

SIGNAL CONSTRUCTION GENERAL NOTES

1. Contractor shall notify the City of McKinney Signal Supervisor prior to beginning work on existing or proposed traffic signals. Contact Signal Supervisor at (972) 547-7428 with 24 hour notice of intent to begin signal work.
2. A City of McKinney Traffic Engineer shall be present when temporary or permanent traffic signals are to be activated. Contact the City of McKinney Transportation Engineering Manager at (972) 547-7438 with at least one week notice of any planned turn-on activities.
3. New signals shall be activated in full color operation with all indications functional. No flash period will be allowed.
4. All hand hole covers, pole caps, conduit seals and cable identification tags shall be in place prior to signal activation.
5. Contractor shall not enter any City of McKinney traffic signal cabinets or electric service pedestals without the supervision of a City of McKinney traffic signal technician or designee.
6. Contractor shall notify the City of McKinney Signal Supervisor within 1 hour of any damage which has occurred to signal, illumination, or City of McKinney communication infrastructure during construction. Contractor will be held responsible for cost of repair to city infrastructure resulting from construction operations.
7. Signal hardware and equipment to be salvaged will be inventoried in the field prior to the beginning of construction by City of McKinney signal staff. Any and all salvage materials to be returned to the city shall be handled in a manner as to minimize loss, damage, and/or breakage. Contractor will be responsible for replacement cost of any materials lost, damaged, or broken at the discretion of the City of McKinney Signal Supervisor.
8. All existing signal hardware shown for removal shall be returned to the City of McKinney traffic control facility located at 1550 S. College Street unless otherwise directed by the City of McKinney Signal Supervisor. Contact the City of McKinney Signal Supervisor with 24 hour notice of intent to deliver salvage materials and/or equipment.
9. A City of McKinney Traffic Engineer shall be present during the layout of pavement markings on approaches to and within signalized intersections. Contractor shall not place any final markings without express approval from City of McKinney Transportation Engineering.

SIGNALS HARDWARE

1. Mast arm assemblies shall be galvanized steel finish unless otherwise noted in the plans.
2. All vehicular and pedestrian signal heads shall be black polycarbonate. Signal visors shall be aluminum with flatblack powdercoated exterior finish and matte black inside finish. Signal backplates shall be aluminum, non-vented, with flat black powdercoated finish.
3. All proposed signal displays shall be LED.
4. All proposed pedestrian displays shall be countdown type.
5. All vehicular signal heads shall be mounted horizontally unless otherwise shown on the plans.
6. Contractor shall submit shop drawings for all proposed traffic signal hardware and equipment prior to ordering materials.
7. Proposed traffic signal cabinet, vehicle detection equipment and associated cable, opticom equipment and associated cable, and police enforcement confirmation lights are to be provided by the City of McKinney and installed by the contractor. Battery backup units, communication equipment, and monitoring cameras, where applicable, will be provided and installed by city forces after field installation of the traffic signal cabinet. Contact the Signal Supervisor at (972) 547-7428 with 24 hour notice of intent to pick up materials and/or equipment.
8. Proposed signal phasing and wiring as shown on the plans is subject to change. Contractor shall wire proposed signal as shown in the cabinet drawings provided with the signal cabinet.

ELECTRIC SERVICE

1. Contractor shall coordinate point of electric service and proposed pedestal location with the City of McKinney and the electric provider prior to constructing electric service foundations or placing conduit.
2. Electric service pedestal exterior shall be natural aluminum or stainless steel finish.
3. Contractor shall notify the City of McKinney Signal Supervisor within 24 hours when a new electrical service pedestal or riser has been installed and green-tagged.

ELECTRIC

1. All signal conductors shall be stranded copper, 14 AWG unless otherwise shown on the plans.
2. Contractor to coordinate with electric provider for relocation of existing street light.

DETECTION EQUIPMENT

1. Detection equipment locations shown on the plans are diagrammatic and subject to change based on field conditions. A City of McKinney Traffic Engineer or their designee shall be present at all times during installation of detection equipment. Contact the Traffic Engineer at (972) 547-2634 with 1 week notice to schedule installation supervision.
2. Detection equipment will be programmed by City of McKinney staff. Contact the Traffic Engineer at (972) 547-2634 with 1 week notice to schedule programming and system verification.

FOUNDATIONS AND CONCRETE

1. Contractor shall notify the City of McKinney Signal Supervisor with 2 business day notice of intent to drill signal foundations.
2. Locations of signal foundations as shown on the plans are diagrammatic and subject to change based on field conditions. Contractor shall meet the City of McKinney Signal Supervisor in the field to verify final locations prior to drilling and for inspection of reinforcing steel and grounding prior to placing concrete.
3. The contractor shall be responsible for verifying all utility location and depths in the field by potholing method prior to drilling foundations. No additional payment will be made for potholing or relocation of any foundation due to utilities.
4. The contractor shall be responsible for all concrete testing for signal-related concrete items. Concrete test reports shall be submitted to the city prior to final acceptance of the project.

SIGNS

1. All proposed signs shall be in strict conformance with the Texas standard highway sign designs manual, latest edition.
2. All proposed signs to be mounted to traffic signal equipment and associated hardware will be provided by the City of McKinney and are to be installed by the contractor. Contact the City of McKinney Signs and Markings Supervisor at (972) 547-7437 to schedule pick-up of materials.

ITEMS TO BE PROVIDED BY CITY FOR INSTALLATION BY CONTRACTOR

1. Cabinet (NEMA TS2)
2. Traffic Signal Controller
3. Signal poles and mast arms
4. APS equipment
5. Detection equipment and cable
6. Opticom equipment and cable
7. PTZ cable
8. Police enforcement confirmation lights
9. All signal-mounted signs & hardware
10. Luminaires (as required)

ITEMS TO BE PROVIDED BY CITY AND INSTALLED BY CITY FORCES

1. Battery backup unit
2. Communication equipment
3. PTZ camera

SIGNAL CONSTRUCTION NOTES

OCTOBER 2019
SHEET 1 OF 1

CITY OF MCKINNEY ENGINEERING DEPARTMENT
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