

CONSTRUCTION NOTES:

- 1 INSTALL GATE VALVE
  - 2 INSTALL WATERLINE PER DETAIL 1 ON SHEET CU500
  - 3 INSTALL TYLER UNION USA TEE OR APPROVED EQUAL AND PROVIDE THRUST BLOCK OR RESTRAINED JOINTS PER DETAIL 3 AND 4 ON SHEET CU500
  - 4 INSTALL 90° BEND TYLER UNION MADE IN THE USA AND PROVIDE THRUST BLOCK OR RESTRAINED JOINTS PER DETAIL 3 AND 4 ON SHEET CU500
  - 5 INSTALL 45° BEND TYLER UNION MADE IN THE USA AND PROVIDE THRUST BLOCK OR RESTRAINED JOINTS PER DETAIL 3 AND 4 ON SHEET CU500
  - 6 INSTALL FIRE HYDRANT PER DETAIL 2 ON SHEET CU500
  - 7 INSTALL WATER VAULT PER DETAIL 8 ON SHEET CU501
  - 8 REMOVE EXISTING PIPE AFTER LOOP IS COMPLETED AND EXISTING HYDRANT CAN REMAIN IN SERVICE
  - 9 REMOVE EXISTING STRUCTURE
  - 10 REPLACE EXISTING CURB & GUTTER AND INSTALL PER DETAIL 6 ON SHEET CU500
  - 11 REPLACE EXISTING SIDEWALK AND INSTALL PER DETAIL 7 ON SHEET CU500
  - 12 PROTECT EXISTING STRUCTURE IN PLACE
  - 13 ABANDON EXISTING PIPE IN PLACE
  - 14 RELOCATE EXISTING FIRE HYDRANT
  - 15 REPLACE SOD AND IRRIGATION TO EXISTING CONDITION
  - 16 SAWCUT ASPHALT AND REPLACE ASPHALT TO MATCH EXISTING SECTION PER TRENCH DETAIL 1 ON SHEET CU500
- A PROJECT SHALL COMPLY WITH ALL WHITE CITY WATER IMPROVEMENT DISTRICT SPECIFICATIONS AND REQUIREMENTS.
- B ALL WATERLINES SHALL BE DIP UNLESS OTHERWISE NOTED ON PLANS

GENERAL NOTES:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE FOLLOWING:
  - (A) OBTAINING ALL REQUIRED PERMITS FROM THE CITY OR REGULATORY AUTHORITIES AT THE CONTRACTOR'S COST INCLUDING PERMITS REQUIRED FOR WORK WITHIN THE PUBLIC RIGHT-OF-WAY.
  - (B) RESTORATION OF ANY EXISTING IMPROVEMENTS INCLUDING (BUT NOT LIMITED TO) FENCES, SOD, LANDSCAPING, PAVEMENT, SPRINKLER SYSTEMS.
  - (C) ALL PAVEMENT RESTORATION WILL MATCH EXISTING THICKNESS AND BE BUILT IN ACCORDANCE TO WHITE CITY STANDARDS.
  - (D) VERIFICATION AND PROTECTION OF ALL EXISTING UTILITIES WITHIN THE LIMITS OF CONSTRUCTION.
  - (E) PROVIDING AS-BUILT DRAWINGS TO DISTRICT ENGINEER.

(F) ALL PERMITTING, DEVELOPMENT, LOCATION, CONNECTION, AND INSPECTION.

(G) SCHEDULING ALL REQUIRED INSPECTION.

**CONSTRUCTION NOTES:**

1. ALL CONSTRUCTION SHALL COMPLY TO APWA AND WHITE CITY WATER IMPROVEMENT DISTRICTS SPECIFICATION AND REQUIREMENTS.
2. THE EXISTING WATER DISTRIBUTION SHALL REMAIN IN SERVICE DURING CONSTRUCTION.
3. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO LOCATE AND AVOID ANY/ALL UTILITIES. UTILITIES SHOWN ON PLANS ARE FOR INFORMATION PURPOSES ONLY
4. REFER TO OSHA, APWA, WHITE CITY WATER IMPROVEMENT DISTRICT REQUIREMENTS FOR TRENCH DETAILS. SEE STANDARD DETAIL WCS-03
5. CONTRACTOR SHALL CUT ALL TRENCHES AND PROVIDE CLEAN EDGE FOR PAVING.
6. TRENCH BACKFILL SHALL BE PER APWA SECTION 310513.
7. MINIMUM TRENCH WIDTH SHALL BE EQUAL TO OUTSIDE OF PIPE PLUS 9 INCHES EACH SIDE OF PIPE. PER DETAIL WCS-03
8. CONTRACTOR SHALL USE EITHER THRUST BLOCKS OR MEGALUG RESTRAINING SYSTEM FOR THE ENTIRE PROJECT. PER DETAIL WCS-06 or WCS-07 SHEET CU500

**WATER GENERAL NOTES:**

1. ALL MATERIALS DELIVERED TO AND USED AT THE JOB SITE ARE SUBJECT TO APPROVAL FROM THE ENGINEER AND WHITE CITY WATER IMPROVEMENT DISTRICT
2. DROPPING PIPE DURING UNLOADING AND INSTALLATION WILL NOT BE ALLOWED. PIPE WILL BE INSPECTED IN THE FIELD BEFORE AND AFTER LAYING AND ANY PIPE THAT IS REJECTED WILL BE REPLACED AT THE FULL COST OF THE CONTRACTOR.
3. CONTRACTOR SHALL FIELD VERIFY ELEVATIONS OF WATER CONNECTION POINTS PRIOR TO INSTALLATION OF ANY NEW PIPE
4. CONTRACTOR SHALL LOCATE EXISTING VALVES PRIOR TO CONNECTION WITH THE EXISTING SYSTEM, BUT SHALL NOT OPERATE ANY VALVE WITHOUT PERMISSION FROM WHITE CITY WATER IMPROVEMENT DISTRICT.
5. ALL WATER MAINS, VALVES, FIRE HYDRANTS, SERVICES, AND APPURTENANCES SHALL BE INSTALLED, TESTED, AND APPROVED PRIOR TO PAVING.
6. ALL WATERLINE PIPING SHALL BE NEW DIP. ALL PIPE SHALL BE WRAPPED IN AN 8 MIL POLY WRAP FITTINGS WILL BE WRAPPED USING 8 MIL POLY TAPE. GREASE ALL BOLTS.
7. ALL PIPE SHALL MEET NSF/ANSI 61 CERTIFICATION
8. FLANGE CONNECTIONS BETWEEN VALVES AND FITTINGS FOR ALL CULINARY WATERLINES.
9. AIR RELIEF/VACUUM VALVES SHALL BE INSTALLED AT HIGHPOINT LOCATIONS.
10. PROVIDE A MINIMUM OF 48 INCHES OF COVER OVER WATER MAINS.
11. WATER MAINS SHALL BE SEPARATED BY A MINIMUM OF 10 FEET EDGE TO EDGE HORIZONTALLY FROM SANITARY SEWERS.
12. WATER MAINS SHALL CROSS SANITARY SEWER LINES WITH A MINIMUM VERTICAL CLEARANCE OF 18 INCHES AND AS CLOSE AS POSSIBLE TO A 90 DEGREE ANGLE.
13. ALL DUCTILE AND GRAY IRON FITTINGS SHALL BE MANUFACTURED IN ACCORDANCE WITH THE FOLLOWING AWWA STANDARDS: C-104 CEMENT MORTAR LINING, C-110 GRAY-IRON AND DUCTILE IRON JOINTS. ALL FITTINGS SHALL BE SEAL COATED WITH BITUMINOUS MATERIAL. ALL FITTINGS SHALL BE 350 PSI MINIMUM PRESSURE RATING.

14. ALL INSTALLATION AND MATERIALS SHALL, AT A MINIMUM, CONFORM TO APWA AND WHITE CITY WATER IMPROVEMENT DISTRICT SPECIFICATIONS, AND PLANS.
15. THE CONTRACTOR SHALL OBTAIN A PERMIT FOR UTILITY CONSTRUCTION AT LEAST 48 HOURS PRIOR TO CONSTRUCTION.
16. CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL UTILITIES AND NOTIFYING THE APPROPRIATE UTILITY COMPANY PRIOR TO BEGINNING CONSTRUCTION.
17. TRENCH EXCAVATIONS WITHIN EXISTING RIGHT-OF-WAYS SHALL BE BACKFILLED WITH IMPORT MATERIALS CONSISTENT WITH WHITE CITY STANDARD PLANS AND SPECIFICATIONS FOR BACKFILL MATERIALS. BACKFILL MATERIAL ABOVE THE PIPE ZONE SHALL BE GRANULAR BACKFILL BORROW PER APWA SECTION 31 05 13-2.2A GRANULAR BORROW (AASHTO TYPE A-1-A).
18. COMPACTION TESTING FOR ALL TRENCH EXCAVATIONS WILL BE REQUIRED AT EACH LIFT IN ACCORDANCE WITH APWA STANDARDS AND SPECIFICATIONS.
19. CONTRACTOR SHALL COORDINATE WITH ALL UTILITY COMPANIES FOR INSTALLATION REQUIREMENTS AND SPECIFICATIONS.
20. ALL NECESSARY INSPECTIONS AND/OR CERTIFICATIONS REQUIRED BY CODES AND/OR UTILITY SERVICE COMPANIES SHALL BE PERFORMED PRIOR THE FINAL CONNECTION OF SERVICE.
21. ALL EXISTING UTILITIES ARE SHOWN IN APPROXIMATE LOCATIONS ONLY AND ARE BASED ON UTILITY MAPS, AND FIELD SURVEY. CONTRACTOR SHALL NOTIFY BLUE STAKES AT 801-208-2100 48 HOURS IN ADVANCE OF ANY CONSTRUCTION. CONTRACTOR SHALL FIELD VERIFY ALL UTILITY LOCATIONS PRIOR TO CONSTRUCTION.
22. UNDERGROUND UTILITIES SHALL BE INSTALLED, INSPECTED AND APPROVED BEFORE BACKFILLING.
23. CONTRACTOR SHALL NOTIFY WHITE CITY WATER IMPROVEMENT DISTRICT ENGINEERING INSPECTORS 72 HOURS BEFORE CONNECTING TO ANY EXISTING UTILITY.
24. EXISTING UTILITIES AND CONNECTIONS POINTS AND ELEVATIONS SHALL BE VERIFIED IN FIELD PRIOR TO INSTALLATION OF ANY NEW LINES.
25. WATERLINES SHALL BE TESTED AND DISINFECTED IN ACCORDANCE WITH THE WHITE CITY WATER IMPROVEMENT DISTRICT STANDARDS, SPECIFICATIONS, AND PLANS.
26. ALL CONCRETE FOR ENCASEMENTS SHALL HAVE A MINIMUM 28 DAY COMPRESSION STRENGTH AT 4000 PSI.
27. CONTRACTOR SHALL NOTIFY ENGINEER OF ALL UTILITY CONFLICTS UPON DISCOVERY.
28. ALL WATERLINES SHALL BE INSTALLED WITH TRACER WIRE PER WHITE CITY WATER IMPROVEMENT DISTRICT REQUIREMENT SECTION 5.2.9
29. CONTRACTOR WILL MATCH THE EXISTING ROAD SECTION ON ALL PAVEMENT REPAIR.
30. COORDINATE WITH CANYONS SCHOOL DISTRICT FOR TIMING OF ALL WATER SHUTDOWNS.