



RIGHT OF WAY



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Reference Documents

[Americans with Disabilities Act \(ADA\)](#)

[Public Right of Way Access Guidelines \(PROWAG\)](#)

[Manual on Uniform Traffic Control Devices \(MUTCD\)](#)

[NCDOT 2024 Roadway Standard Drawings](#)

[City of Raleigh Code](#)

[City of Raleigh Standard Detail Drawings](#)

Introduction

All projects within the City's right of way shall be adequately reviewed for coordination, and ensure the health, safety, and welfare of community members.

In accordance with [Section 11-6001 - Permit and Regulations for Working In, Upon, Over, Under, or Adjacent to the Streets and Sidewalks](#), and [Part 11-Transportation, Chapter 2 Motor Vehicles and Traffic, Article L. – Signing and Traffic Routing in the Event of Street Obstruction](#), the following applies:

- No person shall make any excavation or opening or dig any ditch, trench, tunnel or hole in, along, across or under any street, sidewalk or other public place for the purpose of laying or placing therein any pipe, wires, pole or for any other purposes ([Section 11-6001 \(a\) \(1\)](#)).
- No person shall grade, construct, pave or otherwise improve or repair or undertake the grading, construction, paving, improvement or repair of any street or sidewalk or other public place, including the construction, extension, paving or repair of any driveway which extends over or within the boundaries of any street, sidewalk or street right-of-way ([Section 11-6001 \(a\) \(2\)](#)).
- No person shall engage in any work or activity which shall in any way obstruct or tend to obstruct any street, sidewalk or other public place except those operating according to a valid permit issued pursuant to this Code ([Section 11-6001 \(a\) \(3\)](#)).
- No person shall engage in the erection, construction, repair, demolition, renovation, maintenance or any other work or activity in or upon, over, under or adjacent to or within five (5) feet horizontally of any street, sidewalk or other public property within the City outside of any permanent building ([Section 11-6001 \(a\) \(4\)](#)).

Permits shall be issued for any of the activities described above, to ensure proper compliance with all Local, State and Federal requirements. Any applicant shall provide a certificate of liability insurance and performance bond to the City of Raleigh at the minimum of five thousand dollars. This is in accordance with [Section 11-6001 \(b\) \(1\), and \(2\)](#).

Emergency situation - An "emergency situation" exists when the obstruction results from or is caused by any unanticipated event or happening which endangers the health or safety of persons.

Emergency situations continue for the reasonable length of time necessary for the person, persons, firm or corporation working to remove the obstruction to comply with the requirements of this article in a manner consistent with providing protection for the health, safety, and property of persons using or desiring to use the obstructed street.

No permit shall be identified as an Emergency unless any of the following may occur:

- Immediate threat to life, health, environment, or significant loss of property; or
- Have already caused loss of life, health detriments, property damage, or environmental damage; or
- Have a high probability of escalating to cause immediate danger to life, health, environment, or significant loss of property.

Right of Way Occupancy Permits shall be required for all emergency work. Permits shall be submitted within 24 hours of the start of the emergency work. Failure to submit for a permit within 24 hours will be subject to a citation or failed inspection fee.

GENERAL PROVISIONS

Prerequisites for Working within the Right of Way

Liability insurance and performance bond. ([Sec.11-6001\(b\)](#))

- As a further condition of the issuance of such certificate, the person desiring to work in the public streets as provided in this section shall file with the Director of Transportation or his duly authorized agent, a bond in the amount of not less than five thousand dollars (\$5,000.00) to work within the Right of Way.

Protecting the Public From Injury ([Sec. 11-6001\(f\)](#))

- Whenever any person shall do or undertake to do any of the things set forth in subsection (a) for which a permit is required, it shall be the duty of such person to use due and reasonable care to protect from harm and damage all persons or property who or which may be using any street, sidewalk or other public place where such activity is in progress, and to that end such person shall erect and maintain suitable barricades, signs, lights, flares, and other appropriate means of protection and other appropriate warning devices at, near, or around the place or places where such work or activity is in progress.

Indemnity Bond ([Sec. 11-6002](#))

- As a condition of the issuance of a permit for construction of and improvements to sidewalks, curbs, gutters and portions of driveways and drains within public rights-of-way (in addition to the other requirements of this Code, when such work is to be done either by a person employed by the owner of the property abutting the improvement, or by the City under contract, upon failure of such owner to do the required work, after notice), the person making the improvements shall be required to enter into a continuing indemnity bond with sufficient surety, upon condition that such work will be done in conformity with the standards established by the City and that the City will be indemnified for any damages it might sustain as a result of the breach of such condition.

Encroachments ([Sec. 12-1001](#))

- Any client that wishes to install permanent structures in the right-of-way and maintain them, must apply for an Encroachment as required by City Code prior to acquiring any permits for installation.

Permits ([Sec. 11-6001\(a\)](#))

- All applicable City of Raleigh permits (Land Disturbance, etc.) and NCDOT permits/encroachments (if applicable) shall be in place prior to starting work and a copy of these approved permits and a plan must be at the job site at all times.
- The issuance of a permit does not preclude the permittee from complying with any and all statutes, rules, regulations, or ordinances which may be imposed by other government agencies (Local, State, and Federal) which have jurisdiction.
- All construction shall be in accordance with City of Raleigh and/or NCDOT standards and procedures. In case a conflict occurs, the more stringent requirement shall apply.

Preconstruction Operations

- A pre-construction meeting shall be required prior to the start of all work. The permittee, utility owner, contractor(s), stakeholders, etc. shall be in attendance. At this time or upon request, permittee and/or owner shall present necessary construction plans and schedule, including staging, street/lane/sidewalk obstructions, project duration, work hours, paving restoration, construction inspection, public notification, etc.
- All pre-construction meetings are to be scheduled in Energov a minimum of 24 hours in advance.
- The Contractor shall take a sufficient number of pre-construction photos and videos. All damaged items along property frontages (asphalt, curb, driveway, driveway aprons, sidewalk panels, ADA ramps, etc.) shall be replaced, and in acceptable condition prior to closeout of all applicable right of way occupancy permits. It shall be the contractor's responsibility to prove that they did not cause any damage within the scope of their permitted work area.

Notification Requirements

- The permittee shall inform all residents, property owners, businesses, HOA Board, and emergency services with a notification letter at least 2 (Two) weeks prior to the commencement of construction within the area of the proposed project.
- Information within the notification shall include, but not limited to, the anticipated timeframe of the construction, any proposed traffic disruptions, the responsible party's contact information, and the subcontractor's contact information.
- Additional means of communication may include door hangers, neighborhood meetings, and face to face discussions, etc.
- Contractors shall prominently display the name of their company and a phone number on their vehicles while working within the public right of way.

Traffic Control

- All traffic control signage and practices shall adhere to the Manual on Uniform Traffic Control Devices (MUTCD), and the latest edition of the NCDOT, "Standard Specification for Roadway Structures" NCDOT, "Roadway Standard Drawing Manual" and the NCDOT supplement to the MUTCD.
- The permittee shall provide specific measurements for pedestrian controls, which will comply with all Local, State, and Federal regulations including but not limited to the American Disability Act, the Manual on Uniform Traffic Control Devices Part 6, Temporary Traffic Control.

Traffic Signals

- Prior to construction or work around traffic signals a pre-construction walk through shall be coordinated with the Department of Transportation with City of Raleigh Signals (919-996-6020), so that locates are completed, and the contractor will be made aware of the signal utilities underground.

Trees in the City of Raleigh's Right of Way

- Tree Impact Permit- any City Tree disturbing activity or any land disturbing activity within fifteen (15) feet of a City tree and that is on City property shall first obtain a written permit pursuant to procedures and standards set forth in the City Tree Manual, including the payment of any such fees required therein. Persons failing to obtain the appropriate permits before beginning tree work are subject to civil penalties, fees, and/or replacement costs.

Raleigh Water Critical Infrastructure Notification

- NOTIFICATION TO [WDSERVICEREQUESTDL@raleighnc.gov](mailto:WDSERVICEREQUESTDL@RALEIGHNC.GOV) SHALL be sent 72 hours before spotting, excavating, blasting, and boring near critical Water and Sewer Mains. This is for 12" or larger.
- The expectation is that contractors follow the requirement for working adjacent to our critical infrastructure. The North Carolina Underground Utility Safety and Damage Prevention Act indicates requirements for working within the tolerance zone.
- Raleigh Water requires that all contractor and utility companies provide a second email to give a 72-hour advance notification when considering any type of blasting excavation within the regulated distance of our critical facilities.

Transit Notification

- When a transit stop will be impacted, the permittee shall coordinate with the City's Transit Division to receive approval for temporary closure, temporary relocation, or maintenance of pedestrian access of the transit stop.

Lane Obstructions

Definition of a lane obstruction: A lane obstruction involves the occupation of a lane or lanes during projects but not closing the lane or lanes off completely. This can be in the form of a flagging operation, lane merges, or other traffic shifts to allow traffic to still flow and not close the street. This does include shoulder work in which equipment may need to move and operate.

Lane Closures / Work

- Any work in which obstructs traffic on a street, lane or sidewalk must be in compliance with the [Americans with Disabilities Act, Part 11-Transportation, Chapter 2 Motor Vehicles and Traffic, Article L. – Signing and Traffic Routing in the Event of Street Obstruction, Manual on Uniform Traffic Control Devices \(MUTCD\)](#), and [Public Right of Way Accessibility Guidelines \(PROWAG\)](#).
- **A Right of Way Occupancy Permit shall be required for all activity performed in the right of way.**
- On roads with curb and gutter, a lane closure is required when work is being performed within 5' of the travel lane.
- On roads without curb and gutter, a lane closure is required when work is being performed within 15' of the travel lane.
- A minimum access of 20' of pavement is required at all times for traffic. This does not include the curb and gutter areas.
- If any operator/contractor parks in a residential area forcing the homeowner/resident to park on the other side of the road, narrowing to 20' or less, the operator/contractor is liable to ensure a lane closure permit is obtained. All lane closures must abide by Local, State, and Federal Laws.
- The minimum width required for a single travel lane is 10'. This does not include the curb and gutter areas.
- **Sight visibility must be maintained at all times pertaining to proper lane closures.**

Lane Closure Times

For roads with a marked center line:

Day Work:

- NO LANE CLOSURES PERMITTED between the hours of 6:00 a.m. to 9:00 a.m. and 4:00 p.m. to 7:00 p.m. Monday through Friday
- NOTE: Further restriction may apply due to traffic conditions, weather, or holiday schedule.

Night Work:

- NO LANE CLOSURES PERMITTED prior to 7:00 p.m. and traffic must resume before 6:00 a.m. Monday through Friday.
- NOTE: Must be approved and permitted five business days prior to requested date.
- NOTE: The City of Raleigh Noise Ordinance is applicable: [CHAPTER 5. NOISE ORDINANCE](#).

For roads without a marked center line:

Day Work:

- Standard hours for construction related activities are 7:00 a.m. to 7:00 p.m. Monday through Sunday.

Night Work:

- NOTE: Must be permitted five business days prior to requested date.
- NOTE: The City of Raleigh Noise Ordinance is applicable: [CHAPTER 5. NOISE ORDINANCE](#).

Full Street Closure

- Full street closure is needed when the work cannot be completed without impacting the entire road width. Projects should be designed to minimize the need for full street closure.
- During a full street closure, traffic is detoured allowing workers full access to roadway facilities and ensuring that motorists and City services are rerouted properly to their destinations around the work area.
- **If detours utilize NCDOT roads, NCDOT shall be notified, and their approval is needed.**
- **The Required Documentation must be submitted a minimum of two weeks prior to proposed start of work to the online permit portal.**
 - Traffic Control and Vehicular Detour Plan, and Pedestrian Plan in accordance with standards of the [Americans with Disabilities Act](#); [Public Right-of-Way Accessibility Guidelines](#); and [Manual on Uniform Traffic Control Devices](#);
 - The City Transit Division shall determine and publicize a detour plan for impacted transit routes. To assist with transit detour plans, permittee should clearly identify lane widths and turning radius where altered, and the times and dates of all closures and obstructions.
 - Memorandum outlining the proposed work and logistics.

Sidewalk Obstructions

Sidewalk Access

- All public sidewalks must be accessible to all pedestrians, including people with mobility concerns. Existing or auxiliary pedestrian routes during construction shall be required to be compliant with the Public Rights of Way Accessibility Guidelines (PROWAG), the ADA Standards for Accessible Design and the Manual on Uniform Traffic Control Devices (MUTCD).

Obstruction of Sidewalks

- If a sidewalk is obstructed, a Right of Way Occupancy Permit shall be required prior to the start of work.
- Any work performed on a sidewalk shall be in compliance with the [Americans with Disabilities Act, Part 11-Transportation, Chapter 2 Motor Vehicles and Traffic, Article L. – Signing and Traffic Routing in the Event of Street Obstruction, Manual on Uniform Traffic Control Devices \(MUTCD\)](#), and [Public Right of Way Accessibility Guidelines \(PROWAG\)](#).
- Any time a sidewalk is obstructed and impedes pedestrians, a safe alternative route shall be provided.
- If overhead work is to be performed, the sidewalk shall be closed, and a safe alternate pedestrian route provided.
- If sidewalk is closed the applicant must provide a solution to provide walking access to businesses, transit stops and other points of interest.
- If establishing or maintaining an alternate pedestrian route is not feasible during the project, an alternate means of providing for pedestrians may be used, such as adding free bus service around the project or assigning someone the responsibility to assist pedestrians with disabilities through the project limits (MUTCD, 11th Editions, Chapter 6C.02, line 04).
- If an existing pedestrian route is impacted by a short duration or a short-term stationary work zone that is attended with project personnel, establishing an alternate pedestrian route may not be necessary if the work can be stopped, and pedestrians can navigate the work zone safely. Pedestrians may be delayed for a short period of time for project personnel to move equipment and material to facilitate passage. Work zone personnel may also aid pedestrians as necessary (MUTCD, 11th Edition, Chapter 6C.02, line 05).

Parking and Driving on Sidewalks

- No vehicles are allowed to drive, stop, or park on any sidewalks.
- Per City Code [Sec. 11-2121](#). The driver of a motorized vehicle shall not drive within any sidewalk except at a permanent or temporary driveway.
- Persons parking on a sidewalk can receive a civil penalty (ticket) per City Code [Sec. 11-2025\(e\)\(1\)](#).

Holiday Schedule and Special Event Work

- No work is permitted during the [City of Raleigh Holiday Schedule](#). If the Holiday falls on a Monday or Friday, the restriction will include the encompassing weekend, [Holiday Schedule and Special Work Event](#)
- No street, lane, or sidewalk obstruction is allowed in the vicinity of any scheduled event. This includes detour routes for the event. It is the contractor's responsibility to verify events in the vicinity. [Event Calendar](#)
- Any dumpster, equipment, vehicles or stored materials must be moved out of any parking area during any event. See schedule of event: [Festivals, Road Races, and Special Events](#)

During Construction Operations

- The permittee shall have a superintendent available on a 24-hour basis, who is authorized to carry out orders from the City's representative, while work is in progress. The permittee shall provide the name of the superintendent prior to the start of work.
- Contractors shall prominently display the name of their company and a phone number on their vehicles while working within the public right of way.
- A copy of the permit shall be on site and available upon request. This can be digital or hard (paper) copy. Inability to produce a copy of the permit will result in citation or additional inspection fees.
- Any field conflict must first be addressed with a City of Raleigh Inspector by the Permit Holder's Field Supervisor. If no resolution is reached, the Inspector shall contact the Inspections Coordinator, who shall confer with all appropriate parties to reach a solution.
- The City reserves the right to require the presence of a police officer for the following but not limited to: construction activity, construction operations within the public right of way, for security and safety purposes, vehicular traffic control, pedestrian traffic control, noise control, dust control, and vibration control. The permittee shall be required to comply with the City of Raleigh Police Department.
- Any trash or debris tracked onto a public road, sidewalk, or any portion of the right of way shall be removed and swept immediately.
- Portable toilets, trash receptacles, construction materials and debris, pre-made building packages, gravel, sod, dirt, mulch, etc., SHALL NOT be placed or stockpiled on or within the public right of way including sidewalks, -pedestrian path or bike lanes.
- Concrete wash-out areas shall not be located within the public right of way and shall not drain into the Public Street and/or storm drainage system.
- Contractors are NOT allowed to operate any City of Raleigh water valves.
- Contractors shall contact Raleigh Water to have existing valves on or near waterlines serving the proposed project located, and checked for accessibility and operation, no less than 48 hours prior to construction (see contacts list).
- No drainpipes shall be installed within the curb, outlet, catch basin, or any other portion of the storm drain system without proper permits.
- NCDOT shall be contacted to perform inspections on their roadways and infrastructure the same reports provided to NCDOT regarding pavement structure shall be provided to the City of Raleigh's Engineering Inspections Group prior to closeout of all applicable Right of Way Permits.
- All construction traffic shall adhere to the City of Raleigh Truck Route Ordinance (section 11-2132). Any questions regarding this ordinance shall be forwarded to Raleigh's Department of Transportation.
- Contractors shall provide traffic and/or pedestrian access during construction, where applicable. Loading and unloading areas shall be properly identified, and not obstruct traffic and/or pedestrians. This shall be in accordance with the MUTCD, ADA and PROWAG standards.
- All areas shall be defined by a machined saw cut. Concrete shall be removed to the nearest joint. Partial panels are not allowed to be removed within sidewalks. Replacement of entire sidewalk panels is required. The entire curb section shall be removed and replaced existing joint to existing joint.

- If any curb, gutter, or sidewalk is disturbed or damaged in the area which would normally encompass a curb ramp, a curb ramp shall be installed according to the slopes and dimensions of the latest ADA, PROWAG, NCDOT and City standards.
- All street and sidewalk construction shall be continuously maintained in a safe manner in accordance with MUTCD, ADA and PROWAG standards. Permit holders shall utilize flashing barricades and sidewalk closed signs where applicable.
- All disturbed driveways shall be replaced with full panels. Replacement of driveways shall be in accordance with current standards, and not create safety issues with adjacent sidewalks. Typical driveways shall have an expansion joint at the curb tie-ins, and the end of the apron.
- City transit service will not be disrupted. Any detours, relocation/closing of transit stops, etc. must have received prior approval from the City's Transit Division.
- Any deviation from any of these requirements shall result in immediate stoppage of activities until all policies, procedures, and standards are met, and fines may be administered.
- All work shall be completed with minimum delay.

NC811

- As required by state law, all existing underground utilities shall be located no less than 3 days prior and no more than 12 days prior to the beginning of any excavation or underground construction. Vacuum Excavation is the preferred method within the Public Right of Way. [NC811](#).

Private Property

- No work or storage of equipment shall occur on private properties unless permission has been granted in writing by the property owner.

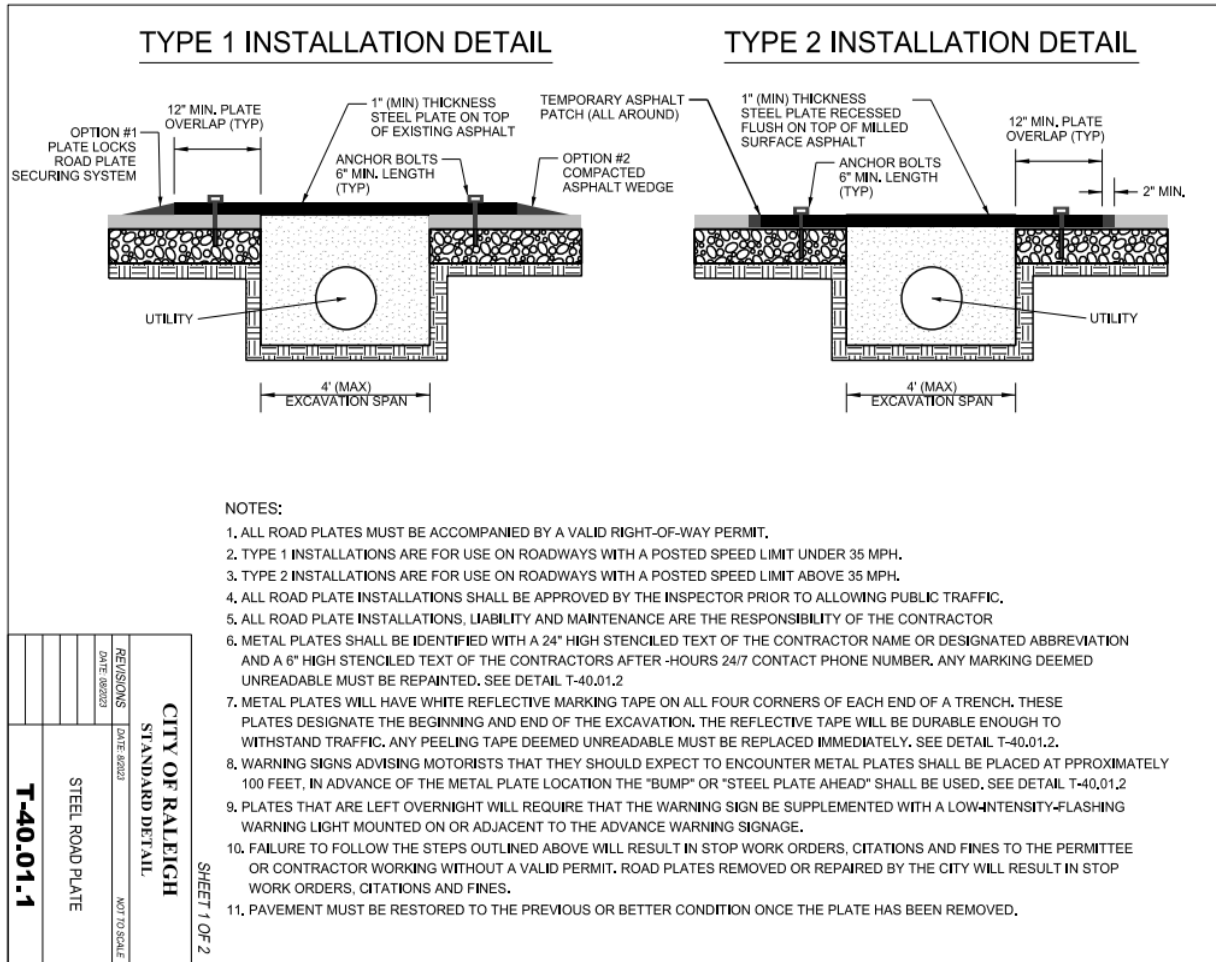
Illicit Discharge

—An illicit discharge is an unlawful act of disposing, dumping, spilling, emitting, or other discharge of any substance other than storm water into the storm water drainage system. The storm water drainage system includes streets, ditches, catch basins, yard inlets, lakes, and streams.

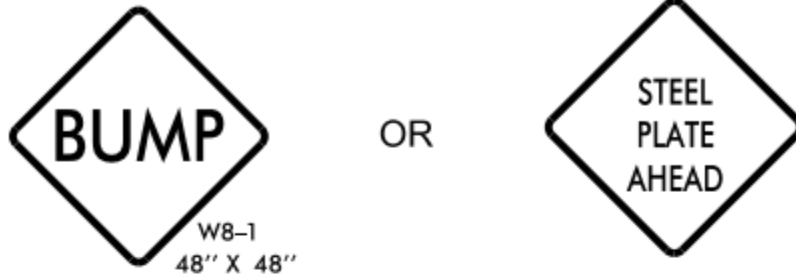
- All storm water inlets are to be protected during construction by gutter buddies.
- A Vac Truck shall be onsite for all directional boring operations. No drilling mud or other substance shall enter the storm drainage system.
- The city may issue Notices of Violation to offenders and fines may be issued depending on the severity of the violation. The City can issue fines, or civil penalties, up to \$5,000 per day and these fines can continue for each day the illicit discharge remains active.
- Repeat offenders, the penalty will double the amount that was previously fined up to \$25,000 each day.
- View the Illicit Discharge Ordinance in the [Municode](#)
- [Chapter 5. - Offenses Against the Environment](#).

STEEL ROAD PLATE

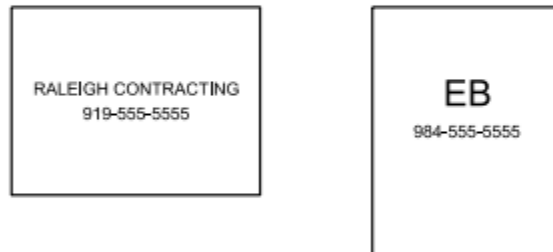
- All road plates must be accompanied by a valid right of way occupancy permit.
- Type 1 installations are for use on roadways with a posted speed limit under 35 MPH. See detail T-40.01.2.
- Type 2 installations are for use on roadways with a posted speed limit above 35 MPH. See detail T-40.01.2.
- **All** road plate installations shall be approved by the inspector prior to allowing public traffic.
- **All** road plate installations, liability, and maintenance are the responsibility of the contractor.
- Metal plates shall be identified with a 24" high stenciled text of the contractor's name or designated abbreviation and a 6" high stenciled text of the contractors after hours 24/7 contact phone number. Any marking deemed unreadable must be repainted, see detail T-40.01.2.
- Metal plates will have white reflective marking tape on all four corners of each end of a plate. These plates designate the beginning and end of the excavation. The reflective tape will be durable enough to withstand traffic. Any peeling tape deemed unreadable must be replaced immediately. See detail T-40.01.2.
- Warning signs advising motorists that they should expect to encounter metal plates shall be placed at approximately 100', in advance of the metal plate location the "BUMP" or "STEEL PLATE AHEAD" signs shall be used. See detail T-40.01.2.
- Plates that are left overnight will require that the warning sign be supplemented with a low intensity flashing warning light mounted on or adjacent to the advance warning signage.
- Failure to follow the steps outlined above will result in stop work orders, citations, and fines to the permittee or contractor working without a valid permit or outside their permit parameters. Road plates removed or repaired by the city will result in stop work orders, citations, and fines.
- Pavement must be restored to the previous or better condition once the plate has been removed.



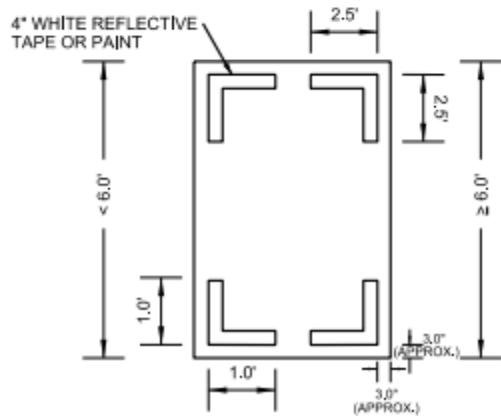
ADVANCED WARNING SIGNAGE



METAL PLATE MARKING EXAMPLES



METAL PLATE REFLECTIVE TAPE DETAILS



SHEET 2 OF 2

CITY OF RALEIGH STANDARD DETAIL		
REVISIONS	DATE: 8/2023	NOT TO SCALE
	STEEL ROAD PLATE	
T-40.01.2		

Repairs and Restoration

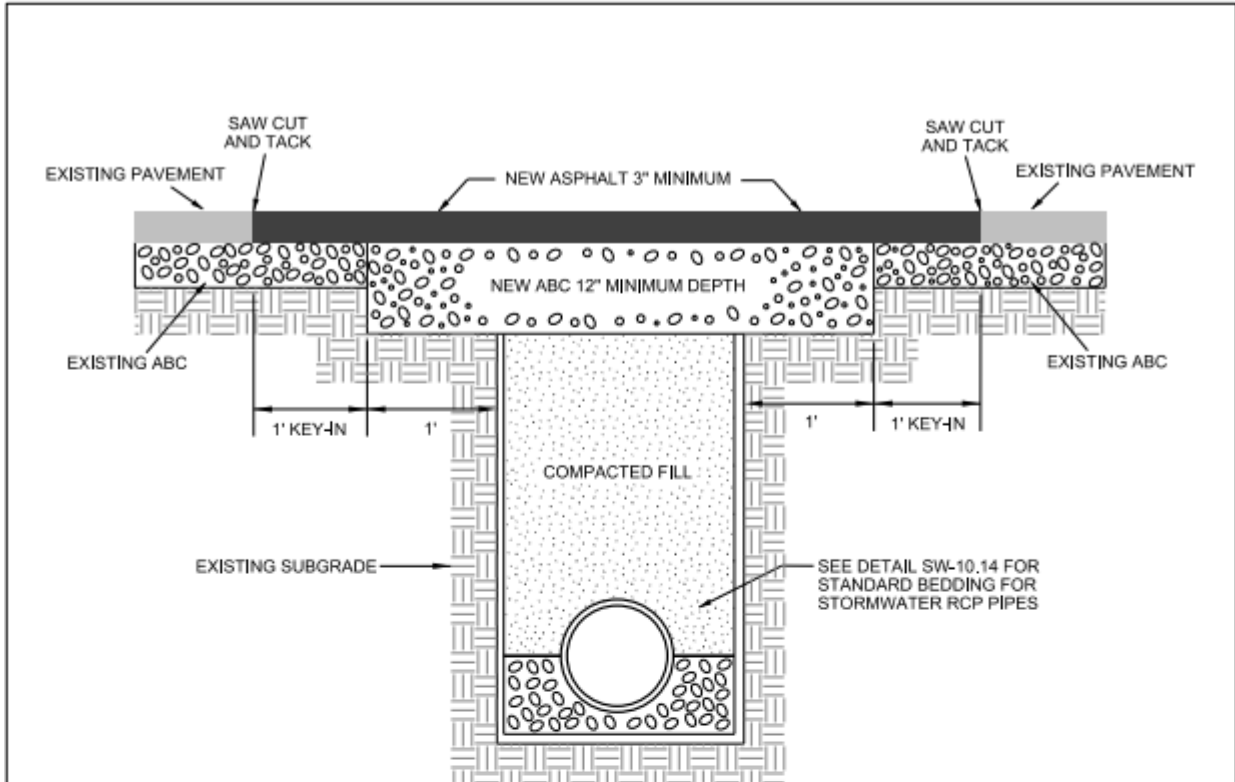
- All areas shall be repaired and restored to or exceed City standards.
- Repair and restoration requirements are the responsibility of the permit holder.
- Temporary cold patch shall be used in roadway or sidewalk until the permanent patch is made. Stone of any kind is not allowed.
- Maintenance of temporary patch shall be maintained in continuance until the permanent patch is made.
- Upon notification, maintenance shall be completed within 24 hours.
- Permanent patches shall be made within 72 hours of the initial utility cut.
- For sidewalk, compacted cold patch, or hot mix shall be used until the permanent repair is made.
- Repairs and restoration will be inspected by an inspector, and the inspector will determine if the restorations are made to standards.

Asphalt Repairs

- Asphalt repairs shall be in accordance with City of Raleigh Standard Detail T-10.05.1, for City streets. See detail on following page.
- Contractors are responsible for the maintenance of warranty of any asphalt repairs they perform for a period of no less than 24 months.
- Longitudinal joints for asphalt patches shall not be placed in the wheel path.
- All asphalt must be a hot plant mix with cut edges sealed. A valid receipt/ticket must be provided if requested by an inspector.
- The same thickness/type of asphalt which exists shall be installed, but in no case, shall the asphalt be less than three inches thick.
- The asphalt shall be defined by a straight edge, parallel, or perpendicular machine saw cut. The entire thickness/edge of the existing asphalt cut shall be tacked.
- Asphalt shall be installed and compacted thoroughly to achieve a smooth level patch. Any settling that occurs will be the contractor's responsibility to repair in a timely manner. Contractors are responsible for the maintenance of warranty of any asphalt patch they perform for a period of no less than 24 months.
- Asphalt mixtures shall not be placed during rainy weather, when the subgrade or base course is frozen or when the moisture on the surface to be paved would prevent a proper bond.
- Asphalt mixtures shall not be placed when the air and/or surface temperature, in the shade away from artificial heat at the paving location, is less than specified in the table on next page:

Placement Temperature for Asphalt		
Asphalt Concrete Mix Type	Minimum Air Temperature*	Minimum Surface Temperature
B25, 0B, C (Base)	35°F	35°F
I19.0B, C, D (Binder)	35°F	35°F
SF9.5A, S9.5B (Surface)	40°F	40°F
S9.5C, S12.5C	45°F	45°F
S9.5D, S12.5D	50°F	50°F

*Air Temperature to be based on National Weather Service (NWS) measured temperature for project area

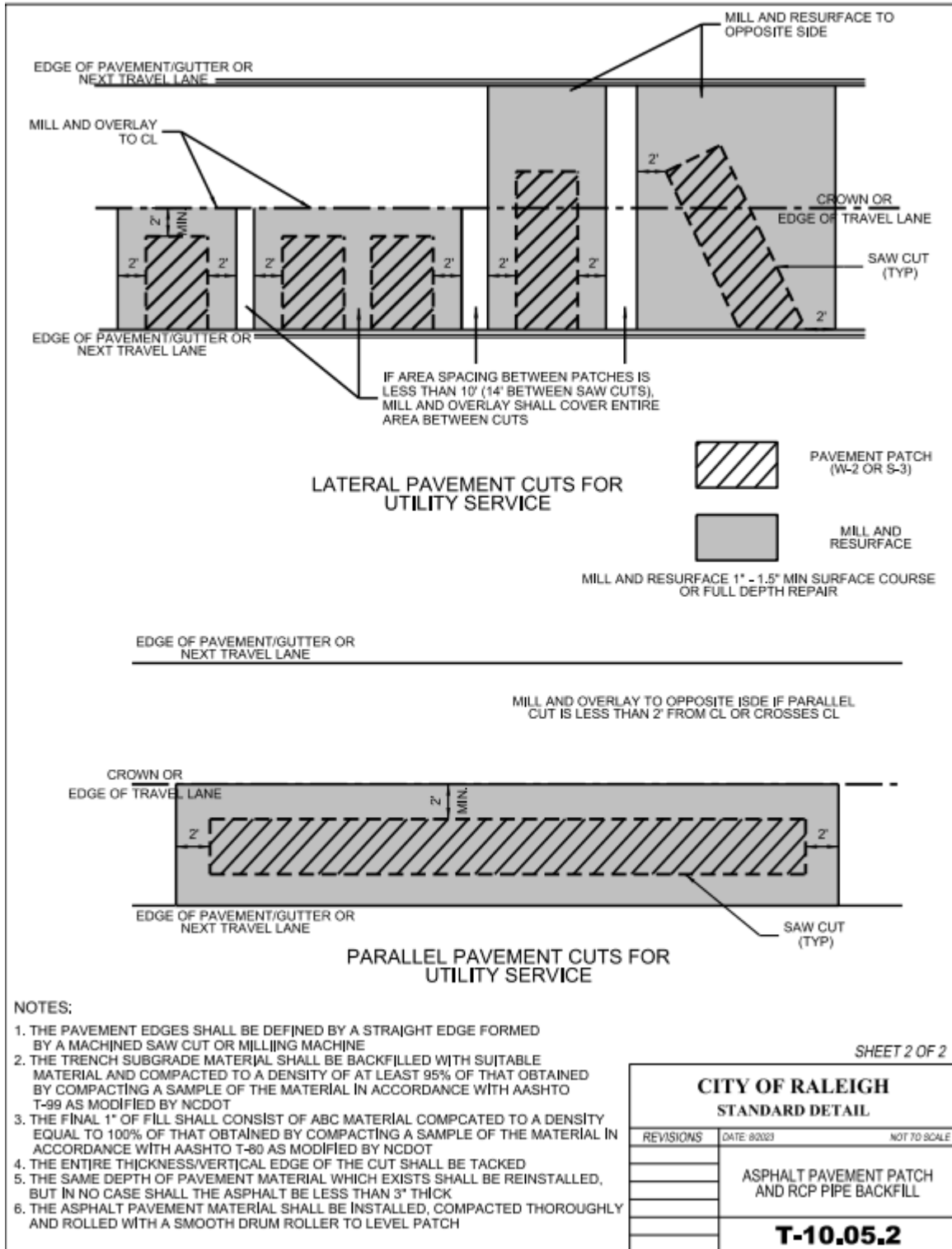


NOTES:

1. THE PAVEMENT EDGE SHALL BE DEFINED BY A STRAIGHT EDGE FORMED BY A MACHINED SAW CUT.
2. THE TRENCH SUBGRADE MATERIAL SHALL BE BACKFILLED WITH SUITABLE MATERIAL AND COMPACTED TO A DENSITY OF AT LEAST 95% OF THAT OBTAINED BY COMPACTING A SAMPLE OF THE MATERIAL IN ACCORDANCE WITH AASHTO T-99 AS MODIFIED BY NCDOT.
3. THE FINAL 1' OF FILL SHALL CONSIST OF ABC MATERIAL COMPACTED TO A DENSITY EQUAL TO 100% OF THAT OBTAINED BY COMPACTING A SAMPLE OF THE MATERIAL IN ACCORDANCE WITH AASHTO T-80 AS MODIFIED BY NCDOT. BITUMINOUS BASE OR BINDER MAY BE SUBSTITUTED IF APPROVED BY TRANSPORTATION DIRECTOR OR DESIGNEE.
4. THE ENTIRE THICKNESS/VERTICAL EDGE OF THE CUT SHALL BE TACKED.
5. THE SAME DEPTH OF PAVEMENT MATERIAL WHICH EXISTS SHALL BE REINSTALLED, BUT IN NO CASE SHALL THE ASPHALT BE LESS THAN 3" THICK.
6. THE ASPHALT PAVEMENT MATERIAL SHALL BE INSTALLED AND COMPACTED THOROUGHLY AND ROLLED WITH A SMOOTH DRUM ROLLER TO ACHIEVE A SMOOTH, LEVEL PATCH.

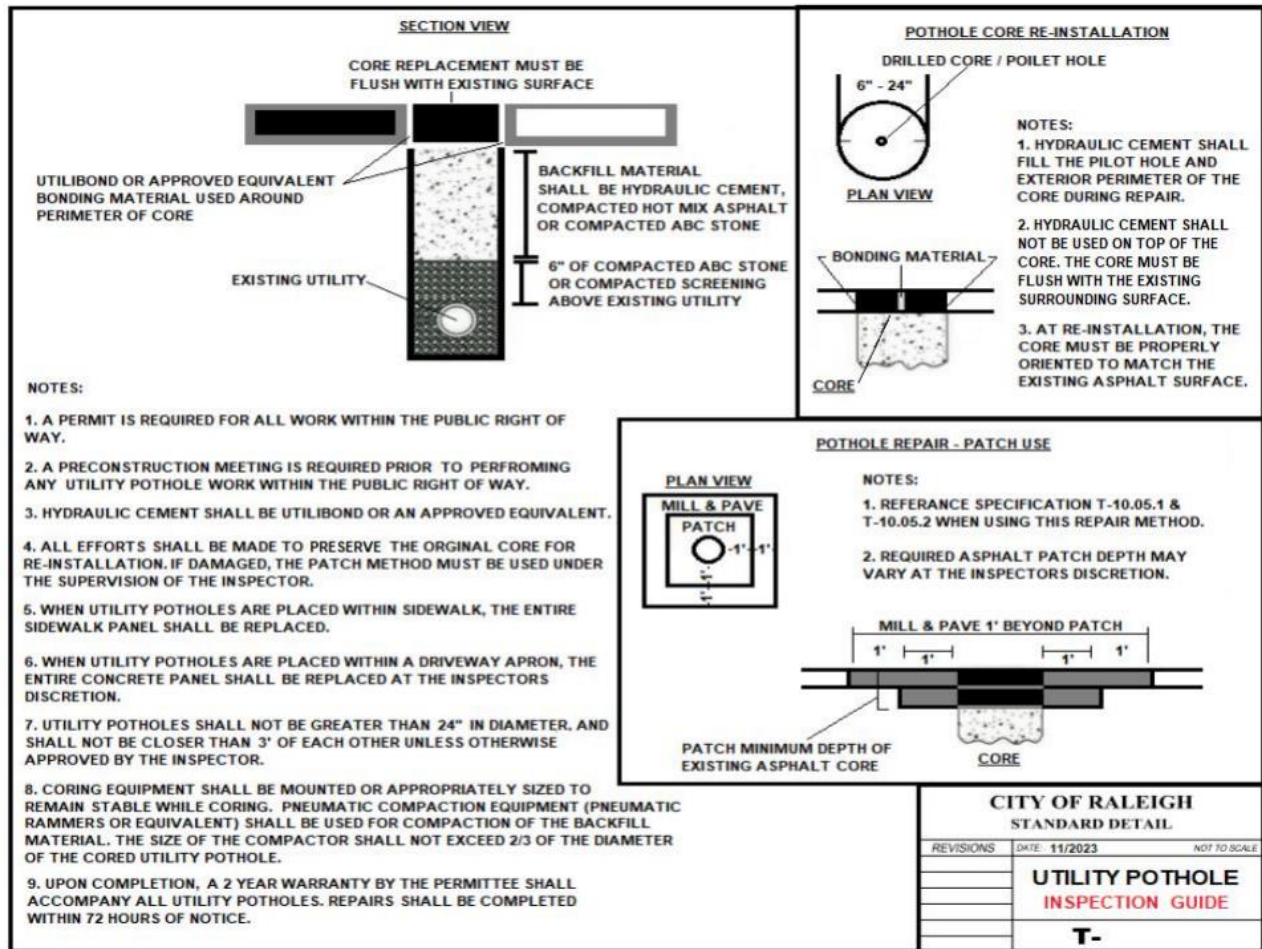
SHEET 1 OF 2

CITY OF RALEIGH STANDARD DETAIL		
REVISIONS	DATE: 02/2020	NOT TO SCALE
DATE: 08/2023		
	ASPHALT PAVEMENT PATCH AND RCP PIPE BACKFILL	
	T-10.05.1	



Core Holes

- A permit is required for all work within the public right of way.
- A preconstruction meeting is required prior to performing any utility pothole work within the public right of way.
- Hydraulic cement shall be utilibond or an approved equivalent. Hydraulic cement shall fill the pilot hole and exterior perimeter of the core during repair. Hydraulic cement shall not be used as the final surface layer.
- At re-installation, the core must be properly oriented to match the existing asphalt surface.
- All efforts shall be made to preserve the original core for re-installation. If damaged, the patch method (T-10.05.1 & T-10.05.2) must be used under the supervision of the inspector.
- When utility potholes are placed within sidewalks, the entire sidewalk panel shall be replaced.
- When utility potholes are placed within a driveway apron, the entire concrete panel shall be replaced at the inspector's discretion.
- Utility potholes shall not be greater than 24" in diameter and shall not be closer than 3' of each other unless otherwise approved by the inspector.
- Coring equipment shall be mounted or appropriately sized to remain stable while coring. Pneumatic compaction equipment (pneumatic rammers or equivalent) shall be used for compaction of the backfill material. The size of the compactor shall not exceed 2/3 of the diameter of the cored utility pothole.
- Upon completion, a 24-month warranty by the permittee shall accompany all utility potholes. Repairs shall be completed within



Sidewalk Repairs and Concrete Repairs

- Once the initial construction/installation is complete, the permit holder will have a maximum of 72 hours to restore the sidewalk or concrete. Compacted cold patch is required until permanent patch can be made.
- All sidewalk repairs will be required to have a pre-pour inspection before concrete can be poured. The inspection shall be requested in Energov.
- All areas shall be defined by a machined saw cut.
- It shall be the responsibility of the contractor to replace the whole sidewalk panel(s) or concrete panel(s) from joint to joint if it has been broken, cored, or damaged from the work performed.
- If any sidewalk is disturbed in the area in which encompasses a curb ramp, a new curb ramp shall be installed in accordance to ADA, PROWAG, NCDOT and City standards. See City of Raleigh Standard Construction Details T-20.01.1 to T-20.01.08 for curb ramp details.
- All concrete pours shall be 3000 PSI or greater. Plant Mix. A truck delivery ticket shall be provided to the inspector upon request.

- The trench sub-grade material shall be backfilled in 6-inch lifts and compacted to a density equal to at least 95%.
- Excavatable flowable fill can be used as an alternate for ABC stone if desired by the applicant.
- Concrete placement can begin when the air temperature, in the shade away from artificial heat reached 35 degrees Fahrenheit on a rising thermometer. The temperature of the heated concrete shall be a minimum of 55 degrees Fahrenheit, but not more than 80 degrees Fahrenheit. A batch ticket shall be provided to the project inspector noting the concrete temperature at placement.
- Concrete can be placed without any protection when the air temperature, in the shade away from any artificial heat, is above 35 degrees Fahrenheit for a 72-hour period after placement.
- All concrete shall be protected by heated enclosure or insulated blankets if the air temperature falls below 35 degrees Fahrenheit within the 72-hour (3Day) curing period. The heated enclosure or insulated blankets shall be left in place for a minimum of 72 hours (3 Days) from the time of placement. Heated enclosure or insulated blankets shall be on site prior to the pre-pour inspection and shall not have any rips or tears in the water-proofing material.
- Contractors are responsible for the maintenance of warranty of any concrete repair they perform for a period of no less than 24 months.

Curb and Gutter Repairs

- Once the initial construction/installation is complete, the permit holder will have a maximum of 72 hours to restore the curb and gutter and or sidewalk.
- All areas shall be defined by a machined saw cut.
- If any area of curb and gutter removed is less than six (6) feet from the nearest construction joint, the curb and gutter shall be removed to the next joint.
- Curb and gutter shall be reinstalled at the existing elevations and grades.
- If any curb and gutter is disturbed in the area in which encompasses a curb ramp, a new curb ramp shall be installed in accordance with City of Raleigh, PROWAG and ADA standards. See City of Raleigh Standard Construction Details T-20.01.1 to T-20.01.08 for curb ramp details.
- All concrete pours shall be 3000 PSI or greater. Plant Mix. A truck delivery ticket shall be provided to the inspector upon request.

Driveway Repairs

- Once the initial construction/installation is complete, the permit holder will have a maximum of 72 hours to repair the driveway.
- All areas shall be defined by a machined saw cut.
- All concrete pours shall be 3000 PSI or greater. Plant Mix. A truck delivery ticket shall be provided to the inspector upon request.

Grass and Lawn Restoration

- All restoration to lawns will be made the day of ground disturbance.
- Clean topsoil, seed, and straw shall be utilized when restoring any soft scape in the right of way.

- All rocks will be raked out and removed.
- All topsoil and restoration shall be level with the surrounding area. All ruts will be raked out.
- An inspector may require additional restoration beyond what is required above when applicable.
- Any damages to grass, plants, flowers, or bushes shall be replaced with the same type of grass, plant, flower, and/or bush.
- All grass and lawn restorations will be determined as satisfactory by an inspector.
- A warranty period of 24 months is required for all landscape restorations.

Trees in the City of Raleigh's Right of Way

Remediation to damaged trees

- Any tree damage(s) shall be repaired and or replaced to the satisfaction of the Urban Forester at no expense to the city. Trees shall be remediated in accordance with the City Tree Manual.

Signal Repair

- After work has been completed, a post-construction walk through shall be required to confirm that no damages are present.
- Where any signal failures, malfunctions or damages occur as a result of work, an emergency response shall be accomplished within four (4) hours of notification with the repairs completed within eight (8) hours of notification.
- Any signal loop outages shall be replaced within five (5) workdays.
- All repairs shall be accomplished by a NCDOT approved contractor, which is a licensed electrical contractor familiar with traffic signal construction.

Storm Drain Repairs (Bore Throughs)

- Any damages that occur to storm drains are the responsibility of the permit holder or company/individual that damaged the storm drain.
- All repairs to Storm drains will need to be coordinated with an Inspections Coordinator without delay.

Monuments

- Right of Way monuments disturbed during construction shall be referenced by a Registered Land Surveyor and reset after construction.

Transit Stops

- Signs and amenities at transit stops disturbed during construction shall be replaced to preconstruction conditions and location, unless otherwise agreed upon by the City's Transit Division.

Post Construction Operations

Site Final Inspection

- Permit holder shall request a site final inspection prior to permit expiration date or on completion of work. This includes restoration.
- If a site final is not requested, an inspection will be conducted once the permit is expired.
- If a site final inspection does not meet standards or expectations a re-inspection fees can be assessed. The permit holder will be provided a punch list identifying items that need to be addressed to meet standards and expectations.
- If the items identified in the punch list are not addressed within sufficient time additional re-inspection fees will be assessed.
- Once the inspection meets standards and expectations the permit will be closed out. Permit will not be closed until all fees are paid.
- Warranty period of 24 months for all work shall begin on the date the permit is closed out.

Notice of Violation/Citations/Stop Work Order

Penalty for violation or working without a permit.

- Any person who performs work without a required permit or is found in violation will receive citation(s). Depending on the severity of the violation stop work orders can be issued.
- Work performed without a scheduled inspection will receive a failed/re-inspection fee.
- Any and all fines/fees must be paid prior to any future inspections or permit closeouts.

SPECIAL PROVISIONS

Dumpsters and PODS

- Any Dumpster or Portable Storage Device (POD) is required to have a permit to be in the right of way.
- [Right of Way Services](#) can require the removal of the dumpster or portable storage device if it has been illegally placed in the right of way without a permit or is deemed a safety hazard.
- The dumpster/portable storage device may not block the traffic lane or bike lane. There must be sufficient space for emergency vehicles to pass.
- The dumpster/portable storage device must be placed to meet the specific dimensional parking standards as noted in the Parking Section and are subject to City Code [Part 11 Transportation Article J Parking and Standing](#), including but not limited to:
 - Sec. 11-2171. - PARKING PROHIBITED IN CERTAIN PLACES
 - Sec. 11-2172. - NO PARKING ZONES
 - Sec. 11-2173. - NO STOPPING OR STANDING ZONES
 - Sec. 11-2176. - TRUCK, TRAILER, BUS PARKING
 - Sec. 11-2177. - STANDING FOR LOADING ONLY
 - Sec. 11-2178. - BUS ZONES
 - Sec. 11-2179. - STOPPING, STANDING OR PARKING CLOSE TO CURB
 - Sec. 11-2181. - TEMPORARY PARKING RESTRICTIONS BY CHIEF OF POLICE
 - Sec. 11-2187. - NO PARKING TOW AWAY ZONE
 - Sec. 11-2190. - ELECTRIC VEHICLE PARKING
 - Sec. 11-2191. - ADA ACCESSIBLE PARKING
- Warning devices like traffic cones, reflectors or barricades with flashing lights are required at each end of the dumpster/portable storage device along the traffic side to alert motorists and to increase visibility at night. The dumpster/portable storage device must also have reflective strips on the sides. **Warning devices are not required if the dumpster is in a metered parking space.**
- Boards must be placed under the dumpster/portable storage device to protect the road surface. Any damage to the road surface will be the responsibility of the applicant to have repaired at no cost to the City of Raleigh.
- The permit applicant is responsible for all debris removal in the area surrounding the dumpster or portable storage device.
- Dumpster/portable storage device placed in a metered parking space is required to pay the meter rate per each day the dumpster/portable storage device remains in the space.

Port-a-John

- A port-a-john is not allowed to be in any portion of the city's right of way.
- Right of Way Services will require the removal of a port-a-john if it has been placed in the right of way.

Parking:

- No equipment, vehicle, dumpster, or storage of materials is permitted in a "No Parking" area.

- No Persons shall park on any City sidewalk. Persons who may be eligible to receive a civil penalty (ticket) per City Code [Sec. 11-2025\(e\)\(1\)](#).
- Contractors will be required to promptly remove any dumpsters, equipment, vehicles or stored materials from the City Right of Way at the discretion of the City along with any Special Event. See schedule of event: [Festivals, Road Races, and Special Events](#)
- All conditions of [Part 11 Transportation Article J Parking and Standing](#) apply. These provisions include but are not limited to the following parking violations:
 - Parking within 5 feet of any driveway
 - Parking within 15 feet of any fire hydrant
 - Parking within 25 feet of any intersection
 - Parking within 12 feet of any crosswalk
 - Parking within 50 feet of any Railroad Crossing or overpass approach
 - Parking in a defined Handicapped Parking Space
 - Parking any vehicle larger than 8 foot wide and/or 20 foot in length or any Trailer on a City Street.
 - Parking further than 12 inches of the curbing

Paid, Times, and Regular Parking Spaces

- Contractors will be required to promptly remove any dumpsters, equipment, vehicles or stored materials from the City Right of Way at the discretion of the City along with any Special Events. See schedule of event: [Festivals, Road Races, and Special Events](#)
- All conditions of [Part 11 Transportation Article J Parking and Standing](#) and [Part 11 Transportation Article K Parking Meters](#) shall apply.
- All Construction Vehicles or Construction Equipment SHALL clearly display a valid parking permit and have the Company Logo and Name on the Vehicle. Private vehicles are not permitted. Permits may be purchased at the City's Parking office.
- The use of any metered parking spaces will require the user to pay a parking encumbrance fee per space that is utilized for the duration of the project. **Repaying the Meters is not permitted.**
- If any Parking Meter(s) need to be removed for a project the contractor shall be required to make that request to the City and pay all removal and reinstallation cost for said parking meter prior to beginning construction. These fees shall be in addition to any required space encumbrance fees owed to the City.

City Loading, Taxi, Bus and Valet Zones

- No equipment, vehicle, dumpster, or storage of materials is permitted in any Loading, Taxi, Bus or Valet Zone unless specific permission is provided by City Staff.
- City Loading Zones (Commercial, Material, Passenger, or Mixed-Use Loading) are for the sole purpose of loading and unloading (not for parking) and require that the user be expeditiously loading and unloading without exceeding that Loading Zones time limit.
- All conditions of [Part 11 Transportation Article J Parking and Standing](#) apply

- All vehicles utilizing any Commercial Loading Zone are required to have their Company Logo and Name permanently attached on the vehicle (no magnetics) with at least 2-inch lettering. Private vehicles are not permitted and will be cited for illegally parking in commercial loading zone.

Requirement for Parking Mitigation Plan

- Contractors shall be required to maintain all parking needs within the construction site or submit a detailed parking plan explaining how the contractor plans to mitigate all parking and loading needs for the site. This plan shall only include minimal use of street parking by contractors or subcontractors. If a parking plan has been approved by the City the contractor shall be the required to maintain all terms of the plan during the entirety of construction unless otherwise approved by the City.

Obstruction of Bike Lanes

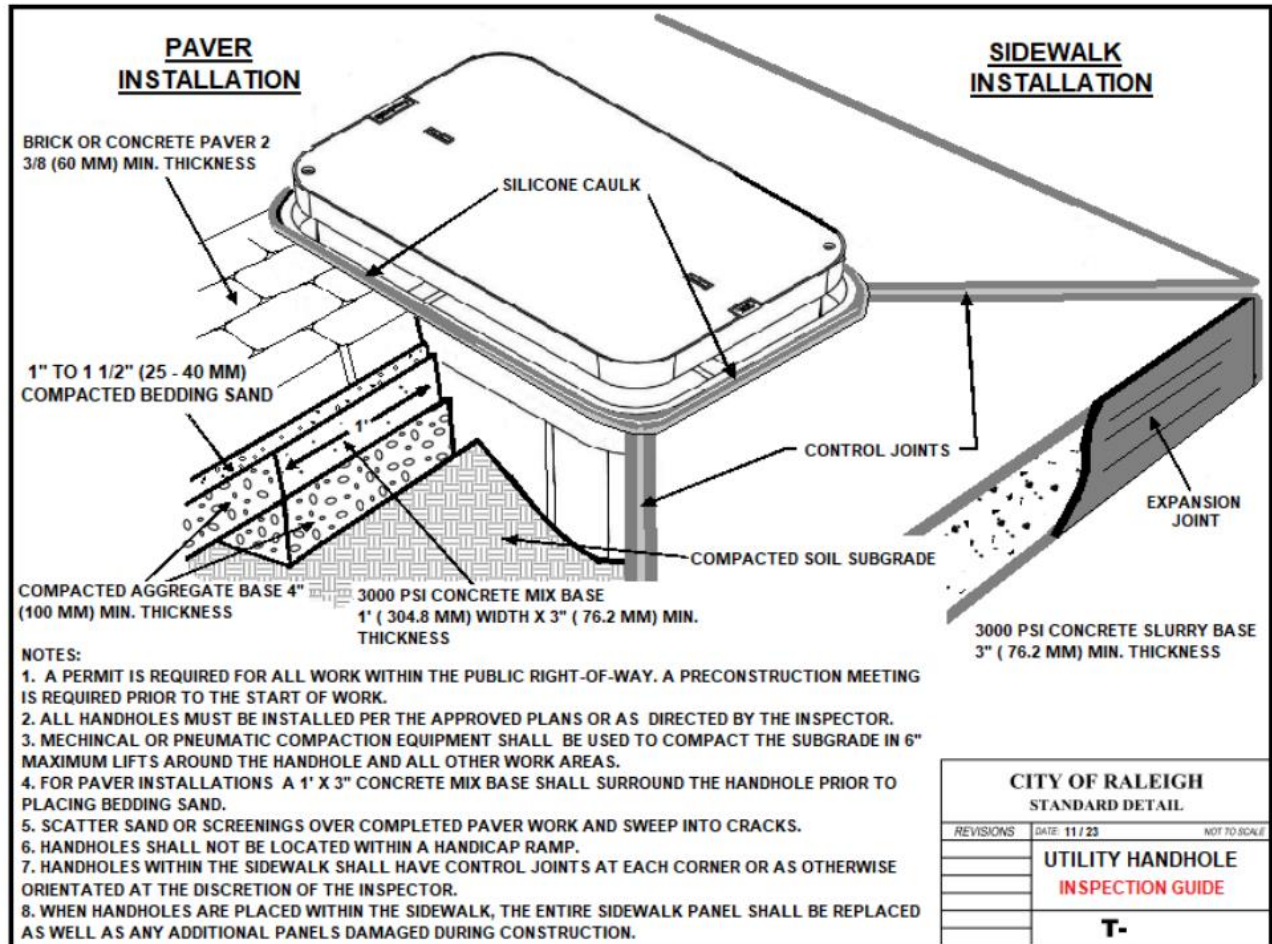
- No parking or obstructions allowed in Bike Lanes.

Obstruction of Transit Stops

- No parking or obstructions allowed in designated Bus Zones.

Telecommunications (Fiber and Conduit Installation)

- Minimum bury beneath roadways shall be 2 feet; and 2 feet below the bottom of side ditches and sidewalks, unless otherwise approved by the Transportation Director or designee.
- Restoration and work shall occur per all General Provisions listed above this document.
- All vault placements in the sidewalk area shall be approved by City Staff during permitting. If a field issue arises, the inspector for that area must be notified. Vaults placed in the sidewalk, must have a pre-pour inspection prior to pouring of concrete.
- It shall be the responsibility of the contractor to replace the whole sidewalk panel(s) or concrete panel(s) from joint to joint if it has been broken, cored, or damaged from the work performed.
- Vaults and handholes cannot be placed over any water or sewer line or within a 10' of curb ramp.
- Vaults cannot be installed within 5 ft of any hydrant or directly in front of hydrant.



EMERGENCY REPAIR PROVISIONS

Emergency Construction for Telecommunication Lines

- When an emergency repair is required to any private utility infrastructure in the right of way an email notification shall be required. This will be emailed to ROWemergencypermit@raleighnc.gov
- A permit shall be submitted within 24 hours of incident.
- If the emergency repair was for a telecommunication line, and the repair to the utility has been made restoring service to the customer; the contractor(s) has 72 hours to install the new line and restore the area. This includes the removal of the temporary line.
- Any pre-planned work or upgrading existing utility infrastructures is not covered under emergency provisions and a right of way occupancy permit shall be required before work can begin.
- All work is required to meet applicable provisions.

Contact List

EMERGENCY NUMBERS

FIRE.....	911
GAS LEAK/BREAK	911
WATER/SEWER LINE BREAK.....	919-996-3245

PARTNER AGENCIES

NC811.....	336-855-5760
NC811 Locates.....	1-800-632-4949
NCDOT	919-733-3213

CITY OF RALEIGH

Encroachments	919-996-2493
Engineering Inspections Group	919-996-6446
Illicit Discharge	919-996-3940
Raleigh Parking.....	919-996-3996
Special Events.....	919-996-2200
Storm Drain Repairs (Bore Throughs)	919-996-6446
Traffic Signals	919-996-6020
Transit.....	919-996-4043
Transit (After-Hours Only, Dispatch).....	919-996-3918
Tree Impact Permit	919-996-4115

Appendix

SAMPLE NOTIFICATIONS LETTER

DEVELOPER/CONTRACTOR COMPANY LETTERHEAD

DATE

SUBJECT

PROJECT NAME

Dear Sir/Ma'am,

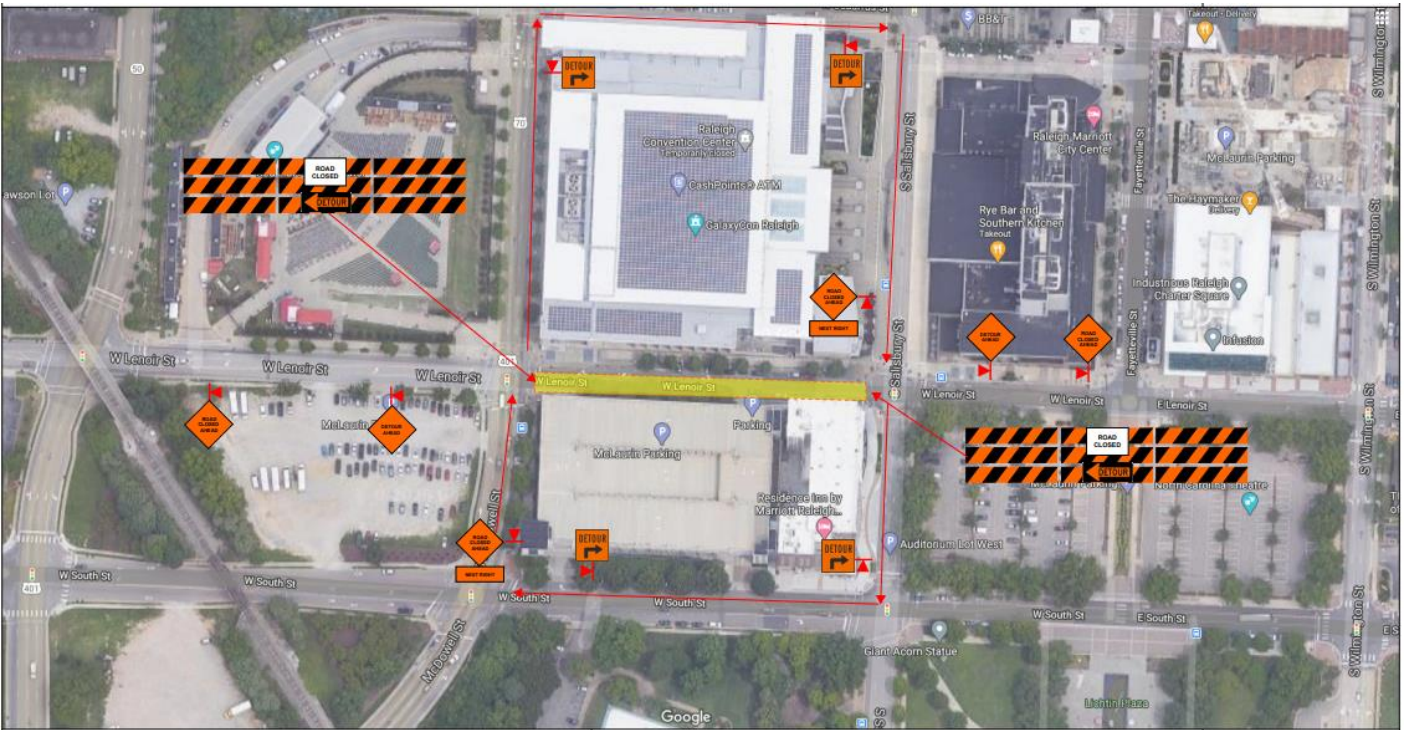
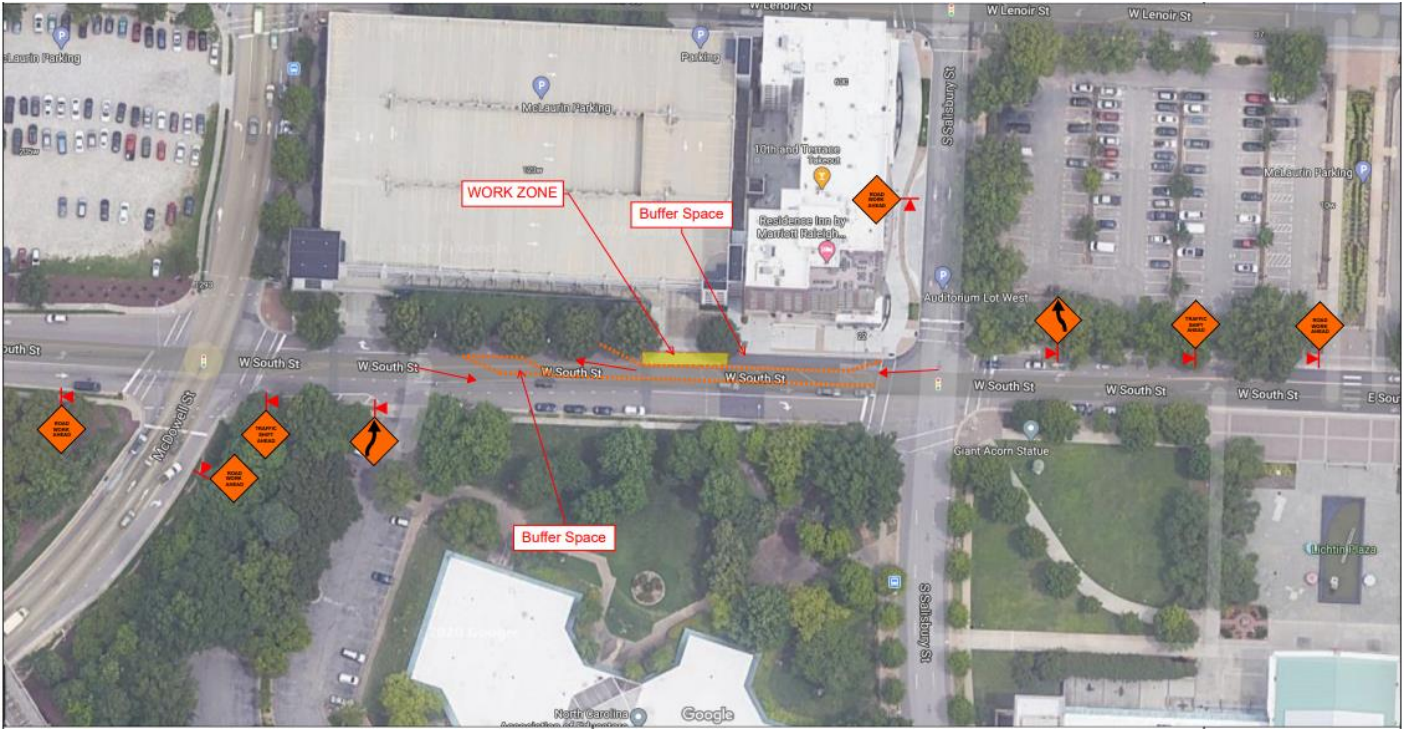
[Developer Name] is currently developing the [Project Name] which has been approved by the City of Raleigh and is located at [Address]. The company and its contractors are working diligently to complete the project in a timely, efficient, and clean manner; however, the activities associated with construction of this project may cause some disruptions and inconveniences. These construction activities are set to begin on [Date] and hopefully conclude by [Date].

We sincerely apologize for any disruptions or inconveniences these activities may cause and sincerely appreciate your patience and understanding. Questions or comments may be directed to the undersigned at [Phone Number] or [E-mail Address].

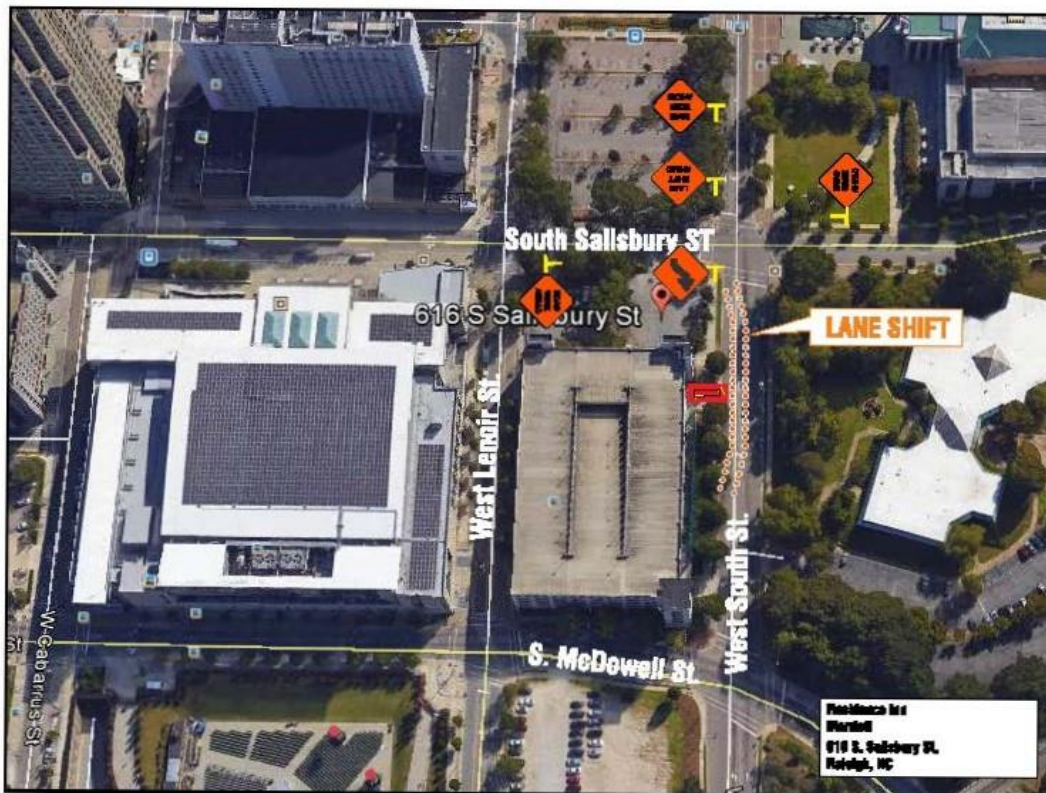
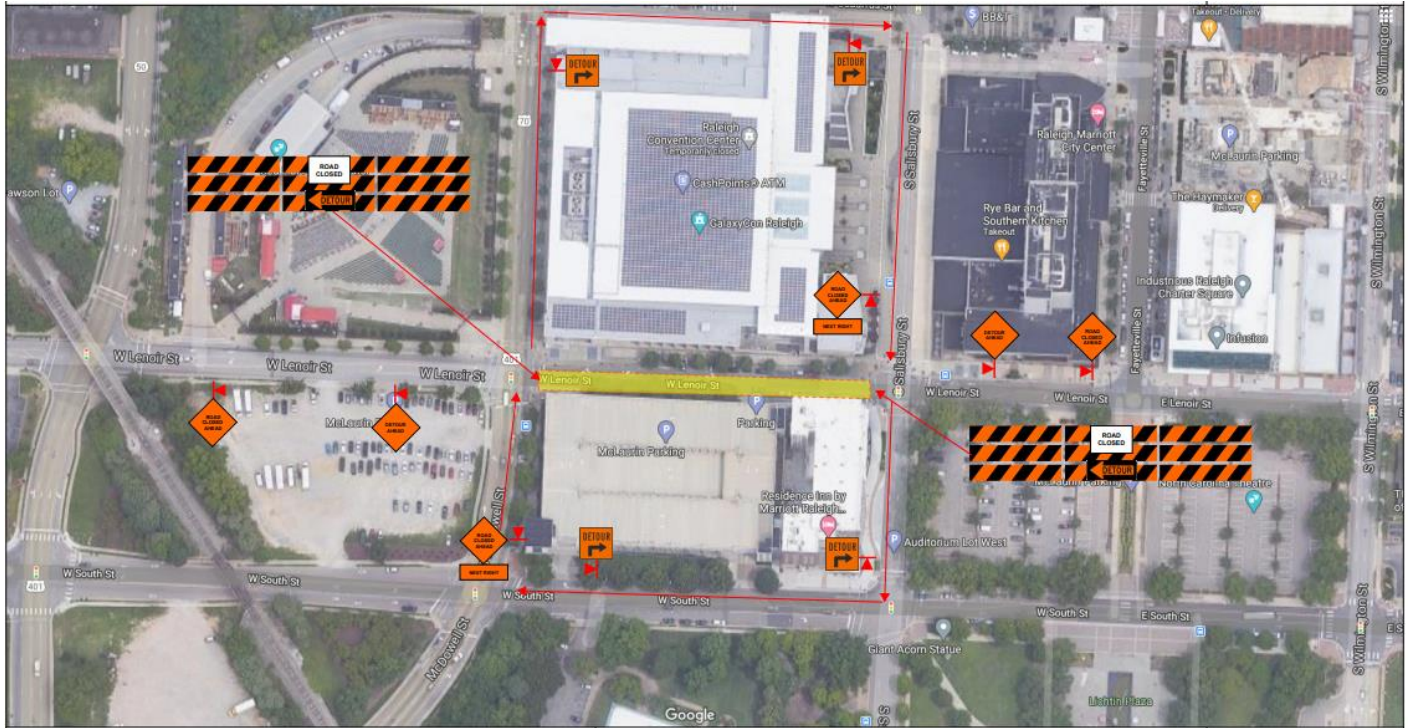
Sincerely, [Signature]

DEVELOPER CONTACT NAME TITLE DEVELOPER COMPANY

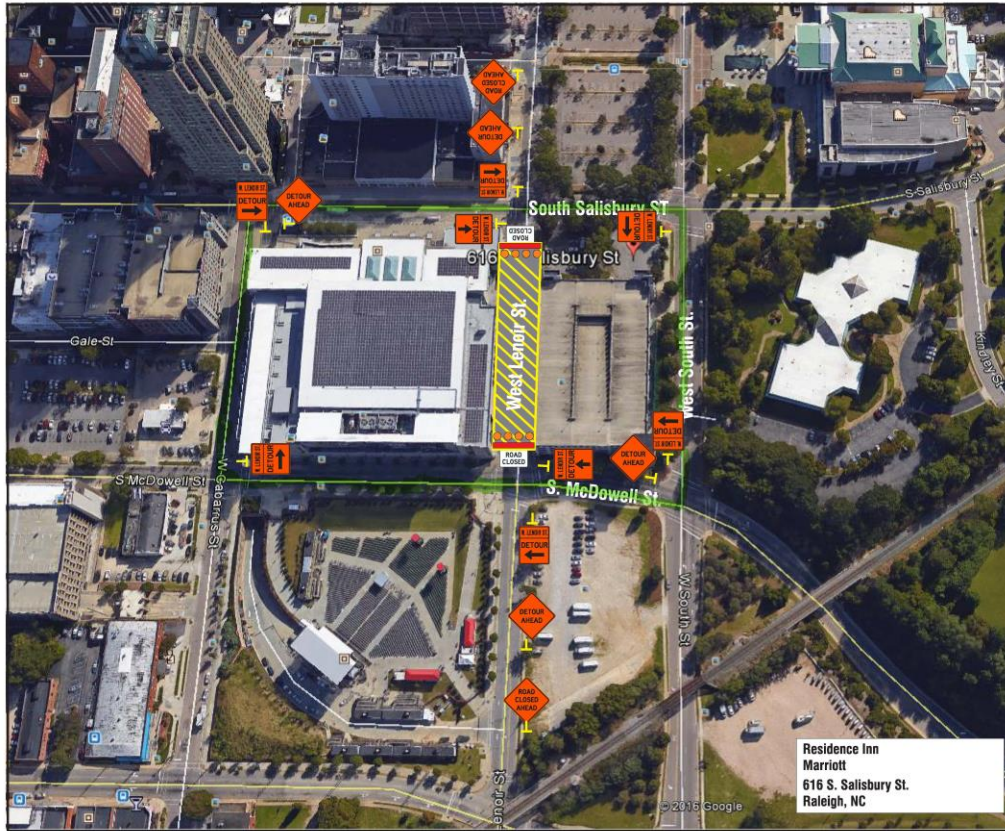
Sample Traffic Control and Vehicular Detour Plan, and Pedestrian Plan



Right of Way Provisions



Right of Way Provisions



ROAD CLOSED AHEAD (Qty. 2)

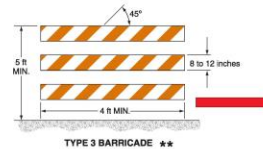
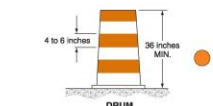
DETOUR AHEAD (Qty. 5)

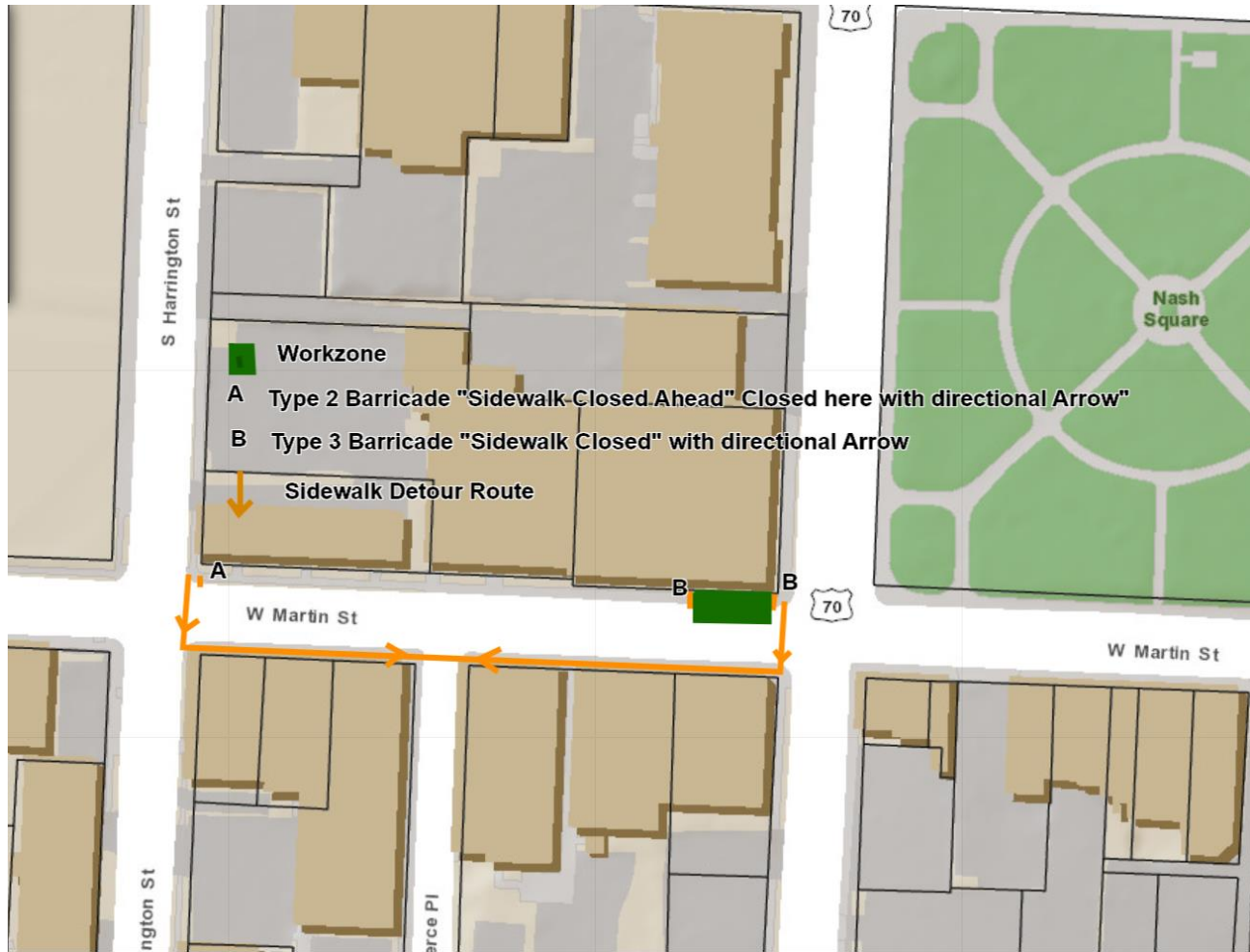
ROAD CLOSED (Qty. 2)

W. LENOIR ST. DETOUR (Qty. 4)

W. LENOIR ST. DETOUR (Qty. 2)

W. LENOIR ST. DETOUR (Qty. 2)







**City of Raleigh
Development Services**



Right-of-Way Occupancy Permit

Permit #: ROW-023210-2023

ADDRESS: **108 Martin Luther King Jr Blvd**

Permit Issuance Date: June 13, 2023
Permit Expiration Date: July 17, 2023

NC PIN: 1703753091
City Limits: CITY-RALEIGH
Authorized Work: Directional Drilling (2) 2 inch conduits
Work Type: Fiber Install
Total Construction Cost: \$0.00
Entity Type: Telecom
Entity: Other

Conditions/Comments:

Will Follow all Right of Way Provisions
Pre-Construction Meeting is Required Prior to Work.
Final Walk-Through is Required for Permit Closeout
There is a 24-month warranty period for all work.

Property Owner(s):

This permit allows the following obstructions:

SIDEWALK MAJOR - PARTIAL CLOSURES

Street Name	Primary LF	Secondary LF	Parking Spaces	From	To	Duration	Additional Comments
Atlantic Ave., Departure, Wake Forest, MLK Jr. Blvd.	33,394			06/13/2023	07/31/2023	30	

STREET LANE - MAJOR CLOSURES

Street Name	Primary LF	Secondary LF	Parking Spaces	From	To	Duration	Additional Comments
Atlantic Ave., Departure, Wake Forest, MLK Jr. Blvd.	33			06/13/2023	07/31/2023	30	