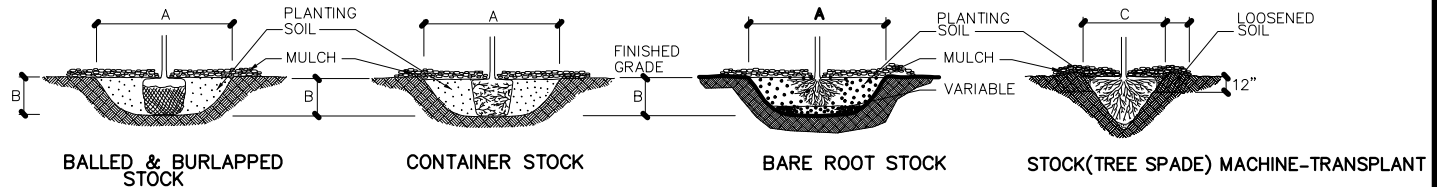


PLANTING HOLE DIMENSIONS
(MINIMUM WIDTH DOES NOT APPLY IN MASS PLANTING BEDS)
ALL VALUES ARE AS FOLLOWS:

PLANT TYPE	PLANT SIZE UP TO AND INCLUDING	(A) MINIMUM HOLE WIDTH	(B) APPROXIMATE HOLE DEPTH (1)
CONFEROUS TREES	(6) SEEDLING	(15)	(14)
	(9) SEEDLING	(18)	(14)
	(12) SEEDLING	(23)	(16)
	(2) B.B.	(36)	(10)
	(3) B.B.	(42)	(11)
	(4) B.B.	(51)	(13)
	(5) B.B.	(60)	(13)
	(6) B.B.	(72)	(15)
	(7) B.B.	(66)	(16)
	(8) B.B.	(81)	(18)
(9) B.B.	(90)	(20)	
(10) B.B.	(102)	(21)	
(16) SEEDLING	(15)	(14)	
(12) SEEDLING	(23)	(16)	
(18) SEEDLING	(30)	(16)	
(2) SEEDLING	(36)	(18)	
(2.5) SEEDLING	(40)	(18)	
(3) B.R.	(46)	(13)	
(4) B.R.	(46)	(14)	
(7) B.R.	(48)	(14)	
(5) B.R.	(54)	(15)	
(6) B.R.	(15)	(16)	
(8) B.R.	(66)	(19)	
(0.75) B.R.	(48)	(12)	
(1) B.R.	(54)	(14)	
(1.25) B.R.	(60)	(14)	
(1.5) B.R.	(66)	(15)	
(1.75) B.R.	(72)	(16)	
(2) B.R.	(84)	(19)	
(2) B.B.	(72)	(16)	
(2.5) B.B.	(84)	(19)	
(3) B.B.	(96)	(20)	
(3.5) B.B.	(114)	(23)	
(4) B.B.	(126)	(25)	
(2) B.B.	(36)	(9)	
(3) B.B.	(48)	(12)	
(4) B.B.	(63)	(14)	
(18) SPR B.B.	(30)	(8)	
(2) SPR B.B.	(36)	(9)	
(2.5) SPR B.B.	(42)	(11)	
(3) SPR B.B.	(48)	(12)	
(18) B.R.	(30)	(8)	
(2) B.R.	(33)	(9)	
(3) B.R.	(42)	(11)	
(4) B.R.	(48)	(12)	
(5) B.R.	(54)	(14)	
(6) B.R.	(60)	(14)	
(18) B.B.	(27)	(7)	
(2) B.B.	(30)	(8)	
(3) B.B.	(36)	(9)	
(4) B.B.	(42)	(11)	
(5) B.B.	(48)	(12)	
(6) B.B.	(54)	(14)	
CELLPACKS	(6)	(2.5)	
(2.25) CONT.	(7)	(3)	
(3.5) CONT.	(10)	(3)	
(4) CONT.	(11)	(4)	
(4.5) CONT.	(13)	(4)	
(1 QT.) CONT.	(15)	(5.5)	
(#1) CONT.	(18)	(6)	
(#2) CONT.	(23)	(7.5)	
(#3) CONT.	(29)	(8.5)	
(#5) CONT.	(30)	(11)	
(#7) CONT.	(37)	(11)	
(#15) CONT.	(44)	(14)	
(#10) CONT.	(45)	(15)	
(#20) CONT.	(60)	(17)	
(#25) CONT.	(72)	(18)	
1 YR. MED. B.R.	(15)	(11)	
1 YR. NO. 1 B.R.	(17)	(14)	
2 YR. MED. B.R.	(33)	(12)	
2 YR. NO. 1 B.R.	(42)	(15)	
(#1) CONT.	(18)	(6)	
(#2) CONT.	(23)	(7.5)	



- BALLED & BURLAPPED STOCK**
- **SCARIFY SIDES AND BOTTOM OF HOLE.
 - **PROCEED WITH CORRECTIVE PRUNING AS DIRECTED BY THE ENGINEER
 - **SET PLANT ON UNDISTURBED NATIVE SOIL OR THOROUGHLY COMPACTED PLANTING SOIL. INSTALL PLANT SO THE ROOT FLARE IS AT OR UP TO 2" ABOVE THE FINISHED GRADE WITH BURLAP AND WIRE BASKET. (IF USED), INTACT.
 - **BACKFILL TO WITHIN APPROXIMATELY 12" OF THE TOP OF THE ROOTBALL, THEN WATER PLANT. REMOVE THE TOP 1/3 OF THE BASKET OR THE TOP TWO HORIZONTAL RINGS WHICHEVER IS GREATER. ALSO REMOVE ALL BURLAP AND NAILS FROM THE TOP 1/3 OF THE BALL, REMOVE ALL TWINE. REMOVE OR CORRECT STEM GIRDLING ROOTS.
 - **PLUMB AND BACKFILL WITH THE PLANTING SOIL.
 - **WATER TO SETTLE PLANTS AND FILL VOIDS.
 - **WATER THOROUGHLY WITHIN 2 HOURS.
 - **PLACE MULCH WITHIN 48 HOURS OF THE SECOND WATERING UNLESS SOIL MOISTURE IS EXCESSIVE.
 - **STAKE AND GUY TO PROVIDE ADDITIONAL SUPPORT BETWEEN THE STEM AND ROOT BALL AS NECESSARY OR SPECIFIED.

- CONTAINER STOCK**
- **SCARIFY SIDES AND BOTTOM OF HOLE.
 - **PROCEED WITH CORRECTIVE PRUNING AS DIRECTED BY THE ENGINEER.
 - **REMOVE CONTAINER AND SCORE OUTSIDE OF SOIL MASS TO REDIRECT AND PREVENT CIRCLING FIBROUS ROOTS, AS NECESSARY.
 - **SET PLANT ON UNDISTURBED NATIVE SOIL OR THOROUGHLY COMPACTED PLANTING SOIL. INSTALL PLANT SO THE ROOT FLARE IS AT OR UP TO 2" ABOVE THE FINISHED GRADE. REMOVE OR CORRECT STEM GIRLING ROOTS.
 - **PLUMB AND BACKFILL WITH THE PLANTING SOIL.
 - **WATER TO SETTLE PLANTS AND FILL VOIDS.
 - **WATER THOROUGHLY WITHIN 2 HOURS.
 - **PLACE MULCH WITHIN 48 HOURS OF THE SECOND WATERING UNLESS SOIL MOISTURE IS EXCESSIVE.

- BARE ROOT STOCK**
- **SOAK ROOTS IN WATER FOR AT LEAST ONE HOUR BUT NOT MORE THAN 24 HOURS PRIOR TO PLANTING.
 - **SCARIFY SIDES AND BOTTOM OF HOLE.
 - **PROCEED WITH CORRECTIVE PRUNING AS DIRECTED BY THE ENGINEER.
 - **TRANSFER PLANT DIRECTLY FROM WATER TO HOLE. SET PLANT SO THE ROOT FLARE IS APPROXIMATELY AT THE FINISHED SOIL ELEVATION. SPREAD ROOTS OUT EVENLY. PLUMB AND IMMEDIATELY BACKFILL WITH THE PLANTING SOIL.
 - **WATER TO SETTLE PLANTS AND FILL VOIDS.
 - **WATER THOROUGHLY WITHIN 2 HOURS.
 - **PLACE MULCH WITHIN 48 HOURS OF THE SECOND WATERING UNLESS SOIL MOISTURE IS EXCESSIVE.

- STOCK (TREE SPADE) MACHINE-TRANSPLANT**
- **SCARIFY SIDES AND BOTTOM OF HOLE.
 - **ADD CORRECTIVE PRUNING.
 - **SET PLANT ON NATIVE SOIL AT SAME DEPTH AS IT WAS PREVIOUSLY GROWN.
 - **PLUMB AND BACKFILL WITH THE PLANTING SOIL.
 - **WATER TO SETTLE PLANTS AND FILL VOIDS.
 - **AFTER PLANTING, LOOSEN THE SOIL IMMEDIATELY ADJACENT TO THE SPADE-MOVED SOIL TO A MINIMUM DISTANCE OF 18" AND A MINIMUM DEPTH OF 12".
 - **WATER THOROUGHLY WITHIN 2 HOURS
 - **PLACE MULCH WITHIN 48 HOURS OF THE SECOND WATERING UNLESS SOIL MOISTURE IS EXCESSIVE.
 - **STAKE AND GUY TO PROVIDE ADDITIONAL SUPPORT BETWEEN THE STEM AND ROOT BALL AS NECESSARY OR SPECIFIED.

MINIMUM TREE SPADE SIZE REQUIREMENTS

SPADE DIAMETER SIZE 'C'	OAK TREES, CALIPER	DECIDUOUS/ORNAMENTAL TREES, CALIPER	CONFEROUS TREES, HEIGHT
42"	1' to 1.5'	2' to 3'	5' to 7'
60"	1.5' to 2.5'	3' to 4'	7' to 9'
78"	2.5' to 3.5'	4' to 6'	9' to 14'
85"	3.5' to 5'	6' to 8'	14' to 18'

PLANTING DETAILS FOR ISOLATED PLANTING LOCATIONS

- GENERAL NOTE:**
ALL PLANT STOCK MUST BE ACCEPTED IN ACCORDANCE OF Mn/DOT 3861 PRIOR TO FOLLOWING THE STANDARD PLANTING DETAILS. PLANTING SOIL IS A COMBINATION OF THOROUGHLY MIXED EXISTING SOIL AND COMPOST MIX AND/OR ANY OTHER SPECIFIED AMENDMENTS.
- NOTE:**
1.**HOLE DEPTH FOR B&B AND CONTAINER PLANTS SHALL NOT EXCEED MEASUREMENT FROM ROOT FLAIR TO BOTTOM OF SOIL BALL.

