION WHEN OBJECTS ARE ENCOUNTERED THAT WILL INTERFERE WITH THE EXISTING INFRASTRUCTURE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD LOCATE ALL UNDERGROUND OBSTRUCTIONS AND UTILITIES PRIOR TO CONSTRUCTION. COMPLETE REPAIR OF ANY AND ALL DAMAGES INCURRED SHALL BE AT THE EXPENSE OF THE CONTRACTOR





Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

LEGEND

PROPOSED HANDHOLE

PROPOSED AERIAL

PROPOSED UNDERGROUND

STREETS

DIMENSIONS

PARCELS

GRIDS

Pole

ROW

0 50 100 200 Feet

1IN = 100FT



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LEGEND

-  PROPOSED HANDHOLE

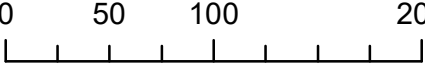
 PROPOSED AERIAL

 PROPOSED UNDERGROUND

 STREETS
-  DIMENSIONS

 PARCELS

 GRIDS
-  Pole

 ROW
-  0 50 100 200 Feet

1IN = 100FT



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Google Fiber

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ALL CONSTRUCTION IS PROPOSED
AND SUBJECT TO RELOCATION
WHEN OBJECTS ARE
ENCOUNTERED THAT WILL
INTERFERE WITH THE
EXISTING INFRASTRUCTURE.
IT IS THE CONTRACTOR'S
RESPONSIBILITY TO FIELD
LOCATE ALL UNDERGROUND
OBSTRUCTIONS AND UTILITIES
PRIOR TO CONSTRUCTION.
COMPLETE REPAIR OF ANY AND
ALL DAMAGES INCURRED SHALL
BE AT THE EXPENSE OF THE
CONTRACTOR





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LEGEND

 PROPOSED HANDHOLE

 PROPOSED AERIAL

 PROPOSED UNDERGROUND

 STREETS

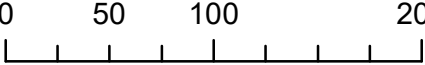
 DIMENSIONS

 PARCELS

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 Pole

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0 50 100 200 Feet

1IN = 100FT



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LEGEND



PROPOSED HANDHOLE



PROPOSED AERIAL



PROPOSED UNDERGROUND



STREETS



DIMENSIONS



PARCELS



GRIDS



Pole



ROW

050100200 Feet

1IN = 100FT



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Google Fiber

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BW	9/9/2020	PERMIT DRAWING

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LEGEND



PROPOSED HANDHOLE



PROPOSED AERIAL



PROPOSED UNDERGROUND



STREETS



DIMENSIONS



PARCELS



GRIDS



Pole



ROW

0

50

100

200 Feet

1IN = 100FT



MCI137-E-LSM147
Google Fiber

BY	DATE	DESCRIPTION
BW	9/9/2020	PERMIT DRAWING

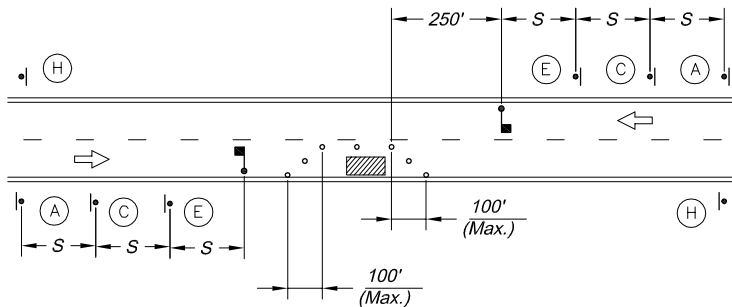
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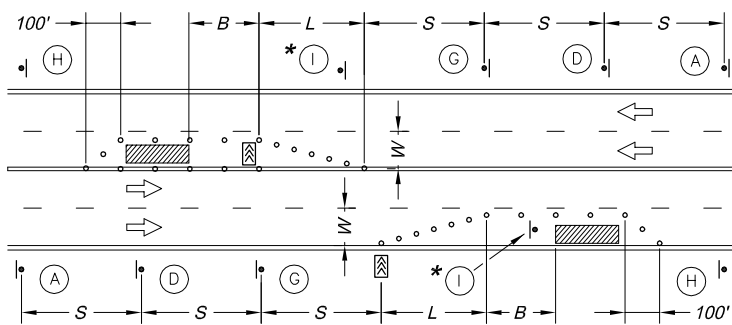
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	- Work Area		- Channelizer
	- Sign		- Arrow Panel
	- Barricade		- Flagger
	- Direction of Travel		

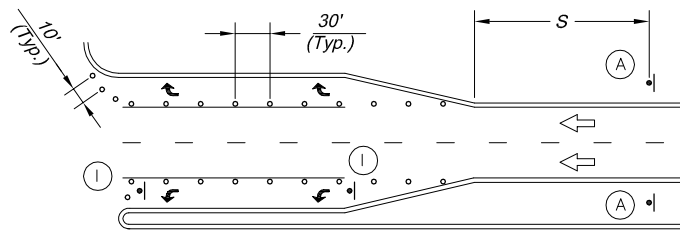


LANE CLOSURE - TWO LANE STREET



LANE CLOSURE - FOUR LANE STREET

** Install Signs Every 200 Feet Throughout the Closed Lane or As Needed*



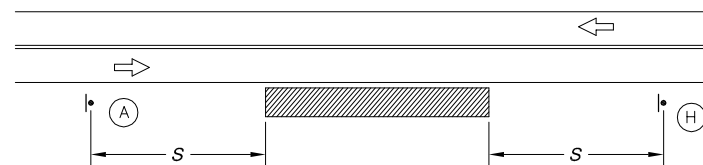
TURN LANE CLOSURE

Sign Spacing "S"		Taper Dimensions (Feet)				
Speed Limit (mph)	Spacing (Feet)	Speed Limit (mph)	Minimum Taper Length "L", per Lane Width "W"			Minimum Number of Channelizers
			10	11	12	
25	100	25	105	115	125	6
30 - 35	250	30	150	165	180	7
≥ 40	350	35	205	225	245	8
		40	270	295	320	9
		45	450	495	540	13

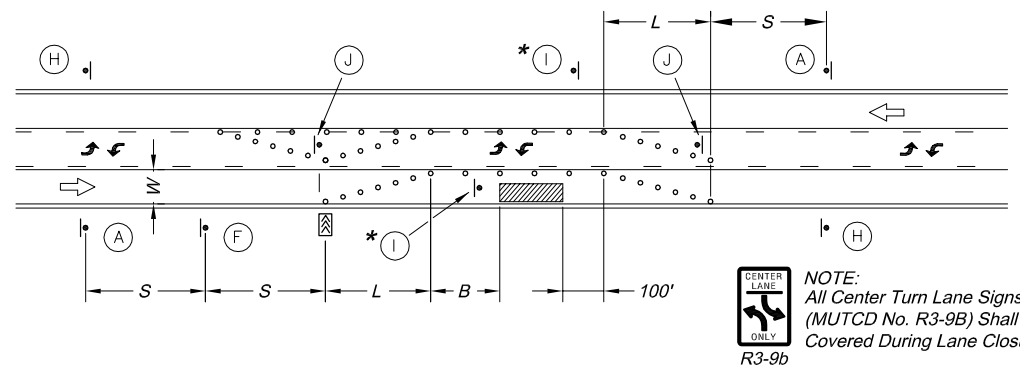
Guidelines for Length of Longitudinal Buffer Space "B"	
Speed Limit (mph)	Length (Feet)
25	35
30	55
35	85
40	120
45	170

Maximum Channelizer Spacing		
Speed Limit (mph)	Within Taper (Feet)	Outside Taper (Feet)
25	25	50
30	30	60
35	35	70
40	40	80
45	45	90

ROAD WORK AHEAD (A) W20-1 36" x 36"	ROAD CLOSED AHEAD (B) W20-2 36" x 36"	ONE LANE ROAD AHEAD (C) W20-4 36" x 36"	RIGHT LANE CLOSED AHEAD (D) W20-5R 36" x 36"	LEFT LANE CLOSED AHEAD (E) W20-7a 36" x 36"	(F) W1-4L 36" x 36"
W4-2R 36" x 36"	END ROAD WORK (H) G20-2 36" x 18"	Use Only As Approved by City Traffic Engineer (I) R3-2 24" x 24"	KEEP RIGHT (J) R4-7a 24" x 30"	ROAD CLOSED (K) R11-2 48" x 30"	ROAD CLOSED TO THRU TRAFFIC (L) R11-4 60" x 30"

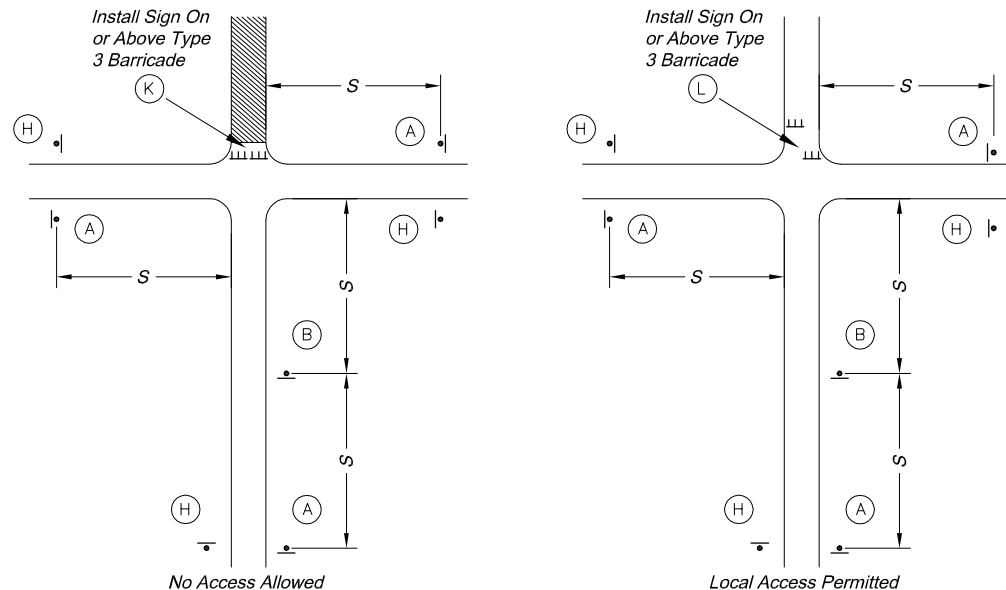


TYPICAL SIGNING FOR WORK ADJACENT TO THE STREET



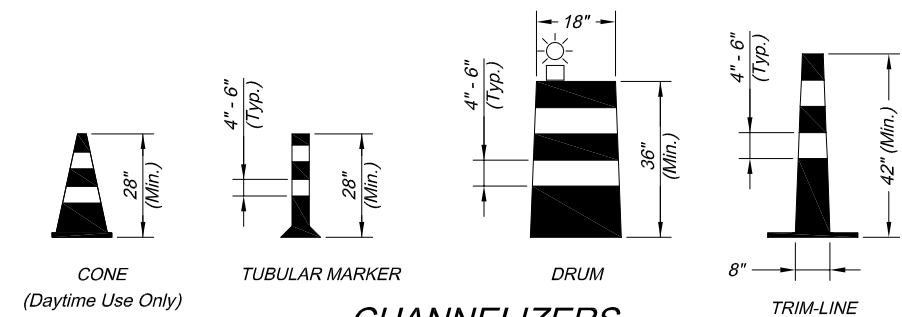
LANE CLOSURE - THREE LANE STREET

* Install Signs Every 200 Feet Throughout the Closed Lane or As Needed



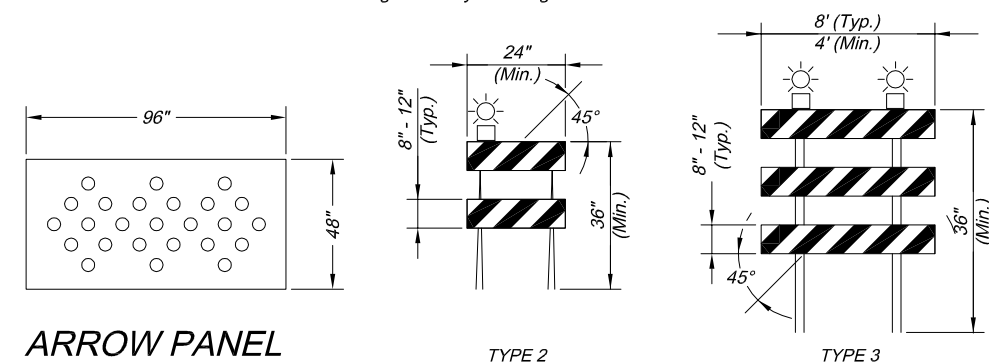
TYPICAL STREET CLOSURE

1. All signs, barricades, channelizers, markings and other traffic control devices shall conform to the latest edition of the Manual on Uniform Traffic Control Devices (MUTCD).
2. All traffic control devices shall be standard in size, shape, color, and message, in good condition, and retro-reflectORIZED. All signs shall be securely mounted with height and lateral location as described in the MUTCD.
3. Warning lights shall be used on barricades in place at night and on warning signs which alert drivers about a change in alignment, traffic control, lane closure, or road closure.
4. Flaggers shall be used where indicated on the plans, where construction vehicles interact with normal traffic, or where construction activities impose a restriction on traffic, as directed by the City Traffic Engineer. Where flaggers are used, advance signing shall be erected as shown in the details or as specified in the MUTCD. Flaggers shall meet the requirements in the MUTCD in regard to character, training, attire, and behavior.
5. Trim-lines are the City's preferred channelizing device. Cones may not be used at nighttime.
6. Traffic control devices not in use or not applicable shall be either covered or removed from the work area.
7. The Contractor shall use barricades, street plates, or fencing as needed to effectively shield pedestrian and vehicular traffic from exposed objects, excavations, and construction activities.
8. Access shall be maintained to all driveways and side streets unless noted otherwise on the plans.
9. No street shall be closed without the approval of the City Traffic Engineer. The Contractor shall notify the City Traffic Engineer at least 7 days in advance of any street closure. If a detour route around the closure is to be provided, all detour signing shall be as shown on a plan approved by the City Traffic Engineer.
10. Construction vehicles parked along streets shall be located within the work area (traffic control) or where otherwise normally permitted. Construction materials, including traffic control and vehicles shall not restrict sight distance for vehicles exiting at streets or drives.
11. Construction materials shall be kept off of sidewalks, consolidated in one location within City right-of-way, and removed daily unless otherwise approved by the Inspector. Dirt, mud, and other construction debris on streets and sidewalks shall be removed immediately.
12. The Contractor shall not perform any work that will restrict vehicular traffic in any way between the hours of 7:00 a.m. and 9:00 a.m. or 4:00 p.m. and 6:00 p.m. Monday through Friday unless otherwise indicated in the specifications.
13. All travel lanes should be at least 11 feet wide unless otherwise authorized by the City Traffic Engineer. A "Narrow Lanes" sign shall be installed in advance of a lane width reduction to less than 11 feet.
14. All edge drop-offs of more than 2 inches and less than 4 inches should be protected by a wedge or barrier and all edge drop-offs greater than 4 inches shall have edge protection (see Traffic Control Specifications for edge treatment requirements).
15. The "Workers" symbolic sign (MUTCD No. W21-1a) may be used instead of the "Road Work Ahead" sign for work with a duration of 12 hours or less. The "End Road Work" sign is not required to be installed after the "Workers" sign.
16. No traffic signal shall be altered or modified in any way without a plan approved by the City Traffic Engineer.
17. The Contractor shall be responsible for maintaining all traffic control devices on an around-the-clock basis, whether or not work is actively being pursued and any deficiencies noted shall be corrected immediately.
18. The traffic control requirements shown on these plans are minimum requirements only and do not attempt to address in depth the variety of situations that may occur once construction has started. In no way do the requirements shown on these plans relieve the Contractor of his responsibility for selecting the proper traffic control devices and implementation procedures that will assure the safety of drivers, pedestrians, and workers at all times.
19. Should the contractor fail to enforce the traffic control plan or fail to clean, replace or otherwise maintain the traffic control devices when directed to do so by the City Traffic Engineer or representative, the City may take one or more of the following actions:
 - A) Employ another agency to correct deficiencies in traffic control devices and deduct the cost from the Contractor's pay estimate,
 - B) Stop the work until deficiencies are corrected,
 - C) Suspend all pay estimates until deficiencies are corrected, or
 - D) Place the Contractor in default.



CHANNELIZERS

NOTE: White Bands On Barricades and Channelizers Shall Be Made From High Intensity Sheeting Material.

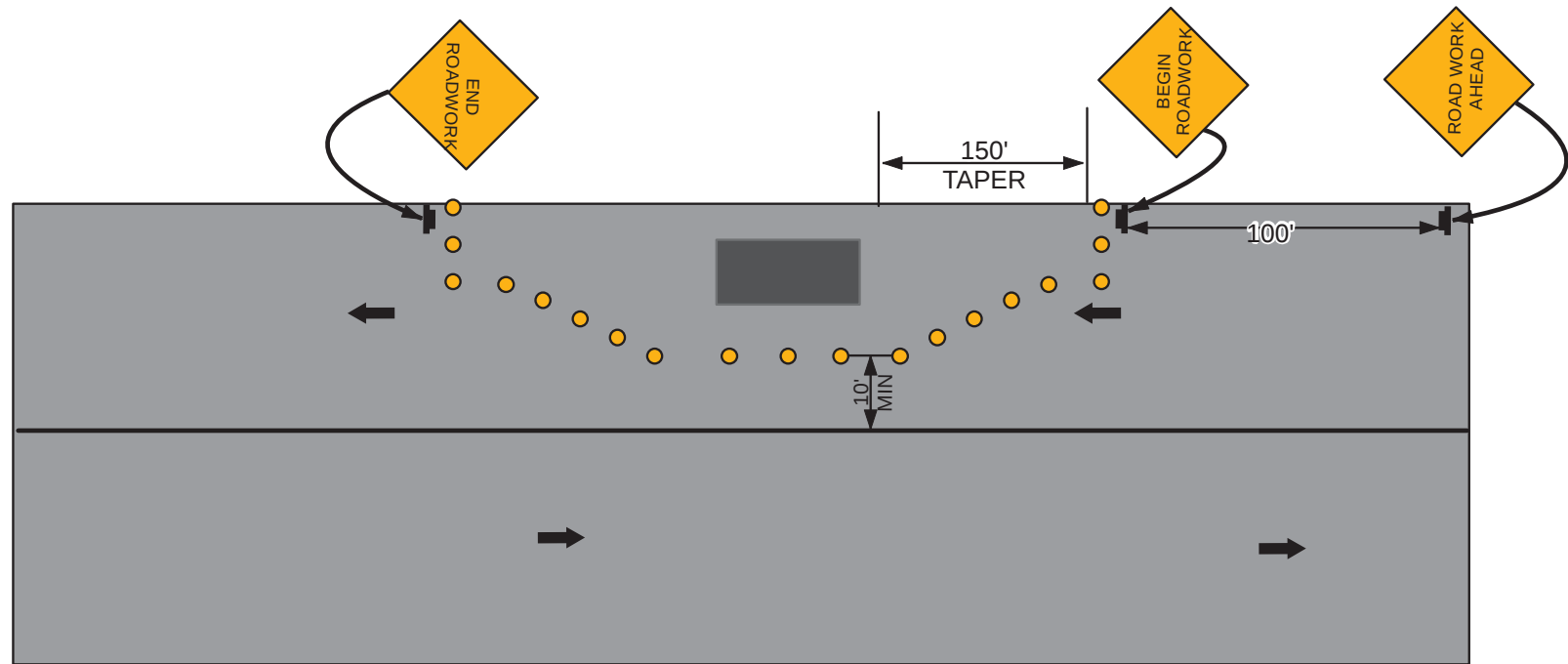


ARROW PANEL

BARRICADES



TRAFFIC CONTROL ALONG ROADS



Legend

- CONSTRUCTION VEHICLE
- CONE PLACEMENT
- SIGNAGE PLACEMENT

SIGNS AND CONES
MOVE AS WORK
PROGRESSES



Ervin Cable Construction, LLC

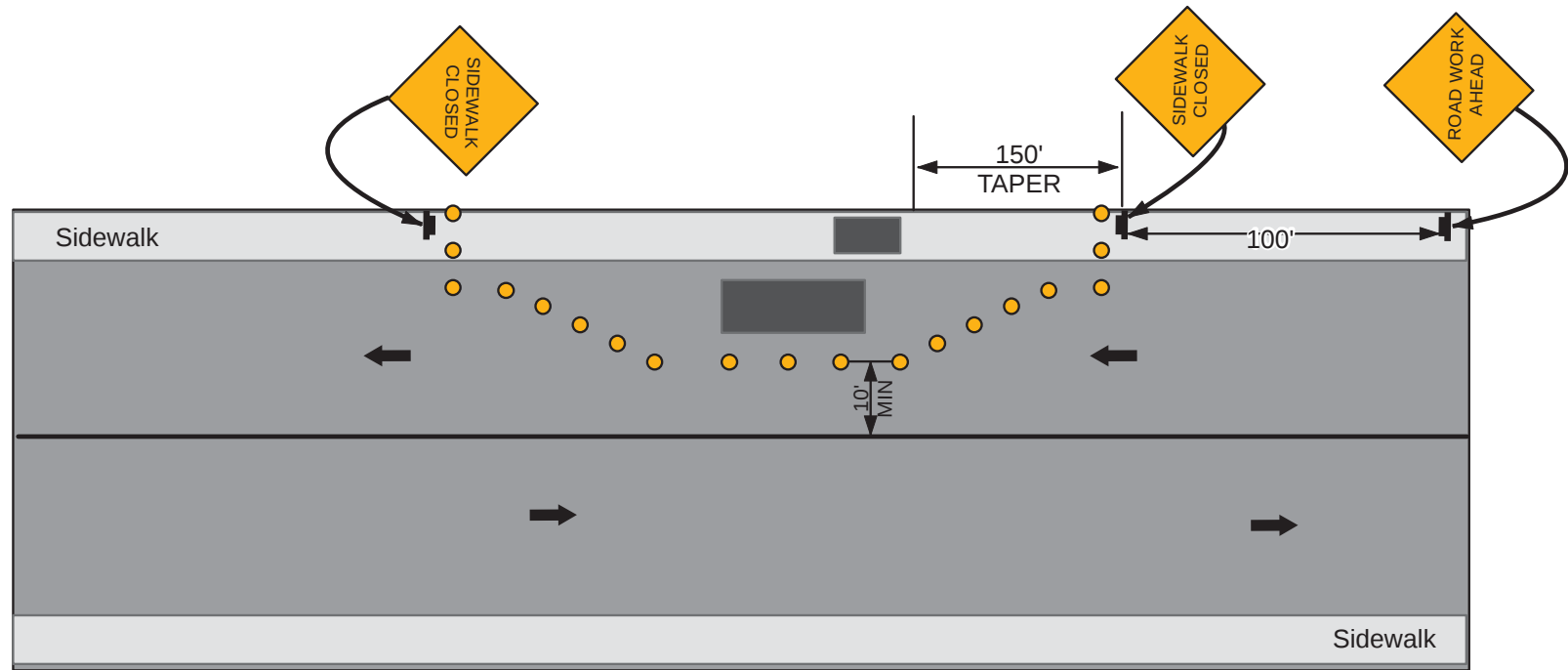
Bethany Wilson

bethany.wilson@ervincable.com

(913) 238-0403



TRAFFIC CONTROL ALONG ROADS WITH SIDEWALKS



Ervin Cable Construction, LLC

Bethany Wilson

bethany.wilson@ervincable.com

(913) 238-0403

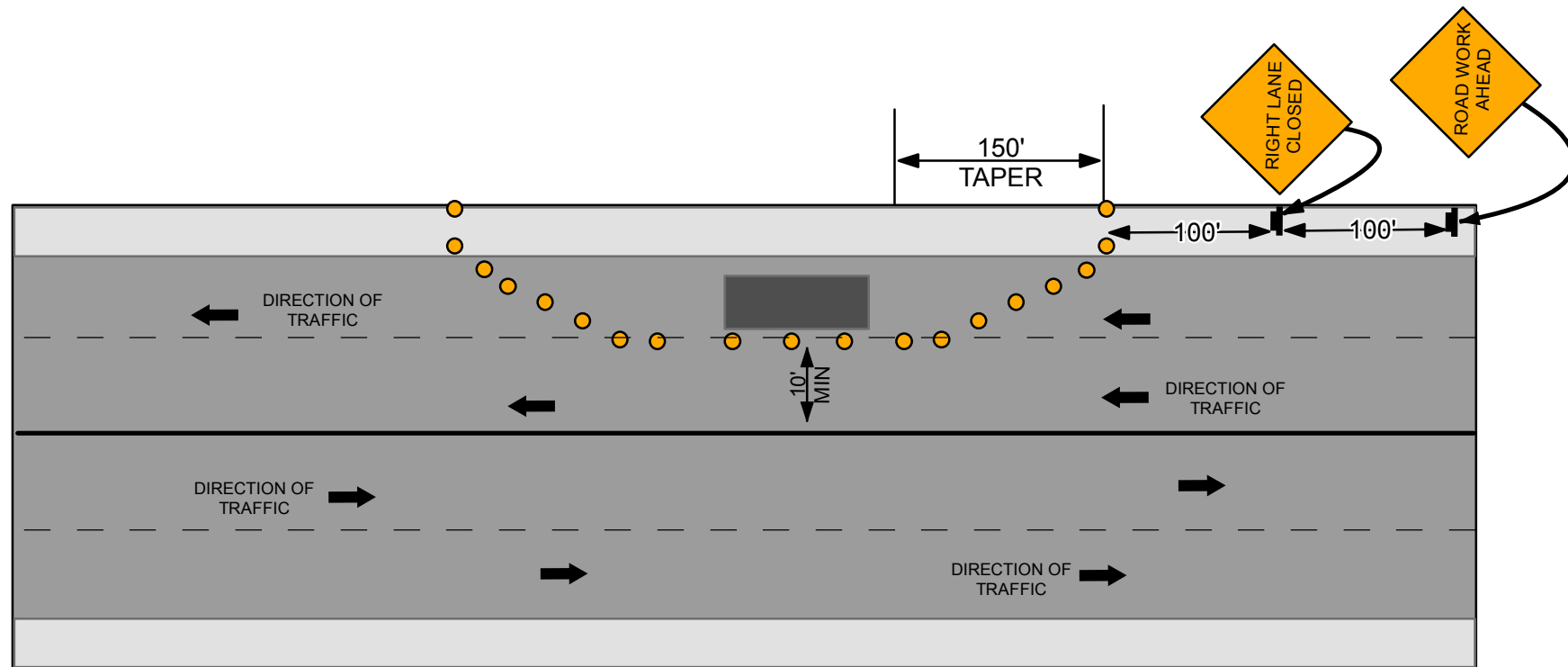
Legend

-  CONSTRUCTION VEHICLE
-  CONE PLACEMENT
-  SIGNAGE PLACEMENT

SIGNS AND CONES
MOVE AS WORK
PROGRESSES



TRAFFIC CONTROL ALONG ROADS



NOT TO SCALE



Ervin Cable Construction, LLC
Bethany Wilson
bethany.wilson@ervincable.com
(913) 238-0403

Legend

- CONSTRUCTION VEHICLE
- CONE PLACEMENT
- SIGNAGE PLACEMENT

SIGNS AND CONES
MOVE AS WORK
PROGRESSES