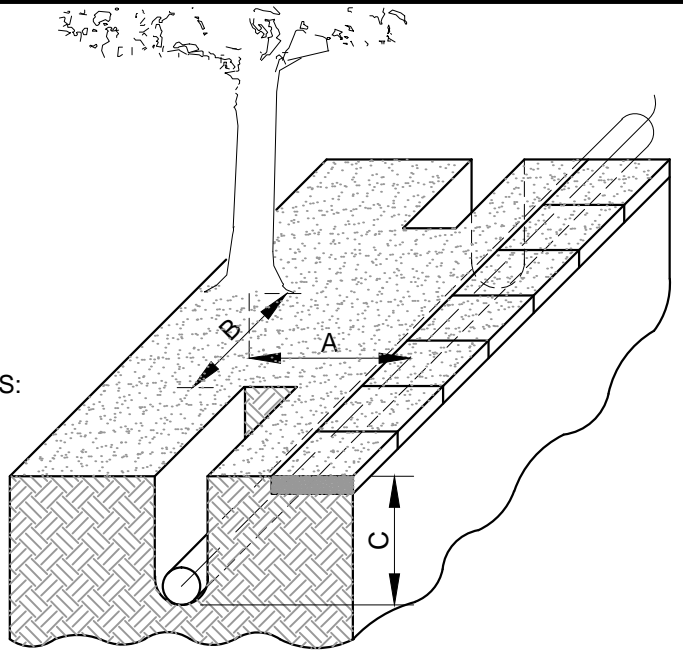


**NOTES:**

CARE SHALL BE TAKEN WHEN PIPE INSTALLATION IS REQUIRED WITHIN EXISTING TREE ROOT AREAS. AVOID TRENCHING WITHIN DRIPLINE OF TREES WHERE POSSIBLE. IF APPROVED IN WRITING, THE FOLLOWING PROCEDURES MAY BE FOLLOWED ON A CASE-BY-CASE BASIS:



1. OPEN TRENCHES CAN BE DUG MECHANICALLY UNTIL REACHING THE DRIPLINE OF THE TREE. TRENCHES WITHIN THE DRIPLINE OF THE TREE SHOULD BE CONTINUED BY HAND. DAMAGED ROOTS OVER 1-1/2" IN DIAMETER SHALL BE CUT LEAVING A CLEAN, SMOOTH SURFACE. ROOTS OVER 4" IN DIAMETER SHALL BE CAREFULLY HAND DUG UNDER. IF MANY ROOTS ARE CUT, THE TOP OF THE TREE SHOULD BE THINNED PROPORTIONALLY; CONSULT WITH LANDSCAPE ARCHITECT OR CITY'S ARBORIST PRIOR TO THINNING.
2. IF PIPE INSTALLATION IS TO PASS BY THE TREE TRUNK WITHIN DIMENSION "A", THEN HAND TRENCH FROM OPPOSITE SIDES OF THE TREE UNTIL DIMENSION "B" IS REACHED. AUGUR THE TUNNEL BETWEEN THESE TRENCHES AT THE CORRESPONDING DIMENSION "C" DEPTH AND INSTALL PIPE. NEVER TUNNEL DIRECTLY BELOW TREE TRUNK.
3. AFTER TUNNEL IS EXCAVATED, IMMEDIATELY INSTALL PIPES, CONTROL WIRE, ETC., BACKFILL TRENCH AND SOAK.

TREE TRUNK DIAMETER	"A" DISTANCE OF BORE FROM EACH SIDE OF TREE TRUNK	"B" DISTANCE OF OPEN TRENCH FROM TREE TRUNK	"C" DEPTH OF BORE OR TRENCH
in	ft	ft	ft
2	2	3	3.00
3	3	6	3.25
6	5	10	3.33
12	6	12	3.67
18	7	14	4.00
24	8	16	4.33
30	9	18	4.67
36	10	20	4.83
42	12	22	5.00

<h2 style="margin: 0;">CITY OF FREMONT</h2> <h3 style="margin: 0;">PARK STANDARD DETAILS</h3> <h3 style="margin: 0;">BORING AND TRENCHING</h3> <h3 style="margin: 0;">ADJACENT TO EXISTING TREE</h3>			DATE APPROVED BY CITY COUNCIL December 13, 2011		
			RESOLUTION NO. 2011-65		
			SENIOR LANDSCAPE ARCHITECT 		
			COMMUNITY SERVICES DIRECTOR 		
APR.	REVISED	DATE	REVISIONS		
FILE NO.	SCALE	DRAWN	CHECKED	DATE	DWG NO.
PSD PLT-3.DWG	N.T.S.	AM	RER	05/03/2011	PSD PLT-3
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