

GENERAL NOTES

1. ANY CHANGES FROM APPROVED PLANS SHALL BE SUBMITTED TO THE BULLHEAD CITY UTILITIES DEPARTMENT FOR WRITTEN APPROVAL PRIOR TO INSTALLATION.
2. CONTRACTOR SHALL KEEP A CLEAN, CURRENT SET OF CONTRACT DRAWINGS AS A RECORD OF THE LOCATION OF ALL WORK COMPLETED AS PART OF THE PROJECT. REVISIONS, ADDITIONS, AND DELETIONS SHALL BE ANNOTATED ON THE RECORD SET OF DRAWINGS IN RED.
3. CONTRACTOR SHALL ENSURE THAT SURVEY-GRADE GPS EQUIPMENT IS USED TO RECORD NORTHING, EASTING, AND ELEVATION DATA FOR ALL BURIED APPURTENANCES. FOR WATER MAINS, REUSE LINES AND WATER MAINS APPURTENANCES TO BE LOCATED INCLUDE VALVES, CROSSES, TEES, BENDS, REDUCERS, AND OTHER FITTINGS AS REQUIRED BY THE CONSTRUCTION INSPECTOR. FOR SEWER MAINS, APPURTENANCES INCLUDE THE RIM AND INVERT ELEVATIONS OF MANHOLES, CLEAN-OUTS AND OTHER FEATURES AS REQUIRED. GPS COORDINATES WILL UTILIZE THE NORTH AMERICAN DATUM (NAD) 1983, STATE PLANE ARIZONA WEST ZONE IN MOHAVE COUNTY. ALL UNITS WILL BE IN US FEET. PRIOR TO COMPLETION OF THE WORK, PROVIDE THE RED-LINED DRAWINGS TO THE ENGINEER OF RECORD FOR PREPARATION OF THE PROJECT RECORD DRAWINGS. FINAL COMPLETION WILL NOT BE MADE UNTIL THE ENGINEER OF RECORD RECEIVES SATISFACTORY, RED-LINED DRAWINGS.
4. CONTRACTOR SHALL NOTIFY THE CITY'S CONSTRUCTION INSPECTIONS DEPARTMENT 48 HOURS IN ADVANCE OF ANY CONSTRUCTION. USE THE CONTACT LIST IN THE CITY'S DEVELOPER GUIDE TO SCHEDULE INSPECTION (THE CITY'S GENERAL PHONE NUMBER IS 928-763-9400). WHEN APPOINTMENTS FOR INSPECTION ARE ARRANGED AT LEAST 48 HOURS IN ADVANCE, THE INSPECTION/TEST WILL BE CONDUCTED AS SCHEDULED, OTHERWISE THE REQUEST WILL BE SCHEDULED BASED ON AVAILABILITY.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING REQUIRED PERMITS AND INSPECTIONS FROM APPROPRIATE GOVERNMENTAL AGENCIES FOR ALL WORK IN PUBLIC RIGHTS-OF-WAY (CITY ENGINEERING DEPARTMENT, ETC.). INSPECTIONS BY THE CITY DO NOT RELIEVE CONTRACTOR OF RESPONSIBILITY TO OBTAIN REQUIRED INSPECTIONS FROM OTHER INTERESTED GOVERNMENTAL AGENCIES (BUILDING SAFETY, FIRE DISTRICT, ETC.).
6. ALL WORK AND TESTING SHALL BE IN ACCORDANCE WITH MARICOPA ASSOCIATION OF GOVERNMENTS (MAG) STANDARD SPECIFICATIONS AND DETAILS UNLESS OTHERWISE STATED ON PLANS.
7. ALL POTABLE WATERLINES AND FITTINGS SHALL HAVE NSF-PW SEAL. ALL MATERIALS AND PRODUCTS USED IN THE POTABLE WATER SYSTEM SHALL CONFORM TO NSF STANDARDS 60 AND 61 IN ACCORDANCE WITH AAC R18-4-213. ALL MATERIALS SHALL BE LEAD-FREE AS DEFINED IN AAC R18-4-101 AND R18-4-107.
8. PIPE SEPARATION: HORIZONTAL SEPARATION BETWEEN WATER AND SEWER LINES WILL BE A MINIMUM OF 6 FEET FROM OUTSIDE EDGE TO OUTSIDE EDGE OF PIPE. TWO FEET VERTICAL SEPARATION IS REQUIRED BETWEEN WATER LINES, STORM DRAINS, AND DRY UTILITIES.
9. VERTICAL AND HORIZONTAL SEPARATION OF PIPES AND PIPE CROSSINGS OF VARYING DEGREES OF WATER QUALITY SHALL BE IN ACCORDANCE WITH STATE & LOCAL GOVERNMENT REQUIREMENTS.
10. CONCRETE ENCASEMENT: ALL WATER AND SEWER ENCASEMENTS SHALL FOLLOW MAG STD. DET. 404-1. WHEN A WATER LINE MUST BE CONSTRUCTED UNDER A SEWER OR RECLAIMED WATER LINE, THE WATER LINE SHALL BE A MINIMUM OF 2' BELOW THE SEWER OR RECLAIMED WATER LINE AND EXTRA PROTECTION IS REQUIRED. PROTECTION FOR SEWER FORCE MAINS SHALL BE CONSTRUCTED WITH MECHANICAL JOINT OR RESTRAINED JOINT DUCTILE IRON PIPE FOR A DISTANCE OF TEN FEET ON BOTH SIDES OF THE WATER MAIN. A FULL LENGTH OF DIP WILL BE CENTERED OVER/UNDER THE WATER MAIN. WHEN DIP IS NOT USED FOR THE SEWER MAIN, BOTH THE WATER AND SEWER LINES WILL BE ENCASED IN CONCRETE FOR A LENGTH OF 10' ON BOTH SIDES OF THE CROSSING, PER MAG STD. DET. 404-2. REFER TO MAG STD. DET. 404-1 REGARDING FORCE MAINS. ALL ENCASEMENTS REQUIRE REBAR AND CLASS "C" CONCRETE. DIP WILL NOT BE ALLOWED IN GRAVITY SEWER MAINS.
11. VALVE SUPPORTS SHALL BE IN ACCORDANCE WITH MAG STD. DET. 301.
12. VALVE BOXES SHALL BE IN ACCORDANCE WITH MAG STD. DET. 391-1, TYPE C.
13. CONCRETE THRUST BLOCKS SHALL BE IN ACCORDANCE WITH MAG STD. DET. 380. THRUST BLOCKS ARE NOT ALLOWED IN RIGHT-OF-WAYS (ROWS). RESTRAINED JOINTS PER MAG STD. DET. 303-1 & 2 SHALL BE USED IN ROWS IN PLACE OF CONCRETE THRUST BLOCKS. 90-DEGREE FITTINGS ARE NOT ALLOWED IN ROW'S BUT MAY BE USED IN OTHER AREAS AS APPROVED BY THE CITY.
14. FIELD LOCK GASKETS ARE NOT ALLOWED.
15. DEAD END WATER MAINS SHALL HAVE A FIRE HYDRANT OR BLOW OFF IN ACCORDANCE WITH THE CITY'S STD. DET. 390-1 BUT NOT BOTH.
16. ANY SHUTDOWN TO THE CITY'S SYSTEM REQUIRES A MINIMUM OF 48 HOURS' NOTICE TO THE CITY'S INSPECTOR. SHUTDOWNS WILL ONLY BE ALLOWED ON TUESDAYS, WEDNESDAYS, AND THURSDAYS. TIME RESTRICTIONS MAY ALSO APPLY.
17. SOLID SLEEVES ARE NOT ALLOWED AS A REMEDY TO A FAILED PRESSURE TEST ON A NEW LINE.

Date:
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General Notes

Detail No.
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