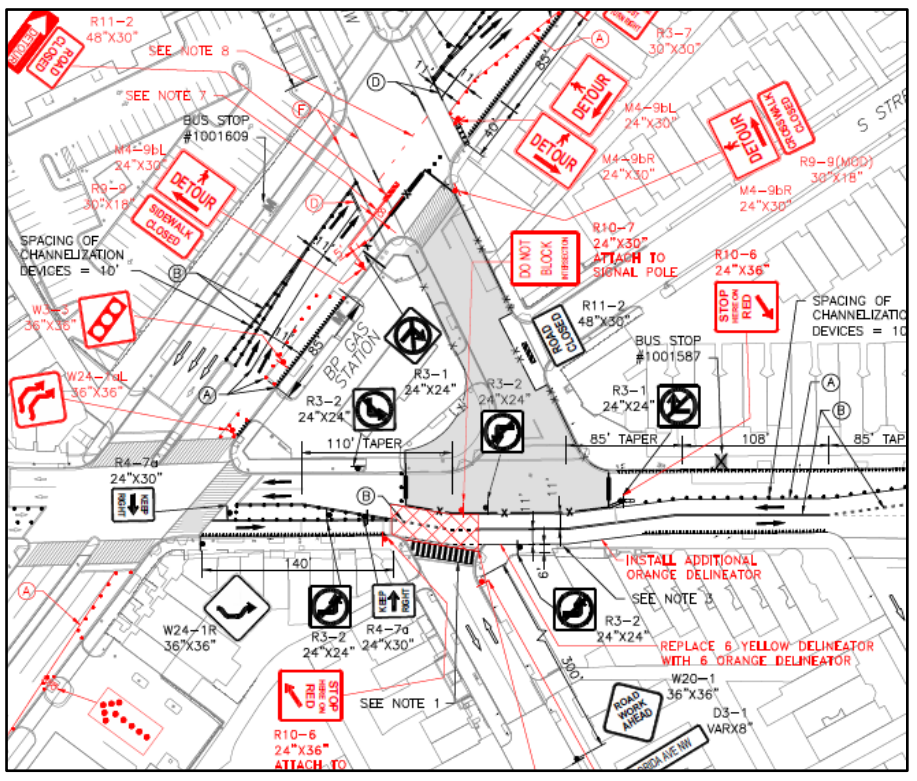
District Department of Transportation

Safe Accommodations for Pedestrians and Cyclists In Construction Work Zones

January 2023



Safe Accommodations for Pedestrians and Cyclists During Construction
Sample Scenarios

Safe Accommodations for Pedestrians During Construction

Scenario No	Description	Work Zone Location	Sidewalk Closure	Detour Location	Presence of Parking Lane	Presence of Bike Lane
P 1 / WZ 1	Mid-Block Work Zone with Full Sidewalk Closure	Mid-Block*	Full	Parking Lane at Street Level	Yes	Yes
P 1 / WZ 2	Mid-Block Work Zone with Partial Sidewalk Closure	Mid-Block*	Partial	Existing Sidewalk	Yes	Yes
P 2 / WZ 1	Far-Side Work Zone with Sidewalk Closure	Far-Side	Full	Parking Lane at Street Level	Yes	Yes
P 2 / WZ 2	Near-Side Work Zone with Sidewalk Closure	Near-Side	Full	Parking Lane at Street Level	Yes	Yes
P 3 / WZ 1	Mid-Block Work Zone with Full Sidewalk Closure	Mid-Block*	Full	Parking Lane at Curb Level	Yes	Yes
P 3 / WZ 2	Mid-Block Work Zone with Partial Sidewalk Closure	Mid-Block*	Partial	Existing Sidewalk	Yes	Yes

* Mid-Block, where the work zone is 100 feet or more beyond or before an intersection

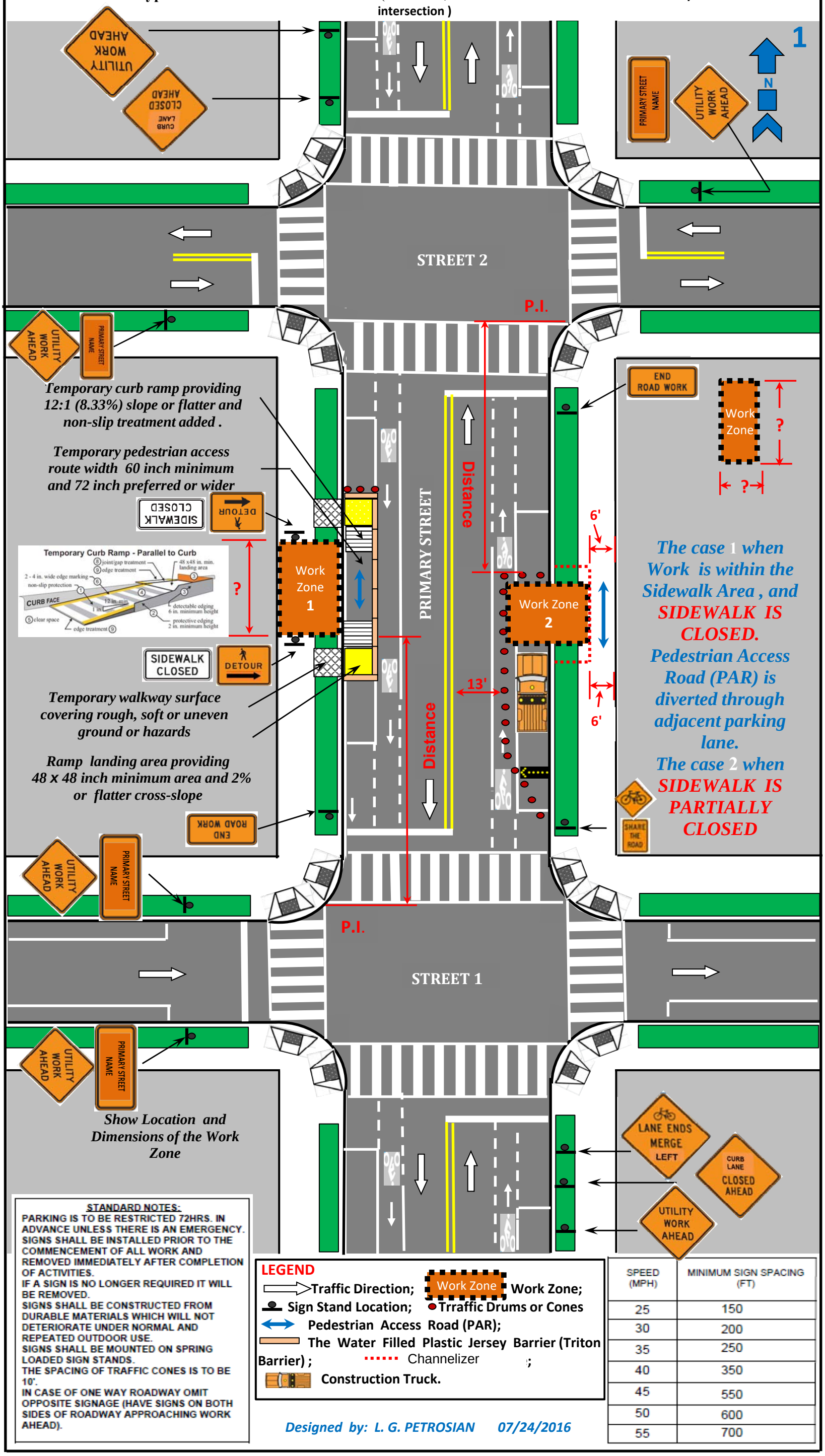
Safe Accommodations for Cyclists During Construction

Scenario No	Description	Work Zone Location	No of Travel Lanes	Detour Location	Presence of Parking Lane
1	Mid-Block Work Zone, Bicycle traffc diveted through adjacent travel lane	Mid-Block*	2, min	Adjacent Travel Lane	No
2	Far-Side Work Zone, Bicycle traffc diveted through adjacent travel lane	Far-Side	2, min	Adjacent Travel Lane	No
3	Near-Side Work Zone, Bicycle traffc diveted through adjacent travel lane	Near-Side	2, min	Adjacent Travel Lane	No
4	Mid-Block Work Zone, Bicycle traffc diveted through parking lane	Mid-Block*	1, min	Adjacent Parking Lane	Yes
5	Far-Side Work Zone, Bicycle traffc diveted through parking lane	Far-Side	1, min	Adjacent Parking Lane	Yes
6	Near-Side Work Zone, Bicycle traffc diveted through parking lane	Near-Side	1, min	Adjacent Parking Lane	Yes
7 / WZ 1	Far-Side Work Zone, with minor encroachment on bike lane	Far-Side	1, min	None	Yes
7 / WZ 2	Mid-Block Work Zone, with minor encroachment on bike lane	Mid-Block*	1, min	None	Yes
8	Mid-Block Work Zone, with contraflow bike lane closure	Mid-Block*	1, min	Travel & Parking Lanes are utilized	Yes
9	Far-Side Work Zone, with contraflow bike lane closure	Far-Side	1, min	Travel & Parking Lanes are utilized	Yes
10	Near-Side Work Zone, with contraflow bike lane closure	Near-Side	1, min	Travel & Parking Lanes are utilized	Yes
11	Mid-Block Work Zone, with contraflow bike lane diverted to parking lane	Mid-Block*	1, min	Adjacent Parking Lane	Yes
12	Near-Side Work Zone, with contraflow bike lane diverted to parking lane	Near-Side	1, min	Adjacent Parking Lane	Yes
13	Far-Side Work Zone, with contraflow bike lane diverted to parking lane	Far-Side	1, min	Adjacent Parking Lane	Yes
14	Far-Side Work Zone, with protected bike lane closure	Far-Side	2, min	Adjacent Travel Lane	No
15	Mid-Block Work Zone, with protected bike lane closure	Mid-Block*	2, min	Adjacent Travel Lane	No
6*	Near-Side Work Zone, with bicycle cycle track closure	Near-Side	2, min	Adjacent Travel Lane	Yes / No
6**	Emergency Work Zone ONLY -- Near-Side Work Zone, with bicycle cycle track closure	Near-Side	2, min	Adjacent Travel Lane	Yes / No
5*	Far-Side Work Zone, with bicycle cycle track closure	Far-Side	2, min	Adjacent Travel Lane	Yes / No
4*	Mid-Block Work Zone, with bicycle cycle track closure	Mid-Block*	2, min	Adjacent Parking Lane	Yes
20	Mid-Block Work Zone, with unprotected bike lane closure	Mid-Block*	1, min	Adjacent Travel Lane	Yes
4**	MId-Block Work Zone, with bicycle cycle track closure	Mid-Block*	2, min	Adjacent Parking Lane	Yes

* Mid-Block, where the work zone is 100 feet or more beyond or before an intersection

Note: The following sample scenarios are provided to serve as a guide. Actual safe accommodations plans must be developed to fit the actual site conditions.

A Mid-block Typical TCP for Sidewalk Closure. (Mid-Block , where the Work Zone 100 feet or more beyond or before an intersection)



STANDARD NOTES:

PARKING IS TO BE RESTRICTED 72HRS. IN ADVANCE UNLESS THERE IS AN EMERGENCY.
SIGNS SHALL BE INSTALLED PRIOR TO THE COMMENCEMENT OF ALL WORK AND REMOVED IMMEDIATELY AFTER COMPLETION OF ACTIVITIES.
IF A SIGN IS NO LONGER REQUIRED IT WILL BE REMOVED.
SIGNS SHALL BE CONSTRUCTED FROM DURABLE MATERIALS WHICH WILL NOT DETERIORATE UNDER NORMAL AND REPEATED OUTDOOR USE.
SIGNS SHALL BE MOUNTED ON SPRING LOADED SIGN STANDS.
THE SPACING OF TRAFFIC CONES IS TO BE 10'.
IN CASE OF ONE WAY ROADWAY OMIT OPPOSITE SIGNAGE (HAVE SIGNS ON BOTH SIDES OF ROADWAY APPROACHING WORK AHEAD).

LEGEND

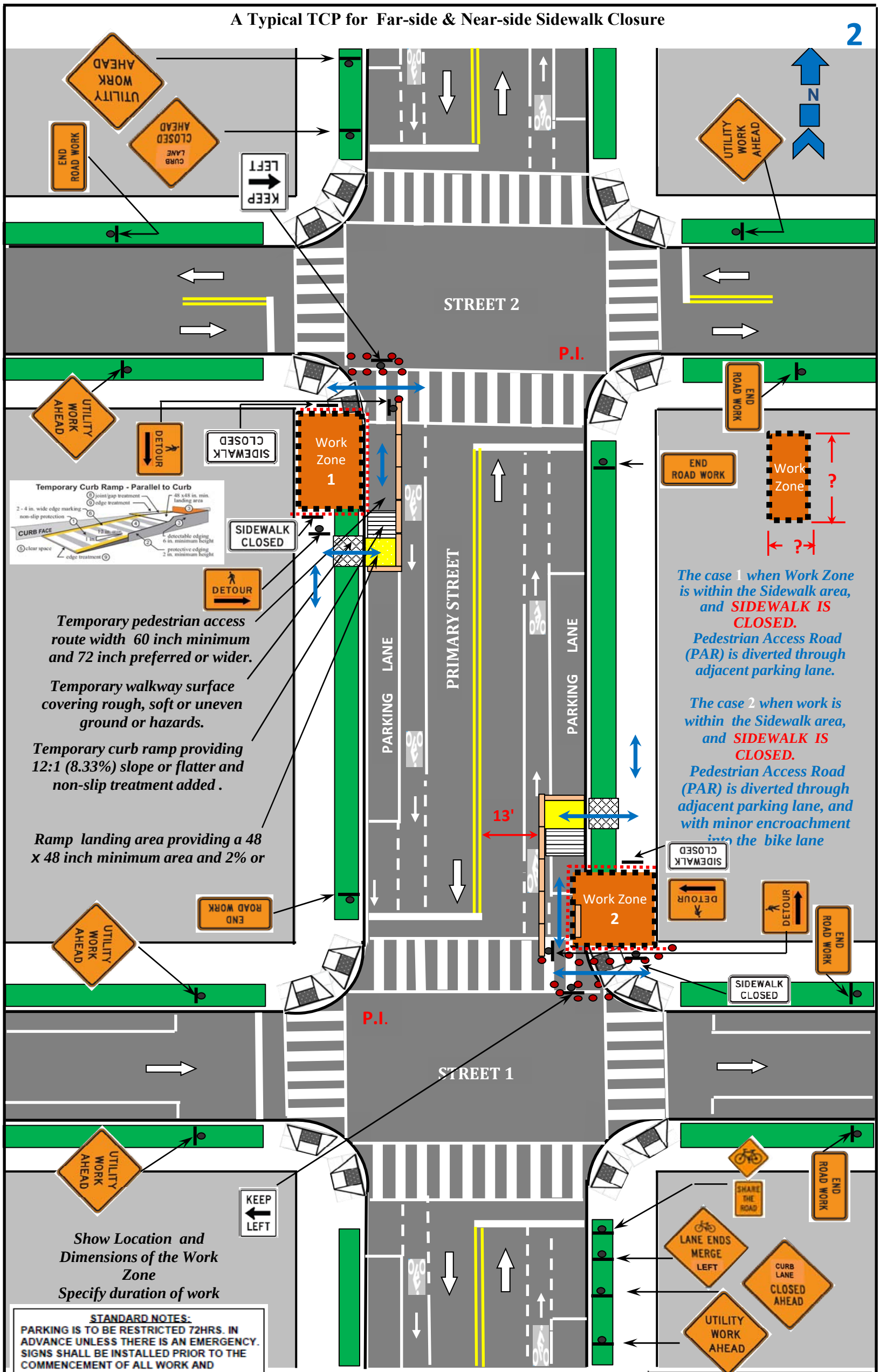
Traffic Direction; Work Zone; Work Zone;
Sign Stand Location; Trraffic Drums or Cones
Pedestrian Access Road (PAR);
The Water Filled Plastic Jersey Barrier (Triton Barrier) ; Channelizer ;
Construction Truck.

SPEED (MPH)	MINIMUM SIGN SPACING (FT)
25	150
30	200
35	250
40	350
45	550
50	600
55	700

Designed by: L. G. PETROSIAN 07/24/2016

A Typical TCP for Far-side & Near-side Sidewalk Closure

2



Temporary pedestrian access route width 60 inch minimum and 72 inch preferred or wider.

Temporary walkway surface covering rough, soft or uneven ground or hazards.

Temporary curb ramp providing 12:1 (8.33%) slope or flatter and non-slip treatment added .

Ramp landing area providing a 48 x 48 inch minimum area and 2% or

The case 1 when Work Zone is within the Sidewalk area, and SIDEWALK IS CLOSED. Pedestrian Access Road (PAR) is diverted through adjacent parking lane.

The case 2 when work is within the Sidewalk area, and SIDEWALK IS CLOSED. Pedestrian Access Road (PAR) is diverted through adjacent parking lane, and with minor encroachment into the bike lane

Show Location and Dimensions of the Work Zone
Specify duration of work

STANDARD NOTES:

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SIGNS SHALL BE MOUNTED ON SPRING LOADED SIGN STANDS.
THE SPACING OF TRAFFIC CONES IS TO BE 10'.
IN CASE OF ONE WAY ROADWAY OMIT OPPOSITE SIGNAGE (HAVE SIGNS ON BOTH SIDES OF ROADWAY APPROACHING WORK AHEAD).

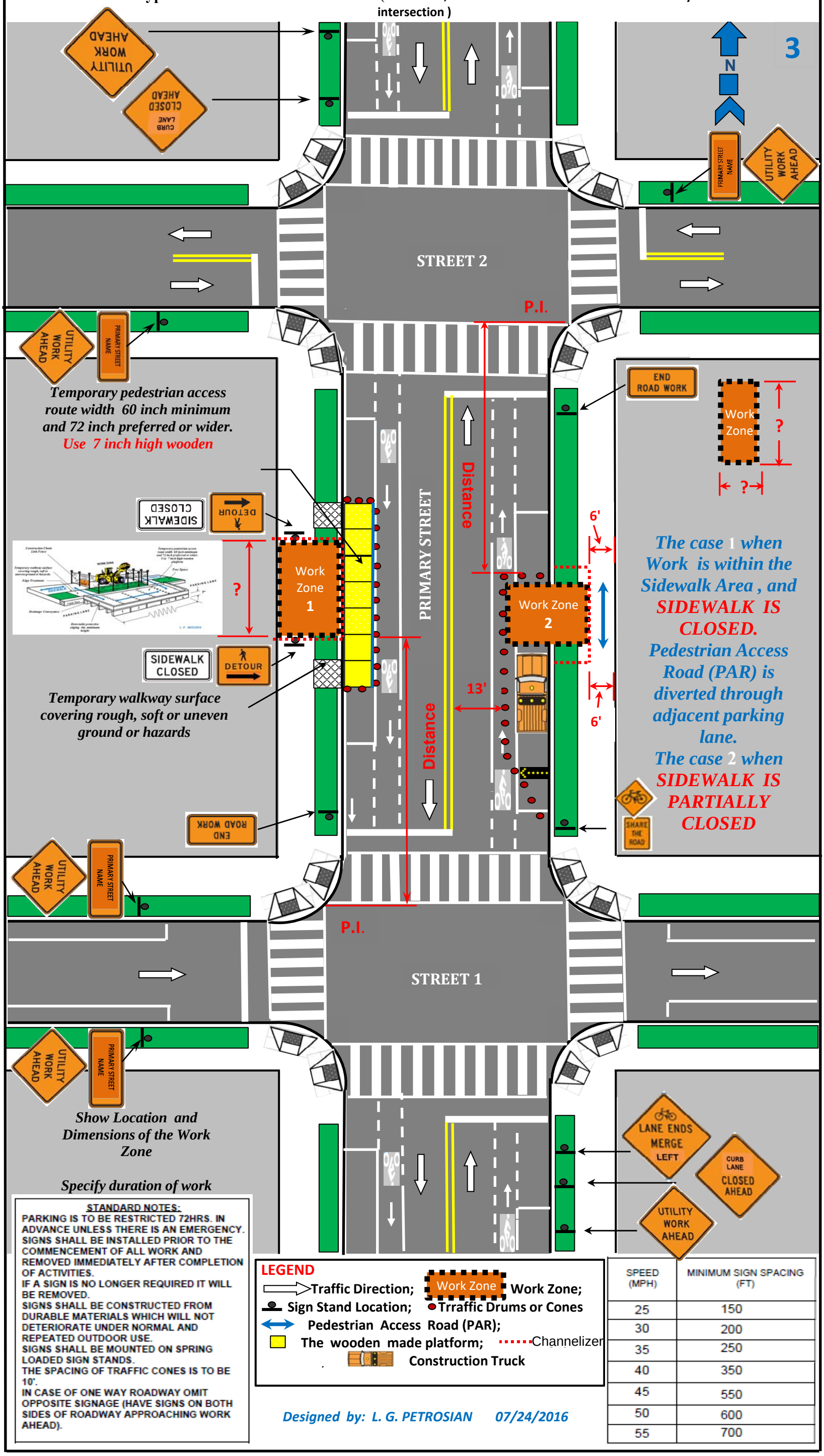
LEGEND

Traffic Direction; Work Zone; Work Zone;
Sign Stand Location; Traffic Drums or Cones;
Construction Truck ;
The Water Filled Plastic Jersey Barrier (Triton Barrier); Pedestrian Access Road (PAR); Channelizer

Designed by: L. G. PETROSIAN 07/24/2016

SPEED (MPH)	MINIMUM SIGN SPACING (FT)
25	150
30	200
35	250
40	350
45	550
50	600
55	700

A Mid-block Typical TCP for Sidewalk Closure. (Mid-Block , where the Work Zone 100 feet or more beyond or before an intersection)



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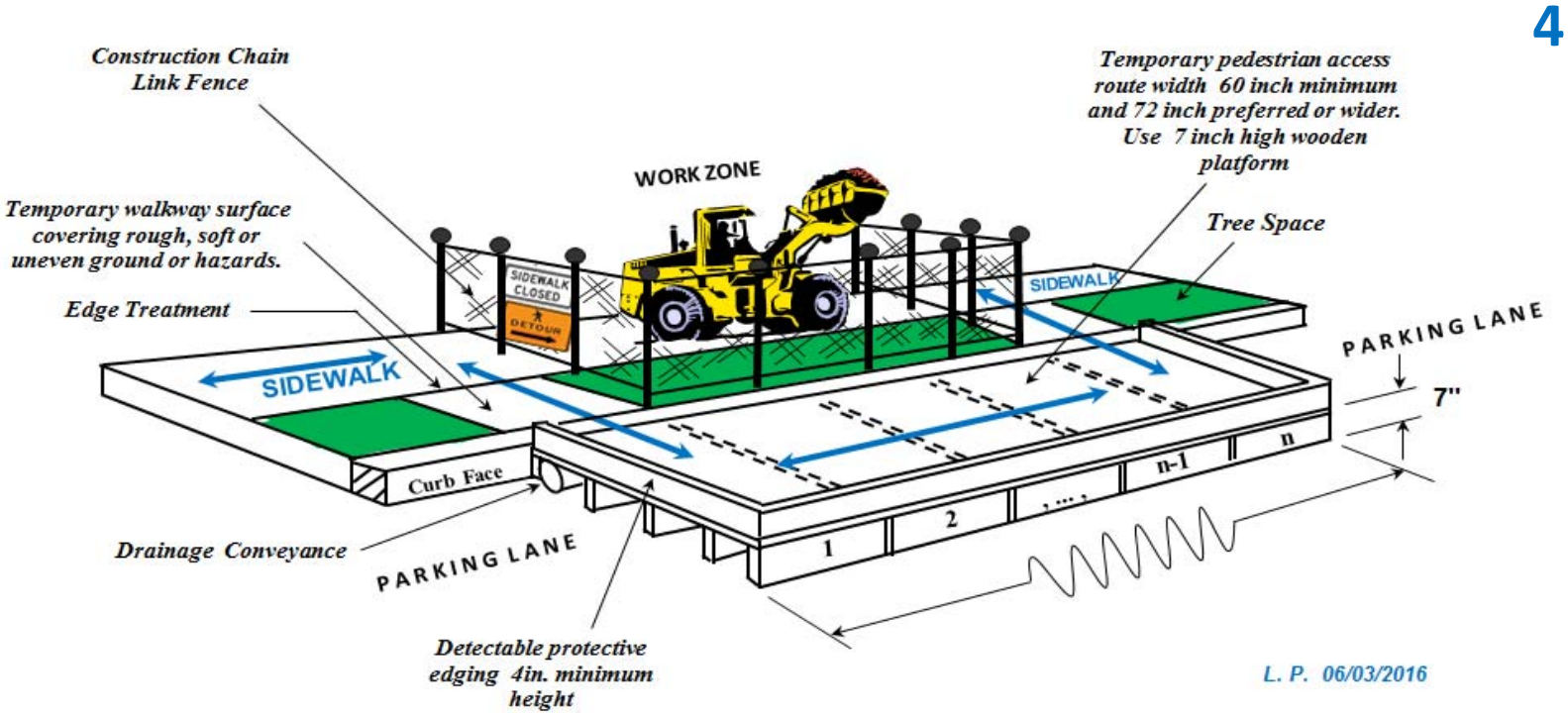
LEGEND

- Traffic Direction;
- Work Zone; Work Zone;
- Sign Stand Location;
- Trraffic Drums or Cones
- Pedestrian Access Road (PAR);
- The wooden made platform;
- Channelizer
- Construction Truck

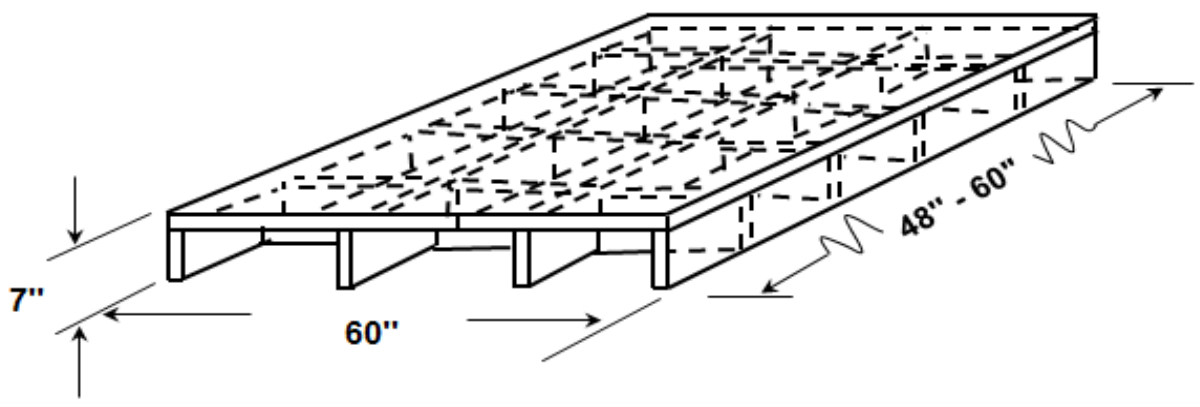
Designed by: L. G. PETROSIAN 07/24/2016

SPEED (MPH)	MINIMUM SIGN SPACING (FT)
25	150
30	200
35	250
40	350
45	550
50	600
55	700

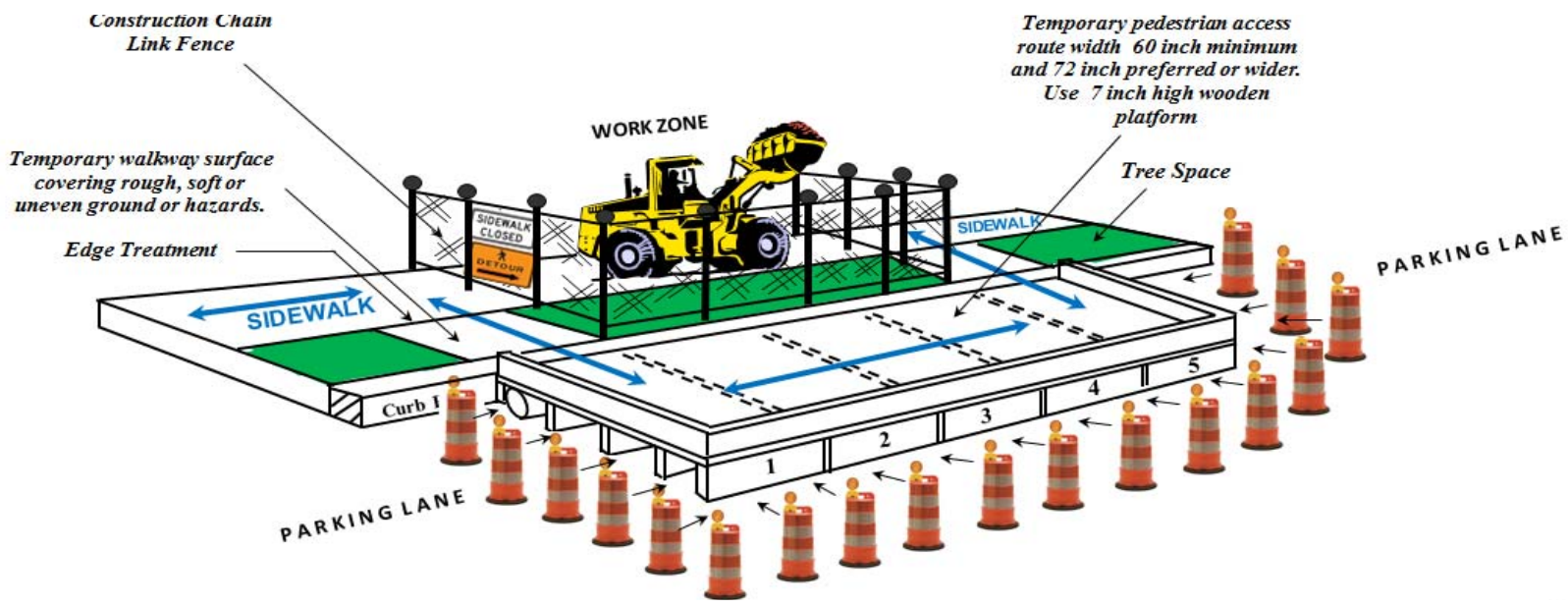
TEMPORARY PEDESTRIAN ACCESS ROAD (PAR) THROUGH PARKING LANE USING WOODEN PLATFORM



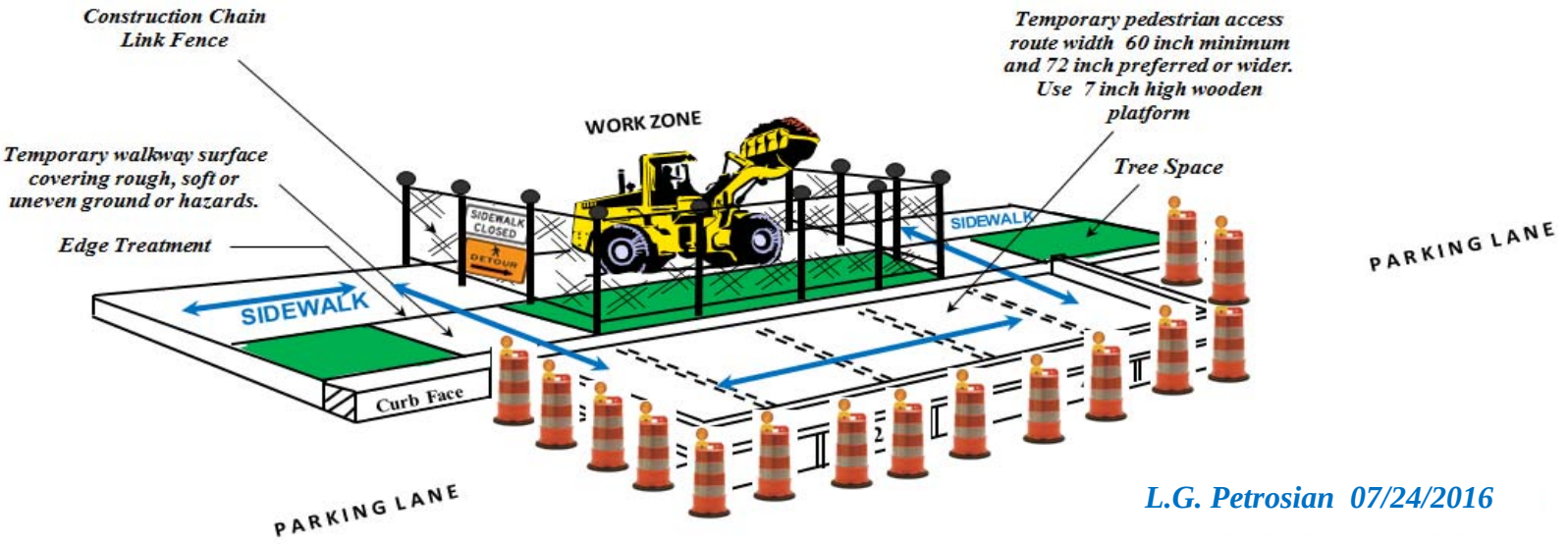
PLATFORM MODULE



TEMPORARY PEDESTRIAN ACCESS ROAD (PAR) THROUGH PARKING LANE USING WOODEN PLATFORM SURROUNDED BY TRAFFIC DRUMS



TEMPORARY PEDESTRIAN ACCESS ROAD (PAR) THROUGH PARKING LANE USING WOODEN PLATFORM SURROUNDED BY TRAFFIC DRUMS



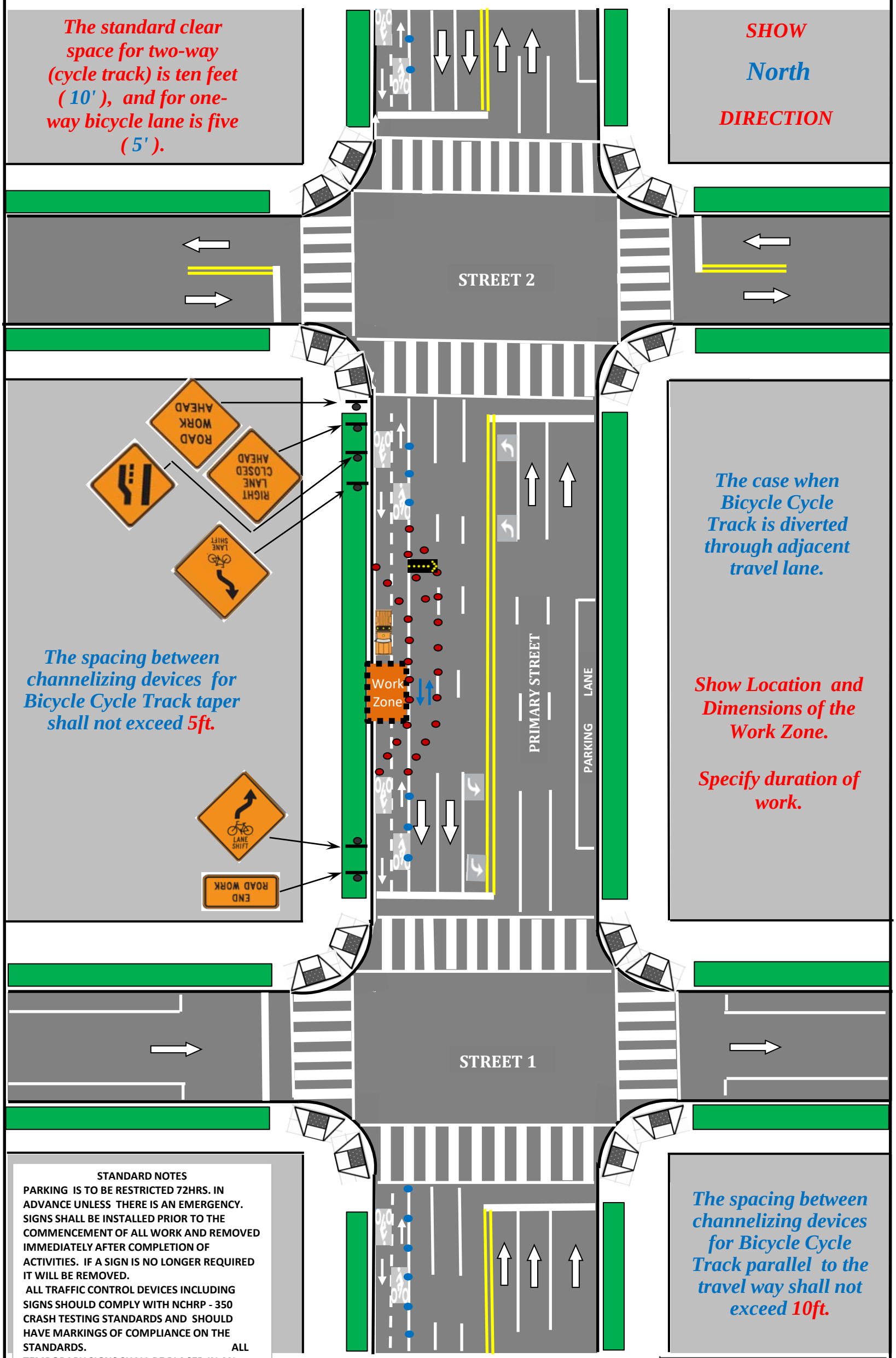
L.G. Petrosian 07/24/2016

A Typical Mid-block TCP for Bicycle Cycle Track Closure.

1

The standard clear space for two-way (cycle track) is ten feet (10'), and for one-way bicycle lane is five (5').

SHOW North DIRECTION



The case when Bicycle Cycle Track is diverted through adjacent travel lane.

The spacing between channelizing devices for Bicycle Cycle Track taper shall not exceed 5ft.

Show Location and Dimensions of the Work Zone.

Specify duration of work.

The spacing between channelizing devices for Bicycle Cycle Track parallel to the travel way shall not exceed 10ft.

STANDARD NOTES

PARKING IS TO BE RESTRICTED 72HRS. IN ADVANCE UNLESS THERE IS AN EMERGENCY. SIGNS SHALL BE INSTALLED PRIOR TO THE COMMENCEMENT OF ALL WORK AND REMOVED IMMEDIATELY AFTER COMPLETION OF ACTIVITIES. IF A SIGN IS NO LONGER REQUIRED IT WILL BE REMOVED.

ALL TRAFFIC CONTROL DEVICES INCLUDING SIGNS SHOULD COMPLY WITH NCHRP - 350 CRASH TESTING STANDARDS AND SHOULD HAVE MARKINGS OF COMPLIANCE ON THE STANDARDS. ALL TEMPORARY SIGNS SHALL BE PLACED IN AN APPROPRIATE PLACES, BE ADEQUATE FOR EXISTING STREET CONDITIONS, INCLUDING SIGN DIMENSIONS, AND BE STABLE AND FIRMLY INSTALLED. (The small size of warning signs may be used wherever necessary for providing adequate and safe access for pedestrians within public space).

THE SPACING OF TRAFFIC CONES IS TO BE A MAXIMUM OF 10 '(Ft.).

IN CASE OF ONE WAY ROADWAY OMIT OPPOSITE SIGNAGE (HAVE SIGNS ON BOTH SIDES OF ROADWAY APPROACHING WORK AHEAD).

(Mid-Block , where the Work Zone 100 feet or more from an intersection)

LEGEND

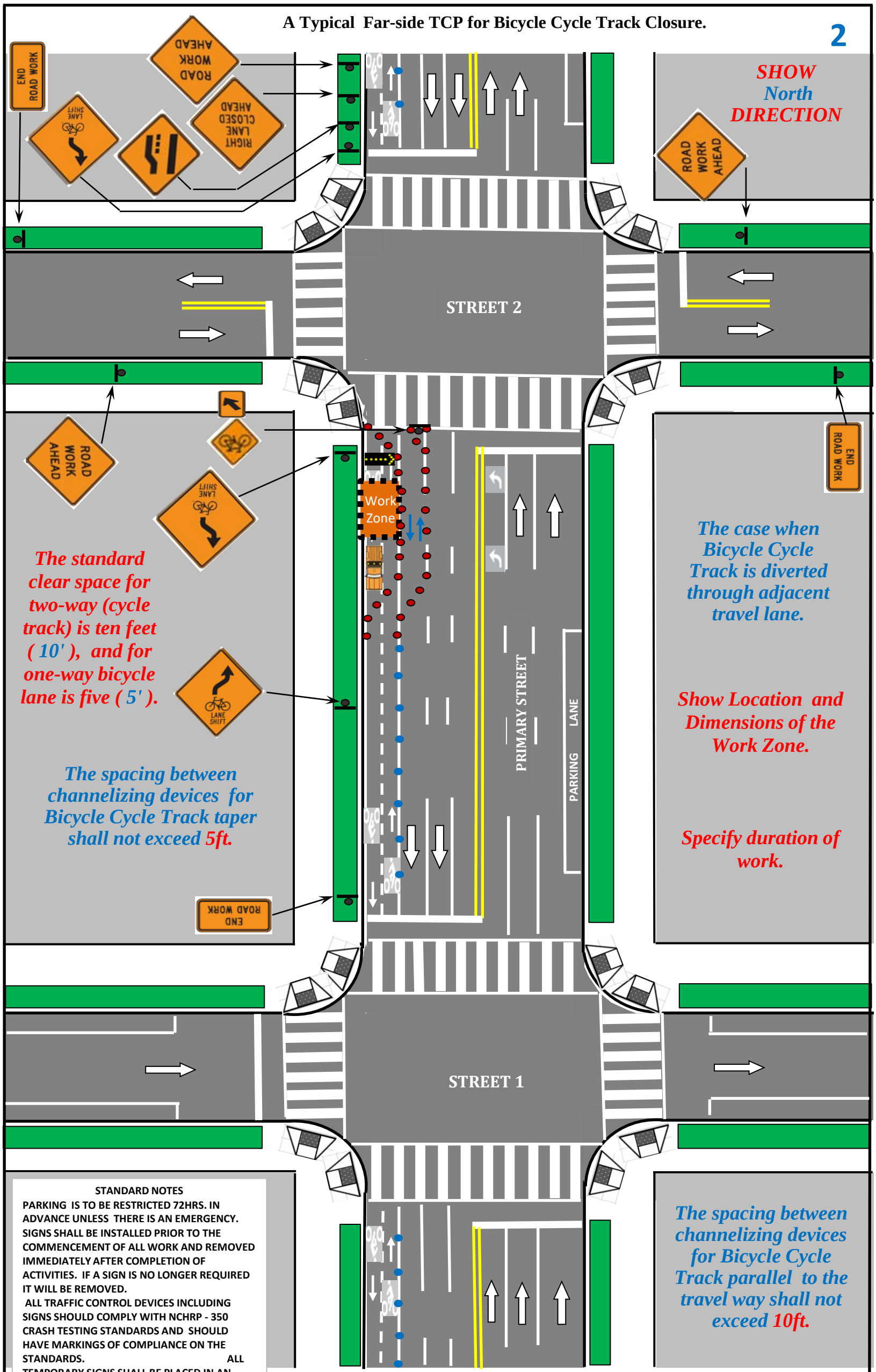
- Traffic Direction;
- Work Zone; Work Zone;
- Sign Stand Location;
- Traffic Drums or Cones;
- Arrow Board ;
- Construction Truck;
- Retroreflective Delineators (For typical protected bike lanes);
- Temp bicycle direction.

Designed by: L. G. PETROSIAN 04/24/2017

SPEED (MPH)	MINIMUM SIGN SPACING (FT)
25	150
30	200
35	250
40	350
45	550
50	600
55	700

A Typical Far-side TCP for Bicycle Cycle Track Closure.

2



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The spacing between channelizing devices for Bicycle Cycle Track taper shall not exceed 5ft.

The case when Bicycle Cycle Track is diverted through adjacent travel lane.

Show Location and Dimensions of the Work Zone.

Specify duration of work.

The spacing between channelizing devices for Bicycle Cycle Track parallel to the travel way shall not exceed 10ft.

STANDARD NOTES

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IN CASE OF ONE WAY ROADWAY OMIT OPPOSITE SIGNAGE (HAVE SIGNS ON BOTH SIDES OF ROADWAY APPROACHING WORK AHEAD).

(Far-side , where the Work Zone less than 100' feet after an intersection)

LEGEND

- Traffic Direction; Work Zone; Work Zone;
- Sign Stand Location;
- Traffic Drums or Cones; Arrow Board ;
- Construction Truck;
- Retroreflective Delineators (For typical protected bike lanes); Temp bicycle direction.

Designed by: L. G. PETROSIAN 04/24/2017

SPEED (MPH)	MINIMUM SIGN SPACING (FT)
25	150
30	200
35	250
40	350
45	550
50	600
55	700

A Typical Near-Side TCP for Bicycle Cycle Track Closure.

3

The standard clear space for two-way (cycle track) is ten feet (10'), and for one-way bicycle lane is five (5').

SHOW

North

DIRECTION

STREET 2

ROAD WORK AHEAD

RIGHT LANE CLOSED AHEAD

LANE SHIFT

LANE SHIFT

(OPTIONAL)

Work Zone

PRIMARY STREET

PARKING LANE

The case when Bicycle Cycle Track is diverted through adjacent travel lane.

Show Location and Dimensions of the Work Zone.

Specify duration of work.

The spacing between channelizing devices for Bicycle Cycle Track parallel to the travel way shall not exceed 10ft.

STREET 1

STANDARD NOTES

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THE SPACING OF TRAFFIC CONES IS TO BE A MAXIMUM OF 10 '(Ft.).

IN CASE OF ONE WAY ROADWAY OMIT OPPOSITE SIGNAGE (HAVE SIGNS ON BOTH SIDES OF ROADWAY APPROACHING WORK AHEAD).

LANE SHIFT

END ROAD WORK

The spacing between channelizing devices for Bicycle Cycle Track taper shall not exceed 5ft.

(Near-side, where the Work Zone less than 100' before an intersection)

LEGEND

Traffic Direction; Work Zone; Work Zone;

Sign Stand Location;

Traffic Drums or Cones; Arrow Board ;

Construction Truck;

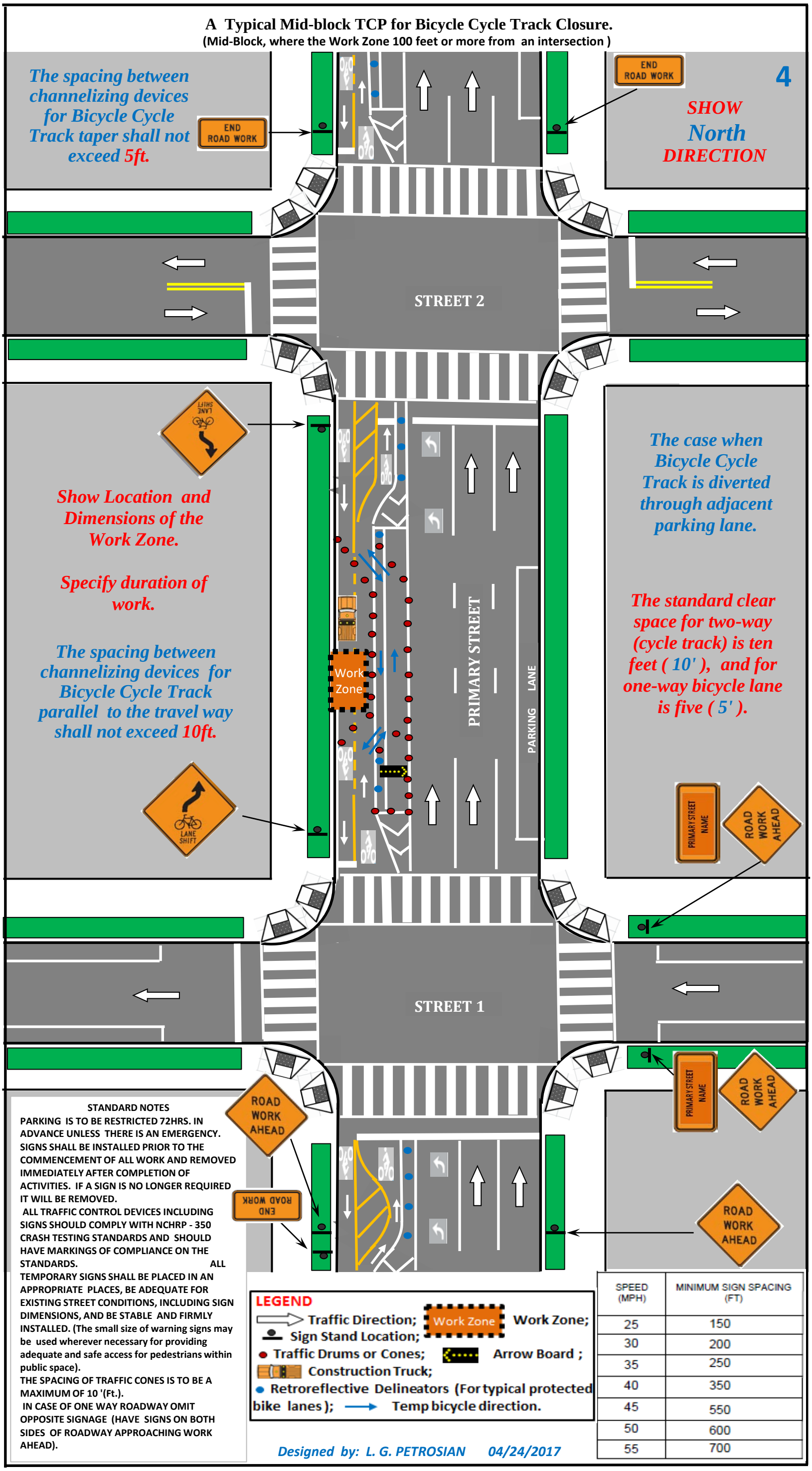
Retroreflective Delineators (For typical protected bike lanes); Temp bicycle direction.

Designed by: L. G. PETROSIAN 04/24/2017

SPEED (MPH)	MINIMUM SIGN SPACING (FT)
25	150
30	200
35	250
40	350
45	550
50	600
55	700

A Typical Mid-block TCP for Bicycle Cycle Track Closure.

(Mid-Block, where the Work Zone 100 feet or more from an intersection)



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IN CASE OF ONE WAY ROADWAY OMIT OPPOSITE SIGNAGE (HAVE SIGNS ON BOTH SIDES OF ROADWAY APPROACHING WORK AHEAD).

LEGEND

Traffic Direction; Work Zone; Work Zone;
Sign Stand Location;
Traffic Drums or Cones; Arrow Board ;
Construction Truck;
Retroreflective Delineators (For typical protected bike lanes); Temp bicycle direction.

SPEED (MPH)	MINIMUM SIGN SPACING (FT)
25	150
30	200
35	250
40	350
45	550
50	600
55	700

Designed by: L. G. PETROSIAN 04/24/2017

A Typical Far-side TCP for Bicycle Cycle Track Closure.

The spacing between channelizing devices for Bicycle Cycle Track taper shall not exceed 5ft.

END ROAD WORK

END ROAD WORK

SHOW North DIRECTION

STREET 2

Show Location and Dimensions of the Work Zone.

Specify duration of work.

LANE SHIFT

(OPTIONAL)

LANE SHIFT

Work Zone

PARKING LANE

PRIMARY STREET

PARKING LANE

The case when Bicycle Cycle Track is diverted through adjacent parking lane.

The standard clear space for two-way (cycle track) is ten feet (10'), and for one-way bicycle lane is five (5').

The spacing between channelizing devices for Bicycle Cycle Track parallel to the travel way shall not exceed 10ft.

KEEP RIGHT

PRIMARY STREET NAME

ROAD WORK AHEAD

STREET 1

LANE SHIFT

ROAD WORK AHEAD

END ROAD WORK

LANE SHIFT

(OPTIONAL)

ROAD WORK AHEAD

STANDARD NOTES

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IN CASE OF ONE WAY ROADWAY OMIT OPPOSITE SIGNAGE (HAVE SIGNS ON BOTH SIDES OF ROADWAY APPROACHING WORK AHEAD).

(Far-side, where the Work Zone less than 100' after an intersection)

LEGEND

Traffic Direction; Work Zone; Work Zone;

Sign Stand Location;

Traffic Drums or Cones; Arrow Board ;

Construction Truck;

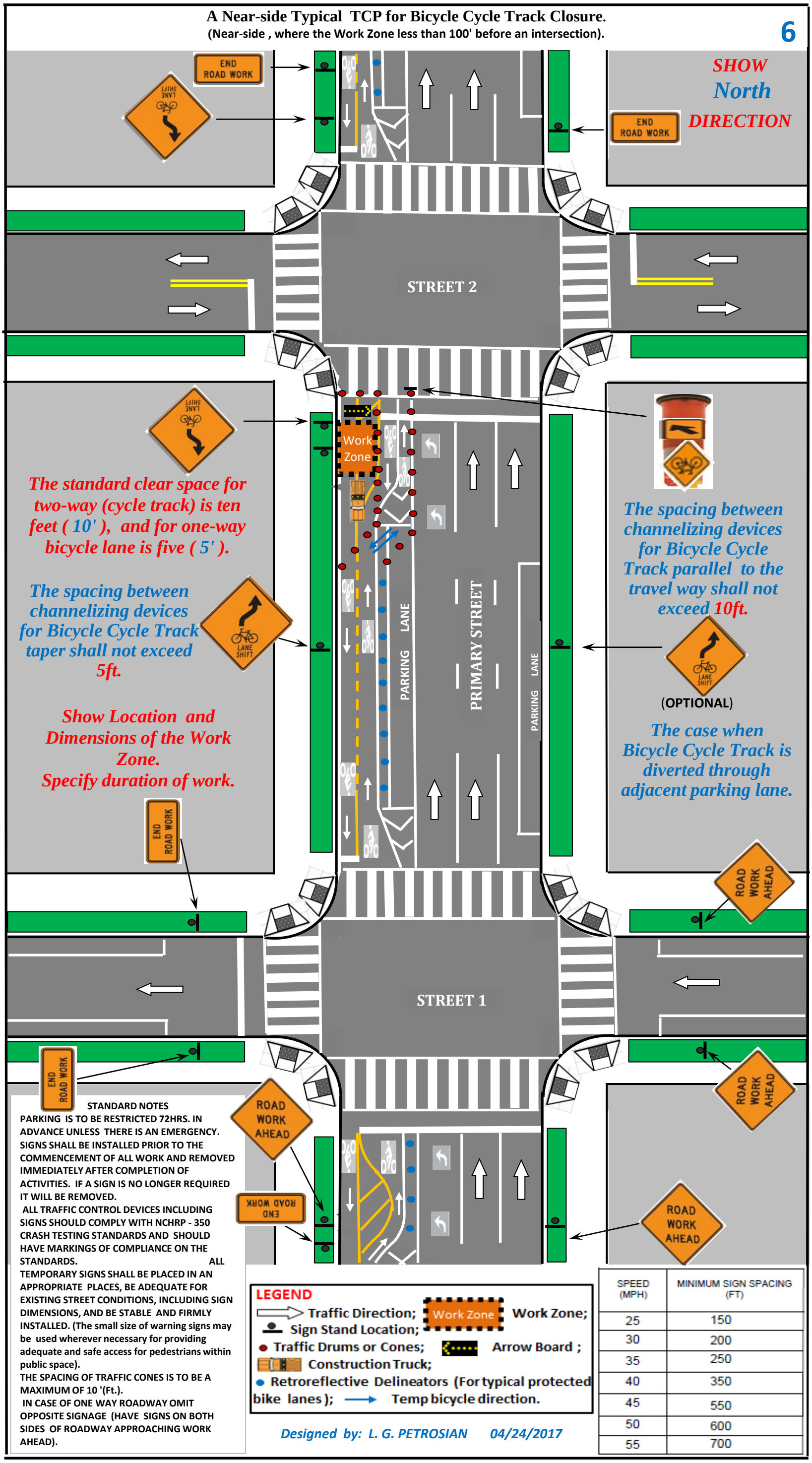
Retroreflective Delineators (For typical protected bike lanes); Temp bicycle direction.

Designed by: L. G. PETROSIAN 04/24/2017

SPEED (MPH)	MINIMUM SIGN SPACING (FT)
25	150
30	200
35	250
40	350
45	550
50	600
55	700

A Near-side Typical TCP for Bicycle Cycle Track Closure.

(Near-side , where the Work Zone less than 100' before an intersection).



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The spacing between channelizing devices for Bicycle Cycle Track taper shall not exceed 5ft.

Show Location and Dimensions of the Work Zone.
Specify duration of work.

The spacing between channelizing devices for Bicycle Cycle Track parallel to the travel way shall not exceed 10ft.

The case when Bicycle Cycle Track is diverted through adjacent parking lane.

STANDARD NOTES

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LEGEND

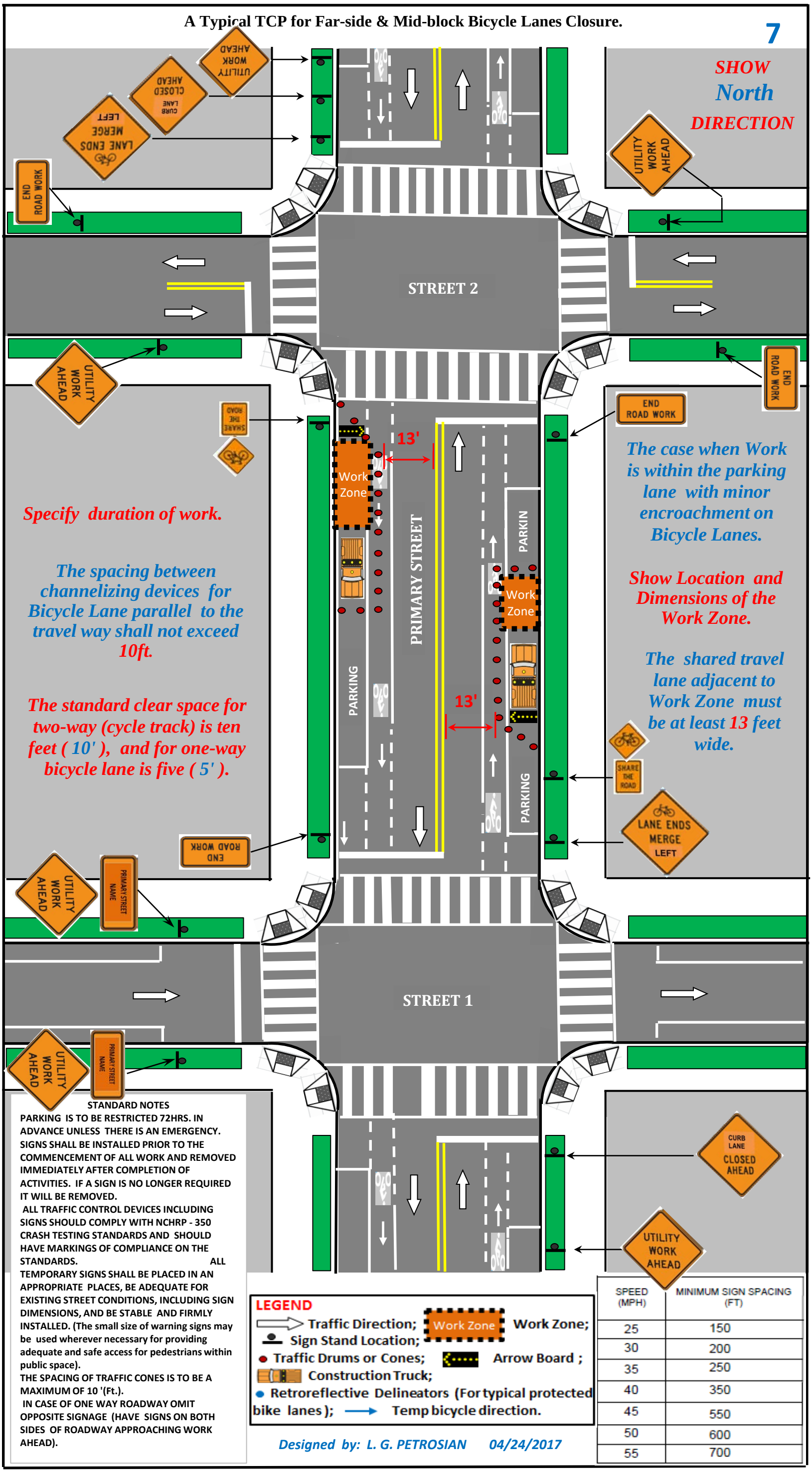
Traffic Direction; Work Zone; Work Zone;
Sign Stand Location;
Traffic Drums or Cones; Arrow Board ;
Construction Truck;
Retroreflective Delineators (For typical protected bike lanes); Temp bicycle direction.

Designed by: L. G. PETROSIAN 04/24/2017

SPEED (MPH)	MINIMUM SIGN SPACING (FT)
25	150
30	200
35	250
40	350
45	550
50	600
55	700

A Typical TCP for Far-side & Mid-block Bicycle Lanes Closure.

7



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ALL TRAFFIC CONTROL DEVICES INCLUDING SIGNS SHOULD COMPLY WITH NCHRP - 350 CRASH TESTING STANDARDS AND SHOULD HAVE MARKINGS OF COMPLIANCE ON THE STANDARDS. ALL TEMPORARY SIGNS SHALL BE PLACED IN AN APPROPRIATE PLACES, BE ADEQUATE FOR EXISTING STREET CONDITIONS, INCLUDING SIGN DIMENSIONS, AND BE STABLE AND FIRMLY INSTALLED. (The small size of warning signs may be used wherever necessary for providing adequate and safe access for pedestrians within public space).

THE SPACING OF TRAFFIC CONES IS TO BE A MAXIMUM OF 10 '(Ft.).

IN CASE OF ONE WAY ROADWAY OMIT OPPOSITE SIGNAGE (HAVE SIGNS ON BOTH SIDES OF ROADWAY APPROACHING WORK AHEAD).

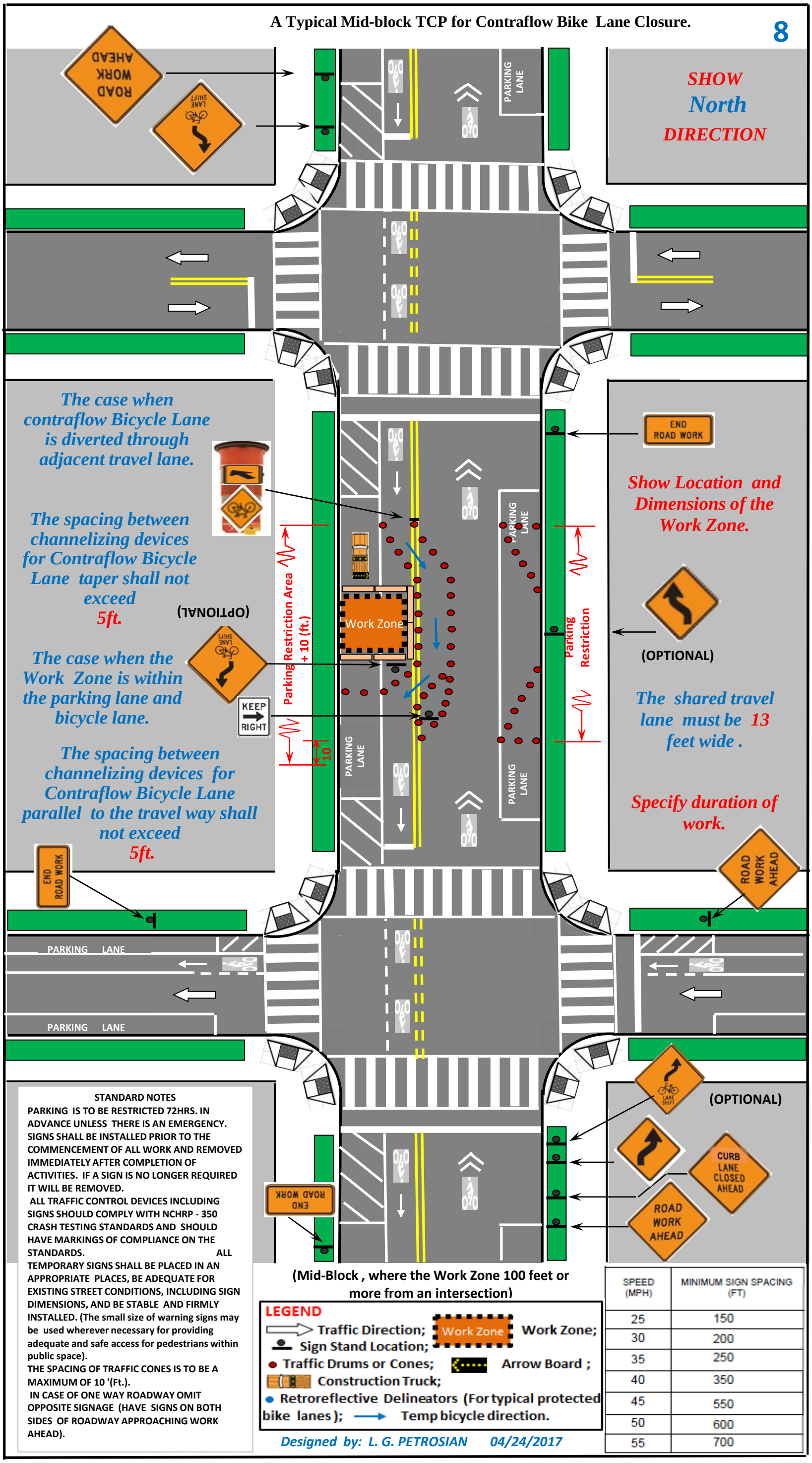
LEGEND

Traffic Direction; Work Zone; Work Zone;
Sign Stand Location;
Traffic Drums or Cones; Arrow Board ;
Construction Truck;
Retroreflective Delineators (For typical protected bike lanes); Temp bicycle direction.

Designed by: L. G. PETROSIAN 04/24/2017

SPEED (MPH)	MINIMUM SIGN SPACING (FT)
25	150
30	200
35	250
40	350
45	550
50	600
55	700

A Typical Mid-block TCP for Contraflow Bike Lane Closure.



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IN CASE OF ONE WAY ROADWAY OMIT OPPOSITE SIGNAGE (HAVE SIGNS ON BOTH SIDES OF ROADWAY APPROACHING WORK AHEAD).

(Mid-Block , where the Work Zone 100 feet or more from an intersection)

LEGEND

Traffic Direction; Work Zone; Work Zone;
Sign Stand Location;
Traffic Drums or Cones; Arrow Board ;
Construction Truck;
Retroreflective Delineators (For typical protected bike lanes); Temp bicycle direction.

SPEED (MPH)	MINIMUM SIGN SPACING (FT)
25	150
30	200
35	250
40	350
45	550
50	600
55	700

Designed by: L. G. PETROSIAN 04/24/2017

A Typical Far-side TCP for Contraflow Bike Lane Closure.

9

SHOW North DIRECTION

The case when contraflow Bicycle Lane is diverted through adjacent travel lane.

The spacing between channelizing devices for Contraflow Bicycle Lane taper shall not exceed 5ft.

The shared travel lane must be 13 feet wide.

The case when the Work Zone is within the parking lane and bicycle lane , and with minor encroachment into the crosswalk.

The spacing between channelizing devices for Contraflow Bicycle Lane parallel to the travel way shall not exceed 5ft.

Show Location and Dimensions of the Work Zone.

Specify duration of work.

(Far-side , where the Work Zone less than 100' after an intersection)

STANDARD NOTES

PARKING IS TO BE RESTRICTED 72HRS. IN ADVANCE UNLESS THERE IS AN EMERGENCY. SIGNS SHALL BE INSTALLED PRIOR TO THE COMMENCEMENT OF ALL WORK AND REMOVED IMMEDIATELY AFTER COMPLETION OF ACTIVITIES. IF A SIGN IS NO LONGER REQUIRED IT WILL BE REMOVED.

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IN CASE OF ONE WAY ROADWAY OMIT OPPOSITE SIGNAGE (HAVE SIGNS ON BOTH SIDES OF ROADWAY APPROACHING WORK AHEAD).

LEGEND

Traffic Direction; Work Zone; Work Zone;
Sign Stand Location;
Traffic Drums or Cones; Arrow Board ;
Construction Truck;
Retroreflective Delineators (For typical protected bike lanes); Temp bicycle direction.

Designed by: L. G. PETROSIAN 04/24/2017

SPEED (MPH)	MINIMUM SIGN SPACING (FT)
25	150
30	200
35	250
40	350
45	550
50	600
55	700

The case when contraflow Bicycle Lane is diverted through adjacent travel lane.

The spacing between channelizing devices for Contraflow Bicycle Lane taper shall not exceed 5ft.

10

A Typical Near-side TCP for Contraflow Bike Lane Closure.

SHOW North

PARKING LANE

PARKING LANE

ROAD WORK AHEAD

LANE SHIFT

END ROAD WORK

The case when the Work Zone is within the parking lane and bicycle lane , and with minor encroachment into the crosswalk.

Show Location and Dimensions of the Work Zone.

Specify duration of work.

The spacing between channelizing devices for Contraflow Bicycle Lane parallel to the travel way shall not exceed 5ft.

The shared travel lane must be 13 feet wide .

(OPTIONAL)

13ft.

Parking Restriction Area

Work Zone

KEEP RIGHT

8 -10ft.

ROAD WORK AHEAD

PARKING LANE

PARKING LANE

(OPTIONAL)

CURB LANE CLOSED AHEAD

ROAD WORK AHEAD

END ROAD WORK

25 ft.

(Near-side, where the Work Zone less than 100' before an intersection)

STANDARD NOTES

PARKING IS TO BE RESTRICTED 72HRS. IN ADVANCE UNLESS THERE IS AN EMERGENCY. SIGNS SHALL BE INSTALLED PRIOR TO THE COMMENCEMENT OF ALL WORK AND REMOVED IMMEDIATELY AFTER COMPLETION OF ACTIVITIES. IF A SIGN IS NO LONGER REQUIRED IT WILL BE REMOVED.

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THE SPACING OF TRAFFIC CONES IS TO BE A MAXIMUM OF 10 '(Ft.).

IN CASE OF ONE WAY ROADWAY OMIT OPPOSITE SIGNAGE (HAVE SIGNS ON BOTH SIDES OF ROADWAY APPROACHING WORK AHEAD).

LEGEND

Traffic Direction; Work Zone; Work Zone;

Sign Stand Location;

Traffic Drums or Cones; Arrow Board ;

Construction Truck;

Retroreflective Delineators (For typical protected bike lanes); Temp bicycle direction.

Designed by: L. G. PETROSIAN 04/24/2017

SPEED (MPH)	MINIMUM SIGN SPACING (FT)
25	150
30	200
35	250
40	350
45	550
50	600
55	700

A Typical Mid-block TCP When Contraflow Bike Lane is Diverted Through Adjacent Parking Lane.

The case when the Work Zone is within the parking lane and bicycle shared travel lane .

SHOW North DIRECTION

The spacing between channelizing devices for Contraflow Bicycle Lane taper shall not exceed 5ft.

The spacing between channelizing devices for Contraflow Bicycle Lane parallel to the travel way shall not exceed 5ft.

(OPTIONAL)

5 ft.

Parking Restriction Area+ 10(ft)

10

13ft.

13ft.

Work Zone

Parking Restriction

The case when the Work Zone is within the parking lane and bicycle shared travel lane .

(OPTIONAL)

Show Location and Dimensions of the Work Zone .

(OPTIONAL)

The shared travel lane adjacent to Work Zone must be 13 feet wide .

(OPTIONAL)

Specify duration of work.

STANDARD NOTES

PARKING IS TO BE RESTRICTED 72HRS. IN ADVANCE UNLESS THERE IS AN EMERGENCY. SIGNS SHALL BE INSTALLED PRIOR TO THE COMMENCEMENT OF ALL WORK AND REMOVED IMMEDIATELY AFTER COMPLETION OF ACTIVITIES. IF A SIGN IS NO LONGER REQUIRED IT WILL BE REMOVED.

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IN CASE OF ONE WAY ROADWAY OMIT OPPOSITE SIGNAGE (HAVE SIGNS ON BOTH SIDES OF ROADWAY APPROACHING WORK AHEAD).

(Mid-Block , where the Work Zone 100 feet or more from an intersection)

LEGEND

Traffic Direction; Work Zone; Work Zone;
Sign Stand Location;
Traffic Drums or Cones; Arrow Board ;
Construction Truck;
Retroreflective Delineators (For typical protected bike lanes); Temp bicycle direction.

SPEED (MPH)	MINIMUM SIGN SPACING (FT)
25	150
30	200
35	250
40	350
45	550
50	600
55	700

Designed by: L. G. PETROSIAN 04/24/2017

A Typical Near-side TCP When Contraflow Bike Lane is Diverted Through Adjacent Parking Lane.

ROAD WORK AHEAD

LANE SHIFT

PARKING LANE

PARKING LANE

END ROAD WORK

SHOW North DIRECTION

KEEP RIGHT

13 ft.

8 -10ft.

Work Zone

(OPTIONAL)

LANE SHIFT

5 ft.

Parking Restriction Area +10(ft)

10

Parking Restriction

KEEP RIGHT

(OPTIONAL)

(OPTIONAL)

The shared travel lane adjacent to Work Zone must be 13 feet wide .

The case when the Work Zone is within the parking lane and bicycle shared travel lane.

The spacing between channelizing devices for Contraflow Bicycle Lane parallel to the travel way shall not exceed 5ft.

END ROAD WORK

Show Location and Dimensions of the Work Zone.

Specify duration of work.

CURB LANE CLOSED AHEAD

ROAD WORK AHEAD

PARKING LANE

PARKING LANE

STANDARD NOTES

PARKING IS TO BE RESTRICTED 72HRS. IN ADVANCE UNLESS THERE IS AN EMERGENCY. SIGNS SHALL BE INSTALLED PRIOR TO THE COMMENCEMENT OF ALL WORK AND REMOVED IMMEDIATELY AFTER COMPLETION OF ACTIVITIES. IF A SIGN IS NO LONGER REQUIRED IT WILL BE REMOVED.

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THE SPACING OF TRAFFIC CONES IS TO BE A MAXIMUM OF 10 '(Ft.).

IN CASE OF ONE WAY ROADWAY OMIT OPPOSITE SIGNAGE (HAVE SIGNS ON BOTH SIDES OF ROADWAY APPROACHING WORK AHEAD).

The spacing between channelizing devices for Contraflow Bicycle Lane taper shall not exceed 5ft.

(Near-side, where the Work Zone less than 100' before an intersection)

LEGEND

Traffic Direction; Work Zone; Work Zone;

Sign Stand Location;

Traffic Drums or Cones; Arrow Board ;

Construction Truck;

Retroreflective Delineators (For typical protected bike lanes); Temp bicycle direction.

Designed by: L. G. PETROSIAN 04/24/2017

SPEED (MPH)	MINIMUM SIGN SPACING (FT)
25	150
30	200
35	250
40	350
45	550
50	600
55	700

A Typical Far-side TCP When Contraflow Bike Lane is Diverted Through Adjacent Parking Lane.

13

The case when the Work Zone is within the parking lane and bicycle shared travel lane.

SHOW
North
DIRECTION

PARKING LANE

ROAD WORK AHEAD

LANE SHIFT

END ROAD WORK

Show Location and Dimensions of the Work Zone.

The spacing between channelizing devices for Contraflow Bicycle Lane parallel to the travel way shall not exceed 5ft.

5 ft.

The spacing between channelizing devices for Contraflow Bicycle Lane taper shall not exceed 5ft.

(OPTIONAL)

The shared travel lane adjacent to Work Zone must be 13 feet wide.

Specify duration of work.

Parking Restriction Area

KEEP RIGHT

Work Zone

Parking Restriction

8 -10ft.

PARKING LANE

ROAD WORK AHEAD

CURB LANE CLOSED AHEAD

STANDARD NOTES

PARKING IS TO BE RESTRICTED 72HRS. IN ADVANCE UNLESS THERE IS AN EMERGENCY. SIGNS SHALL BE INSTALLED PRIOR TO THE COMMENCEMENT OF ALL WORK AND REMOVED IMMEDIATELY AFTER COMPLETION OF ACTIVITIES. IF A SIGN IS NO LONGER REQUIRED IT WILL BE REMOVED.

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THE SPACING OF TRAFFIC CONES IS TO BE A MAXIMUM OF 10 '(Ft.).

IN CASE OF ONE WAY ROADWAY OMIT OPPOSITE SIGNAGE (HAVE SIGNS ON BOTH SIDES OF ROADWAY APPROACHING WORK AHEAD).

(Far-side , where the Work Zone less than 100' after an intersection)

LEGEND

Traffic Direction; Work Zone; Work Zone;
Sign Stand Location;
Traffic Drums or Cones; Arrow Board ;
Construction Truck;
Retroreflective Delineators (For typical protected bike lanes); Temp bicycle direction.

SPEED (MPH)	MINIMUM SIGN SPACING (FT)
25	150
30	200
35	250
40	350
45	550
50	600
55	700

Designed by: L. G. PETROSIAN 04/24/2017

A Typical Far-side TCP for Protected Bicycle Lane Closure.

(Far-side, where the Work Zone less than 100' after an intersection)

14

The case when Protected Bicycle Lane is diverted through adjacent travel lane.

SHOW North DIRECTION

STREET 2

END ROAD WORK

The spacing between channelizing devices for Protected Bicycle Lane taper shall not exceed 5ft.

The spacing between channelizing devices for Protected Bicycle Lane parallel to the travel way shall not exceed 10ft.

5 ft.

5 ft.

ONLY ONLY

PRIMARY STREET

Work Zone

END ROAD WORK

LANE SHIFT

END ROAD WORK

The standard clear space for bicycle cycle track is ten feet (10') and for one way bicycle lane is five feet (5').

Show Location and Dimensions of the Work Zone . Specify duration of work.

LANE SHIFT

(OPTIONAL)

ROAD WORK AHEAD

PARKING LANE

PARKING LANE

STREET 1

PARKING LANE

PARKING LANE

END ROAD WORK

ROAD WORK AHEAD

ROAD WORK AHEAD

ROAD WORK AHEAD

ONLY ONLY

STANDARD NOTES

PARKING IS TO BE RESTRICTED 72HRS. IN ADVANCE UNLESS THERE IS AN EMERGENCY. SIGNS SHALL BE INSTALLED PRIOR TO THE COMMENCEMENT OF ALL WORK AND REMOVED IMMEDIATELY AFTER COMPLETION OF ACTIVITIES. IF A SIGN IS NO LONGER REQUIRED IT WILL BE REMOVED.

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THE SPACING OF TRAFFIC CONES IS TO BE A MAXIMUM OF 10 '(Ft.).

IN CASE OF ONE WAY ROADWAY OMIT OPPOSITE SIGNAGE (HAVE SIGNS ON BOTH SIDES OF ROADWAY APPROACHING WORK AHEAD).

LEGEND

Traffic Direction; Work Zone; Work Zone;

Sign Stand Location;

Traffic Drums or Cones; Arrow Board ;

Construction Truck;

Retroreflective Delineators (For typical protected bike lanes); Temp bicycle direction.

Designed by: L. G. PETROSIAN 04/24/2017

SPEED (MPH)	MINIMUM SIGN SPACING (FT)
25	150
30	200
35	250
40	350
45	550
50	600
55	700

A Typical Mid-block TCP for Protected Bicycle Lane Closure.

(Mid-block, where the Work Zone 100 feet or more from an intersection)

The case when Protected Bicycle Lane is diverted through adjacent travel lane.

SHOW North DIRECTION

15

STREET 2

END ROAD WORK

The spacing between channelizing devices for Protected Bicycle Lane parallel to the travel way shall not exceed 10ft.

Show Location and Dimensions of the Work Zone.
Specify duration of work.

ONLY ONLY

5 ft.

5 ft.

Work Zone

PRIMARY STREET

ROAD WORK AHEAD

LANE SHIFT

END ROAD WORK

The spacing between channelizing devices for Protected Bicycle Lane taper shall not exceed 5ft.

(OPTIONAL)

ROAD WORK AHEAD

PARKING LANE

PARKING LANE

PARKING LANE

PARKING LANE

STREET 1

ONLY ONLY

STANDARD NOTES

PARKING IS TO BE RESTRICTED 72HRS. IN ADVANCE UNLESS THERE IS AN EMERGENCY. SIGNS SHALL BE INSTALLED PRIOR TO THE COMMENCEMENT OF ALL WORK AND REMOVED IMMEDIATELY AFTER COMPLETION OF ACTIVITIES. IF A SIGN IS NO LONGER REQUIRED IT WILL BE REMOVED.

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THE SPACING OF TRAFFIC CONES IS TO BE A MAXIMUM OF 10 '(Ft.).

IN CASE OF ONE WAY ROADWAY OMIT OPPOSITE SIGNAGE (HAVE SIGNS ON BOTH SIDES OF ROADWAY APPROACHING WORK AHEAD).

LEGEND

Traffic Direction; Work Zone; Work Zone;
Sign Stand Location;
Traffic Drums or Cones; Arrow Board ;
Construction Truck;
Retroreflective Delineators (For typical protected bike lanes); Temp bicycle direction.

Designed by: L. G. PETROSIAN 04/24/2017

The standard clear space for bicycle cycle track is ten feet (10') and for one way bicycle lane is five feet (5').

SPEED (MPH)	MINIMUM SIGN SPACING (FT)
25	150
30	200
35	250
40	350
45	550
50	600
55	700

A Typical Near-side TCP for Bicycle Cycle Track Closure.

(Near-side, where the Work Zone less than 100' before an intersection)

6*

The case when Bicycle Cycle Track is diverted through adjacent travel lane.

SHOW North DIRECTION

The standard clear space for two-way (cycle track) is ten feet (10'), and for one-way bicycle lane is five (5').

The spacing between channelizing devices for Bicycle Cycle Track taper shall not exceed 5ft.

Show Location and Dimensions of the Work Zone.
Specify duration of work.

The spacing between channelizing devices for Bicycle Cycle Track parallel to the travel way shall not exceed 10ft.

(OPTIONAL)

(OPTIONAL)

(OPTIONAL)

STREET 2

STREET 1

PRIMARY STREET

PARKING LANE

PARKING LANE

Work Zone

END ROAD WORK

LANE SHIFT

LEFT LANE CLOSED AHEAD

ROAD WORK AHEAD

STANDARD NOTES

PARKING IS TO BE RESTRICTED 72HRS. IN ADVANCE UNLESS THERE IS AN EMERGENCY. SIGNS SHALL BE INSTALLED PRIOR TO THE COMMENCEMENT OF ALL WORK AND REMOVED IMMEDIATELY AFTER COMPLETION OF ACTIVITIES. IF A SIGN IS NO LONGER REQUIRED IT WILL BE REMOVED.

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IN CASE OF ONE WAY ROADWAY OMIT OPPOSITE SIGNAGE (HAVE SIGNS ON BOTH SIDES OF ROADWAY APPROACHING WORK AHEAD).

LEGEND

- Traffic Direction;
- Work Zone; Work Zone;
- Sign Stand Location;
- Traffic Drums or Cones;
- Arrow Board ;
- ConstructionTruck;
- Retroreflective Delineators (For typical protected bike lanes)
- Temp bicycle direction;
- Chain Link Fence

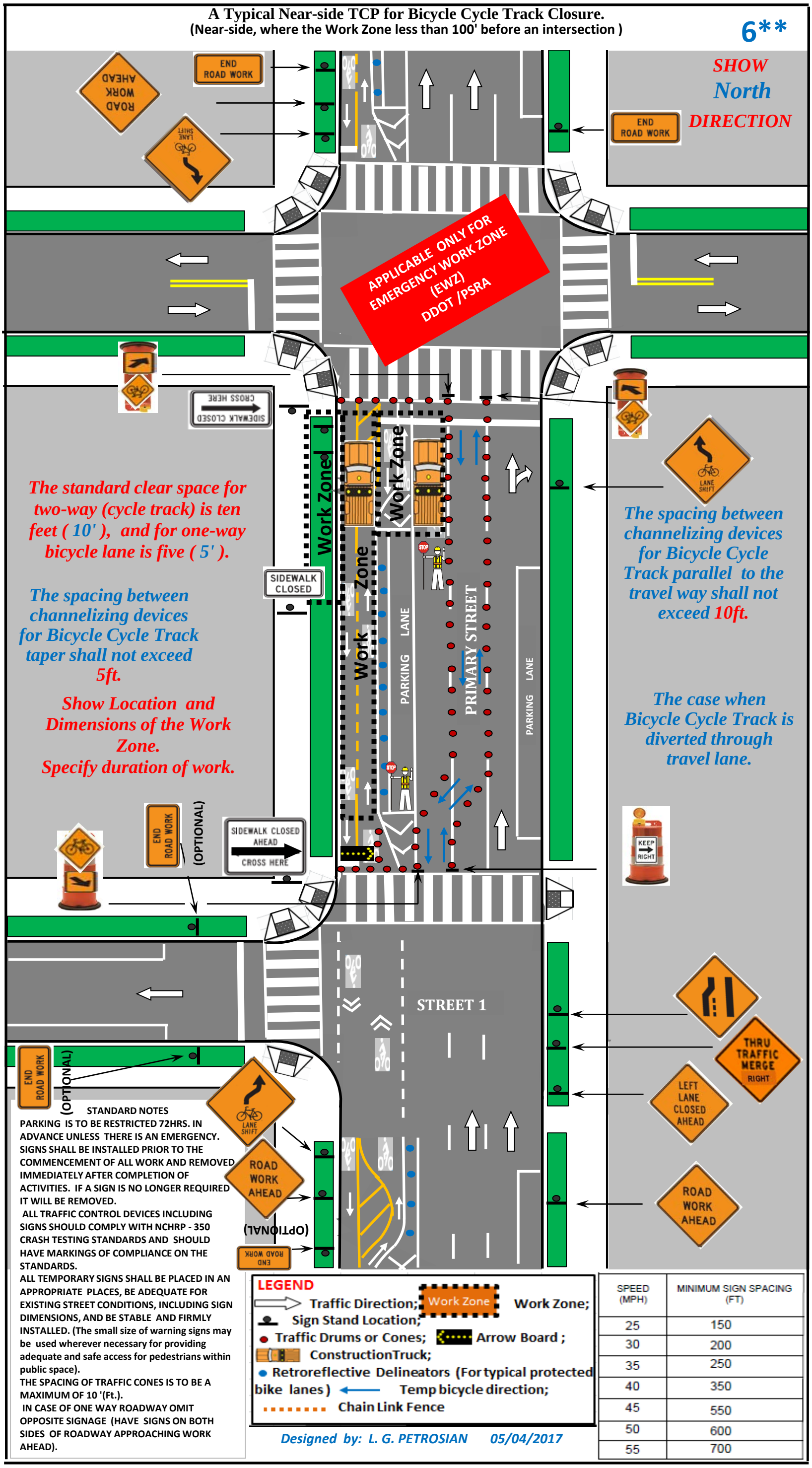
Designed by: L. G. PETROSIAN 05/04/2017

SPEED (MPH)	MINIMUM SIGN SPACING (FT)
25	150
30	200
35	250
40	350
45	550
50	600
55	700

A Typical Near-side TCP for Bicycle Cycle Track Closure.

(Near-side, where the Work Zone less than 100' before an intersection)

6**



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The spacing between channelizing devices for Bicycle Cycle Track taper shall not exceed 5ft.

Show Location and Dimensions of the Work Zone.
Specify duration of work.

The spacing between channelizing devices for Bicycle Cycle Track parallel to the travel way shall not exceed 10ft.

The case when Bicycle Cycle Track is diverted through travel lane.

STANDARD NOTES

PARKING IS TO BE RESTRICTED 72HRS. IN ADVANCE UNLESS THERE IS AN EMERGENCY. SIGNS SHALL BE INSTALLED PRIOR TO THE COMMENCEMENT OF ALL WORK AND REMOVED IMMEDIATELY AFTER COMPLETION OF ACTIVITIES. IF A SIGN IS NO LONGER REQUIRED IT WILL BE REMOVED.

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IN CASE OF ONE WAY ROADWAY OMIT OPPOSITE SIGNAGE (HAVE SIGNS ON BOTH SIDES OF ROADWAY APPROACHING WORK AHEAD).

LEGEND

- Traffic Direction;
- Work Zone; Work Zone;
- Sign Stand Location;
- Traffic Drums or Cones;
- Arrow Board ;
- ConstructionTruck;
- Retroreflective Delineators (For typical protected bike lanes)
- Temp bicycle direction;
- Chain Link Fence

Designed by: L. G. PETROSIAN 05/04/2017

SPEED (MPH)	MINIMUM SIGN SPACING (FT)
25	150
30	200
35	250
40	350
45	550
50	600
55	700

A Typical Far-side TCP for Bicycle Cycle Track Closure.

(Far-side , where the Work Zone less than 100' after an intersection)

5*

The case when Bicycle Cycle Track is diverted through adjacent travel lane.

ROAD WORK AHEAD

SHOW North DIRECTION

STREET 2

END ROAD WORK

The spacing between channelizing devices for Bicycle Cycle Track parallel to the travel way shall not exceed 10ft.

Show Location and Dimensions of the Work Zone.

Specify duration of work.

The standard clear space for two-way (cycle track) is ten feet (10'), and for one-way bicycle lane is five (5').

The spacing between channelizing devices for Bicycle Cycle Track taper shall not exceed 5ft.

LANE SHIFT

PARKING LANE

PRIMARY STREET

PARKING LANE

Work Zone

END ROAD WORK (OPTIONAL)

KEEP RIGHT

STREET 1

END ROAD WORK (OPTIONAL)

LEFT LANE CLOSED AHEAD

THRU TRAFFIC MERGE RIGHT

ROAD WORK AHEAD

LANE SHIFT

ROAD WORK AHEAD

END ROAD WORK

STANDARD NOTES

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IN CASE OF ONE WAY ROADWAY OMIT OPPOSITE SIGNAGE (HAVE SIGNS ON BOTH SIDES OF ROADWAY APPROACHING WORK AHEAD).

LEGEND

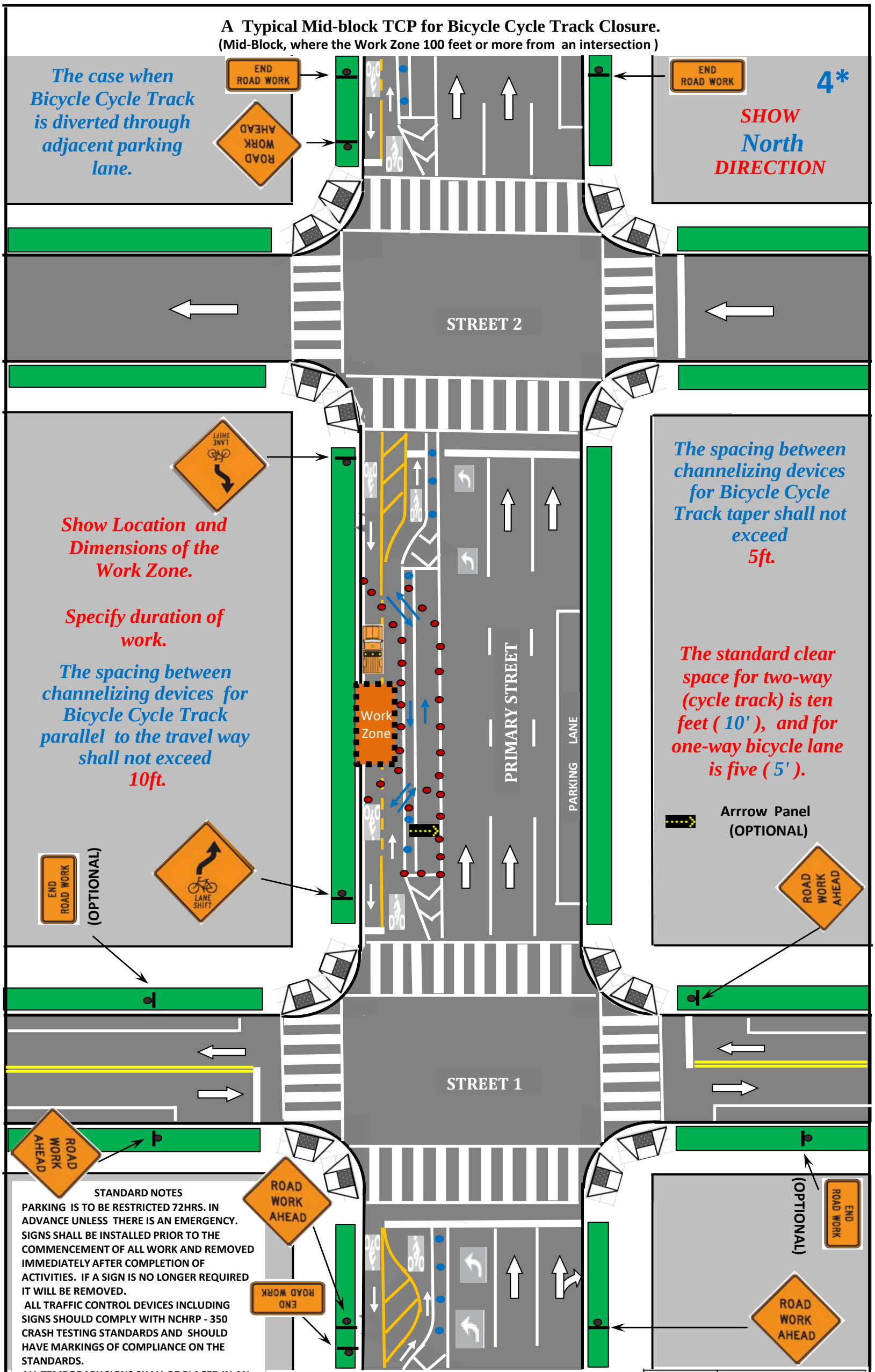
- Traffic Direction;
- Work Zone; Work Zone;
- Sign Stand Location;
- Traffic Drums or Cones;
- Arrow Board ;
- ConstructionTruck;
- Retroreflective Delineators (For typical protected bike lanes)
- Temp bicycle direction;
- Chain Link Fence

Designed by: L. G. PETROSIAN 05/04/2017

SPEED (MPH)	MINIMUM SIGN SPACING (FT)
25	150
30	200
35	250
40	350
45	550
50	600
55	700

A Typical Mid-block TCP for Bicycle Cycle Track Closure.

(Mid-Block, where the Work Zone 100 feet or more from an intersection)



STANDARD NOTES

PARKING IS TO BE RESTRICTED 72HRS. IN ADVANCE UNLESS THERE IS AN EMERGENCY. SIGNS SHALL BE INSTALLED PRIOR TO THE COMMENCEMENT OF ALL WORK AND REMOVED IMMEDIATELY AFTER COMPLETION OF ACTIVITIES. IF A SIGN IS NO LONGER REQUIRED IT WILL BE REMOVED.

ALL TRAFFIC CONTROL DEVICES INCLUDING SIGNS SHOULD COMPLY WITH NCHRP - 350 CRASH TESTING STANDARDS AND SHOULD HAVE MARKINGS OF COMPLIANCE ON THE STANDARDS.

ALL TEMPORARY SIGNS SHALL BE PLACED IN AN APPROPRIATE PLACES, BE ADEQUATE FOR EXISTING STREET CONDITIONS, INCLUDING SIGN DIMENSIONS, AND BE STABLE AND FIRMLY INSTALLED. (The small size of warning signs may be used wherever necessary for providing adequate and safe access for pedestrians within public space).

THE SPACING OF TRAFFIC CONES IS TO BE A MAXIMUM OF 10 '(Ft.).

IN CASE OF ONE WAY ROADWAY OMIT OPPOSITE SIGNAGE (HAVE SIGNS ON BOTH SIDES OF ROADWAY APPROACHING WORK AHEAD).

LEGEND

Traffic Direction; Work Zone; Work Zone;
Sign Stand Location;
Traffic Drums or Cones; Arrow Board ;
Construction Truck;
Retroreflective Delineators (For typical protected bike lanes); Temp bicycle direction.

Designed by: L. G. PETROSIAN 05/04/2017

SPEED (MPH)	MINIMUM SIGN SPACING (FT)
25	150
30	200
35	250
40	350
45	550
50	600
55	700

A Typical Mid-block TCP When an Unprotected Bike Lane is Diverted Through an Adjacent Travel Lane.

The case when the Work Zone is within the parking lane and the bicycle lane .

20

SHOW North DIRECTION

The spacing between channelizing devices for Bicycle Lane taper shall not exceed

The spacing between channelizing devices for Bicycle Lane parallel to the travel way shall not exceed 5ft.

Show Location and Dimensions of the Work Zone .

(OPTIONAL)

Specify duration of work.

The shared travel lane adjacent to Work Zone must be 13 feet wide .

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(Mid-Block , where the Work Zone 100 feet or more from

LEGEND

Traffic Direction; Work Zone; Work Zone;
Sign Stand Location; Construction Truck;
Traffic Drums or Cones; The Water Filled Plastic Jersey Barrier (Triton Barrier);
Temporary Bicycle Direction ; Chain Link Fence
Arrow Panel ; Traffic Attenuator.

Designed by: L. G. PETROSIAN 8/14/2017

SPEED (MPH)	MINIMUM SIGN SPACING (FT)
25	150
30	200
35	250
40	350
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50	600
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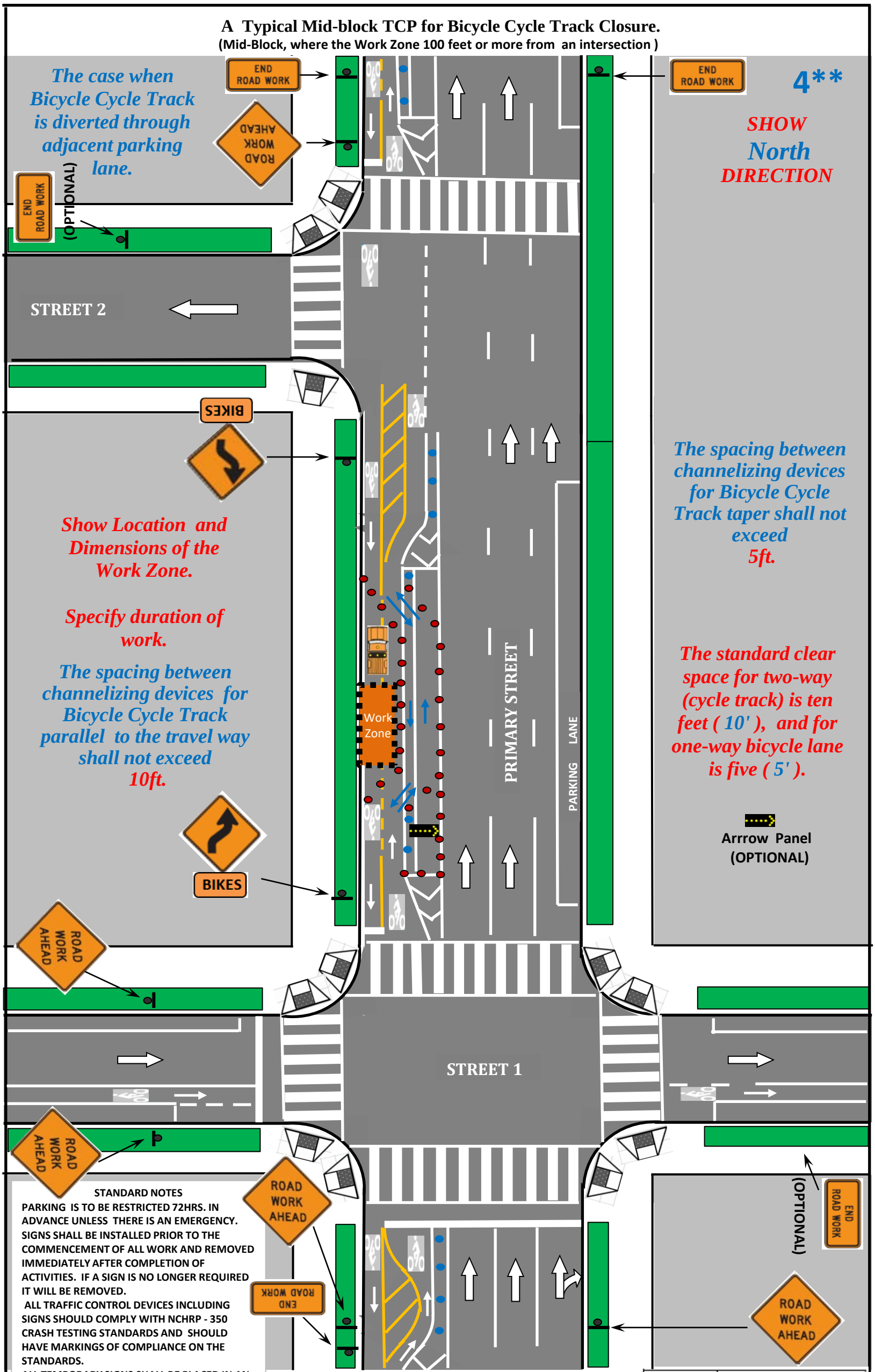

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LEGEND

Traffic Direction; Work Zone; Work Zone;

Sign Stand Location;

Traffic Drums or Cones; Arrow Board ;

Construction Truck;

Retroreflective Delineators (For typical protected bike lanes); Temp bicycle direction.

SPEED (MPH)	MINIMUM SIGN SPACING (FT)
25	150
30	200
35	250
40	350
45	550
50	600
55	700

Designed by: L. G. PETROSIAN 08/14/2017

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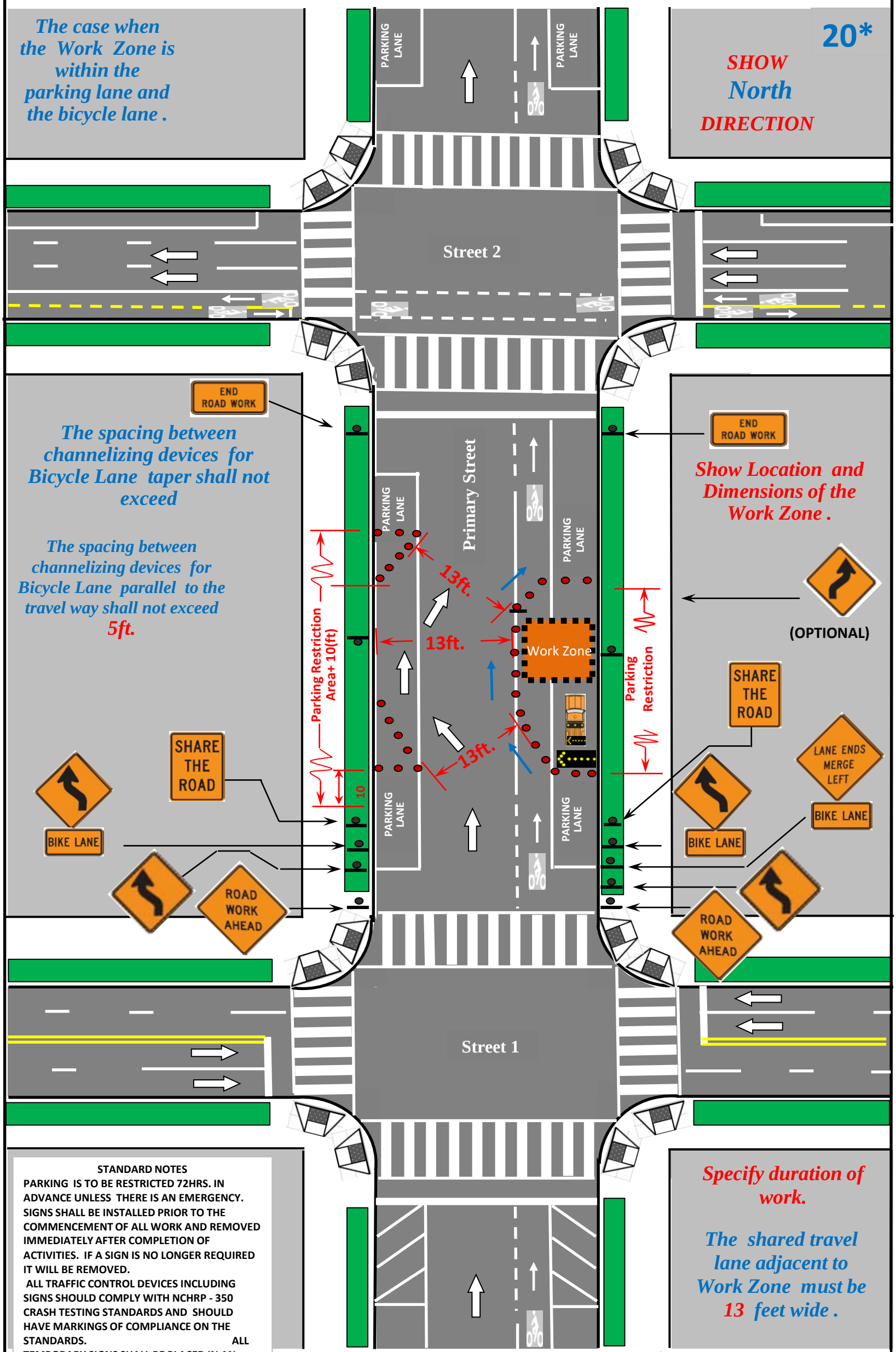

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Sign Stand Location;
Traffic Drums or Cones; Arrow Board ;
Construction Truck;
Retroreflective Delineators (For typical protected bike lanes); Temp bicycle direction.

Designed by: L. G. PETROSIAN 8/15/2017

SPEED (MPH)	MINIMUM SIGN SPACING (FT)
25	150
30	200
35	250
40	350
45	550
50	600
55	700