

ADDRESS: 380 WILLIAM AVENUE PROJECT No: 2008-080 DESCRIPTION: LANDSCAPING SPECIFICATIONS DATE: 2009.08.25 FILE NAME: 200808010.dwg L2

NOTES :

TREES, SHRUBS AND PLANTING BEDS

THIS SPECIFICATION SHALL COVER THE SUPPLY AND INSTALLATION OF TREES, SHRUBS AND OTHER PLANTS, INCLUDING PLANTING BEDS AS SHOWN ON THE DRAWINGS.

THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, EQUIPMENT AND SERVICES NECESSARY, INCLUDING ALL THINGS NECESSARY FOR AND INCIDENTAL TO THE SATISFACTORY PERFORMANCE AND COMPLETION OF THE WORK AS SPECIFIED HEREIN.

SOURCE QUALITY CONTROL

OBTAIN APPROVAL FROM THE CONTRACT ADMINISTRATOR OF PLAN MATERIAL AT SOURCE PRIOR TO DIGGING.

PROTECTION

COORDINATE SHIPPING OF NURSERY STOCK AND EXCAVATION OF HOLES TO ENSURE MINIMUM TIME LAPSE BETWEEN DIGGING AND PLANTING. TIE BRANCHES OF NURSERY STOCK SECURELY, AND PROTECT PLANTS AGAINST ROPE OR WIRE, WHICH WOULD DAMAGE BARK, BREAK BRANCHES OR DESTROY NATURAL SHAPE OF PLANT. GIVE FULL SUPPORT TO ROOT BALL OF NURSERY STOCK DURING LIFTING. COVER PLANT FOLIAGE WITH TARPULIN, AND PROTECT BARE ROOTS BY MEANS OF DAMPENED STRAW, PEAT MOSS, SAW DUST OR OTHER ACCEPTABLE MATERIAL TO PREVENT LOSS OF MOISTURE DURING TRANSIT AND STORAGE. REMOVE BROKEN AND DAMAGED ROOTS WITH SHARP PRUNING SHEARS. MAKE CLEAN CUTS AND COVER CUTS OVER 10 mm DIAMETER WITH A TREE WOUND DRESSING.

PRODUCTS

PLANTING BEDS AND PLANTING SOIL

PLANTING BED DEPTH SHALL BE 300 mm UNLESS OTHERWISE STATED.

PLANT MATERIAL

PLANT MATERIAL SHALL BE AS SPECIFIED ON THE PLANT SPECIFICATION LIST ON THE LANDSCAPE PLAN. ALL SIZES SHOWN ARE MINIMUM. PLANT FORM, HABIT, ETC. SHALL BE IN ACCORDANCE WITH THE MOST RECENT CANADIAN NURSERY LANDSCAPE ASSOCIATION (CNLA) PUBLICATIONS.

QUALITY AND SOURCE ARE TO COMPLY WITH THE CANADIAN STANDARDS FOR NURSERY STOCK, SEVENTH EDITION OF CNLA REFERRING TO SIZE AND DEVELOPMENT OF PLANT MATERIAL AND ROOT BALL. MEASURE TREES WHEN BRANCHES ARE IN THEIR NATURAL POSITION. HEIGHT AND SPREAD DIMENSION REFER TO MAIN BODY OF TREES AND NOT FROM BRANCH TOP TO BRANCH TOP. USE TREES OF NO. 1 GRADE. UNLESS SPECIFIED AS MULTI-STEM. TREES ARE TO HAVE ONLY ONE, STURDY REASONABLY STRAIGHT AND VERTICAL TRUNK, AND A WELL-BALANCED CROWN WITH FULL DEVELOPED LEADER. EVERGREENS ARE TO BE FULL AND BUSHY TO GRADE WITH SINGLE LEADER ONLY. HEIGHT TO BE MEASURED TO PREVIOUS YEAR'S GROWTH.

TREES AND SHRUBS ARE TO BE FREE OF DISEASE, INSECT INFESTATION, RODENT DAMAGE, SUN SCALD, FROST CRACKS, ABRASIONS, UNHEALED SCARS, SCARS EXCEEDING 4 cm IN DIAMETER, MAJOR FORKS OR CROOKS IN THE TRUNK, BROKEN BRANCHES, OR ANGLED LEADERS. BARE ROOT IS NOT ACCEPTABLE. PLANTS HAVING THE ABOVE DEFECTS WILL NOT BE ACCEPTED BY THE CONTRACT ADMINISTRATOR.

STONE MULCH - 140-300 mm UNISTONE RUBBLE.

LANDSCAPE FABRIC: 'WEEDPRO' OR APPROVED EQUAL.

BOULDERS: 600 mm - 1.2 m DIAMETER BOULDERS. OBTAIN FROM CONTRACT ADMINISTRATOR APPROVAL OF BOULDERS PRIOR TO DELIVER TO THE SITE.

EDGING: 'BLACK DIAMOND EDGING' OR APPROVED EQUAL.

SOD

FOR SODDING SPECIFICATIONS REFER TO CITY OF WINNIPEG'S STANDARD CONSTRUCTION SPECIFICATIONS SECTION CW3510-R8.

INSTALLATION

THE CONTRACTOR SHALL NOT INSTALL STONE MULCH UNTIL THE FINISHED GRADE IS INSPECTED AND APPROVED BY THE CONTRACT ADMINISTRATOR.

LANDSCAPE FABRIC SHALL COVER ALL AREAS TO RECEIVE STONE BARK MULCH AND BE COMPLETELY COVERED BY THE MULCH. THE ENDS SHALL BE BURIED SO THE FABRIC DOES NOT LIFT UP. FABRIC IS TO BE CUT IN LOCATION FOR PLANT MATERIAL.

WHEREVER STONE MULCH MEETS TURF OR PLANTING BEDS AND UNISTONE PAVER IS NOT SPECIFIED, BLACK DIAMOND EDGING IS TO BE INSTALLED AS PER MANUFACTURER'S INSTRUCTION.

STONE MULCH IS TO BE SPREAD EVENLY TO A DEPTH OF 100 mm. MULCH IS TO BE CLEAN AND NO EXTRANEIOUS MATERIALS OR DEBRIS IS ALLOWED.

BOULDERS SHALL BE INSTALLED IN LOCATIONS SHOWN ON THE LANDSCAPE PLAN AND AS DIRECTED BY THE CONTRACT ADMINISTRATOR. THEY SHALL BE ARRANGED IN A NATURAL MANNER AND BE INSTALLED SO THAT ± 1/3 OF THE BOULDER IS BURIED.

TREES AND SHRUBS ARE TO BE PLANTED ACCORDING TO THE LANDSCAPE PLAN AND PLANTING DETAILS.

LOCATION OF NURSERY STOCK WILL BE STAKED OUT OR PAINTED ON SITE BY THE CONTRACTOR IN CONSULTATION WITH THE CONTRACT ADMINISTRATOR.

THE CONTRACTOR SHALL COORDINATE OPERATIONS, KEEPING THE SITE CLEAN AND THE PLANTING HOLES DRAINED. THE CONTRACTOR SHALL IMMEDIATELY REMOVE SOIL OR DEBRIS SPILLED ONTO STREET PAVEMENT, GRASS OR SIDEWALK.

INSTALLATION SHALL BE DONE DURING PERIODS OF SUITABLE WEATHER CONDITIONS AND IN ACCORDANCE WITH LOCALLY ACCEPTED PRACTICE. TREES ARE TO BE PLANTED WITHIN FORTY-EIGHT (48) HOURS OF EXCAVATION FROM THE NURSERY. NO TREE PITS IS TO BE LEFT OPEN AT THE END OF THE CONTRACTOR'S WORK DAY. THE PLANTING PROGRAM IS TO BE PLANNED TO ENSURE THAT TREES DELIVERED TO THE SITE AT DESIGNATED PLANTING LOCATIONS ARE INSTALLED AND THOROUGHLY WATERED THE SAME DAY AS DELIVERY.

PLANT TREES AND SHRUBS VERTICALLY. ORIENT PLANTS TO GIVE BEST APPEARANCE IN RELATION TO STRUCTURES, ROADS AND SIDEWALKS. PLACE NURSERY STOCK TO DEPTH EQUAL TO DEPTH THEY WERE ORIGINALLY GROWING IN NURSERY. WITH BALLED AND BURLAPPED ROOT BALLS AND ROOT BALLS IN WIRE BASKETS. LOOSEN BURLAP AND CUT AWAY THE TOP 1/3 WITHOUT DISTURBING ROOT BALL. DO NOT PULL BURLAP OR ROPE FROM UNDER ROOT BALL. NON-BIODEGRADABLE WRAPPING MUST BE REMOVED. TAMP PLANTING SOIL AROUND ROOT SYSTEM IN LAYERS OF 140 MM ELIMINATING AIR VOIDS. FROZEN OR SATURATED PLANTING SOIL IS UNACCEPTABLE. WHEN 2/3 OF PLANTING SOIL HAS BEEN PLACED, FILL HOLE WITH WATER. AFTER WATER HAS COMPLETELY PENETRATED INTO SOIL, COMPLETE BACKFILLING.

EACH TREE IS TO HAVE AN EARTH SAUCER AT ITS BASE HAVING A DIAMETER AS LARGE AS THE EXCAVATION WITH A 100 mm LIP FORMED AT THE PERIMETER OF THE SAUCER TO RETAIN WATER. WHEN PLANTING IS COMPLETED, GIVE SURFACE OF PLANTING SAUCER DRESSING OF FERTILIZER AND MIX FERTILIZER THOROUGHLY WITH TOP LAYER OF PLANTING SOIL AND WATER IN WELL.

TREE SUPPORTS

ALL TREES SHALL BE STAKED OR GUYED WITH 3 GUY WIRES AND ANCHORS, TO ACCEPTABLE HORTICULTURAL PRACTICES AND SATISFACTION OF THE CONTRACT ADMINISTRATOR.

MULCH

STONE MULCH IS TO BE INSTALLED TO 100 mm DEPTH OVER LANDSCAPE FABRIC IN LOCATIONS SHOWN ON THE LANDSCAPE PLAN.

WOOD CHIP MULCH IS TO BE INSTALLED TO 75 mm DEPT AROUND ALL TREES AND IN SHRUB BEDS AS INDICATED ON THE LANDSCAPE PLAN.

ENSURE SOIL SETTLEMENT HAS BEEN CORRECTED PRIOR TO MULCHING.

NURSERY STOCK IS TO BE GROWN IN NURSERIES UNDER PROPER CULTURAL PRACTICES AS RECOMMENDED BY THE CANADIAN NURSERY TRADES ASSOCIATION. ONLY NURSERY STOCK GROWN FOR AT LEAST THE LAST FOUR (4) YEARS IN NURSERIES LOCATED IN AN AGRICULTURE CANADA PLANT HARDINESS ZONE OF 2(A OR B) OR 3 (A OR B) WILL BE ACCEPTED. NURSERY STOCK THAT HAS GROWN IN PANT HARDINESS ZONES 1 AND 4 OR GREATER WILL BE REJECTED.

WATER

WATER IS TO BE POTABLE AND FREE OF MINERALS, WHICH MAY BE DETRIMENTAL TO PLANT GROWTH.

FERTILIZER

FERTILIZER IS TO BE A SLOW RELEASE FORMULATION OF LOW NITROGEN AND HIGH PHOSPHORUS E.G. 10-50-12. APPLY QUANTITIES AT RATES STATED BY PRODUCT MANUFACTURER.

MULCH

STONE MULCH: 150 - 300 mm IN DIAMETER LIMESTONE.

WOOD CHIP MULCH: LOCAL SHREDDED WOOD CHIP MULCH.

SAMPLES MUST BE SUPPLIED FOR APPROVAL PRIOR TO INSTALLATION. NO DEBRIS PERMITTED.

LANDSCAPE FABRIC SHALL BE COMPLETELY COVERED BY THE MULCH AND THE ENDS SHALL BE BURIED SO THAT FABRIC DOES NOT LIFT UP.

MAINTENANCE PERIOD

SUBSTANTIAL PERFORMANCE SHALL BE ACHIEVED ONCE ALL MATERIALS ARE IN PLACE. THE CONTRACTOR SHALL MAINTAIN THE PLANT MATERIAL FOR ONE (1) YEAR AFTER THE COMPLETION OF THE INSTALLATION.

WATER PLANTINGS SUFFICIENTLY AND REGULARLY TO MAINTAIN OPTIMUM GROWTH AND HEALTH OF PLANTS WITHOUT CAUSING EROSION. FOR EVERGREEN PLANT MATERIAL, WATER THOROUGHLY IN LATE FALL PRIOR TO FREEZE-UP TO SATURATE SOIL AND AROUND ROOT SYSTEM.

REMOVE WEEDS USING CONTROL METHODS ACCEPTABLE TO CONTRACT ADMINISTRATOR.

MAINTAIN TREE GUARDS, GUY WIRES AND WRAPPINGS IN PROPER REPAIR.

REPLACE OR RE-SPREAD DAMAGED, MISSING OR DISTURBED MULCH. MAINTAIN PROPER MULCH DEPTHS.

ACCEPTANCE

TOTAL PERFORMANCE SHALL BE GRANTED AT THE END OF THE MAINTENANCE PERIOD.

WARRANTY PERIOD

THE WARRANTY/MAINTENANCE PERIOD OF ONE (1) YEAR SHALL COMMENCE AT TOTAL PERFORMANCE. PLANT MATERIAL SHALL BE REPLACED AS INSTRUCTED BY THE CONTRACT ADMINISTRATOR. ALL MATERIAL THAT IS REPLACED DURING THE MAINTENANCE PERIOD SHALL BE OF THE SAME SIZE, CALIPER AND SPECIES AS THE ORIGINAL PLANT MATERIAL UNLESS OTHERWISE AGREED TO, IN WRITING, BY THE CONTRACT ADMINISTRATOR. PLANT MATERIAL THAT IS REPLACED WILL RECEIVE AN ADDITIONAL ONE (1) YEAR WARRANTY /MAINTENANCE, WHICH WILL COMMENCE ON THE DATE OF REPLACEMENT.


SEASONAL WEATHER

DUE TO SEASONAL WEATHER, INSTALLATION SHALL BE DONE DURING PERIODS OF SUITABLE WEATHER CONDITIONS AND IN ACCORDANCE WITH LOCALLY ACCEPTED PRACTICES. PLANTS, SHRUBS, TREES & SOD SHALL BE INSTALLED THE FOLLOWING SPRING ONCE THE FROST HAS LEFT THE GROUND .

ORIGINAL STAMPED BY:	R.K.FOK LI Arch.
DATE:	2009.10.08

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SEALS			

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**CITY OF WINNIPEG
 PLANNING, PROPERTY AND
 DEVELOPMENT DEPARTMENT
 CIVIC ACCOMMODATIONS DIVISION
 300 - 65 GARRY ST. R3C 4K4**

PROJECT
 CITY ARCHIVES BUILDING
 BARRIER FREE ACCESS TO ENTRANCE
 & FENCE RECONSTRUCTION
 380 WILLIAM AVENUE

SHEET TITLE

LANDSCAPING SPECIFICATIONS

SCALE	PROJECT NO.	SHEET NO.
AS SHOWN	2008-080	L2