

**A. Maintenance and Protection of Traffic (PAY ITEM 0901-0001)**

- a) Section 901.1 DESCRIPTION – Revise the first sentence to read:

This work is the furnishing, installing, maintaining and protection of traffic adjacent to and within the Work Zone including the Active Work Zone, and relocating of traffic control devices.

- b) Section 901.2 MATERIAL - Revise by adding the following sentence:

For all barricades, provide barricade rails constructed of non-metallic materials.

- c) Section 901.3 CONSTRUCTION:

**ADVANCE REQUIREMENTS**

Provide two weeks advance notice to affected municipalities, respective Emergency Services, City of Pittsburgh Department of Mobility and Infrastructure (412-255-8850), local school districts, the Allegheny County Port Authority (412-566-5500) and Chuck Rompala at (412-566-5321), , PENNDOT Allegheny County Maintenance Manager (412-781-3260), and the appropriate State Representative or Senator, prior to beginning any work or imposing any traffic restrictions. Additionally, provide notification to all affected businesses and property owners four days prior to the erection of the Advance Construction Advisory signs. (District Construction Unit will provide typical form at pre-job conference.) Notify the affected parties listed above of changes to the planned work shift schedule, how and when their property access will be affected, and keep them informed at all times of changes to traffic restrictions as they occur.

Obtain an obstruction permit from the City of Pittsburgh Department of Mobility and Infrastructure and sidewalk permits as needed from the City of Pittsburgh Department of Mobility and Infrastructure, Permits Division.

Notify property owners ten days in advance of driveway or sidewalk restrictions affecting their properties.

Make a survey along with the Inspector-In-Charge or his authorized representative by videotaping and voice recording onto a DVD format the location of all existing pavement markings, existing signs, road conditions and all potential driveway and/or private problems within the project limits prior to beginning construction. Use this information in placing all pavement markings and signs. Provide an additional copy of the DVD to the Inspector-In-Charge or his authorized representative before construction begins. Properly label the DVD with the Contract #, SPN, SR #(s), date video was taken and by whom. Contact the District Traffic Engineer before making any changes to the existing pavement marking patterns, or signs or other devices.

Coordinate working schedule with any adjacent City of Pittsburgh, Department, County, and/or local projects.

Press Releases are required for all work within Department highway right-of-way. An initial Press Release for construction projects is required to be submitted ten (10)

workdays prior to the start of any project. All other press releases are required to be submitted three (3) workdays in advance of the restriction. At least three (3) workdays prior to any work or any change in traffic patterns for ongoing work on state roadways, obtain a Roadwork Notification and Approval from the District Traffic Engineer, and notify the following: District Press Officer (412-429-5010) and the District Traffic Management Center (412-429-6030) of any Traffic and/or Construction restrictions. The Roadwork Notification and Approval (RNA) Form is found on the Department website through the following link:

<http://www.dot.state.pa.us/public/Districts/District11/internet/Traffic/workapproval.pdf>.

The contractor is responsible for completing all Press Releases and forwarding them to the Inspector-In-Charge. The contractor is responsible for completing all Roadwork Notification and Approval Forms for the Inspector-In-Charge's signature and date. The Inspector-In-Charge processes the Roadwork Notification and Approval form in accordance with established procedures.

A workday is defined as any day from Monday through Friday except Holidays during normal PennDOT District 11-0 office hours. The RNA form should be submitted to the appropriate Department Unit(s) by 12 P.M. noon on the first day. The following official Department holidays will not be included as workdays:

- New Year's Day
- Dr. Martin Luther King, Jr. Day
- President's Day
- Memorial Day
- Independence Day
- Labor Day
- Columbus Day
- Veteran's Day
- Thanksgiving Day
- Day after Thanksgiving Day
- Christmas Day

Section 901.3(a) General. – Revise the seventh paragraph to read:

Construct and erect all devices in an efficient manner. Maintain, clean, and properly operate the devices during the entire time they are in use. Traffic control devices must meet the acceptable or marginal standards of the Pennsylvania Quality Guidelines for Temporary Traffic Control Devices after the devices have been installed. Only place devices a maximum of two weeks prior to implementing restrictions. Remove all devices when no longer required or not used for a period of two weeks unless authorized, in writing, by the City of Pittsburgh representative. Where operations are performed in stages, keep only the necessary devices that apply to the present stage of construction.

Section 901.3(k) WORK AREA PAVEMENT MARKINGS - Revise the third paragraph by adding the following:

When installing painted standard pavement markings on roadways where traffic is to be maintained, install "WET PAINT DO NOT CROSS LINE" (R16-102) sign as directed.

During inclement weather, where it is not possible to install pavement markings, install "NO PAVEMENT MARKINGS" (W21-16) signs with Type B light attached at intervals of

1/4 mile and/or as directed by the Project Manager. In addition, as a minimum, place channelizing devices at one times the posted speed limit along the centerline of the travel lanes. Arrange with local police to restrict parking on streets within the work area. Maintain the minimum number of lanes specified.

Ten days prior to construction, erect the Advance Construction Advisory signs on Type III barricades as depicted below.

One week prior to a road closure, erect the Advance Advisory signs on Type III barricades as depicted below. Place signs in advance of the proposed road closure in both directions.

NORTH AVENUE CLOSED NEXT WEEK (DATE)	Use 6" Series C black letters on a reflective orange background with a 1/2" black border and 6" corner radius.
TOMORROW	Cover the above "NEXT WEEK" with the "TOMORROW" sign the day before closing the road.
FOLLOW DETOUR	Cover the above "TOMORROW" with the "FOLLOW DETOUR" sign the day of closing the road.

BRIGHTON ROAD CLOSED NEXT WEEK (DATE)	Use 6" Series C black letters on a reflective orange background with a 1/2" black border and 6" corner radius.
TOMORROW	Cover the above "NEXT WEEK" with the "TOMORROW" sign the day before closing the road.
FOLLOW DETOUR	Cover the above "TOMORROW" with the "FOLLOW DETOUR" sign the day of closing the road.

After the pre-job conference and before the closure, meet with the Inspector-In-Charge to locate detour signing and identify conflicting signs which must be covered or removed.

Notify the authorized City of Pittsburgh representative prior to implementing phase change.

#### TRAFFIC CONTROL/DEVICES REQUIREMENTS

The signs and traffic control devices listed or indicated on the Traffic Control Plan or Publication 213 represent the minimum requirements for this item and as such, are for information only. The number and types of traffic control signs and devices for this

project will be predicated on the number and location of work sites, the extent of repairs and the planned sequence of operations.

Provide new traffic control signs and devices at the start of the project. Do not use reflective sheeting that is scratched, scarred, and dirty or shows evidence of loss of reflectivity. Do not use signs or devices that are cracked, bent, dented or broken. Replace reflective sheeting should it become damaged where retroreflectivity becomes defective or falls below the minimum retroreflectivity levels as per Chapter 2 of the Publication 46. Immediately repair or replace damaged, defaced or dirty signs, devices or barrier. Replace traffic control devices as necessary as per Appendix C in the Publication 213.

For long-term temporary traffic control set-ups, place an identification marker on the back of the sign listing the ECMS number so that the sign can be distinguished from other projects' signs.

Mount all construction warning signs (W series), R11-2, R11-2-1, R11-3A, R11-4, and G20-1 for long-term operations on Type III barricades. Include one Type B light on each W series and R11-3A signs and two Type B lights on R11-2, R11-2-1, and R11-4 signs. If it is not possible to mount construction warning or other signing as indicated or specified, submit an alternate method for approval by the City of Pittsburgh's authorized representative.

Do not position construction warning signs on sidewalks unless the signs can be positioned to meet the minimum requirements stated in Publication 213. If construction warning signs cannot be positioned to meet the minimum requirements, then signs should either be field-adjusted per the Inspector-in-Charge's approval or installed on "H" Bases per the TC-8717 Standards.

Provide additional channelizing devices and barricades at intersections, major driveways and ramps to prevent vehicles from turning onto any lane closed for construction. Space channelizing devices at 5-foot intervals or as directed by the City of Pittsburgh's authorized representative or the Inspector-In-Charge.

For short term night time operations, place a Type B light on all W-series and R11-3A signs and two Type B lights on R11-2, R11-2-1, and R11-4 signs used in the traffic restrictions.

The contractor shall have a sufficient amount of the following signs available in case their use becomes necessary: W3-4 "BE PREPARED TO STOP" and W20-7 "FLAGGER SYMBOL". These signs are not intended to be part of the required normal traffic control or a supplement thereto.

When flaggers are used, they must be properly attired. This includes, but is not limited to, vest, leggings, and hard hat.

For overnight operations, if located within 500 feet of any residence or business use arrow panels that are electrically, solar or battery operated.

Provide a Traffic Control Supervisor or Supervisors and phone numbers where they can be reached on a 24 hour - 7 days a week basis for the duration of the project. The Traffic

Control Supervisor must be knowledgeable of work zone traffic control including incident management. The Traffic Control Supervisor must have a thorough understanding of the Manual on Uniform Traffic Control Devices (MUTCD) and Publications 212 and 213. The Traffic Control Supervisor shall attend the pre-job meeting. The Supervisor's responsibilities are as follows:

Notify District Public Relations Office, affected municipalities and property owners of all traffic restrictions. Prepare News Releases and submit to the Inspector-In-Charge for his concurrence prior to the final submission to the District Office.

Implement and maintain traffic control schemes. Place and maintain all traffic control signs and devices used on the project.

Conduct daily reviews and document the performance of traffic control signs, devices, off-duty uniformed police and temporary pavement markings during the day and night, adverse weather conditions and active and inactive construction operations, as directed. The Traffic Control Supervisor will present all MPT problems and discrepancies in writing to the Department's Inspector-In-Charge by noon of each day.

Prepare and submit the proposed corrective action to the City of Pittsburgh's Inspector-In-Charge. Correct any deficiencies or damage discovered during the daily review immediately.

Maintain a daily written record of any crashes, work zone incidents, and maximum queue lengths for each traffic pattern for the life of the project. All feedback received from the public through phone calls, in person, or in writing shall also be captured. This information shall be submitted daily to City of Pittsburgh's Inspector-In-Charge and will be logged and forwarded to the District Traffic Unit when requested.

Maintain ongoing communication with the Inspector-In-Charge regarding operations that will impact transportation operations in the project area. The Contractor shall develop and maintain lists of phone, fax numbers and e-mail addresses for the affected stakeholders within the project area, including but not limited to: Townships, school districts, emergency services, major businesses, transit companies, nearby trucking firms, and other prominent traffic generators in the project vicinity. The Contractor is responsible for notifying these groups of changes in the traffic control phasing at least 48 hours in advance of the phase change or as directed by the Inspector-In-Charge in writing when this notification occurs.

During nighttime operations, all workers must wear hard hat, Class 3 vest and leggings unless operation is behind positive protection (barrier).

A minimum of one ingress and egress point for each property must be maintained for both travel directions provided they are not separated by a barrier or grass median.

Provide access to West Park Court along West North Avenue for as long as possible until the sidewalk reconstruction from Buena Vista Street to Brighton Road begins. When the access to West Park Court along West North Avenue is restricted due to the new sidewalk construction, detour pedestrian traffic to West Park Courts rear entrance. Submit a detailed plan, including the durations and detour lengths, for satisfactorily closing the walkway to pedestrian traffic to the Inspector-In-Charge. Include the number

and type of devices to be used in accordance with the appropriate figure from Publication 213.

When the work area encroaches on a crosswalk, sidewalk or other pedestrian walkway, provide a smooth surface, without drop-offs, for pedestrian access. If access cannot be maintained, submit a detailed plan, including the durations and detour lengths, for satisfactorily closing the walkway to pedestrian traffic to the Inspector-In-Charge. Include the number and type of devices to be used in accordance with the appropriate figure from Publication 213. Do not close any crosswalk, sidewalk, or other pedestrian walkway without prior approval of the plan and at all times adheres to the submitted plan unless otherwise directed.

Do not change any part of the Traffic Control Plan and/or Section 901 without written approval of the City of Pittsburgh's authorized representative. This includes but is not limited to:

- Traffic Control Phasing
- Location and hours of operation for all off-duty uniformed police officers.
- Times and/or dates when traffic may not be restricted.
- Any short-term or long-term detours.

Limit any lane closure to the length necessary to safely perform the required work.

#### TRAFFIC/CONSTRUCTION RESTRICTIONS

- HOLIDAY RESTRICTIONS

No short-term lane restrictions are permitted on the day before, on, or after a holiday unless otherwise noted:

- Memorial Day Weekend (including the Friday before)
- Independence Day Holiday (designer to add the weekend if it falls close to a weekend)
- Labor Day Weekend (including the Friday before)
- Thanksgiving Holiday (including the following Saturday and Sunday)
- Christmas Holiday (designer to add the weekend if it falls close to a weekend)
- New Year's Day

Place steel plates over inlet excavations in open travel lanes during non-working hours.

Do not use steel plates to bridge any pavement construction.

When using plates in open travel lanes provide a metal plate of sufficient thickness and recess the plate so that the top of plate is flush with the roadway surface or provide a temporary bituminous wedge of 6-inches in horizontal length for every 1-inch of vertical depth around the exposed metal plate. Ensure the metal plate is anchored down to non-movement for either situation

When working above a traveled roadway, provide false work, netting or other means to prevent construction debris, including water, from falling to the roadway below.

Item 0901-0240 Additional Traffic Control Signs. All locations and messages must be approved by the City of Pittsburgh's authorized representative.

Section 901.4(a) Maintenance and Protection of Traffic During Construction. Revise by adding the following:

Includes floodlights, shadow vehicles, truck mounted attenuators, and associated maintenance, fuel, relocations, and operating costs for the duration of the project.

Section 901.4(b) Separate Pay Items. Revise by deleting the 6th bullet and 26th bullet.