

SANITARY SEWER NOTES: <p>1. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING REQUIRED PERMITS AND INSPECTIONS FROM APPROPRIATE GOVERNMENTAL AGENCIES FOR ALL WORK IN THE PUBLIC RIGHT-OF-WAY.</p> <p>2. ANY WORK PERFORMED WITHOUT THE APPROVAL OF THE CITY ENGINEER AND/OR ALL WORK AND MATERIALS NOT IN CONFORMANCE WITH THE SPECIFICATION IS SUBJECT TO REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE.</p> <p>3. THE CONTRACTOR SHALL UNCOVER ALL EXISTING UTILITY LINES BEING TIED TO AND VERIFY THEIR LOCATION PRIOR TO TRENCHING. THE CONTRACTOR SHALL LOCATE OR HAVE LOCATED ALL EXISTING UNDERGROUND PIPELINES, TELEPHONE AND ELECTRICAL CONDUIT AND STRUCTURES IN ADVANCE OF CONSTRUCTION AND SHALL OBSERVE ALL POSSIBLE PRECAUTIONS TO AVOID DAMAGE TO THE SAME. CALL ARIZONA 811 FOR FIELD LOCATION.</p> <p>4. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD BEFORE THE SANITARY SEWER FITTINGS ARE COVERED. FITTINGS SHALL NOT BE COVERED UNTIL SURVEYS HAVE BEEN COMPLETED. THE ENGINEER SHALL MAKE FIELD AS-BUILT MEASUREMENTS OF THE SANITARY SEWER WORK UPON NOTIFICATION BY THE SEWER CONTRACTOR THAT THE PIPE WORK IS COMPLETE AND READY FOR AS-BUILT SURVEY.</p> <p>5. AS-BUILT PLANS CERTIFIED FOR CORRECTNESS BY A PROFESSIONAL CIVIL ENGINEER OR LAND SURVEYOR IN THE STATE OF ARIZONA ARE REQUIRED PRIOR TO FINAL APPROVAL OF ALL WATER, SEWER, RECLAIMED WATER AND STORM WATER CONSTRUCTION.</p> <p>6. THE FOLLOWING DETAIL IS SPECIFICALLY NOT APPROVED: MAG STANDARD DETAIL 425 (24-INCH ALUMINUM, MANHOLE FRAME AND COVER).</p> <p>7. A TWO (2) INCH BY FOUR (4) INCH WOOD OR METAL POST PAINTED GREEN WITH BLACK LOT NUMBERS IS TO BE INSTALLED AT THE END OF ALL SEWER SERVICES.</p> <p>8. FOR RESIDENTIAL CONSTRUCTION, SEWER SERVICES SHALL BE SIX (6) FEET BELOW FINISH GRADE AT THE PUBLIC UTILITY EASEMENT AND FOUR (4) FEET BELOW THE FINISH GRADE AT FOUR (4) FEET PAST THE PUBLIC UTILITY EASEMENT.</p> <p>9. ANY MANHOLE IN A GUTTER LINE MUST BE WATERTIGHT PER MAG STANDARD DETAIL 424.</p> <p>10. THE MANHOLE COVERS SHALL READ "SURPRISE SANITARY SEWER" PER DETAIL 7-01.</p> <p>11. MANHOLES TEN (10) FEET OR DEEPER SHALL BE A MINIMUM OF FIVE (5) FEET IN DIAMETER.</p> <p>12. ALL MANHOLE SECTIONS SHALL BE SEALED WITH BOTH MASTIC (RAMNECK OR APPROVED EQUAL) AND GROUT PLACED INSIDE EACH MANHOLE SECTION KEY. THE INSIDE JOINTS SHALL BE GROUT-FINISHED.</p> <p>13. UPON THE COMPLETION OF THE SEWER, THE TOP EIGHT (8) FEET OF ALL MANHOLES ARE TO BE SPRAYED WITH INSECTICIDE BY A CERTIFIED COMPANY OR INDIVIDUAL FOR ROACH CONTROL. A VERIFICATION LETTER IS TO BE FURNISHED TO THE CITY OF SURPRISE.</p> <p>14. MARKING TAPE AND MARKER BALLS SHALL BE INSTALLED AT ALL SEWER LINE FITTINGS AND EVERY 100 FEET IF THE DISTANCE BETWEEN FITTINGS IS GREATER THAN 100 FEET PER DETAIL 7-03.</p> <p>15. SHORT TERM DEFLECTION TESTING SHALL BE PERFORMED ON ALL SEGMENTS OF PLASTIC SEWER PIPE EIGHT (8) INCHES IN DIAMETER AND LARGER AFTER COMPLETION OF BACKFILL AND COMPACTION, BUT PRIOR TO INSTALLATION OF FINISH SURFACE MATERIAL. A SHORT-TERM DEFLECTION IN EXCESS OF FIVE (5) PERCENT SHALL BE CONSIDERED UNSERVICEABLE AND SHALL BE REPAIRED OR REPLACED AND RETESTED.</p>												SANITARY SEWER NOTES (CONTINUED): <p>16. LOW-PRESSURE AIR TESTING IS REQUIRED FOR ONE HUNDRED (100) PERCENT OF THE LINE INSTALLATION PER MAG SPECIFICATION 615.11.</p> <p>17. ONE HUNDRED (100) PERCENT OF BRANCH, MAIN, AND TRUNK SEWER LINES ARE TO BE INSPECTED BY VIDEO CAMERA. TWO COPIES OF COMPLETED DVD ALONG WITH OPERATOR NOTES ARE TO BE FURNISHED TO THE CITY OF SURPRISE UPON COMPLETION OF THE FIRST VIDEO. IF THERE ARE NEGATIVE RESULTS THEN THE Affected SEWER LINES WILL BE REPAIRED AND REVIDEOED ACCORDINGLY.</p> <p>18. ALL SEWER MANHOLES SHALL BE TESTED IN ACCORDANCE WITH ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY REQUIREMENTS, USING THE WATER TIGHTNESS OR AIR PRESSURE METHODS AS PUBLISHED IN TITLE 18 ENVIRONMENTAL QUALITY.</p> <p>19. THE MINIMUM COVER FOR SEWER MAIN PIPES SHALL BE SIX (6) FEET FROM TOP OF PIPE TO FINISHED GRADE. SEWER PIPE BEDDING SHALL BE ONE HUNDRED (100) PERCENT ABC MATERIAL, PER MAG SPECIFICATIONS, PLACED AND COMPACTED FROM FOUR (4) INCHES BELOW PIPE TO TWELVE (12) INCHES ABOVE PIPE. FOR SEWER LINE CONSTRUCTION THE PIPE BEDDING SHALL BE PLACED IN TWO LIFTS PER MAG SPECIFICATIONS.</p> <p>20. PIPE BEDDING, BACKFILLING AND COMPACTION SHALL BE PER MAG STANDARD DETAIL 200-1.</p> <p>21. SEWER LINES SHALL CONSIST OF POLYVINYL CHLORIDE (PVC) SOLID WALL PLASTIC SEWER PIPE AND SHALL CONFORM TO THE REQUIREMENTS OF ASTM D-3034, SDR-35 OR C900.</p>																							
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DATE REVISED: 1/2022			SURPRISE ARIZONA			SANITARY SEWER NOTES			DETAIL NO: 2-07			DATE REVISED: 1/2022			SURPRISE ARIZONA			SANITARY SEWER NOTES			DETAIL NO: 2-07			DATE REVISED: 1/2022			SURPRISE ARIZONA			SEWER LINE MARKER BALL AND MARKING TAPE			DETAIL NO: 7-03		
NOTES: <p>1. ELECTRONIC MARKER SHALL BE A 3M MODEL 1424-XV/D 14" DIAMETER SELF LEVELING MARKER BALL GREEN IN COLOR OR APPROVED EQUAL AS REQUIRED BY THE LOCAL AGENCY.</p> <p>2. MARKER SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S DIRECTIONS. 2' BACK FROM THE END OF THE SEWER SERVICE STUB AND CINCH TIED TO PIPE OR ABOVE PIPE AS REQUIRED BY LOCAL AGENCY. AN ADDITIONAL MARKER SHALL BE INSTALLED AT EACH SERVICE STUB BEND.</p> <p>3. ELECTRONIC MARKER SHALL BE RESTORED BY CONTRACTOR IF DISTURBED WHEN PRIVATE SERVICE LINE CONNECTION IS INSTALLED.</p> <p>4. MARKER SHALL BE USED IN ADDITION TO A 2"x4" METAL STUD.</p> <p>5. CONSTRUCTION DETAIL APPLIES WHERE CONTRACTOR BUILDS HOUSE CONNECTION, TAP EXTENDS TO PROPERTY LINE IN ALLEYS OR STREETS OR TO EASEMENT LINE.</p> <p>6. SIZE OF TAP SHALL BE DESIGNATED ON PLANS.</p> <p>7. CONSTRUCT TAP AT MINIMUM SLOPE IF COVER WILL BE LESS THAN 5' AT PROPERTY LINE.</p> <p>8. ALL FITTINGS SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D-2321. THE CONTRACTOR MAY VARY FROM THE DRAWING TO USE THE APPROPRIATE WYES, TEE-WYES AND BENDS TO ENSURE NO MISALIGNMENT OF THE PIPE AND FITTINGS. BLOCK OR BRACE FITTINGS JOINTS TO ENSURE ZERO DEGREES ANGULAR JOINT DEFLECTION.</p> <p>9. END OF TAP TO BE SEALED AND MARKED AS NOTED.</p>																																			
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