



Capital Improvements Department

General Construction Notes – June 14, 2019

1. The Contractor must keep a copy of all Contract Documents on site at all times; this includes but is not limited to, the Plans and Project Manual. Refer to the Supplementary Conditions of the Project Manual for the Order of Precedence of Contract Documents.
2. The Contractor will not receive additional payment for any work required to comply with the Construction Notes.
3. "Match existing" signifies vertical and horizontal alignment. Changes in any horizontal or vertical position or alignment are subject to Owner review and approval.
4. The Contractor shall construct facilities to the lines and grades required per the plans and, as required, to meet field conditions. Final grades shall be established to assure positive drainage. Minor adjustments to match field conditions do not warrant additional payment to the Contractor.
5. Construction noise, declared a nuisance under City ordinance, is not allowed between 9:00 p.m. and 7:00 a.m. except under special permit.
6. Waste material must be removed from the work site and lawfully disposed of in such a manner as to not damage the Owner or other person. The Contractor must provide a Proof of Destination documents upon request by City Inspectors for trucks used to deliver or remove material or spoils from the job site.
7. The Contractor shall not place any waste material in the 100-year floodplain without first obtaining an approved floodplain development permit from the City and/or County. Material, storage, lay down and staging areas must be on the same side of roadway as adjacent work zone. Staging areas are not to be used for stockpiling.
8. Contractor must clean mud, dirt and/or debris tracked or otherwise transported from the project site onto existing streets by any vehicle that exits the site. The right-of-way shall be kept clean at all times. Daily sweeping may be required. A citation will be issued if the right-of-way is not kept clean.
9. Contractor shall confine construction operations to available street and public right-of-way unless the Contractor, at his expense, has obtained other rights-of-way or temporary construction easements. Written proof and approval of landowners and tenants is required for other properties used by Contractor for any reason.
10. Contractor shall communicate, coordinate with and when possible accommodate delivery schedules of adjacent businesses and facilities.
11. It is the responsibility of the Contractor to furnish all residents and businesses with an information flyer on all jobs during construction.
12. All City of San Marcos Details and Specifications apply to the work; even if they are not specifically included in the project manual. Any missing specifications or details required to complete the work, but not included in the project manual, can be found on the City of San Marcos webpage: <http://www.sanmarcostx.gov/367/Design-Construction-Guide>

Utility Notes

1. Location and depths of existing utilities, including water & sewer services, shown on the plans are approximate only. Actual locations and depths must be field verified by the Contractor at least 48 hours prior to construction and well in advance of work. It shall be the Contractor's responsibility to locate utility service lines as required for construction and to protect them and maintain continual service during construction. All exposed utilities during excavation must be supported and restrained, as necessary.
2. The Contractor shall mechanically restrain all fittings. Bell joints shall be mechanically restrained in accordance with the Engineer's specifications that are based on site conditions. The Contractor shall use a joint restraint table, sealed by the Engineer. If a joint restraint table is not available, all joints must be mechanically restrained. All mechanically restrained fittings are subsidiary to the 510 specification.
3. Any portion of work, including traffic control utility permitting, which lies in Texas Department of Transportation (TxDOT), UPRR, or county property or right-of-way shall comply with respective entities permitting guidelines. The Contractor must notify the respective entities' inspector before work begins.
4. The Contractor shall submit a permit for any water tie-in and/or shutoff to the Inspector at least three (3) weeks in advance of the work.
5. Contractor shall notify all residents, who will be affected by any disruption of service, with handouts provided by Inspector.
6. The Contractor will keep the area (on top of and around) the water meter box valves free of all objects, and debris at all times.
7. The Contractor may not operate any City owned valve. The Contractor will be fined if a water valve is operated without express written consent of the Water Utility, regardless of who installed the valve.
8. If electric overhead power lines exist in the project area, Texas Law Article 1436c, prohibits all activities in which persons or equipment may come within six (6) feet of energized overhead power lines and Federal Regulations, Title 29, Part 1910.180(i) and Part 1926.550(a)(15) require a minimum of ten (10) feet from these facilities. Where Contractor must work near overhead power lines, call 512.393.8313 for the lines to be de-energized and/or moved at Contractor's expense.
9. All testing shall be complete prior to tying into existing system.
10. All construction water meters shall be obtained from the City of San Marcos Water Department with the appropriate form. Only City personnel may relocate temporary meters from one hydrant to another.

Erosion Control Notes

1. All disturbed areas during construction shall be restored per the 600 series specifications with a minimum of four (4) inches of topsoil and seeding/sodding. No payment shall be made for restoration outside the limits of construction.
2. Adequate dust control measures shall be required at all times. This includes, but is not limited to, daily watering of the site, daily sweeping of the site, keeping spoils covered or any other measured deemed necessary by the inspector.

Tree Protection and Preservation General Notes

1. The Contractor will not operate or store equipment, vehicles or materials within the root protection zone of any tree within or near the project.
2. Trees shall be protected per Item 610S Preservation of Trees and Other Vegetation.

Traffic Notes and Special Conditions

1. The Contractor must maintain all streets within project limits by repairing trenches, potholes, and leveling up with asphalt at no additional cost to the City, at the end of each workday. The Contractor shall provide for access to residences and all businesses at all times within all the phases of the work. When the work requires the excavation of the street and the removal of the existing driveway approaches and sidewalks, the Contractor shall be responsible for providing temporary all-weather access to the businesses and residences. The temporary driveway approaches shall be constructed with cold mix asphalt at no separate cost to the City.
2. Any damage to permanent traffic signals, the controller box, loops or conduits during or upon completion of the project shall be repaired or replaced at the Contractor's expense. The decision to repair, as opposed to replace, the damaged equipment shall be made by the City of San Marcos Public Services Transportation Division.
3. Accessibility Requirements:
 - a. Prior to initiating the construction of new driveway approaches, the Contractor shall give advance warning in person, or in writing, of at least 48 hours to each residence that will be immediately affected.
 - b. For businesses with more than one driveway, at least one driveway shall remain open while the other new driveway approaches are constructed. For businesses with only one driveway, the new driveway approaches shall be constructed in half widths, unless a temporary asphalt driveway is first installed at no additional cost to the City.
 - c. Construction of a driveway 20 feet or greater in width must be done one half at a time to allow continuous access to the property.

Material Testing

TESTING SCHEDULE	
Description:	*Rate:
Soils:	
Standard Proctor – Trench Backfill	Per Material Source
Standard Proctor – Raw Subgrade	Per Material Source or Street
Densities – Trench Backfill**	Per 200 LF Pipe per lift
Densities – Cement Stabilizer Backfill	Per 200 LF Pipe
Densities – Raw Subgrade**	Per 100 LF Street per lift
Densities – Driveways	Per 5 Driveways
Base:	
Sieve Analysis	Per 300 LF Street
Atterbergs Limits	Per 300 LF Street
Modified Proctor	Per Material Change
Densities of Compacted Base**	Per 300 LF Street per lift
Wet Ball Mill Test	Per Material Source
Triaxial Test	Per Material Source
Hot-Mix Asphalt Concrete (HMAC):	
Extraction, Sieve Analysis	Per 500 Tons or Day
Lab Density & Stability	Per 500 Tons or Day
Theoretical Density (Rice Method)	Per 500 Tons or Day
Temperature – During Lay-Down	Continuous as Needed
Thickness – In Place	Per 300 LF Street
% Air Voids – In Place	Per 300 LF Street
% Theoretical Density – In Place	Per 300 LF Street
Concrete:	
(Unconfined Compression, 7, 14 & 28 Day)	
Curb and Gutter	Per 1000 LF C&G
Sidewalk	Per 4000 SF
Driveway	Per 2500 SF
Curb Inlets	Per 10 Inlets
Air, Slump & Compression – In Place	Per exposed structure
Slump & Compression – In Place	Per underground structure

* The above testing rates are only anticipated guidelines. The City of San Marcos Department of Capital Improvements reserves the right to conduct additional testing at the City's discretion.

** Testing must be conducted during backfill operations.

Project Specific Notes

***Provided by the Owner*