

TREE INSTALLATION STANDARDS FOR CLARK COUNTY RIGHTS-OF-WAY

TREE PLANTING:

DECIDUOUS TREES PLANTED ALONG STREET FRONTAGES SHALL BE 1 1/2" MINIMUM CALIPER.

ALL PLANTING TO BE OF NURSERY STOCK GRADE NO. 1 OR BETTER AND MUST BE APPROVED PRIOR TO PLANTING.

ALL PLANTING HOLES SHALL BE EXCAVATED TWICE THE DIAMETER OF THE TREE ROOT BALL OR ROOT SYSTEM.

PLANT UPRIGHT AND FACE TO GIVE BEST APPEARANCE OR RELATIONSHIP TO OTHER PLANTS AND STRUCTURES. LOOSEN AND REMOVE TWINE BINDING AND BURLAP FROM AROUND TOP OF EACH BALL. SET TREE ONE INCH ABOVE FINISH GRADE.

1. STAKE OR GUY TREES, IF REQUIRED, IMMEDIATELY AFTER PLANTING (REFER TO PLANTING DETAIL).
2. REMOVE STAKES OR GUY WIRES ONE YEAR AFTER INSTALLATION.

PLACE AND COMPACT BACKFILL SOIL MIXTURE CAREFULLY TO AVOID INJURY TO ROOTS, AND TO FILL ALL VOIDS.

1. BACKFILL MIX SHALL CONSIST OF THE FOLLOWING:

0.75 PART TOPSOIL

0.25 PART APPROVED HUMUS MATERIAL (SUCH AS COMPOST)

SOIL AMENDMENTS/FERTILIZERS AS PER SOIL ANALYSIS (TO BE PERFORMED BEFORE PLANTING TREES)

WHEN HOLE IS NEARLY FILLED, COMPLETELY SOAK AND ALLOW WATER TO DRAIN AWAY.

1. FILL HOLES TO FINISH GRADE.
2. PROVIDE 2" WATER RING AT BASE OF EACH TREE. REMOVE AT END OF CONTRACT MAINTENANCE PERIOD.

TREE MAINTENANCE:


IN ORDER TO INSURE ESTABLISHMENT, SURVIVAL AND GROWTH, TREES SHALL BE MULCHED WITH 3" DEEP BARK MULCH AND WATERED AS NECESSARY DURING THE FIRST TWO GROWING SEASONS.

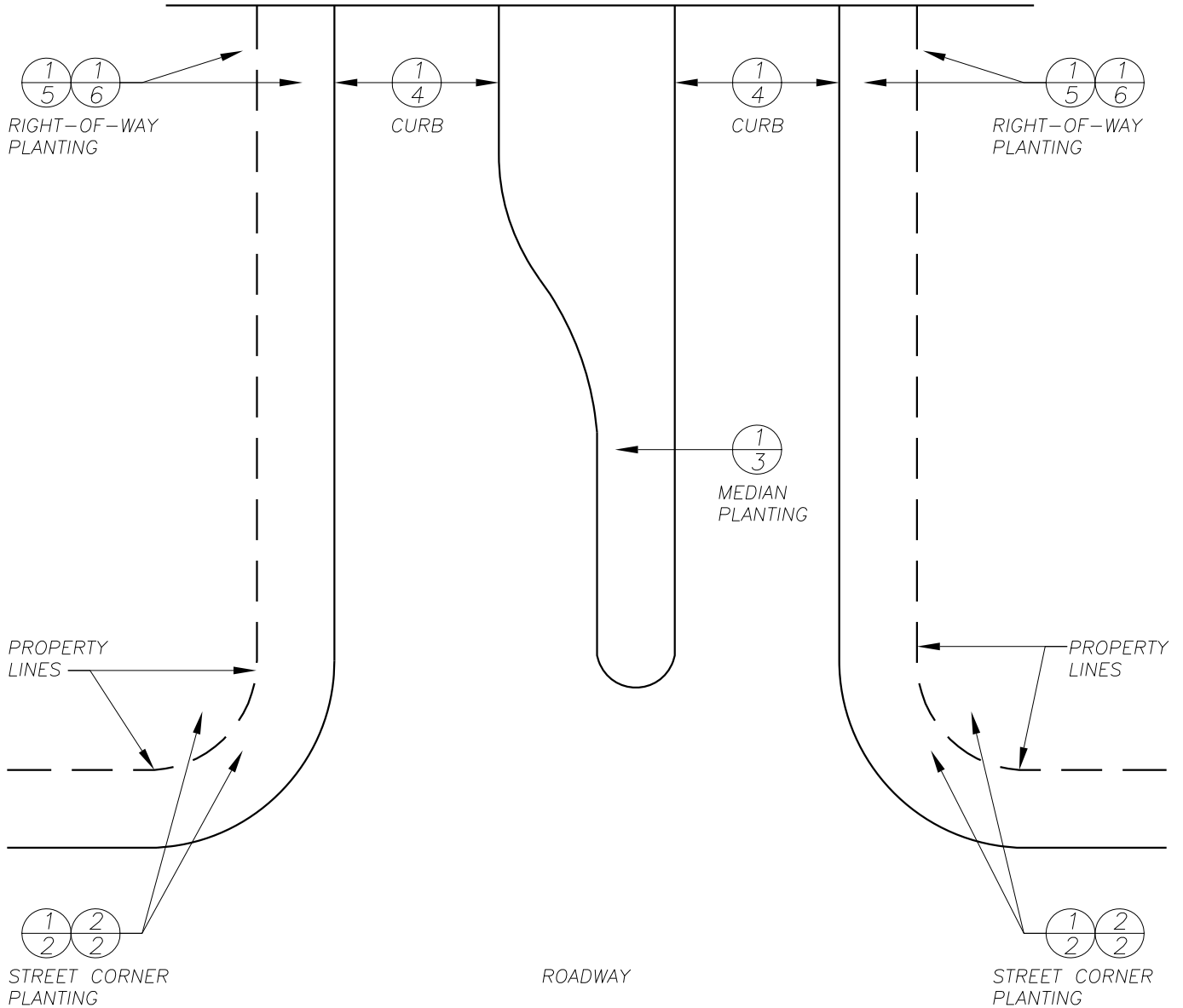
PRUNING TO BE AS FOLLOWS:

1. YEAR 1 – ONLY DEAD, BROKEN OR CROSSING BRANCHES SHALL BE PRUNED.
2. YEAR 2 – A CLASS 1 PRUNE, PURSUANT TO NATIONAL ARBORIST ASSOCIATION STANDARDS, SHALL BE PERFORMED DURING YEAR 2. THE PURPOSE OF THE PRUNING IS TO ESTABLISH PROPER SCAFFOLD BRANCHING, RAISE THE CROWN FOR ROAD/SIDEWALK CLEARANCE AND REMOVE ANY DEAD, DYING OR CROSSING BRANCHES.
3. YEAR 3 – A CLASS 1 PRUNE, PURSUANT TO NATIONAL ARBORIST ASSOCIATION STANDARDS, SHALL BE PERFORMED DURING YEAR 3. THE PURPOSE OF THE PRUNING IS TO ESTABLISH PROPER SCAFFOLD BRANCHING, CONTINUE TO RAISE THE CROWN FOR ROAD/SIDEWALK CLEARANCE AND REMOVE ANY DEAD, DYING OR CROSSING BRANCHES.

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 <p>Department of Public Works CLARK COUNTY WASHINGTON proud past, promising future</p>	<p><i>TREE INSTALLATION STANDARDS FOR CLARK COUNTY RIGHTS-OF-WAY</i></p> <p><i>Peter Capen</i> APPROVED COUNTY ENGINEER</p> <p style="text-align: right;"><u>5/23/08</u> DATE</p>	<p>STANDARD G DETAIL DESIGNED DRAWN DATE 05/23/08</p>
	<p style="text-align: center;">COUNTY ENGINEER</p>	



1 / 1 ROADWAY REFERENCE PLAN
 NOT TO SCALE

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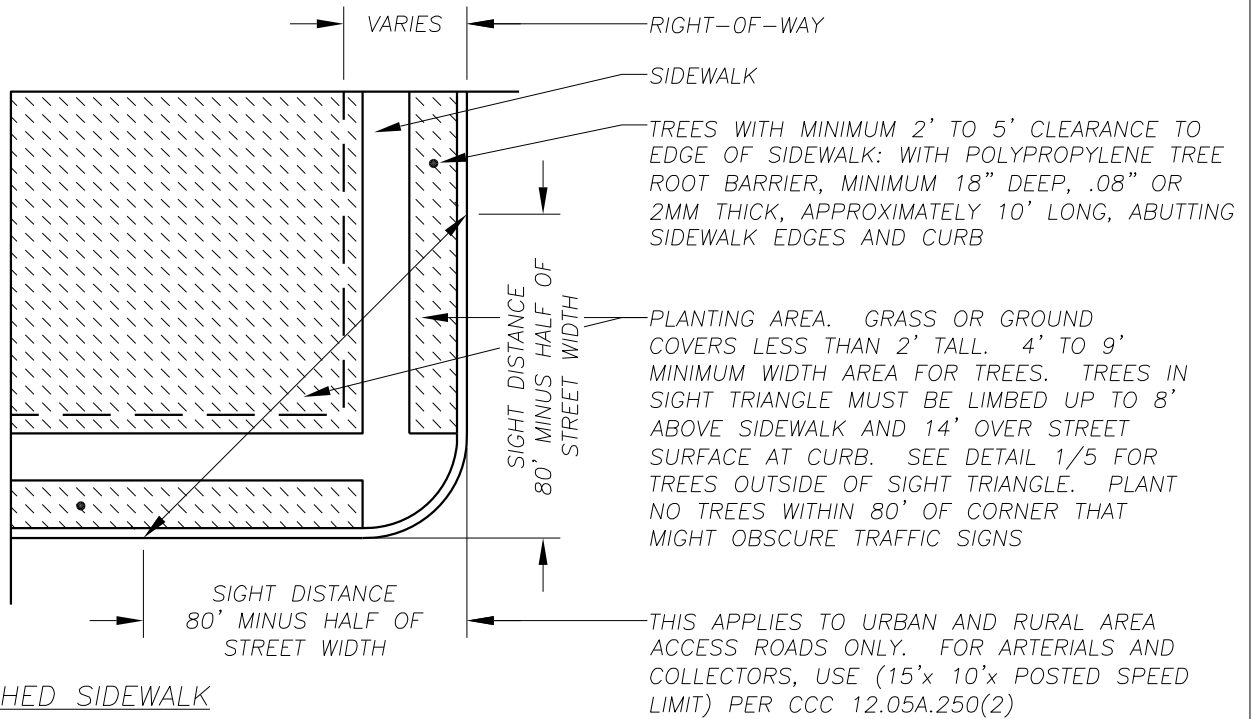
ROADWAY REFERENCE PLAN

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 COUNTY ENGINEER

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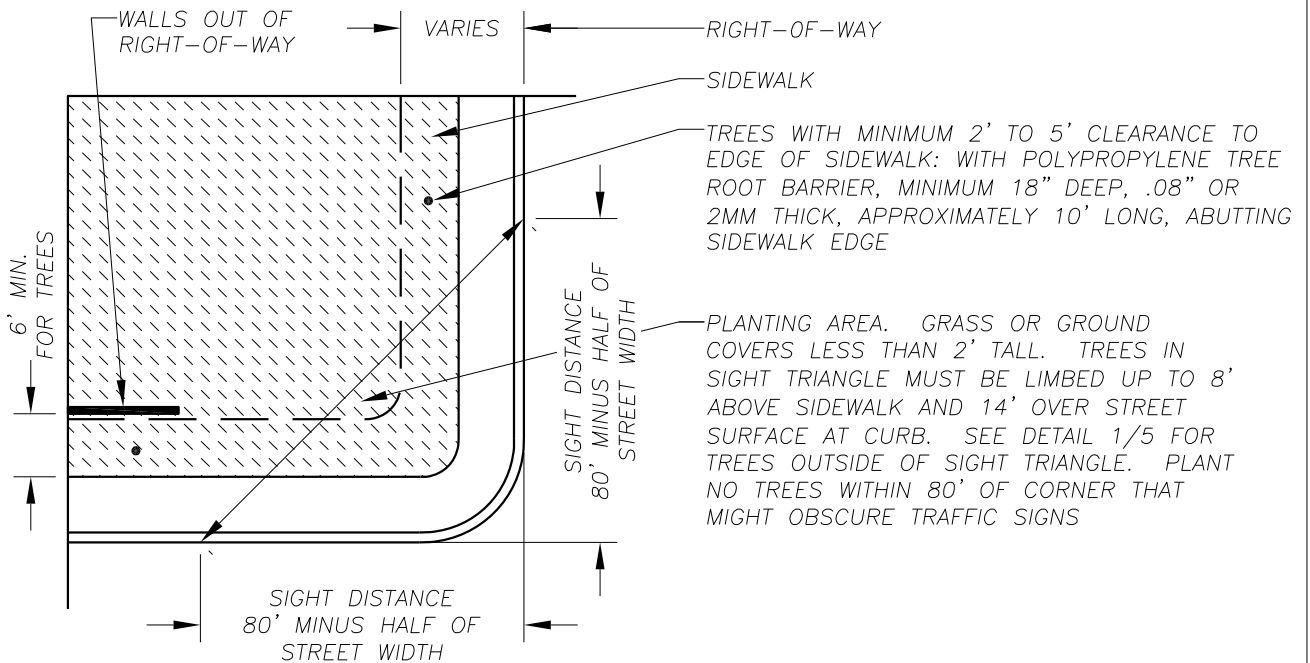
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DETACHED SIDEWALK

① PLANTING AT STREET CORNERS—WITH PLANTING STRIP
 ② NOT TO SCALE



ATTACHED SIDEWALK

② PLANTING AT STREET CORNERS—WITHOUT PLANTING STRIP
 ② NOT TO SCALE (ONLY FOR ACCESS ROADS PER CCC 12.05A.250(2))

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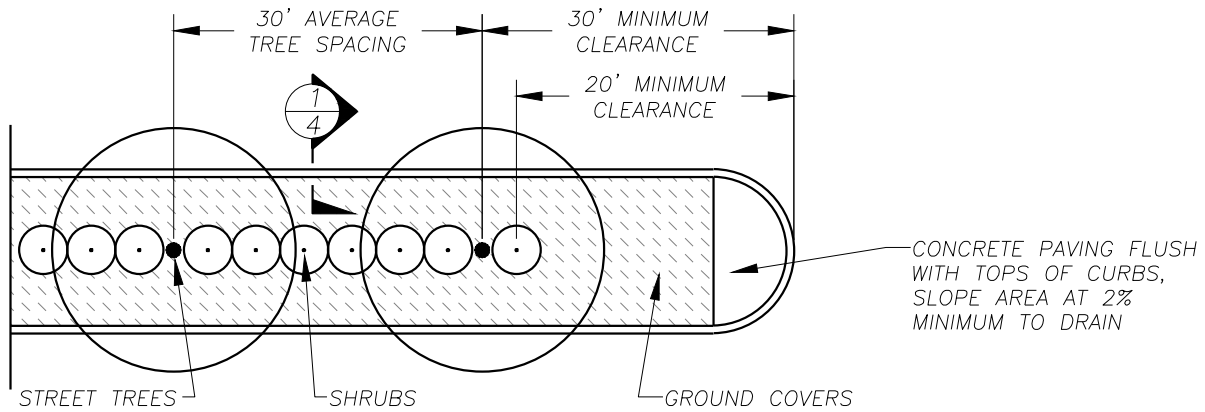
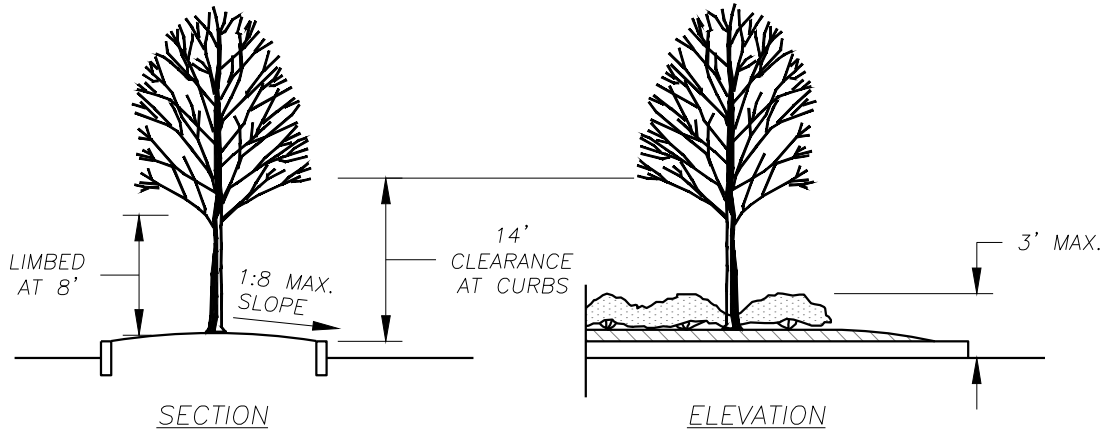
PLANTING AT STREET CORNERS

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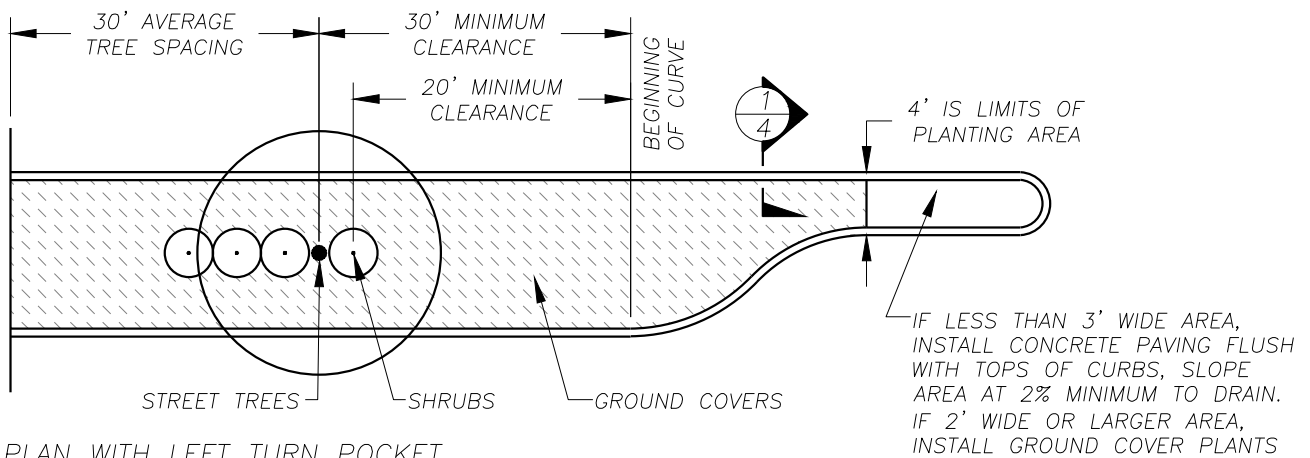
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PLAN WITHOUT LEFT TURN POCKET



PLAN WITH LEFT TURN POCKET

① PLANTING AT MEDIANS
③ NOT TO SCALE

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PLANTING AT MEDIANS

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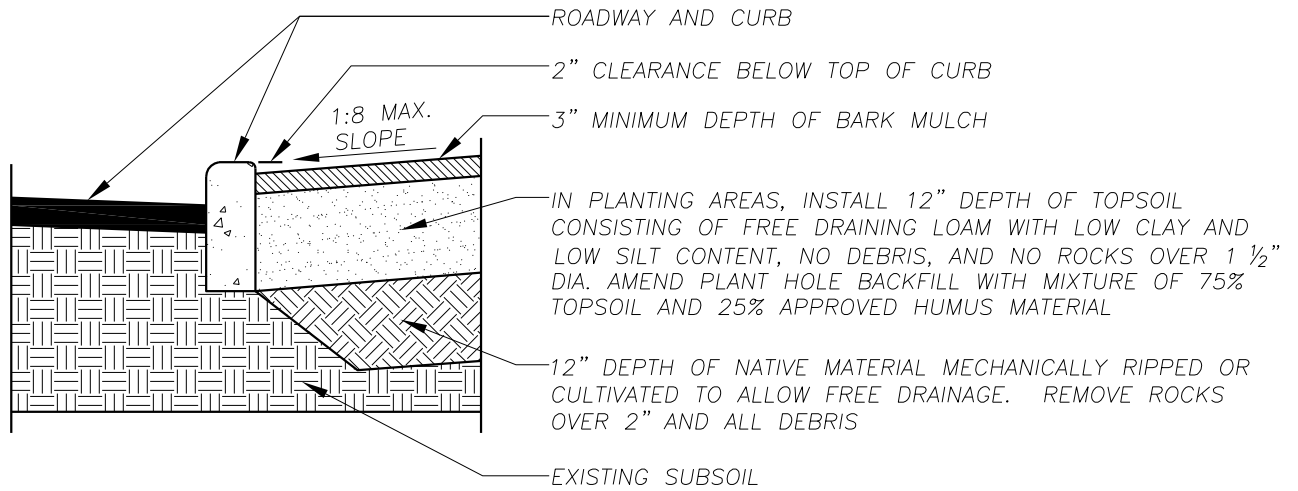
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① PLANTING AREA SOIL SECTION AT CURBS
4 NOT TO SCALE

PLANTING STANDARDS

1. ALSO REFER TO CLARK COUNTY ROAD STANDARDS SECTION 12.05.040.
2. MINIMUM PLANTING ISLAND WIDTH: 4' FOR TREES.
3. IN 3' TO 4' WIDE MEDIANS, INSTALL SHRUBS AND GROUND COVERS ONLY, NOT TREES. UNDER 3' NO PLANTING.
4. SELECT PLANT VARIETIES FROM PREFERRED COUNTY LIST OR AS APPROVED BY CLARK COUNTY DEPARTMENT OF PUBLIC WORKS, TRANSPORTATION DIVISION.
5. INSTALL MINIMUM 1 1/2" CALIPER DECIDUOUS TREE.
6. INSTALL MINIMUM SIZE OF SHRUBS AND GROUND COVERS AS INDICATED ON PREFERRED COUNTY LIST.
7. INSTALL B&B PLANTS OR CONTAINER PLANTS. BARE ROOT PLANTS ONLY WHEN PLANTED IN LATE FALL OR WINTER.
8. INSTALL PLANTS AS INDICATED ON PREFERRED COUNTY LIST, USING MATURE SPREAD AS A GUIDELINE FOR SPACING.
9. SEE ATTACHED DRAWINGS FOR ADDITIONAL STANDARD DIMENSION.

SUMMARY OF IRRIGATION REQUIREMENTS

1. ALSO REFER TO CLARK COUNTY ROAD STANDARDS SECTION 12.05.040.
2. COUNTY OR CITY PLUMBING PERMIT.
3. DOUBLE CHECK VALVE BACKFLOW DEVICE AND CERTIFIED TEST.
4. IRRIGATION INSPECTIONS AND APPROVAL BY COUNTY.
5. RAINBIRD MAXICOM COMPATIBLE AUTOMATIC CONTROLLER.
6. ELECTRIC CONTROL VALVES WITH TWO UNIONS AND WITH GATE VALVE UPSTREAM.
7. 120V AC POWER TO CONTROLLER.
8. CONDUIT FOR PHONE LINE FOR FUTURE CONTROL CLUSTER UNIT (CCU).
9. SCHEDULE 40 PVC FITTINGS, SLEEVES, AND MAINLINE FROM METER TO DOUBLE CHECK VALVE.
10. CLASS 200 FOR MAINLINE AND LATERAL PIPES.
11. SAND BED ALL PIPES 2" BELOW PIPE, 4" ABOVE, AND DETECTOR TAPE 6" ABOVE MAINLINES.
12. LATERAL PIPE 12" DEEP, MAINLINES 18" DEEP, SLEEVES 24" DEEP.
13. PVC PRIMER/CLEANER ON PIPE BEFORE PVC SOLVENT CEMENT. SEPARATE APPLICATIONS.
14. 12" DEEP RECTANGULAR VALVE BOXES FOR CONTROL VALVES.
15. PRESSURE REGULATING VALVE TO PROVIDE 30 PSI OUTPUT TO FARTHEST SPRAY HEAD.
16. PLASTIC POP-UP TAPE HEADS WITH MARLEX AND STREET ELLS ON FLEX SWING PIPE.
17. 14 GAUGE CONTROL WIRES.
18. HEAD TO HEAD AUTOMATIC IRRIGATION COVERAGE.
19. DRAIN VALVES: BALL VALVE WITH ELL, ROCK SUMP, 12" VALVE BOX AT ALL MAINLINE LOW POINTS.
20. PRESSURE TEST ON MAINLINE.
21. AS-BUILT RECORD DRAWINGS ON MYLAR.
22. IRRIGATION MAY BE REQUIRED FOR A MINIMUM OF TWO YEARS TO ESTABLISH PLANTS AND FOR WATERING DURING EXTREME DROUGHT CONDITIONS.

② PLANTING AND IRRIGATION STANDARDS
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PLANTING AND IRRIGATION STANDARDS

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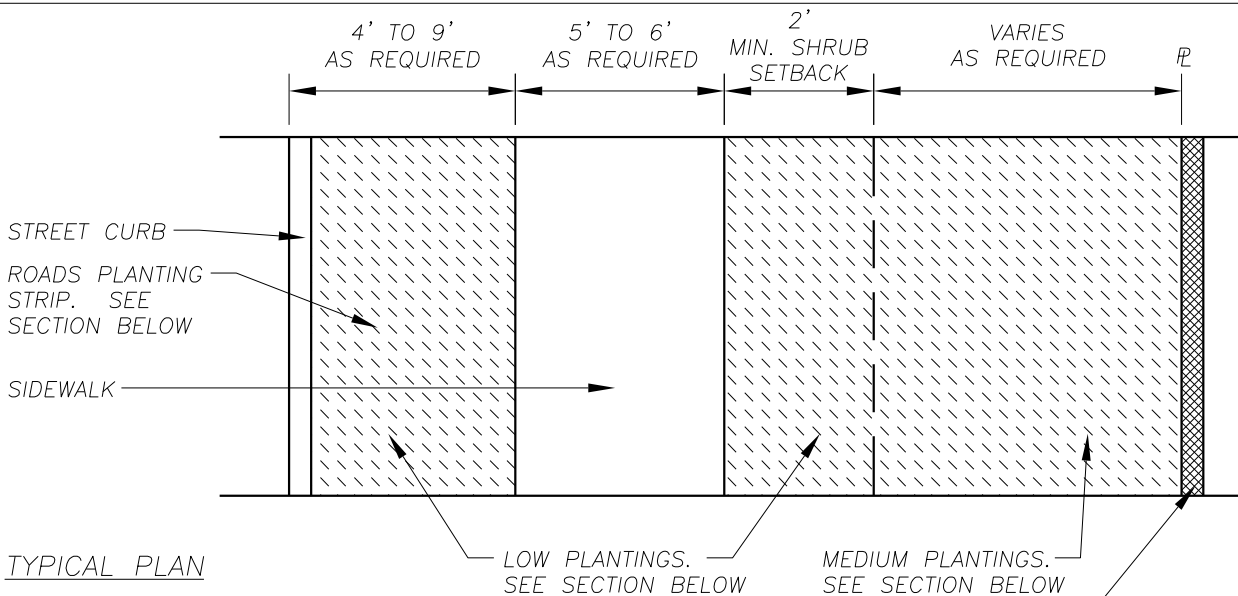
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TYPICAL PLAN

LOW PLANTINGS. SEE SECTION BELOW

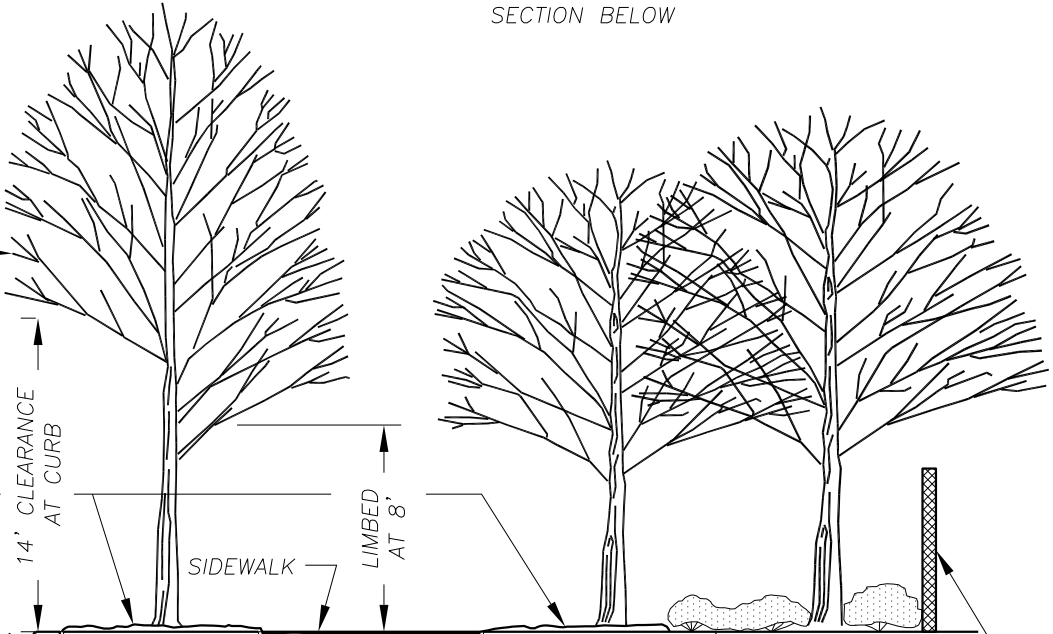
MEDIUM PLANTINGS. SEE SECTION BELOW

WALL OR FENCE AS REQUIRED. SEE SECTION BELOW

STREET TREES FROM STREET TREE LIST OR AS APPROVED BY CLARK COUNTY TRANSPORTATION DIVISION

LOW SHRUBS OR GROUND COVER PLANTS. 2' MAXIMUM MATURE HEIGHT. NO LAWN UNLESS IRRIGATED AND MAINTAINED BY ADJACENT PROPERTY OWNER

CURB
STREET



ROOT BARRIER, SEE DETAIL 1/2 AND 2/2

GRADING: SLOPE TO ALLOW POSITIVE DRAINAGE: MINIMUM 1.5% CROSS SLOPE IN PLANTING AREAS, MINIMUM 2% CROSS SLOPE ON WALKS

WALL OR FENCE AS REQUIRED (INSTALL ON PRIVATE PROPERTY)

SELECT PLANTINGS FROM RIGHT-OF-WAY PLANTING LIST OR AS APPROVED BY CLARK COUNTY DEPARTMENT OF PUBLIC WORKS, TRANSPORTATION DIVISION

SOIL PREPARATION: SEE NOTES IN 2/4

IRRIGATION: SEE 2/4

TYPICAL SECTION

1 PLANTING AT RIGHT OF WAYS
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PLANTING AT RIGHT OF WAYS

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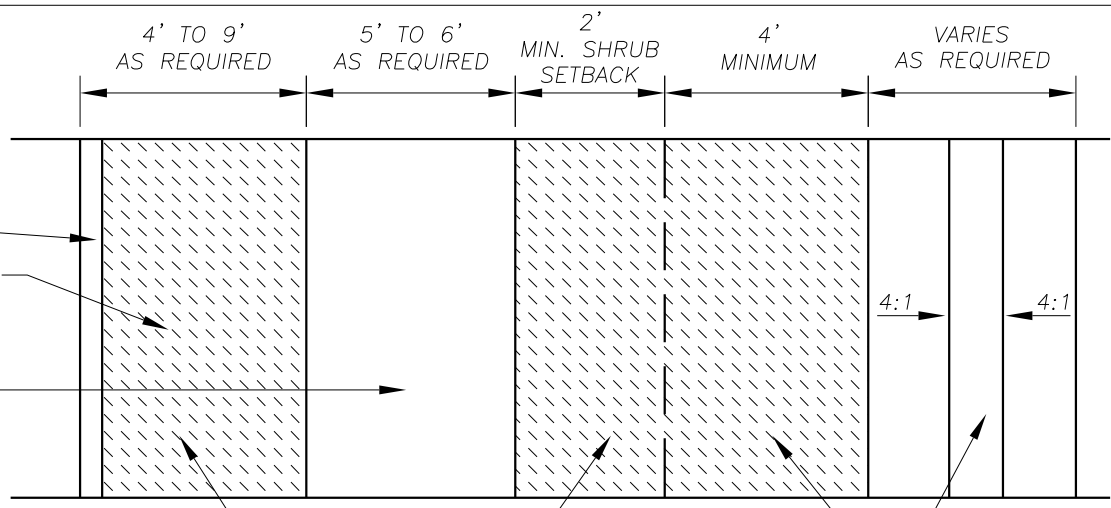
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STREET CURB
ROADS PLANTING STRIP. SEE SECTION BELOW
SIDEWALK

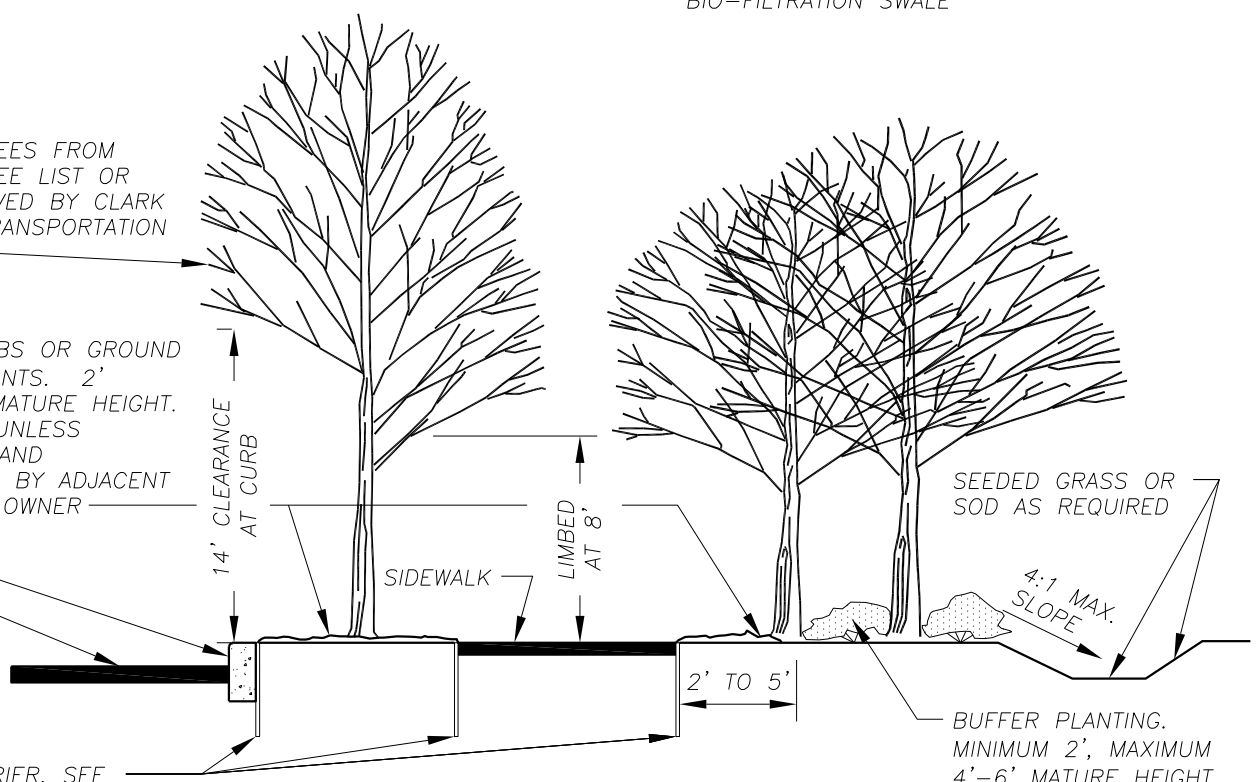
TYPICAL PLAN

LOW PLANTINGS. SEE SECTION BELOW
MEDIUM PLANTINGS. SEE SECTION BELOW
STORM DRAINAGE BIO-FILTRATION SWALE

STREET TREES FROM STREET TREE LIST OR AS APPROVED BY CLARK COUNTY TRANSPORTATION DIVISION

LOW SHRUBS OR GROUND COVER PLANTS. 2' MAXIMUM MATURE HEIGHT. NO LAWN UNLESS IRRIGATED AND MAINTAINED BY ADJACENT PROPERTY OWNER

CURB
STREET



ROOT BARRIER, SEE DETAIL 1/2 AND 2/2

GRADING: SLOPE TO ALLOW POSITIVE DRAINAGE: MINIMUM 1.5% GROSS SLOPE IN PLANTING AREAS, MINIMUM 2% CROSS SLOPE ON WALKS

SEEDED GRASS OR SOD AS REQUIRED

BUFFER PLANTING. MINIMUM 2', MAXIMUM 4'-6' MATURE HEIGHT. SELECT PLANTINGS FROM RIGHT-OF-WAY PLANTING LIST OR AS APPROVED BY CLARK COUNTY DEPARTMENT OF PUBLIC WORKS, TRANSPORTATION DIVISION

TYPICAL SECTION

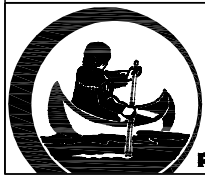
PLANTING AT RIGHT OF WAYS WITH BIO-FILTRATION SWALES
1/6 NOT TO SCALE

SOIL PREPARATION: SEE NOTES IN 2/4

IRRIGATION: SEE 2/4

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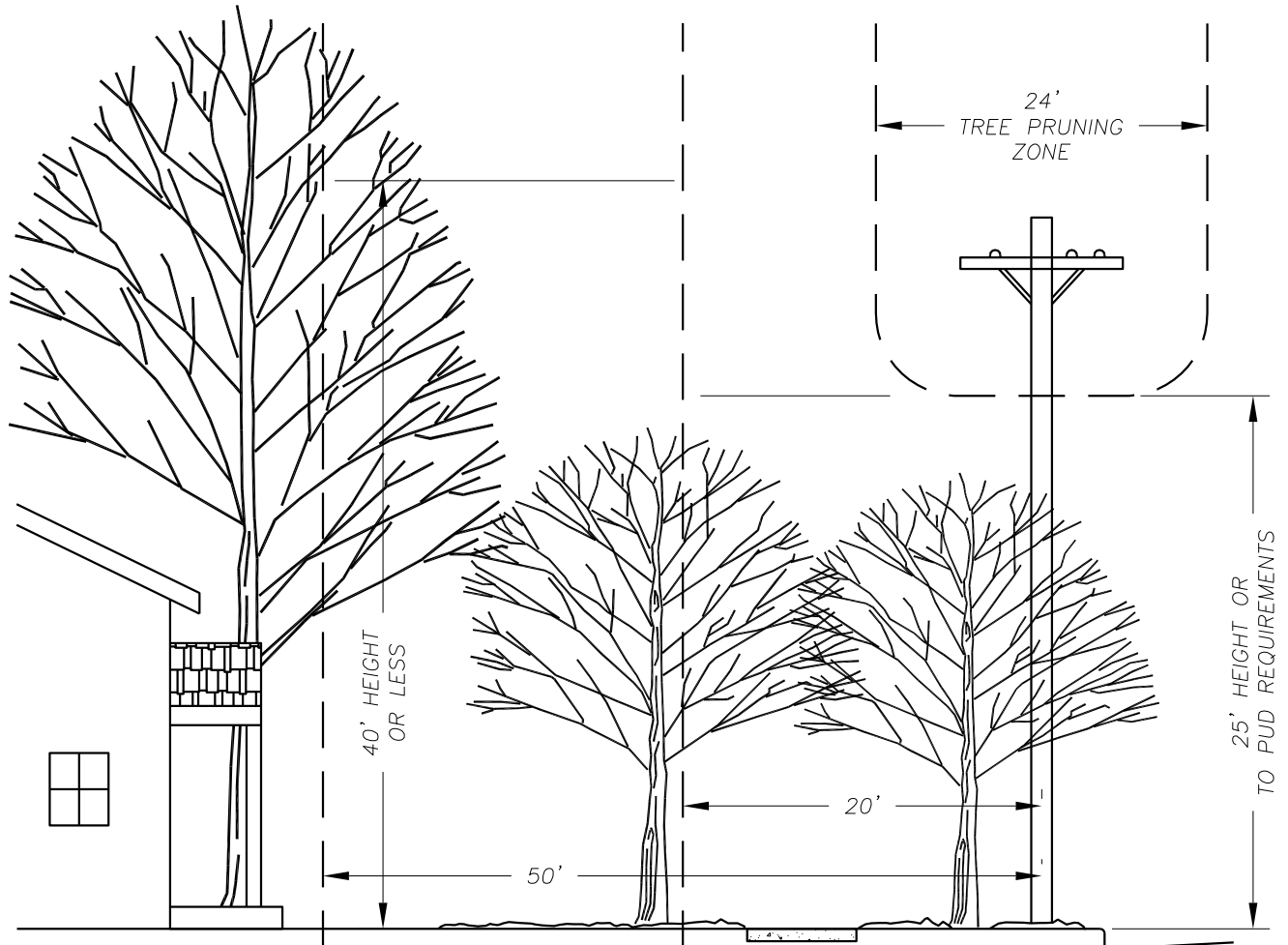


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PLANTING AT RIGHT OF WAYS WITH BIO-FILTRATION SWALES
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PLANT THE RIGHT TREE IN THE RIGHT PLACE
PLANT TALLER TREES AWAY FROM OVERHEAD UTILITY LINES



- TALL TREES, SUCH AS:
- MAPLE
 - OAK
 - SPRUCE
 - PINE

- MEDIUM TREES, SUCH AS:
- WASHINGTON HAWTHORN
 - GOLDEN RAINTREE

- SMALL TREES, SUCH AS:
- REDBUD
 - DOGWOOD
 - CRABAPPLE

① PLANTING UNDER UTILITY LINES
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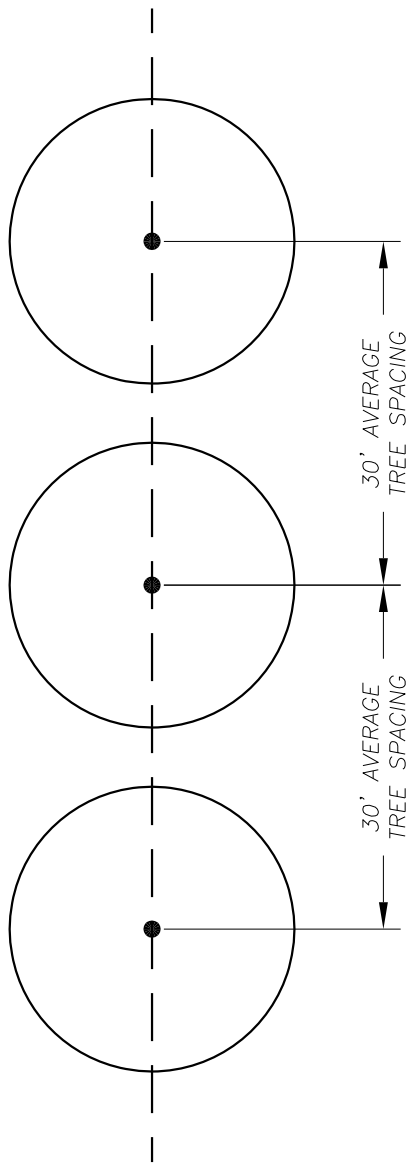
PLANTING UNDER UTILITY LINES

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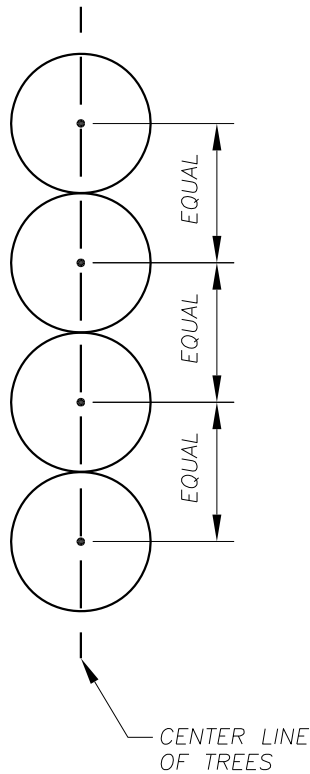
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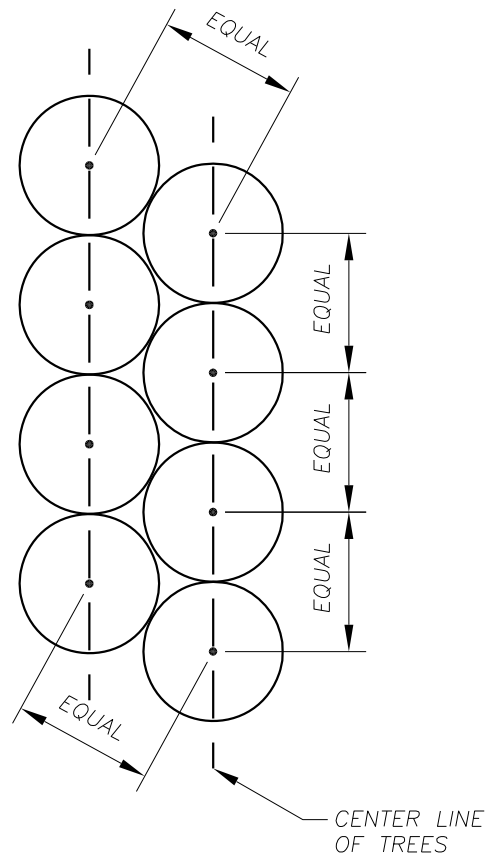
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TREES



SINGLE ROW OF
PLANTS IN
BEDS UNDER 5'



DOUBLE OR MULTIPLE
ROWS OF PLANTS IN
BEDS OVER 5'

SHRUBS AND GROUND COVERS

NOTE: SPACE ALL TREES, SHRUBS AND GROUND COVERS AS INDICATED ON PREFERRED COUNTY LISTS FOR STREET MEDIANS AND RIGHT OF WAYS, USING MATURE SPREAD AS A GUIDELINE FOR SPACING.

① TYPICAL PLANTING LAYOUT
⑧ NOT TO SCALE

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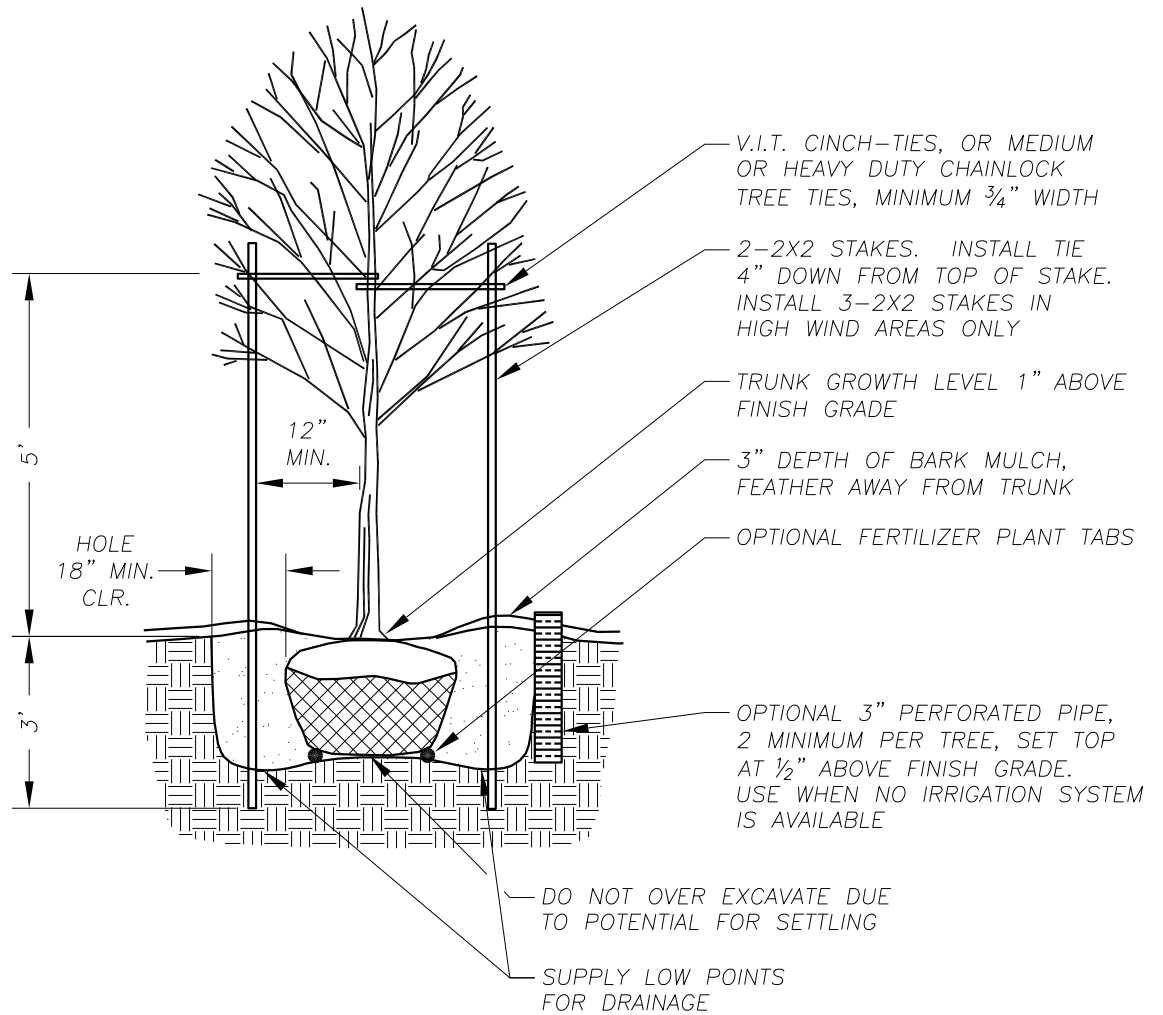
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TYPICAL PLANTING LAYOUT
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TREE STAKING DETAIL AND
PERF. PIPE DETAIL FOR MANUAL IRRIGATION
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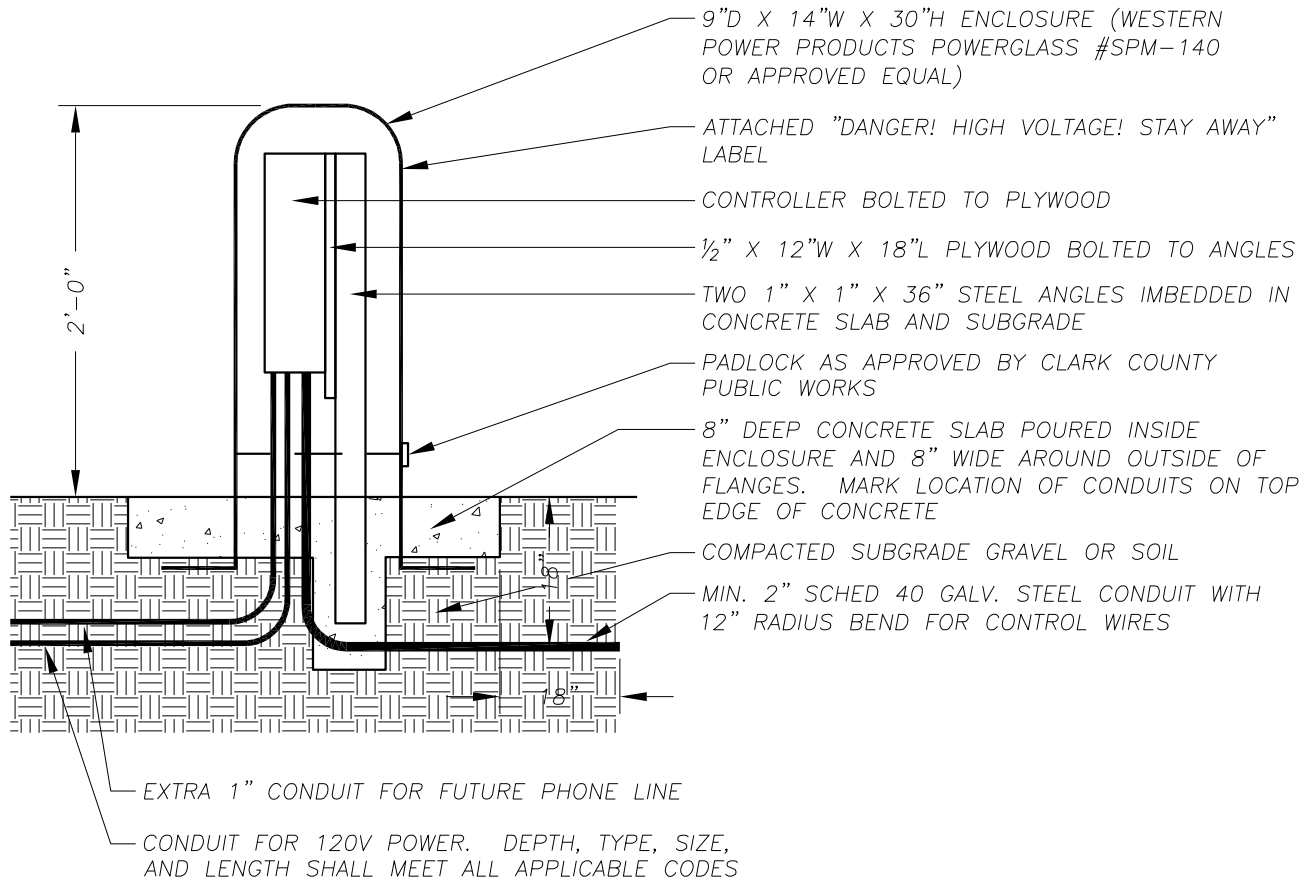
TREE STAKING DETAIL AND
PERF. PIPE DETAIL FOR MANUAL IRRIGATION

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NOTES:

1. ENCLOSURE FOR CONTROL CLUSTER UNIT SHALL BE IDENTICAL.
2. FOR USE WITH IRRIGATION SYSTEMS TO BE TURNED OVER TO THE COUNTY.

IRRIGATION CONTROLLER ENCLOSURE AND INSTALLATION

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IRRIGATION CONTROLLER
ENCLOSURE AND INSTALLATION

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**Street Tree Selection
Minimum 4' Planting Strip Width
Plant trees 25'-30' apart in areas compatible with mature tree size
For Narrow Spaces such as parking strips or exterior fencescapes**

Common Name	Scientific Name	Cultivar	Height in FT	Width in FT	Shape	Features/Considerations	Drought Tolerant	Overhead Utility Friendly
Trident Maple	Acer buergerianum		25	20	round	red in fall	✓	✓
Hedge Maple	Acer campestre	Queen Elizabeth	30	30	rounded	low maintenance; yellow in fall	✓	✓
Rocky Mountain Glow Maple	Acer grandidentatum	Schmidt	25	15	oval	orange/red in fall	✓	✓
Flame Maple	Acer ginnala	Flame	20	20	low branching	hardy/available; orange/red in fall	✓	✓
Rocky Mountain Maple	Acer glabrum		25	15	oval	deep lobed leaves; orange/red in fall; red twigs	✓	✓
Paperbark Maple	Acer griseum		25	20	upright/round	peeling brown bark; red in fall	✓	✓
Tartarian Maple	Acer tartaricum		25	20	small rounded	yellow/red in fall	✓	✓
Allegheny Serviceberry	Amelanchier laevis	Cumulus	25	15	oval/irregular	white flowers; edible fruit; orange fall color	✓	✓
Autumn Brilliance Serviceberry	Amelanchier x grandiflora	Autumn Brilliance	20	15	upright, spreading	white flowers; edible fruit; red in fall	✓	✓
Cole's Select Serviceberry	Amelanchier x grandiflora	Cole	20	15	rounded	red in fall	✓	✓
Princess Diana Serviceberry	Amelanchier x grandiflora	Princess Diana	25	15	gracefully spreading	white flowers; edible fruit	✓	✓
Glorybower	Clerodendrum trichotomum		20	20	rounded	Fragrant flowers in summer; blue berries in fall	✓	✓
Japanese Dogwood	Cornus kousa		20	20	horizontal	large white flowers; red in fall	✓	✓
Cornelian Cherry Dogwood	Cornus mas		25	20	oval-rounded	yellow flowers; red in fall	✓	✓
Smoke Tree	Cotinus coggygria		10	15	upright/rounded	tree form; difficult to transplant;	✓	✓
Thornless Cockspur Hawthorn	Crataegus crus-galli	Inermis	25	25	rounded	no thorns; orange fall color	✓	✓
Crimson Cloud Hawthorn	Crataegus laevigata	Crimson Cloud	25	18	shrubby/round	red flowers; fruit with star-shaped area in center	✓	✓
Snowbird Hawthorn	Crataegus mordanensis	Snowbird	22	20	upright oval	double white flowers	✓	✓
Washington Hawthorn	Crataegus phaenopyrum		25	20	oval/rounded	white flowers; red fruit; orange/red in fall	✓	✓
Lavalle Hawthorn	Crataegus x lavallei		28	20	irregular/vase	white flowers; orange fruit	✓	✓
Golden Desert Ash	Fraxinus excelsior	Aureafolia	20	20	rounded	golden twigs	✓	✓
Raywood Ash	Fraxinus oxycarpa	Raywood	35	25	oval	fast grower; purple fall color	✓	✓
Carolina Silverbells	Halesia carolina		30	20	broadly/pyramidal	white/bell flowers	✓	✓
Mountain Silverbell	Halesia monticola		40	25	conical/rounded	white/bell flowers; yellow in fall	✓	✓
Goldenrain Tree	Koeleruteria paniculata		30	30	rounded	yellow clusters	✓	✓
Amur Maackia	Maackia amurensis		25	20	vase	white flower clusters	✓	✓
Victoria Magnolia	Magnolia grandiflora	Victoria	20	20	pyramidal	creamy flowers; non-windy site	✓	✓
Northern Japanese Magnolia	Magnolia kobus		35	25	rounded	red fruit	✓	✓
Merrill Magnolia	Magnolia x loebneri	Merrill	25	25	oval/rounded	white/pink flowers at early age	✓	✓
Adirondack Crabapple	Malus spp.	Adirondack	18	10	columnar	white/pink flowers; red/orange fruit	✓	✓
Red Jewel Crabapple	Malus spp.	Jewelcole	15	12	rounded	white flowers; red fruit until mid-Dec	✓	✓
Centurion Crabapple	Malus spp.	Centzam	20	15	narrow	red flower; purple bronze leaves	✓	✓
Golden Raindrops	Malus spp.	Golden Raindrops	20	15	vase	deep cut leaves; golden fruit	✓	✓
Sugar Lyme Crabapple	Malus spp.	Sutyzam	18	15	oval	pink buds; white flower	✓	✓
Sentinel Crabapple	Malus spp.	Sentinel	20	14	columnar	pale pink flowers	✓	✓
Tschoonoskii Crabapple	Malus tschoonoskii		28	14	narrowly oval	white flowers; greenish fruit	✓	✓
American Hophornbeam	Ostrya virginiana		35	25	upright oval	hop-like fruit; yellow in fall	✓	✓
Sourwood	Oxydendrum arboreum		20	15	rounded	white bell clusters; orange in fall	✓	✓
Persian Parrotia	Parrotia persica		30	20	rounded	early flowers; mix of fall color	✓	✓
Krauter Vesuvius Plum	Prunus cerasifera	Krauter Vesuvius	20	15	upright	light pink flowers; tolerates heat; purple leaves	✓	✓
Thundercloud Plum	Prunus cerasifera	Thundercloud	20	20	upright/rounded	light pink flowers; purple leaves	✓	✓
Mt. St. Helens Plum	Prunus spp.	Frankthress	20	20	rounded	light pink flowers; fast growing; purple leaves	✓	✓
Newport Plum	Prunus cerasifera	Newport	20	20	rounded	pale pink flowers; purple leaves	✓	✓
Summer Glow Bird Cherry	Prunus padus	Summer Glow	25	20	oval/round	white flowers; purple leaves	✓	✓
European Bird Cherry	Prunus padus		30	25	round	white flowers in long clusters	✓	✓
Capital Pear	Pyrus calleryana	Capital	35	12	columnar	white flowers; red in fall	✓	✓
Chanticleer Pear	Pyrus calleryana	Chanticleer	40	15	pyramidal	white flowers; red in fall	✓	✓
Japanese Snowbell	Styrax japonicus		25	25	rounded	bell shaped flowers; yellow in fall	✓	✓
Fragrant Snowbell	Styrax obassia		25	15	oval	fragrant flowers in summer	✓	✓
Ivory Silk Japanese Tree Lilac	Syringa reticulata	Ivory Silk	20	15	upright/rounded	creamy panicles; heavy flowering	✓	✓

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PLANT MATERIALS FOR CLARK COUNTY R.O.W.
TREES 4' MINIMUM WIDTH BEDS

Peter Capen
COUNTY ENGINEER

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5/23/08
DATE

TABLE G1

DESIGNED
DRAWN
DATE 05/23/08

Street Tree Selection
Minimum 6' Planting Strip Width
Plant trees 25'-30' apart in areas compatible with mature tree size

Common Name	Scientific Name	Cultivar	Height in FT	Width in FT	Shape	Features/Considerations	Drought Tolerant	Overhead Utility Friendly
Japanese Maple	Acer palmatum		25	25	horizontal	fine-textured leaves; orange/red in fall		✓
Columnar Norway Maple	Acer platanoides	Columnar	35	15	narrow	column of green foliage; yellow in fall	✓	
Crimson Sentry Maple	Acer platanoides	Crimson Sentry	25	15	oval	purple leaves maroon in fall	✓	✓
Globe Norway Maple	Acer platanoides	Globosum	15	18	dense/globe	yellow in fall		✓
Armstrong Maple	Acer rubrum	Armstrong	45	15	narrow	fast growing; yellow orange in fall		
Bowhall Maple	Acer rubrum	Bowhall	40	15	narrow	great fall color		
Goldspire Sugar Maple	Acer saccharum	Goldspire	45	15	columnar	yellow in fall		
Pacific Sunset Maple	Acer truncatum x A.	Warrenred	30	25	oval	orange/red in fall	✓	
California Buckeye	Aesculus californica		20	30	rounded	fragrant flowers		✓
Red Horse Chestnut	Aesculus x carnea	Biotti	30	35	rounded	long rosy cluster; small variety; spiky nuts	✓	
American Hornbeam	Carpinus caroliniana		25	20	oval	smooth gray trunk; yellow to orange in fall		✓
European Hornbeam	Carpinus betulus	Fastigiata	35	25	upright/oval	catkins turn brown in November; yellow in fall	✓	
Japanese Hornbeam	Carpinus japonicus		30	25	rounded vase	white/yellow flowers; red in fall	✓	
Katsura Tree	Cercidiphyllum japonicum		40	40	pyramidal/rounded	heart shaped leaves; red orange in fall		
Eastern Redbud	Cercis canadensis		35	25	horizontal	purple-pink flowers; yellow in fall		
Dove Tree	Davidia involucreta		35	28	broad pyramidal	white bracts	✓	
Dawycck Purple Beech	Fagus sylvatica	Dawycck Purple	40	12	columnar	purple leaves		
Dawycck Pyramidal Beech	Fagus sylvatica	Beech	45	20	columnar	purple leaves		
Rosehill Ash	Fraxinus americana	Rosehill	50	35	upright/oval	strong leader; red/purple in fall	✓	
Flowering Ash	Fraxinus ornus		30	15	pyramidal/round	yellow in fall	✓	
Marshall Ash	Fraxinus pennsylvanica	Marshall	50	40	broadly oval	tough/adaptable; yellow in fall	✓	
Summit Ash	Fraxinus pennsylvanica	Summit	45	25	narrowly oval	yellow in fall	✓	
Princeton Sentry Ginkgo	Ginkgo biloba	Princeton Sentry	40	15	columnar	seedless male; yellow in fall	✓	
Skyline Honeylocust	Gleditsia triacanthos	Skycole	45	35	broadly pyramidal	tolerant of pollution; golden in fall	✓	
Shademaster Honeylocust	Gleditsia triacanthos	Shademaster	45	35	vase	upright branching; yellow in fall	✓	
Golden Chain Tree	Laburnum x watereri	Vossii	30	20	upright	yellow flowers; poisonous	✓	
Crabapple	Malus floribunda		18	25	irregular	pink flowers; yellow/red fruit	✓	✓
Indian Summer Crabapple	Malus spp.	Indian Summer	18	20	rounded	red flower; wide	✓	✓
Prairifire Crabapple	Malus spp.	Prairifire	20	20	upright/rounded	wide	✓	✓
Robinson Crabapple	Malus spp.	Robinson	25	25	rounded	deep pink flower; fast growing	✓	✓
Snowdrift Crabapple	Malus spp.	Snowdrift	20	20	spreading/round	white flowers; orange fruit	✓	✓
Fruitless Mulberry	Morus alba	Kingens	35	40	rounded	fruitless	✓	✓
Sour Gum/Black Tupelo	Nyssa sylvatica		35	20	pyramidal	red yellow in fall		
European Hophornbeam	Ostrya carpinifolia		40	25	rounded	nutlets in hop-like bunches	✓	
Macho Cork Tree	Phellodendron amurense	Macho	40	30	vase shaped	seedless; yellow in fall		
Spire Cherry	Prunus x hillieri	Spire	30	10	dense	soft pink flowers; orange/red in fall		
Kwanzan Flowering Cherry	Prunus serrulata	Kwanzan	30	20	vase/rounded	in fall		
Autumn Flowering Cherry	Prunus subhirtella	Autumnalis Rosea	25	20	spreading	fall		✓
Canada Red Chokecherry	Prunus virginiana	Canada Red	25	22	rounded	unusual bark; purple leaves; red in fall		
Akebono Cherry	Prunus x yedoensis	Akebono	25	25	upright	delicate pink flowers; yellow in fall		✓
Aristocrat Pear	Pyrus calleryana	Aristocrat	40	28	pyramidal	open formal appearance; red fall		
Redspire Pear	Pyrus calleryana	Redspire	35	25	pyramidal	white flowers; red in fall	✓	
Prairie Gem	Pyrus ussuriensis	MorDak	25	25	rounded	hardest ornamental pear; yellow fall color	✓	
Sawtooth Oak	Quercus acutissima		40	40	rounded	clean foliage; yellow/brown in fall		
Skyrocket Oak	Quercus robur	Fastigiata	45	15	narrow/fastigate	yellow/brown in fall	✓	
Japanese Pagodatree	Sophora japonica	Regent	50	45	rounded/upright	Creechy white flowers in clusters	✓	
Japanese Stewartia	Stewartia pseudocamellia		30	20	pyramidal/oval	fall	✓	
Greenspire Linden	Tilia cordata	Greenspire	40	30	pyramidal	strong/uniform; yellow in fall	✓	✓
Village Green Zelkova	Zelkova serrata	Village Green	40	38	vase shaped	clean appearance; red in fall	✓	

DWG: TABLE G2.DWG

NO.	REVISIONS	DATE	BY



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PLANT MATERIALS FOR CLARK COUNTY R.O.W.
TREES 6' MINIMUM WIDTH BEDS

Peter Capen
COUNTY ENGINEER

APPROVED

5/23/08
DATE

TABLE G2

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DATE 05/23/08

**Street Tree Selection
Minimum 8' Planting bed width**

Plant trees 25'-30' apart in areas compatible with mature tree size

Common Name	Scientific Name	Cultivar	Height in FT	Width in FT	Shape	Features/Considerations	Drought Tolerant	Overhead Utility Friendly
State Street Maple	Acer miyabei	Morton	45	30	rounded	red in fall	✓	
Cleveland Maple	Acer platanoides	Cleveland	40	30	oval/dense	yellow in fall		
Crimson King Maple	Acer platanoides	Crimson King	40	35	oval/rounded	purple leaves; reddish bronze in fall		
Deborah Maple	Acer platanoides	Deborah	45	40	oval/rounded	dark bronze green leaves; bronze in fall		
Emerald Queen Maple	Acer platanoides	Emerald Queen	50	40	oval/upright	tolerant of pollution		
Summershade Maple	Acer platanoides	Summershade	42	40	broad/rounded	fast growing; yellow in fall		
Spaethii Maple	Acer pseudoplatanus	Atropurpureum	40	30	oval/upright	salt tolerant; green/purple leaves		
Red Sunset Maple	Acer rubrum	Franksred	45	35	upright/oval	vigorous/symmetrical; orange/red in fall	✓	
October Glory Maple	Acer rubrum	October Glory	40	35	oval/round	reddish purple in fall		
Schlesinger Maple	Acer rubrum	Schlesingeri	45	35	vase shaped	orange/red in fall		
Green Mountain Sugar Maple	Acer saccharum	Green Mountain	45	35	oval	hardest Sugar Maple; orange/red fall color	✓	
Common Horsechestnut	Aesculus hippocastanum		60	45	upright oval	flowers have blotch of yellow to red color at their base.		
River Birch	Betula nigra		40	30	upright/oval	yellow in fall		
Hardy Rubber Tree	Eucommia ulmoides		40	35	pyramidal/rounded	yellow in fall		
Kentucky Coffeetree	Gymnocladus dioica		55	45	conical/globose	yellowish in fall	✓	
Sweetgum	Liquidambar styraciflua	Palo Alto	65	50	ovate	bluish green leaflets; yellow in fall	✓	
Tulip Tree	Liriodendron tulipifera		55	45	pyramidal	aromatic leaves; brittle; red orange purple in fall		
Sargent Cherry	Prunus sargentii		60	30	oval	yellow flowers; yellow in fall		
Mount Fuji Flowering Cherry	Prunus serrulata	Columnaris	30	20	upright/rounded	single pink flowers; purple-black fruit in July; red in fall		✓
Swamp White Oak	Quercus bicolor	Shirotae	15	20	spreading	fragrant flowers; white/pink buds; red fruit		✓
Scarlet Oak	Quercus coccinea		45	45	rounded	adapted to wet soils	✓	
Pin Oak	Quercus palustris		50	40	upright/oval	red in fall	✓	
English Oak	Quercus robur		55	40	pyramidal	strong leader; retains leaves in winter; orange/red in fall	✓	
Red Oak	Quercus rubra		50	40	broadly/rounded	yellow/ brown in fall	✓	
Oak	Quercus shumardii		50	45	rounded	fast growing/large; red in fall		
Crimean Linden	Tilia x euchlora		50	40	upright/oval	red in fall		✓
Village Green Zelkova	Zelkova serrata	Village Green	40	35	pyramidal/oval	golden green twigs; yellow in fall		
			40	38	vase shaped	clean appearance; red in fall		

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DWG: TABLE G3.DWG



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PLANT MATERIALS FOR CLARK COUNTY R.O.W.
TREES 8' OR LARGER BED WIDTH

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**TABLE
G3**

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PLANT MATERIAL FOR CLAK COUNTY RIGHTS OF WAY

Plant sizes reflect typical mature height and width with little to no pruning.
 Size of plant at planting should be 1-5 gallon size.

SHRUBS AND ACCENT PLANTS

Scientific Name	Common Name	Variety	HT.	Mature Width	Features / Considerations
Abelia chinensis	Abelia		4-5'	4-5'	fragrant, pink tinted white flowers
Arbutus Unedo	Strawberry tree	compacta	10'	10'	bloom and fruit at the same time
Berberis thunbergii	Barberry	crimson	2'	2'	must have sun for red color
Camellia japonica	Camellia	Several	6-12'	6-12'	many flowers colors and forms
Caryopteris	Bluebeard	blue mist	2'	2'	late blue blooms, rot problems in wet
Ceanothus	Wild lilac	frosty blue	6-9'	8-10'	Can be shaped into a tree
Cistus	Rock rose	several	1'	8'	good erosion control on banks
Cornus stolonifera	Keiseyi dogwood	nana	1-2'	1-2'	nice dwarf form
Daphne	Daphne	several	1-6'	2-6'	very fragrant
Euonymus alatus	Winged Euonymus	several	4-8'	3-8'	deciduous, plants are normally
Euonymus fortunei	Euonymus	greenlane	3-4'	4-5'	green foliage, orange fall fruits
Euonymus fortunei	Euonymus	Ivory jade	3'	6'	creamy white margins with pink tint in
Euonymus fortunei	Euonymus	moon	3'	4'	bright yellow leaves with green
Escallonia	Escallonia	compacta	3'	3'	rose red flowers
Forsythia	Forsythia	arnold dwarf	1-3'	6'	yellow blooms March-April
Fothergilla gardenii	Dwarf Fothergilla		2-3'	2-3'	excellent fall color
Hibiscus syriacus	Rose of Sharon		10'	6'	Can be trained into small tree
Ilex crenata	Japanese Holly	helleri	1-2'	2'	Polished small leaf evergreen, very
Mahonia aquifolium	Oregon grape	compacta	2-3'	5'	yellow flowers and blue berries
Nandina domestica	Heavenly bamboo	several	2-6'	2-3'	adds color year round
Philadelphus	Mock orange	microphyllus	4-5'	4-5'	white flowers
Pinus mugo mugo	Mugo pine		4-8'	4-8'	drought tolerant dwarf varieties

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DWG: TABLE G4.DWG



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PLANT MATERIALS FOR CLARK COUNTY R.O.W.
 SHRUBS A-P

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**TABLE
 G4**

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PLANT MATERIAL FOR CLARK COUNTY RIGHTS OF WAY

Plant sizes reflect typical mature height and width with little to no pruning.
Size of plant at planting should be 1-5 gallon size.

SHRUBS AND ACCENT PLANTS

Scientific Name	Common Name	Variety	Mature		Features/Considerations
			HT.	Width	
Prunus laurocerasus	Otto luyken laurel	otto luyken	3-4'	5-6'	makes a nice low hedge
Rhaphirolepis	Indian hawthorn	indinca	4-5'	5-6'	leaf spot fungus in the NW
Rhaphirolepis	Indian hawthorn	umbellata	4-6'	4-6'	less subject to leaf spot than indinca
Rhododendron	Rhododendron	several	varied	varied	most can not tolerate full sun.
Rhododendron	Azalea	several	varied	varied	best in partial to full shade
Rosa	Wild rose	several	3-6'	4-6'	good varieties include nootka and low maintenance
Rosa	Carpet rose		1-3'	2-4'	
Rosmarinus	Rosemary	several	1-6'	1-6'	flowers are shades of blue
Sarcococca	Sweet box		4-6'	3-7'	very fragrant, needs shade
Spirea densiflora	Mountain spirea		1-3'	1-3'	dark green, leaves rosy pink flowers
Spirea densiflora	Mountain spirea	summer	2.5'	2.5'	bronzy new growth and bronzy fall
Spirea japonica	Spirea	bumalda	3'	3'	dark pink flowers, bronze new growth
Spirea japonica	Spirea	coccinea	2-3'	2-3'	maroon tinged foliage, red flowers
Spirea japonica	Spirea	gold mound	3'	4'	foliage is yellow green and flowers
Spirea japonica	Spirea	many others	1-5'	3-6'	several colors and sizes
Symphoricarpos	Common snowberry		2-6'	2-6'	pink flowers, white fruit
Symphoricarpos	Indian currant		2-6'	2-6'	great fall color
Vaccinium ovatum	Evergreen		2-3'	2-3'	fruit is edible-twice as big in shade
Viburnum davidii	Dauids viburnum		2-4'	3-5'	can have pest problems

DWG: TABLE G5.DWG

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PLANT MATERIALS FOR CLARK COUNTY R.O.W.
SHRUBS P-V

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**TABLE
G5**

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PLANT MATERIAL FOR CLARK COUNTY RIGHTS OF WAY
 Plant sizes reflect typical mature size with little to no pruning.
 Size of plant at planting should be 4" to 1 gallon pot.

Ground covers

Scientific Name	Common Name	HT.	Mature Width	Features/Considerations
Ajuga reptans	carpet bugle	8-10"	spreading	Quick spreading ground cover
Arctostaphylos uva-ursi	kinnikinnick	8"	15"	Flat growing evergreen.
Ceratostigma	dwarf plumbago	6-12"	2'	Fall blue bloom color
Cotoneaster	cotoneaster	2-3'	6-15'	Can be a problem in high litter areas.
Deutzia gracilis	deutzia	1-2'	5'	snowy white flowers
Euonymus fortunei	winter creeper	2'	4-8'	nice fall color
Fragaria	ornamental strawberry	4-8"	12"	Alpine, Pink Panda etc...
Gaitheria shallon	salal	1-2'	2-4'	bright green foliage
Hemerocallis	daylily	1-3'	1-2'	several flower colors available
Juniperus horizontalis	ground cover juniper	6-14"	6-10'	Hardy and Drought tolerant
Juniperus chinensis	ground cover juniper	18"	8'	new growth blue green
Lavandula	lavender	1-2'	1-3'	several varieties available, fragrant
Vinca Minor	periwinkle	1'	2'	Spreading . Several colors available

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DWG: TABLE G6.DWG



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PLANT MATERIALS FOR CLARK COUNTY R.O.W.
 GROUND COVERS

Peter Capen
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**TABLE
 G6**

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