### SECTION 624 - ACCOMMODATIONS FOR PUBLIC TRAFFIC

**DESCRIPTION**

**624.01.01 GENERAL**

***Delete this subsection in its entirety and REPLACE WITH following:***

A. The work shall consist of providing safe and effective work areas and to warn, control, protect and expedite vehicular and pedestrian traffic through the construction zone. It shall be the sole responsibility of the Contractor to provide for the safety of the traveling public within the limits of the project.

B. The work shall be performed in accordance with the latest edition of the Manual on Uniform Traffic Control Devices (MUTCD) and as specified in these Special Provisions.

***Add the following subsections:***

**624.01.70 SPECIAL TRAFFIC CONTROL, LANE RESTRICTIONS OR ACCESS ISSUES:**

A. Refer to section 107.07 for traffic and access requirements and section 108.04 for limitations of operations.

**624.01.71 TEMPORARY TRAFFIC CONTROL PLAN (TTCP):**

A. The Contractor shall submit a **"Temporary Traffic Control Plan (TTCP)"**.

1. The TTCP shall be drawn to represent existing conditions and scope of work.
2. The Contractor/Traffic Control Company shall comply with the City of Las Vegas **“Temporary Traffic Control Plan Conditions of Approval”.**
3. Acceptance of the plan shall be a condition on the Contractor prior to beginning any Work requiring an approved Traffic Control Plan.
4. For work in the Nevada Department of Transportation (NDOT), Clark County or City of North Las Vegas (CNLV) right-of-way, the TTCP shall also be submitted to the respective agencies for approval prior to the start of the proposed work.

B. A TTCP shall be required for each phase or segment of the construction.

1. The TTCP shall be submitted via CLV citizen portal at the website <https://www.lasvegasnevada.gov/dashboard>, fourteen (14) calendar days prior to the start of the proposed work.
2. The TTCP shall be prepared in accordance with the requirements of the MUTCD, specifically Part VI, latest edition.
3. The TTCP for each phase of construction will be considered separately.
4. Acceptance of the TTCP applies only to a specific phase of construction as identified on the plan.

C. There shall be no deviations from the approved TTCP unless a revised TTCP is submitted to and accepted by the Engineer or duly appointed representative. The submittal shall be made at least fifteen (15) working days prior to the need for the proposed revision.

NOTE TO SPEC WRITER: Consider larger penalties/LDs for larger projects or projects with high traffic impacts. Coordinate dollar amount with Traffic Engineering.

D. In the event a routine TTCP deficiency, including maintenance of traffic control items, is not corrected within twenty four (24) hours after notification, **a deduction in the amount of two hundred dollars ($200) per deficiency** shall be made from monies due the Contractor for each calendar day that the deficiency is allowed to remain, not as a penalty, but as liquidated damages.

E. If, in the opinion of the City Traffic Engineer or duly appointed representative, a TTCP deficiency causes an unsafe condition that requires immediate correction, the Engineer will issue the Contractor a “Temporary Traffic Control Violation Notification” at which time the Contractor will have two hours to correct the noted violation.

1. If the violation is not corrected within the two-hour time limit, the **Contractor will be assessed $200.00 per hour as liquidated damages until the violation is corrected.**
2. This condition may cause the Project to “Stop Work”; this will not be grounds for a time extension of the contract.
3. In addition to the fines listed in D. and E. above, the Contractor may also be subject to fines in accordance with City of Las Vegas Municipal Code 11.50.040.

G. As an absolute minimum for each phase of the construction, the Temporary Traffic Control Plan shall show placement and spacing of all the traffic control devices (including signs, markings, channelizing devices, lighting devices, flaggers, etc.) and their spacing within the following traffic control areas:

1. Advance Warning Signs
2. Transition Areas
3. Buffer Spaces
4. Work Areas
5. Termination Areas

H. Type B high-intensity warning lights are required on all warning signs within the advance warning and transitional areas of all traffic control and barricade setups. The Contractor shall provide Type C steady burn warning lights on channelizing devices within the transition areas of all night time traffic control and barricade setups.

I. Additionally, the temporary traffic control plans must clearly show the following minimum requirements:

1. Method for protecting excavations, work sites and school zone crosswalks
2. Method of barricading at intersections
3. Driveway access plan
4. Provisions for emergency vehicle access
5. All set-up changes to accommodate different phasing of the work
6. Lane widths and transitions
7. 24-hour emergency telephone number
8. Business Access Signs
9. Sidewalk Closed / Cross Here Signs
10. No Parking Signs
11. Project Signs
12. Fresh Oil Signs
13. Duration of Traffic Control and Barricade Plan
14. All Advance Warning Signs
15. Placement of “Double Penalty in Work Zones” warning signs

J. The above-described plan shall conform to the Special Provisions contained herein, the latest edition of the MUTCD for all temporary traffic control methods, devices and appurtenances.

K. The Contractor shall begin placing the temporary traffic control devices in the direction of traffic. The Contractor shall remove the temporary traffic control devices in a direction opposing traffic.

L. During construction the Contractor shall coordinate with the RTC regarding specific dates of bus stop closures. Simultaneous closure of two or more sequential bus stops shall be minimized in duration and will only be allowed when necessary to maintain normal production levels for work items such as asphalt placement. The TTCP shall show required signage and barricading associated with bus stop closures and all applicable requirements of the TTCP shall apply to bus stop closures.

M. For any work requiring a sewer bypass plan:

1. An approved copy of the bypass plan must be submitted in conjunction with the TTCP and account for all bypass operations.
2. Allow 15 working days for review.
3. Contractor shall not mobilize without a TTCP that matches the approved bypass plan.

**CONSTRUCTION**

**624.03.01 SPECIAL DETOURS**

***delete PARAGRAPH “A” and replace with the following:***

A. Special detours shall be constructed as shown on the Temporary Traffic Control Plan prepared by the Contractor. Detour locations indicated on the Traffic Control Plan may be approximate only; the exact location shall be staked by the Contractor’s surveyor.

***add the following paragraphs to this subsection:***

G. It is the City of Las Vegas's policy that under no circumstances will travel on a temporary gravel surface be permitted for longer than fifteen (15) calendar days. Temporary gravel surfaces shall be graded, watered and maintained at all times to provide a smooth dust free traveled surface.

H. All temporary detours and/or bypasses that are expected to be in service for more than fifteen (15) calendar days shall be hard surfaced with a minimum of 1-1/2 inches of AC pavement and maintained in a smooth and usable condition at all times for the duration of the detour and/or bypass.

**624.03.02 FLAGGERS**

***Add the following to this subsection:***

D. Proper advance warning signs shall be in place prior to beginning flagging operations and removed at the end of each shift.

E. Flaggers shall be used to assist trucks for safe ingress and egress whenever truck movements may interfere with safe passage through the work zone. The flaggers’ first priority shall be to maintain the safe and efficient movement of the public traffic. In the event that a flagger is to flag at an intersection controlled by a stop sign they must bag the sign(s) prior to taking control of traffic. If a flagger is to flag at an intersection controlled by a traffic signal the traffic signal must be turned off prior to taking control of traffic. Any changes to regulatory signs or changes to a traffic signal shall be reversed at the end of every workday, unless approved by the City Traffic Engineer or duly appointed representative. Failure to do so could result in an order to stop work.

F. Flaggers operating within 300’ of a signalized intersection shall not direct or suggest a motorist or pedestrian to disobey a traffic control device per Nevada Revised Statute 484B.300 - Obedience to devices for control of traffic; exceptions; placement of devices; additional penalty for violation committed in work zone or pedestrian safety zone.

G. The "Flagger Method” as outlined in Part VI of the MUTCD shall be used for all one lane, two-way traffic control.

***Add the following subsections TO THIS SUBSECTION***

**624.03.70 TEMPORARY STRIPING**

A. The temporary traffic striping tape material shall conform to subsection 635.02.01 of the NDOT Standards. Placement of temporary pavement striping shall be by pilot line method and its use limited to fourteen (14) calendar days. The tape shall be four (4) inches wide and four (4) feet long and spaced every forty- (40) feet. The color of the tape shall match the color of the existing line. The double yellow line shall have two pieces of tape side by side with a four (4) inch space between, and spaced to the above increments.

B. Painted temporary striping shall be 4-inches wide and shall be continuous or intermittent in accordance with the MUTCD. Painted temporary striping shall not be used on the final wearing course of the pavement.

C. Existing pavement markings, either painted or raised pavement markers, which are not applicable and are within the transverse limits of the temporary travel lanes shall be removed to the satisfaction of the Engineer. Painting over existing markings will not be allowed.

**624.03.71 TEMPORARY BRIDGING FOR VEHICULAR ACCESS**

A. Where necessary or required for the convenience of the traveling public or individual residents, businesses or schools, The Contractor shall provide temporary bridges over all unfilled excavations at all street, driveway and alleyway, crossings unless otherwise directed by the Engineer. The bridges shall remain in place until the excavations have been properly backfilled to the satisfaction of the Engineer.

B. Temporary bridges for street crossings shall conform to the requirements of the authority having jurisdiction in each case, and the Contractor shall adopt designs furnished by said authority for such bridges or shall submit designs for approval by said authority as may be required. If plates are used, they must be capable of carrying the heaviest anticipated loads using the roadway, be properly anchored so as to prevent any transverse and/or any longitudinal shifting of the plate and must be certified by a structural engineer registered in the State of Nevada. Refer to USS 208.03.21 for trench plate requirements.

NOTE TO SPEC WRITER: oPEN TRENCH LENGTH SHOULD BE EVALUATED ON A PROJECT BASIS. eNSURE THAT SECTIONS 624.03.72 (b) & 624.03.75 (3) ARE CONSISTENT.

**624.03.72 PIPE LAYING OPERATIONS**

A. Pipe stored in the street rights of way within a barricaded work zone, with the approval of or at the direction of the Engineer, which is to remain one night or more shall be protected by Barrier Rail. Type B high intensity warning lights will be installed on the barrier rail at intervals not exceeding 25 feet.

B. During working hours, the Contractor shall have no more than three hundred (300) feet of open trench and/or structure excavation nor more than one half (1/2) of an intersection closed to vehicular traffic, except with specific written permission by the Engineer. During non-working hours, the Contractor shall have no more than one hundred (100) feet of open trench and/or structure excavation barricaded in accordance with these supplemental specifications. Pedestrian access crossings suitably equipped with handrails shall be provided as directed by the Engineer. The cost of such crossings shall be included as a part of the traffic control bid item.

**624.03.73 TRAFFIC CONTROL DEVICES**

A. Trained and knowledgeable traffic control personnel shall be utilized to insure proper set-up and maintenance of temporary traffic control devices and to assist in the safe movement of vehicles through the temporary traffic control zone.

B. The Contractor shall remove from the public right-of-way all traffic control devices that are not in use or will not be used for a period greater than 24 hours. All traffic control devices that are determined by the Engineer to be unnecessary, confusing, or causing an unsafe condition, shall be removed by the Contractor from the public right-of-way immediately upon notification by the Engineer. The Contractor shall not, at any time, use the sidewalk area to store unused temporary traffic control devices unless the sidewalk is closed and an approved temporary traffic control plan is provided for rerouting the pedestrians.

C. The Contractor shall maintain all temporary traffic control devices in clean and effective condition. The Contractor shall replace poorly maintained devices immediately upon notification by the Engineer.

D. The Contractor shall begin placing the temporary traffic control devices in the direction of traffic. The Contractor shall remove the temporary traffic control devices in a direction opposing traffic.

E. **Temporary Stop Signs**: All temporary stop signs shall be installed in a semi-permanent manner in the ground or pavement surface in accordance with Standard Drawing Number 249 of the USD.

**624.03.74 TRAFFIC CONTROL SUPERVISOR**

1. The Contractor shall designate a Traffic Control Supervisor who shall be responsible for initiating, installing and maintaining all temporary traffic control devices as shown on the temporary traffic control plans, as specified in the latest edition of the MUTCD, and revisions thereto, the USS, these supplemental specifications or as directed by the Engineer. When temporary traffic control devices are on the project site the designated Traffic Control Supervisor shall be available to the Engineer twenty-four (24) hours a day for the duration of the contract. The Traffic Control Supervisor shall be an employee of the Contractor andunder the supervision of the Superintendent. The person so designated shall be certified as a worksite traffic control supervisor by the ATSSA. The name and qualifications of this person shall be submitted to the Engineer in accordance with subsection 105.02 "Plans and Working Drawings" of these Special Provisions.

B. The Traffic Control Supervisor shall be capable of being on-site within thirty- (30) minutes of notification.

C. The traffic control supervisor shall make at least four (4) inspections of all temporary traffic control devices each calendar day as follows:

1. Before beginning work
2. At mid shift
3. Half an hour after the end of the shift
4. Once during the period of non-working hours

D. The Traffic Control Supervisor shall make a daily record of traffic control activities including a reference to the temporary traffic control in effect that day. The Project superintendent shall sign the daily record each day attesting to its accuracy. The Contractor shall submit these records to the Engineer on a weekly basis.

**624.03.75 REQUIRED PROTECTION FOR OPEN EXCAVATION DURING WORKING AND NON-WORKING HOURS**

A. The following requirements apply to any open excavations where the difference in elevation between the pavement and the excavated area is greater than 6":

1. Any open excavations, in the roadway or within eighteen (18) feet of the roadway, which does not provide a 4:1 (horizontal: vertical) slope between the edge of pavement and the bottom of the excavation, shall be protected with portable precast concrete traffic barrier rails and six (6) feet high non-climb fence. All portable precast concrete traffic barrier rails shall be butted tight and pinned in accordance with the requirements of the Nevada Department of Transportation Standard Drawing RB-47A and RB-47B “Concrete Barrier Rail Portable Precast”,which is hereby incorporated into the plans.

2. Any open excavation further than eighteen (18) feet and less than three hundred (300) feet from any building or roadway, shall be, as a minimum, completely fenced with a six (6) foot high non-climb fence.

3. Any open excavation beyond three hundred (300) feet of any building or roadway shall be protected with a three (3) foot high earth berm completely around the excavation. Type II Barricades with Type B high intensity warning lights shall be spotted around the top of the berm after daylight hours.

4. Barrier rails and fencing may be required, during working hours, when determined by the Engineer, to be in the interest of public safety.

B. The following requirements apply to any open excavations adjacent to a sidewalk where the difference in elevation between the back of the sidewalk and the excavated area is greater than 6 inches:

1. The open excavation shall be protected, as a minimum, with a six (6) foot high non-climb fence.

**METHOD OF MEASUREMENT**

**624.04.01 MEASUREMENT**

The quantity of TRAFFIC CONTROL AND MAINTENANCE will be measured per lump sum.

**BASIS OF PAYMENT**

**624.05.01 PAYMENT**

***Delete this subsection in its entirety and insert the following:***

The accepted quantity of TRAFFIC CONTROL AND MAINTENANCE will be paid for at the contract unit price of lump sum and shall include all labor, material and equipment necessary to provide measures to protect and maintain traffic 24 hours per day during the life of the Contract, including traffic control plan, temporary pavement, detours, the furnishing of such personnel, flaggers, crossing guards properly trained in traffic control for Suggested Routes to School, traffic control supervisor including the furnishing of daily record of traffic control activities, barricades, signs, arrow boards, portable changeable message signs, temporary pavement markings and striping (paint and tape), barrier rails, non-climb fencing, flashers, bridges, plates, etc. as may be required to insure the safety of the traveling public in accordance with Sections 107, 624 and 625 and all other applicable sections of the USS, USD and these Special Provisions.

**The value of the Traffic Control Supervisor’s site inspections in accordance with Subsection 624.03.74, “Traffic Control Supervisor” will be considered to be** **15 percent of the Traffic Control and Maintenance pay item.** Submittal of the daily record of traffic control activities will be evidence that the Traffic Control Supervisor has made the required inspections. **Failure to submit the required daily record of traffic control activities will result in the proportional amount of this bid item not being paid as work not performed.**

Payment will be made under:

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| **ITEM NO.** | **ITEM DESCRIPTION** | **UOM** |
| 624.0010 | TRAFFIC CONTROL AND MAINTENANCE | LS |

**END OF SECTION 624**