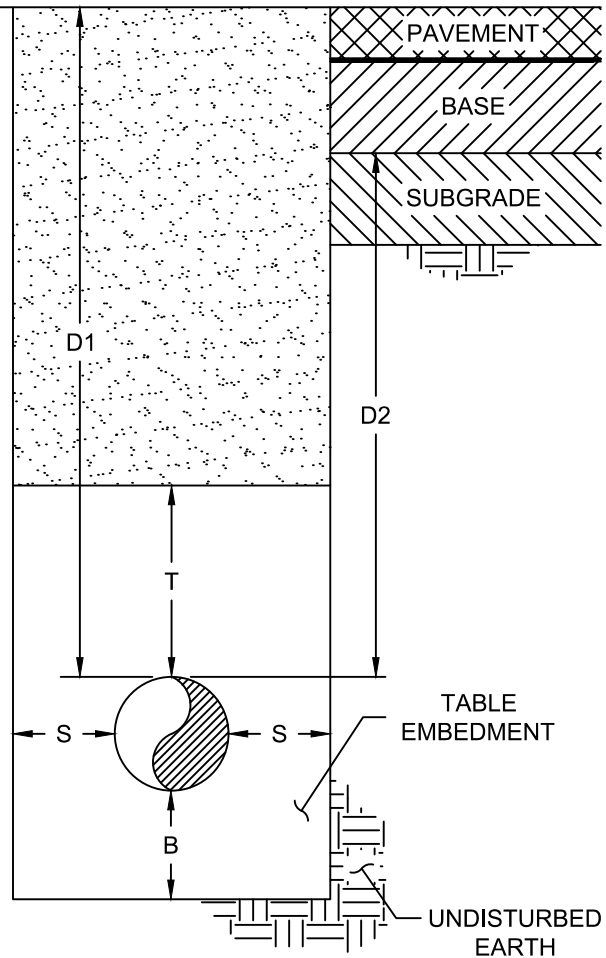


NATURAL  
GROUND  
(D1)

UNDER EXISTING  
PAVEMENT  
(D1)

UNDER PROPOSED  
PAVEMENT  
(D2)



EMBEDMENT DIMENSIONS				
	SIZE	T	S	B
NON STORM PIPE	ALL	12"	6"-12"	6" MIN.
STORM PIPE	42" OR LESS	12"	12"	6" MIN.
	GREATER THAN 42"	12"	12" - 18"	6" MIN.

EMBEDMENT				
PIPE SIZE	BEDDING SAND	MODIFIED GRADE 5 GRAVEL	ASTM C33 SIZE NO. 67	ASTM C33 SIZE NO. 57
2" - 3" PVC PIPE	ALLOWED	ALLOWED		
ALL PIPE 4" AND GREATER			ALLOWED	ALLOWED

MINIMUM DEPTH OF COVER					
PIPE TYPE	SIZE	(D1) UNDER PAVEMENT	(D1) NATURAL GROUND	(D1) LESS THAN 3' OF COVER	(D2 - NOTE 2) UNDER PROPOSED ROAD
WATER	12" OR LESS	48" MIN.	36" MIN.	24" MIN. AND USE CONCRETE FLOWABLE FILL DETAIL	36" BELOW BASE
	16" OR GREATER	48" MIN.	48" MIN.	NOT ALLOWED	48" BELOW BASE
WASTEWATER	ALL	60" MIN.	36" MIN.	DUCTILE IRON WILL BE USED. FLOWABLE FILL DETAIL WHERE EROSION MAY OCCUR	48" MIN. BELOW BASE
RECLAIMED WATER	ALL	48" MIN.	36" MIN.	24" MIN. AND USE CONCRETE FLOWABLE FILL DETAIL	36" MIN. BELOW BASE
STORM	ALL	MANUFACTURER'S SPECIFICATION MINIMUM AND MAXIMUM DEPTH OF COVER WILL BE USED FOR STORM PIPES			

**NOTES:**

1. ALL MEASUREMENTS ARE FROM OUTSIDE PIPE DIAMETER.
2. FOR TABLE "MINIMUM DEPTH OF COVER" COLUMN "UNDER PROPOSED ROAD" IF D1 FROM COLUMN "UNDER PAVEMENT" PLACES THE PIPE LOWER THAN D2. THEN D1 FROM "UNDER PAVEMENT" WILL BE USED FOR MINIMUM DEPTH OF COVER.
3. REFERENCE APPROPRIATE 510 PIPE TRENCH DETAILS FOR PAYMENT LIMITS. THIS DETAIL IS FOR DIMENSIONAL PURPOSES ONLY.

The City of San Marcos  
Engineering and Capital Improvements

CURRENT AS OF  
1/1/2021

UTILITY TRENCH DIMENSIONS

RECORD COPY SIGNED BY  
LAURIE MOYER, P.E.

1/23/2018  
ADOPTED

THE ARCHITECT/ENGINEER ASSUMES  
RESPONSIBILITY FOR APPROPRIATE USE  
OF THIS STANDARD.

STANDARD NO.  
**510S-TD-SM**  
1 OF 1