

#### NOTES FOR TYPE 1 TREE WELL

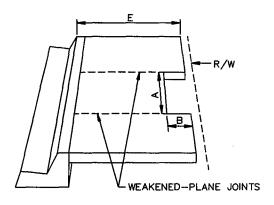
- 1. THE COVER SHALL BE MADE OF PERMEABLE CONCRETE WITH A MINIMUM COMPRESSIVE STRENGTH OF 1200 PSI (8.5 MPa) AND SHALL BE CAST—IN PLACE OR PRECAST "AGRIPERM" OR EQUIVALENT. CAST—IN—PLACE CONCRETE SHALL CONSIST OF ONE PART CEMENT TO FOUR PARTS 3/8" (10 mm) GRAVEL AND APPROXIMATE 4 GALLONS (15 LITERS) OF WATER PER 94 LB (42.5 kg) OF CEMENT. THE GRAVEL SHALL BE CLEAN WITH FINES REMOVED. THE CONCRETE MIXTURE SHALL BE DEPOSITED AS NEAR AS POSSIBLE TO ITS FINAL LOCATION. THE EXCESS CONCRETE SHALL BE RODDED OFF IN A SAWING MOTION. A SURPLUS OF CONCRETE SHOULD BE MAINTAINED AGAINST THE FRONT SURFACE OF THE SCREED IN ORDER THAT LOW AREAS WILL BE FILLED AS THE SCREED PASSES OVER. RODDING SHALL BE HELD TO A MINIMUM. AFTER THE SURFACE IS FLAT NO OTHER FINISHING WILL BE REQUIRED. CURING COMPOUND TO WHICH WATERPROOFING MATERIALS HAVE BEEN ADDED WILL NOT BE PERMITTED.
- 2. EXISTING SIDEWALKS SHALL BE CAREFULLY SAWCUT PREPARATORY TO INSTALLATION OF TREE WELL COVERS. SAWCUT OVER—RUNS SHALL BE CLEANED AND FILLED WITH EPOXY APPROVED BY THE ENGINEER AND FINISHED TO SIDEWALK GRADE.
- 3. THE PIPE MAY BE CIP, ACP, VCP, ABS, PVC, GALV STL OR ASPHALT IMPREGNATED FIBER DUCT AND IT MAY BE BELL OR PLAIN END.
- 4. AFTER ALL OTHER WORK PERTINENT TO PLANTING HAS BEEN COMPLETED, EACH TREE SHALL BE WATERED IMMEDIATELY WITH A MINIMUM OF 20 GALLONS (75 LITERS) OF WATER, AND REPEATED 2 TIMES IN THE NEXT 3 DAYS, AFTER THE TREE HAS BEEN WATERED AND THE SOIL IS SUFFICIENTLY DRY, THE SOIL SHALL BE GRADED AND TAMPED. THE 3" (75 mm) LAYER OF AGGREGATE SHALL BE PLACED AND GRADED TO ACCEPT THE TREE WELL COVER FIRMLY, WITHOUT ROCKING, AND FLUSH WITH THE TOP SURFACE OF THE SIDEWALK. THE PREMOLDED JOINT FILLER SHALL BE CAREFULLY PLACED TO INSURE A TIGHT FIT WITH THE TOP OF THE JOINT FILLER FLUSH WITH THE ADJACENT SIDEWALK.
- 5. IF CAST-IN-PLACE, THERE SHALL BE A 3 MIL (0.075 mm) PLASTIC LINER BETWEEN WALK AND AGGREGATE

#### NOTES FOR TYPE 2 TREE WELL

- 1. EXISTING SIDEWALK SHALL BE CAREFULLY SAWCUT PREPARATORY TO LAYING OF CONCRETE BLOCKS OR BRICK. SAWCUT OVER—RUNS SHALL BE CLEANED AND FILLED WITH EPOXY APPROVED BY THE ENGINEER AND FINISHED TO SIDEWALK GRADE.
- 2. THE PIPE MAY BE CIP, ACP, VCP, ABS, PVC, GALV STL OR ASPHALT IMPREGNATED FIBER DUCT, AND IT MAY BE BELL OR PLAIN END.
- 3. NAILS SHALL BE GALVANIZED STEEL BOX.
- 4. AFTER ALL OTHER WORK PERTINENT TO PLANTING HAS BEEN COMPLETED, EACH TREE SHALL BE WATERED IMMEDIATELY WITH A MINIMUM OF 20 GALLONS (75 LITERS ) OF WATER AND REPEATED 2 TIMES IN THE NEXT 3 DAYS. AFTER THE WATER HAS SETTLED AND THE SOIL IS SUFFICIENTLY DRY, THE SOIL SHALL BE GRADED AND TAMPED. A 3" (75 mm) LAYER OF AGGREGATE SHALL BE PLACED AND GRADED TO ACCEPT BRICKS FLUSH WITH THE TOP SURFACE OF THE SIDEWALK. THE PREMOLDED JOINT FILLER AND HEADERS SHALL BE CAREFULLY PLACED TO INSURE A TIGHT FIT WITH THE TOP OF THE JOINT FILLER FLUSH WITH THE ADJACENT SIDEWALK.

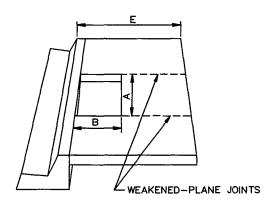
STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION

STANDARD PLAN



1 COVER REQUIRED

CASE 1:  $3' \times 18"$  (900 mm x 450 mm) TREE WELL CASE 2:  $4' \times 24"$  (1200 mm x 600 mm) TREE WELL

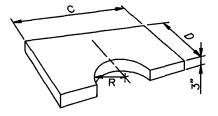


2 COVERS REQUIRED

CASE 3: 3'  $\times$  3' (900 mm  $\times$  900 mm) TREE WELL CASE 4: 4'  $\times$  4' (1200 mm  $\times$  1200 mm) TREE WELL

## TREE WELLS

CASE	A	В	C	D	E	R
ı	3'-0"	18"	2'-11"	17 1/2"	5'-0"	9"
	(900 mm)	(450 mm)	(975 mm)	(450 mm)	(1500 mm) MIN	(225 mm)
2	4'-0"	(24*)	3'-11"	23 1/2"	5'-6"	15"
	(1200 mm)	(600 mm)	(1175 mm)	(600 mm)	(1650 mm) MIN	(375 mm)
3	3'-0"	3'-0"	2'-11"	17 1/2"	6'-6"	9"
	(900 mm)	(900 mm)	(975 mm)	(450 mm)	(1950 mm) MIN	(225 mm)
4	4'-0"	4'-0"	3'-11"	23 1/2"	7'-6"	15"
	(1200 mm)	(1200 mm)	(1175 mm)	(600 mm)	(2250 mm) MIN	(375 mm)



# POROUS TREE WELL COVER (SEE NOTE 2)

### NOTES FOR TYPE 3 TREE WELL

- 1. SEE SHEET 7 FOR NOTES PERTAINING TO THE SHEET.
- 2. PERMEABLE (POROUS) CONCRETE TREE WELL COVER:
  THE COVER SHALL BE MADE OF PERMEABLE CONCRETE WITH A
  MINIMUM COMPRESSIVE STRENGTH OF 1200 PSI (8.5 MPa) AND SHALL BE
  PRECAST & REINFORCED WITH 2 1/4" X 2 1/4" (60 mm x 60 mm) 16 GAUGE
  WIRE MESH. CONCRETE SHALL CONSIST OF ONE PART CEMENT TO
  FOUR PARTS 3/8" (10 mm) GRAVEL AND APPROXIMATELY FOUR GALLONS
  (15 LITERS) OF WATER PER SACK OF CEMENT. THE GRAVEL SHALL BE
  CLEAN WITH FINES REMOVED. CURING COMPOUND TO WHICH WATER—
  PROOFING MATERIALS HAVE BEEN ADDED WILL NOT BE PERMITTED.

# TYPE 3

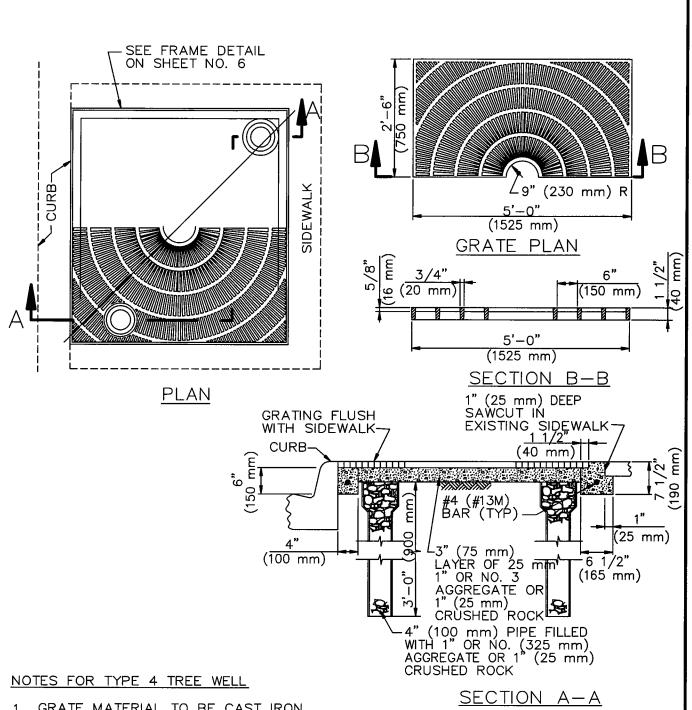
STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION

TREE WELL

STANDARD PLAN

519-3

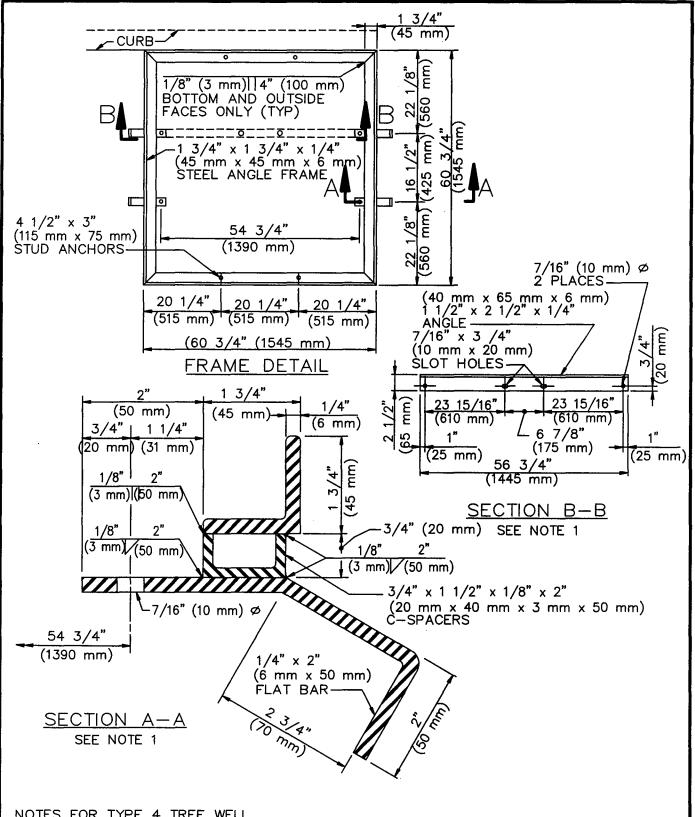
SHEET 4 OF 7



- GRATE MATERIAL TO BE CAST IRON.
- GRATE PATTERN AS SPECIFIED ON PLANS OR IN SPECIFICATIONS.
- EXISTING SIDEWALK SHALL BE CAREFULLY SAWCUT PREPARATORY TO LAYING OF FRAME. SAWCUT OVER-RUNS SHALL BE CLEANED AND FILLED WITH EPOXY APPROVED BY THE ENGINEER AND FINISHED TO SIDEWALK GRADE.
- THE PIPE MAY BE CIP, ACP, VCP, ABS, PVC, GALV STL OR ASPHALT IMPREGNATED FIBER DUCT, AND IT MAY BE BELL OR PLAIN END.
- AFTER ALL OTHER WORK PERTINENT TO PLANTING HAS BEEN COMPLETED. EACH TREE SHALL BE WATERED IMMEDIATELY WITH A MINIMUM OF 75 LITERS (20 GALLONS) OF WATER AND REPEATED 2 TIMES IN THE NEXT 3 DAYS. AFTER THE WATER HAS SETTLED AND THE SOIL IS SUFFICIENTLY DRY, THE SOIL SHALL BE GRADED AND TAMPED AND 3" (75 mm) CONCRETE AGGREGATE SHALL BE PLACED AND GRADED.

TYPE STANDARD PLAN STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION 519-3 TREE WELL

SHEET 5 OF



### NOTES FOR TYPE 4 TREE WELL

- SECTION A AND B REQUIRED ONLY WHEN TREE GUARD IS REQUIRED.
- ALL METAL PARTS AND FRAME SHALL CONFORM TO THE SSPWC AND SHALL BE HOT DIP GALVANIZED AFTER FABRICATION.
- SEE SHEET 7 FOR NOTES PERTAINING TO THIS SHEET.

# TYPE 4

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	519-3				
		WELL			SHEET 6 OF 7

## GENERAL NOTES FOR ALL FOUR TYPES OF TREE WELL

- TREE WELLS SHOULD BE SPACED APPROXIMATELY 50' (15 m) APART, BUT NOT LESS THAN ONE PER RESIDENTIAL LOT.
- LOCATION OF TREE WELLS SUBJECT TO THE FOLLOWING MINIMUM CLEARANCES: A. 50' (15 m) FROM BCR ON THE APPROACH TO AN INTERSECTION

AND 15' (4.5 m) FROM THE ECR ON THE EXIT SIDE.

- B. 20' (6 m) FROM LIGHT STANDARDS.C. 10' (3 m) FROM FIRE HYDRANTS AND DRIVEWAYS.
- D. 5' (1.5 m) FROM HOUSE WALKS AND UTILITY METERS.
- COVERS SHALL BE COLORED BUFF USING AN ACCEPTABLE COLORING AGENT. 3.
- 4. TREE WELL SHALL BE BACKFILLED WITH CLEAN DIRT FLUSH WITH ADJACENT WALK UNTIL TREE IS PLANTED.
- DO NOT USE CASE 1 OR CASE 2 TREE WELL WHERE THERE IS AN EXISTING 5. FENCE OR WALL AT THE R/W LINE.
- TOP OF TREE WELL COVER SHALL BE FLUSH WITH ADJACENT SIDEWALK. 6.
- 7. LOCATION OF TREE SUBJECT TO CHANGE AT THE DIRECTION OF THE ENGINEER.

STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION

TREE WELL

STANDARD PLAN

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