

WHEN RECORDED RETURN TO:

City of Tolleson
ATTN: Crystal Zamora, City Clerk
9555 West Van Buren Street
Tolleson, Arizona 85353

Ord584MAGUSSPubWrks-10-1-1--
Garciac

ORDINANCE NO. 584 N.S.

AN ORDINANCE OF THE CITY OF TOLLESON, ARIZONA RELATING TO THE CITY OF TOLLESON'S SUPPLEMENT TO THE MARICOPA ASSOCIATION OF GOVERNMENTS STANDARDS FOR PUBLIC WORKS CONSTRUCTION; ADOPTING THE "CITY OF TOLLESON 2018 SUPPLEMENT TO THE MARICOPA ASSOCIATION OF GOVERNMENTS UNIFORM STANDARD SPECIFICATIONS AND UNIFORM STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION"; AMENDING TOLLESON CODE, CHAPTER 12, LAND USE, RELATING TO STANDARDS FOR PUBLIC WORKS CONSTRUCTION; AND PROVIDING FOR SEVERABILITY.

BE IT ORDAINED BY THE MAYOR AND CITY COUNCIL OF THE CITY OF TOLLESON, ARIZONA, as follows:


Section 1. That certain document entitled "CITY OF TOLLESON 2018 SUPPLEMENT TO THE MARICOPA ASSOCIATION OF GOVERNMENTS UNIFORM STANDARD SPECIFICATIONS AND UNIFORM STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION," three copies of which are on file in the office of the City Clerk, which document was made a public record by Resolution No. 2373 of the City of Tolleson, Arizona, is hereby referred to, adopted and made a part hereof as if fully set out in this ordinance.

Section 2. Chapter 12, Article 12-1-3 of the City Code is amended as follows:

All public works related construction, whether done by the city or by another entity, shall be done in accordance with the codes entitled the *Maricopa Association of Governments Uniform Standard Specifications for Public Works Construction*, ~~1998~~ 2015 edition, as amended, and the *Maricopa Association of Governments Uniform Standard Details for Public Works Construction*, ~~1998~~ 2015 edition, as amended, which are made a part of this chapter the same as though the codes were specifically set forth in their entirety herein; and the *City of Tolleson* ~~2011~~ 2018 *Supplement to the Maricopa Association of Governments Uniform Standard Specifications and Uniform Standard Details for Public Works Construction*.

Section 3. If any section, subsection, sentence, clause, phrase or portion of this ordinance or any part of these amendments adopted herein by reference is for any reason held to be invalid or unconstitutional by the decision of any court of competent jurisdiction, such decision shall not affect the validity of the remaining portions thereof.

PASSED AND ADOPTED by the Mayor and Council of the City of Tolleson, Arizona, on this 13th day of November, 2018.



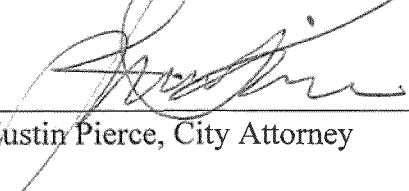
Anna Tovar, Mayor

ATTEST:



Crystal Zamora, City Clerk

APPROVED AS TO FORM:



Justin Pierce, City Attorney

CITY OF TOLLESON
2018 SUPPLEMENT
TO THE UNIFORM STANDARD SPECIFICATIONS
MARICOPA ASSOCIATION OF GOVERNMENTS
AND
UNIFORM STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION

The City of Tolleson has adopted the Maricopa Association of Governments Uniform Standard Specifications and Uniform Standard Details for Public Works Construction, 2015 edition, as amended (the "MAG Specifications"), together with this City of Tolleson 2018 Supplement to the Maricopa Association of Governments Uniform Standard Specifications and Uniform Standard Details for Public Works Construction (the "MAG Supplement"), as the standard specifications for public works within the City.

1. Except as otherwise modified by change orders, addenda, special provisions, or project plans, all work and materials shall conform to the most current revision of the MAG Specifications and Standard Details as revised by the MAG Supplement. The Arizona Department of Transportation and the Maricopa County Department of Transportation specifications shall be utilized where specifically called out in approved plans. The MAG Supplement shall be considered part of the construction plans and shall take precedence over individual plan notes.
2. The Contractor is responsible for dust control related to the project construction and shall exercise such measures as necessary to control any abnormal conditions, including, but not limited to, maintaining and utilizing suitable dust control equipment on the project site. The Contractor shall submit to the City a copy of their approved County dust control plan, erosion control plan, and/or permits prior to the start of the work.
3. The Contractor shall provide adequate means for cleaning trucks and/or other equipment of mud prior to entering public streets, and it is the Contractor's responsibility to clean streets and take whatever measures are necessary to ensure that all roads are maintained in a clean, mud and dust free condition at all times.
4. The Contractor, at its sole expense, shall be responsible for obtaining private trash pickup for the project site.
5. Prior to final acceptance, the Contractor shall ensure that all curbs, pavement, and sidewalks have been swept clean of all dirt and debris.
6. Construction water is available from the City of Tolleson in accordance with the City's Hydrant Meter Issuance Policy and upon payment of applicable fees. The City requires all construction water to be delivered through an approved water tower with air-gap. A water tower shall be provided on or near the site at all times that water for construction is required. The hydrant from which construction water is to be delivered shall be determined by the City. Call (623) 936-7111 for details.

7. The City shall not be responsible for the construction means, methods, techniques, sequences or procedures or for the safety precautions or programs utilized in connection with the work. The City and the Engineer shall not be responsible for the Contractor's failure to carry out the work in accordance with the Contract Documents.
8. A set of City-approved plans shall be kept on the jobsite at all times. Deviation from the plans must be preceded by a City-approved plan revision.
9. It is the Contractor's sole responsibility to verify the presence and location of any and all existing overhead and/or underground utilities that may interfere with construction. It is the Contractor's sole responsibility to adequately protect and maintain any such utilities, at no additional cost to the City, whether or not said utilities are shown on the construction plans.
10. Contractor shall be responsible for any and all damage that may be incurred to the utilities and be liable for any repair costs including incidental costs. The City will not participate in the cost of construction for utility relocation.
11. Contractor shall comply with the Arizona Revised Statutes regarding "Blue Stake" and pothole activities as applicable. The Contractor shall be responsible for contacting the owner of each utility in conflict and for making all necessary arrangements for relocating, repairing or abandoning the utility or facility as required by the utility owner.
 - A. Contractor shall be the City's Blue Stake field locator and perform all requirements as prescribed in ARIZ. REV. STAT. § 40-360.21 - § 40-360.21 for all underground facilities that have been installed by Contractor on the project, until the project is accepted by the City.
 - B. At least two (2) business days prior to commencing excavation, the Contractor shall call the BLUE STAKE CENTER (602-263-1100) for information relative to the location of buried utilities.
12. All construction staking shall be at the Contractor's expense.
13. The Contractor must notify the City's Building Department at least twenty-four (24) hours prior to start of each phase of construction. Phone (6 23) 93 6-7111.
14. The Contractor shall, at his own expense, be responsible for obtaining any and all necessary permits prior to construction, unless otherwise provided for by the Contract Documents.
 - A. City of Tolleson permits are required for the following work items:
 - All work within the City right-of-way.
 - Necessary offsite construction.
 - Necessary onsite construction.

15. Any work performed without the approval of the City of Tolleson Building Department and/or all work and materials not in conformance with the approved plans and specifications are subject to removal and replacement at the Contractor's sole expense.
16. Disposal of and/or stockpiling of excess material within the City Limits is prohibited. A use permit is required for disposal or stockpiling materials within a residential area.
17. Stockpiling of excavated material shall not exceed a height of six (6) feet above the natural ground elevation.
18. Contractors must give location for wasting excess excavation and a letter from the property owner giving permission for dumping prior to starting construction.
19. The Contractor agrees to assume sole and complete responsibility for jobsite conditions during the course of construction of this project including safety of all persons and property. This requirement shall apply continuously and not be limited to normal working hours. The Contractor shall defend, indemnify and hold the City harmless from any and all liability, real or alleged, in connection with the performance of work on this project, excepting for liability arising from the sole negligence of the City.
20. The Contractor shall be responsible for providing proper barricading and traffic control including access into and throughout the work site. This is to include any upfront potholing activities. Traffic control shall be maintained in accordance with MAG Specification section 401 and the most current edition of the Manual on Uniform Traffic Control Devices ("MUTCD"). Off-duty Police Officers required for traffic control shall be members of the City of Tolleson Police Department.
21. No paving construction shall commence until all underground utilities within the roadway are completed.
22. Base course shall not be placed on subgrade until base requirements have been completed and accepted by the City.
23. Contractor shall ensure that all water valve boxes, sewer manhole frames and covers, sewer clean-outs and all other utility access street penetrations have been accounted for, referenced, and adequately lowered below grade to allow for paving operations. Utility items shall be accurately measured and marked to an offset point (tied-off) on the adjacent concrete curb or other temporary benchmark as necessary. Accurate dimensions shall be indicated. All data shall also be accurately documented on a set of construction plans. Accurate route surveying is also allowed in accordance with industry standards, however current GPS methods are not preferred and can only be used as a backup reference.
24. Concrete to be used for construction of aprons, valley gutter, right turn/deceleration lanes, paving, sidewalk ramps, commercial driveways and other concrete facilities designed to support vehicle traffic shall be minimum MAG Class A, unless otherwise shown on the City-approved plans or specifications.

25. Gutters shall be water tested in the presence of the City's authorized representative to ensure proper drainage, prior to final approval by the City.
26. Exact point of matching termination and overlay, if necessary, may be determined in the field by the City.
27. Any existing curb, gutter or sidewalk located along the frontage of the project which is cracked or broken either prior to or during the construction of the project shall be replaced by the Contractor at Contractor's sole expense.
28. The Contractor shall call for inspection of each concrete headwall during forming and shall not pour concrete until headwall is approved by City Inspector.
29. Staking finished floor elevation is the responsibility of the Contractor.
30. Developer or Contractor shall submit certification of constructed building pad elevations prior to request for final inspection.
31. Finished floor elevations shall be a minimum of fourteen inches (14") above point of outfall. Carport elevation shall be four inches (4 ") below finish floor elevation.
32. Retention basins shall be constructed to the finished grade, level bottom and side slope dimensions and provide the retention volumes per the approved construction plans. Retention basin side slopes shall not exceed a four to one (4:1) ratio in public right-of-way unless noted otherwise on the plans.
33. The slopes on all sides of the stockpiled excavated material shall not exceed a one to four (1:4) ratio of height to length.
34. Developer or Contractor shall provide sufficient staking to ensure that all grades are accurately constructed. Any portions of the project not graded per the approved plans shall be regraded at Contractor's expense.
35. Any and all damage to existing public improvements shall be repaired by the Contractor to the City's satisfaction prior to issuance of final project acceptance, at the Contractor's sole expense.
36. No final inspection walk through will be scheduled until "as-built" plans have been submitted by the Engineer or approved registered surveyor for review. No final acceptance shall be issued until "as-built" plans have been reviewed and approved by the City Engineer. Upon approval, the Owner shall provide to the City one set of mylar reproducible plans, two blackline copies, and one digital copy on CD with each drawing sheet as a separate pdf file.
37. Unless otherwise specified, all pavement marking and traffic control signing installations and removals shall conform to the requirements of the City of Tolleson and as set forth in the Arizona Department of Transportation (ADOT) standard drawings, details and specifications or the "Manual on Uniform Traffic Control Devices" (MUTCD) latest

edition, as applicable. Sign requirements, guidelines and warranties shall be in accordance with the MUTCD most current edition.

38. The City Inspector shall be notified 48 hours prior to starting any signing or striping work.
39. The Contractor shall be responsible for the layout and installation of the permanent pavement markings following control points that have been set no more than 50 feet apart along the lines to be striped. Pavement marking dimensions are to center of the stripe for single line striping, and to center of the space between the two lines for double line striping. Where curb and gutter is present, dimensions are to the back of curb.
40. The pavement marking drawings are schematic only and not to scale. The Contractor shall follow all dimensions, notes, details and standards when installing pavement striping, markings and markers.
41. Temporary traffic control shall conform to the City of Phoenix "Traffic Barricade Manual", the "Manual on Uniform Traffic Control Devices" (MUTCD)) and/or as directed by the City.
42. Unless otherwise directed, all final location lane striping including crosswalks and stop bars shall be thermoplastic material applied at a minimum thickness of 60 mils. All pavement symbols, arrows, and lettering shall be thermoplastic, Type I (permanent) preformed pavement markings. Temporary pavement markings shall be reflectorized traffic paint. Temporary striping or half-street roadway striping shall be paint.
43. All signs shall conform to the MUTCD and shall be made from .080 inch thick aluminum. Sign posts and extensions shall be galvanized square perforated steel tubing per City standards. Height requirements per MUTCD.
44. All traffic control sign faces shall be constructed of diamond grade reflective sheeting such as 3M 4000 series, unless otherwise noted.
45. All signs shall have a minimum clearance from edge of sign to the face of the curb of at least two (2) feet; or if no curb exists, it shall be at least four (4) feet from the edge of the pavement. All signs shall be placed so as to not interfere with pedestrian movement.
46. Any traffic control signage, including street name signs, which may be located within 10 feet of an existing street light pole, may be properly mounted to the pole with approval from the City. Sign locations and offsets may be adjusted by the City to improve visibility.
47. All concrete median curb noses shall be painted with yellow reflective safety paint from the front of the bullnose back 10 feet.
48. All raised pavement markers shall be installed in accordance with ADOT Standard Drawings 4-M-2.02, 4-M-2.03.1, 4-M-2.03.2, and 4-M-2.04. Two-way Type M raised pavement markers shall be installed adjacent to fire hydrants per City standards.

49. Any existing signage that is required to be relocated by the Contractor shall be removed, protected and stored for reinstallation by the Contractor. Damaged signage shall be replaced at the Contractor's expense. Any existing signs required to be permanently removed by the Contractor shall be salvaged for return to the City.
50. The Contractor shall remove all existing pavement markings and striping in conflict with the final striping plan, by ultra high pressure water (36,000 psi), sandblasting or by slurry seal per MAG spec. All removal methods shall be done in conformance with EPA requirements. If the removal of striping causes a depression of 1 /8 inch or greater in the pavement surface, the Contractor shall fill and slurry seal the area per MAG Specification 713 & 715, Type II.
51. The Contractor shall clean the roadway surface to the satisfaction of the City by power broom, street sweeping, air jet blowing and/or water jet/truck prior to the placement of all pavement markings. The road pavement surface shall be absolutely dry. The air and pavement temperatures shall not be less than 55 degrees F and 61 degrees F for the placement of thermoplastic marking and Type I marking tape, respectively.
52. Street name signs located at all collector and arterial intersections shall have block numbers. Block numbers shall be as assigned by the City's Building Department. Block numbers shall be installed per City specifications.
53. Fire hydrants shall be Waterous, break-away, dry-barrel design, with National Standard Threads and shall be furnished by the Contractor. All offsite fire hydrants shall be painted NFPA Yellow after installation. Each fire hydrant shall be furnished with a gate valve.
54. All valves 6 inches and greater in size shall be Mueller, Clow, or American Flow Control 2500-1 Series, gate type, unless otherwise noted, and open to the left.
55. All ductile iron pipe, valves, and fittings shall be polywrapped in accordance with MAG spec 610.6.
56. All service lines 3/4" to 2" size shall be type K copper pipe from City main to meter and from meter to backflow preventer and a minimum buried length of three feet beyond the backflow preventer, if applicable, Service connections shall conform to City of Phoenix Standard Detail P 1342. All service lines greater than 2" size shall be ductile iron pipe from City main to meter and from meter to backflow preventer and a minimum buried length of three feet beyond the backflow preventer, if applicable.
57. All taps shall use a bronze service saddle. Eight (8) inches or smaller shall be single strap and ten (10) inches or greater shall be double strap.
58. Meter boxes and lids shall be supplied by the developer and installed facing lot. (See MAG Standard Detail 320). Plastic meter boxes to be used for residential and concrete meter boxes with steel lid to be used for commercial and industrial.
59. City of Tolleson to furnish all water meters with prevailing costs to be paid by Developer.

60. All valve boxes shall be Type "A" and furnished with a debris cap. C900 PVC may be used in lieu of concrete pipe.
61. All water line compaction shall be Type 1.
62. All waterline fittings shall be cast or ductile iron, Class 350, with mechanical joints. "Uni-flange" fittings are not allowed.
63. All backflow preventers shall have AWWA certification. Prior to occupancy, Contactor or Owner shall provide testing by a certified tester for all backflow preventers. Testing shall be witnessed by the City Inspector. A copy of test reports shall be provided to the City Inspector.
64. All pack joint fittings, including meter angle valves and corporation stop connections, shall have a stainless steel clamp screw and shall be manufactured by A.Y. McDonald, Mueller, or Ford.
65. All fire lines and/or service mains above 2 inches in size shall be ductile iron pipe from the public water main to the backflow prevention device and shall have an isolation valve at the public main for each fire line or service.
66. Final testing for bacteriologic contamination shall be performed by one of the City's authorized State Certified testing laboratories - Test America (480-785-0043) or Aquatic Consulting and Testing (480-921-0844). The Contractor shall be responsible for the cost of said laboratory testing and shall make payment directly to the testing company. Should any tests fail, the Contractor shall also be responsible for all City costs associated with the collection of samples for retesting.
67. Backfilling shall not be started until lines are approved by the City.
68. All sewer lines shall be pressure tested and mandrel tested per MAG specifications. Upon completion of testing and flushing, all sewer lines shall be video inspected with the videotape provided to the City Engineer.
69. Manhole steps to be polypropylene type only.
70. All manhole rings and covers to be cast iron. Manhole lids on public manholes shall be imprinted "Tolleson Sanitary Sewer." Manhole lids on private manholes shall be imprinted "Private Sanitary Sewer" or "Private Sewer."
71. Precast manholes shall have impression ring type bases.
72. Cast-in-place concrete manhole bases shall be vibrated to ensure adequate concrete support under pipe stubs.
73. All taps shall be wye type.

74. Connections to existing sewer mains shall be accomplished by machine tapping, utilizing a saddle, or by construction of a manhole.
75. The building sewer shall be a minimum 4-1/2 feet deep at property line. For mains deeper than 6 feet, the wye and 1/8 bend shall be set at a 45 degree angle from horizontal and a short piece of straight pipe shall be placed on the 1/8 bend. Another 1 /8 bend shall be placed at the other end of the short pipe to bring the building sewer to appropriate grade at the property line.
76. All sewer line compaction shall be Type 1. Backfill around manholes shall be Type III backfill per MAG Section 601.
77. All sewer taps constructed on the city's main line, intended for future service, shall incorporate a building service line extension from the tap to a sufficient distance beyond the street right-of-way lines, clearing all facilities to be installed in Public Utility Easements which parallel the street right-of-way.
78. Applications for Street Cut Permits must be approved by the Building Department prior to approval of improvement plans. All pavement replacement shall be in accordance with MAG Standard Detail 200, "T" Top Type.
79. Horizontal and vertical separation between water mains and services and other utilities (sewers, storm drains, dry utilities, other water mains and services) shall be in accordance with City of Phoenix Water Services Department, 2017 Design Standards Manual for Water and Wastewater Systems figures 7 and 8, respectively.
80. Horizontal and vertical separation between sewer mains and services and other utilities (water lines, storm drains, dry utilities, other sewer mains and services) shall be in accordance with City of Phoenix Water Services Department, 2017 Design Standards Manual for Water and Wastewater Systems figures 7 and 8, respectively.