



Site Plan Review

- Correct type of application for proposed project
- Summary letter included
- Commission approval required (CUP, HCR, East Austin Overlay)
- Zoning application needed (check conditional overlay)
- Legal description, and Land Status Report if applicable
- Legal description on plan matches tax certificate (unless tax exempt)
- Signature on application matches owner on tax certificate or warranty deed
- Boundary lines with bearings and dimensions
- All zoning districts on or near the site
- Existing land uses on adjoining tracts (& across street if compatibility)
- Site table indicating:
 - total area of site
 - FAR for each zoning district (except MF-1, MF-2, and MF-6)
 - impervious cover for each zoning district (sq. ft. and %)
 - building coverage for each zoning district (sq. ft. and %)
- Building table indicating:
 - proposed use and sq. ft. for each use
 - number of stories
 - actual height
 - total square footage for building
- Hill Country Roadway (if applicable):
 - slope map
 - table showing floor area & FAR by slope category (exc. SW Pkwy)
- Commercial Design Standards addressed
 - Correct roadway type
 - Building placement
 - Sidewalk layout correctly shown
 - Alternative equivalent compliance noted, if requested
- Compatibility elevations and cross-sections (if applicable)
- Demolitions referred to Historic Preservation Officer
- Airport Hazard Area
- Small project?
- Chapter 245 application included and signed
- Correct tax plats (not required for small projects) - current & to scale

Water Quality and Drainage Construction Review

- Engineer's seal (w/o qualifiers), signature & date on all unbound sheets & front page of
- bound documents containing engineering work
- Copy of recorded Final Plat (or concurrent submittal) or legal tract determination
- Engineer's project summary letter (signed, sealed and dated by P.E.)
- Discussion of compliance with 2-year peak flow control and water quality requirements
- Provision for flood control compliance or RSMP application package.
 - If interested in RSMP participation, a feasibility meeting must be held prior to completing the application. A complete RSMP application package (application form and all applicable attachments) must be provided at formal development application submittal in accordance with the outcome of the feasibility meeting. Visit www.austintexas.gov/RSMP for more information on program participation and requirements.
 - If a previous RSMP agreement has been made, application for the current development is still necessary. Provide the RSMP case number and associated site plan or subdivision number along with any supporting documentation, including, but not limited to:
 - signed formal RSMP agreement;
 - payment receipt;
 - signed conditional approval or approval letter;
 - drawings or exhibits showing location and extents of previous case in relation to current site plan.
 - If RSMP participation is approved, control of the 2-year flow is still required.
- Standard details from application packet
- Private and public roadways - layout and geometric data
- Floodplain delineations and drainage easements (or ROW) for fully developed condition flows, including defined channels on or near site
- Drainage area map (off-site and on-site) with flow patterns
- Drainage/2-year peak flow control/water quality study with hydrologic & hydraulic data for associated infrastructure
- Detailed drainage/2-year peak flow control/ water quality plan and physical data (existing and proposed) for associated infrastructure
- Access, operation and maintenance easements for flood, 2-year peak flow control and water quality controls
- Drainage layout map with drainage system layout
- Street and drainage plans with station and elevation
- Street and drainage profiles with support data
- Detention pond and standard details
- Applicable ECM R Table for water quality on water quality plan sheet

FEMA Floodplain Review

- Floodplain note on the cover page with correct FEMA FIRM Panel number and revision letter (suffix), as well as correct effective date

- Lowest Finished Floor Elevation (FFE) on all proposed structures in relation to Mean Sea Level (MSL) (regardless of whether or not proposed structure is in the floodplain) (see LDC 25-12-3 section 1612.4.1.)
- FEMA 100-year floodplain is clearly delineated
- If the topographic lines indicate a defined channel on or near the site with a drainage area greater than 64 acres, a floodplain study must be provided in a signed and sealed report.
- Delineate the floodplain on the site based on COA study or engineer's study for drainage area greater than 64 acres
- Show drainage easements to contain 100-year floodplain (either existing or to be dedicated)
- If there is parking in the fully developed 100-year floodplain, the average depth must be less than eight inches and the greatest depth no more than twelve inches per LDC 25-7-95
- Show any and all development in the fully developed floodplain (both 25-year and 100-year). If development in the fully developed floodplain is not in compliance with code requirements, a variance may be required. (LDC 25-7-92)

Environmental Review

- Chapter 245 determination
- Identify variances - 25-8-41, 42, 43
- Erosion sedimentation control plan – 25-8-181
- Tree protection plan – 25-8-604
- Tree Survey for trees over 8" – 25-8-181
- Slope map (except in urban watersheds) – 25-8-301
- Grading plan – 25-8-181
- Appendix Q1/Q2 – 25-8-62, 63
- Critical Environmental Features identified – 25-8-281
- All trenching in the Recharge Zone that is greater than (5') five feet deep requires inspection by a geologist, per the Void and Water Flow Mitigation Rule
- Environmental Resource Inventory (if required by code) – 25-8-121 Add the ERI if any of the following conditions exist:
 - Over the recharge zone
 - Over the contributing zone
 - With a gradient of more than 15%
 - In a floodplain
 - In a CWQZ
 - In a WQTZ

Please provide an ERI that meets the criteria described in LDC 25-8-121 to 125 and ECM 1.3.0

- Engineer's report - Application
- Landscape plans, Appendix C, notes and details
- Plat notes – ECM Appendix P
- CWQZ/WQTZ and 100 year floodplains delineated – 25-8-92, 93
- Watershed status and standard notes - Application
- Restrictive covenants - Application
- Storm Water Pollution Prevention Plan (if over 1 acre LOC and if infrastructure is proposed) – ECM 1.4.0

Transportation Review

- Driveway spacing:
 - adjacent driveways within 200 ft.
 - offsets from opposing driveways (undivided streets only)
- Parking table:
 - proposed use and sq. ft.
 - # of required and provided parking spaces
- Parking spaces:
 - width, depth, and angle of stalls
 - aisle width
- ADA accessible routes, ramps, and parking spaces
- Existing right-of-way width
- TXDOT station numbers (if access is proposed to State highway)
- Sidewalks, deferral note, or waiver request (except on certain State highways where sidewalks are not required).
- Traffic Impact Analysis (TIA) determination form and a TIA (report and technical addendum), if required. (See attachment at end of this document)
- Identify the Principal Street by roadway type, including internal circulation routes

Austin Water Utility General Requirements

- Add a copy of the W/WW Service Extension Request to the cover sheet. A completed and signed SER is not necessary for completeness check. However, an application should have been submitted.
- Pressure Zone and Service Extension Number are required on cover sheet.
- A general location map (Showing Grid number & Mapsco Page number)
- Standard and updated Austin Water Utility construction notes. (See attachment at end of this document)
- Size, pipe material and location of main with respect to the easements and rights-of way.
- Location, size and material of all existing water and wastewater mains, lines and services.
- Indicate wastewater flow direction on all plan views for both existing and proposed wastewater mains.
- Location, size and description of other utilities where they may conflict with water or wastewater mains or other service lines.
- If new force mains or lift stations are part of the plans, an additional set of the plans and an engineer's report, in accordance to chapter 217 of the TCEQ rules, shall be submitted to 625 E. 10th St., Suite 400, Austin, Texas. Review by the Facility Engineering Division will be concurrent to the Pipeline Engineering review.

AWU Water System Check List

All plan view drawings shall include all applicable items listed in the General Requirements above plus the following items.

- Stations of all proposed connections to existing or proposed water mains. Provide water ID numbers and water intersection numbers at all water connection points.

- Calculated design pressure at highest and lowest lot served and provide fire flow demand in gpm per the International Fire Code (Show information on Cover Sheet).
- Retaining walls, including geo-grid, straps, tie-backs and all other components.

All profile views shall be provided for all water mains (identify and public or private); it shall show all applicable items listed in the General Requirements plus the following items:

- The existing ground profile and proposed street finish grade or subgrade.
- Station numbers and elevations of all utility crossings.
- Identify pipe size, percent grade and pipe material to be used including ASTM and/or AWWA designation. If an alternate material is to be allowed, both should be listed (example “D.I. Class 350 or 250 or DR14 C900 PVC”).
- Station numbers and elevations for starting points, ending points, point of intersection, grade breaks, valves, fire hydrants, air release valves, pressure/flow regulating valves and at intermediate points every 100 feet.
- Retaining walls, including geo-grid, straps, tie-backs and all other components.

AWU Wastewater System Check List

All plan view drawings shall include all applicable items listed in the General Requirements mentioned above plus the following items:

- Station numbers at all proposed connections to existing or proposed wastewater mains.
- Provide manhole ID numbers and profile numbers or City Job numbers at all wastewater connection points.
- The location, alignment and structural features of the wastewater main, including manholes and concrete retards, if applicable.
- Station numbers for beginning points, ending points, manholes, clean-outs and other appurtenances.
- Location of all existing and proposed wastewater services, mains and manholes.
- Retaining walls, including geo-grid, straps, tie-backs and all other components.

A profile view shall be provided for all wastewater mains (identify and public or private) and shall include all applicable items listed in the general requirements above plus the following items:

- The existing ground profile and proposed street finish grade or subgrade or finished grade if not under pavement.
- Station numbers and elevations of all utility crossings.
- Identify the pipe size, percent grade and pipe material to be used including ASTM and/or AWWA designation. If an alternate material is to be allowed, both should be listed (example “DI class 350 or SDR 26 PVC”).
- Station numbers and elevations for starting points, ending points, manholes, clean-outs and at intermediate points every 100 feet.
- Elevations shall be indicated on the profile showing the finish floor elevations of all existing structures. If the structure has an active septic tank or other disposal system, the flow line elevation of the plumbing where it exits from the structure is to be indicated.
- If a lot or tract is vacant, side shots may be required from the middle of each lot to ensure gravity service is possible from the lot to the main.
- Design flows, minimum and maximum, and flow velocities at minimum and maximum dry weather flows.
- Retaining walls, including geo-grid, straps, tie-backs and all other components.
- Culverts, bridges and other drainage structures.

Austin Energy

- Show standard Austin Energy notes (See attachment at end of this document)
- Show existing electric facilities

Right-of-Way Management

- Required TCP Details: Appropriate 804s series
- Lane Closures and Flagging
- Sidewalk affected
- Devices
 - Cones
 - Barricades
 - Signs
- Work area protection
 - Temporary Paving (1100s4 series)
 - Steel Plates (or backfill each day)
 - Fencing
 - Material and Equipment Storage
- Covered Walkways for all overhead activities
- Stabilized Const. Entrance
- Detours
- General Notes

*If an engineered Traffic Control Plan (T.C.P.) is not provided, work specific details must be called out in the plan view.

- Other Considerations (FYI'S):
 - AULCC clearance for all utility extensions over 300' outside DAPCZ and over 25' in DAPCZ
 - Parking
 - Utilizing public parking (metered spaces)
 - Restoration
 - Asphalt/Pavement (1100s series details)
 - Sidewalk (sidewalk repair details)
 - Driveways (appropriate 400s series)
 - Curb Repair (appropriate 400s series)
 - Pipe installation and Trench Repair
 - Pavement Marking
- Show standard Austin Energy notes (See attachment at end of this document)

Characteristics of Permanent Encroachments

Cannot be removed within 90 days. Includes examples such as:

- Structural Improvements
- Parking Garages

- Enclosed Balconies
- Tunnels
- Sky Bridges
- Sub-surface facilities

Extension of superstructure. Includes examples such as:

- Cantilevered balcony
- Cantilevered walkway cover
- Cantilevered enclosed space
- Basements

* does not include “Juliet Balconies”, which are bolted into the side of a building and can be removed. However, removal of these requires subsequent safety remediation.

Removal of improvement conflicts with code or other regulatory requirement

- Handicap Ramps
- Stairs
- Fire Escapes (if the escape provides the only secondary means of egress)
- Building access features (if the removal of the feature would impair building access, or create a code or safety violation).
- Any improvement which prohibits future utility placement
- Private force mains
- Private utility conduits (perpendicular placement in ROW)

Austin Energy Standard Notes

- Austin Energy has the right to prune and/or remove trees, shrubbery and other obstructions to the extent necessary to keep the easements clear. Austin Energy will perform all tree work in compliance with Chapter 25-8, Subchapter B of the City of Austin Land Development Code.
- The owner/developer of this subdivision/lot shall provide Austin Energy with any easement and/or access required, in addition to those indicated, for the installation and ongoing maintenance of overhead and underground electric facilities. These easements and/or access are required to provide electric service to the building and will not be located so as to cause the site to be out of compliance with Chapter 25-8 of the City of Austin Land Development Code.
- The owner shall be responsible for installation of temporary erosion control, revegetation and tree protection. In addition, the owner shall be responsible for any initial tree pruning and tree removal that is within ten feet of the center line of the proposed overhead electrical facilities designed to provide electric service to this project. The owner shall include Austin Energy's work within the limits of construction for this project.
- The owner of the property is responsible for maintaining clearances required by the National Electric Safety Code, Occupational Safety and Health Administration (OSHA) regulations, City of Austin rules and regulations and Texas state laws pertaining to clearances when working in close proximity to overhead power lines and equipment. Austin Energy will not render electric service unless required clearances are maintained. All costs incurred because of failure to comply with the required clearances will be charged to the owner.

**CITY OF AUSTIN
TRAFFIC IMPACT ANALYSIS (TIA) DETERMINATION WORKSHEET**

APPLICANT MUST FILL IN WORKSHEET PRIOR TO SUBMITTING FOR TIA DETERMINATION

PROJECT NAME: _____

LOCATION: _____

APPLICANT: _____ TELEPHONE NO: _____

APPLICATION STATUS: DEVELOPMENT ASSESSMENT: _____ ZONING: _____ SITE PLAN: _____

EXISTING:		FOR OFFICE USE ONLY					
TRACT NUMBER	TRACT ACRES	BLDG SQ.FT.	ZONING	LAND USE	I.T.E CODE	TRIP RATE	TRIPS PER DAY

PROPOSED		FOR OFFICE USE ONLY					
TRACT NUMBER	TRACT ACRES	BLDG SQ.FT.	ZONING	LAND USE	I.T.E CODE	TRIP RATE	TRIPS PER DAY

ABUTTING ROADWAYS		FOR OFFICE USE ONLY		
STREET NAME		PROPOSED ACCESS?	PAVEMENT WIDTH	CLASSIFICATION

FOR OFFICE USE ONLY

- A traffic impact analysis is required. The consultant preparing the study must meet with a Transportation planner to discuss the scope and requirements of the study before beginning the study.
- A traffic impact analysis is NOT required. The traffic generated by the proposal does not exceed the thresholds established in the LDC.
- The traffic impact analysis has been waived for the following reason: _____
- A neighborhood traffic analysis will be performed by the City for this project. The applicant may have to collect existing traffic counts. See a Transportation planner for information.

REVIEWED BY: _____ DATE: _____

DISTRIBUTION: _____ FILE _____ CAP. METRO _____ TXDOT _____ TRANS. REV. _____ TRAVIS CO. _____ ATD _____ TOTAL COPIES: _____

NOTE: A TIA determination must be made prior to submittal of any zoning or site plan application, therefore, this completed and reviewed form MUST ACCOMPANY any subsequent application for the IDENTICAL project. CHANGES to the proposed project will REQUIRE a new TIA determination to be made.

AUSTIN WATER UTILITY GENERAL CONSTRUCTION NOTES

August 21, 2013

1. THE CITY STANDARD CONSTRUCTION SPECIFICATIONS CURRENT AT THE TIME OF BIDDING SHALL COVER MATERIAL AND METHODS USED TO DO THIS WORK.
2. CONTRACTOR MUST OBTAIN A STREET CUT PERMIT FROM WATERSHED PROTECTION AND DEVELOPMENT REVIEW DEPARTMENT, RIGHT OF WAY MANAGEMENT DIVISION BEFORE BEGINNING CONSTRUCTION WITHIN THE RIGHT-OF-WAY OF A PUBLIC STREET OR ALLEY.
3. AT LEAST 48 HOURS BEFORE BEGINNING ANY WATER AND WASTEWATER CONSTRUCTION IN PUBLIC R.O.W. OR PUBLIC EASEMENT, THE CONTRACTOR SHALL NOTIFY WATERSHED PROTECTION AND DEVELOPMENT REVIEW INSPECTION OR WATER AND WASTEWATER UTILITY TAPS INSPECTION AT THE NUMBER INDICATED ON THE PLANS BY THE AWU PLAN REVIEWER.
4. THE CONTRACTOR SHALL CONTACT THE AUSTIN AREA "ONE CALL" SYSTEM AT 1-800-344-8377 FOR EXISTING UTILITY LOCATIONS PRIOR TO ANY EXCAVATION IN ADVANCE OF CONSTRUCTION. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL UTILITIES TO BE EXTENDED, TIED TO, OR ALTERED, OR SUBJECT TO DAMAGE/INCONVENIENCE BY THE CONSTRUCTION OPERATIONS. THE CITY OF AUSTIN WATER AND WASTEWATER MAINTENANCE RESPONSIBILITY ENDS AT R.O.W./EASEMENT LINES.
5. NO OTHER UTILITY SERVICE/APPURTENANCES SHALL BE PLACED NEAR THE PROPERTY LINE, OR OTHER ASSIGNED LOCATION DESIGNATED FOR WATER AND WASTEWATER UTILITY SERVICE THAT WOULD INTERFERE WITH THE WATER AND WASTEWATER SERVICES.
6. THE CITY SPECIFICATION ITEM 509S WILL BE REQUIRED AS A MINIMUM TRENCH SAFETY MEASURE.
7. ALL MATERIALS TESTS, INCLUDING SOIL DENSITY TESTS AND DETAILED SOIL ANALYSES, SHALL BE CONDUCTED BY AN INDEPENDENT LABORATORY AND FUNDED BY THE OWNER IN ACCORDANCE WITH CITY STANDARD SPECIFICATION ITEM 1804S.04.
8. PRESSURE TAPS SHALL BE IN ACCORDANCE WITH CITY STANDARD SPECIFICATION ITEM 510.3(24). THE CONTRACTOR SHALL PERFORM EXCAVATION ETC., AND SHALL FURNISH, INSTALL AND AIR TEST THE SLEEVE AND VALVE. WHEN CONTRACTORS MAKE THE TAP A CITY INSPECTOR MUST BE PRESENT AND 2 WORKING DAYS (MIN.) NOTICE MUST BE GIVEN. "SIZE ON SIZE" TAPS WILL NOT BE PERMITTED, UNLESS, IT HAS BEEN DEMONSTRATED THAT A MORE ACCEPTABLE CONNECTION WOULD INVOLVE CONSIDERABLE HARDSHIP TO THE UTILITY SYSTEM. ALL TAPS SHALL BE MADE BY USE OF AN APPROVED FULL CIRCLE-GASKETED CAST IRON OR DUCTILE IRON TAPPING SLEEVE. CONCRETE BLOCKING SHALL BE PLACED UNDER ALL TAP SLEEVES PRIOR TO MAKING THE PRESSURE TAP AND THE USE OF PRECAST BLOCKS MAY BE USED TO HOLD THE TAP IN ITS CORRECT POSITION PRIOR TO BLOCKING. THE BLOCKING BEHIND AND UNDER THE TAP SHALL HAVE A MINIMUM OF 24 HOURS CURING TIME BEFORE THE VALVE CAN BE RE-OPENED FOR SERVICE FROM THAT TAP.
9. THRUST RESTRAINT SHALL BE IN ACCORDANCE WITH CITY STANDARD SPECIFICATION ITEM 510.3 (22).
10. ALL BRANCH CONNECTIONS SHALL HAVE THE VALVE BOLTED TO THE MAIN BY METHODS OF FLANGE OR SWIVEL TEES. FOSTER ADAPTORS MAY BE USED IN LIEU OF FLANGE OR SWIVEL TEES WHEN CALLED OUT ON THE PLANS BY THE DESIGN ENGINEER.
11. A). FIRE HYDRANTS SHALL BE SET IN ACCORDANCE WITH CITY STANDARD SPECIFICATION ITEM 511S.4 B). FIRE HYDRANTS SHALL BE PAINTED FLYNT ALUMINUM OR EQUAL.
12. WATER LINE TESTING AND STERILIZATION SHALL BE PERFORMED IN ACCORDANCE WITH CITY STANDARD SPECIFICATION ITEMS 510.3 (27)-(29). FORCE MAIN PRESSURE TESTING SHALL BE

CONDUCTED AND FALL UNDER THE SPECIFICATIONS AS WATER LINES (PRESSURE PIPE) OR AT THE PRESSURES SHOWN ON THE APPROVED PLANS.

13. ALL MATERIAL USED ON THIS PROJECT MUST BE LISTED ON THE STANDARD PRODUCTS LISTING. ANY MATERIAL NOT LISTED HAS TO GO THROUGH THE REVIEW OF THE STANDARDS COMMITTEE FOR REVIEW AND APPROVAL PRIOR TO START OF PROJECT. TESTING AND EVALUATION OF PRODUCTS ARE REQUIRED BEFORE APPROVAL WILL BE GIVEN ANY CONSIDERATION.
14. WHEN WATER SERVICES ARE DAMAGED AND THE SERVICE MATERIAL IS PE, THE LINE SHALL BE REPAIRED ONLY BY HEAT FUSION WELD OR REPLACED THE FULL LENGTH WITH TYPE K COPPER MATERIAL. ANY TIME PB IS DAMAGED OR TAMPERED WITH IN ANY WAY, THE SERVICE LINE SHALL BE REPLACED FULL LENGTH WITH TYPE K COPPER MATERIAL. NOTE: FULL LENGTH IS FROM CORPORATION STOP TO METER.
15. WHEN AN EXISTING WATERLINE SHUT OUT IS NECESSARY AND POSSIBLE, THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION INSPECTOR WHO WILL THEN NOTIFY THE AUSTIN WATER UTILITY DISPATCH AND THE AFFECTED CUSTOMERS A MINIMUM OF SEVENTY-TWO (72) HOURS IN ADVANCE.
16. THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION INSPECTOR SO THAT HE CAN NOTIFY THE AUSTIN WATER UTILITY AT 972--0000 AT A MINIMUM OF 72 HOURS PRIOR TO RELOCATING ANY DOMESTIC OR FIRE DEMAND WATER METERS. THE CONTRACTOR SHALL CAREFULLY REMOVE ALL METERS AND METERS BOXES THAT ARE INDICATED TO BE RELOCATED OR SALVAGED. THE CONTRACTOR SHALL INSTALL THE REMOVED METER OR CITY PROVIDED METER AT THE NEW LOCATION INDICATED ON THE CONTSTRUCTION PLANS.
17. ALL MANHOLES IN UNPAVED AREAS PROVIDING DIRECT ACCESS TO A WASTEWATER LINE SHALL BE WATERTIGHT AND BEAR THE WORDING AND INSIGNIA FOR THE CITY OF AUSTIN.
18. THE CONTRACTOR SHALL VERIFY ALL VERTICAL AND HORIZONTAL LOCATIONS OF EXISTING UTILITIES PRIOR TO STARTING ONSITE UTILITY WORK.
19. ALL RESPONSIBILITY FOR THE ADEQUACY OF THESE PLANS REMAINS WITH THE ENGINEER WHO PREPARED THEM. APPROVAL OF THESE PLANS BY THE CITY OF AUSTIN DOES NOT REMOVE THESE RESPONSIBILITIES.
20. REVIEW BY THE AUSTIN WATER UTILITY APPLIES ONLY TO FACILITIES WITHIN PUBLIC STREETS OR PUBLIC UTILITY EASEMENTS. ALL OTHER WATER AND WASTEWATER FACILITIES INSIDE PRIVATE PROPERTY ARE UNDER THE JURISDICTION OF BUILDING INSPECTION.
21. ALL WATER AND WASTEWATER MAINS SHALL BE INSTALLED IN ACCORDANCE WITH THE SEPARATION DISTANCES INDICATED IN CHAPTER 290 – DRINKING WATER STANDARDS, AND CHAPTER 217 – DESIGN CRITERIA FOR SEWAERAGE SYSTEMS, OF TCEQ RULES.
22. CONTRACTOR'S PERSONNEL THAT PERFORM BUTT FUSION AND ELECTROFUSION ON OR TO HDPE PIPE AND FITTINGS MUST HAVE CURRENT QUALIFICATION TRAINING CERTIFICATE ISSUED BY MCELROY OR COMPARABLE TRAINING PROGRAM.
23. SHOP DRAWINGS SHALL BE SUBMITTED FOR AWU APPROVAL FOR LARGE DIAMETER PRE-CAST MANHOLES, JUNCTION BOXES, WET WELLS, AND SIMILAR STRUCTURES. THE SHOP DRAWINGS SHALL INCLUDE FLOWLINE ELEVATIONS OF ALL INCOMING AND OUTGOING PIPES, ELEVATION OF TRANSITION FROM LARGE DIAMETER SECTIONS TO 48" ID SECTION, TOP OF MANHOLE ELEVATION, SURROUNDING GROUND ELEVATION, AS WELL AS SPECIAL CONSTRUCTION CONSIDERATIONS THAT ARE SPECIFIED IN THE CONTRACT DRAWINGS.
24. VALVE STEM EXTENSIONS SHALL CONSIST OF A SINGLE PIECE OF IRON ROD OF THE REQUIRED LENGTH WITH A SOCKET ON ONE END AND NUT ON THE OTHER.

25. ASBESTOS CONCRETE PIPE (AC PIPE) HAS BEEN INSTALLED IN THE PAST AS PART OF AUSTIN WATER UTILITY'S WATER DISTRIBUTION AND WASTEWATER COLLECTION SYSTEMS. AUSTIN WATER UTILITY'S INFRASTRUCTURE INCLUDES AC PIPE THAT IS CURRENTLY IN SERVICE AS WELL AS AC PIPE THAT HAS BEEN ABANDONED AND IS NO LONGER IN SERVICE. RECORD INFORMATION MAY NOT BE COMPLETE IN YOUR PROJECT AREA. CONTRACTORS AND SUBCONTRACTORS MUST BE ALERT TO THE PRESENCE AC PIPE AND BE KNOWLEDGABLE OF HOW TO IDENTIFY IT. DISTURBANCE, REMOVAL OR CUTTING OF ASBESTOS CONTAINING PIPE IS TO BE CONDUCTED IN ACCORDANCE WITH THE REQUIREMENTS OF TEXAS ADMINISTRATIVE CODE 25, SECTION 15, ARTICLE 4477-3A AND 29 CFR 1926.1101. REFERENCE STANDARD SPECIFICATION SECTION 01901. CONTACT THE CITY OF AUSTIN ASBESTOS MANAGER AT 512-974-7154 THIRTY (30) DAYS PRIOR TO THE PLANNED DISTURBANCE OF THE AC PIPE. ONLY LICENSED PERSONNEL ARE PERMITTED TO DISTURB, REMOVE, TRANSPORT AND DISPOSE OF AC PIPE.

DISCLAIMER: Due to the variety of applications and regulations being addressed during the completeness check review process, additional information may be required depending on the specifics of each application.