

Special Specification 7247

Sanitary Sewer Lines, Water Mains and Appurtenances



1. DESCRIPTION

Furnish and install all materials, equipment, and labor listed in the Special Specification "Sanitary Sewer Lines, Water Mains and Appurtenances" herein known as the Document and all materials shown on the plans and per Bryan/College Station (B/CS) Unified Design Guidelines.

2. MATERIALS

Install piping systems using the materials designated on the plans and in details shown for each particular system. Furnish materials so designated in accordance with the following. All material requirements of the attached Document, and

- Item 104, "Removing Concrete"
- Item 351, "Flexible Pavement Structure Repair"
- Item 402, "Trench Excavation Protection"
- Item 529, "Concrete Curb, Gutter, and Combined Curb and Gutter"
- Item 530, "Intersections, Driveways, and Turnouts."

3. CONSTRUCTION

Perform work in a manner consistent with the Document and the following Specifications, Addendums and Standards necessary to perform the work:

- 3.1. The applicable Bryan/College Station Unified Technical Specifications (2012) (bcsunited.net)

Generals

- SPEC 03 30 01 CONCRETE BLOCKING OR ANCHORAGE
- SPEC 03 34 00 FLOWABLE FILL EXISTING LINE
- SPEC 04 05 12 MORTAR AND GROUT
- SPEC 09 03 12 CONDUCTIVE TRACE WIRE FOR WATER PIPE AND SEWER FORCE MAIN INSTALLATION
- SPEC 31 23 23.53 CEMENT STABILIZED SAND BACKFILL
- SPEC 31 23 33 EXCAVATING, TRENCHING, AND BACKFILLING
- SPEC 31 78 00 PIPE BORING, JACKING, TUNNELING AND ENCASEMENT
- SPEC 33 05 01 POLYVINYLCHLORIDE PIPE AND FITTINGS
- SPEC 33 05 02 DUCTILE IRON PIPE

Water

- SPEC 33 11 13.1 WATER MAIN CONSTRUCTION
- SPEC 33 12 13 WATER SERVICES
- SPEC 33 12 16 MAIN LINE VALVES
- SPEC 33 12 19 FIRE HYDRANTS
- SPEC 33 13 00 DISINFECTION OF WATER LINES
- SPEC 33 13 10 HYDROSTATIC TESTS

Sewer

- SPEC 33 01 30.13 TESTING FOR SANITARY SEWAGE GRAVITY SYSTEM
- SPEC 33 31 13 SANITARY SEWER SYSTEM
- SPEC 33 39 13 MANHOLES

- 3.2. B/CS Standard Construction Details can be obtained at bcsunited.net and are included in the plans.
- 3.3. Inspection. The sanitary sewer and water mains and appurtenances will be inspected by a representative of the City of College Station. These representatives' decision of acceptability of the installation will be final.
- 3.4. Abandonment will consist of either grout-filling or removal of the water or sanitary sewer pipe designated for abandonment.
- 3.5. All construction of water and sanitary sewer pipe will include structural fill except where noted on the plans.
- 3.6. All open cut construction within asphalt pavement for the sanitary sewer line will be repaired per BCS standard ST4-01 and is subsidiary to the cost of sanitary sewer pipe.
- 3.7. Sewer bypass is subsidiary to installation of sewer lines and is required during construction of the sewer line. Submit a bypass flow plan to the City of College Station and coordinate with College Station Utilities prior to construction.
- 3.8. Cement stabilized sand is subsidiary to installation of water and sewer lines.
- 3.9. All construction includes structural fill unless otherwise notes on the plans.

4. MEASUREMENT

This Item will be measured as follows and as explicitly detailed in the Document:

Table1
Pay Items

Description Code	Description	Unit
7247 6001	ABND WTR PIPE (ALL SIZES)	LF
7247 6002	ABND SAN SWR PIPE (6")	LF
7247 6003	REM FIRE HYDRANT ASSM	EA
7247 6004	REM WTR VALVES (ALL SIZES)	EA
7247 6005	WTR(PVC)(DR14)(C900)(6")(OPN CUT)	LF
7247 6006	WTR(PVC)(DR14)(C900)(8")(BORE)	LF
7247 6007	WTR(PVC)(DR14)(C900)(8")(OPN CUT)	LF
7247 6008	WTR(PVC)(DR14)(C900)(8")(OC)NONSTR FIL	LF
7247 6009	WTR(PVC)(DR14)(C900)(12")(OPN CUT)	LF
7247 6010	WTR(DIP)(C151)(350 PSI)(12")(OPN CUT)	LF
7247 6011	CASING(STL)(3/8" THICK)(16")(BORE)	LF
7247 6012	SHORT WTR SERV (TY K COPPER)(1")	EA
7247 6013	SHORT WTR SERV (TY K COPPER)(1.5")	EA
7247 6014	REM/REPL WTR METER	EA
7247 6015	FIRE HYDRANT ASSEM	EA
7247 6016	AIR RELEASE VALVE	EA
7247 6017	GATE VALVE & BOX(COMPL)(WTR)(8")	EA
7247 6018	GATE VALVE & BOX(COMPL)(WTR)(12")	EA
7247 6019	REDUCER TEE (WTR)(8" X 6")	EA
7247 6020	REDUCER TEE (WTR)(12" X 6")	EA
7247 6021	REDUCER TEE (WTR)(12" X 8")	EA
7247 6022	45 DEG BEND (WTR)(6")	EA
7247 6023	45 DEG BEND (WTR)(8")	EA
7247 6024	11.25 DEG BEND (WTR)(12")	EA
7247 6025	22.5 DEG BEND (WTR)(12")	EA
7247 6026	45 DEG BEND (WTR)(12")	EA
7247 6027	SAN SEWER(PVC)(D3034)(SDR-26)(6")	LF
7247 6028	SAN SEWER(PVC)(D2241)(PRES RATED)(6")	LF
7247 6029	STND MAN (SAN SEWER)(4' DIA)	EA

5. PAYMENT

The work performed with this Item and measured as provided under "Measurement" will be paid for at the unit price bid for the various items of work. These prices will be full compensation for furnishing all labor, tools, equipment and incidentals necessary to satisfactorily complete the work prescribed in the Document and as detailed on the plans.