

Major Streets

*Village of Downers Grove
Department of Public Works
Traffic Division*

Traffic Control Procedures

*For Maintenance, Utility and Minor
Construction Operations*

July, 2003





Traffic Control Procedures Maintenance, Utility and Minor Construction Operations

PURPOSE:

The following **Traffic Control Procedures** are established to provide basic requirements for design and application of traffic control devices required for all utility, maintenance and minor construction work within the Village of Downers Grove, Illinois. These guidelines have been developed to be applicable to all roadways in town. The applications presented herein shall be considered as minimum requirements. Additional worker and motorist protection shall be provided when special complexities and hazards prevail.

The objectives of these procedures are to:

- 1.) Coordinate construction and regulate street disturbance activities
- 2.) Provide right-of-way ("ROW") to ROW and block to block guidance for each applicant
- 3.) Encourage smart designs/spatial assignments for multiple applicants in close proximity
- 4.) Create a moratorium on certain streets, as required.

APPLICABILITY:

These **Traffic Control Procedures** shall apply to Village of Downers Grove personnel, contractors working for the Village, utility companies and/or their contractors, and Village residents. These procedures apply to *minor* street disturbance projects anticipated to be at least two hours (2 hr.) long and not exceeding six (6) days in duration. All other projects shall be considered *major* construction projects and shall be subject to additional traffic control requirements not listed herein.

Typical projects include residential, commercial, basic maintenance and utility work on Village right-of-way including but not limited to sidewalks, shoulders, parkways, driveways, and streets involving:

- | | |
|--|-----------------------------|
| - Home and driveway construction | - Water main breaks |
| - Sanitary and Storm Sewer maintenance | - Street repairs |
| - Utility work (ComEd, Nicor, etc.) | - Landscaping/forestry work |

The core principles to be followed in the application of traffic control devices are:

- 1.) Provide optimal safety and protection for workers on site, and to safely expedite traffic flow through the work area.
- 2.) Provide motorists with clear, positive guidance while approaching, traversing, or detouring the work area.
- 3.) Design the field work to minimize construction time, unnecessary road closures, and public inconvenience.



WORK BY CONTRACTORS, OTHER AGENCIES, RESIDENTS

PROCEDURE

1.) The Applicant is required to attend a face-to-face meeting with the Public Works or Code Services Departments. A Permit must be obtained from the Village. Both Public Works and Code Services shall each have copies of these **Traffic Control Procedures**. Village staff will attach one or more of the most applicable traffic control applications to each work permit for that specified work. The applicant shall be responsible to read and comprehend both the textual and graphic portions. Should the project work change significantly either in scope or duration, the applicant shall be required to re-submit for a new permit for the same work location.

2.) A copy (mail or fax) of the applicant's work permit with the proposed traffic control application shall be forwarded to the Traffic Division Manager.

3.) The Village Operations Center (VOC) at 434-5703 and the Public Works Department's Traffic Division at 434-5460 shall be notified at least twenty-four (24 hr.) hours in advance after APPLICANT receives the required permit(s) for their work from the appropriate Village department.

4.) The applicant shall supply all material, equipment and personnel necessary to complete the traffic control installations, for the proposed permit work specified. All vehicles and equipment shall have the Contractor's name in a visible location. The following local resources rent traffic control equipment to the Public:

- NES/ACCI Traffic Safety (Mr. Mark Cronin)
12225 Disk Drive
Romeoville, IL 815-372-2300 815-372-3233 FAX
- Traffic Control & Protection (Ms. Denise Chicoine)
31 W 625 Smith Road www.tcpsigns.com
West Chicago, IL 60185 1-888-930-7446 630-584-3425 FAX
- United Rentals – Highway Technologies (Mr. John Yundt)
880 North Addison Road
Villa Park, IL 60181 800-323-2462 www.unitedrentals.com
- Western Remac, Inc. (Mr. Serge Ruffolo)
1740 Internationale Parkway
Woodridge, IL 60517 888-744-6765 630-972-9680 FAX
www.westernremac.com



WORK BY CONTRACTORS, OTHER AGENCIES, RESIDENTS
(Cont'd)

- 5.) The Applicant shall not commence the work project until:
 - a.) He/She has received the appropriate Traffic Control (“TC”) sheet(s) from the Village Public Works or from Code Services Departments, and
 - b.) The appropriate traffic control application is installed in the field.

- 6.) Any and all projects shall comply with all State statutes and local ordinances. The applicable local ordinances can be found in the Downers Grove Municipal Code, Chapter 19.

Authorization to Stop a Project

In the event the applicant upon notice, fails to satisfactorily respond and/or correct the traffic control plans, devices, or personnel within **one (1 hr.) hour** of receiving notice, the Village reserves the right to stop the project, and revoke the permit.

Restoration of Roadway Pavement Markings

In the event the applicant removes, destroys, or otherwise damages roadway pavement markings during the course of their project work, they shall be responsible to restore the pavement markings generally to their previous condition on or about the same location. The Village’s **Pavement Marking Guidelines** shall be followed for that work.



TRAFFIC CONTROL DEVICES APPLICATIONS (GENERAL)

DEFINITIONS:

- **Major streets** in town shall be considered to be minimum of 3-lanes, but generally are 4-lanes of travel. The major streets include Village, County and IDOT-maintained roadways.
- **Local streets** are the neighborhood streets, which are typically 2-lanes wide.
- The “**Work Zone**” shall be considered to be whatever object or obstacle is disturbing the street ROW, including but not limited to vehicles, holes, or work materials.

TO DO:

- All traffic control devices shall conform to the Manual of Uniform Traffic Control Devices for Streets and Highways (MUTCD), Millenium Edition, latest revision. Traffic control devices include signs, barricades, striping, and hand signaling devices.
- All cones, barricades, barrels, shall be from an authorized manufacturer and approved by Illinois Department of Transportation (IDOT).
- All workers within construction work area shall wear high-visibility clothing, visible for 1000’ min. distance.
- Work vehicles on site shall also have operating flashing lights.
- The use of flaggers with “Flagger” signs shall required to maintain two-way travel when less than fifteen (15 ft) feet are available and when the work area requires a section of one lane to be closed off. When used, flaggers shall be certified by, and follow IDOT flagging procedures.
- Traffic control devices should be removed, covered, or turned so as not to be seen by motorists, either when no longer needed for work, or during work stoppage. Work stoppage is considered to be 3 hours or longer.
- Work vehicles shall be **parked on the same side of the street** as the work area.
- At no time shall work vehicles be parked on **both** sides of a roadway.



TRAFFIC CONTROL DEVICES APPLICATIONS (DETAILED)

Major Streets

- Construction warning signs to be 48” x 48” size, unless otherwise stated. Supporting signs shall be (min.):
 - Sidewalk Closed Use other Side (18” x 24”)
 - Ped Crossing Arrow (30” x 18”)
 - Sidewalk Closure (18” x 24”)
 - Keep Right(Left) of Median regulatory (30” x 36”)
 - Keep Right(Left) regulatory (30” x 36”)
- At least 50% of all Barricades to be used from dusk to dawn shall have operable “Flashing” warning lights.
- Sign Spacing shall be:
 - 200’ min. for posted Speed Limit 35 mph or more.
- Barricade Types shall be:
 - Regular Cones, drums, or barricades (28” high min.) for tapers.
 - Type II (36” high) with flashing lights separating Work Zone from vehicle traffic.
 - Type III (60”) are generally reserved for Road Closure locations.
 - Orange Tubular cones or barrels (36” high) separating 2-way traffic flow.
- Barricade Tapers approaching the work zone shall be:
 - 150’ min. for posted Speed Limits 35 mph or higher.



TRAFFIC CONTROL DEVICES APPLICATIONS (DETAILED)

Local Streets

- Construction warning signs to be 36” x 36” size, unless otherwise stated. Supporting signs shall be as listed under Major Streets above.
- Sign Spacing shall be:
 - 100’ min. for posted Speed Limit 30 mph or less.
- Barricade Types shall be:
 - Regular Cones, drums, or barricades (18” high min.) for tapers.
 - Type II (36” high) with flashing lights separating Work Zone from vehicle traffic.
- Barricade Tapers shall be:
 - 50’ min. for posted Speed Limits 30 mph or less.

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TRAFFIC CONTROL PROCEDURES

Traffic Control Meaning of Symbols

Application TC-1

	Arrow panel
	Arrow panel support or trailer
	Changeable message sign or support trailer
	Channelizing device
	Crash Cushion
	Direction of temporary traffic detour
	Direction of traffic
	Flagger
	High level warning device (Flag tree)
	Luminaire
	Pavement markings that should be removed for a long term project
	Sign (Shown facing left)
	Surveyor
	Temporary barrier
	Temporary barrier with warning lights
	Traffic or Pedestrian signal
	Truck mounted attenuator
	Type III Barricade
	Warning lights
	Work space
	Work vehicle

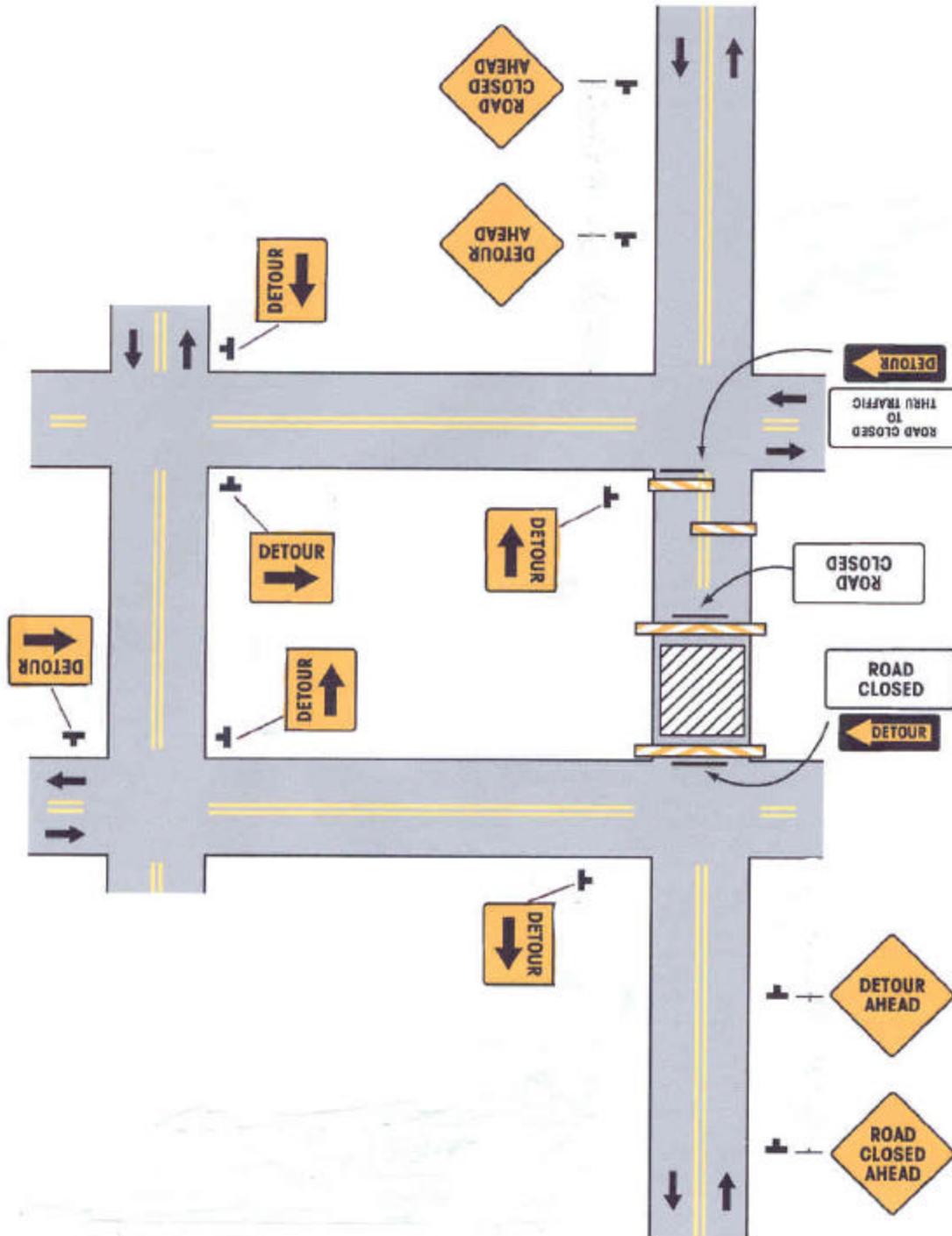
Note: The following traffic control devices are NOT TO SCALE, and shown as graphic representations only.



TRAFFIC CONTROL PROCEDURES

General Detour Signing

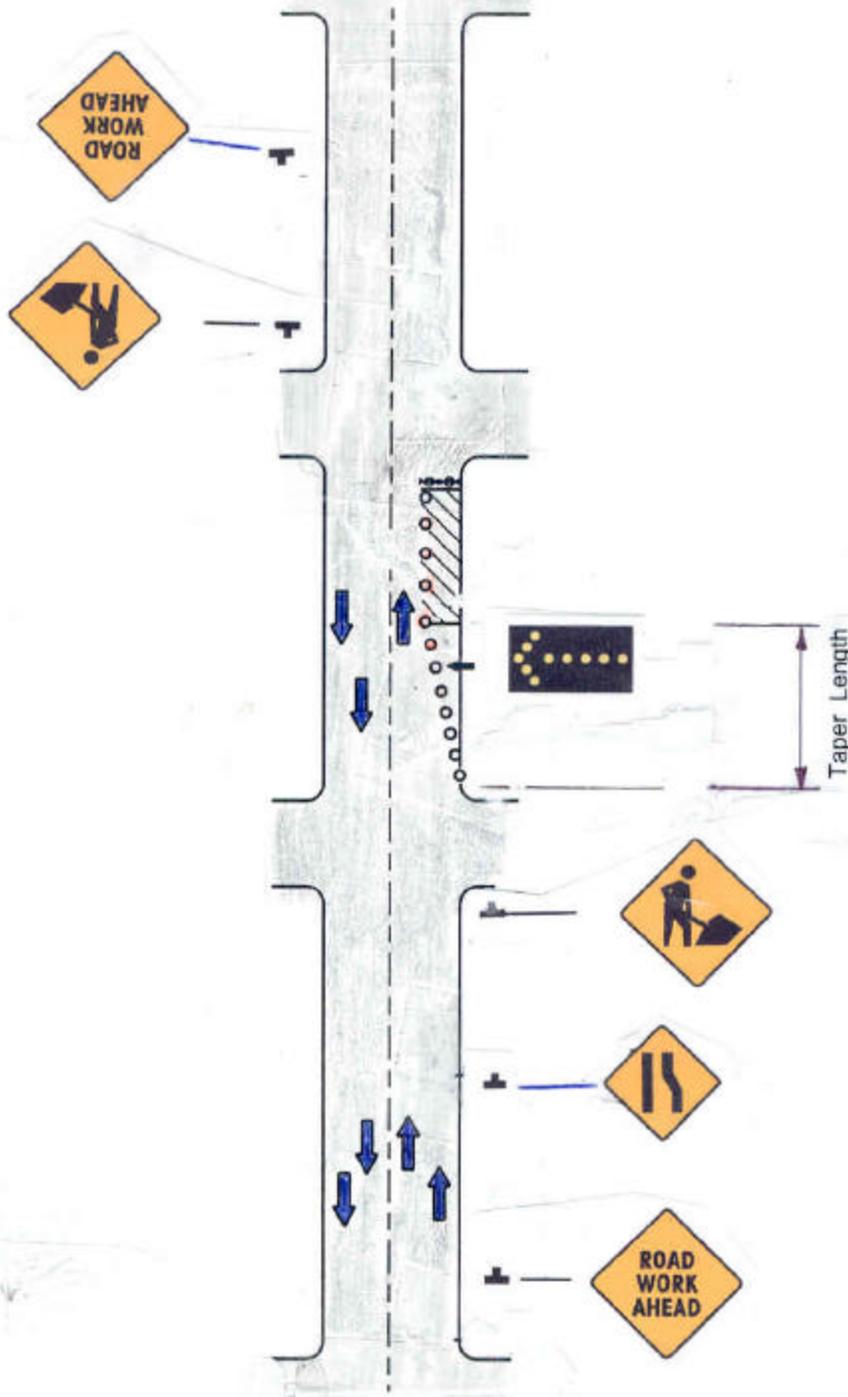
Application TC-2



TRAFFIC CONTROL PROCEDURES

One-Lane Closure
Major Street

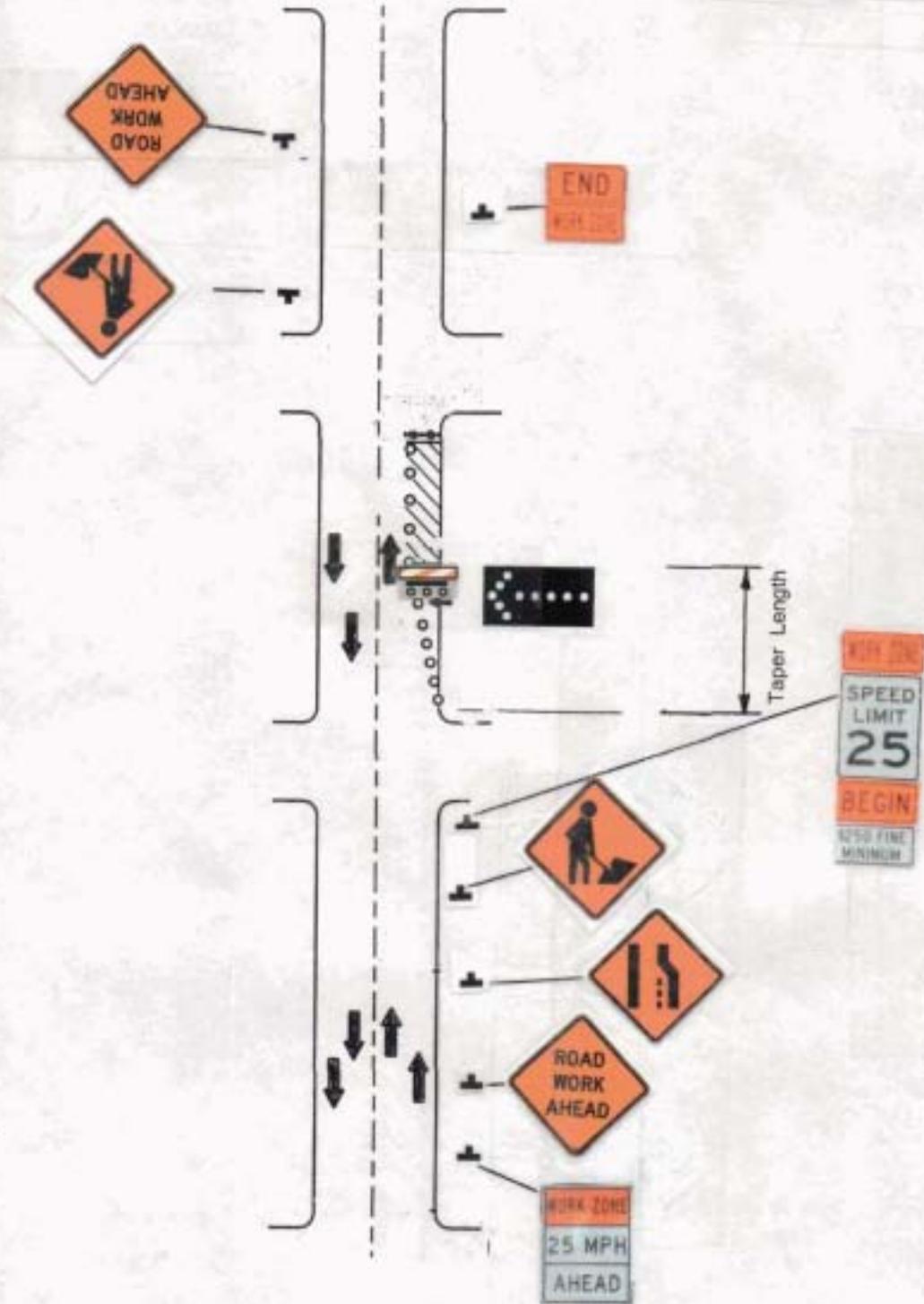
Application TC-3



TRAFFIC CONTROL PROCEDURES

One-Lane Closure
Major Street (Speed Limit 35+)

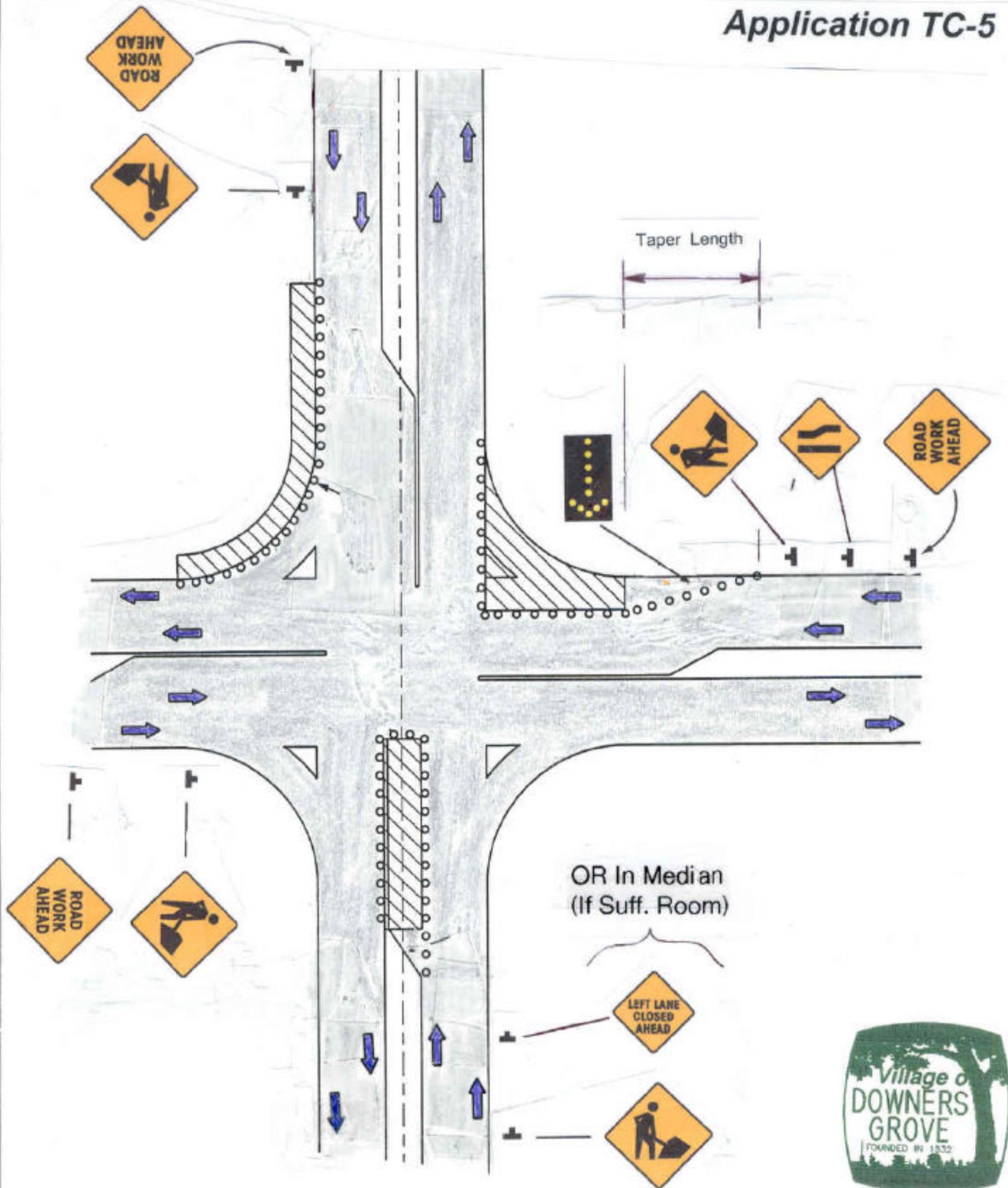
Application TC-3a



TRAFFIC CONTROL PROCEDURES

Intersection Spot Work
Major Street

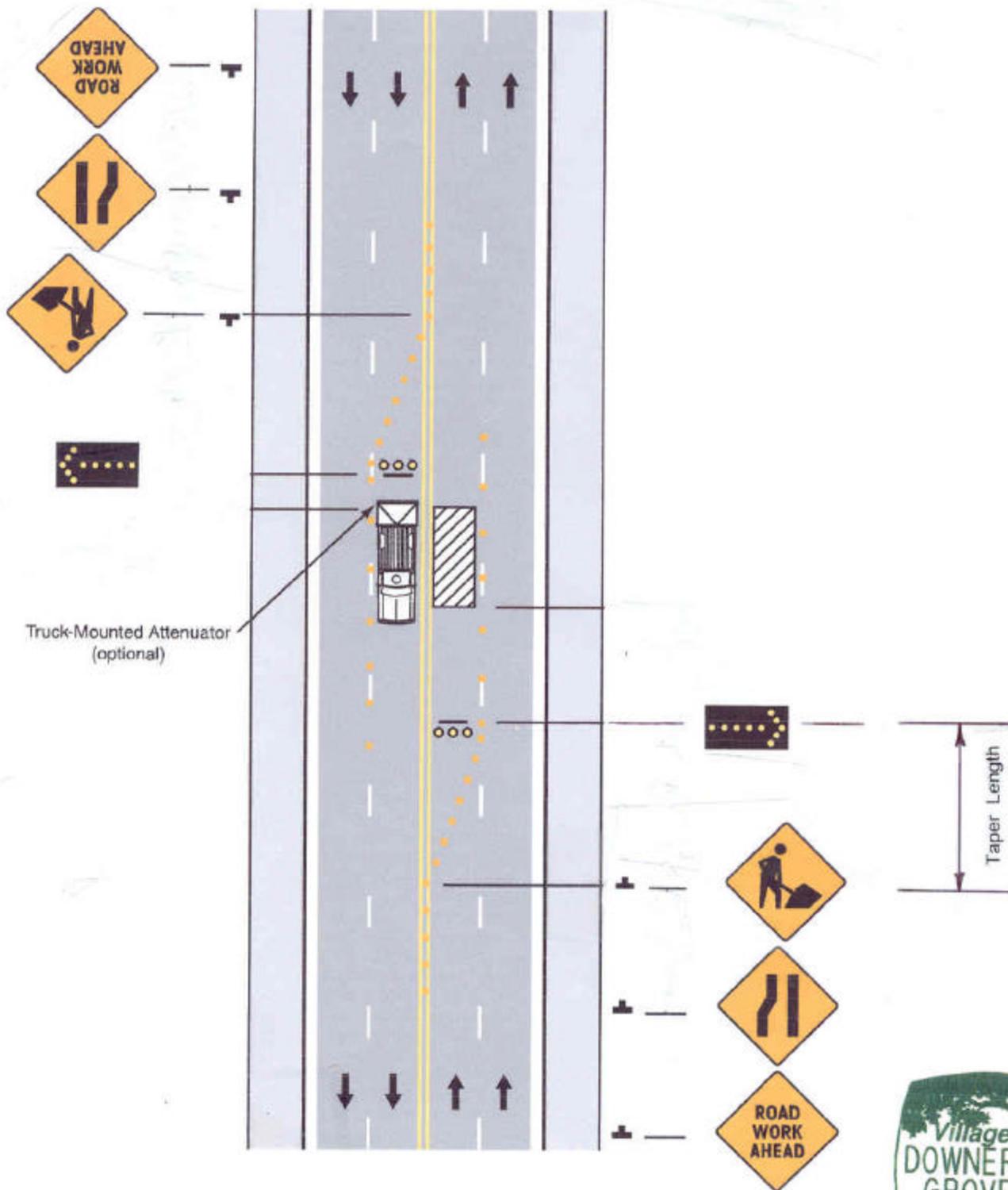
Application TC-5



TRAFFIC CONTROL PROCEDURES

Center Lanes Closure
Major Street

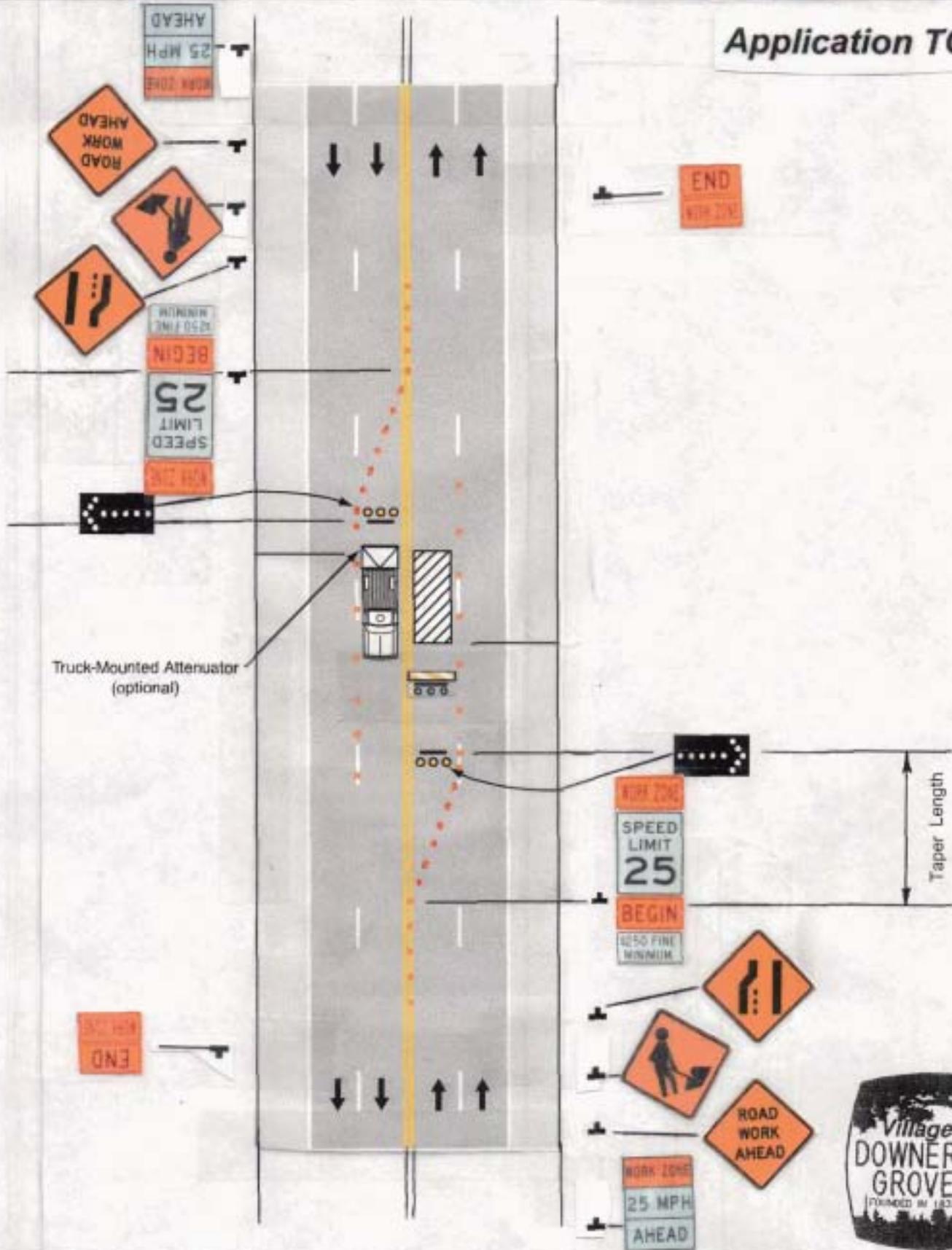
Application TC-7



TRAFFIC CONTROL PROCEDURES

Center Lanes Closure
Major Street (Speed Limit 35+)

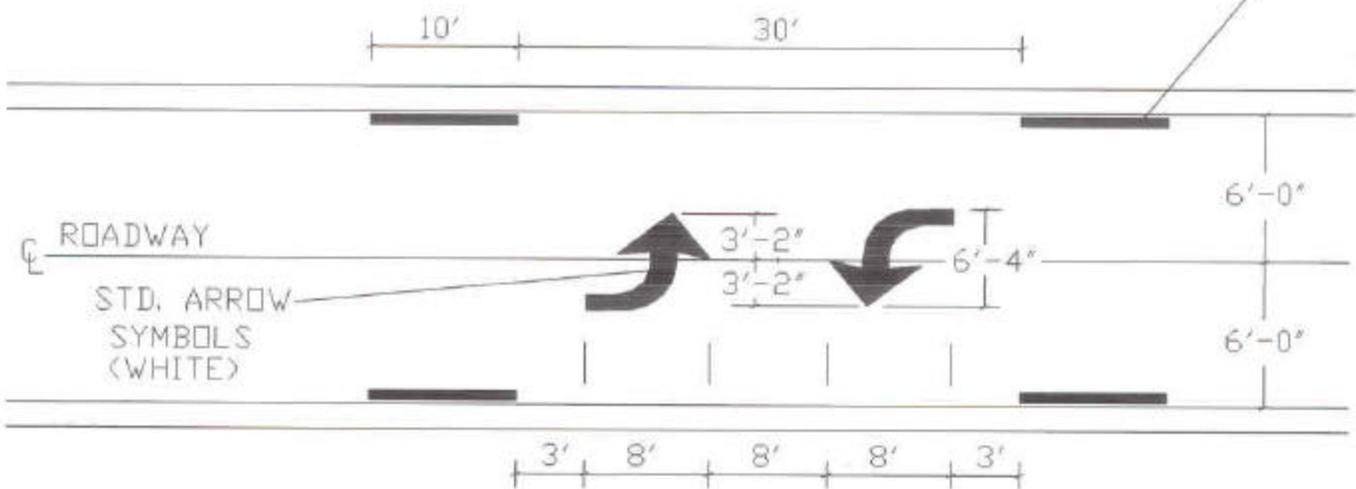
Application TC-7a



PAVEMENT MARKING GUIDELINES

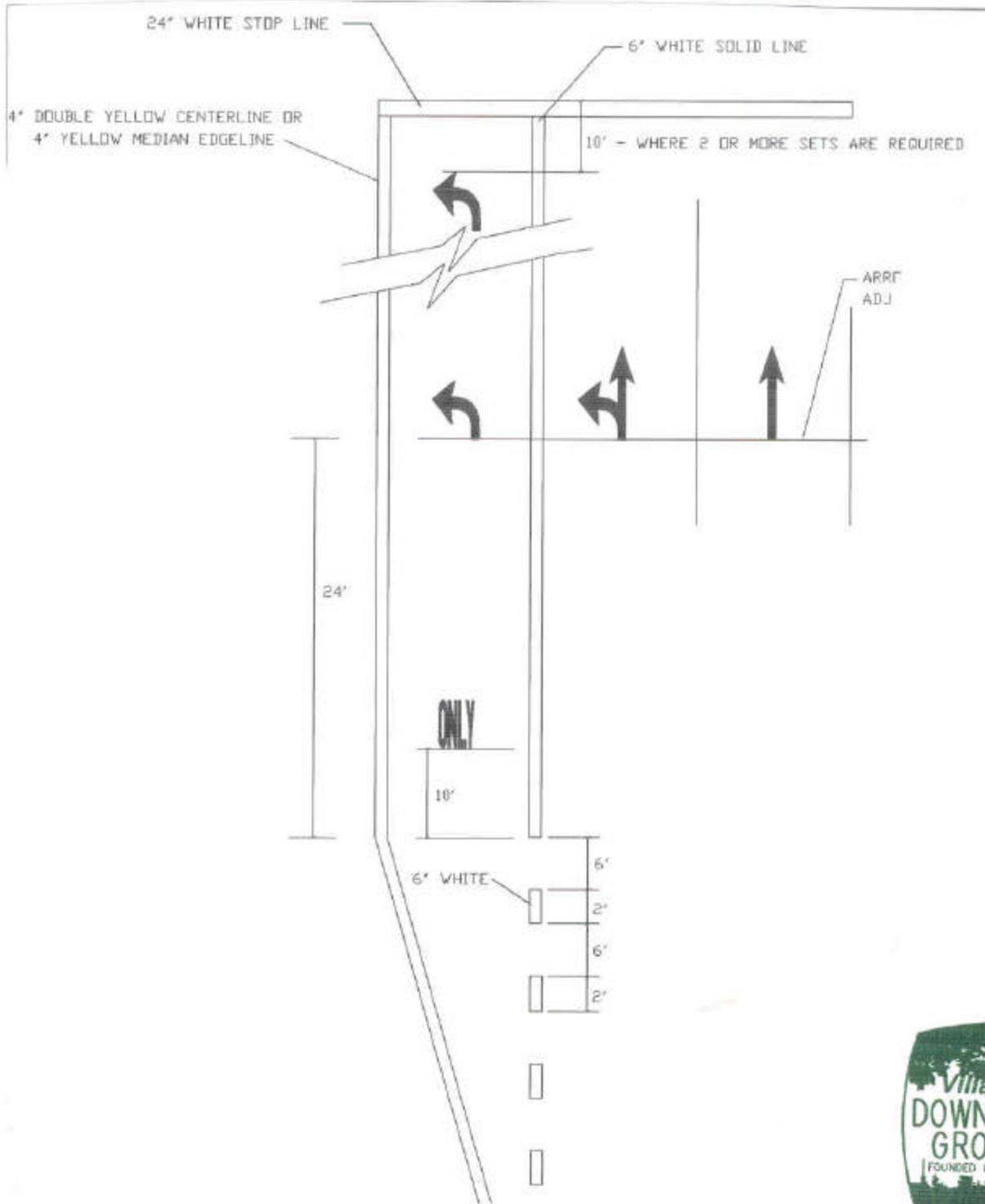
TWO-WAY LEFT TURN CENTER LANE MARKINGS

4" YELLOW LINES
5 1/2" C. TO C. TYPICAL



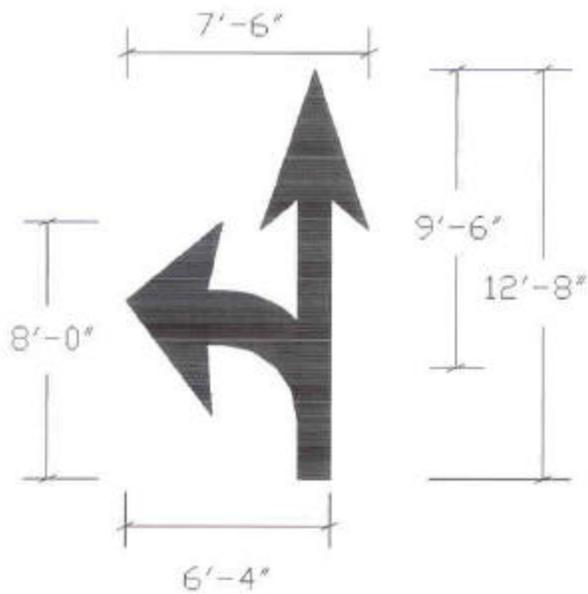
PAVEMENT MARKING GUIDELINES

DIRECTIONAL LANE MARKINGS



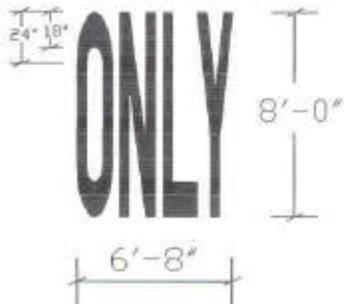
PAVEMENT MARKING GUIDELINES

DIRECTIONAL LANE MARKINGS DETAILS



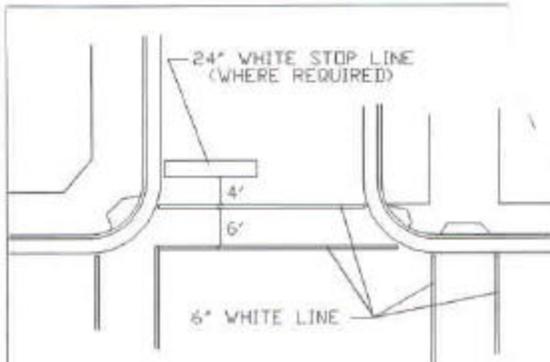
ALL LETTERS AND
SYMBOLS: WHITE

	SQ.FT.
 OR 	15.6
	11.7
 OR 	26.0
	27.2
ONLY	22.6



PAVEMENT MARKING GUIDELINES

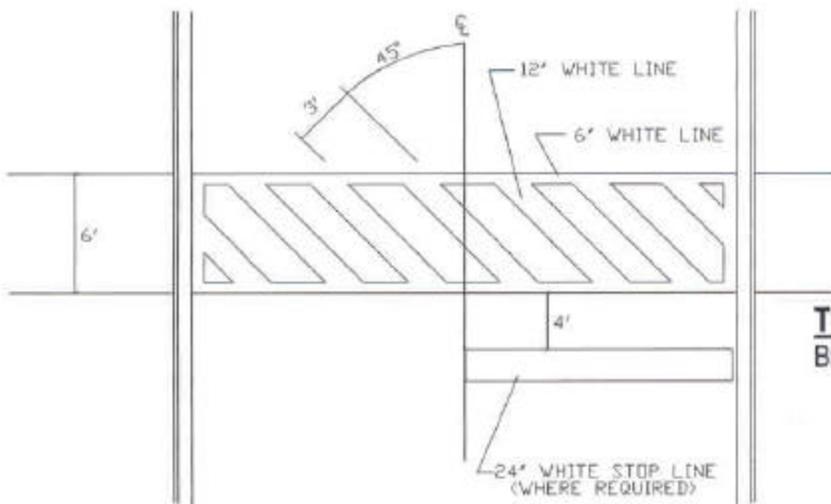
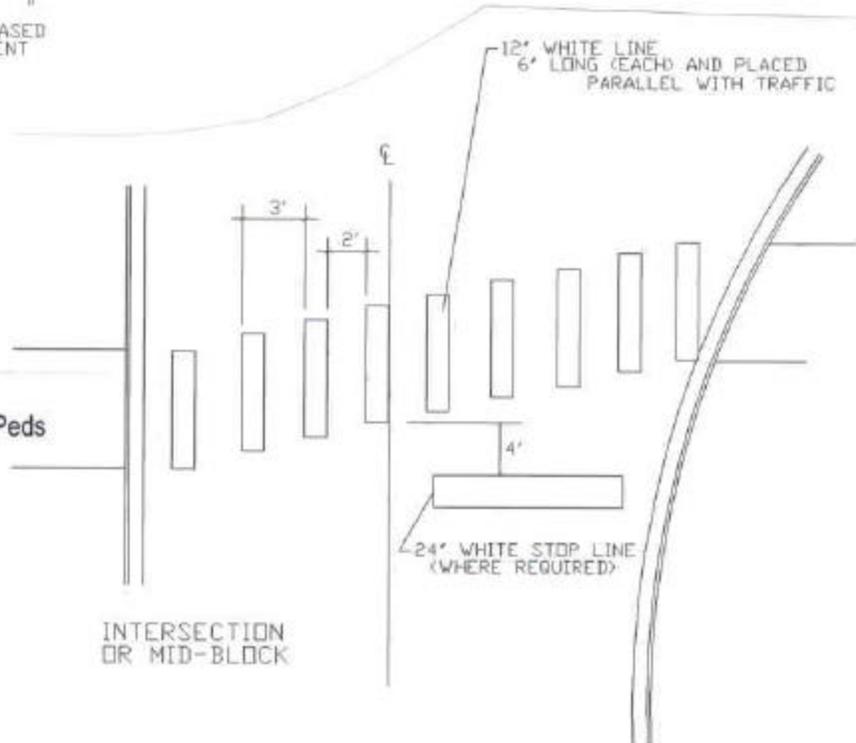
CROSSWALKS



Type 1
General

* THIS DIMENSION SHOULD BE INCREASED WHERE SIDEWALK WIDTHS WARRANT

Type 2
Schools, Peds



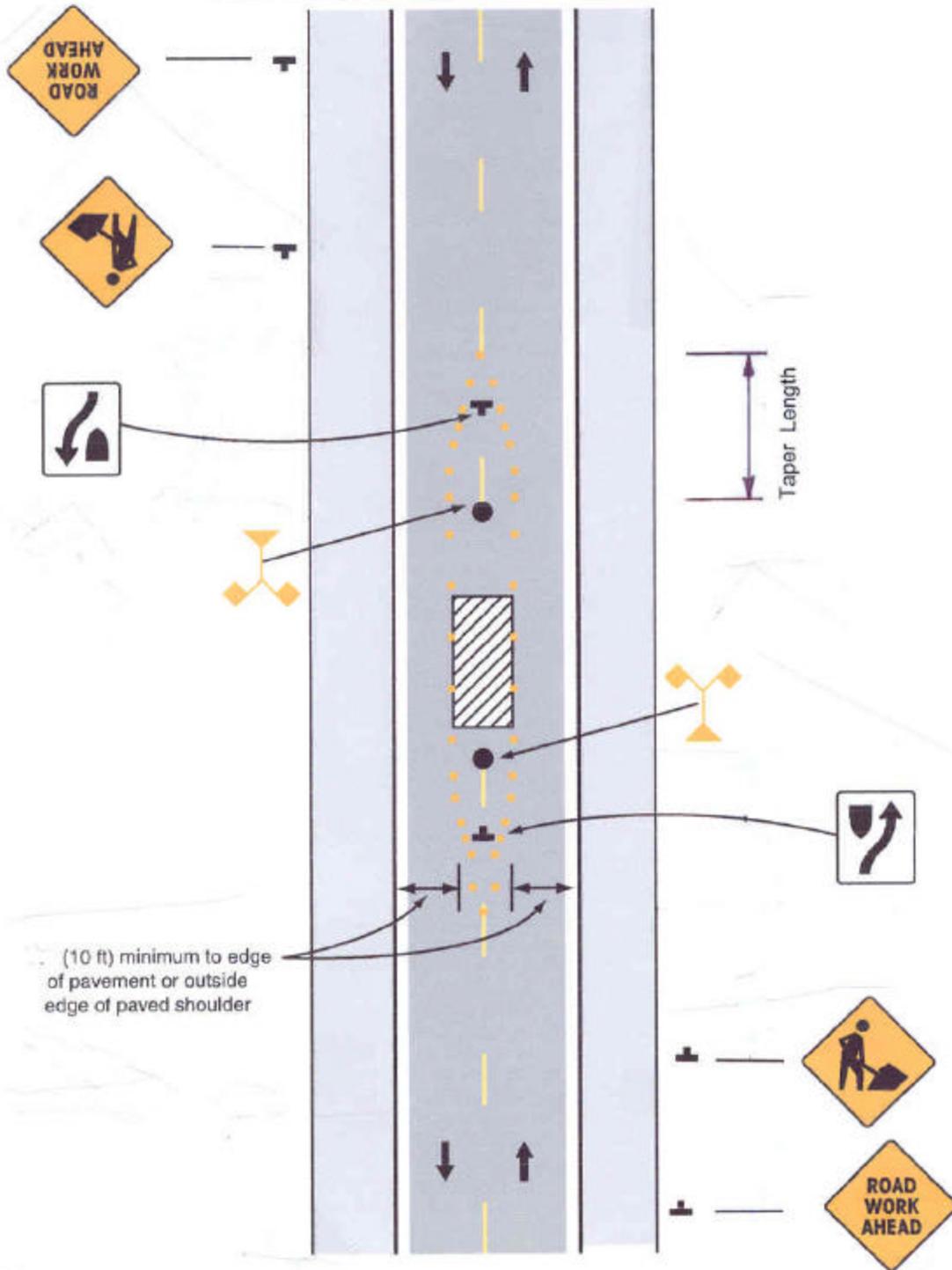
Type 3
Bikes, Equestrians



TRAFFIC CONTROL PROCEDURES

Center Lane Closure
Local Street
(> 60 Minutes)

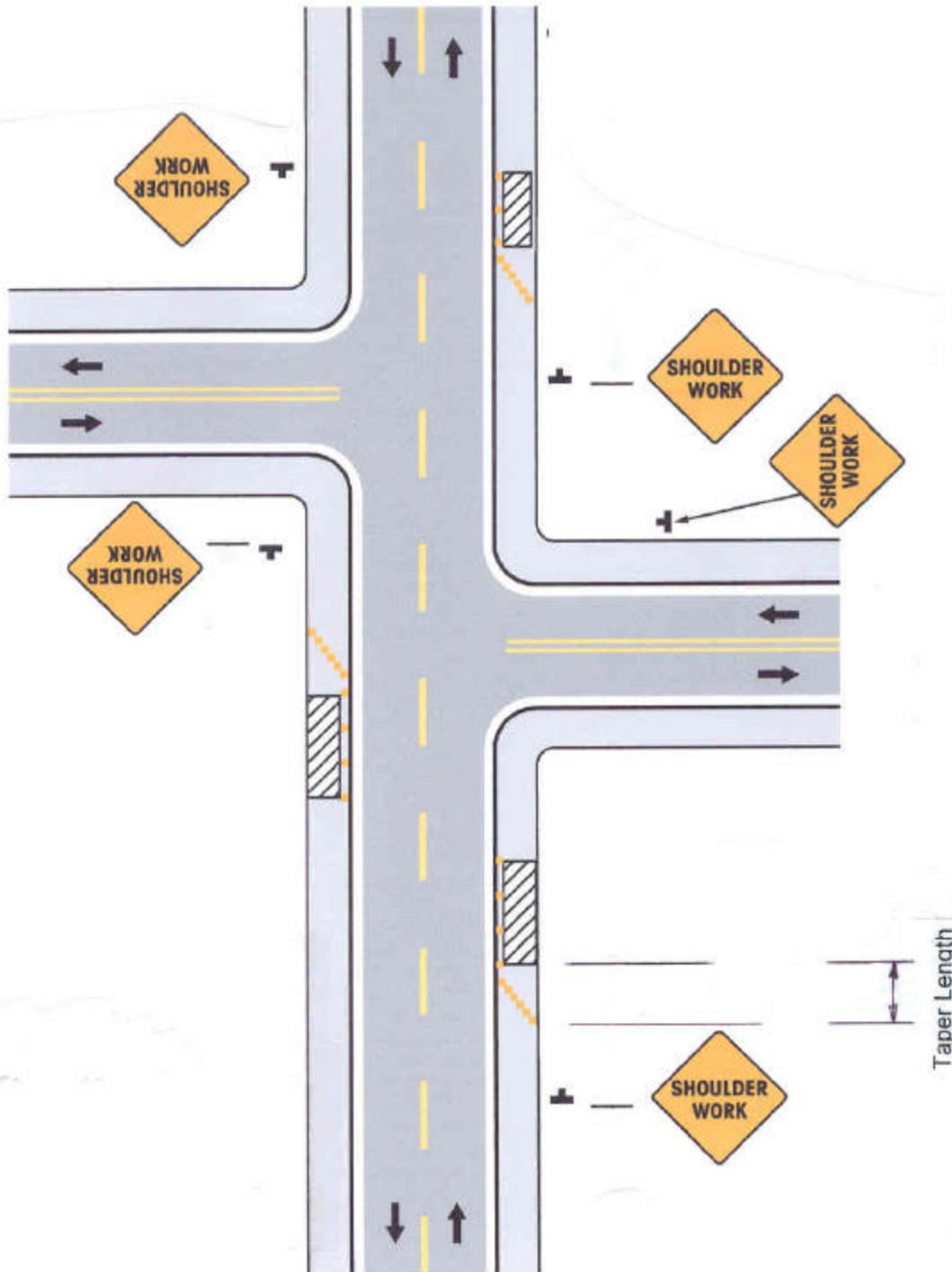
Application TC-12



TRAFFIC CONTROL PROCEDURES

Work on Shoulders
(> 60 Minutes)

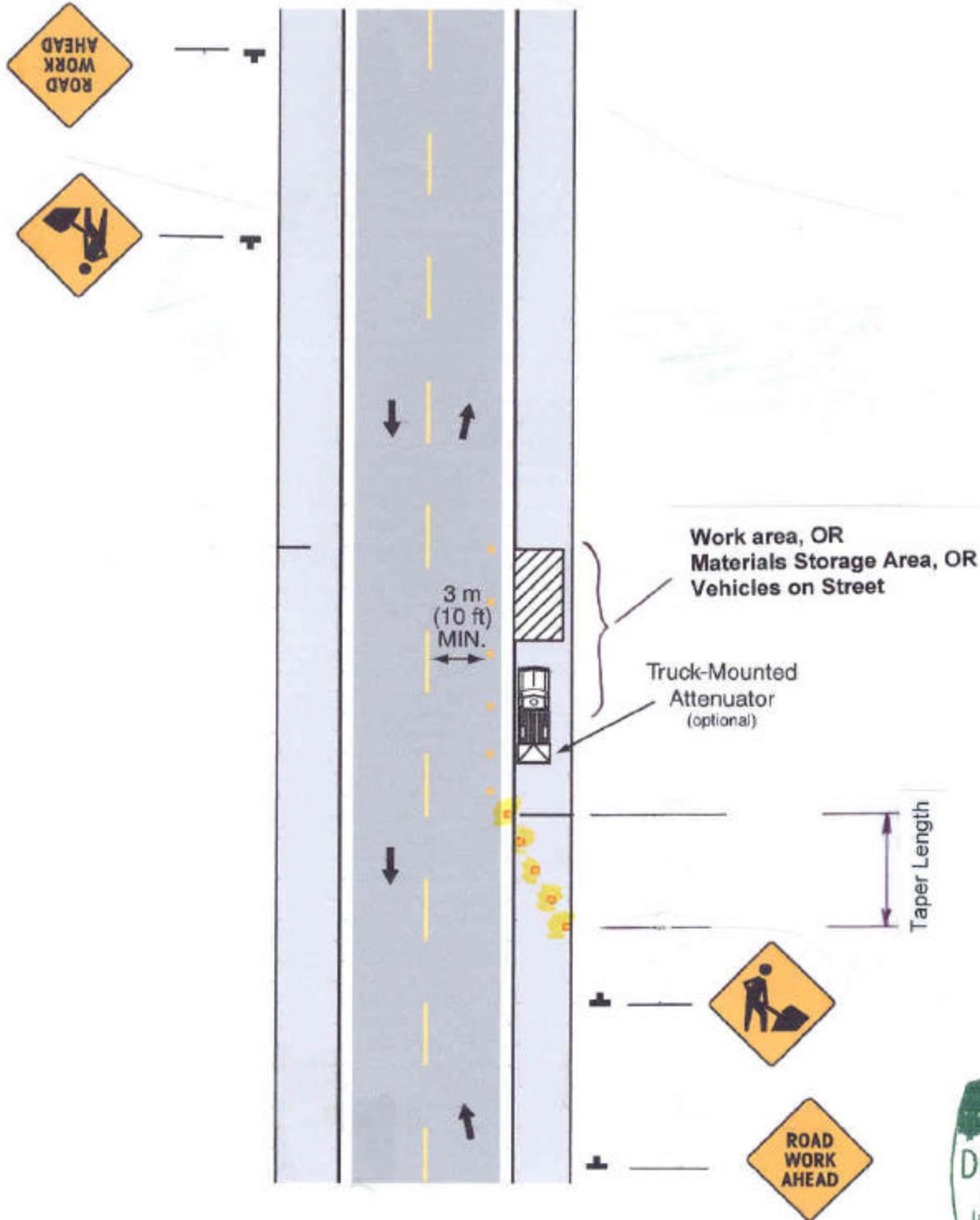
Application TC-14



TRAFFIC CONTROL PROCEDURES

Shoulder Work
(Minor Encroachment)

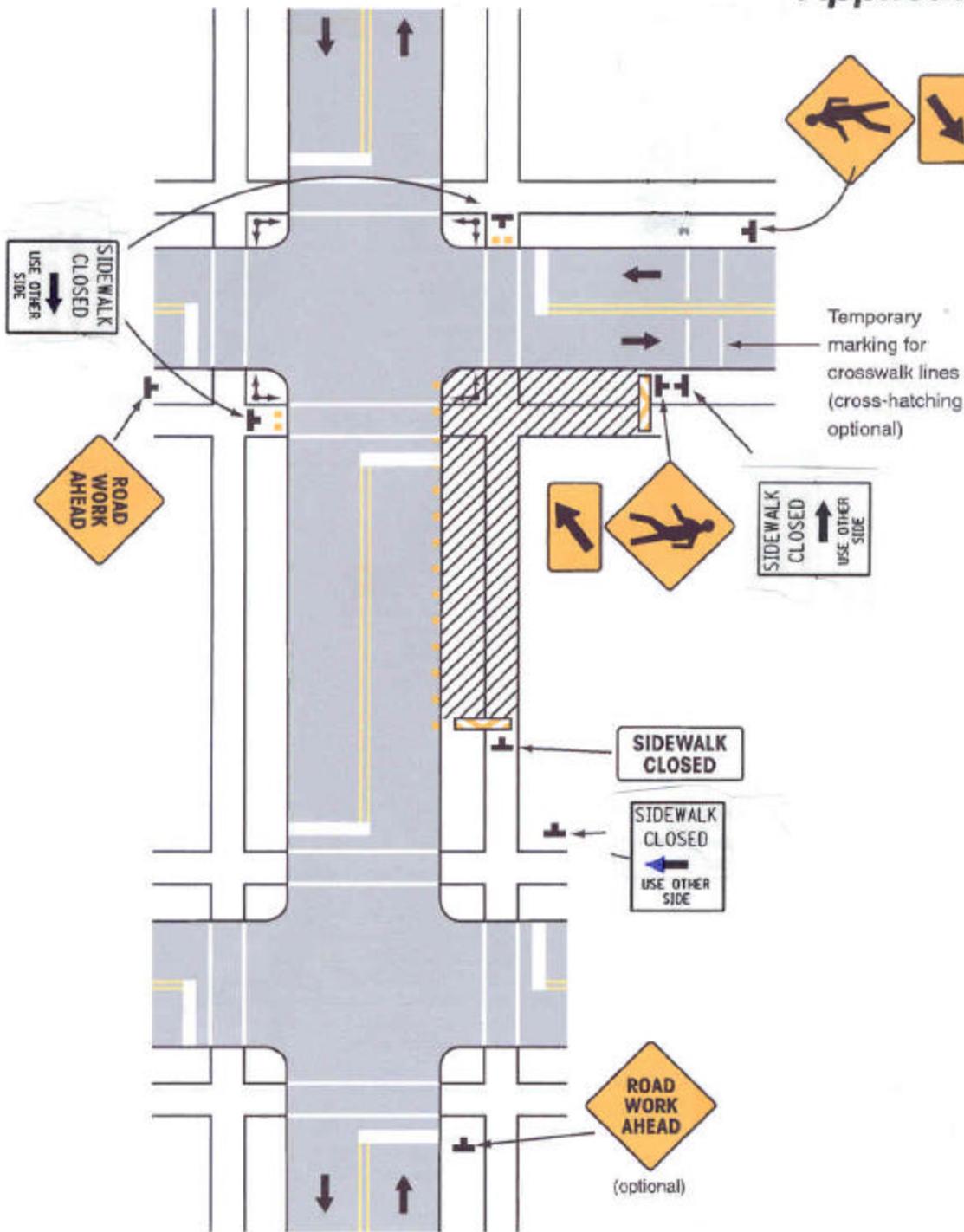
Application TC-15



TRAFFIC CONTROL PROCEDURES

Sidewalk Major Work (CBD Locations)

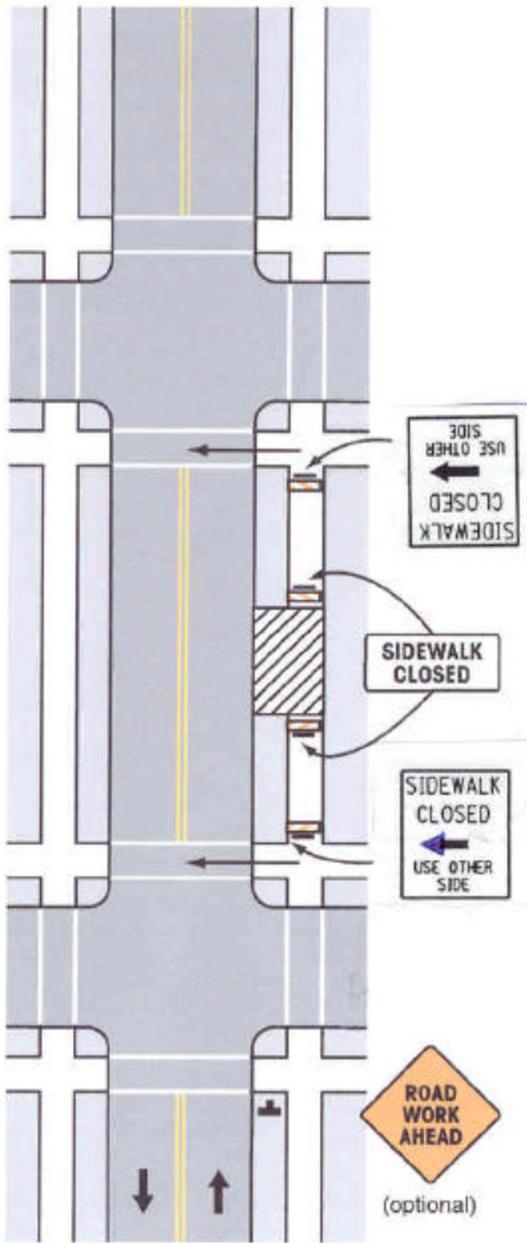
Application TC-16



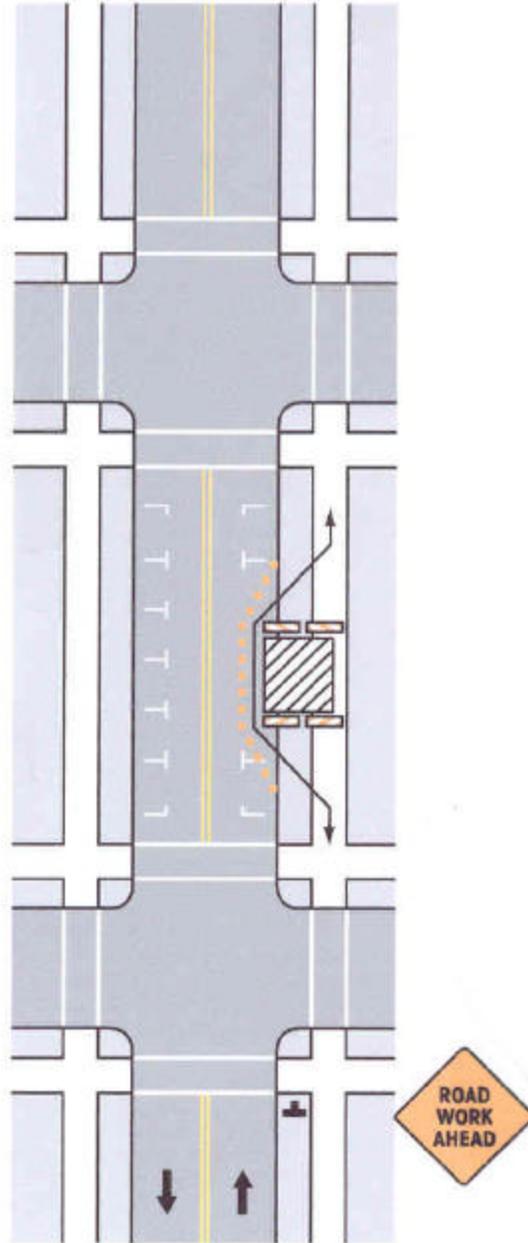
TRAFFIC CONTROL PROCEDURES

Sidewalk Spot Work
(CBD Locations)

Application TC-17



SIDEWALK DETOUR



SIDEWALK DIVERSION

