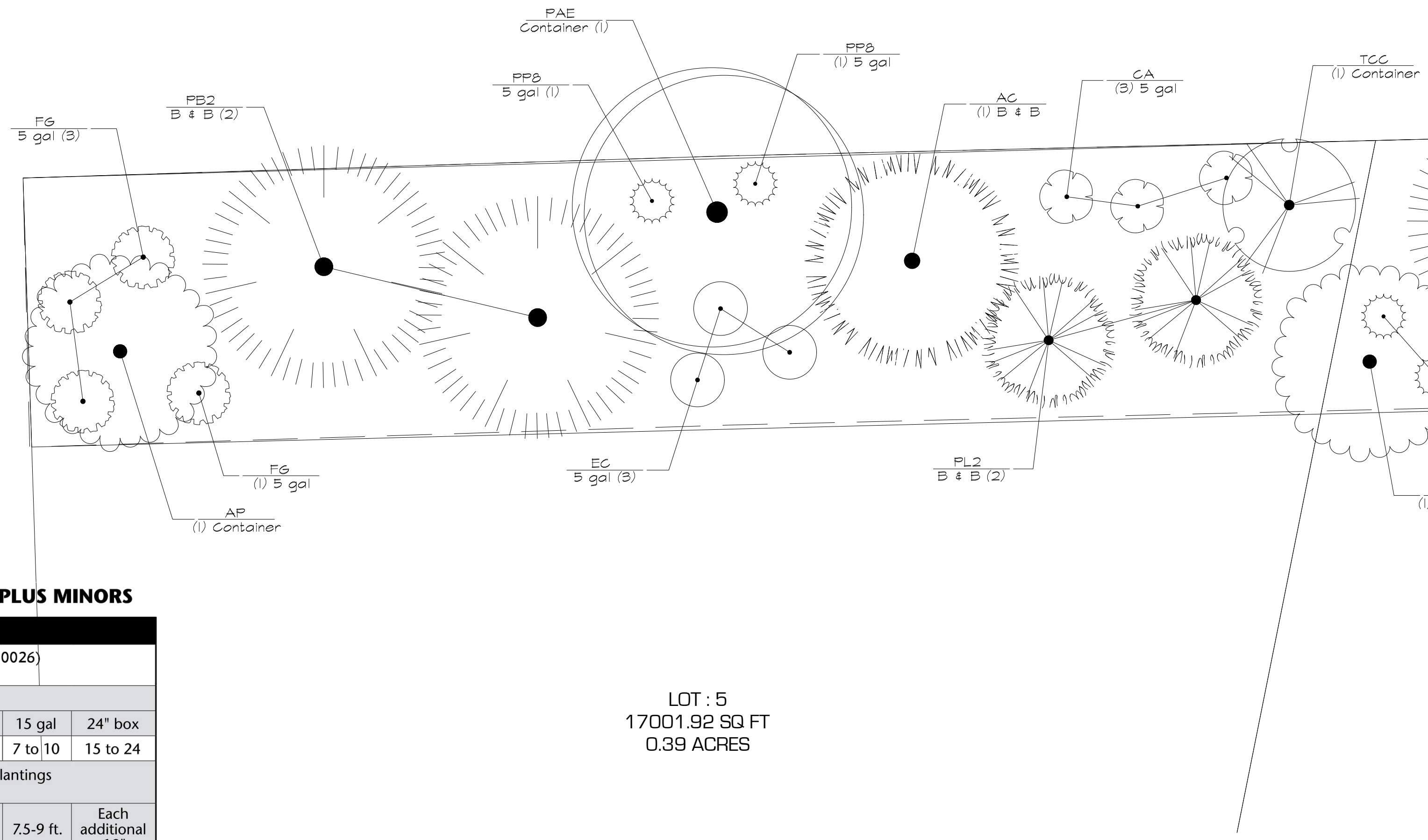
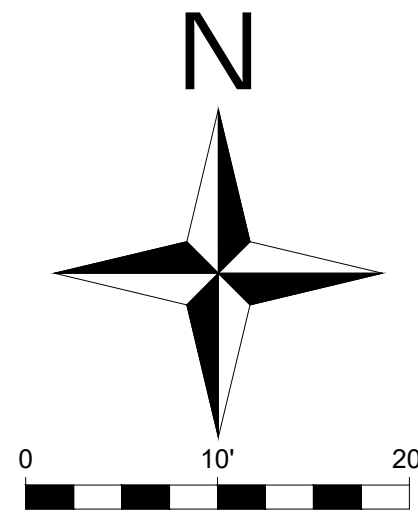


MEADOW CREEK PARK & BERM LOT 5 BERM PLANTING

SCALE: 1"=10'



LOT : 5
17001.92 SQ FT
0.39 ACRES

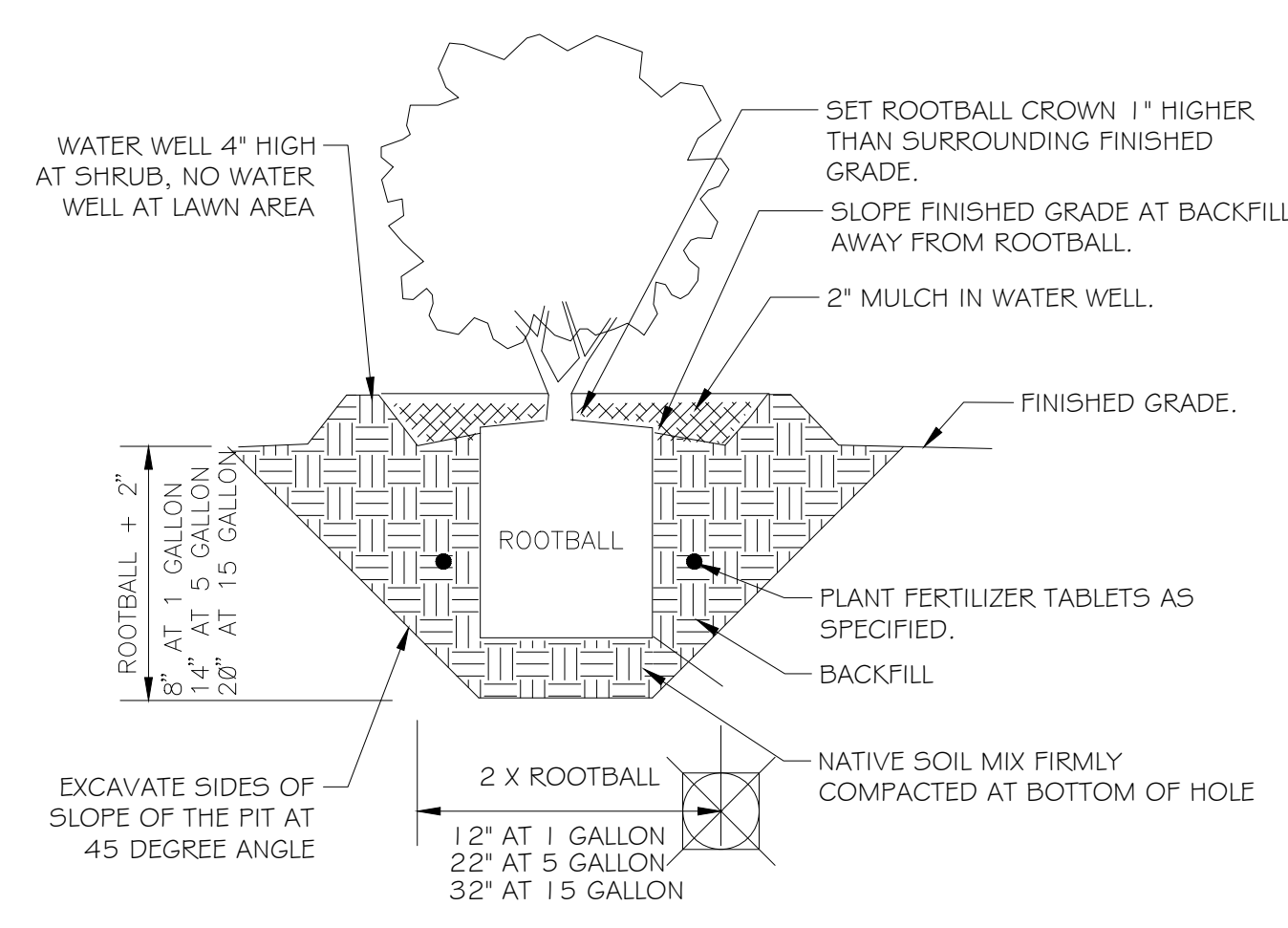
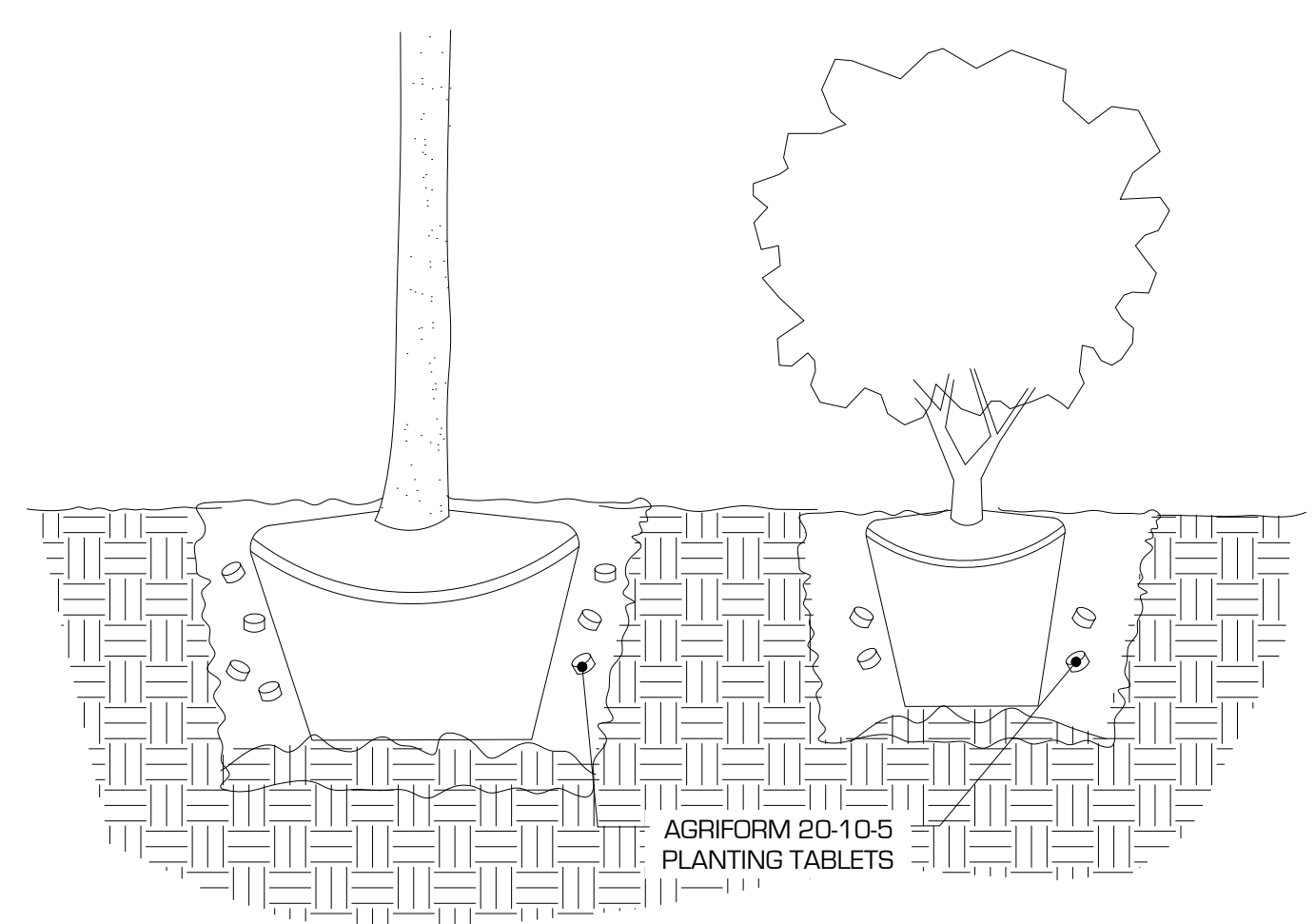
AGRIFORM® 20-10-5 PLANTING TABLETS PLUS MINORS

| SUGGESTED APPLICATION RATES | | | | | | | |
|--|--|--------|--------|-----------|-----------|-----------|---------------------|
| Agriform® 21-gm Tablets (SKU= E90026*, G90026) (*available in Canada SKU= E98355) | | | | | | | |
| | Tree / Shrub Container Size | | | | | | |
| | 1 gal | 2 gal | 3 gal | 5 gal | 7 gal | 15 gal | 24" box |
| Installation | 1 | 1 to 2 | 2 to 3 | 2 to 3 | 3 to 5 | 7 to 10 | 15 to 24 |
| | Maintenance Rates for Established Plantings (Plant Height or Spread) | | | | | | |
| | 18" or less | 18-36" | 36-54" | 4.5-6 ft. | 6-7.5 ft. | 7.5-9 ft. | Each additional 18" |
| Slow Growing | 1 | 1 to 2 | 2 to 3 | 3 to 4 | 4 to 5 | 5 to 6 | add 1 |
| Fast Growing | 2 | 2 to 4 | 4 to 6 | 6 to 8 | 8 to 10 | 10 to 12 | add 1 |
| | Agriform® 10-gm Tablets (SKU= E90805, G90805) Application Rate for Well-Rooted Liners (Quart to gallon size) | | | | | | |
| | 1 to 2 tablets for each plant | | | | | | |
| | Agriform® 5-gm Tablets (SKU= E90915, G90915) Application Rate for Small Ground Cover/Perennials (Quart size or smaller) | | | | | | |
| | 1 tablet for each plant | | | | | | |

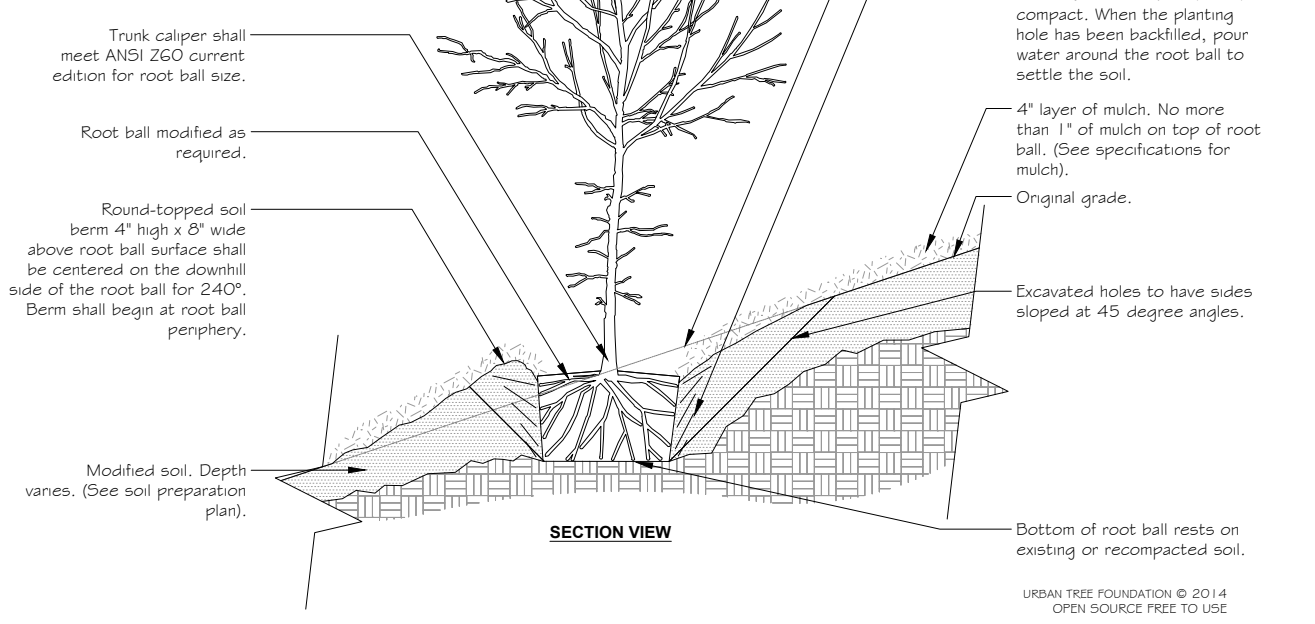
Always refer to label instructions before application

BERM PLANTING NOTES:

- TREES QUANTITIES = 1 TREE / 12 LINEAR FEET OF BERM
- SHRUB QUANTITIES = 1 SHRUB / 10 LINEAR FEET OF BERM.
- ALL PLANT MATERIAL SHALL CONFORM TO THE MINIMUM GUIDELINES ESTABLISHED BY THE AMERICAN STANDARD FOR NURSERY STOCK PUBLISHED BY THE AMERICAN NURSERY ASSOCIATION, INC.
- ANY PROPOSED SUBSTITUTIONS OF PLANT SPECIES SHALL BE MADE WITH PLANTS OF EQUIVALENT OVERALL FORM, HEIGHT, BRANCHING HABIT, FLOWER, LEAF, COLOR, FRUIT, SOLAR NEEDS, WATER NEEDS, AND CULTURE ONLY AS APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
- ALL PLANT MATERIAL TO BE INSTALLED PER DETAIL DRAWINGS INCLUDING THE APPLICATION OF AGRIFORM PLANTING TABLETS PER MANUFACTURER RECOMMENDED APPLICATION RATES.
- 30-FT WIDTH OF BERM TO RECEIVE 3-INCH DEPTH OF SHREDDED BARK MULCH & TO BE REPLENISHED ON A 3-YEAR BASIS WITH 2 ADDITIONAL INCHES.

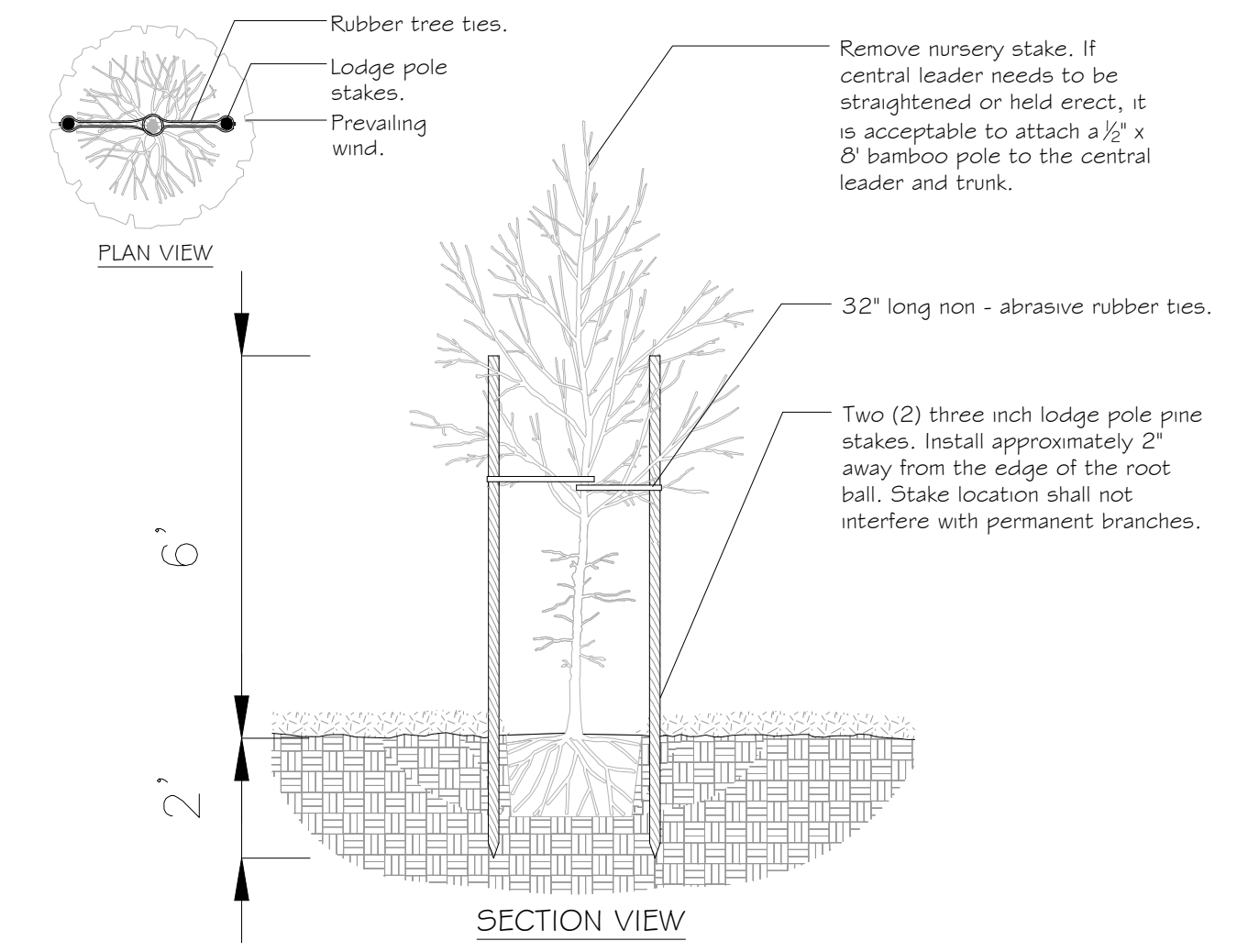


Notes:
1- Trees shall be of quality prescribed in crown observations and root observations details and specifications.
2- See specifications for further requirements related to this detail.



PLANT SCHEDULE LOT 5

| TREES | CODE | QTY | BOTANICAL NAME / COMMON NAME | CONT | CAL | SIZE |
|--------|------|-----|---|-----------|-----|---------|
| | AC | 1 | Abies concolor / White Fir | B & B | | 4' - 5' |
| | AP | 1 | Acer truncatum 'Pacific Sunset' TM / Pacific Sunset Maple | Container | | 1.5" |
| | PB2 | 2 | Picea pungens glauca / Colorado Blue Spruce | B & B | | 4' - 5' |
| | PL2 | 2 | Pinus flexilis / Limber Pine | B & B | | 4' - 5' |
| | PAE | 1 | Platanus acerfolia 'Exclamation!' / Exclamation! Plane Tree | Container | | 1.5" |
| | TCC | 1 | Tilia cordata 'Corinthian' / Corinthian Littleleaf Linden | Container | | 1.5" |
| SHRUBS | CODE | QTY | BOTANICAL NAME / COMMON NAME | CONT | | |
| | CA | 3 | Cornus alba 'Baihalo' / Ivory Halo Dogwood | 5 gal | | |
| | EC | 3 | Euonymus alatus 'Compactus' / Compact Burning Bush | 5 gal | | |
| | FG | 4 | Forsythia x 'Gold Cluster' / Forsythia | 5 gal | | |
| | PP8 | 2 | Pinus mugo 'Pumilio' / Mugo Pine | 5 gal | | |



4 TREE DOUBLE STAKING

NOT TO SCALE 329343-06

1 AGRIFORM 20-10-5 PLANTING TABLETS

NOT TO SCALE 32933-01

2 SHRUB PLANTING

NOT TO SCALE 329333, 13-01

3 TREE PLANTING ON SLOPE

NOT TO SCALE 329343-06

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**MEADOW CREEK SUBDIVISION
PARK & BERM LANDSCAPE PLAN
150 EAST 3850 SOUTH
NIBLEY, UTAH 84321**

| | |
|-------|--------------|
| MARK: | DESCRIPTION: |
| DATE: | |

PROJECT #: 17099
REVIEWER: KALTHOUSE
DESIGNED BY: M.POWELL
ISSUED: 12.6.2017

PROFESSIONAL LANDSCAPE ARCHITECT
12.06.17
No. 10274334-5301
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STATE OF UTAH

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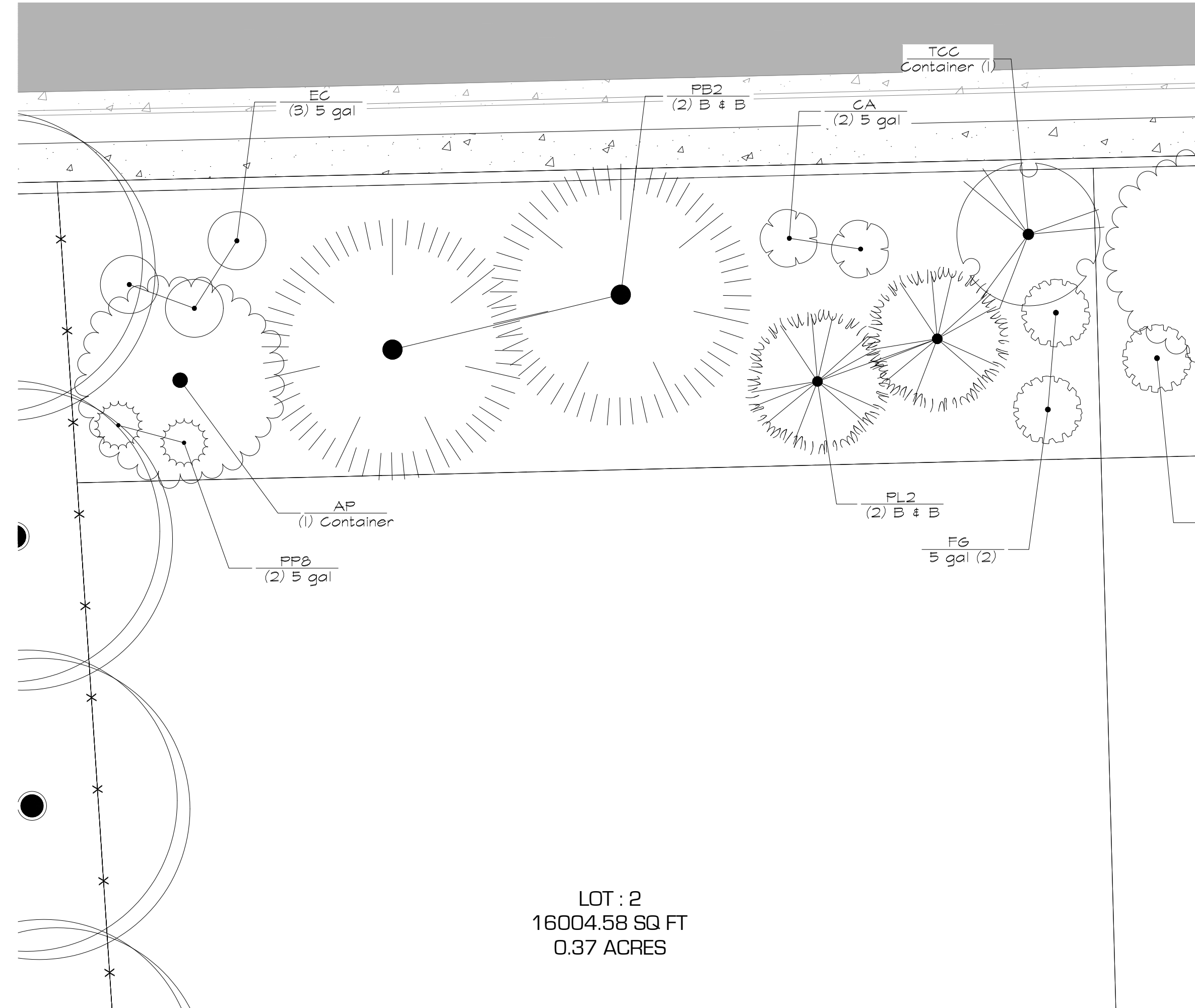
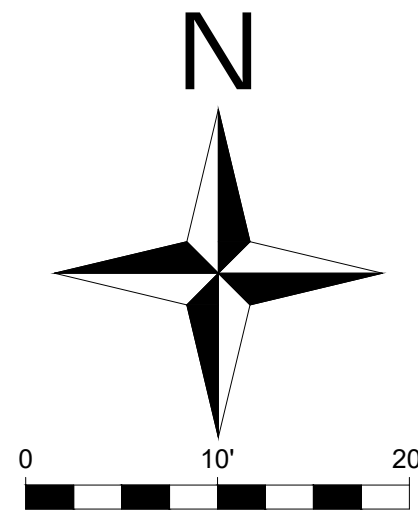
LOT 5 BERM PLANTING

L-102

MEADOW CREEK PARK & BERM

LOT 2 BERM PLANTING

SCALE: 1"=10'



LOT : 2
16004.58 SQ FT
0.37 ACRES

BERM PLANTING NOTES:

- TREES QUANTITIES = 1 TREE / 12 LINEAR FEET OF BERM
- SHRUB QUANTITIES = 1 SHRUB / 10 LINEAR FEET OF BERM.
- ALL PLANT MATERIAL SHALL CONFORM TO THE MINIMUM GUIDELINES ESTABLISHED BY THE AMERICAN STANDARD FOR NURSERY STOCK PUBLISHED BY THE AMERICAN NURSERY ASSOCIATION, INC.
- ANY PROPOSED SUBSTITUTIONS OF PLANT SPECIES SHALL BE MADE WITH PLANTS OF EQUIVALENT OVERALL FORM, HEIGHT, BRANCHING HABIT, FLOWER, LEAF, COLOR, FRUIT, SOLAR NEEDS, WATER NEEDS, AND CULTURE ONLY AS APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
- ALL PLANT MATERIAL TO BE INSTALLED PER DETAIL DRAWINGS INCLUDING THE APPLICATION OF AGRIFORM PLANTING TABLETS PER MANUFACTURER RECOMMENDED APPLICATION RATES.
- 30-FT WIDTH OF BERM TO RECEIVE 3-INCH DEPTH OF SHREDDED BARK MULCH & TO BE REPLENISHED ON A 3-YEAR BASIS WITH 2 ADDITIONAL INCHES.

PLANT SCHEDULE LOT 2

| TREES | | CODE | QTY | BOTANICAL NAME / COMMON NAME | CONT | CAL | SIZE |
|--------|--|------|-----|---|-----------|-----|---------|
| | | AP | 1 | Acer truncatum 'Pacific Sunset' TM / Pacific Sunset Maple | Container | | 1.5" |
| | | PB2 | 2 | Picea pungens glauca / Colorado Blue Spruce | B & B | | 4' - 5' |
| | | PL2 | 2 | Pinus flexilis / Limber Pine | B & B | | 4' - 5' |
| | | TCC | 1 | Tilia cordata 'Corinthian' / Corinthian Littleleaf Linden | Container | | 1.5" |
| SHRUBS | | CODE | QTY | BOTANICAL NAME / COMMON NAME | CONT | | |
| | | CA | 2 | Cornus alba 'Baihalo' / Ivory Halo Dogwood | 5 gal | | |
| | | EC | 3 | Euonymus alatus 'Compactus' / Compact Burning Bush | 5 gal | | |
| | | FG | 2 | Forsythia x 'Gold Cluster' / Forsythia | 5 gal | | |
| | | PPB | 2 | Pinus mugo 'Pumilio' / Mugo Pine | 5 gal | | |

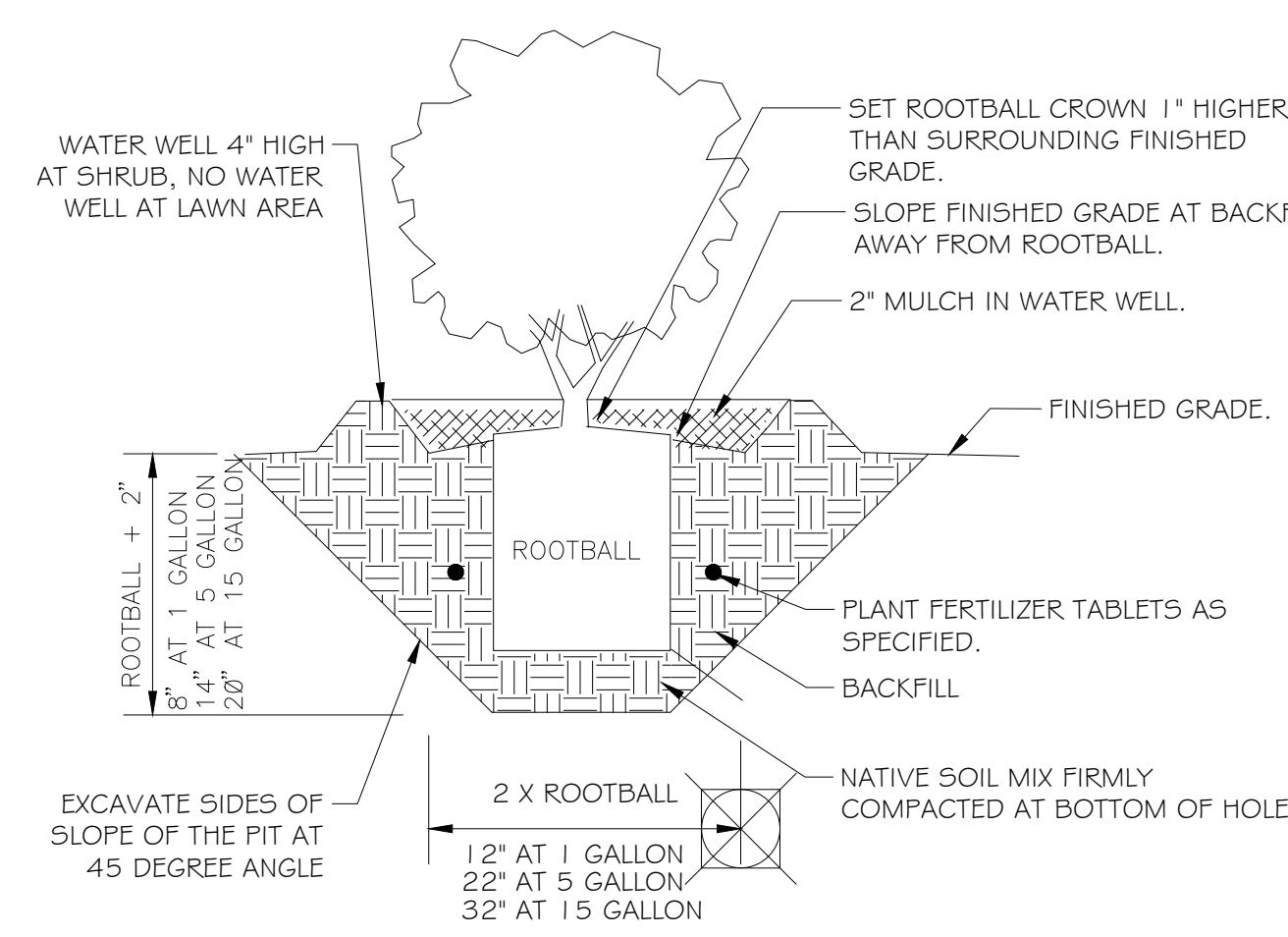
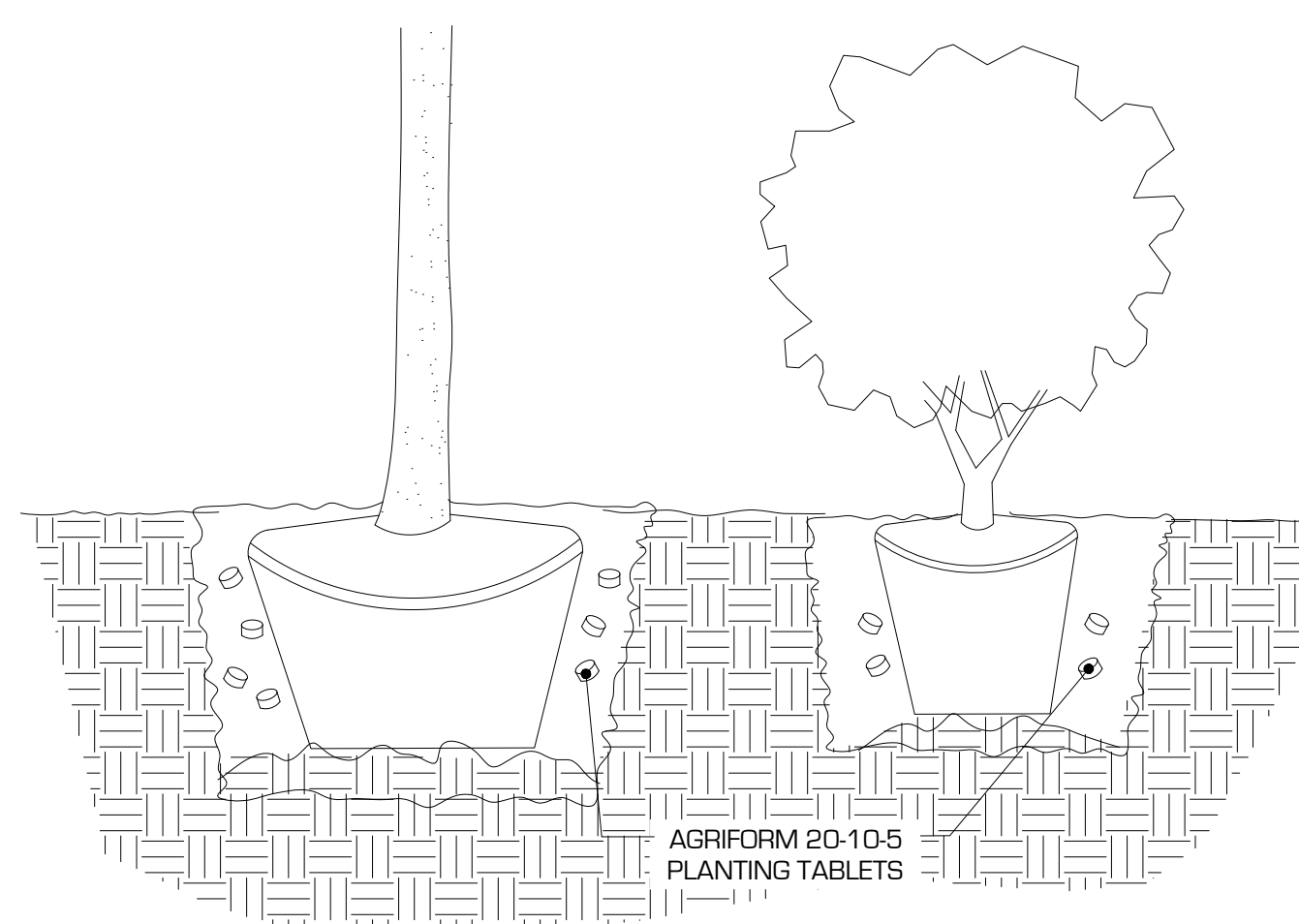
AGRIFORM® 20-10-5 PLANTING TABLETS PLUS MINORS

| SUGGESTED APPLICATION RATES | | | | | | | |
|--|-----------------------------|--------|--------|-----------|-----------|-----------|---------------------|
| Agriform® 21-gm Tablets (SKU= E90026*, G90026) (*available in Canada SKU= E98355) | | | | | | | |
| | Tree / Shrub Container Size | | | | | | |
| | 1 gal | 2 gal | 3 gal | 5 gal | 7 gal | 15 gal | 24" box |
| Installation | 1 | 1 to 2 | 2 to 3 | 2 to 3 | 3 to 5 | 7 to 10 | 15 to 24 |
| Maintenance Rates for Established Plantings (Plant Height or Spread) | | | | | | | |
| | 18" or less | 18-36" | 36-54" | 4.5-6 ft. | 6-7.5 ft. | 7.5-9 ft. | Each additional 18" |
| Slow Growing | 1 | 1 to 2 | 2 to 3 | 3 to 4 | 4 to 5 | 5 to 6 | add 1 |
| Fast Growing | 2 | 2 to 4 | 4 to 6 | 6 to 8 | 8 to 10 | 10 to 12 | add 1 |
| Agriform® 10-gm Tablets (SKU= E90805, G90805) Application Rate for Well-Rooted Liners (Quart to gallon size) | | | | | | | |
| 1 to 2 tablets for each plant | | | | | | | |
| Agriform® 5-gm Tablets (SKU= E90915, G90915) Application Rate for Small Ground Cover/Perennials (Quart size or smaller) | | | | | | | |
| 1 tablet for each plant | | | | | | | |

Always refer to label instructions before application

BID SPECIFICATIONS:

PLANTING TABLET SHALL BE TIGHTLY COMPRESSED, LONG LASTING AND SLOW RELEASE. WEIGHTS OF 5, 10, AND 21 GRAMS WITH A NITROGEN (N), PHOSPHORUS (P), AND POTASSIUM (K) ANALYSIS OF 20-10-5 AND TRACE ELEMENTS DERIVED FROM THE SOURCES LISTED IN THE GUARANTEED ANALYSIS.



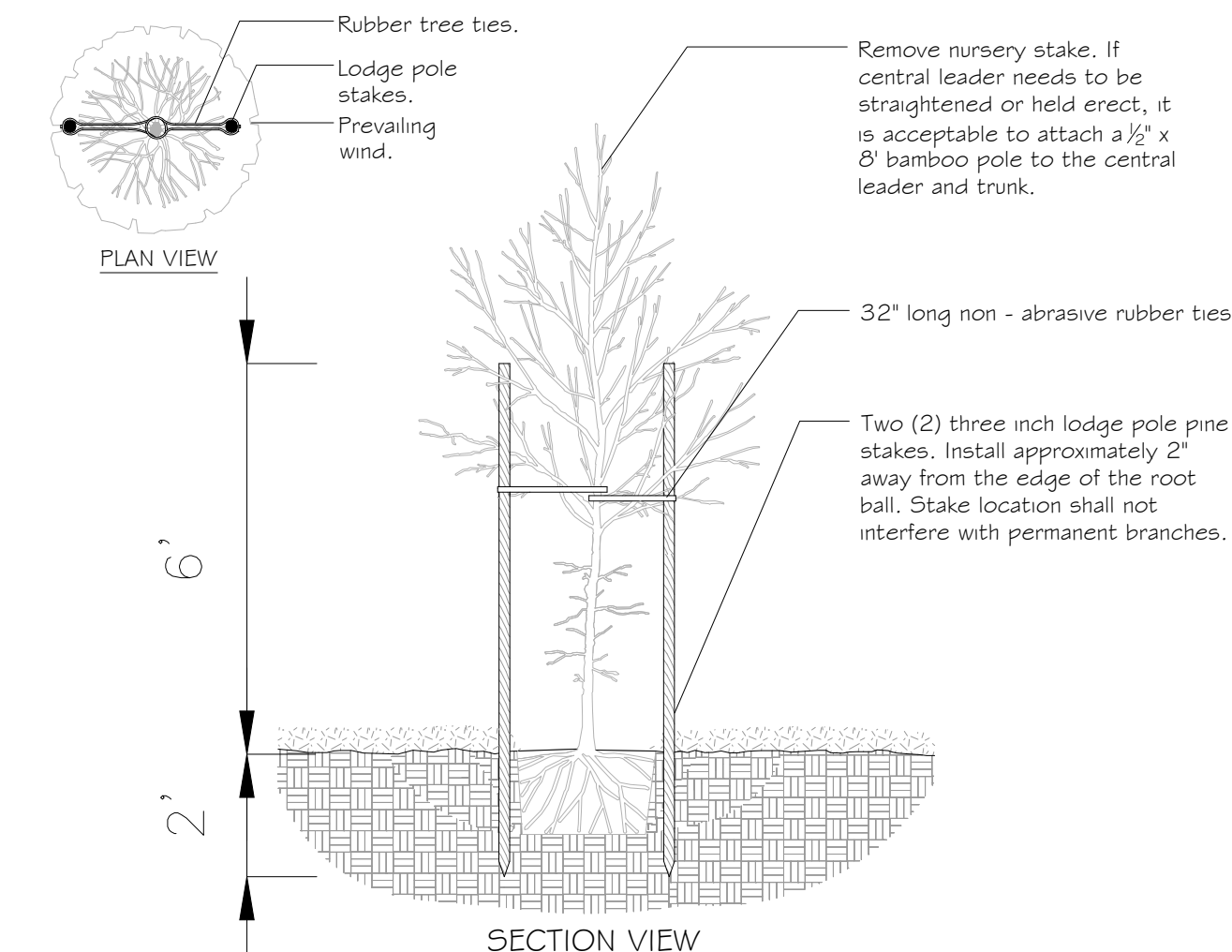
Notes:
1- Trees shall be of quality prescribed in crown observations and root observations details and specifications.
2- See specifications for further requirements related to this detail.

Trunk caliper shall meet ANSI Z60 current edition for root ball size.
Root ball modified as required.

Round-topped soil berm 4" high x 8" wide about root ball surface shall be centered on the diameter side of the root ball for 240".
Berm shall begin at root ball periphery.

Modified soil. Depth varies. (See soil preparation plan).

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4 TREE DOUBLE STAKING

NOT TO SCALE

329343-06

| | | |
|--------------|--------------|-----------|
| MARK: | DESCRIPTION: | |
| DATE: | | |
| PROJECT #: | | 17099 |
| REVIEWER: | | KALTHOUSE |
| DESIGNED BY: | | M.POWELL |
| ISSUED: | | 12.6.2017 |



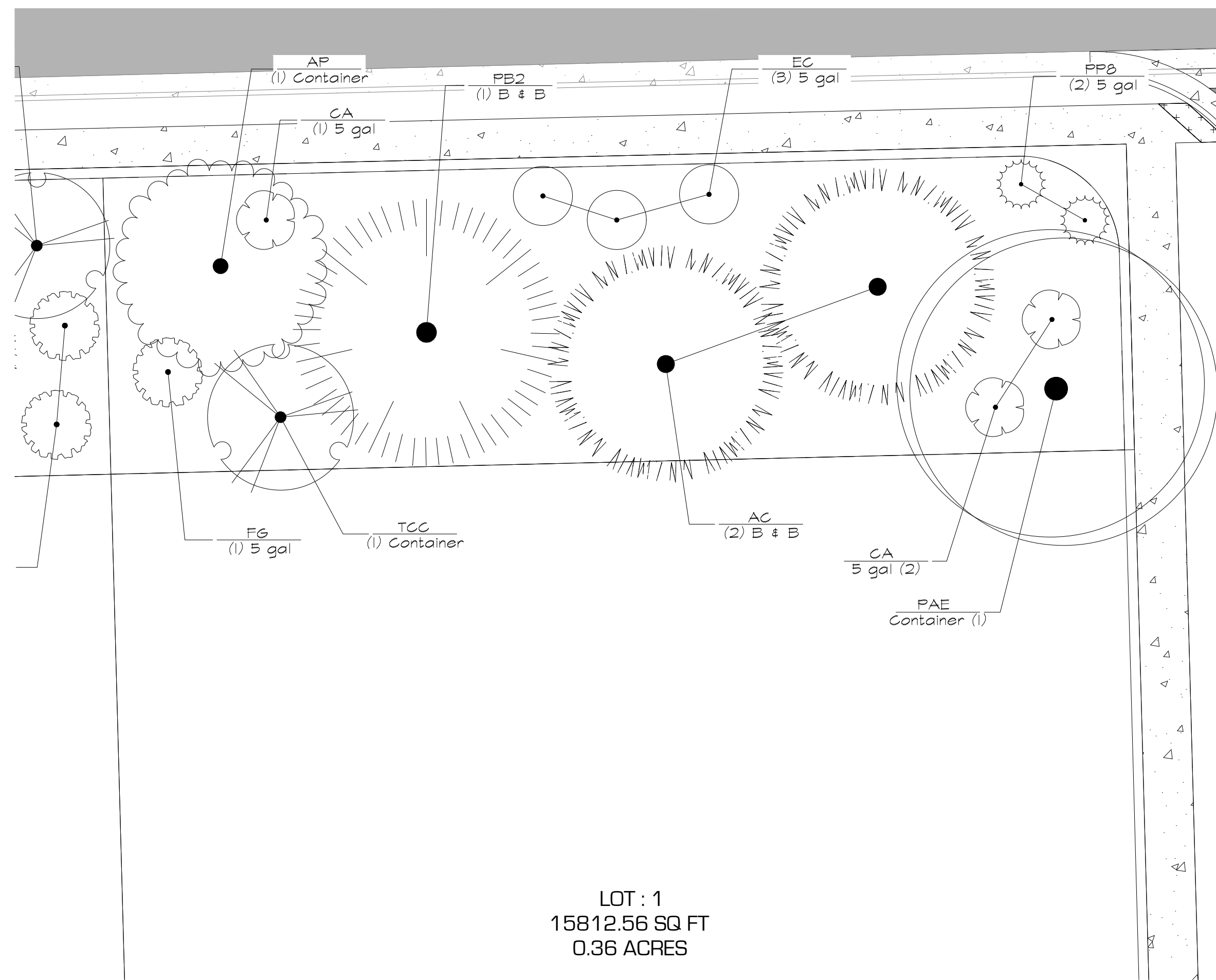
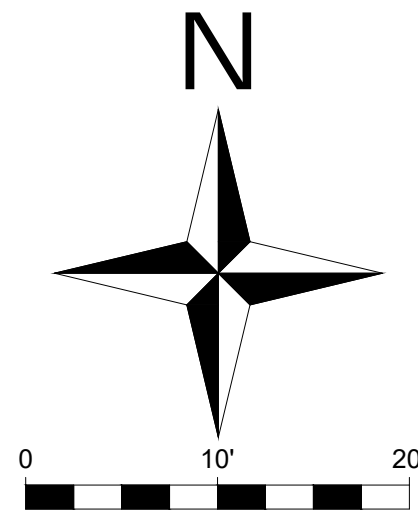
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MEADOW CREEK PARK & BERM LOT 1 BERM PLANTING

SCALE: 1"=10'



LOT : 1
15812.56 SQ FT
0.36 ACRES

PLANT SCHEDULE LOT 1

| TREES | CODE | QTY | BOTANICAL NAME / COMMON NAME | CONT | CAL | SIZE |
|--------|------|-----|--|-----------|-----|---------|
| | AC | 2 | Abies concolor / White Fir | B & B | | 4' - 5' |
| | AP | 1 | Acer truncatum 'Pacific Sunset' TM / Pacific Sunset Maple | Container | | 1.5" |
| | PB2 | 1 | Picea pungens glauca / Colorado Blue Spruce | B & B | | 4' - 5' |
| | PAE | 1 | Platanus acerifolia 'Exclamation!' / Exclamation! Plane Tree | Container | | 1.5" |
| | TCC | 1 | Tilia cordata 'Corinthian' / Corinthian Littleleaf Linden | Container | | 1.5" |
| SHRUBS | CODE | QTY | BOTANICAL NAME / COMMON NAME | CONT | | |
| | CA | 3 | Cornus alba 'Baihalo' / Ivory Halo Dogwood | 5 gal | | |
| | EC | 3 | Euonymus alatus 'Compactus' / Compact Burning Bush | 5 gal | | |
| | FG | 1 | Forsythia x 'Gold Cluster' / Forsythia | 5 gal | | |
| | PPB | 2 | Pinus mugo 'Pumilio' / Mugo Pine | 5 gal | | |

AGRIFORM® 20-10-5 PLANTING TABLETS PLUS MINORS

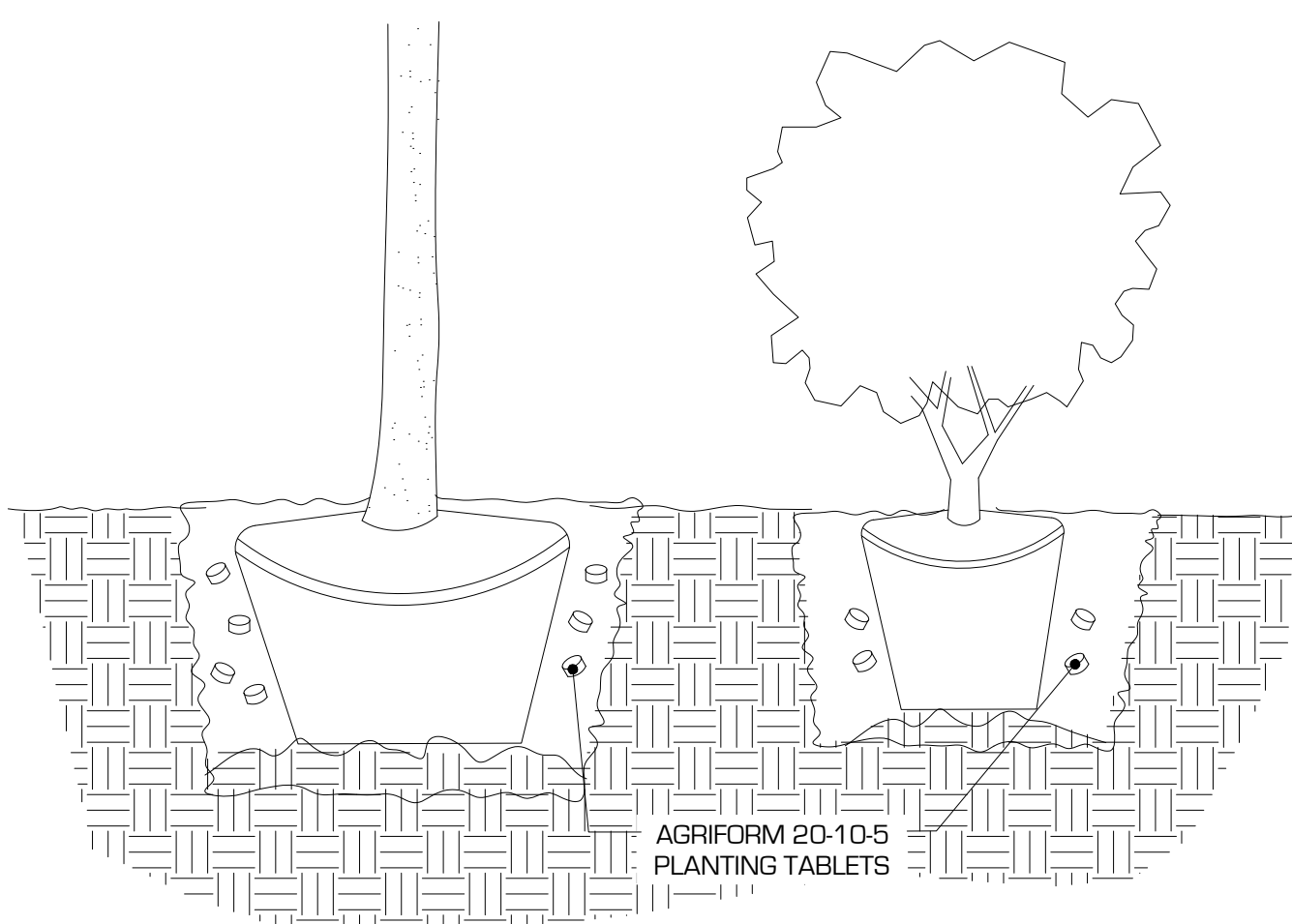
| SUGGESTED APPLICATION RATES | | | | | | | |
|--|-----------------------------|--------|--------|-----------|-----------|-----------|---------------------|
| Agriform® 21-gm Tablets (SKU= E90026*, G90026) (*available in Canada SKU= E98355) | | | | | | | |
| | Tree / Shrub Container Size | | | | | | |
| | 1 gal | 2 gal | 3 gal | 5 gal | 7 gal | 15 gal | 24" box |
| Installation | 1 | 1 to 2 | 2 to 3 | 2 to 3 | 3 to 5 | 7 to 10 | 15 to 24 |
| Maintenance Rates for Established Plantings (Plant Height or Spread) | | | | | | | |
| | 18" or less | 18-36" | 36-54" | 4.5-6 ft. | 6-7.5 ft. | 7.5-9 ft. | Each additional 18" |
| Slow Growing | 1 | 1 to 2 | 2 to 3 | 3 to 4 | 4 to 5 | 5 to 6 | add 1 |
| Fast Growing | 2 | 2 to 4 | 4 to 6 | 6 to 8 | 8 to 10 | 10 to 12 | add 1 |
| Agriform® 10-gm Tablets (SKU= E90805, G90805) Application Rate for Well-Rooted Liners (Quart to gallon size) | | | | | | | |
| 1 to 2 tablets for each plant | | | | | | | |
| Agriform® 5-gm Tablets (SKU= E90915, G90915) Application Rate for Small Ground Cover/Perennials (Quart size or smaller) | | | | | | | |
| 1 tablet for each plant | | | | | | | |

Always refer to label instructions before application

PHOTO COURTESY

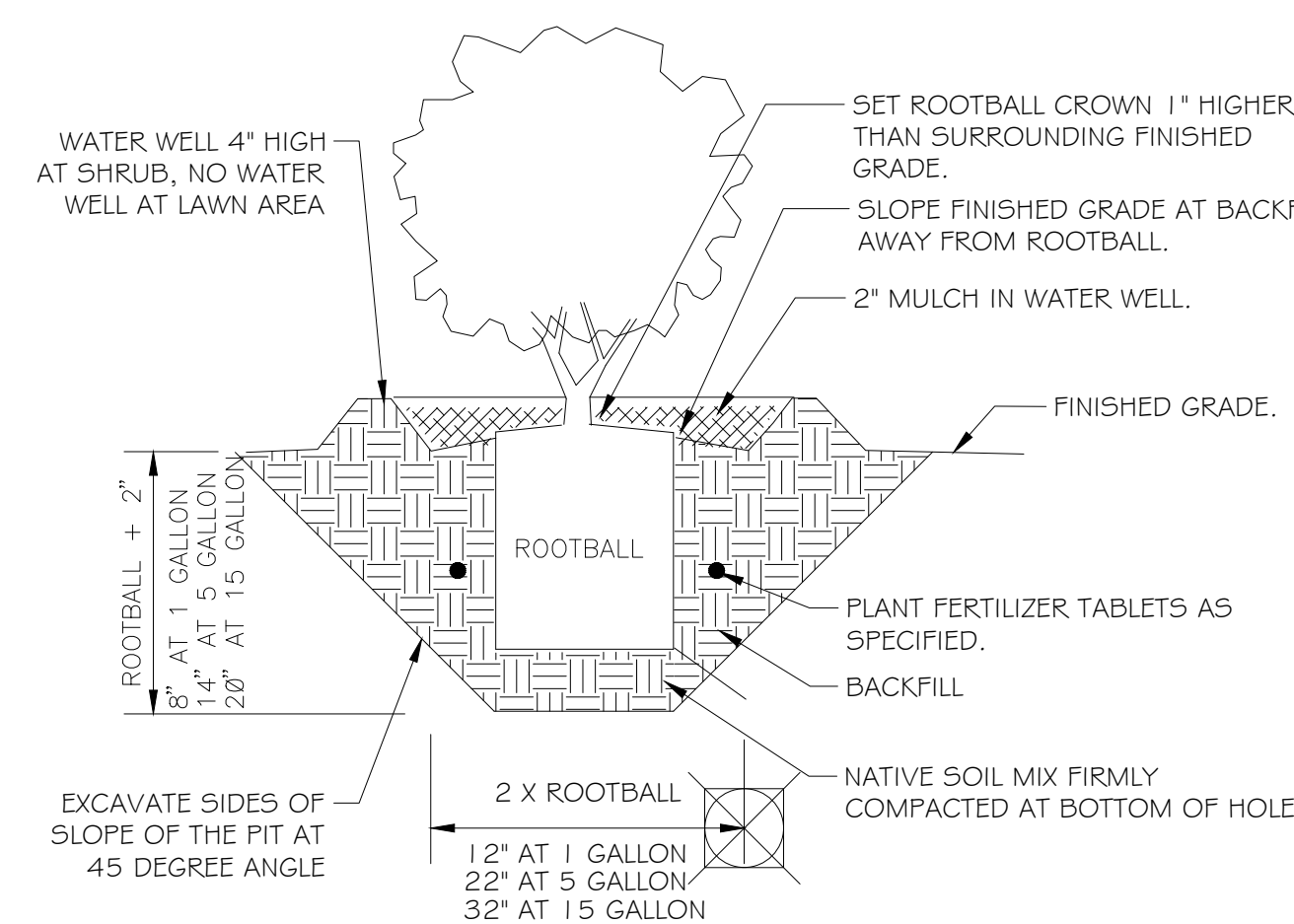
BID SPECIFICATIONS:

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BERM PLANTING NOTES:

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- 30-FT WIDTH OF BERM TO RECEIVE 3-INCH DEPTH OF SHREDDED BARK MULCH & TO BE REPLENISHED ON A 3-YEAR BASIS WITH 2 ADDITIONAL INCHES.



- Notes:
- Trees shall be of quality prescribed in crown observations and root observations details and specifications.
 - See specifications for further requirements related to this detail.

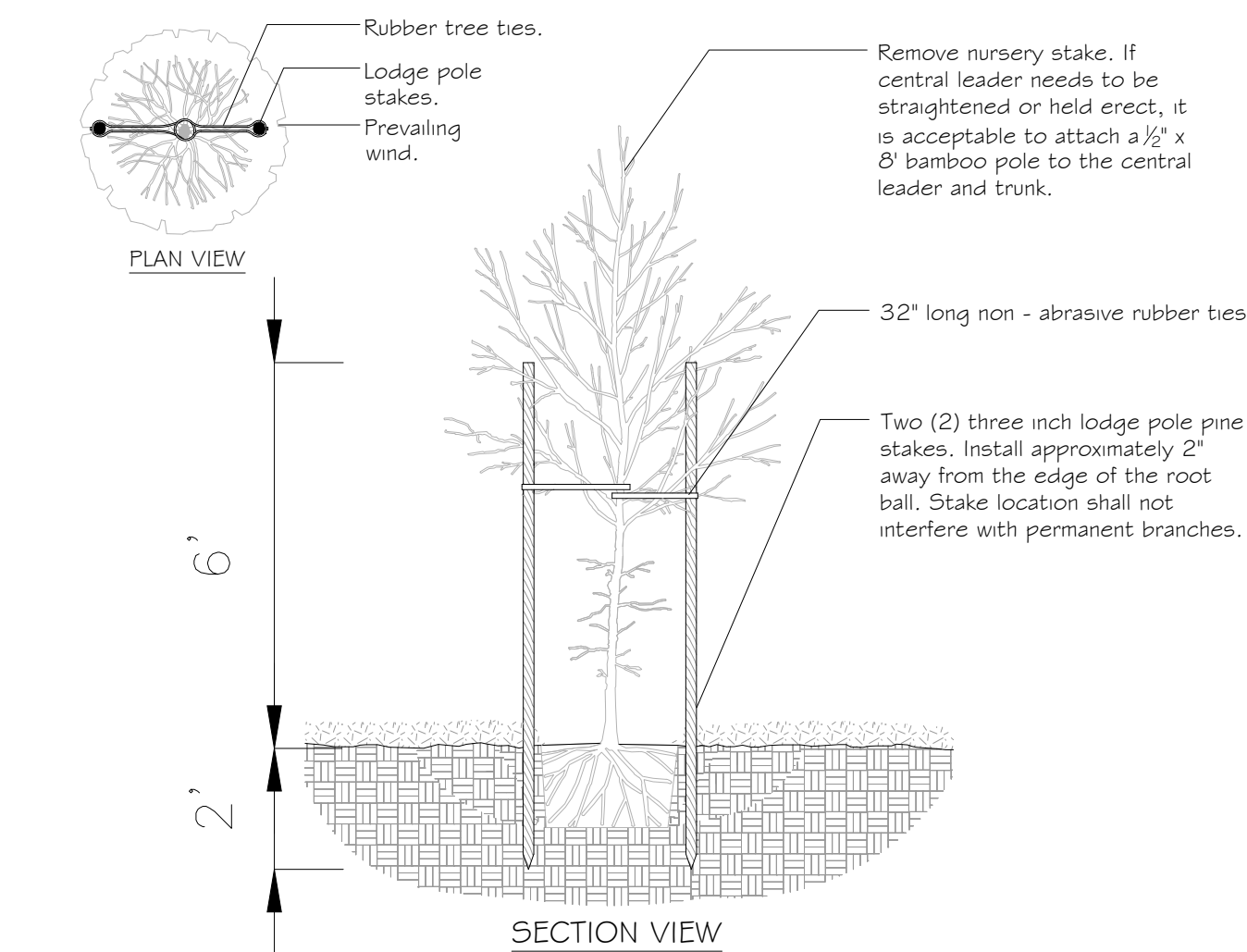
Trunk caliper shall meet ANSI Z602 current edition for root ball size.

Round-topped soil berm 4" high x 8" wide about root ball surface shall be centered on the diameter side of the root ball for 240°. Berm shall begin at root ball periphery.

Modified soil. Depth varies. (See soil preparation plan).

3 TREE PLANTING ON SLOPE

NOT TO SCALE



4 TREE DOUBLE STAKING

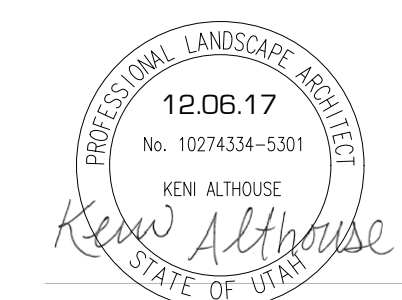
NOT TO SCALE

329343-06



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UTAH VALLEY | P: 801.874.1432
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| | | |
|--------------|--------------|-----------|
| MARK: | DESCRIPTION: | |
| DATE: | | |
| PROJECT #: | | 17099 |
| REVIEWER: | | KALTHOUSE |
| DESIGNED BY: | | M.POWELL |
| ISSUED: | | 12.6.2017 |



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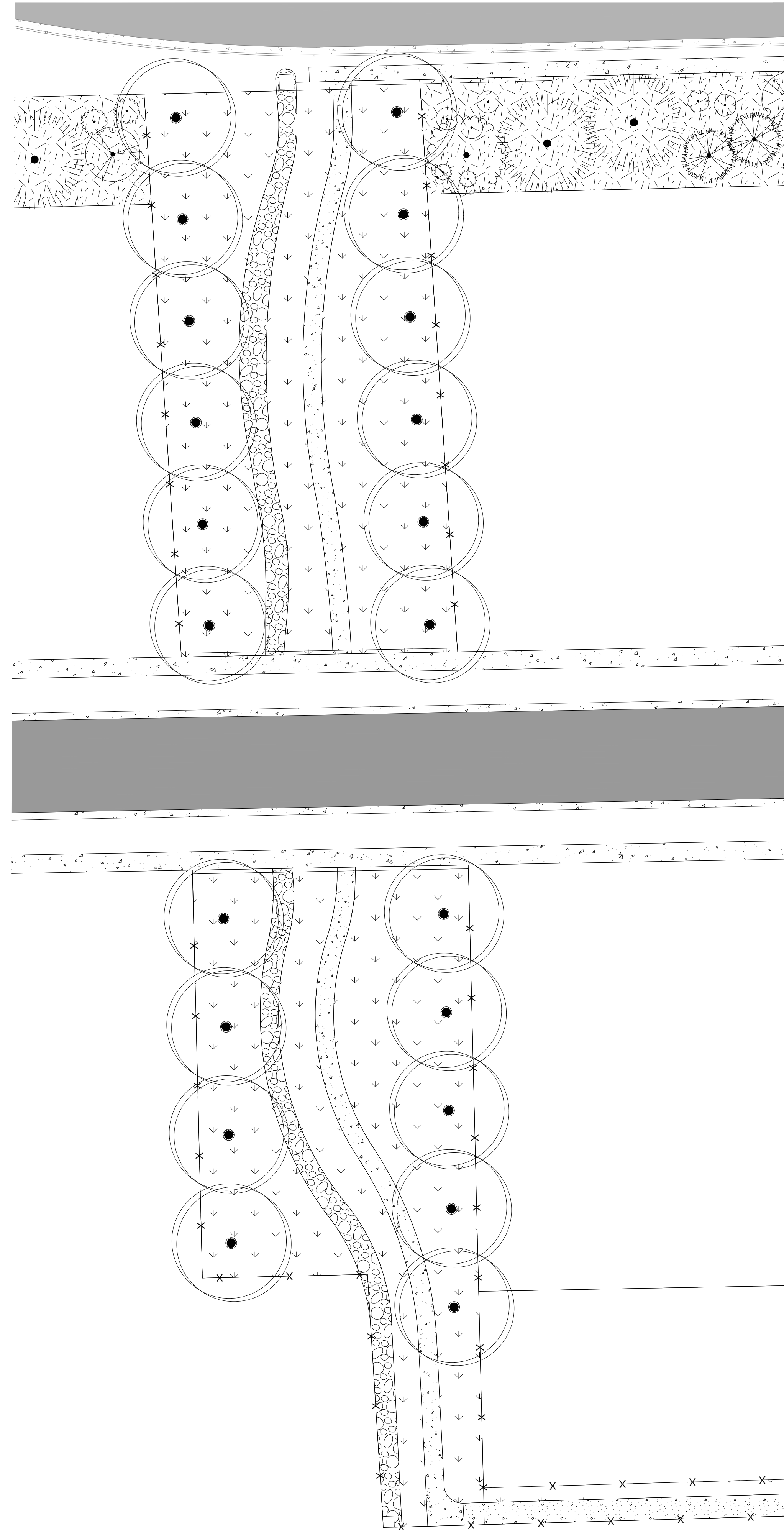
LOT 1 BERM PLANTING

L-106

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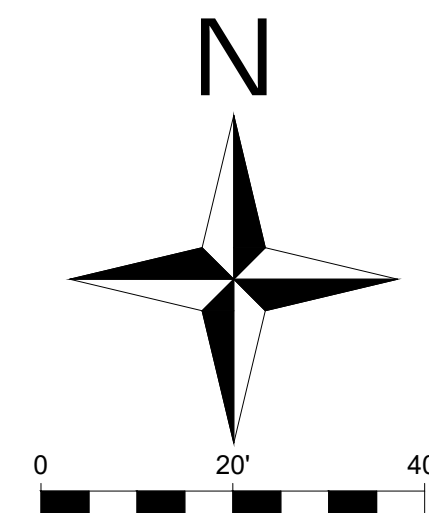
MEADOW CREEK PARK & BERM PARK PLANTING PLAN

SCALE: 1"=20'



PLANT SCHEDULE PARK

| TREES | CODE | QTY | BOTANICAL NAME / COMMON NAME | CONT | CAL |
|--|---|-----|--|-----------|-----------|
| | PAE | 21 | Platanus acerifolia 'Exclamation!' / Exclamation! Plane Tree | Container | 1.5" |
| DESCRIPTION | | | | | QTY |
| | TURF GRASS: SOD OVER 6-INCHES OF TOPSOIL | | | | 18,946 sf |
| | PLANTED BERM: 3-INCH DEPTH OF SHREDDED BARK MULCH OVER 6-INCHES OF TOPSOIL | | | | 21,384 sf |
| | TREE RING: 3-INCH DEPTH OF SHREDDED BARK MULCH WITH TRENCH EDGE | | | | 148 sf |
| WOOD RAIL FENCE PER OWNER | | | | | 1,131 lf |
| | CANAL: 6-INCH DEPTH OF GREY COLORED RIP RAP TO PREVENT EROSION | | | | 1,980 sf |
| | 5-FT CONCRETE SIDEWALK | | | | 1,745 sf |
| | 6-FT GRAVEL TRAIL | | | | 1,256 sf |
| 6-INCH BLACK METAL EDGING: PLACED BETWEEN GRAVEL TRAIL & TURF GRASS | | | | | 210 lf |



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www.civilsolutionsgroup.net

MEADOW CREEK SUBDIVISION
PARK & BERM LANDSCAPE PLAN
150 EAST 3850 SOUTH
NIBLEY, UTAH 84321

| MARK: | DATE: | DESCRIPTION: |
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PROJECT #: 17099
REVIEWER: KALTHOUSE
DESIGNED BY: M.POWELL
ISSUED: 12.6.2017

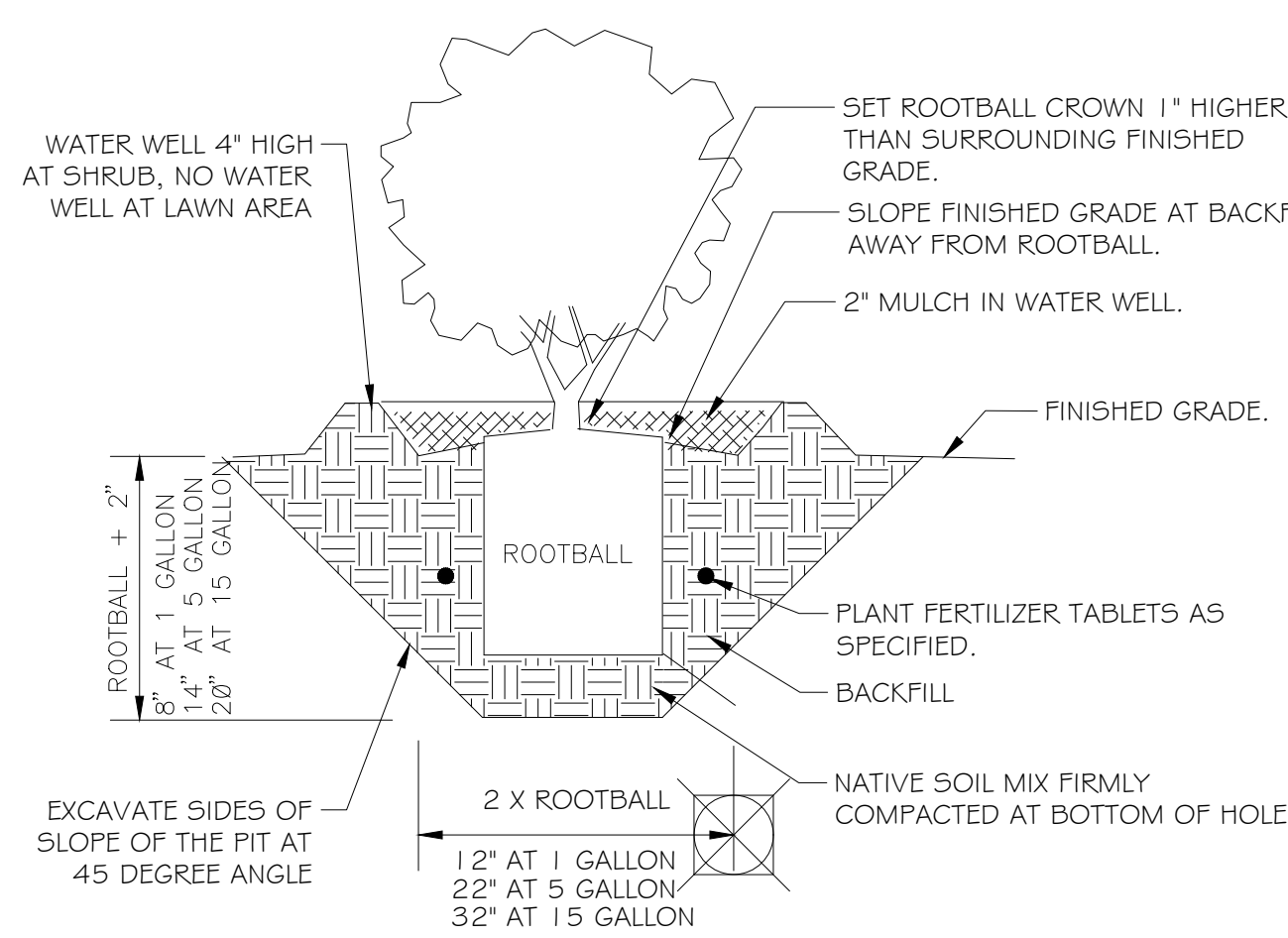


PARK
PLANTING
PLAN

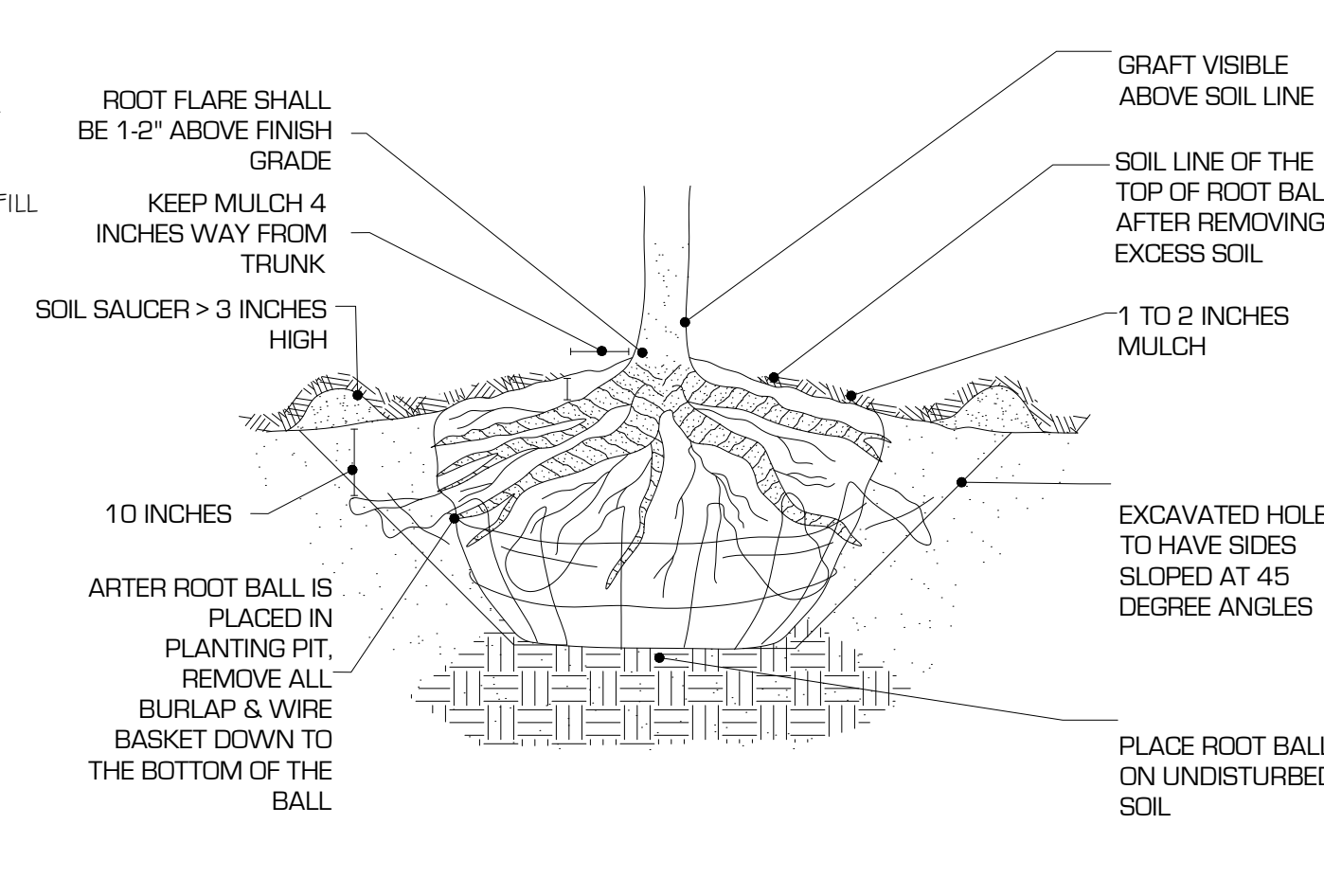
L-108

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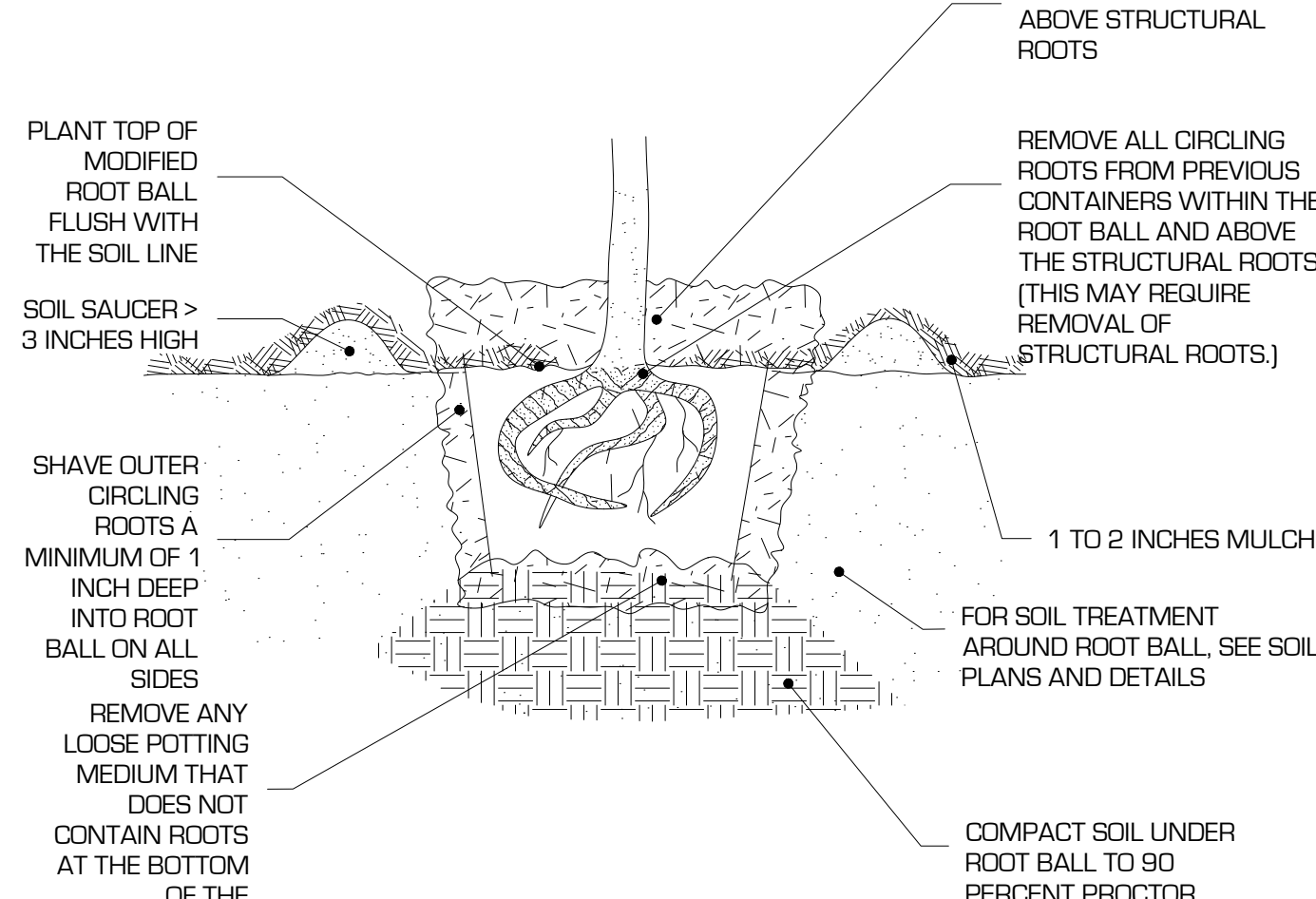
MEADOW CREEK PARK & BERM DETAILS & NOTES



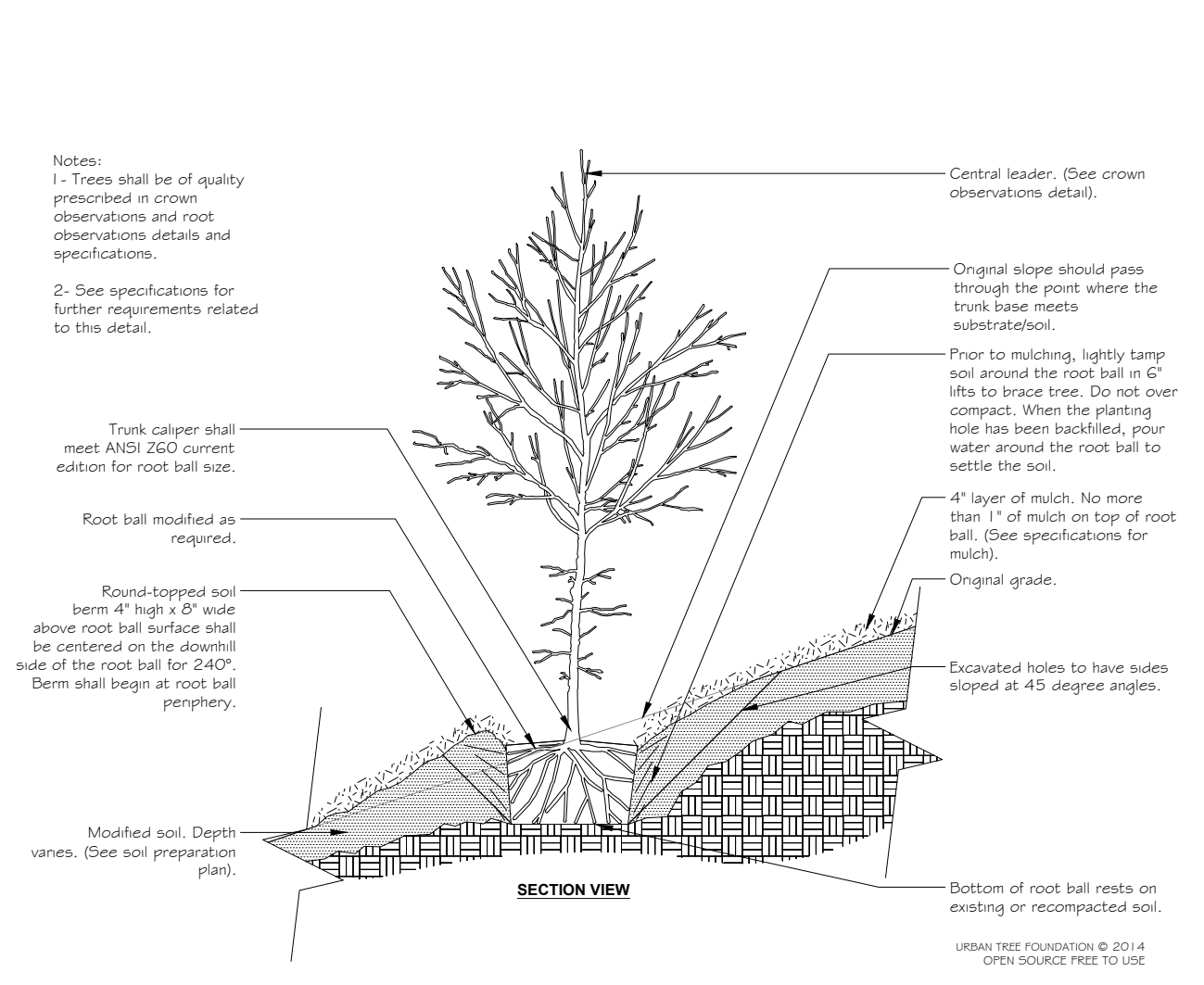
1 SHRUB PLANTING
NOT TO SCALE 329333.13-01



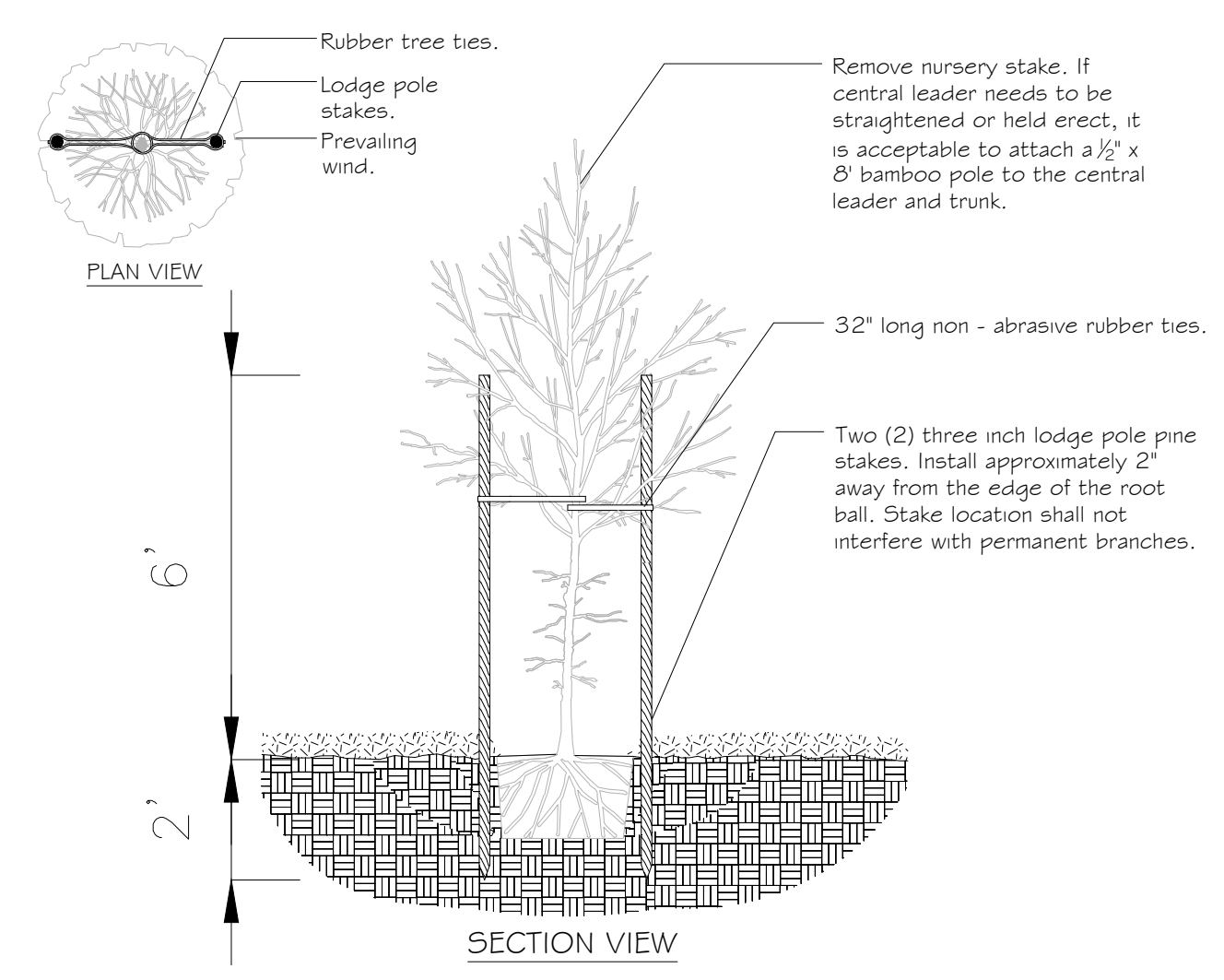
2 TYPICAL TREE B&B PLANTING DETAIL
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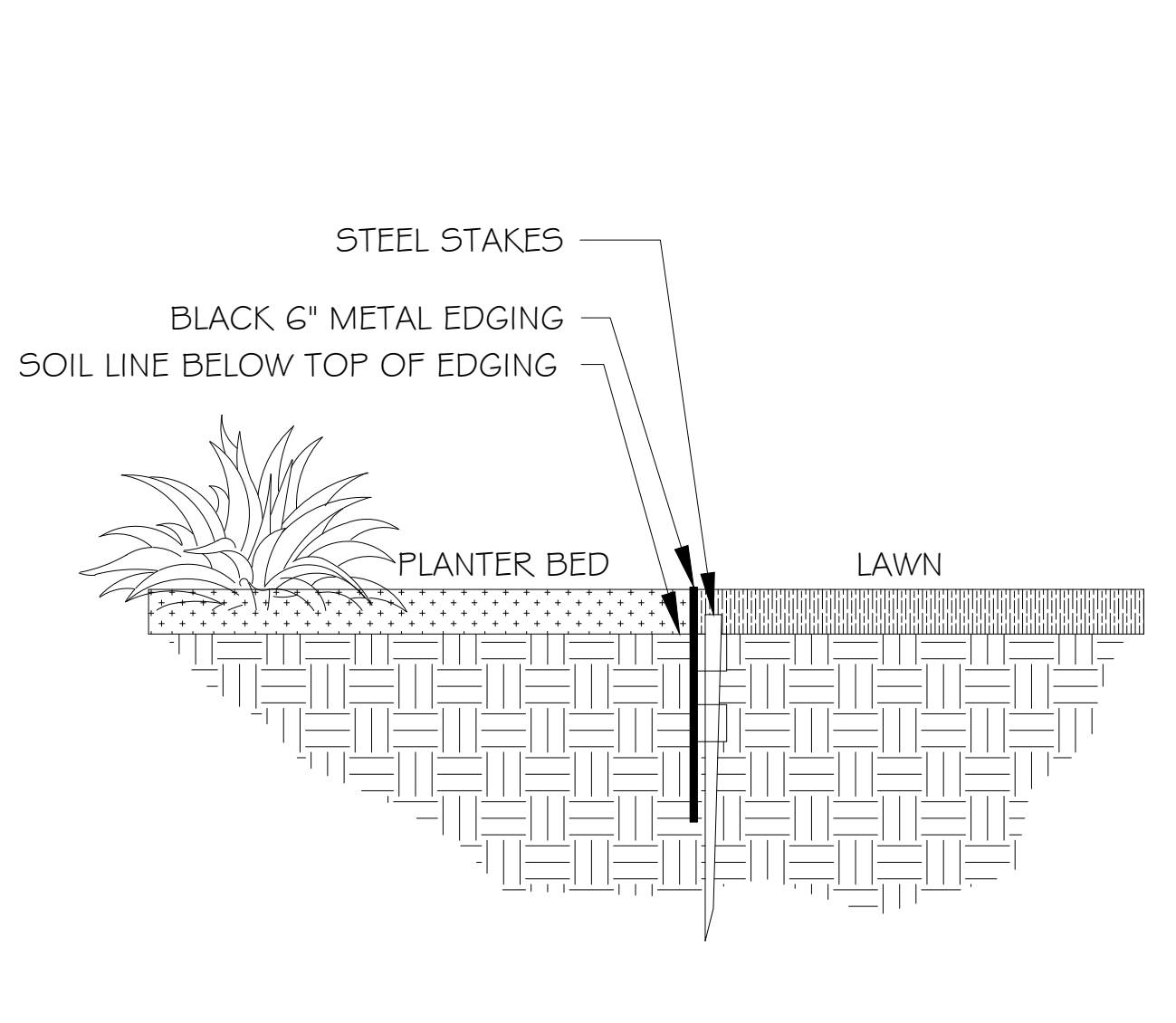
3 TREE CONTAINER PLANTING DETAIL
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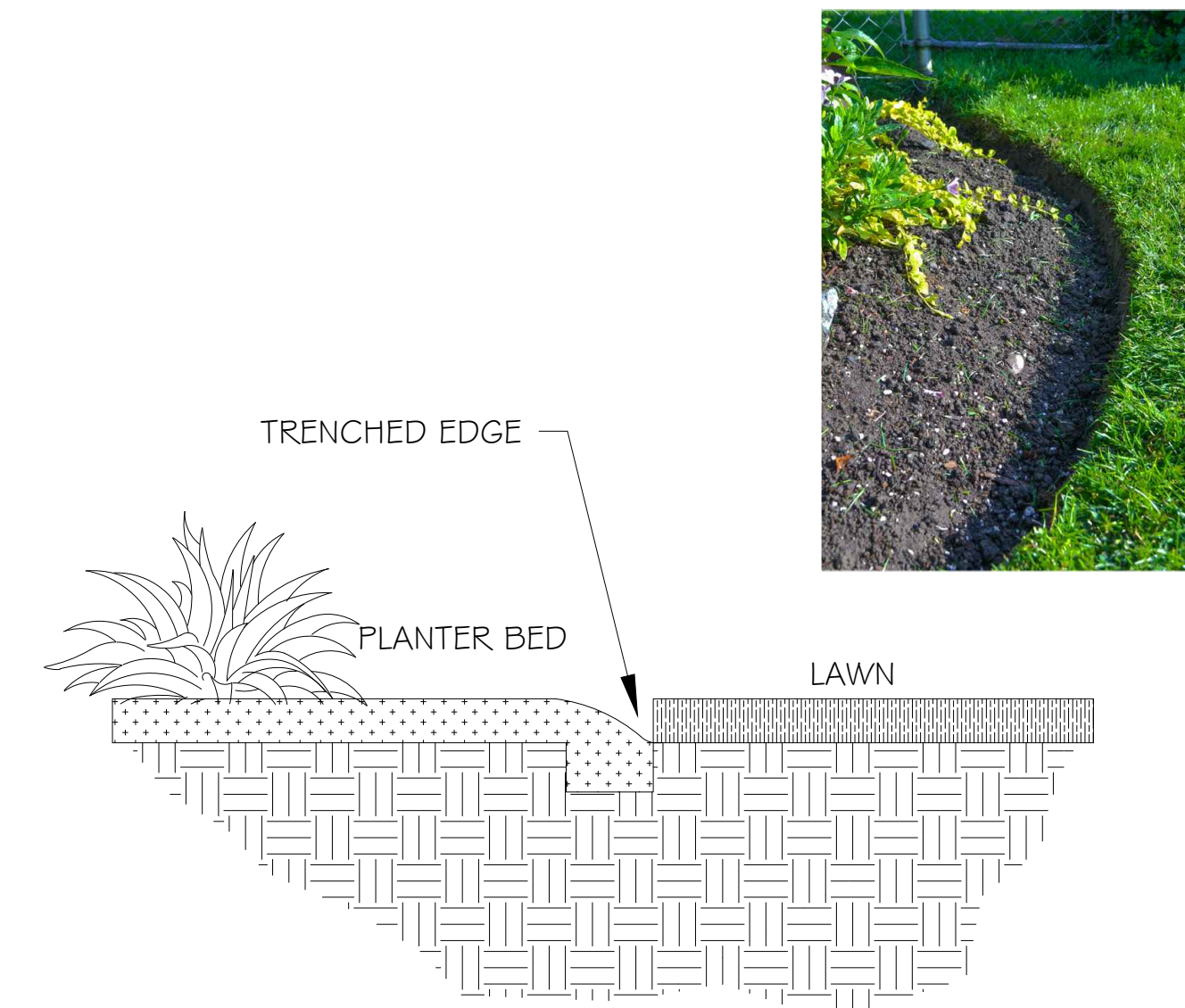
4 TREE PLANTING ON SLOPE
NOT TO SCALE 329343-08



5 TREE DOUBLE STAKING
NOT TO SCALE 329343-06



6 6" BLACK METAL EDGING AT PLANTER/LAWN EDGE
NOT TO SCALE 329413.23-05

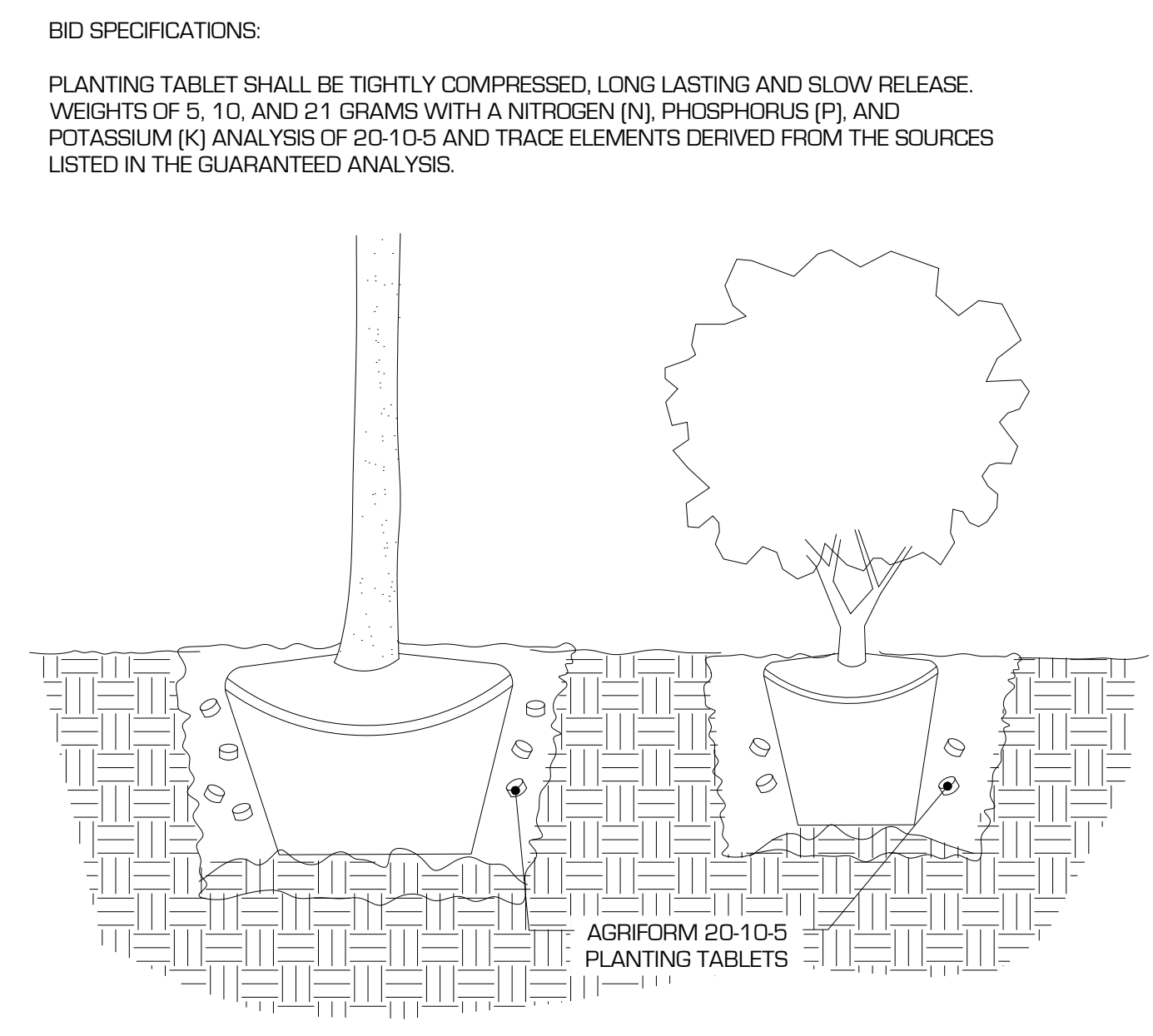


7 TRENCHED EDGE PLANTER/LAWN
NOT TO SCALE 329413.23-07

AGRIFORM® 20-10-5 PLANTING TABLETS PLUS MINORS

| SUGGESTED APPLICATION RATES | | | | | | | |
|--|-------------|--------|--------|-----------|-----------|-----------|---------------------|
| Agriform® 21-gm Tablets (SKU# E90026*, G90026) (*available in Canada SKU# E98355) | | | | | | | |
| Tree / Shrub Container Size | | | | | | | |
| | 1 gal | 2 gal | 3 gal | 5 gal | 7 gal | 15 gal | 24" box |
| Installation | 1 | 1 to 2 | 2 to 3 | 2 to 3 | 3 to 5 | 7 to 10 | 15 to 24 |
| Maintenance Rates for Established Plantings (Plant Height or Spread) | | | | | | | |
| | 18" or less | 18-36" | 36-54" | 4.5-6 ft. | 6-7.5 ft. | 7.5-9 ft. | Each additional 18" |
| Slow Growing | 1 | 1 to 2 | 2 to 3 | 3 to 4 | 4 to 5 | 5 to 6 | add 1 |
| Fast Growing | 2 | 2 to 4 | 4 to 6 | 6 to 8 | 8 to 10 | 10 to 12 | add 1 |
| Agriform® 10-gm Tablets (SKU# E90805, G90805) Application Rate for Well-Rooted Liners (Quart to gallon size) | | | | | | | |
| 1 to 2 tablets for each plant | | | | | | | |
| Agriform® 5-gm Tablets (SKU# E90915, G90915) Application Rate for Small Ground Cover/Perennials (Quart size or smaller) | | | | | | | |
| 1 tablet for each plant | | | | | | | |

Always refer to label instructions before application



8 AGRIFORM 20-10-5 PLANTING TABLETS
NOT TO SCALE 3293-01

NOTES & SPECIFICATIONS:

GENERAL NOTES:

- CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE DRAWING WITH ACTUAL FIELD CONDITIONS PRIOR TO BEGINNING ANY WORK AND IMMEDIATELY NOTIFYING THE OWNER OF ANY DISCREPANCIES. IN THE EVENT THAT THE CONTRACTOR BEGINS WORK PRIOR TO VERIFYING AND COMPARING THE BASE INFORMATION WITH ACTUAL FIELD CONDITIONS, THEN ANY CHANGES OR ALTERATIONS TO THE WORK INVOLVED WITH THESE DRAWINGS DUE TO SUCH DISCREPANCIES WILL BE PERFORMED BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER.
- THE CONTRACTOR SHALL LOCATE AND VERIFY ALL EXISTING UTILITY LINES PRIOR TO SITE WORK AND PLANTING AND SHALL REPORT ANY CONFLICTS TO THE OWNER.
- REFER TO LEGENDS, NOTES, AND DETAILS FOR FURTHER INFORMATION.
- AT THE END OF EACH DAY ALL TRASH AND DEBRIS SHALL BE CLEANED UP. ALL PAVEMENT AND WALKS SHALL BE SWEEPED CLEAN. BEFORE COMPLETING THE PROJECT THE ENTIRE SITE SHALL BE CLEANED TO THE OWNER'S REP APPROVAL INCLUDING NO TRASH AND ALL HARD SURFACES SHALL BE CLEANED.

PLANTING NOTES:

- ALL PLANT MATERIAL SHALL CONFORM TO THE MINIMUM GUIDELINES ESTABLISHED BY THE AMERICAN STANDARD FOR NURSERY STOCK PUBLISHED BY THE AMERICAN NURSERY ASSOCIATION, INC.
- ANY PROPOSED SUBSTITUTIONS OF PLANT SPECIES SHALL BE MADE WITH PLANTS OF EQUIVALENT OVERALL FORM, HEIGHT, BRANCHING HABIT, FLOWER, LEAF, COLOR, FRUIT, SOLAR NEEDS, WATER NEEDS, AND CULTURE ONLY AS APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
- ALL PLANT LOCATIONS SHALL BE APPROVED BY THE OWNER ON-SITE PRIOR TO PLANTING.
- NEW GRASS AREAS SHALL RECEIVE 8" OF QUALITY SANDY LOAM TOP SOIL, AND ALL NEW PLANT BEDS SHALL RECEIVE 12" OF PLANTING SOIL MIX. BACKFILL ALL PLANTING PITS WITH PLANTING SOIL MIX.
- PLANT QUALITY AT OR BELOW THE SOIL LINE:
 - A MINIMUM OF THREE STRUCTURAL ROOTS REASONABLY DISTRIBUTED AROUND THE TRUNK SHALL BE FOUND IN EACH PLANT. PLANTS WITH STRUCTURAL ROOTS ON ONLY ONE SIDE OF THE TRUNK (J ROOTS) SHALL BE REJECTED.
 - THE ROOT CROWN MUST NOT BE MORE THAN TWO INCHES BELOW THE SOIL LINE. THE TOP TWO STRUCTURAL ROOTS SHALL BE NO MORE THAN THREE INCHES BELOW THE SOIL LINE WHEN MEASURED FOUR INCHES RADIAL TO THE TRUNK. THE TOP OF THE OTHER STRUCTURAL ROOT SHALL BE NO GREATER THAN FIVE INCHES BELOW THE SOIL LINE WHEN MEASURED FOUR INCHES RADIAL TO THE TRUNK. THE GROWER MAY REQUEST A MODIFICATION TO THIS REQUIREMENT FOR SPECIES WITH ROOTS THAT RAPIDLY DESCEND, PROVIDED THAT THE GROWER REMOVES ALL CIRCLING ROOTS ABOVE THE STRUCTURAL ROOTS ACROSS THE TOP OF THE STRUCTURAL ROOTS.
 - THE ROOT SYSTEM SHALL BE REASONABLY FREE OF ROOT DEFECTS INCLUDING POTENTIALLY STEM-GIRDLING ROOTS ABOVE THE ROOT COLLAR AND MAIN STRUCTURAL ROOTS, VERTICAL ROOTS, AND/OR KINKED ROOTS FROM NURSERY PRODUCTION PRACTICES, INCLUDING ROOTS ON THE INTERIOR OF THE ROOT BALL.
 - REASONABLE AND REASONABLY WHEN USED IN THIS SPECIFICATION RELATIVE TO PLANT QUALITY ARE INTENDED TO MEAN THAT THE CONDITIONS CITED WILL NOT AFFECT THE ESTABLISHMENT OR LONG-TERM STABILITY, HEALTH, OR GROWTH OF THE PLANT. THIS SPECIFICATION RECOGNIZES THAT IT IS NOT POSSIBLE TO PRODUCE PLANTS FREE OF ALL DEFECTS AND THAT SOME DECISIONS CANNOT BE TOTALLY BASED ON MEASURED FINDINGS, SO PROFESSIONAL JUDGEMENT IS REQUIRED. IN CASES OF DIFFERING OPINION, THE LANDSCAPE ARCHITECT SHALL DETERMINE WHEN CONDITIONS WITHIN THE PLANT ARE JUDGED AS REASONABLE.
 - THE FINAL PLANT GROWER SHALL BE RESPONSIBLE FOR CERTIFYING THAT THE PLANTS HAVE BEEN ROOT PRUNED AT EACH STEP IN THE PLANT PRODUCTION PROCESS TO REMOVE STEM-GIRDLING ROOTS AND KINKED ROOTS, OR SHALL ENSURE THAT THE PREVIOUS LINER PRODUCTION SYSTEM USED OTHER PRACTICES THAT PRODUCE A ROOT SYSTEM THROUGHOUT THE ROOT BALL THAT MEETS THESE SPECIFICATIONS. REGARDLESS OF THE WORK OF PREVIOUS GROWERS, THE PLANT'S ROOT SYSTEM SHALL BE MODIFIED AT THE FINAL PRODUCTIONS STAGE TO PRODUCE THE REQUIRED PLANT ROOT QUALITY. THE FINAL GROWER SHALL CERTIFY IN WRITING THAT ALL PLANTS ARE REASONABLY FREE OF ROOT DEFECTS AS DEFINED IN THIS SPECIFICATION AND THAT THE TREE HAS BEEN GROWN AND HARVESTED TO PRODUCE A PLANT THAT MEETS THESE SPECIFICATIONS.
- ALL PLANTS MAY BE INSPECTED AT THE SUPPLIER'S NURSERY. THE LANDSCAPE ARCHITECT MAY MAKE INVASIVE INSPECTION OF THE ROOT BALL AS NEEDED TO VERIFY THAT PLANTS MEET THE REQUIREMENTS. INSPECTIONS OF CONTAINER TREES MAY REQUIRE RANDOM CUTTING INTO THE INTERIOR ROOT BALL OF UP TO 2 PERCENT BUT NOT FEWER THAN TWO TREES OF EACH TYPE OF TREE IN A CONTAINER AT EACH OF TWO SOURCE NURSERY. SUCH CUTTING AND INSPECTION MAY RENDER THE CONTAINER TREE UNSUITABLE FOR PLANTING. FINDINGS OF THE ROOT INSPECTIONS SHALL BE CONSIDERED AS REPRESENTATIVE OF ALL TREES OF THAT TYPE FROM THAT SOURCE.
- CONTAINER-GROWN PLANTS, IN ADDITION TO THE ABOVE REQUIREMENTS, SHOULD COMPLY WITH THE FOLLOWING:
 - CONTAINER-GROWN PLANTS MAY BE PERMITTED ONLY WHEN INDICATED ON THE DRAWING OR THIS SPECIFICATION.
 - CONTAINER-GROWN STOCK SHALL HAVE BEEN GROWN IN A CONTAINER LONG ENOUGH FOR THE ROOT SYSTEM TO HAVE DEVELOPED.
 - SUFFICIENTLY TO HOLD ITS POTTING MEDIUM TOGETHER BUT NOT SO LONG AS TO HAVE DEVELOPED ROOTS THAT ARE MATTED OR CIRCLING AROUND THE EDGE OR INTERIOR OF THE ROOT MASS. PLANTS SHALL HAVE BEEN ROOT PRUNED AT EACH CHANGE IN CONTAINER SIZE.
 - PLANTS THAT FAIL TO MEET ANY OF THE ABOVE REQUIREMENTS SHALL BE MODIFIED TO CORRECT DEFICIENCIES IF APPROVED BY THE LANDSCAPE ARCHITECT. MODIFICATION SHALL INCLUDE THE FOLLOWING:
 - SHAVING ALL CIRCLING ROOTS ON THE EXTERIOR OF THE ROOT MASS DEEP ENOUGH SO THAT ALL CUT ROOTS ENDS ARE ROUGHLY RADIAL TO THE TRUNK.
 - REMOVAL OF ALL ROOTS ABOVE THE TOP OF THE MAIN STRUCTURAL ROOTS AND TRUNK FLARE INCLUDE ANY ROOTS THAT ARE IMPRINTS FROM PREVIOUS SMALLER CONTAINERS. (THE ABOVE MODIFICATIONS SHALL NOT BE CAUSE TO ALTER THE WARRANTY PROVISIONS OF THIS SPECIFICATION.)
- BEFORE LAYING SOD APPLY A SLOW RELEASE, STARTER FERTILIZER AT A RATE OF 1 LB OF NITROGEN PER 1,000 SQ FEET OF SOD. SOD MUST BE FROM A LOCAL SOURCE. SOD MUST BE CERTIFIED TO BE FREE FROM WEEDS, DISEASE, AND INSECTS BEFORE INSTALLATION.
- LAY THE SOD DIRECTLY ON THE FERTILIZED SOIL. INSTALLATION MUST BE DONE IN A BRICK SET PATTERN TO KEEP SEAMS FROM LINING UP. ALL EDGES MUST FIT TIGHTLY TOGETHER WITH NO GAPS. NO PIECES NARROWER THAN 8" SHOULD BE USED NEXT TO HARD SURFACES (AS THEY WILL DRY OUT AND BURN). AFTER INSTALLATION APPLY 1/4" OF WATER AND THEN ROLL NEWLY INSTALLED SOD IN TWO DIRECTIONS. IF LAYING SOD ON A STEEP SLOPE, USE SOD STAPLES TO TEMPORARILY KEEP SOD IN PLACE.
- SOD MUST BE CUT AND INSTALLED ON THE SAME DAY. SOD THAT WILL NOT BE IMMEDIATELY INSTALLED SHOULD BE WATERED FREQUENTLY TO PREVENT EXPOSED ROOTS FROM DRYING OUT. STAKE THE NEW INSTALLED TURF AREAS WITH CAUTION TAPE TO KEEP FOOT TRAFFIC OFF FOR 4 WEEKS. SOD THAT HAS NOT SIGNIFICANTLY ROOTED AFTER 4 WEEKS SHOULD BE REPLACED FROM THE SAME SOURCE.
- ALL PLANT MATERIAL TO BE INSTALLED PER DETAIL DRAWINGS INCLUDING THE APPLICATION OF AGRIFORM PLANTING TABLETS PER MANUFACTURER RECOMMENDED APPLICATION RATES.
- CONTRACTOR TO APPLY MILLERS A TO Z PLANT FERTILIZER OR APPROVED EQUAL ON PERENNIALS, SHRUBS, AND TREES PER MANUFACTURER'S RECOMMENDATIONS.
- CONTRACTOR TO WARRANTY ALL PLANT MATERIAL FOR 1 YEAR FROM THE DATE OF PROJECT COMPLETION (DEEMED COMPLETE BY OWNER).
- BEFORE PLACING TOPSOIL OWNER'S REP TO VERIFY PROPER BACK FILLING OF TRENCHES AND PROPER SUBSTRATE GRADING AND CONTOURING. CONTRACTOR TO PROTECT EXISTING STRUCTURES, FENCES, SIDEWALKS, UTILITIES, PAVING, AND CURBS DURING GRADING. BEFORE FINAL GRADING CONTRACTOR SHALL ELIMINATE UNEVEN AREAS AND LOW SPOTS AND REMOVE DEBRIS, ROOTS, BRANCHES, STONES IN EXCESS OF 1 INCH IN SIZE. ALSO TO REMOVE CONTAMINATED SUBSOIL. CONTRACTOR SHALL FINAL GRADE DURING DRY WEATHER AND SOIL CONDITIONS. CONTRACTOR TO REMOVE ROOTS, WEEDS, ROCKS, AND FOREIGN MATERIAL WHILE SPREADING SOIL. CONTRACTOR SHALL MANUALLY SPREAD TOPSOIL CLOSE TO PLANT MATERIAL, BUILDINGS, AND PAVEMENT TO PREVENT DAMAGE. CONTRACTOR SHALL REMOVE SURPLUS SUBSOIL AND TOPSOIL FROM SITE. CONTRACTOR SHALL LEAVE STOCKPILE AREA AND SITE CLEANED AND RAKED, READY TO RECEIVE LANDSCAPING.

MULCH & EDGING:

- ALL BERM AREAS AND TREE RINGS TO RECEIVE 3" DEPTH OF DARK BROWN SHREDDED BARK MULCH
- CONTRACTOR TO INSTALL DEWITT PRO 5 BELOW PAVER AREAS.
- TURF AREAS THAT BORDER GRAVEL TRAIL SHALL RECEIVE 6" DURA-EDGE BLACK METAL EDGING. SEE DETAIL.

| MARK: | DATE: | DESCRIPTION: |
|--------------|-----------|--------------|
| PROJECT #: | 17089 | |
| REVIEWER: | KALTHOUSE | |
| DESIGNED BY: | M.POWELL | |
| ISSUED: | 12.6.2017 | |

