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# TRAFFIC CONTROL HANDBOOK

**MUST MAINTAIN  
PEDESTRIAN AND  
DISABILITY ACCESS AT  
ALL TIMES**



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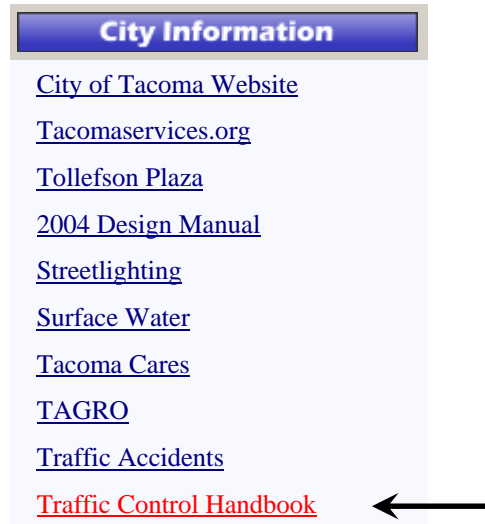
Survey Two Lane Arterial Intersection  
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## **CREATE YOUR OWN PLAN**

Blank Two Lane Road with Two Intersections  
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# TRAFFIC CONTROL PLAN INSTRUCTIONS

- 1) To create a traffic control plan, go to [www.govME.com](http://www.govME.com)
- 2) At the bottom of the page, under “City Information” choose “[Traffic Control Handbook](#)”



The City of Tacoma Traffic Control Handbook will open up in a new screen.

- 3) Read “**INTRODUCTION & SPECIAL REQUIREMENTS**” Chapter. Pay particular attention to the sections regarding [\*Pedestrian and Disability access.\*](#)
- 4) Choose a plan closest to the type of traffic control you need.
  - You may need to alter an existing plan or use multiple plans
- 5) Print out the traffic control plan that you need.
- 6) On the map, identify street names and addresses of work.
- 7) Draw site specific details (work area, location of signs, cones, etc.).
- 8) Add Contractor name and contact information.
- 9) Specify type of work at the top of the page
- 10) List dates of work and desired work hours.
- 11) Contact a Permit Specialist when you are done filling in your Traffic Control Plan.
- 12) Write the permit number in the top right corner of the sheet (when obtained from the Permit Specialist).
- 13) The Traffic Control Plan is not valid until permit is acquired and paid for.
- 14) You must keep a copy of the Traffic Control Plan on your job site for Inspectors and Road Use Compliance Officers to review. Prime contractors will be responsible for any subcontractor’s traffic control unless sub goes through the above process.



## City of Tacoma Public Works Department

### INTRODUCTION

This manual is intended for use by any person, firm or corporation, public or private, when involved in construction, maintenance or any activity that alters the normal flow of traffic, vehicular or pedestrian, on any City right-of-way.

This manual shall be used in conjunction with Part VI of The Manual on Uniform Traffic Control Devices (MUTCD) for the installation of temporary traffic control and the Access Board's Guidelines for Accessible Public Rights -of-Way (2002), ([www.access-board.gov/](http://www.access-board.gov/)),

Authority to establish local rules regarding channelization and traffic control is permitted by Washington Administrative Code (WAC) 308.330.265.

Unless specifically addressed in this manual, when the term "should" is used in the MUTCD to describe a condition or method for traffic control, it means that if that suggestion is not used an equally effective method will be used. It does not eliminate the responsibility to address the situation.

This manual does not prohibit the use of additional traffic control or warning devices as long as the minimum conditions are met.

For additional information, please call the Engineering Division at (253) 591-5500.

### PERMITS

A permit must first be obtained from the Public Works Department by any person, firm or corporation working in City right-of-way, that alters the normal flow of traffic or makes any public place dangerous.

Provisions for obtaining a permit are outlined in Tacoma Municipal Code Chapter 10.22.

All applications for permits must have a comprehensive traffic control plan attached for review by the Traffic Engineer. Permits will not be issued unless the Traffic Engineer has approved the traffic control plan.

### MUNICIPAL AGENCIES

Municipal agencies and Utilities are not required to obtain a permit for routine maintenance and repairs, but must notify the Traffic Engineer a minimum of 72 hours in advance if the following conditions apply:

1. Closing any street (see attached street closure requirements).
2. Altering or detouring traffic during commute hours on arterial streets (7 a.m. – 9 a.m. and 4 p.m. – 6 p.m.).
3. The activity or obstruction will be in place for more than 8 hours.
4. The activity or obstruction is during the hours of darkness.
5. The activity reduces traffic on arterial streets to less than one lane in each direction.

## GENERAL RULES

The following list of rules must be followed while involved in construction, maintenance or other activity in City right of way unless specifically addressed by the Traffic Engineer.

1. All traffic control devices must meet the requirements established by the Manual on Uniform Traffic Control Devices.
2. No activity will be placed in such a way as to detour, slow or alter traffic flow during peak commute hours. These times are generally from 7 a.m.– 9 a.m. and 4 p.m. – 6 p.m. The Traffic Engineer may allow an exception with prior approval.
3. An approved traffic control plan must be on-site and accessible for inspection at all times by law enforcement or inspectors.
4. Traffic control plans and activities must include the following components:
  - a. Advanced Warning Area: Signs and other devices inform drivers of what to expect.
  - b. Transition Area: Channelization devices move traffic from the normal flow to the desired path.
  - c. Activity Area: Area where the work takes place.
  - d. Buffer Space: Area used to separate traffic from the work activity area and provides recovery space for an errant vehicle.
  - e. Termination Area: Area used to return traffic to the normal path.
5. **Pedestrian and disability access** must be maintained throughout the period of time construction is underway. This does not just apply to the final product, but accessibility must be maintained during the actual construction. Safe, clearly marked routes must be maintained through or around the construction activity at all times. The use of temporary walkways with width, slope, and cross-slope compliant to the maximum extent feasible shall be incorporated on the job site. Surfaces must be firm, stable, and slip resistant. Channeling and barricading must be used to separate pedestrians from traffic. Adequate barricading must be addressed to prevent visually impaired pedestrians from entering work zones. Alternate pedestrian circulation routes with appropriate signage that can be accessed by people who use mobility aids (wheelchairs, walkers, scooters, etc.) The alternate circulation path shall have a minimum width of 5 feet and parallel the disrupted pedestrian access route when practicable. Barricades and channelizing devices shall be continuous, stable, non-flexible, and shall consist of a wall, fence, or enclosure specified in section 6F of the MUTCD. A solid toe rail should be attached such that the bottom edge is 6 inches maximum above the walkway surface. The top rail shall be parallel to the toe rail and shall be located 36 inches minimum and 42 inches maximum above the walkway surface. If drums, cones, or tubular markers are used to channelize pedestrians, they shall be located such that there are no gaps between the bases of the devices in order to create a continuous bottom, and the height of each individual device shall be no less than 36 inches.
6. Persons in charge of maintaining or establishing traffic control and channelization must have a certified flagger control card in their possession and must be on the site at all times or be represented by another knowledgeable, certified person.
7. A flagger cannot be used to direct traffic through a signalized intersection against the signal indications. When flaggers are used near signalized intersections, care will be used to clear the intersection of traffic before the signal change.
8. In some situations, the Traffic Signal Section may turn the intersection to an all-way stop for flagger control. Prior approval must be obtained from the Traffic Engineer.
9. A uniformed police officer is required to direct traffic through a signalized intersection against the signal indications.
10. Police officers may also be required during activities for traffic calming if speeds are high, pedestrian or vehicular traffic volume is extremely high, or during emergencies.

11. An approved traffic control plan and permit shall be posted on the job site for review by City officials.  
Construction Inspectors shall ensure the approved traffic control plan is on site at all times. Any approved Traffic control plans the Contractor doesn't follow are in violation of the Standard Specifications which are included in the contract. It is the inspector's job to have them comply or Stop work. Jobs having permits only and not following the approved Traffic Control plan is a violation of Tacoma Municipal Code 10.22.080. The work can be stopped or a violation infraction can be imposed in an amount not exceeding \$500.00.
12. When parking lanes are closed due to construction, "no parking" portables will be installed at least 48 hours in advance of the closure in unrestricted areas and 24 hours in advance in time restricted areas. The message on the portables shall establish the date and hours for no parking.
13. During emergencies where life, property or public safety is in danger, conditions listed may be changed. Traffic control will be addressed along with the initial response. (See attached page for emergency contact numbers.)
14. The Traffic Engineer may allow reduced speed limits in construction area zones. Request for speed reduction must be included in the traffic control plan.
15. All signs and cones shall be removed from the right-of-way when traffic control is not in effect.
16. The contractor may be required to discontinue work if possible conflict exists with special events such as parades, sporting events, miscellaneous rallies, and large public meetings. Information concerning such events can usually be obtained from the City Clerks Office, tel. (253) 591-5171.
17. Maintenance of 2-way traffic on arterial streets at all times except on one-way streets. Additional width for facilitating traffic flow may be obtained by prohibiting on-street parking adjacent to the work zone.
18. No work shall be scheduled on streets or sidewalks within the City of Tacoma Business Districts from Thanksgiving Day through New Years Day.

Failure to comply with the provisions of this manual is a traffic infraction and, notwithstanding any fines or penalties levied against the person, firm or corporation involved, if a safety hazard exists, the work may be ordered stopped and the obstruction cleared by the person, firm or corporation responsible or by the City at that responsible party's expense.

<http://www.cityoftacoma.org/>

<http://wspwit01.ci.tacoma.wa.us/govME/Admin/Inter/StartPage/default.aspx>

[http://wspwit01.ci.tacoma.wa.us/download/PDF/Traffic\\_Control\\_Handbook.pdf](http://wspwit01.ci.tacoma.wa.us/download/PDF/Traffic_Control_Handbook.pdf)

## Special Traffic Requirements

The contractor shall notify the following departments three (3) working days prior to any street closure.

Department	Phone	Fax
Traffic Engineering	591-5500	591-5533
Tacoma Fire Department	591-5733	591-5034
Tacoma Police - Operations	591-5954	594-7842
LESA	798-4721	798-2708
Pierce Transit	581-8109	589-6364 or 589-6367
Pierce Transit Events Coordinator	581-8001	984-8161
Public Works/Streets & Grounds	591-5495	591-5302
School Transportation Office	571-1853	571-1932
Durham School Services		475-0422
First Students		272-7799
UWT Facilities Services		692-5705
Off-Duty Police Officer	591-5932	
Tacoma Refuse	591-5544	591-5547

### Include the following information when notifying the above departments.

- Name of street to be closed & the extent of the closure (between which two roads).
- Stipulate whether or not the area is to be open to local traffic & emergency vehicles.
- State the date(s) & hour(s) the closure will be in effect.
- Give the reason for the closure.
- Provide detour information.
- State who/which firm is performing the work.
- Provide the name and telephone number of a contact person.

### Recommended Publications

As a contractor you will have many opportunities for setting up traffic control. To comply with national standards, we recommend having the **MUTCD** (Manual on Uniform Traffic Control Devices) for future reference.

To order hard copies or CD versions of the MUTCD please go to one of the links below:  
American Association of State Highway Organizations at: <https://bookstore.transportation.org/>  
Institute of Traffic Engineers at: <http://www.ite.org/bookstore/index.asp>  
American Traffic Safety Services Association at: <http://www.atssa.com/>

### Things to Think About

Before the traffic control plan is drawn visit the site and look for special circumstances that may be unique to the area. For example work being done on the sidewalk may be a hazard if someone walks out a door into your wet cement or a tool may fall on someone's head if someone is in a lift washing windows. Call Pierce Transit if you need to do work at a bus stop. Transit will inform citizens and move or temporarily close the stop. Keep in mind that pedestrians need 5' of unobstructed walking area. If roadwork needs to be done on an arterial street, traffic control devices shall be removed during peak hour traffic (7am to 9am and 4pm to 6pm). For further information see our TRAFFIC CONTROL HANDBOOK.

<http://www.cityoftacoma.org/>

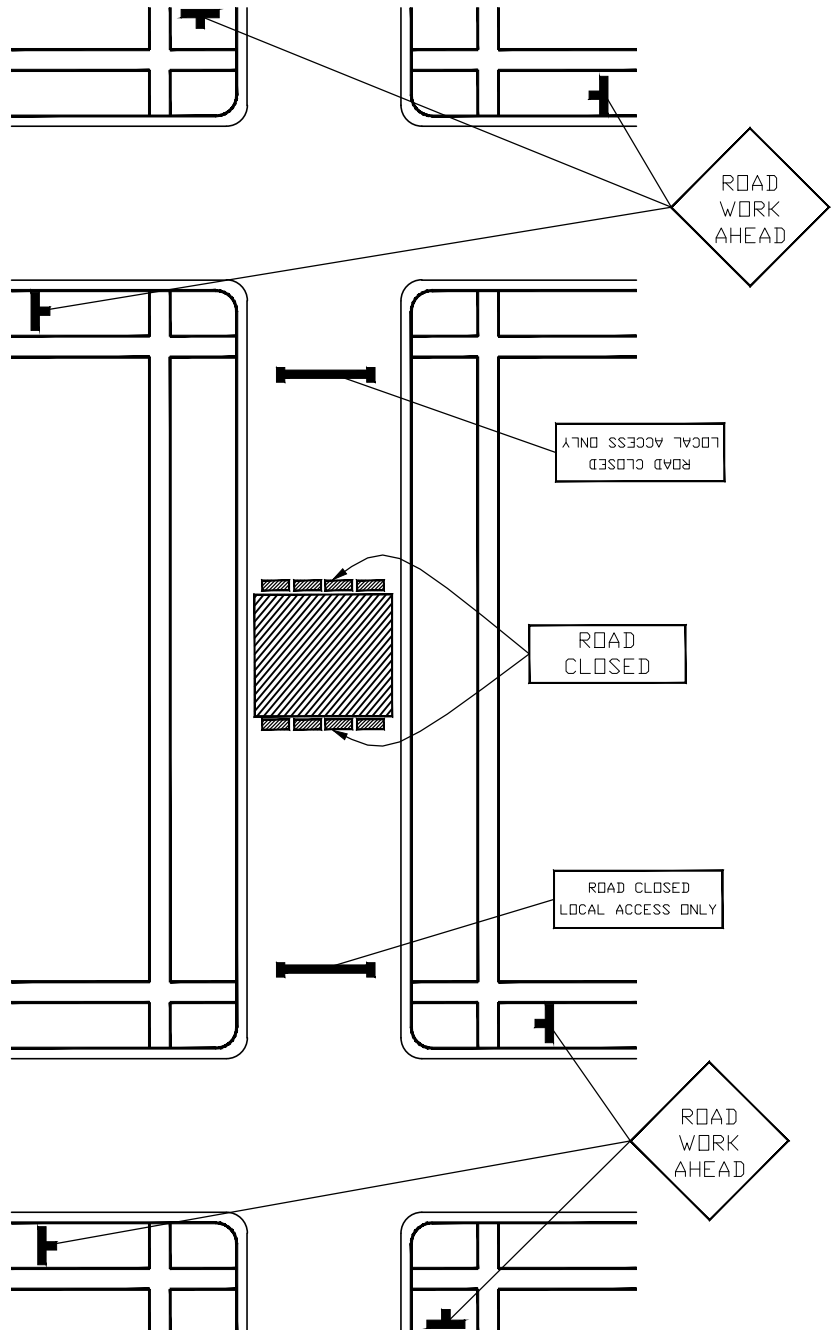
<http://wspwit01.ci.tacoma.wa.us/govME/Admin/Inter/StartPage/default.aspx>

[http://wspwit01.ci.tacoma.wa.us/download/PDF/Traffic\\_Control\\_Handbook.pdf](http://wspwit01.ci.tacoma.wa.us/download/PDF/Traffic_Control_Handbook.pdf)



SAMPLE SETUP

Note: At night, signage and barricades must be Type C steady burn lights. A contractor may close a nonarterial street to through traffic, provided that local access is maintained at all times with a minimum of a 20' wide access lane. Road Work Ahead signs may be eliminated on non-arterial streets.



NON-ARTERIAL ROAD CLOSURES

APPROVED BY: \_\_\_\_\_  
 APPROVED WITH CONDITIONS BY: \_\_\_\_\_ DATE: \_\_\_\_\_

START TRAFFIC CONTROL SET UP DATE: \_\_\_\_\_ OFF PEAK 9:00 AM WEEKDAYS  
 MUST BE OUT OF THE ROAD BY DATE: \_\_\_\_\_ OFF PEAK 3:30 PM WEEKDAYS

EVENING AND WEEKENDS ONLY

START TRAFFIC CONTROL SET UP DATE & TIME: \_\_\_\_\_  
 MUST BE OUT OF THE ROAD BY DATE & TIME: \_\_\_\_\_

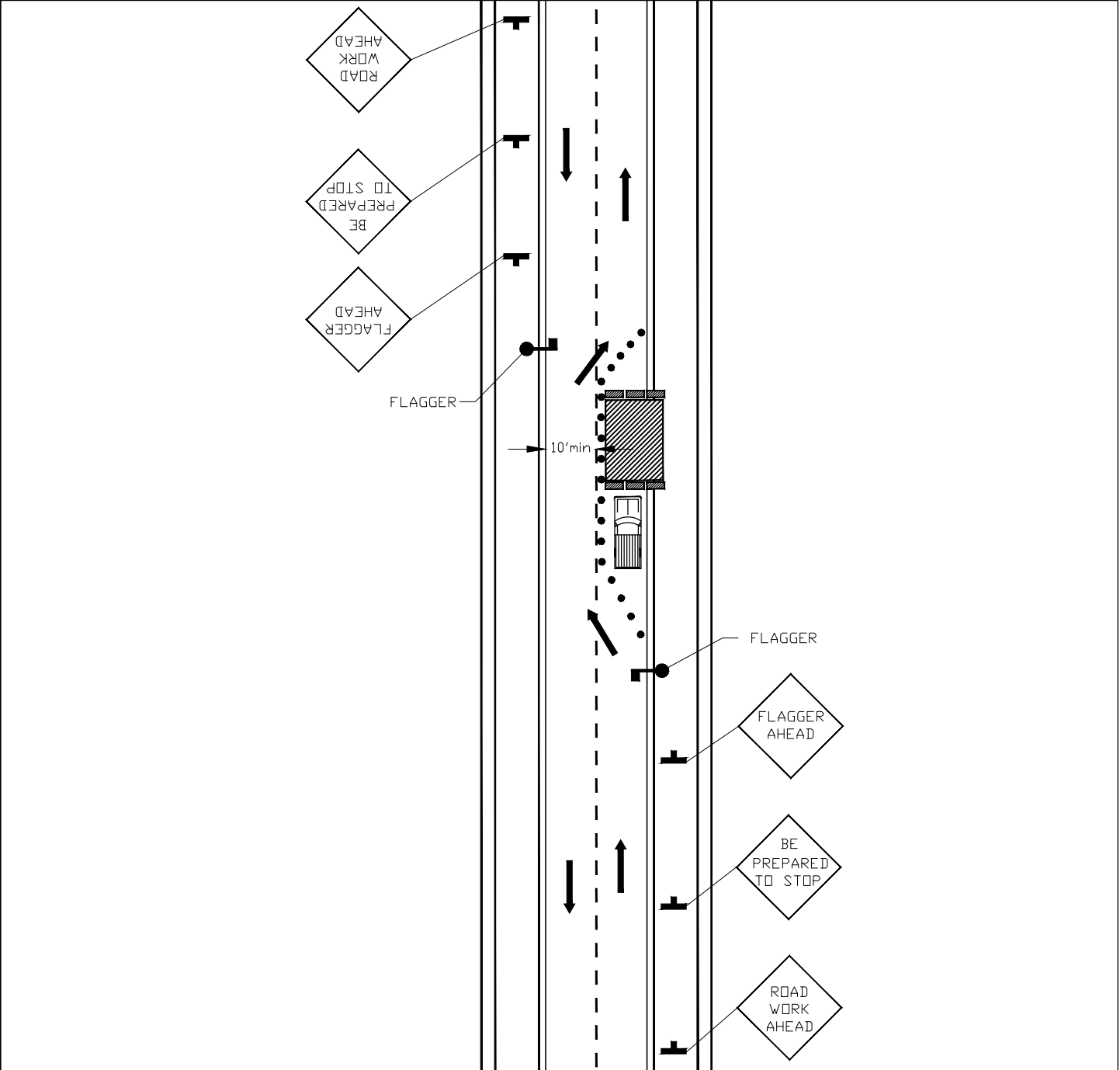
MERGING TAPER LENGTHS FOR CONE PATTERN  
 (All minimums)

MPH	10	15	20	25	30	35	40
8'	14	30	54	84	120	164	214
10'	17	38	67	105	150	204	267
12'	20	45	80	125	180	245	320
14'	24	53	94	146	210	286	374
16'	27	60	107	167	240	327	427

NUMBER OF CHANNELIZATION DEVICES (CONES)  
 Offset cones 1 foot maximum.

NOTE 1: MAINTAIN LOCAL ACCESS AND PROTECTED WALKWAYS AT ALL TIMES. PROVIDE AND MAINTAIN BARRICADES, SIGNS, LIGHTS, ETC., AS PER "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AT ALL TIMES. STREETS AND WALKWAYS SHALL BE KEPT CLEAR OF DEBRIS DROPPED OR TRACKED BY VEHICLES ENTERING OR EXITING THE WORK SITE. FAILURE TO COMPLY WILL RESULT IN A STOP WORK ORDER AND/OR CITATION.  
 NOTE 2: NO WORK SHALL BE SCHEDULED ON STREETS OR WALKWAYS WITHIN THE CITY OF TACOMA BUSINESS DISTRICTS FROM THANKSGIVING DAY THROUGH NEW YEAR'S DAY.  
 NOTE 3: SIGN SPACING: URBAN LOW SPEED 25-30 MPH SIGNS MUST BE PLACED 100' APART. URBAN HIGH SPEED 35-40 MPH SIGNS MUST BE PLACED 350' APART.

SAMPLE SETUP



SINGLE LANE NON-ARTERIAL  
WITH  
FLAGGER

MERGING TAPER LENGTHS  
FOR CONE PATTERN  
(All minimums)

APPROVED BY: \_\_\_\_\_  
 APPROVED WITH CONDITIONS BY: \_\_\_\_\_ DATE: \_\_\_\_\_

START TRAFFIC CONTROL SET UP DATE: \_\_\_\_\_ OFF PEAK 9:00 AM WEEKDAYS

MUST BE OUT OF THE ROAD BY DATE: \_\_\_\_\_ OFF PEAK 3:30 PM WEEKDAYS

EVENING AND WEEKENDS ONLY

START TRAFFIC CONTROL SET UP DATE & TIME: \_\_\_\_\_

MUST BE OUT OF THE ROAD BY DATE & TIME: \_\_\_\_\_

LANE WIDTH	MPH							
	10	15	20	25	30	35	40	
8'	14	30	54	84	120	164	214	
10'	17	38	67	105	150	204	267	
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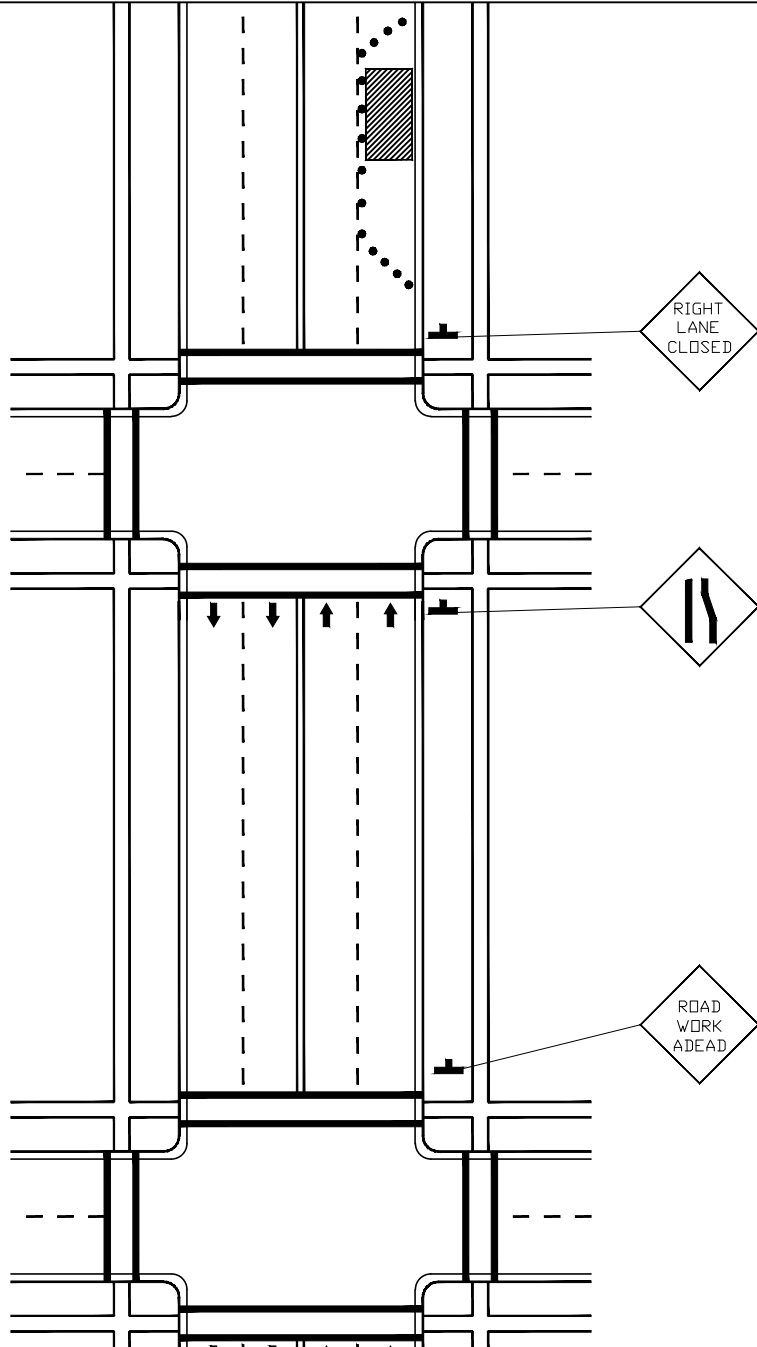
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NOTE 3: SIGN SPACING: URBAN LOW SPEED 25-30 MPH SIGNS MUST BE PLACED 100' APART. URBAN HIGH SPEED 35-40 MPH SIGNS MUST BE PLACED 350' APART.

SAMPLE SETUP



CBD  
RIGHT LANE  
CLOSURE

APPROVED BY: \_\_\_\_\_  
 APPROVED WITH CONDITIONS BY: \_\_\_\_\_ DATE: \_\_\_\_\_

START TRAFFIC CONTROL SET UP DATE: \_\_\_\_\_ OFF PEAK 9:00 AM WEEKDAYS  
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EVENING AND WEEKENDS ONLY

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MERGING TAPER LENGTHS  
FOR CONE PATTERN  
(All minimums)

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LANE WIDTH

NUMBER OF CHANNELIZATION DEVICES (CONES)

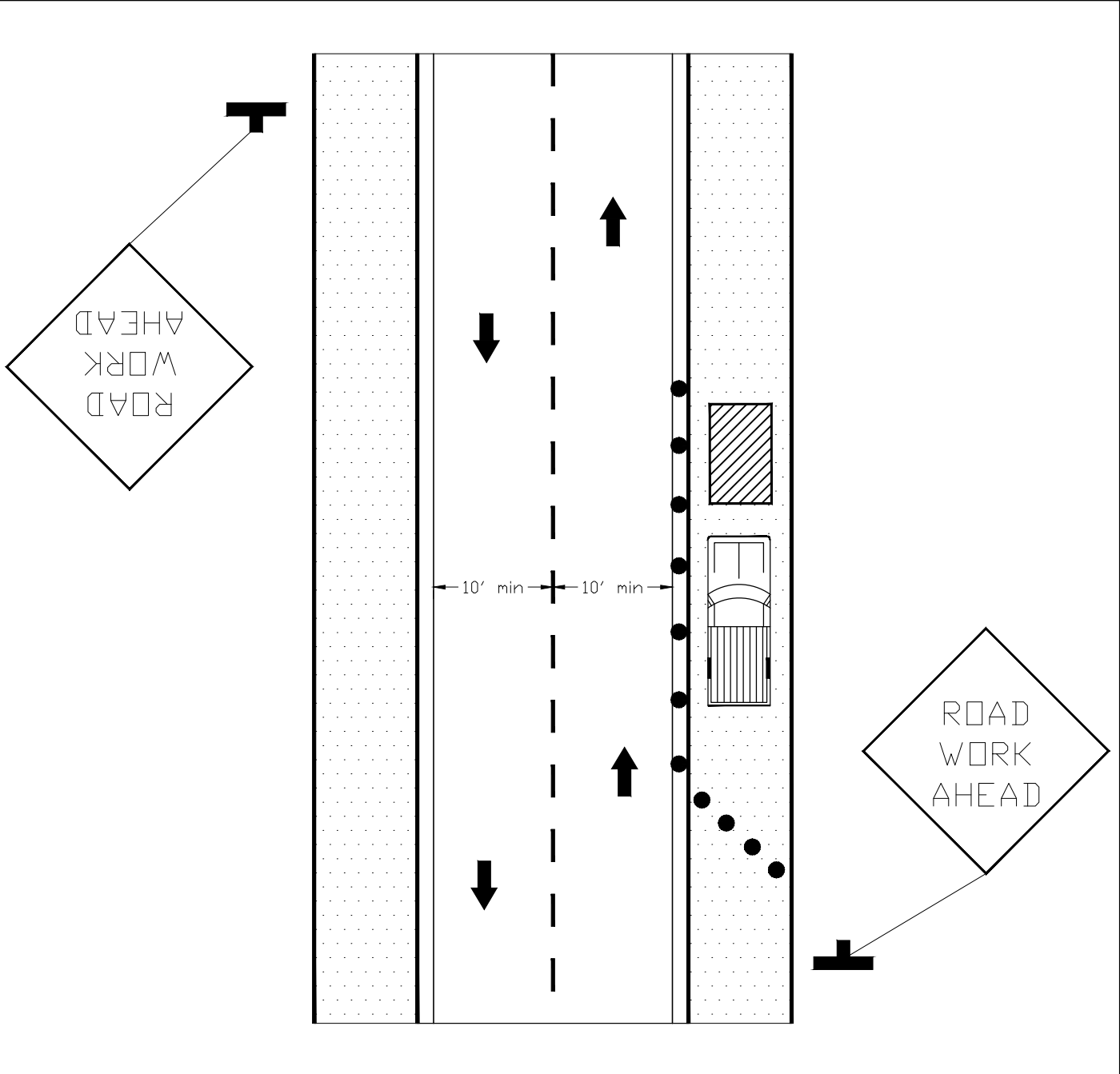
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SAMPLE SETUP



SHOULDER WORK  
WITH MINOR  
ENCROACHMENT

APPROVED BY: \_\_\_\_\_  
 APPROVED WITH CONDITIONS BY: \_\_\_\_\_ DATE: \_\_\_\_\_

START TRAFFIC CONTROL SET UP DATE: \_\_\_\_\_ OFF PEAK 9:00 AM WEEKDAYS

MUST BE OUT OF THE ROAD BY DATE: \_\_\_\_\_ OFF PEAK 3:30 PM WEEKDAYS

EVENING AND WEEKENDS ONLY

START TRAFFIC CONTROL SET UP DATE & TIME: \_\_\_\_\_

MUST BE OUT OF THE ROAD BY DATE & TIME: \_\_\_\_\_

MERGING TAPER LENGTHS  
FOR CONE PATTERN  
(All minimums)

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LANE WIDTH

NUMBER OF CHANNELIZATION DEVICES (CONES)

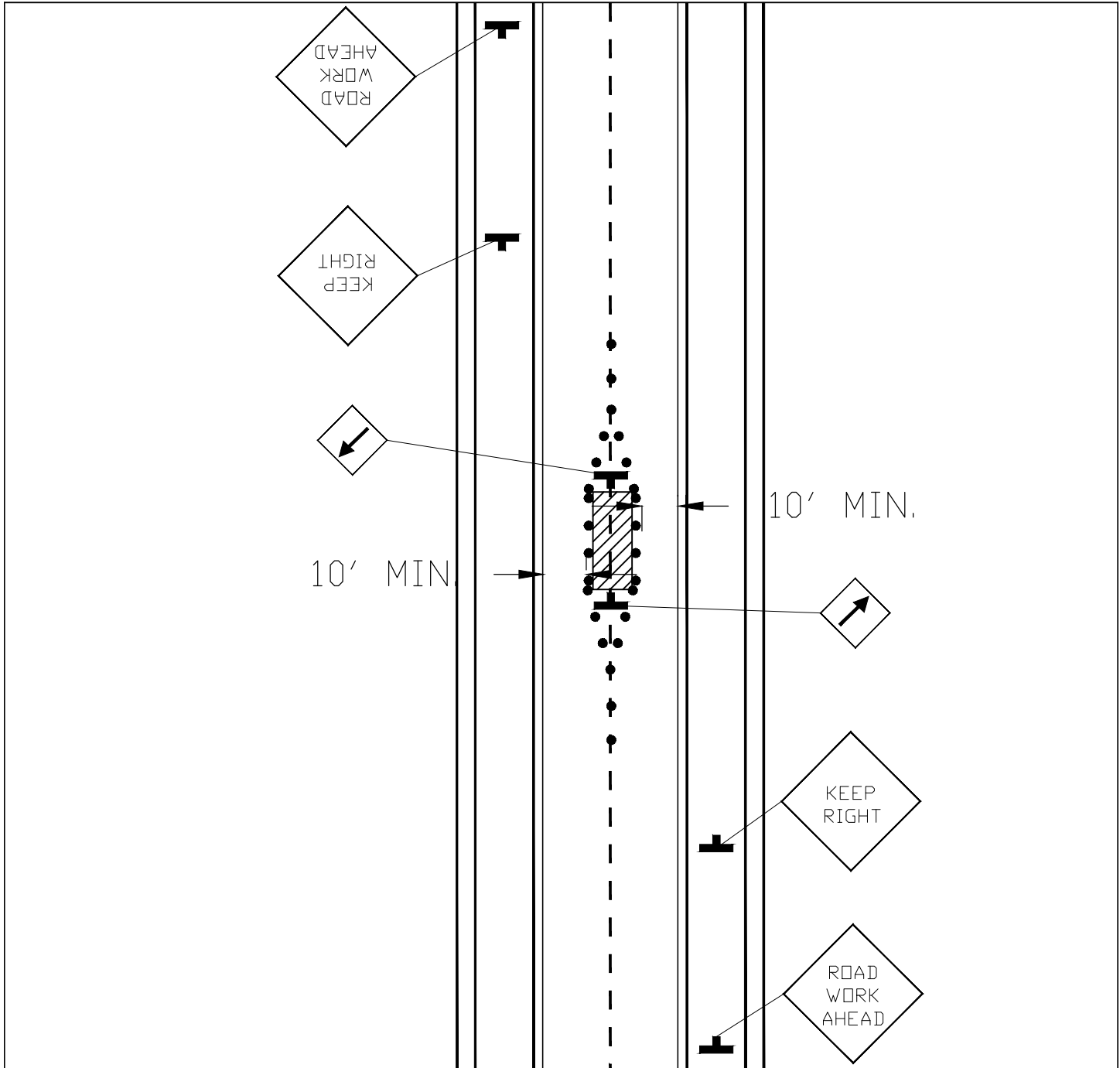
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SAMPLE SETUP



TWO LANE CENTER CLOSURE

MERGING TAPER LENGTHS FOR CONE PATTERN  
(All minimums)

APPROVED BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
 APPROVED WITH CONDITIONS BY: \_\_\_\_\_ DATE: \_\_\_\_\_

START TRAFFIC CONTROL SET UP DATE: \_\_\_\_\_ OFF PEAK 9:00 AM WEEKDAYS

MUST BE OUT OF THE ROAD BY DATE: \_\_\_\_\_ OFF PEAK 3:30 PM WEEKDAYS

EVENING AND WEEKENDS ONLY

START TRAFFIC CONTROL SET UP DATE & TIME: \_\_\_\_\_

MUST BE OUT OF THE ROAD BY DATE & TIME: \_\_\_\_\_

MPH	10	15	20	25	30	35	40
8'	14	30	54	84	120	164	214
10'	17	38	67	105	150	204	267
12'	20	45	80	125	180	245	320
14'	24	53	94	146	210	286	374
16'	27	60	107	167	240	327	427

LANE WIDTH

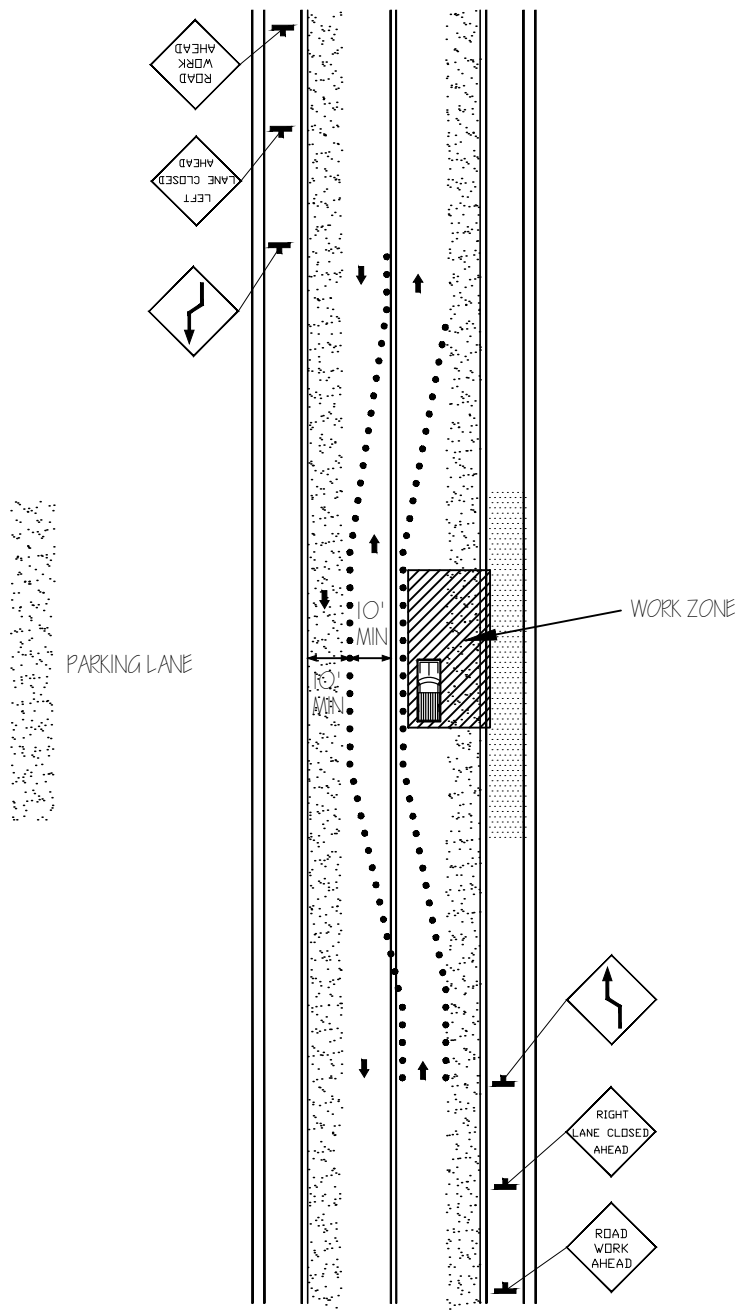
NUMBER OF CHANNELIZATION DEVICES (CONES)  
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# SAMPLE SETUP



## TWO WAY LANE SHIFT WITH PARKING

### MERGING TAPER LENGTHS FOR CONE PATTERN (All minimums)

APPROVED BY: \_\_\_\_\_  
 APPROVED WITH CONDITIONS BY: \_\_\_\_\_ DATE: \_\_\_\_\_

START TRAFFIC CONTROL SET UP DATE: \_\_\_\_\_ OFF PEAK 9:00 AM WEEKDAYS

MUST BE OUT OF THE ROAD BY DATE: \_\_\_\_\_ OFF PEAK 3:30 PM WEEKDAYS

EVENING AND WEEKENDS ONLY

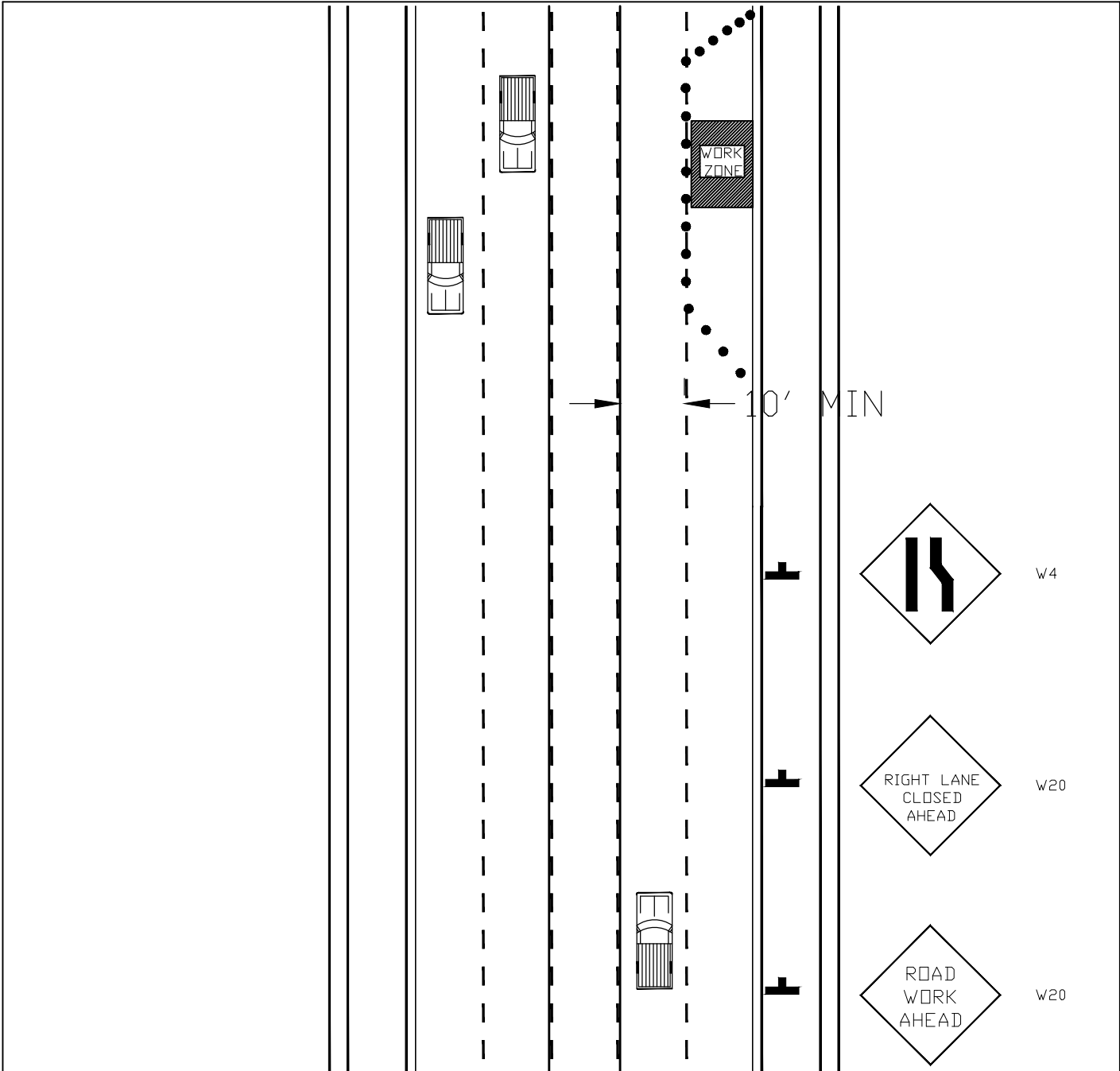
START TRAFFIC CONTROL SET UP DATE & TIME: \_\_\_\_\_

MUST BE OUT OF THE ROAD BY DATE & TIME: \_\_\_\_\_

LANE WIDTH	MPH							
	10	15	20	25	30	35	40	
8'	14	30	54	84	120	164	214	
10'	17	38	67	105	150	204	267	
12'	20	45	80	125	180	245	320	
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16'	27	60	107	167	240	327	427	
NUMBER OF CHANNELIZATION DEVICES (CONES)								
Offset cones 1 foot maximum.								

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SAMPLE SETUP



RIGHT LANE  
CLOSURE

MERGING TAPER LENGTHS  
FOR CONE PATTERN  
(All minimums)

APPROVED BY: \_\_\_\_\_  
 APPROVED WITH CONDITIONS BY: \_\_\_\_\_ DATE: \_\_\_\_\_

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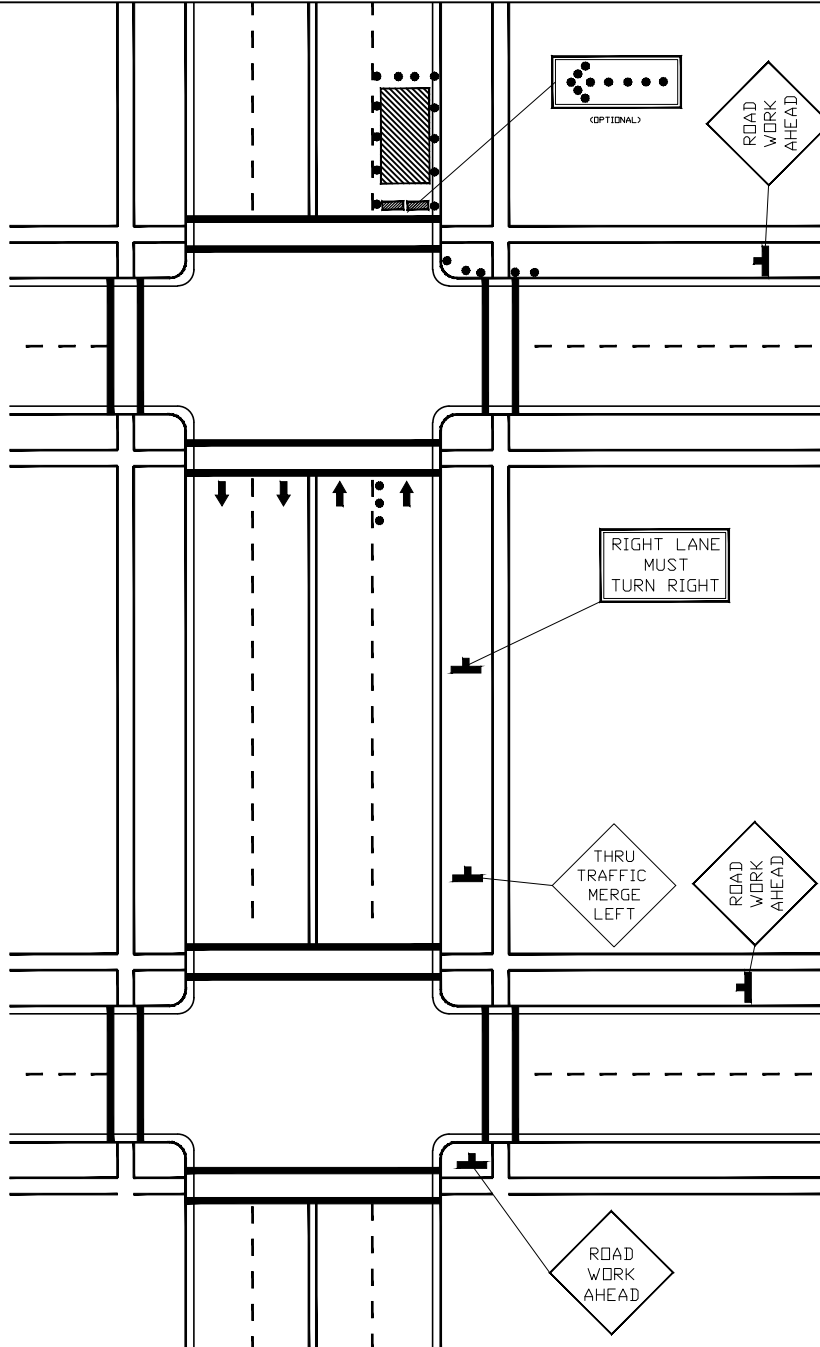
EVENING AND WEEKENDS ONLY

START TRAFFIC CONTROL SET UP DATE & TIME: \_\_\_\_\_  
 MUST BE OUT OF THE ROAD BY DATE & TIME: \_\_\_\_\_

MPH	10	15	20	25	30	35	40
8'	14	30	54	84	120	164	214
10'	17	38	67	105	150	204	267
12'	20	45	80	125	180	245	320
14'	24	53	94	146	210	286	374
16'	27	60	107	167	240	327	427
NUMBER OF CHANNELIZATION DEVICES (CONES)							
Offset cones 1 foot maximum.							

NOTE 1: MAINTAIN LOCAL ACCESS AND PROTECTED WALKWAYS AT ALL TIMES. PROVIDE AND MAINTAIN BARRICADES, SIGNS, LIGHTS, ETC., AS PER "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AT ALL TIMES. STREETS AND WALKWAYS SHALL BE KEPT CLEAR OF DEBRIS DROPPED OR TRACKED BY VEHICLES ENTERING OR EXITING THE WORK SITE. FAILURE TO COMPLY WILL RESULT IN A STOP WORK ORDER AND/OR CITATION.  
 NOTE 2: NO WORK SHALL BE SCHEDULED ON STREETS OR WALKWAYS WITHIN THE CITY OF TACOMA BUSINESS DISTRICTS FROM THANKSGIVING DAY THROUGH NEW YEAR'S DAY.  
 NOTE 3: SIGN SPACING: URBAN LOW SPEED 25-30 MPH SIGNS MUST BE PLACED 100' APART. URBAN HIGH SPEED 35-40 MPH SIGNS MUST BE PLACED 350' APART.

SAMPLE SETUP



RIGHT LANE  
CLOSURE  
AT INTERSECTION

APPROVED BY: \_\_\_\_\_  
 APPROVED WITH CONDITIONS BY: \_\_\_\_\_ DATE: \_\_\_\_\_

START TRAFFIC CONTROL SET UP DATE: \_\_\_\_\_ OFF PEAK 9:00 AM WEEKDAYS  
 MUST BE OUT OF THE ROAD BY DATE: \_\_\_\_\_ OFF PEAK 3:30 PM WEEKDAYS

EVENING AND WEEKENDS ONLY

START TRAFFIC CONTROL SET UP DATE & TIME: \_\_\_\_\_  
 MUST BE OUT OF THE ROAD BY DATE & TIME: \_\_\_\_\_

MERGING TAPER LENGTHS  
FOR CONE PATTERN  
(All minimums)

MPH	10	15	20	25	30	35	40
8'	14	30	54	84	120	164	214
10'	17	38	67	105	150	204	267
12'	20	45	80	125	180	245	320
14'	24	53	94	146	210	286	374
16'	27	60	107	167	240	327	427

LANE WIDTH

NUMBER OF CHANNELIZATION DEVICES (CONES)

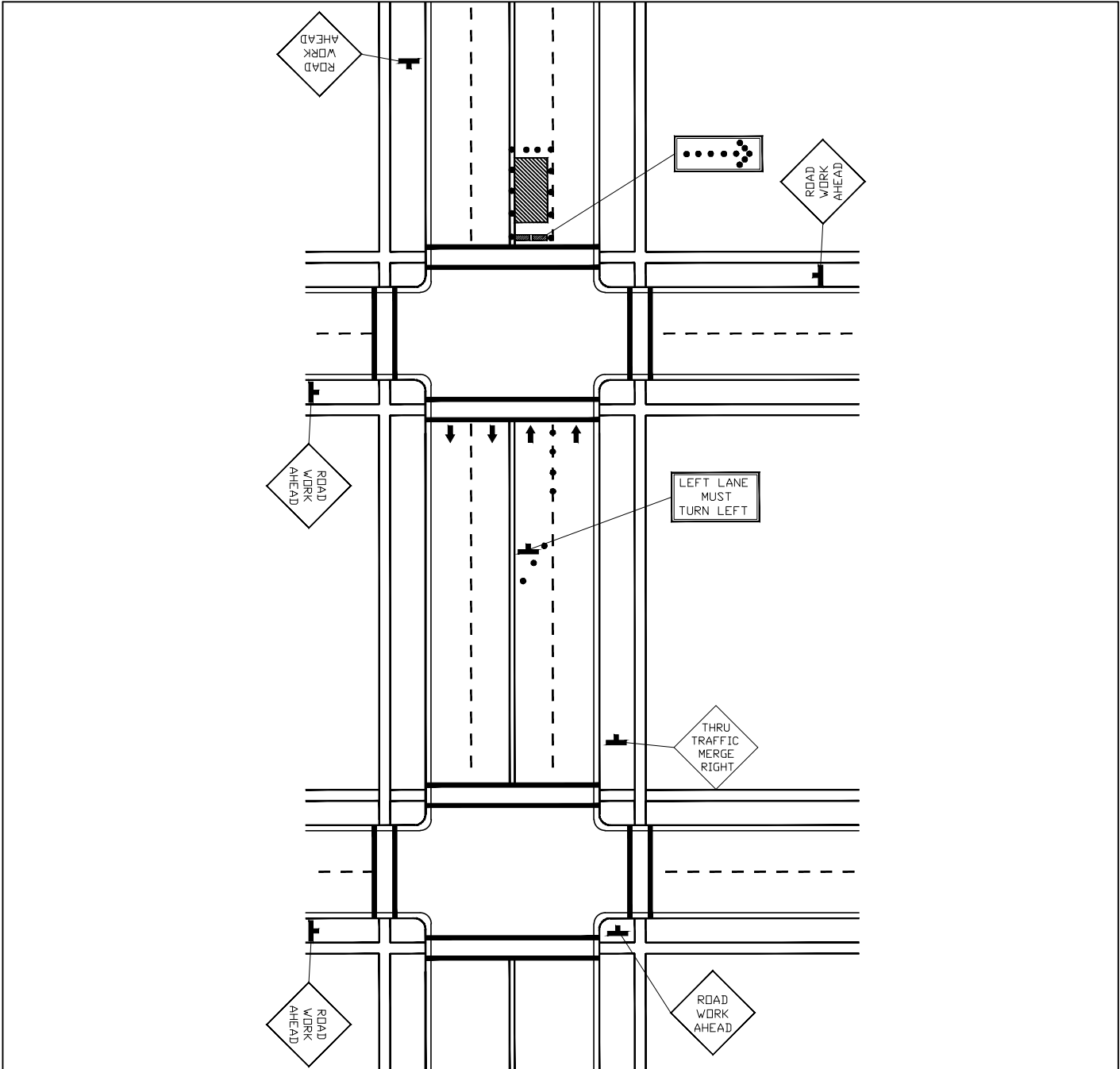
Offset cones 1 foot maximum.

**NOTE 1:** MAINTAIN LOCAL ACCESS AND PROTECTED WALKWAYS AT ALL TIMES. PROVIDE AND MAINTAIN BARRICADES, SIGNS, LIGHTS, ETC., AS PER "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AT ALL TIMES. STREETS AND WALKWAYS SHALL BE KEPT CLEAR OF DEBRIS DROPPED OR TRACKED BY VEHICLES ENTERING OR EXITING THE WORK SITE. FAILURE TO COMPLY WILL RESULT IN A STOP WORK ORDER AND/OR CITATION.

**NOTE 2:** NO WORK SHALL BE SCHEDULED ON STREETS OR WALKWAYS WITHIN THE CITY OF TACOMA BUSINESS DISTRICTS FROM THANKSGIVING DAY THROUGH NEW YEAR'S DAY.

**NOTE 3:** SIGN SPACING: URBAN LOW SPEED 25-30 MPH SIGNS MUST BE PLACED 100' APART. URBAN HIGH SPEED 35-40 MPH SIGNS MUST BE PLACED 350' APART.

SAMPLE SETUP



LEFT LANE  
CLOSURE  
AT INTERSECTION

APPROVED BY: \_\_\_\_\_  
 APPROVED WITH CONDITIONS BY: \_\_\_\_\_ DATE: \_\_\_\_\_

START TRAFFIC CONTROL SET UP DATE: \_\_\_\_\_ OFF PEAK 9:00 AM WEEKDAYS  
 MUST BE OUT OF THE ROAD BY DATE: \_\_\_\_\_ OFF PEAK 3:30 PM WEEKDAYS

EVENING AND WEEKENDS ONLY

START TRAFFIC CONTROL SET UP DATE & TIME: \_\_\_\_\_  
 MUST BE OUT OF THE ROAD BY DATE & TIME: \_\_\_\_\_

MERGING TAPER LENGTHS  
FOR CONE PATTERN

(All minimums)

MPH	10	15	20	25	30	35	40
8'	14	30	54	84	120	164	214
10'	17	38	67	105	150	204	267
12'	20	45	80	125	180	245	320
14'	24	53	94	146	210	286	374
16'	27	60	107	167	240	327	427

LANE WIDTH

NUMBER OF CHANNELIZATION DEVICES (CONES)

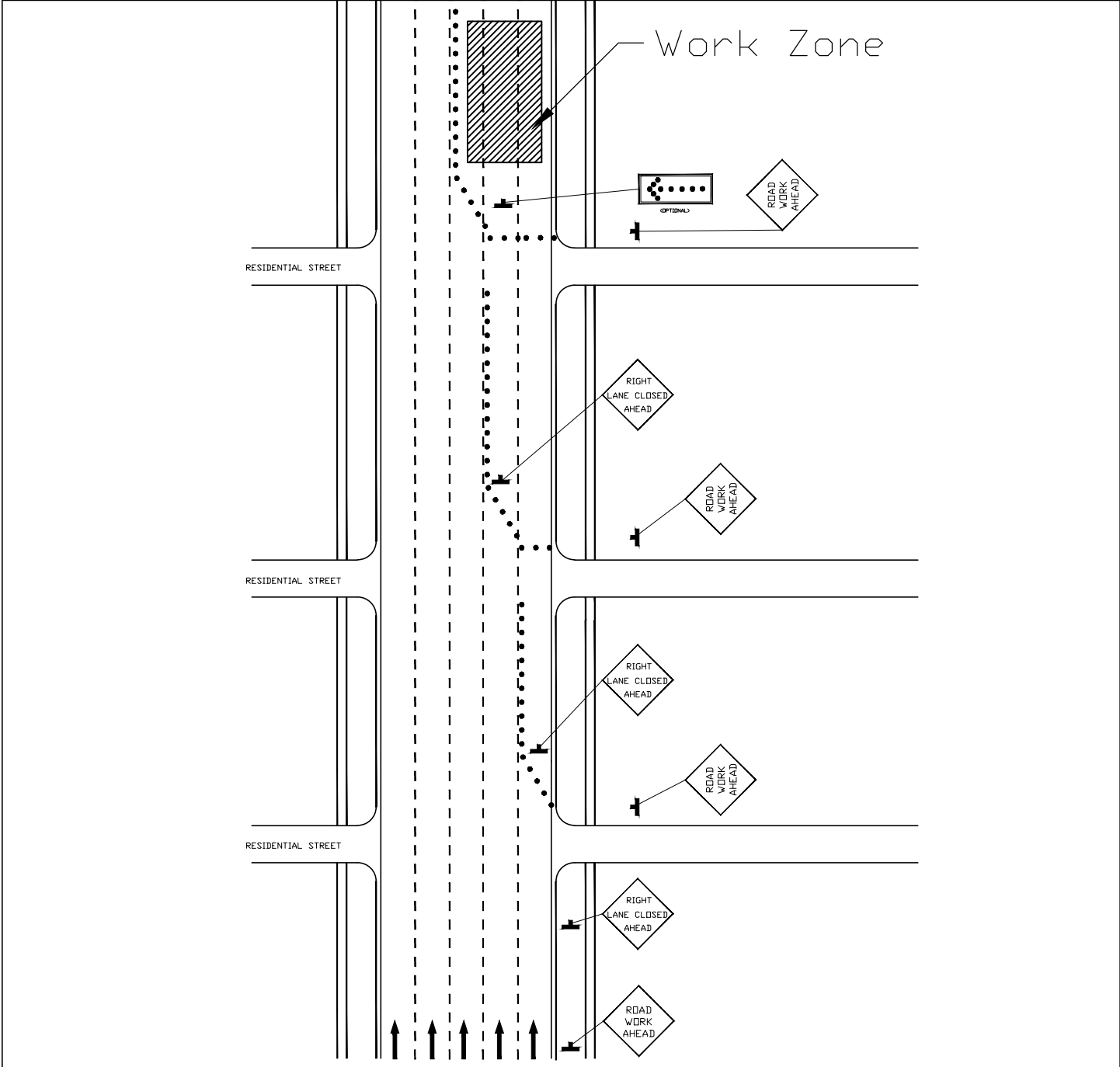
Offset cones 1 foot maximum.

**NOTE 1:** MAINTAIN LOCAL ACCESS AND PROTECTED WALKWAYS AT ALL TIMES. PROVIDE AND MAINTAIN BARRICADES, SIGNS, LIGHTS, ETC, AS PER "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AT ALL TIMES. STREETS AND WALKWAYS SHALL BE KEPT CLEAR OF DEBRIS DROPPED OR TRACKED BY VEHICLES ENTERING OR EXITING THE WORK SITE. FAILURE TO COMPLY WILL RESULT IN A STOP WORK ORDER AND/OR CITATION.

**NOTE 2:** NO WORK SHALL BE SCHEDULED ON STREETS OR WALKWAYS WITHIN THE CITY OF TACOMA BUSINESS DISTRICTS FROM THANKSGIVING DAY THROUGH NEW YEAR'S DAY.

**NOTE 3:** SIGN SPACING: URBAN LOW SPEED 25-30 MPH SIGNS MUST BE PLACED 100' APART. URBAN HIGH SPEED 35-40 MPH SIGNS MUST BE PLACED 350' APART.

SAMPLE SETUP



ONE WAY  
MULTI-LANE  
CLOSURE

MERGING TAPER LENGTHS  
FOR CONE PATTERN  
(All minimums)

MPH	10	15	20	25	30	35	40
8'	14	30	54	84	120	164	214
10'	17	38	67	105	150	204	267
12'	20	45	80	125	180	245	320
14'	24	53	94	146	210	286	374
16'	27	60	107	167	240	327	427

LANE WIDTH

NUMBER OF CHANNELIZATION DEVICES (CONES)

Offset cones 1 foot maximum.

APPROVED BY: \_\_\_\_\_  
 APPROVED WITH CONDITIONS BY: \_\_\_\_\_ DATE: \_\_\_\_\_

START TRAFFIC CONTROL SET UP DATE: \_\_\_\_\_ OFF PEAK 9:00 AM WEEKDAYS

MUST BE OUT OF THE ROAD BY DATE: \_\_\_\_\_ OFF PEAK 3:30 PM WEEKDAYS

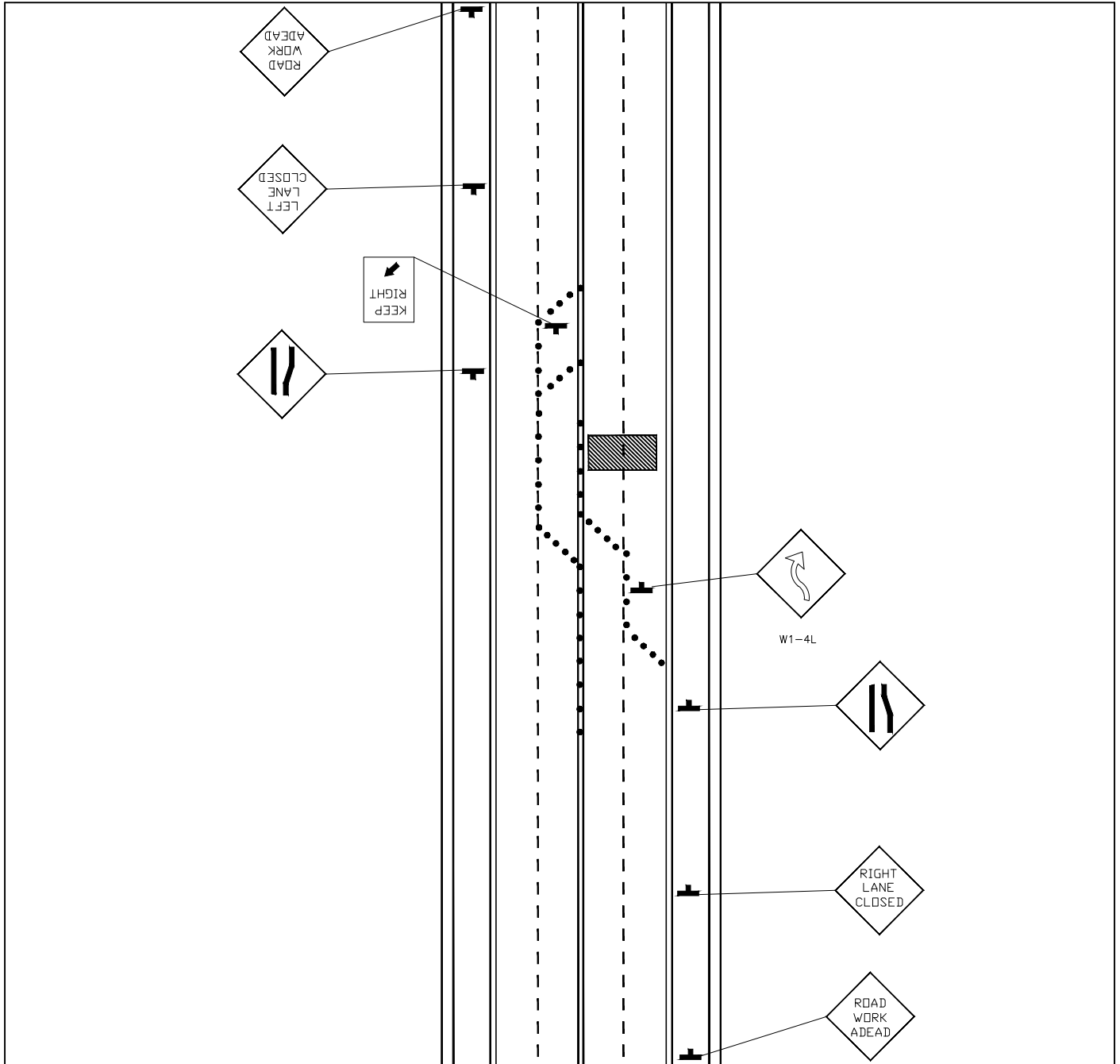
EVENING AND WEEKENDS ONLY

START TRAFFIC CONTROL SET UP DATE & TIME: \_\_\_\_\_

MUST BE OUT OF THE ROAD BY DATE & TIME: \_\_\_\_\_

NOTE 1: MAINTAIN LOCAL ACCESS AND PROTECTED WALKWAYS AT ALL TIMES. PROVIDE AND MAINTAIN BARRICADES, SIGNS, LIGHTS, ETC, AS PER "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AT ALL TIMES. STREETS AND WALKWAYS SHALL BE KEPT CLEAR OF DEBRIS DROPPED OR TRACKED BY VEHICLES ENTERING OR EXITING THE WORK SITE. FAILURE TO COMPLY WILL RESULT IN A STOP WORK ORDER AND/OR CITATION.  
 NOTE 2: NO WORK SHALL BE SCHEDULED ON STREETS OR WALKWAYS WITHIN THE CITY OF TACOMA BUSINESS DISTRICTS FROM THANKSGIVING DAY THROUGH NEW YEAR'S DAY.  
 NOTE 3: SIGN SPACING: URBAN LOW SPEED 25-30 MPH SIGNS MUST BE PLACED 100' APART. URBAN HIGH SPEED 35-40 MPH SIGNS MUST BE PLACED 350' APART.

SAMPLE SETUP



FOUR LANE ROAD  
TWO LANE CLOSURE  
ARTERIAL STREET

MERGING TAPER LENGTHS  
FOR CONE PATTERN  
(All minimums)

MPH	10	15	20	25	30	35	40
8'	14	30	54	84	120	164	214
10'	17	38	67	105	150	204	267
12'	20	45	80	125	180	245	320
14'	24	53	94	146	210	286	374
16'	27	60	107	167	240	327	427

NUMBER OF CHANNELIZATION DEVICES (CONES)  
Offset cones 1 foot maximum.

APPROVED BY: \_\_\_\_\_  
 APPROVED WITH CONDITIONS BY: \_\_\_\_\_ DATE: \_\_\_\_\_

START TRAFFIC CONTROL SET UP DATE: \_\_\_\_\_ OFF PEAK 9:00 AM WEEKDAYS

MUST BE OUT OF THE ROAD BY DATE: \_\_\_\_\_ OFF PEAK 3:30 PM WEEKDAYS

EVENING AND WEEKENDS ONLY

START TRAFFIC CONTROL SET UP DATE & TIME: \_\_\_\_\_

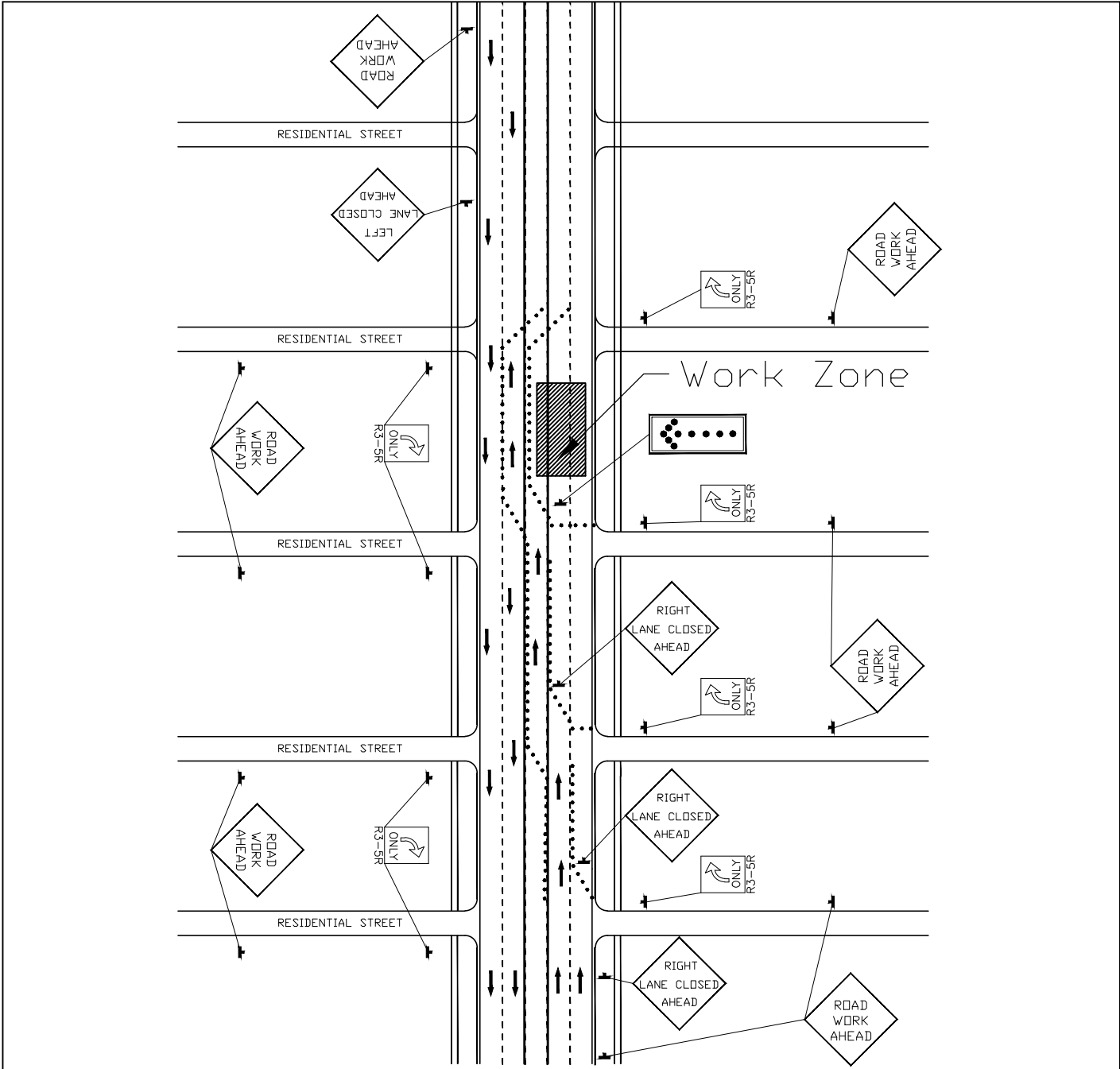
MUST BE OUT OF THE ROAD BY DATE & TIME: \_\_\_\_\_

NOTE 1: MAINTAIN LOCAL ACCESS AND PROTECTED WALKWAYS AT ALL TIMES. PROVIDE AND MAINTAIN BARRICADES, SIGNS, LIGHTS, ETC., AS PER "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AT ALL TIMES. STREETS AND WALKWAYS SHALL BE KEPT CLEAR OF DEBRIS DROPPED OR TRACKED BY VEHICLES ENTERING OR EXITING THE WORK SITE. FAILURE TO COMPLY WILL RESULT IN A STOP WORK ORDER AND/OR CITATION.

NOTE 2: NO WORK SHALL BE SCHEDULED ON STREETS OR WALKWAYS WITHIN THE CITY OF TACOMA BUSINESS DISTRICTS FROM THANKSGIVING DAY THROUGH NEW YEAR'S DAY.

NOTE 3: SIGN SPACING: URBAN LOW SPEED 25-30 MPH SIGNS MUST BE PLACED 100' APART. URBAN HIGH SPEED 35-40 MPH SIGNS MUST BE PLACED 350' APART.

SAMPLE SETUP



FIVE LANE ROAD  
MULTI-LANE  
CLOSURE

APPROVED BY: \_\_\_\_\_  
 APPROVED WITH CONDITIONS BY: \_\_\_\_\_ DATE: \_\_\_\_\_

START TRAFFIC CONTROL SET UP DATE: \_\_\_\_\_ OFF PEAK 9:00 AM WEEKDAYS

MUST BE OUT OF THE ROAD BY DATE: \_\_\_\_\_ OFF PEAK 3:30 PM WEEKDAYS

EVENING AND WEEKENDS ONLY

START TRAFFIC CONTROL SET UP DATE & TIME: \_\_\_\_\_

MUST BE OUT OF THE ROAD BY DATE & TIME: \_\_\_\_\_

MERGING TAPER LENGTHS  
FOR CONE PATTERN

(All minimums)

MPH	10	15	20	25	30	35	40
8'	14	30	54	84	120	164	214
10'	17	38	67	105	150	204	267
12'	20	45	80	125	180	245	320
14'	24	53	94	146	210	286	374
16'	27	60	107	167	240	327	427

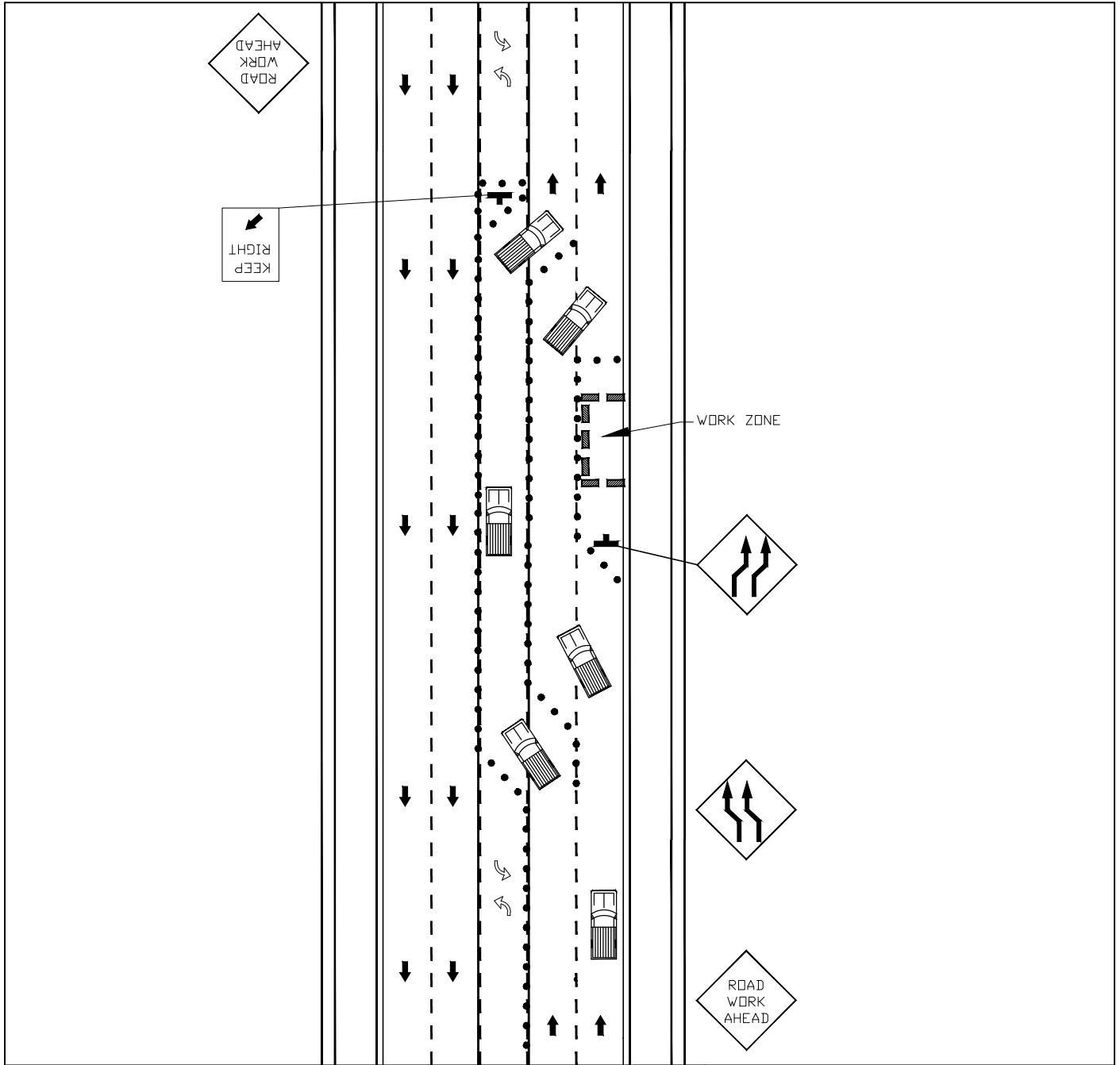
LANE WIDTH  
 NUMBER OF CHANNELIZATION DEVICES (CONES)  
 Offset cones 1 foot maximum.

NOTE 1: MAINTAIN LOCAL ACCESS AND PROTECTED WALKWAYS AT ALL TIMES. PROVIDE AND MAINTAIN BARRICADES, SIGNS, LIGHTS, ETC., AS PER "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AT ALL TIMES. STREETS AND WALKWAYS SHALL BE KEPT CLEAR OF DEBRIS DROPPED OR TRACKED BY VEHICLES ENTERING OR EXITING THE WORK SITE. FAILURE TO COMPLY WILL RESULT IN A STOP WORK ORDER AND/OR CITATION.

NOTE 2: NO WORK SHALL BE SCHEDULED ON STREETS OR WALKWAYS WITHIN THE CITY OF TACOMA BUSINESS DISTRICTS FROM THANKSGIVING DAY THROUGH NEW YEAR'S DAY.

NOTE 3: SIGN SPACING: URBAN LOW SPEED 25-30 MPH SIGNS MUST BE PLACED 100' APART. URBAN HIGH SPEED 35-40 MPH SIGNS MUST BE PLACED 350' APART.

SAMPLE SETUP



TRAFFIC CONTROL FOR 5 LANE SHIFTING

APPROVED BY: \_\_\_\_\_

APPROVED WITH CONDITIONS BY: \_\_\_\_\_ DATE: \_\_\_\_\_

START TRAFFIC CONTROL SET UP DATE: \_\_\_\_\_ OFF PEAK 9:00 AM WEEKDAYS

MUST BE OUT OF THE ROAD BY DATE: \_\_\_\_\_ OFF PEAK 3:30 PM WEEKDAYS

EVENING AND WEEKENDS ONLY

START TRAFFIC CONTROL SET UP DATE & TIME: \_\_\_\_\_

MUST BE OUT OF THE ROAD BY DATE & TIME: \_\_\_\_\_

MERGING TAPER LENGTHS FOR CONE PATTERN

(All minimums)

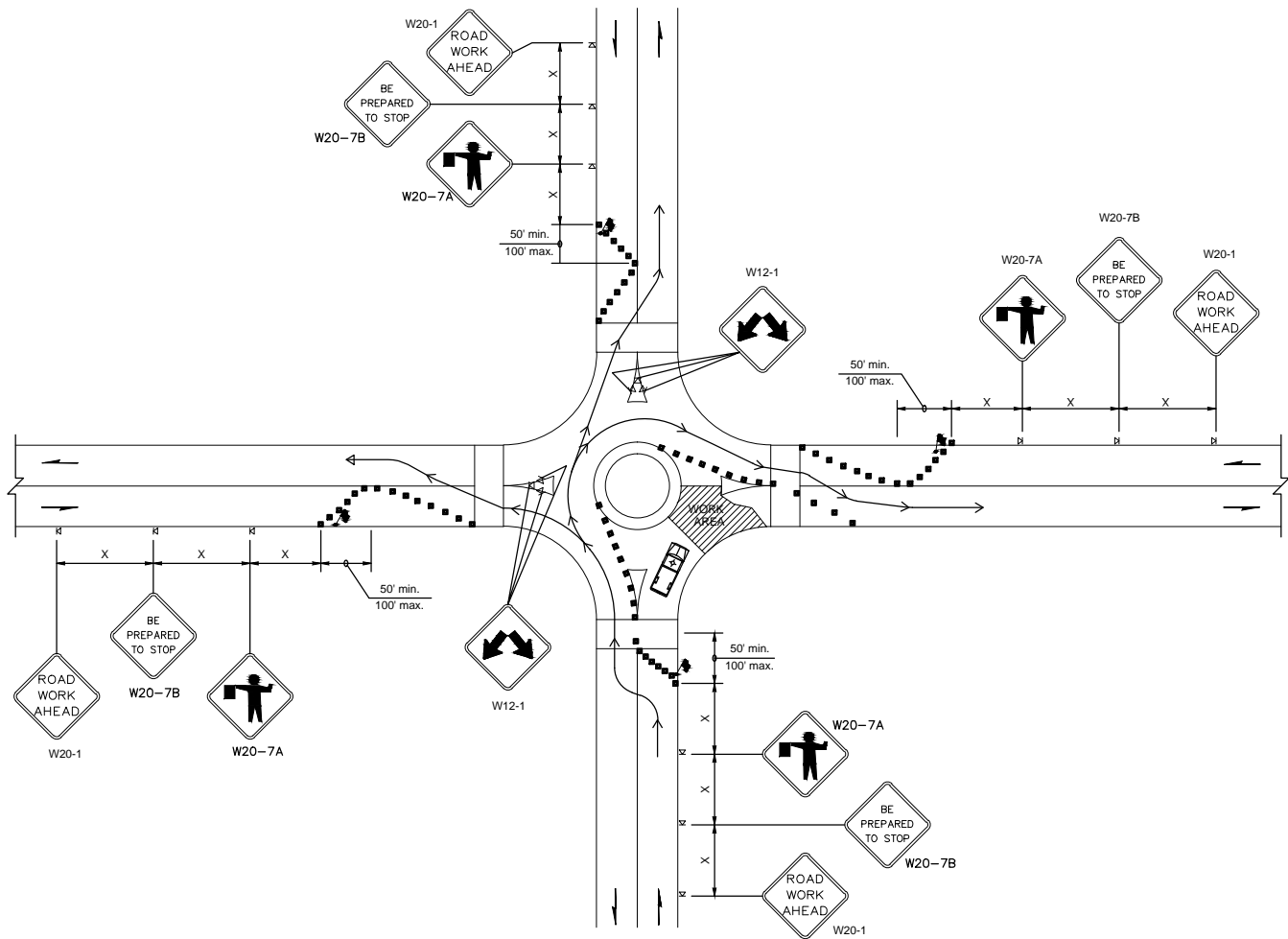
MPH	10	15	20	25	30	35	40
8'	14	30	54	84	120	164	214
10'	17	38	67	105	150	204	267
12'	20	45	80	125	180	245	320
14'	24	53	94	146	210	286	374
16'	27	60	107	167	240	327	427

NUMBER OF CHANNELIZATION DEVICES (CONES)  
Offset cones 1 foot maximum.

NOTE 1: MAINTAIN LOCAL ACCESS AND PROTECTED WALKWAYS AT ALL TIMES. PROVIDE AND MAINTAIN BARRICADES, SIGNS, LIGHTS, ETC., AS PER "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AT ALL TIMES. STREETS AND WALKWAYS SHALL BE KEPT CLEAR OF DEBRIS DROPPED OR TRACKED BY VEHICLES ENTERING OR EXITING THE WORK SITE. FAILURE TO COMPLY WILL RESULT IN A STOP WORK ORDER AND/OR CITATION.

NOTE 2: NO WORK SHALL BE SCHEDULED ON STREETS OR WALKWAYS WITHIN THE CITY OF TACOMA BUSINESS DISTRICTS FROM THANKSGIVING DAY THROUGH NEW YEAR'S DAY.

NOTE 3: SIGN SPACING: URBAN LOW SPEED 25-30 MPH SIGNS MUST BE PLACED 100' APART. URBAN HIGH SPEED 35-40 MPH SIGNS MUST BE PLACED 350' APART.



**LEGEND**

1. Night work requires additional roadway lighting at flagging stations, refer to WSDOT Standard Specifications for additional details
2. Protective vehicle recommended – may be a work vehicle.
3. Each roundabout location is unique and the traffic control must be developed to meet the specific conditions of the location and the work operation.
4. If the work and all work vehicles are off of the travel lanes and island apron, a single Road Work Ahead sign per approach is all that is required. Refer to additional guidance in the MUTCD manual for further information.
5. Consider an additional flagger in center island to assist traffic movement through roundabout or additional signing as appropriate.

**LEGEND**

- FLAGGING STATION
- SIGN LOCATION
- CHANNELIZING DEVICES
- PROTECTIVE VEHICLE – RECOMMENDED
- VEHICLE TRAVEL PATH DURING A FLAGGING PHASE

*TPYICAL ROUNDABOUT  
TRAFFIC CONTROL  
WITH FLAGGERS*

APPROVED BY: \_\_\_\_\_

APPROVED WITH CONDITIONS BY: \_\_\_\_\_ DATE: \_\_\_\_\_

START TRAFFIC CONTROL SET UP DATE: \_\_\_\_\_ OFF PEAK 9:00 AM WEEKDAYS

MUST BE OUT OF THE ROAD BY DATE: \_\_\_\_\_ OFF PEAK 3:30 PM WEEKDAYS

EVENING AND WEEKENDS ONLY

START TRAFFIC CONTROL SET UP DATE & TIME: \_\_\_\_\_

MUST BE OUT OF THE ROAD BY DATE & TIME: \_\_\_\_\_

**MERGING TAPER LENGTHS  
FOR CONE PATTERN  
(All minimums)**

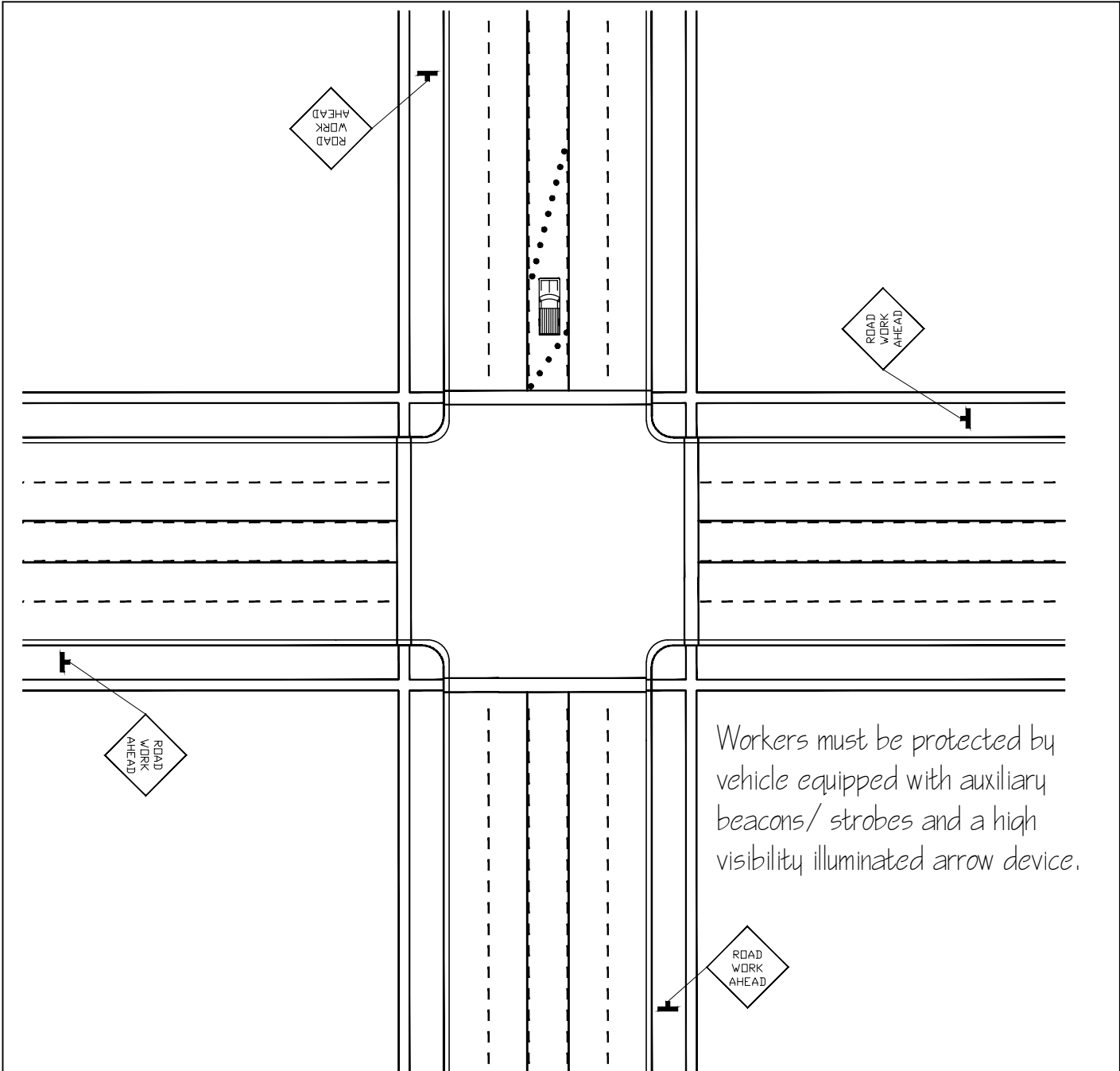
LANE WIDTH	MPH	10	15	20	25	30	35	40
	8'	14	30	54	84	120	164	214
10'	17	38	67	105	150	204	267	
12'	20	45	80	125	180	245	320	
14'	24	53	94	146	210	286	374	
16'	27	60	107	167	240	327	427	
NUMBER OF CHANNELIZATION DEVICES (CONES)								
Offset cones 1 foot maximum.								

**NOTE 1:** MAINTAIN LOCAL ACCESS AND PROTECTED WALKWAYS AT ALL TIMES. PROVIDE AND MAINTAIN BARRICADES, SIGNS, LIGHTS, ETC., AS PER "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AT ALL TIMES. STREETS AND WALKWAYS SHALL BE KEPT CLEAR OF DEBRIS DROPPED OR TRACKED BY VEHICLES ENTERING OR EXITING THE WORK SITE. FAILURE TO COMPLY WILL RESULT IN A STOP WORK ORDER AND/OR CITATION.

**NOTE 2:** NO WORK SHALL BE SCHEDULED ON STREETS OR WALKWAYS WITHIN THE CITY OF TACOMA BUSINESS DISTRICTS FROM THANKSGIVING DAY THROUGH NEW YEAR'S DAY.

**NOTE 3:** SIGN SPACING: URBAN LOW SPEED 25-30 MPH SIGNS MUST BE PLACED 100' APART. URBAN HIGH SPEED 35-40 MPH SIGNS MUST BE PLACED 350' APART.

SAMPLE SETUP



CENTER LANE CLOSURE AT INTERSECTION UNDER 60 MINUTES

APPROVED BY: \_\_\_\_\_  
 APPROVED WITH CONDITIONS BY: \_\_\_\_\_ DATE: \_\_\_\_\_

START TRAFFIC CONTROL SET UP DATE: \_\_\_\_\_ OFF PEAK 9:00 AM WEEKDAYS  
 MUST BE OUT OF THE ROAD BY DATE: \_\_\_\_\_ OFF PEAK 3:30 PM WEEKDAYS

EVENING AND WEEKENDS ONLY

START TRAFFIC CONTROL SET UP DATE & TIME: \_\_\_\_\_  
 MUST BE OUT OF THE ROAD BY DATE & TIME: \_\_\_\_\_

MERGING TAPER LENGTHS FOR CONE PATTERN

(All minimums)

MPH	10	15	20	25	30	35	40
8'	14	30	54	84	120	164	214
10'	17	38	67	105	150	204	267
12'	20	45	80	125	180	245	320
14'	24	53	94	146	210	286	374
16'	27	60	107	167	240	327	427

LANE WIDTH

NUMBER OF CHANNELIZATION DEVICES (CONES)

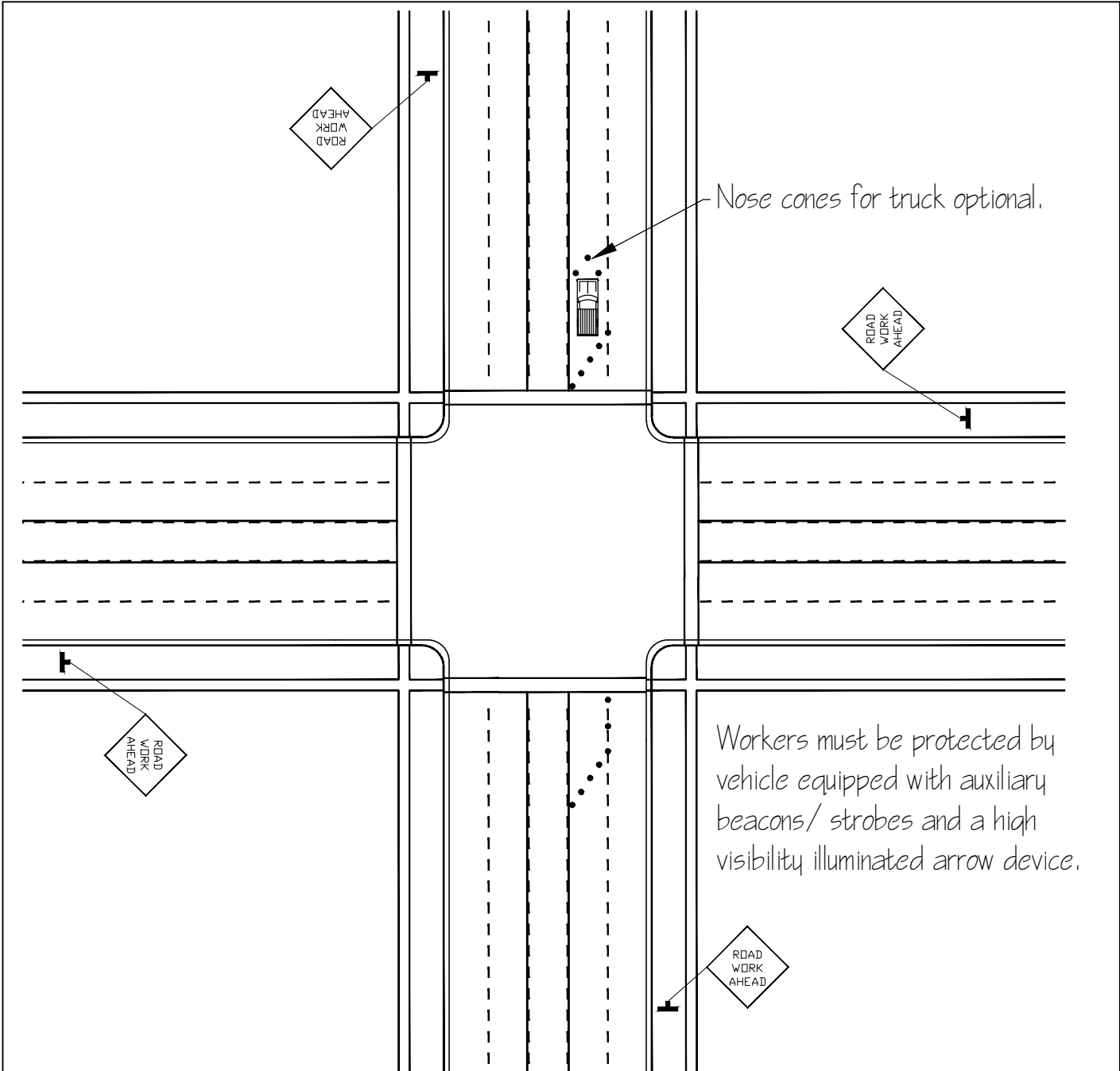
Offset cones 1 foot maximum.

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NOTE 2: NO WORK SHALL BE SCHEDULED ON STREETS OR WALKWAYS WITHIN THE CITY OF TACOMA BUSINESS DISTRICTS FROM THANKSGIVING DAY THROUGH NEW YEAR'S DAY.

NOTE 3: SIGN SPACING: URBAN LOW SPEED 25-30 MPH SIGNS MUST BE PLACED 100' APART. URBAN HIGH SPEED 35-40 MPH SIGNS MUST BE PLACED 350' APART.

SAMPLE SETUP



INSIDE LANE CLOSURE AT INTERSECTION UNDER 60 MINUTES

APPROVED BY: \_\_\_\_\_  
 APPROVED WITH CONDITIONS BY: \_\_\_\_\_ DATE: \_\_\_\_\_

START TRAFFIC CONTROL SET UP DATE: \_\_\_\_\_ OFF PEAK 9:00 AM WEEKDAYS  
 MUST BE OUT OF THE ROAD BY DATE: \_\_\_\_\_ OFF PEAK 3:30 PM WEEKDAYS

EVENING AND WEEKENDS ONLY

START TRAFFIC CONTROL SET UP DATE & TIME: \_\_\_\_\_  
 MUST BE OUT OF THE ROAD BY DATE & TIME: \_\_\_\_\_

MERGING TAPER LENGTHS FOR CONE PATTERN  
 (All minimums)

MPH	10	15	20	25	30	35	40
8'	14	30	54	84	120	164	214
10'	17	38	67	105	150	204	267
12'	20	45	80	125	180	245	320
14'	24	53	94	146	210	286	374
16'	27	60	107	167	240	327	427

LANE WIDTH

NUMBER OF CHANNELIZATION DEVICES (CONES)

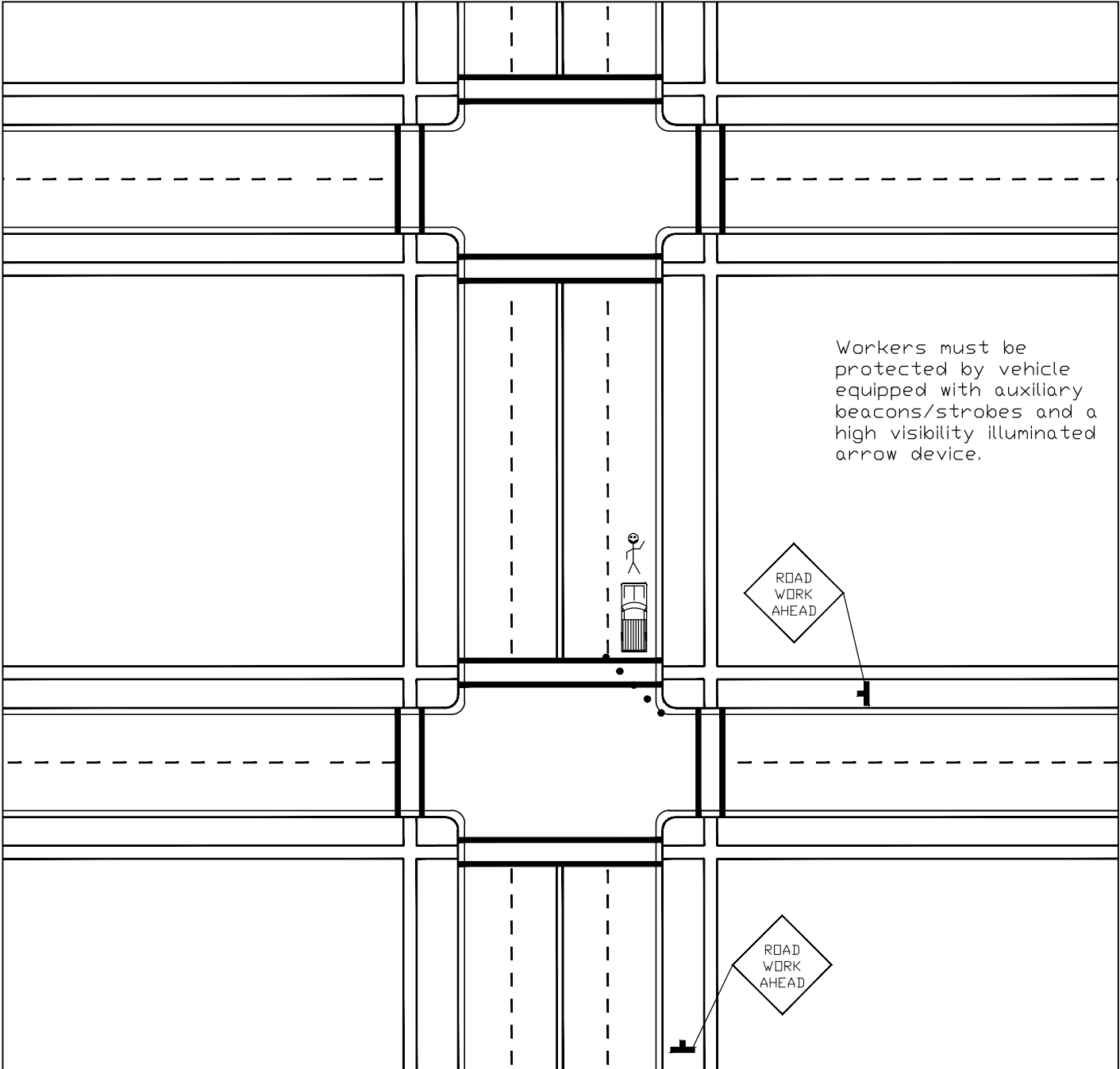
Offset cones 1 foot maximum.

NOTE 1: MAINTAIN LOCAL ACCESS AND PROTECTED WALKWAYS AT ALL TIMES. PROVIDE AND MAINTAIN BARRICADES, SIGNS, LIGHTS, ETC., AS PER "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AT ALL TIMES. STREETS AND WALKWAYS SHALL BE KEPT CLEAR OF DEBRIS DROPPED OR TRACKED BY VEHICLES ENTERING OR EXITING THE WORK SITE. FAILURE TO COMPLY WILL RESULT IN A STOP WORK ORDER AND/OR CITATION.

NOTE 2: NO WORK SHALL BE SCHEDULED ON STREETS OR WALKWAYS WITHIN THE CITY OF TACOMA BUSINESS DISTRICTS FROM THANKSGIVING DAY THROUGH NEW YEAR'S DAY.

NOTE 3: SIGN SPACING: URBAN LOW SPEED 25-30 MPH SIGNS MUST BE PLACED 100' APART. URBAN HIGH SPEED 35-40 MPH SIGNS MUST BE PLACED 350' APART.

SAMPLE SETUP



LANE CLOSURE AT INTERSECTION  
UNDER 60 MINUTES

APPROVED BY: \_\_\_\_\_  
 APPROVED WITH CONDITIONS BY: \_\_\_\_\_ DATE: \_\_\_\_\_

START TRAFFIC CONTROL SET UP DATE: \_\_\_\_\_ OFF PEAK 9:00 AM WEEKDAYS  
 MUST BE OUT OF THE ROAD BY DATE: \_\_\_\_\_ OFF PEAK 3:30 PM WEEKDAYS

EVENING AND WEEKENDS ONLY

START TRAFFIC CONTROL SET UP DATE & TIME: \_\_\_\_\_  
 MUST BE OUT OF THE ROAD BY DATE & TIME: \_\_\_\_\_

MERGING TAPER LENGTHS  
FOR CONE PATTERN

(All minimums)

MPH	10	15	20	25	30	35	40
8'	14	30	54	84	120	164	214
10'	17	38	67	105	150	204	267
12'	20	45	80	125	180	245	320
14'	24	53	94	146	210	286	374
16'	27	60	107	167	240	327	427

LANE WIDTH

NUMBER OF CHANNELIZATION DEVICES (CONES)

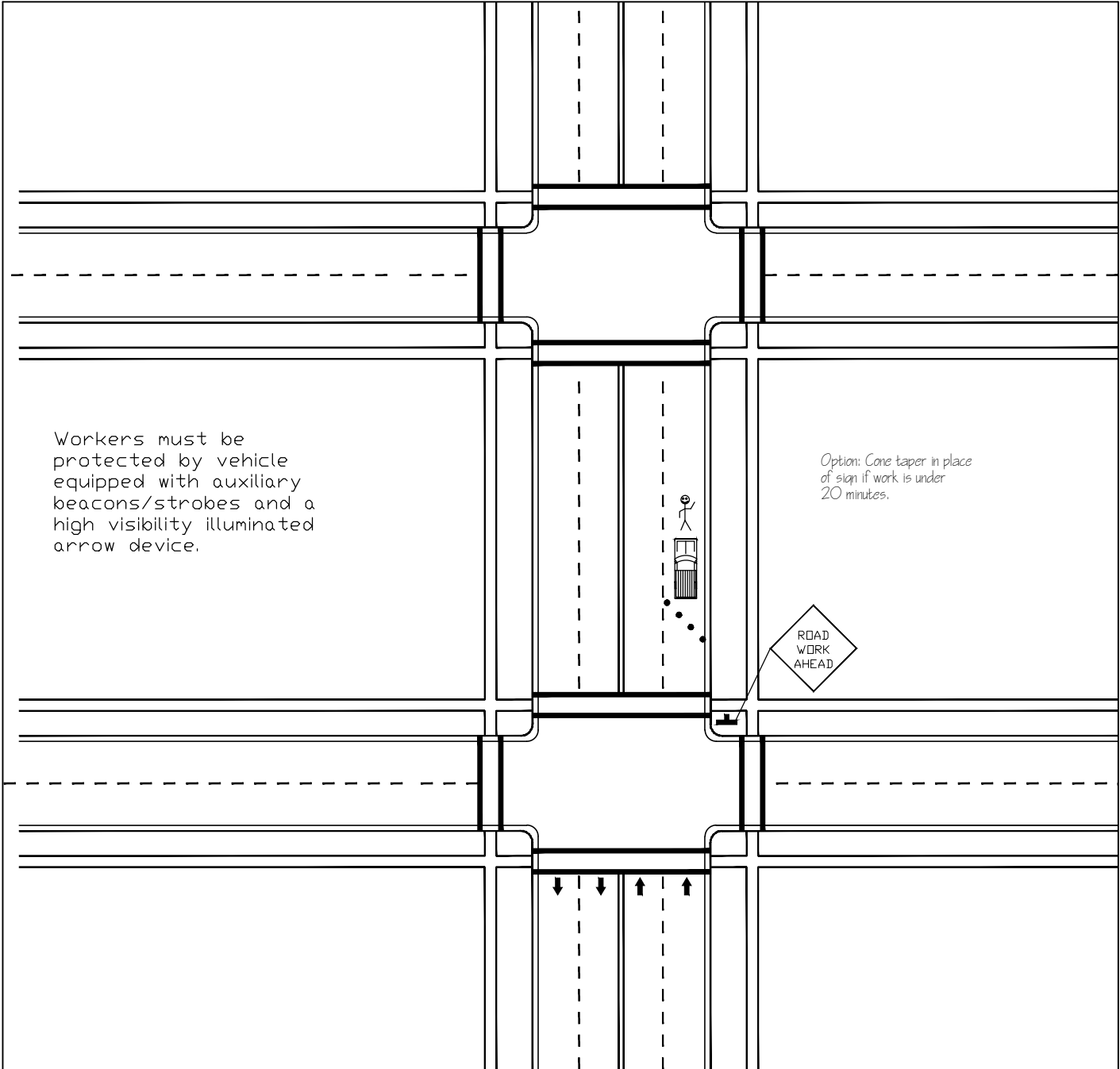
Offset cones 1 foot maximum.

NOTE 1: MAINTAIN LOCAL ACCESS AND PROTECTED WALKWAYS AT ALL TIMES. PROVIDE AND MAINTAIN BARRICADES, SIGNS, LIGHTS, ETC., AS PER "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AT ALL TIMES. STREETS AND WALKWAYS SHALL BE KEPT CLEAR OF DEBRIS DROPPED OR TRACKED BY VEHICLES ENTERING OR EXITING THE WORK SITE. FAILURE TO COMPLY WILL RESULT IN A STOP WORK ORDER AND/OR CITATION.

NOTE 2: NO WORK SHALL BE SCHEDULED ON STREETS OR WALKWAYS WITHIN THE CITY OF TACOMA BUSINESS DISTRICTS FROM THANKSGIVING DAY THROUGH NEW YEAR'S DAY.

NOTE 3: SIGN SPACING: URBAN LOW SPEED 25-30 MPH SIGNS MUST BE PLACED 100' APART. URBAN HIGH SPEED 35-40 MPH SIGNS MUST BE PLACED 350' APART.

SAMPLE SETUP



MID-BLOCK LANE CLOSURE  
UNDER 60 MINUTES

APPROVED BY: \_\_\_\_\_  
 APPROVED WITH CONDITIONS BY: \_\_\_\_\_ DATE: \_\_\_\_\_

START TRAFFIC CONTROL SET UP DATE: \_\_\_\_\_ OFF PEAK 9:00 AM WEEKDAYS  
 MUST BE OUT OF THE ROAD BY DATE: \_\_\_\_\_ OFF PEAK 3:30 PM WEEKDAYS

EVENING AND WEEKENDS ONLY

START TRAFFIC CONTROL SET UP DATE & TIME: \_\_\_\_\_  
 MUST BE OUT OF THE ROAD BY DATE & TIME: \_\_\_\_\_

MERGING TAPER LENGTHS  
FOR CONE PATTERN

(All minimums)

MPH	10	15	20	25	30	35	40
8'	14	30	54	84	120	164	214
10'	17	38	67	105	150	204	267
12'	20	45	80	125	180	245	320
14'	24	53	94	146	210	286	374
16'	27	60	107	167	240	327	427

LANE WIDTH

NUMBER OF CHANNELIZATION DEVICES (CONES)

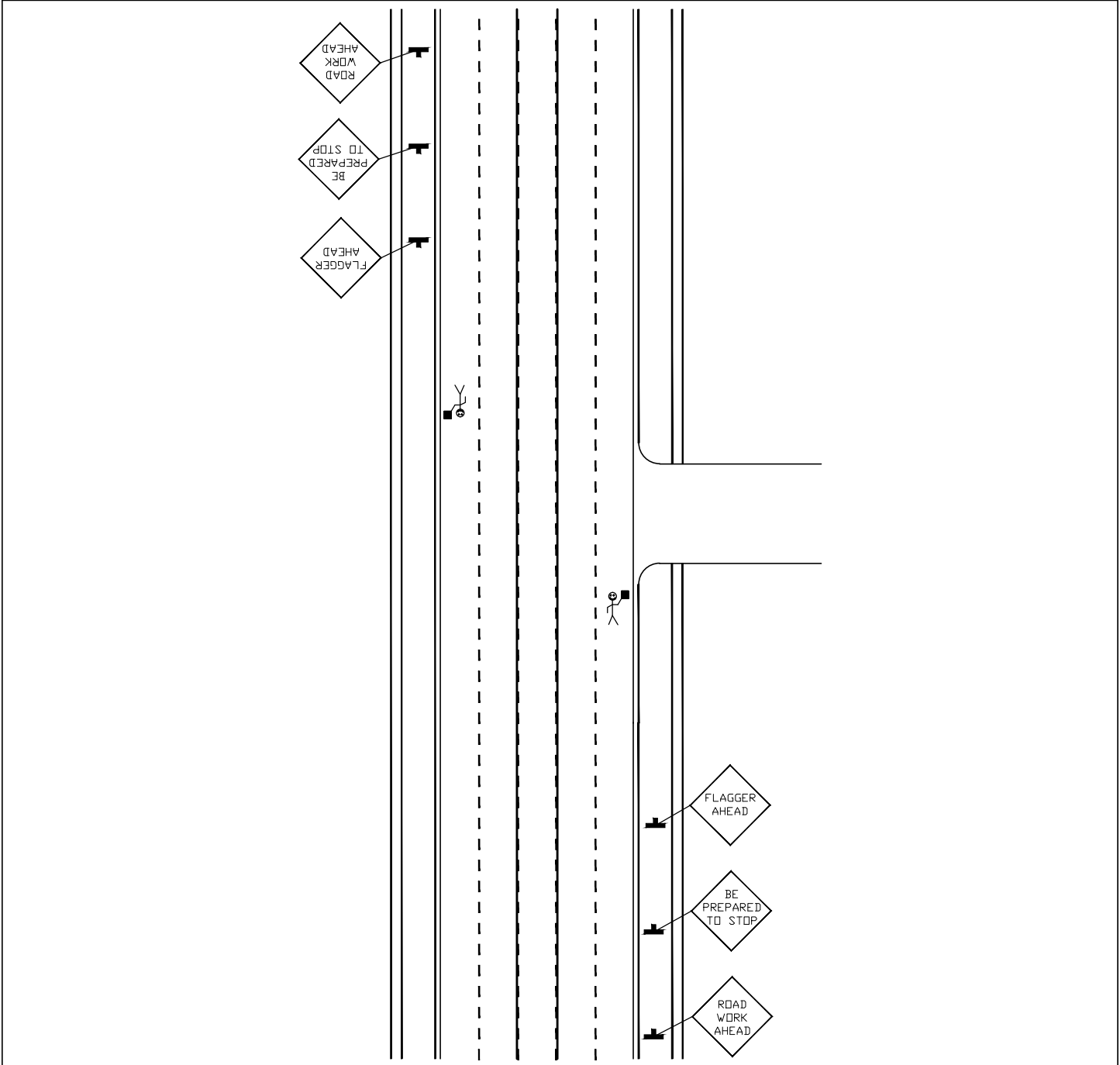
Offset cones 1 foot maximum.

NOTE 1: MAINTAIN LOCAL ACCESS AND PROTECTED WALKWAYS AT ALL TIMES. PROVIDE AND MAINTAIN BARRICADES, SIGNS, LIGHTS, ETC, AS PER "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AT ALL TIMES. STREETS AND WALKWAYS SHALL BE KEPT CLEAR OF DEBRIS DROPPED OR TRACKED BY VEHICLES ENTERING OR EXITING THE WORK SITE. FAILURE TO COMPLY WILL RESULT IN A STOP WORK ORDER AND/OR CITATION.

NOTE 2: NO WORK SHALL BE SCHEDULED ON STREETS OR WALKWAYS WITHIN THE CITY OF TACOMA BUSINESS DISTRICTS FROM THANKSGIVING DAY THROUGH NEW YEAR'S DAY.

NOTE 3: SIGN SPACING: URBAN LOW SPEED 25-30 MPH SIGNS MUST BE PLACED 100' APART. URBAN HIGH SPEED 35-40 MPH SIGNS MUST BE PLACED 350' APART.

SAMPLE SETUP



TRAFFIC CONTROL  
RECOMMENDATIONS  
FOR TRUCK CROSSING

APPROVED BY: \_\_\_\_\_  
 APPROVED WITH CONDITIONS BY: \_\_\_\_\_ DATE: \_\_\_\_\_

START TRAFFIC CONTROL SET UP DATE: \_\_\_\_\_ OFF PEAK 9:00 AM WEEKDAYS

MUST BE OUT OF THE ROAD BY DATE: \_\_\_\_\_ OFF PEAK 3:30 PM WEEKDAYS

EVENING AND WEEKENDS ONLY

START TRAFFIC CONTROL SET UP DATE & TIME: \_\_\_\_\_

MUST BE OUT OF THE ROAD BY DATE & TIME: \_\_\_\_\_

MERGING TAPER LENGTHS  
FOR CONE PATTERN  
(All minimums)

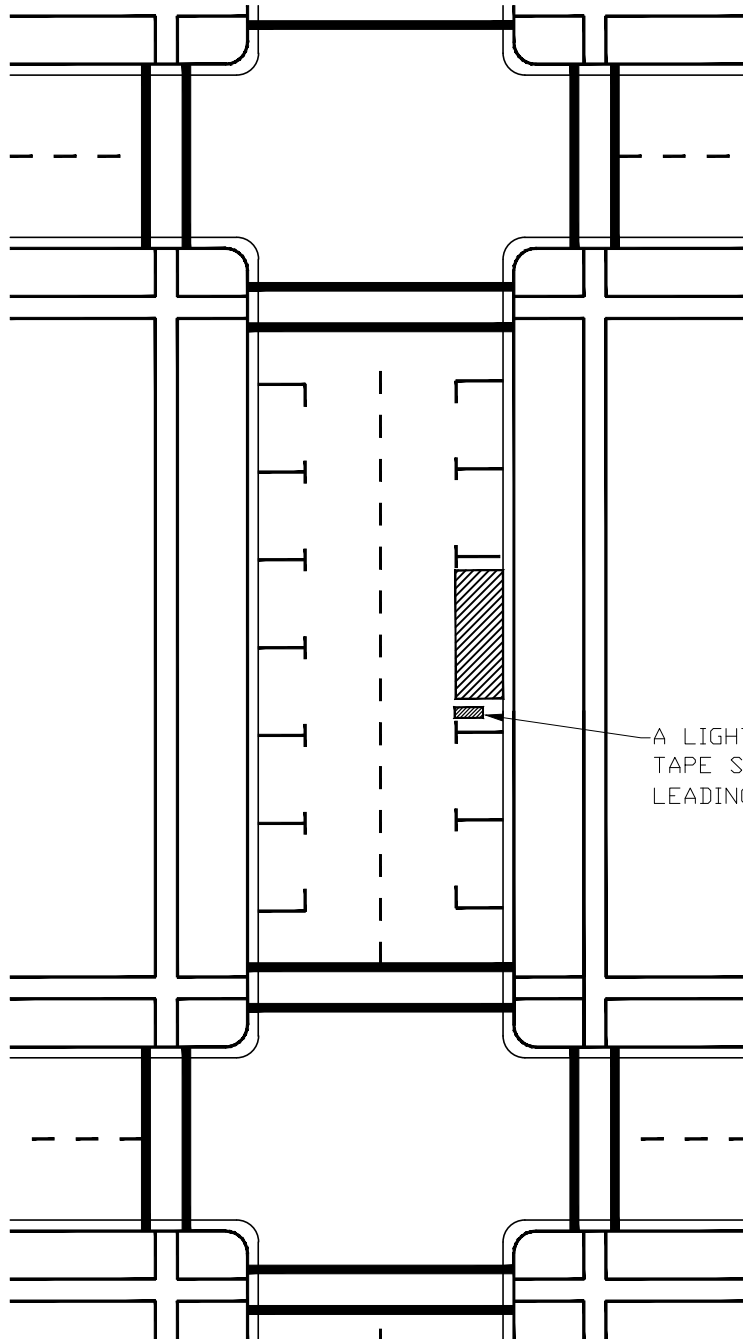
MPH	10	15	20	25	30	35	40
8'	14	30	54	84	120	164	214
10'	17	38	67	105	150	204	267
12'	20	45	80	125	180	245	320
14'	24	53	94	146	210	286	374
16'	27	60	107	167	240	327	427
LANE WIDTH	NUMBER OF CHANNELIZATION DEVICES (CONES)						
	Offset cones 1 foot maximum.						

NOTE 1: MAINTAIN LOCAL ACCESS AND PROTECTED WALKWAYS AT ALL TIMES. PROVIDE AND MAINTAIN BARRICADES, SIGNS, LIGHTS, ETC, AS PER "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AT ALL TIMES. STREETS AND WALKWAYS SHALL BE KEPT CLEAR OF DEBRIS DROPPED OR TRACKED BY VEHICLES ENTERING OR EXITING THE WORK SITE. FAILURE TO COMPLY WILL RESULT IN A STOP WORK ORDER AND/OR CITATION.

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NOTE 3: SIGN SPACING: URBAN LOW SPEED 25-30 MPH SIGNS MUST BE PLACED 100' APART. URBAN HIGH SPEED 35-40 MPH SIGNS MUST BE PLACED 350' APART.

SAMPLE SETUP



A LIGHTED BARRICADE OR REFLECTIVE TAPE SHALL BE INSTALLED ON THE LEADING EDGE OF THE DUMPSTER.

TRAFFIC CONTROL  
FOR A PORTABLE  
DUMPSTER

APPROVED BY: \_\_\_\_\_  
 APPROVED WITH CONDITIONS BY: \_\_\_\_\_ DATE: \_\_\_\_\_

START TRAFFIC CONTROL SET UP DATE: \_\_\_\_\_ OFF PEAK 9:00 AM WEEKDAYS

MUST BE OUT OF THE ROAD BY DATE: \_\_\_\_\_ OFF PEAK 3:30 PM WEEKDAYS

EVENING AND WEEKENDS ONLY

START TRAFFIC CONTROL SET UP DATE & TIME: \_\_\_\_\_

MUST BE OUT OF THE ROAD BY DATE & TIME: \_\_\_\_\_

MERGING TAPER LENGTHS  
FOR CONE PATTERN  
(All minimums)

MPH	10	15	20	25	30	35	40
8'	14	30	54	84	120	164	214
10'	17	38	67	105	150	204	267
12'	20	45	80	125	180	245	320
14'	24	53	94	146	210	286	374
16'	27	60	107	167	240	327	427

LANE WIDTH

NUMBER OF CHANNELIZATION DEVICES (CONES)

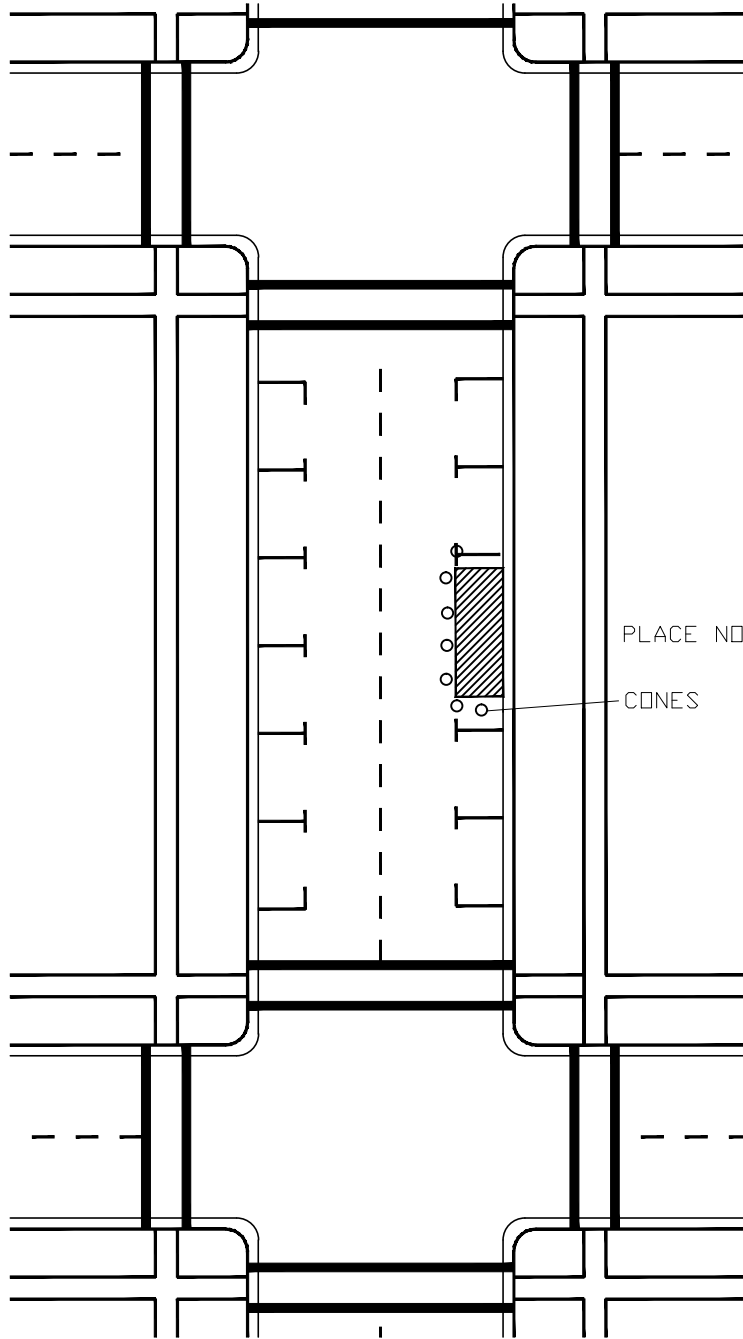
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SAMPLE SETUP



PLACE NO-PARK SIGNS 24HRS IN ADVANCE

CONES

TRAFFIC CONTROL  
FOR MOVING VAN

APPROVED BY: \_\_\_\_\_  
 APPROVED WITH CONDITIONS BY: \_\_\_\_\_ DATE: \_\_\_\_\_

START TRAFFIC CONTROL SET UP DATE: \_\_\_\_\_ OFF PEAK 9:00 AM WEEKDAYS

MUST BE OUT OF THE ROAD BY DATE: \_\_\_\_\_ OFF PEAK 3:30 PM WEEKDAYS

EVENING AND WEEKENDS ONLY

START TRAFFIC CONTROL SET UP DATE & TIME: \_\_\_\_\_

MUST BE OUT OF THE ROAD BY DATE & TIME: \_\_\_\_\_

MERGING TAPER LENGTHS  
FOR CONE PATTERN

(All minimums)

MPH	10	15	20	25	30	35	40
8'	14	30	54	84	120	164	214
10'	17	38	67	105	150	204	267
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14'	24	53	94	146	210	286	374
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LANE WIDTH

NUMBER OF CHANNELIZATION DEVICES (CONES)

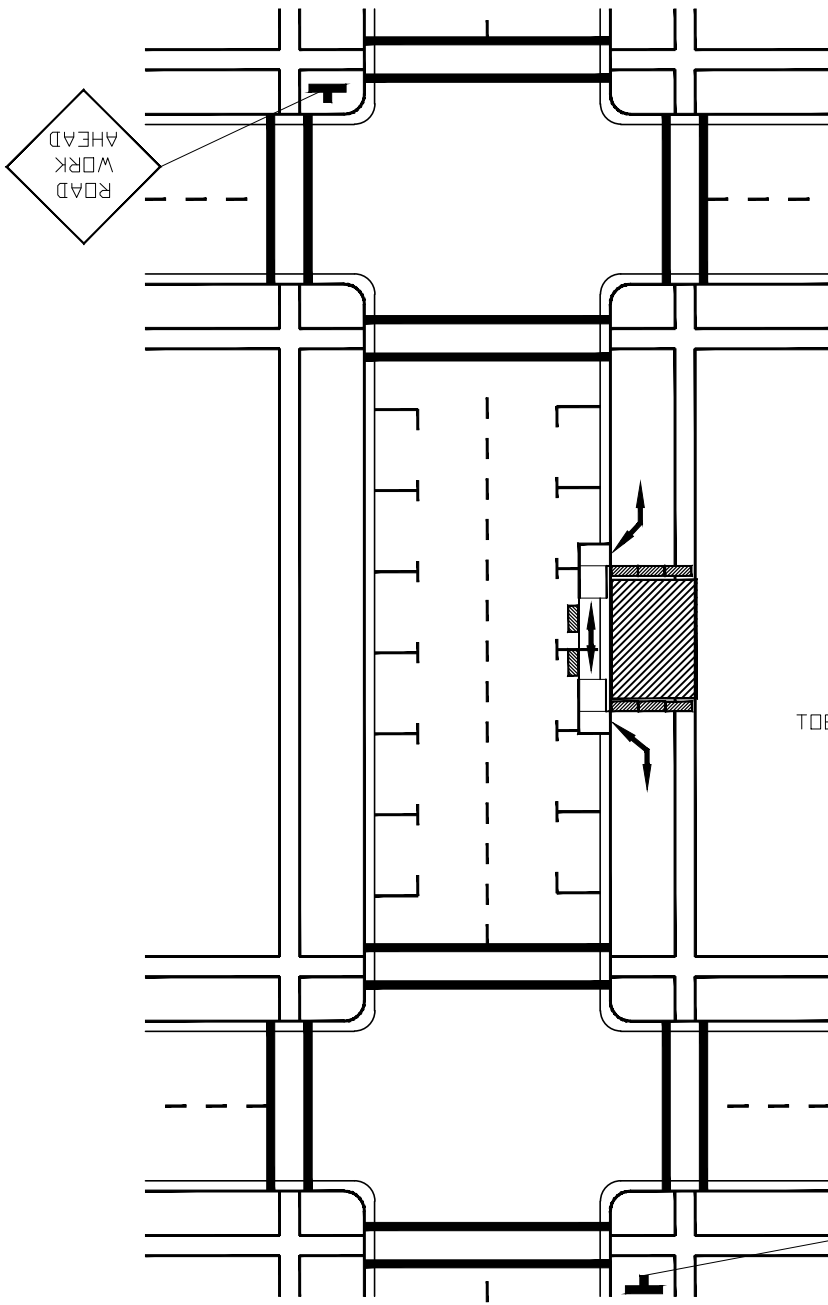
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SAMPLE SETUP

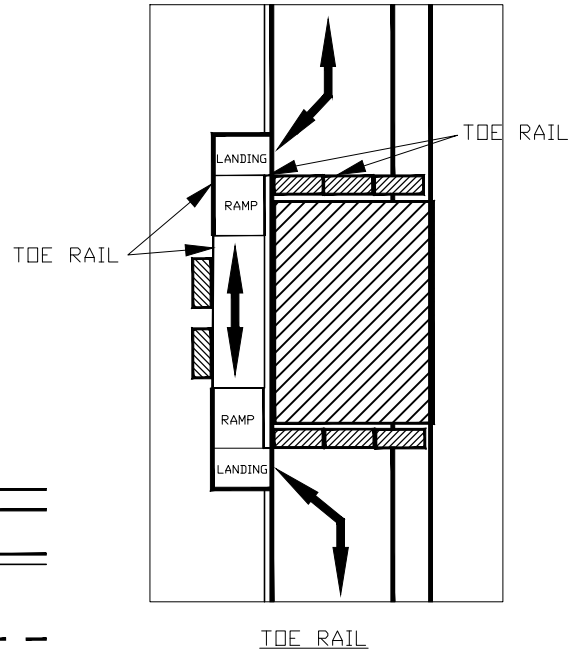


NOTE:

PEDESTRIAN WALKWAYS SHALL BE A MINIMUM OF 5 FEET WIDE.

TOE RAIL ON RAMP ENTRANCE AND BARRICADE TOE RAIL SHALL HAVE NO GAPS AND BE PARALLEL.

SEE BYPASS RAMP DETAIL FOR PROPER CONSTRUCTION OF RAMP TO ALLOW FOR PEDESTRIAN AND DISABILITY ACCESS.



BYPASS  
WALKWAY FOR  
PEDESTRIANS

APPROVED BY: \_\_\_\_\_  
 APPROVED WITH CONDITIONS BY: \_\_\_\_\_ DATE: \_\_\_\_\_

START TRAFFIC CONTROL SET UP DATE: \_\_\_\_\_ OFF PEAK 9:00 AM WEEKDAYS  
 MUST BE OUT OF THE ROAD BY DATE: \_\_\_\_\_ OFF PEAK 3:30 PM WEEKDAYS

EVENING AND WEEKENDS ONLY

START TRAFFIC CONTROL SET UP DATE & TIME: \_\_\_\_\_  
 MUST BE OUT OF THE ROAD BY DATE & TIME: \_\_\_\_\_

MERGING TAPER LENGTHS  
FOR CONE PATTERN

(All minimums)

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NUMBER OF CHANNELIZATION DEVICES (CONES)

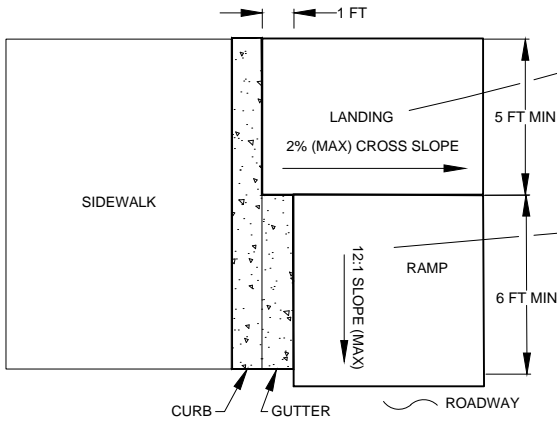
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SAMPLE SETUP



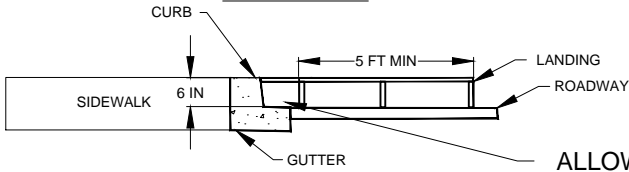
RAMP LANDING SHALL BE 1" X 5' X 5' (MIN) AND FLUSH WITH THE TOP OF THE CURB

RAMP SHALL BE 1" X 5' X 6' (MIN) AND HAVE A 600 POUND LOAD CAPACITY MIN.

NOTES:

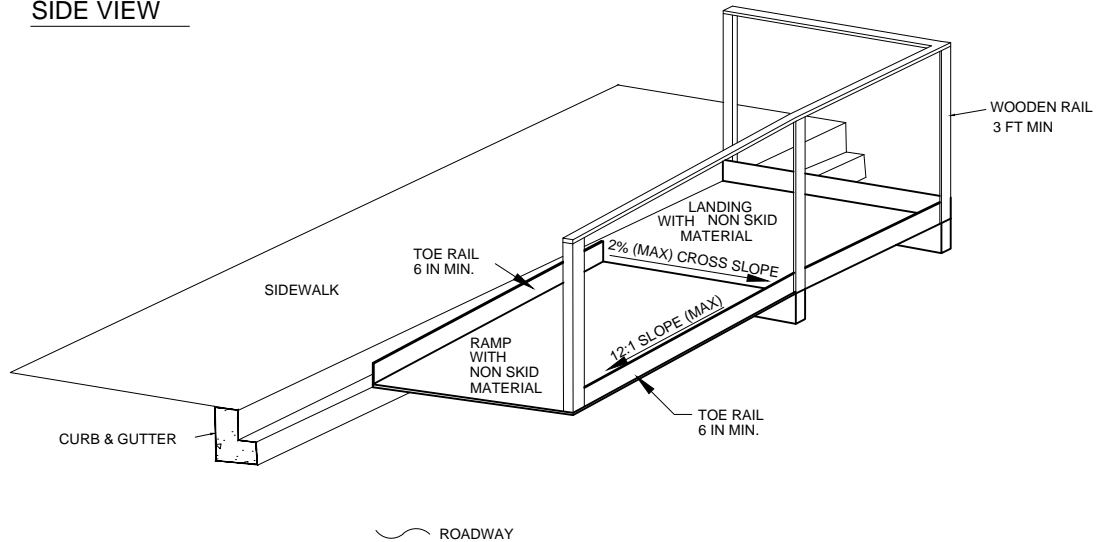
1. CONTACT AND COORDINATE IMPACTED TRANSIT AGENCIES PRIOR TO IMPLEMENTING ANY CLOSURES.
2. ADA ACCOMODATIONS MUST BE ADDRESSED AND CONSIDERED FOR ALL WORK OPERATIONS. EXISTING ADA FACILITIES MUST BE MAINTAINED.

TOP VIEW



ALLOW FOR STORM DRAINAGE IN GUTTER LINE

SIDE VIEW



PEDESTRIAN BYPASS RAMPS  
FOR TEMPORARY TRAFFIC CONTROL  
MINIMUM STANDARDS

APPROVED BY: \_\_\_\_\_  
 APPROVED WITH CONDITIONS BY: \_\_\_\_\_ DATE: \_\_\_\_\_

START TRAFFIC CONTROL SET UP DATE: \_\_\_\_\_ OFF PEAK 9:00 AM WEEKDAYS  
 MUST BE OUT OF THE ROAD BY DATE: \_\_\_\_\_ OFF PEAK 3:30 PM WEEKDAYS

EVENING AND WEEKENDS ONLY

START TRAFFIC CONTROL SET UP DATE & TIME: \_\_\_\_\_  
 MUST BE OUT OF THE ROAD BY DATE & TIME: \_\_\_\_\_

MERGING TAPER LENGTHS  
FOR CONE PATTERN

(All minimums)

MPH	10	15	20	25	30	35	40
8'	14	30	54	84	120	164	214
10'	17	38	67	105	150	204	267
12'	20	45	80	125	180	245	320
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LANE WIDTH

NUMBER OF CHANNELIZATION DEVICES (CONES)

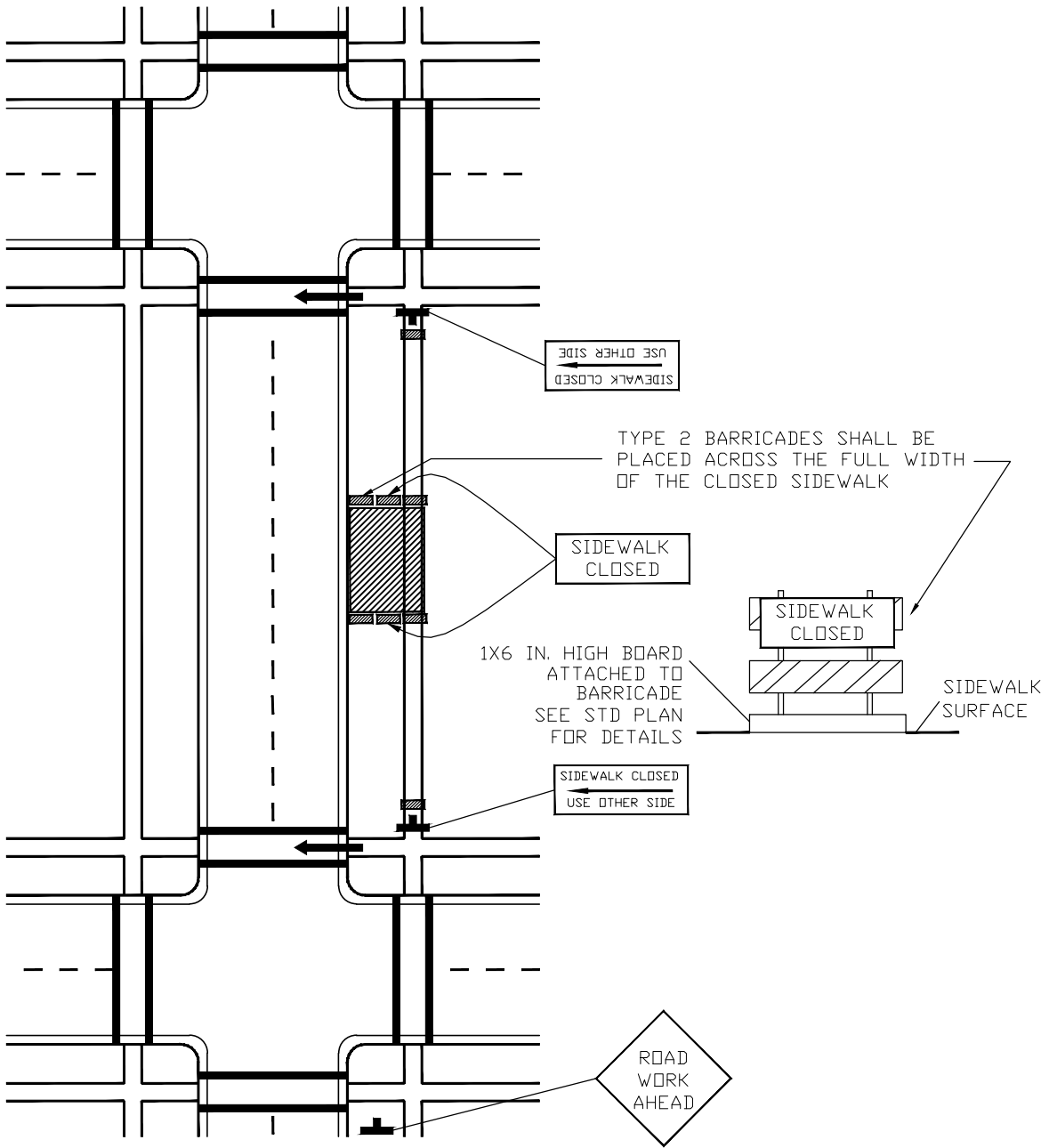
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SAMPLE SETUP



SIDEWALK  
CLOSURE

APPROVED BY: \_\_\_\_\_  
 APPROVED WITH CONDITIONS BY: \_\_\_\_\_ DATE: \_\_\_\_\_

START TRAFFIC CONTROL SET UP DATE: \_\_\_\_\_ OFF PEAK 9:00 AM WEEKDAYS

MUST BE OUT OF THE ROAD BY DATE: \_\_\_\_\_ OFF PEAK 3:30 PM WEEKDAYS

EVENING AND WEEKENDS ONLY

START TRAFFIC CONTROL SET UP DATE & TIME: \_\_\_\_\_

MUST BE OUT OF THE ROAD BY DATE & TIME: \_\_\_\_\_

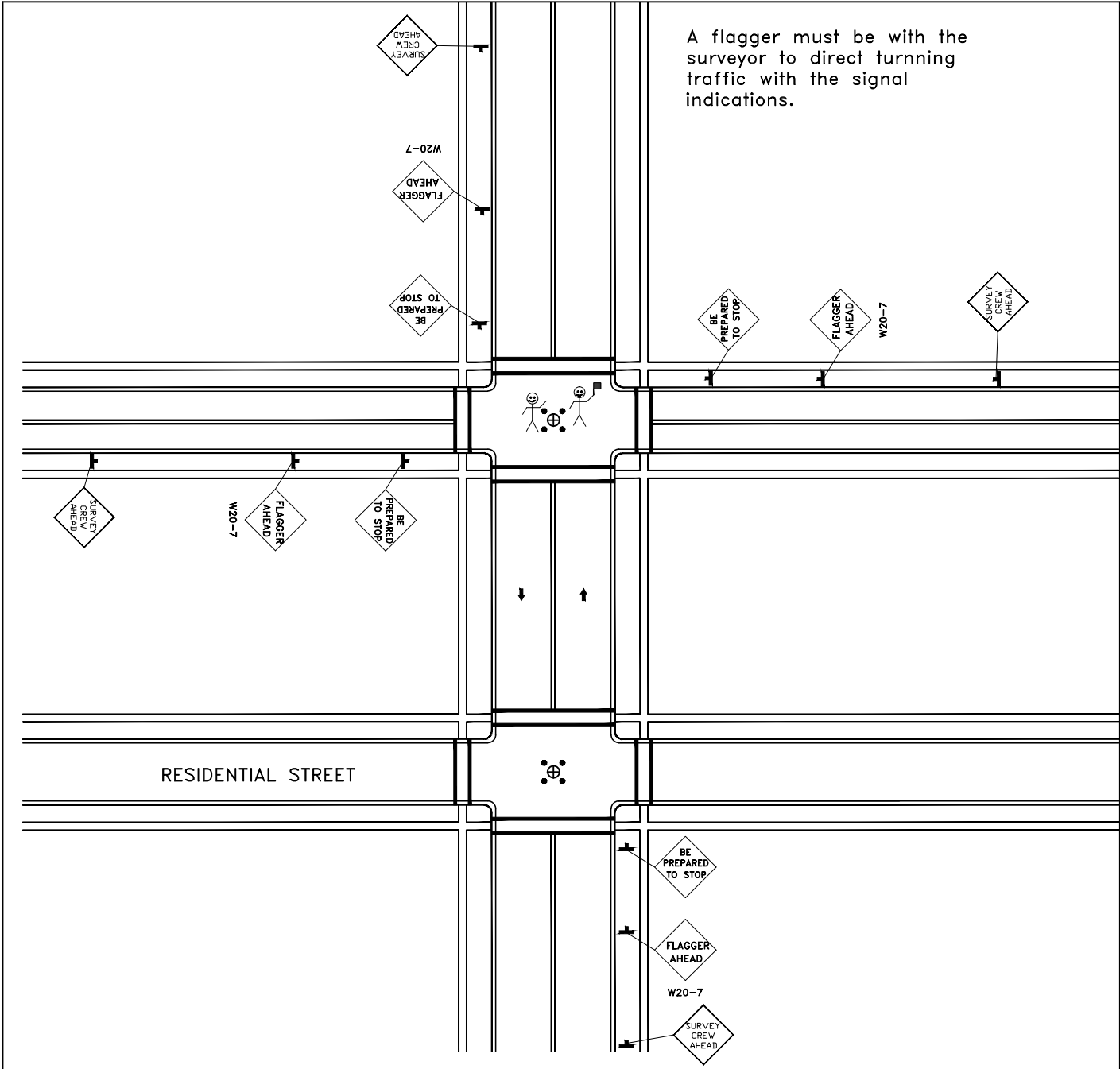
MERGING TAPER LENGTHS  
FOR CONE PATTERN  
(All minimums)

MPH	10	15	20	25	30	35	40
8'	14	30	54	84	120	164	214
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NUMBER OF CHANNELIZATION DEVICES (CONES)  
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SAMPLE SETUP



A flagger must be with the surveyor to direct turning traffic with the signal indications.

RESIDENTIAL STREET

SURVEY  
TWO LANE ARTERIAL  
INTERSECTION

APPROVED BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
 APPROVED WITH CONDITIONS BY: \_\_\_\_\_ DATE: \_\_\_\_\_

START TRAFFIC CONTROL SET UP DATE: \_\_\_\_\_ OFF PEAK 9:00 AM WEEKDAYS

MUST BE OUT OF THE ROAD BY DATE: \_\_\_\_\_ OFF PEAK 3:30 PM WEEKDAYS

EVENING AND WEEKENDS ONLY

START TRAFFIC CONTROL SET UP DATE & TIME: \_\_\_\_\_

MUST BE OUT OF THE ROAD BY DATE & TIME: \_\_\_\_\_

MERGING TAPER LENGTHS  
FOR CONE PATTERN

(All minimums)

MPH	10	15	20	25	30	35	40
8'	14	30	54	84	120	164	214
10'	17	38	67	105	150	204	267
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14'	24	53	94	146	210	286	374
16'	27	60	107	167	240	327	427

LANE WIDTH

NUMBER OF CHANNELIZATION DEVICES (CONES)

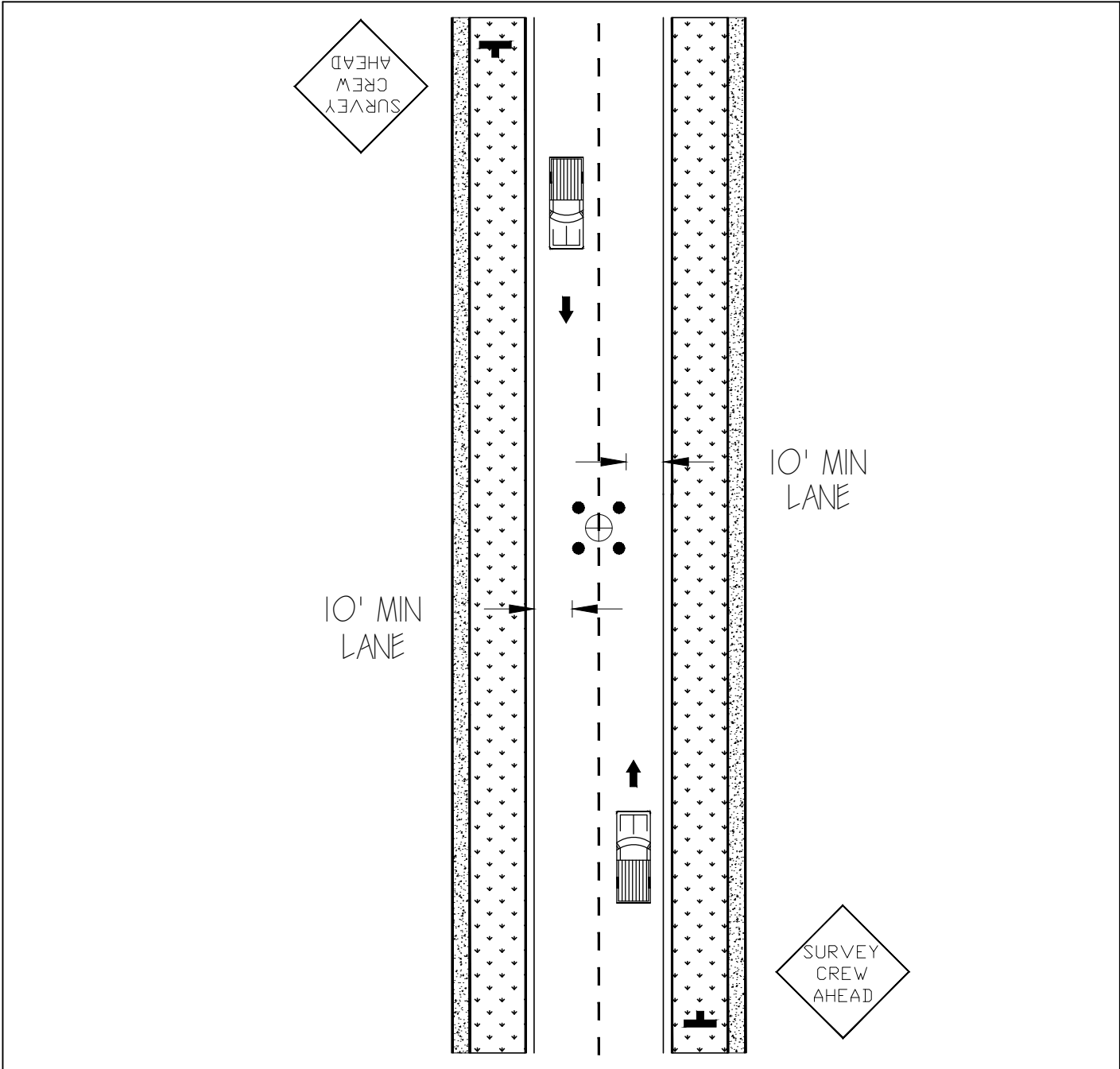
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SAMPLE SETUP



SURVEY  
TWO LANE ARTERIAL  
MID-BLOCK

APPROVED BY: \_\_\_\_\_  
 APPROVED WITH CONDITIONS BY: \_\_\_\_\_ DATE: \_\_\_\_\_

START TRAFFIC CONTROL SET UP DATE: \_\_\_\_\_ OFF PEAK 9:00 AM WEEKDAYS  
 MUST BE OUT OF THE ROAD BY DATE: \_\_\_\_\_ OFF PEAK 3:30 PM WEEKDAYS

EVENING AND WEEKENDS ONLY

START TRAFFIC CONTROL SET UP DATE & TIME: \_\_\_\_\_  
 MUST BE OUT OF THE ROAD BY DATE & TIME: \_\_\_\_\_

MERGING TAPER LENGTHS  
FOR CONE PATTERN  
(All minimums)

MPH	10	15	20	25	30	35	40
8'	14	30	54	84	120	164	214
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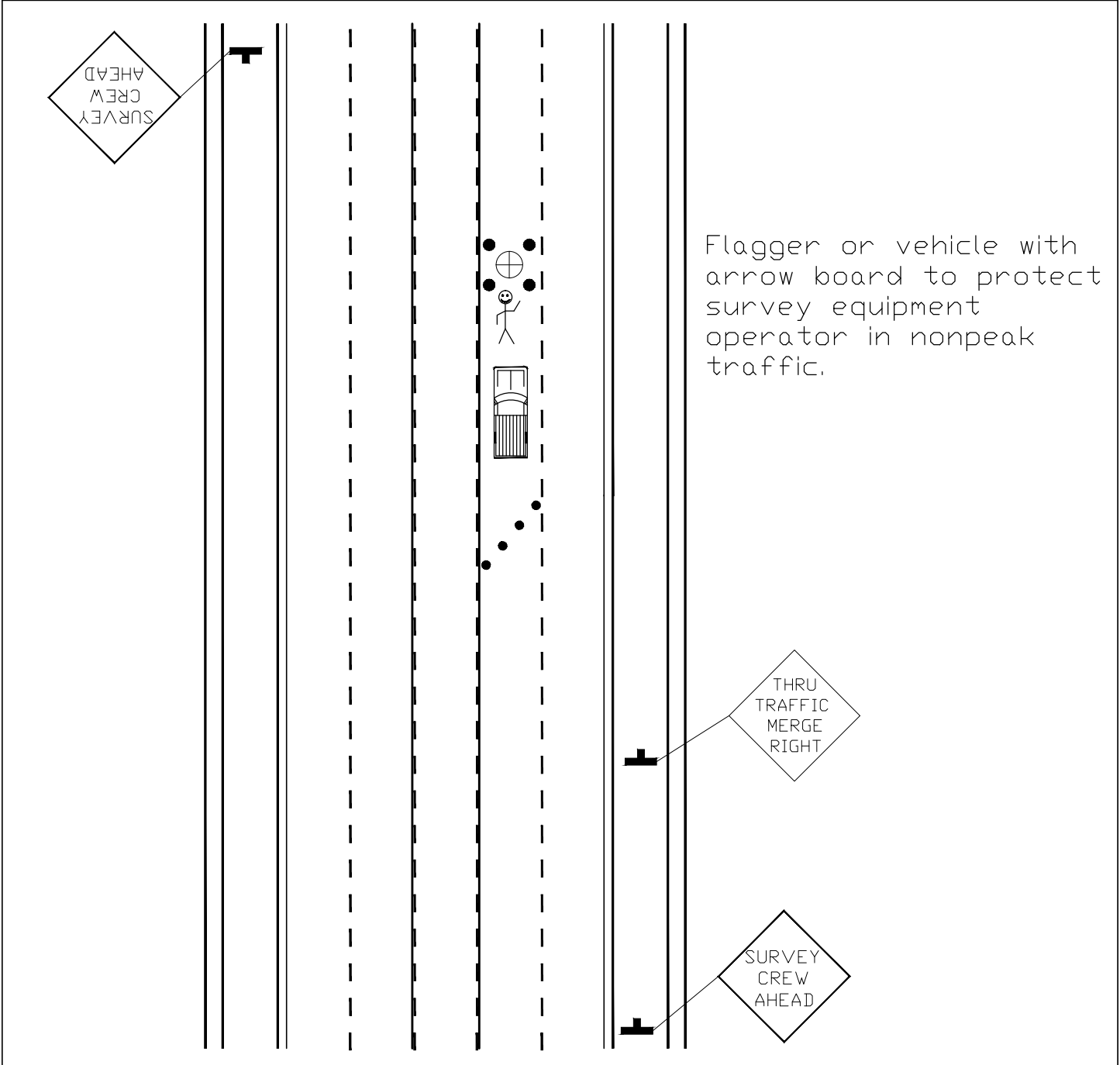
NUMBER OF CHANNELIZATION DEVICES (CONES)  
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SAMPLE SETUP



Flagger or vehicle with arrow board to protect survey equipment operator in nonpeak traffic.

SURVEY  
MULTI-LANE  
ARTERIAL

MERGING TAPER LENGTHS  
FOR CONE PATTERN  
(All minimums)

APPROVED BY: \_\_\_\_\_

APPROVED WITH CONDITIONS BY: \_\_\_\_\_ DATE: \_\_\_\_\_

START TRAFFIC CONTROL SET UP DATE: \_\_\_\_\_ OFF PEAK 9:00 AM WEEKDAYS

MUST BE OUT OF THE ROAD BY DATE: \_\_\_\_\_ OFF PEAK 3:30 PM WEEKDAYS

EVENING AND WEEKENDS ONLY

START TRAFFIC CONTROL SET UP DATE & TIME: \_\_\_\_\_

MUST BE OUT OF THE ROAD BY DATE & TIME: \_\_\_\_\_

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LANE WIDTH

NUMBER OF CHANNELIZATION DEVICES (CONES)

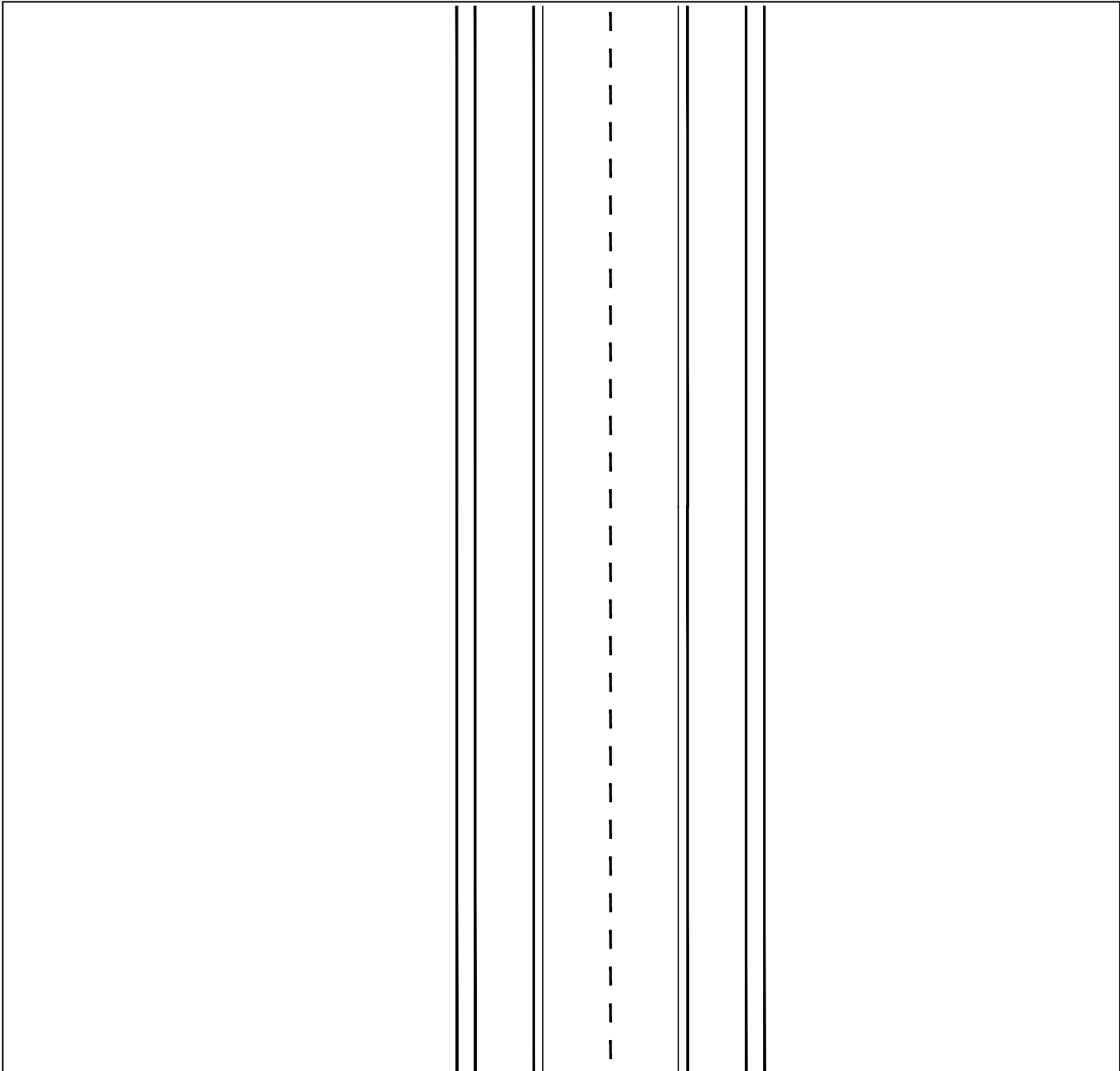
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SAMPLE SETUP



TRAFFIC CONTROL  
RECOMMENDATIONS

APPROVED BY: \_\_\_\_\_  
 APPROVED WITH CONDITIONS BY: \_\_\_\_\_ DATE: \_\_\_\_\_

START TRAFFIC CONTROL SET UP DATE: \_\_\_\_\_ OFF PEAK 9:00 AM WEEKDAYS  
 MUST BE OUT OF THE ROAD BY DATE: \_\_\_\_\_ OFF PEAK 3:30 PM WEEKDAYS

EVENING AND WEEKENDS ONLY

START TRAFFIC CONTROL SET UP DATE & TIME: \_\_\_\_\_  
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MERGING TAPER LENGTHS  
FOR CONE PATTERN  
(All minimums)

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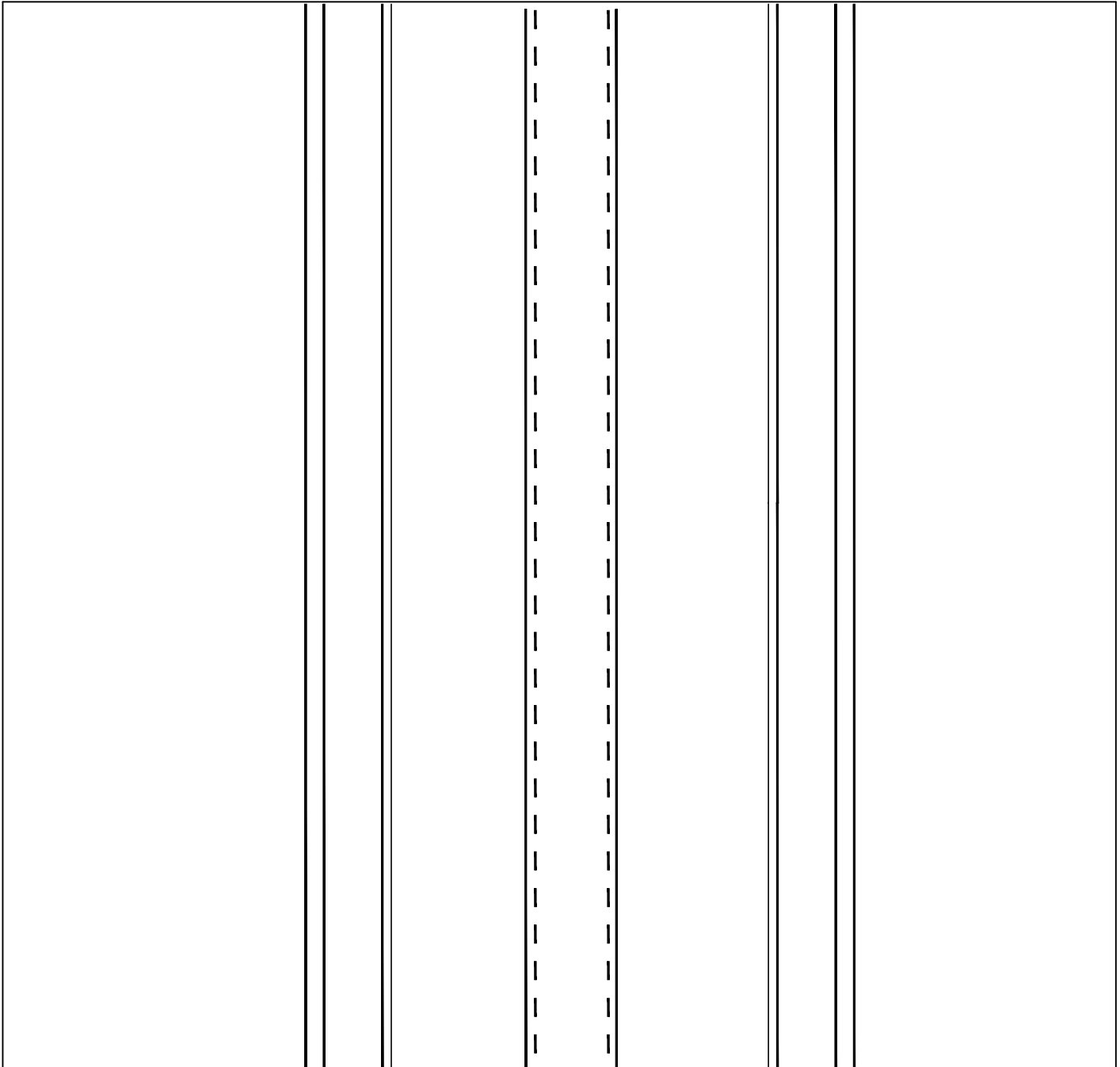
LANE WIDTH

NUMBER OF CHANNELIZATION DEVICES (CONES)

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SAMPLE SETUP



TRAFFIC CONTROL  
RECOMMENDATIONS

APPROVED BY: \_\_\_\_\_  
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START TRAFFIC CONTROL SET UP DATE: \_\_\_\_\_ OFF PEAK 9:00 AM WEEKDAYS  
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EVENING AND WEEKENDS ONLY

START TRAFFIC CONTROL SET UP DATE & TIME: \_\_\_\_\_  
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MERGING TAPER LENGTHS  
FOR CONE PATTERN

(All minimums)

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NUMBER OF CHANNELIZATION DEVICES (CONES)

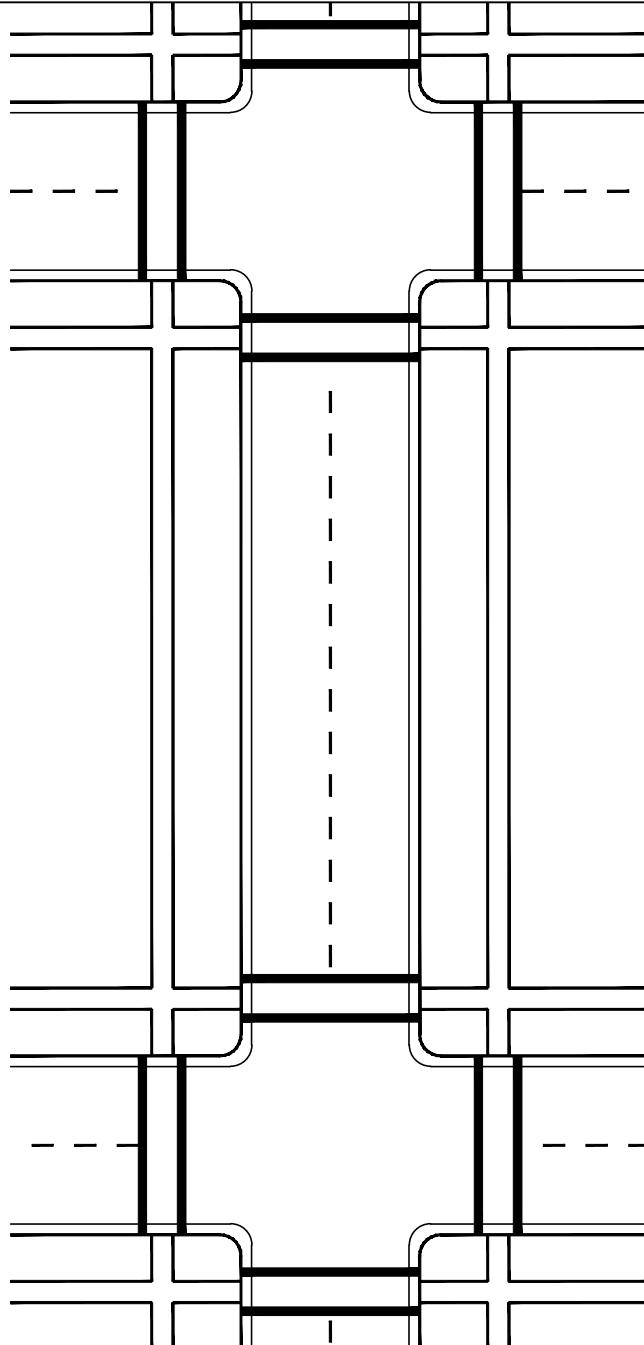
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SAMPLE SETUP



TRAFFIC CONTROL  
RECOMMENDATIONS

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EVENING AND WEEKENDS ONLY

START TRAFFIC CONTROL SET UP DATE & TIME: \_\_\_\_\_

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MERGING TAPER LENGTHS  
FOR CONE PATTERN

(All minimums)

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NUMBER OF CHANNELIZATION DEVICES (CONES)

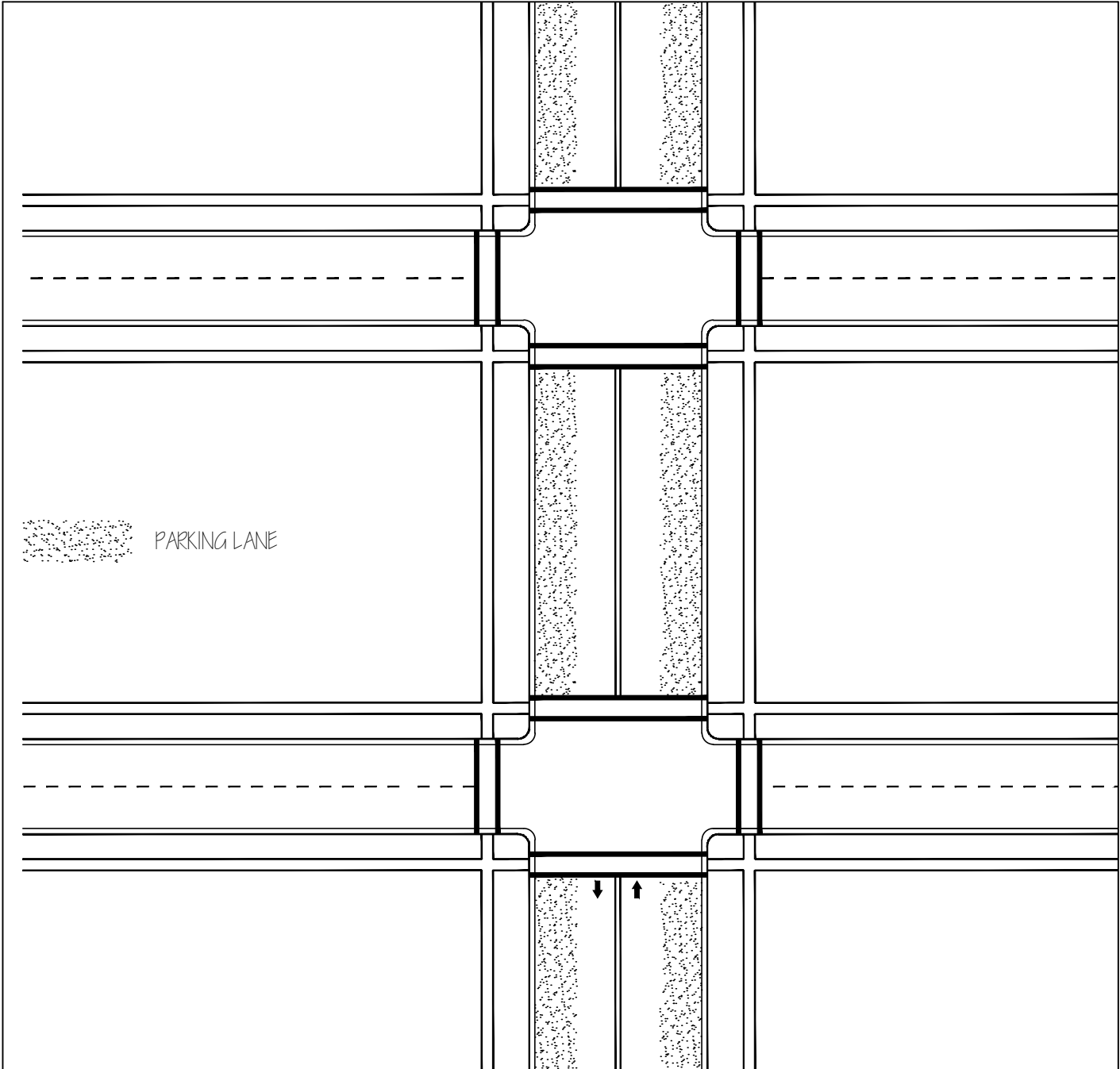
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NOTE 2: NO WORK SHALL BE SCHEDULED ON STREETS OR WALKWAYS WITHIN THE CITY OF TACOMA BUSINESS DISTRICTS FROM THANKSGIVING DAY THROUGH NEW YEAR'S DAY.

NOTE 3: SIGN SPACING: URBAN LOW SPEED 25-30 MPH SIGNS MUST BE PLACED 100' APART. URBAN HIGH SPEED 35-40 MPH SIGNS MUST BE PLACED 350' APART.

SAMPLE SETUP



TRAFFIC CONTROL  
RECOMMENDATIONS

APPROVED BY: \_\_\_\_\_  
 APPROVED WITH CONDITIONS BY: \_\_\_\_\_ DATE: \_\_\_\_\_

START TRAFFIC CONTROL SET UP DATE: \_\_\_\_\_ OFF PEAK 9:00 AM WEEKDAYS  
 MUST BE OUT OF THE ROAD BY DATE: \_\_\_\_\_ OFF PEAK 3:30 PM WEEKDAYS

EVENING AND WEEKENDS ONLY

START TRAFFIC CONTROL SET UP DATE & TIME: \_\_\_\_\_  
 MUST BE OUT OF THE ROAD BY DATE & TIME: \_\_\_\_\_

MERGING TAPER LENGTHS  
FOR CONE PATTERN

(All minimums)

MPH	10	15	20	25	30	35	40
8'	14	30	54	84	120	164	214
10'	17	38	67	105	150	204	267
12'	20	45	80	125	180	245	320
14'	24	53	94	146	210	286	374
16'	27	60	107	167	240	327	427

LANE WIDTH

NUMBER OF CHANNELIZATION DEVICES (CONES)

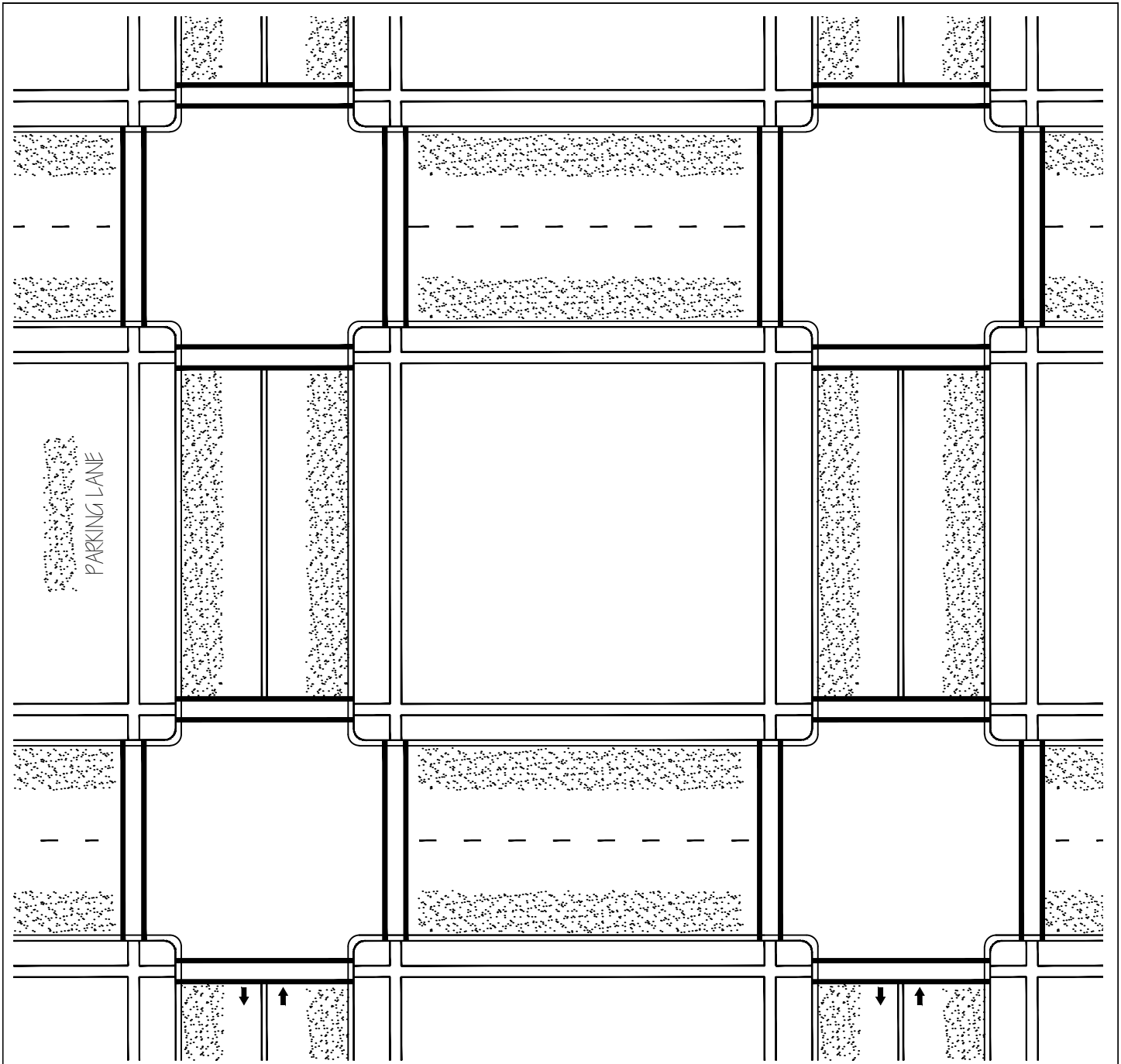
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SAMPLE SETUP



TRAFFIC CONTROL RECOMMENDATIONS

APPROVED BY: \_\_\_\_\_

APPROVED WITH CONDITIONS BY: \_\_\_\_\_ DATE: \_\_\_\_\_

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EVENING AND WEEKENDS ONLY

START TRAFFIC CONTROL SET UP DATE & TIME: \_\_\_\_\_

MUST BE OUT OF THE ROAD BY DATE & TIME: \_\_\_\_\_

MERGING TAPER LENGTHS FOR CONE PATTERN (All minimums)

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8'	14	30	54	84	120	164	214
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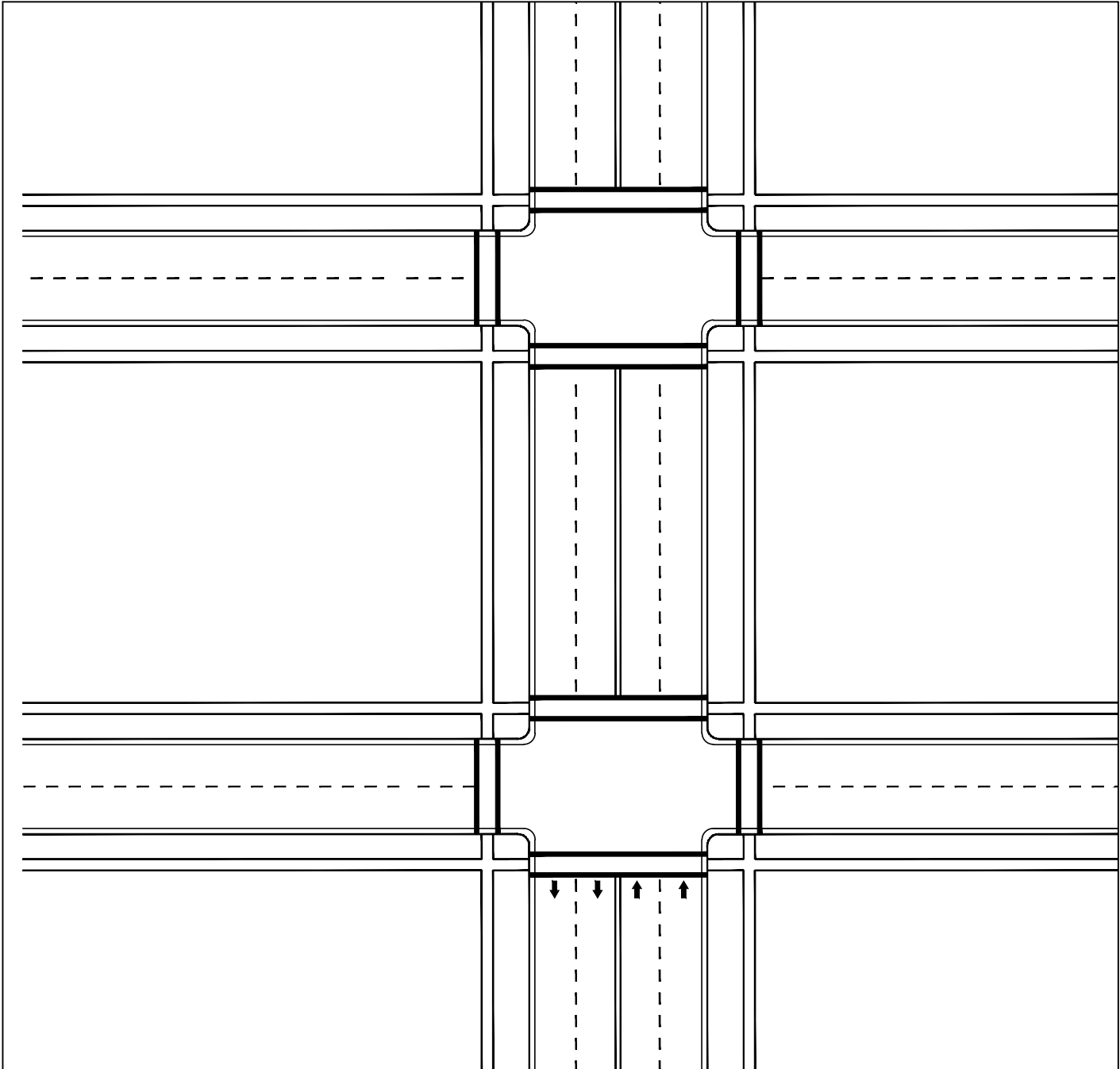
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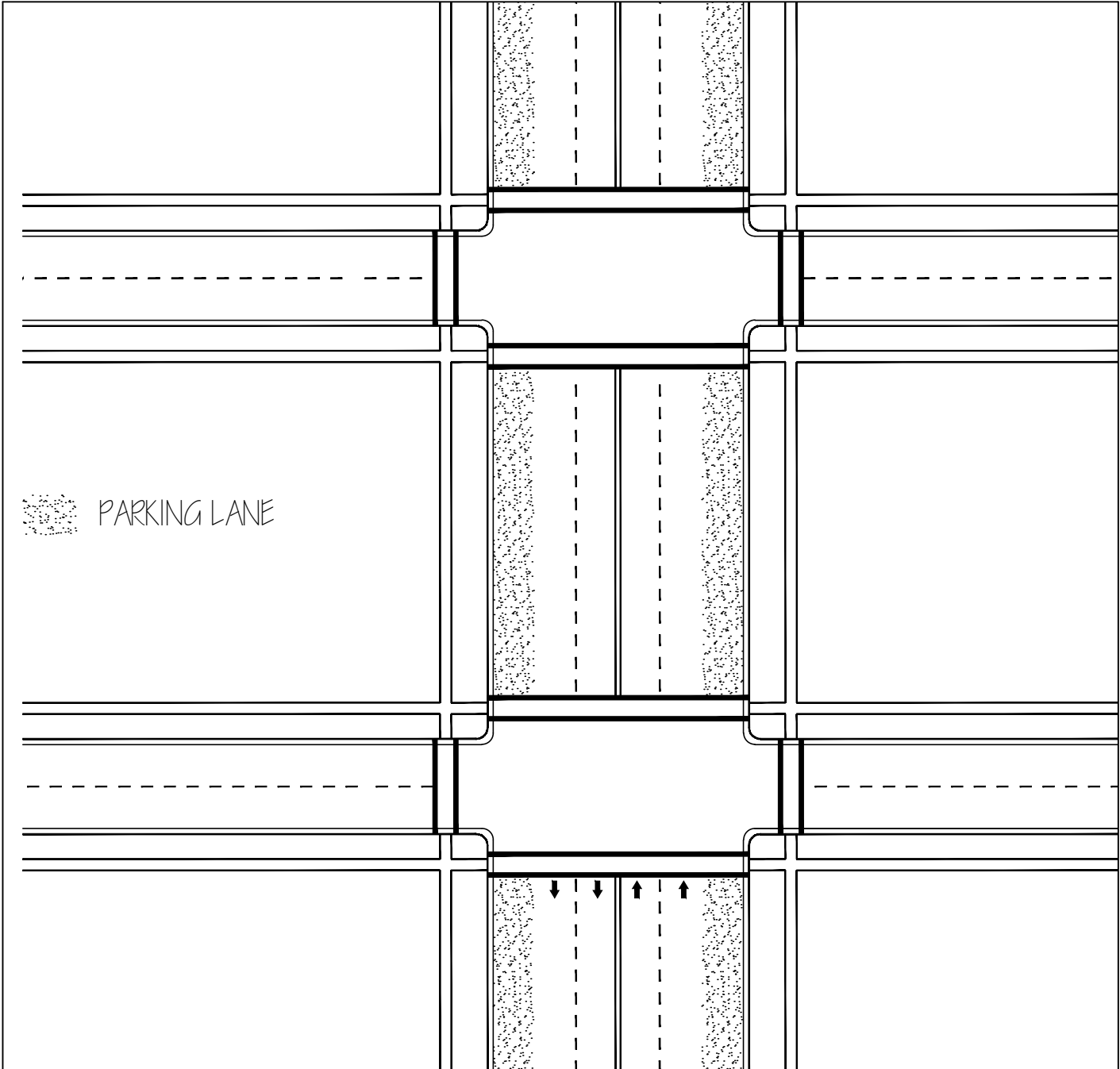
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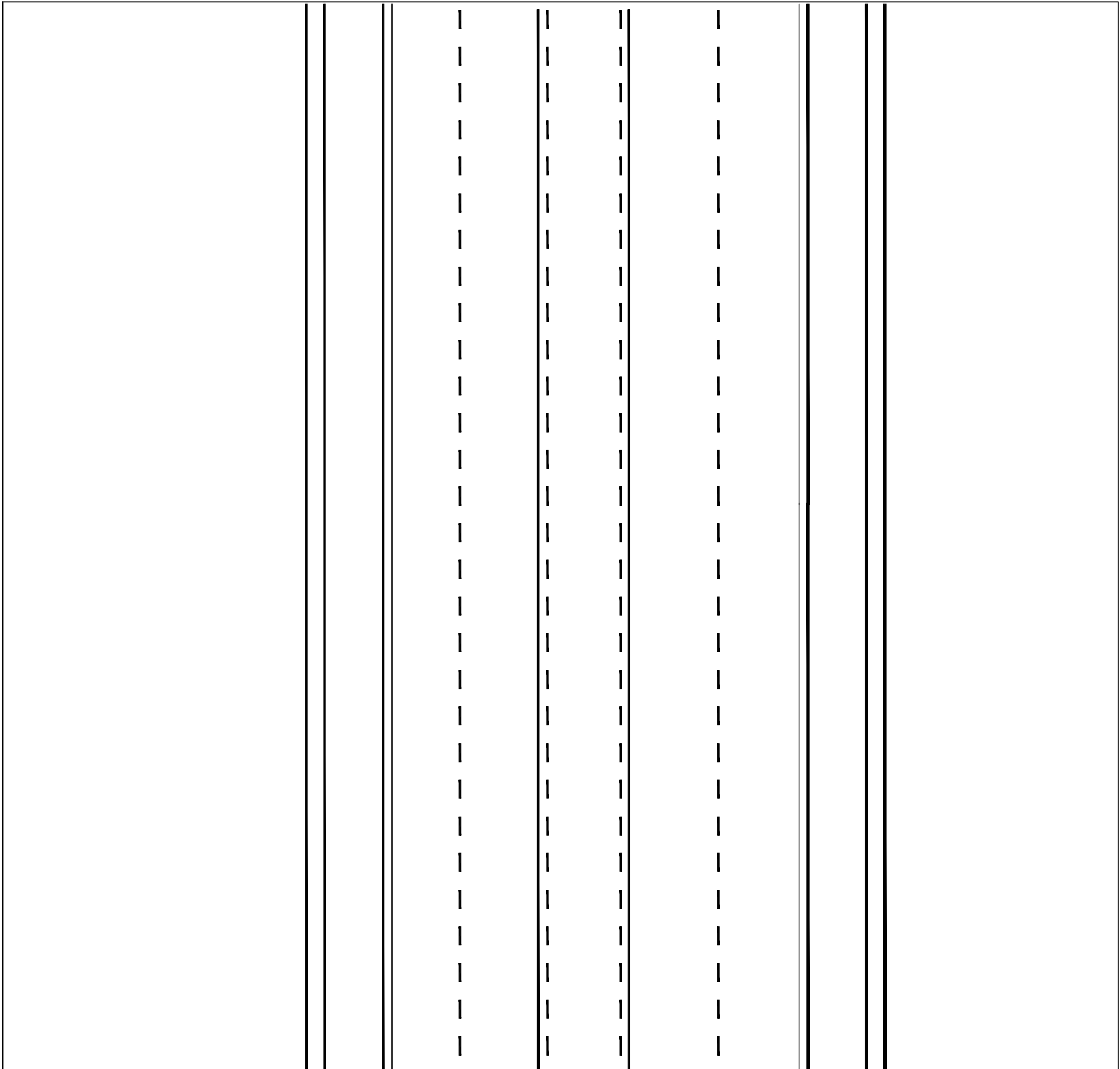
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