

ITEM	UNIT	QUANTITY
16" C905 CLASS 200 PVC WATERLINE	LF	2340
26" STEEL ENCASEMENT BY BORE	LF	54
16" BUTTERFLY VALVE	EA	2
16" PLUG	EA	1
12" PLUG	EA	1
12" X 12" TAPPING SLEEVE AND VALVE	EA	1
12" C900 CLASS 200 PVC WATERLINE	LF	20
12" GATE VALVE	EA	2
8" C900 CLASS 200 PVC WATERLINE	LF	11
8" GATE VALVE	EA	1
8" PLUG	EA	1
FIRE HYDRANT ASSEMBLY	EA	1
FITTINGS	TONS	2.3
1" SERVICE LINE	EA	5
2" SERVICE LINE	EA	1
4" SERVICE LINE	EA	1
4" GATE VALVE	EA	1
REMOVE AND REPLACE ASPHALT	SY	44.1
REMOVE AND RELPLACE CONCRETE	SY	15.2
CONNECT TO EXISTING 12" WL	EA	1
CONNECT TO EXISTING 8" WL	EA	1

GENERAL NOTES:

- THESE PLANS DO NOT EXTEND TO, OR INCLUDE, DESIGNS OR SYSTEMS PERTAINING TO THE SAFETY OF THE CONSTRUCTION, CONTRACTOR, EMPLOYEES, OR ANY OTHER PERSON. THE CONTRACTOR SHALL PREPARE, OBTAIN, AND MAINTAIN, THE APPROPRIATE SAFETY SYSTEMS.
- THE CONTRACTOR IS RESPONSIBLE FOR INSURING A SAFE WORK SITE. A TRENCH SAFETY PLAN MUST BE PREPARED AND SEALED BY A REGISTERED PROFESSIONAL ENGINEER AND SUBMITTED TO THE CITY PRIOR TO CONSTRUCTION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO INSURE THAT THE PLAN IS FOLLOWED. TRENCH SAFETY IS NOT A PAY ITEM AND WILL BE CONSIDERED SUBSIDIARY TO THE WORK.

EXISTING UTILITIES:

- THE LOCATION AND DEPTH OF ALL EXISTING UTILITIES SHOWN ON THE PLAN ARE APPROXIMATE AND THERE MAY BE UNKNOWN UTILITIES EXISTING THAT ARE NOT SHOWN ON THE PLANS THAT SHOULD BE VERIFIED AND PROTECTED BY THE CONTRACTOR PRIOR TO AND DURING CONSTRUCTION.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROTECT ALL UTILITIES ENCOUNTERED DURING CONSTRUCTION OPERATIONS. ANY DAMAGE TO UTILITIES DONE BY THE CONTRACTOR SHALL BE REPAIRED TO THE SATISFACTION OF THE UTILITY OWNER AND THE CITY, AT THE ENTIRE EXPENSE OF THE CONTRACTOR.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY ALL UTILITY COMPANIES AND VERIFY LOCATION OF ALL UTILITIES PRIOR TO START OF CONSTRUCTION AND PROTECT ALL UNDERGROUND AND OVERHEAD UTILITIES AS WELL AS ALL UTILITY APPURTENANCES.

THRUST BLOCKING:


- ALL PIPE FITTINGS MUST BE RESTRAINED WITH MEGA-LUG RESTRAINTS OR EQUAL AND THRUST BLOCKED.
- ALL PIPE JOINTS AND FITTINGS MUST BE RESTRAINED WITH MEGA-LUG RESTRAINTS OR EQUAL AND THRUST BLOCKED AT ALL HORIZONTAL AND VERTICAL CHANGES IN PIPE DIRECTION.
- ALL VALVES TO BE THRUST BLOCKED.
- NO EXTRA PAY ITEM FOR RESTRAINED JOINTS, MEGA-LUG OR APPROVED EQUAL RESTRAINED JOINTS, OR FOR THRUST BLOCKING.

CONSTRUCTION

- NO TREES SHALL BE REMOVED, OR CUT, EXCEPT ON SPECIFIC APPROVAL BY THE CITY.
- THE CONTRACTOR SHALL REMOVE AND REPLACE ALL EXISTING SHRUBS OR BUSHES IN CONFLICT WITH THE PROPOSED FACILITIES AT NO EXTRA PAY.
- ALL FENCES, SIGNS, PROPERTY MONUMENTS, WATER AND SEWER SERVICES, OR CULVERTS REMOVED OR DAMAGED DURING CONSTRUCTION WILL BE REPLACED OR REPAIRED TO AS GOOD AS, OR BETTER, CONDITION AND TO THE SATISFACTION OF THE CITY.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY DAMAGE CAUSED BY THE CONSTRUCTION OUTSIDE THE DESIGNATED WORK AREA WITH EQUAL OR BETTER QUALITY MATERIAL AT THE CONTRACTOR'S EXPENSE.
- ALL PHASES OF CONSTRUCTION ARE TO BE COORDINATED WITH THE CITY AND THE PROPERTY OWNERS IN ORDER TO MINIMIZE CONFLICTS.
- THE CONTRACTOR MUST NOTIFY EACH PROPERTY OWNER 48 HOURS PRIOR TO SHUTTING OFF WATER FOR CONNECTION TO A NEW MAIN. THIS WORK MAY ALSO NEED TO BE PERFORMED IN OFF PEAK HOURS IN ORDER TO MINIMIZE DISRUPTION TO BUSINESSES.
- THE CONTRACTOR SHALL MAINTAIN THE EXISTING WATER MAINS DURING ALL PHASES OF CONSTRUCTION. ALL LEAKS CAUSED BY THE CONTRACTOR SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE AND TO THE SATISFACTION OF THE CITY.
- ALL WATER MAINS, VALVES, FITTINGS, ETC. MADE WITH DUCTILE IRON OR FERROUS METAL SHALL BE WRAPPED WITH 8 MIL. POLYWRAP.
- ALL GATE VALVES SHALL HAVE NON-RISING STEMS AND RESILIENT SEALED WEDGE.
- THE MAXIMUM PIPE DEFLECTION OF PIPE AND PIPE JOINTS SHALL NOT EXCEED THAT RECOMMENDED BY THE PIPE MANUFACTURER. IF IT IS NECESSARY TO DEFLECT THE PIPE, THE CONTRACTOR SHALL PROVIDE FITTINGS IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS, AT NO EXTRA PAY.
- FIELD ADJUSTMENTS MAY BE NECESSARY AND SHALL BE CARRIED OUT AS DIRECTED BY THE CITY ENGINEER AT NO EXTRA PAY.
- CONSTRUCTION DEWATERING, IF ANY, IS INCIDENTAL TO THE PROJECT.

STORM WATER POLLUTION PREVENTION:

- UNLESS OTHERWISE NOTED, ALL STORM WATER POLLUTION PREVENTION MEASURES SHALL CONFORM TO THE CITY AND/OR N.C.T.C.O.G'S STORM WATER QUALITY BEST MANAGEMENT PRACTICES FOR CONSTRUCTION ACTIVITIES, LATEST EDITION OR AMENDMENTS, FOR COMPLIANCE WITH NPDES REQUIREMENTS.
- CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND MAINTAINING SURFACE DRAINAGE AND EROSION CONTROL FACILITIES ON SITE DURING CONSTRUCTION.
- THE CONTRACTOR IS RESPONSIBLE FOR KEEPING STREETS AND SIDEWALKS ADJACENT TO THE PROJECT FREE OF MUD AND DEBRIS AT ALL TIMES.
- CONTRACTOR IS TO LEVEL WASHES, RUTS, DEPRESSIONS, AND MOUNDS TO GIVE AREA A SMOOTH FINISH.
- CONTRACTOR SHALL FILL ALL VOIDS UNDER EXISTING PAVEMENT IF DISTURBED WHEN INSTALLING THE NEW MAIN (NO PAY ITEM). ALSO, ALL DITCH LINES MUST BE FILLED AT THE END OF EACH DAY'S WORK.
- ALL SALVAGEABLE WATER LINE MATERIALS SHALL BE DELIVERED TO THE CITY OF ROCKWALL. ALL NON-SALVAGEABLE MATERIALS SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND TO BE DISPOSED OFFSITE.
- CONTRACTOR IS TO SAWCUT THE CONCRETE AND/OR ASPHALT PAVEMENT THAT WILL BE REMOVED FOR THE INSTALLATION OF THE WATERLINE.
- THE WATER SERVICES WILL BE PAID AS EACH AND WILL INCLUDE ALL NECESSARY APPURTENANCES NEEDED TO INSTALL THE SERVICES AS SHOWN ON THE PLAN AND ALL APPURTENANCES NEEDED TO CONNECT TO THE EXISTING METERS.
- THE CONTRACTOR IS RESPONSIBLE FOR PLACEMENT AND MAINTENANCE OF ALL NECESSARY BARRICADES AND TRAFFIC CONTROL DEVICES REQUIRED BY THE CITY OR ROCKWALL OR THE TEXAS DEPARTMENT OF TRANSPORTATION. THE BARRICADES AND TRAFFIC CONTROL DEVICES WILL BE PROVIDED, INSTALLED, AND MAINTAINED IN CONFORMANCE WITH THE TEXAS MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
- NO SIGNS ARE TO BE BLOCKED, REMOVED, OR RELOCATED WITHOUT WRITTEN APPROVAL OF THE SIGNS OWNER.
- TWO-WAY TRAFFIC IS TO BE MAINTAINED AT ALL TIMES. TRAVELWAY MAY NOT BE LESS THAN 10 FEET IN WIDTH.
- THE FIRE HYDRANT ASSEMBLY WILL INCLUDE THE FIRE HYDRANT WITH APPURTENANCES, 6" FLG GATE VALVE, AND 6" PIPE AS NEEDED FOR PLACEMENT OF THE FIRE HYDRANT.

SH 276 WATERLINE IMPROVEMENTS			
QUANTITY SHEET & GENERAL NOTES			
ROCKWALL, TEXAS			
		CITY OF ROCKWALL	
"THE NEW HORIZON"			
DESIGNED:			
DRAWN:	ACAD		
JOB NO.	DATE: 9/00	SHEET NO:	1 of 3