

**SHRUBS AND PLANTING BEDS**

THIS SPECIFICATION SHALL COVER THE SUPPLY AND INSTALLATION OF 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 3/8" DIAMETER WITH A TREE WOUND DRESSING.

**PRODUCTS**

**PLANTING BEDS AND PLANTING SOIL**

PLANTING BED DEPTH SHALL BE 1'-0" 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.

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.

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 PART HARDINESS ZONES 1 AND 4 OR GREATER WILL BE REJECTED.

**LANDSCAPING FINISHES**

STONE MULCH: 1" TO 2" UNIFORM DARK GREY COLOUR.

STONE MULCH IS TO BE INSTALLED TO 4" DEPTH OVER LANDSCAPE FABRIC IN LOCATIONS SHOWN ON THE LANDSCAPE PLAN. SAMPLES MUST BE SUPPLIED FOR APPROVAL PRIOR TO INSTALLATION. NO DEBRIS PERMITTED.

WOOD CHIP MULCH: LOCAL SHREDDED WOOD CHIP MULCH-COLOUR TO BE APPROVED BY CONTRACT ADMINISTRATOR.

WOOD CHIP MULCH IS TO BE INSTALLED TO 3" DEPTH IN SHRUB BEDS AS INDICATED ON THE LANDSCAPE PLAN C/W LANDSCAPE FABRIC. ENSURE SOIL SETTLEMENT HAS BEEN CORRECTED PRIOR TO MULCHING.

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

LANDSCAPE FABRIC: 'WEEDPRO' OR APPROVED EQUAL IN ACCORDANCE WITH B7. LANDSCAPE FABRIC SHALL BE COMPLETELY COVERED BY THE MULCH AND THE ENDS SHALL BE BURIED SO THAT FABRIC DOES NOT LIFT UP.

SHALE SCREENING: 2" COMPACTED SHALE SCREENING C/W LANDSCAPE FABRIC C/W 4" COMPACTED LIMESTONE BASE. SAMPLES MUST BE SUPPLIED FOR APPROVAL PRIOR TO INSTALLATION. NO DEBRIS PERMITTED.

ARCHITECTURAL STONE SHARD PIECES: A NUMBER OF PIECES (APPROX. 11 TO 13 PIECES @ +/- 2'-0" SQUARE) ARE LOCATED ON SITE & ARE TO BE MOVED TO NEW LOCATION VIA HAND OR MACHINE. CAUTION IS TO BE TAKEN NOT TO DO DAMAGE ANY EXPOSED DETAILING DURING TRANSPORTATION. SOME NEWER SHARD PIECES (5-10) WILL BE REQUIRED & ARE TO BE ARRANGED FOR PICK UP BY CONTRACTOR IN THE INSIDE OR OUTSIDE THE CITY LIMITS. ARRANGEMENTS OF SHARDS ARE TO BE PLACED AT LOCATION AS SUPERVISED BY CONTRACT ADMINISTRATOR AT TIME OF INSTALLATION. SOME ANCHORING OF SHARDS WITH REBAR & /OR CONCRETE MAY BE REQUIRED TO STABILIZE SHARDS TO GROUND OR BELOW GRADE FROM MOVING OR FROM BEING REMOVED FROM SITE. SOME PIECES MAY ALSO NEED TO BE RECESSED BELOW GRADE AS SUPERVISED.

BOULDERS & LARGE ROCKS: SUPPLY & INSTALL (10) GRANITE BOULDERS & LARGE ROCKS RANGING FROM 16" TO 30" DIA. (APPROX. LOCATIONS ON L1). STONE TO BE CLEAN & FREE OF DIRT, UN-NATURAL STAINS & BLEMISHES.

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 PAVEMENT 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 4". MULCH IS TO BE CLEAN AND NO EXTRANEIOUS MATERIALS OR DEBRIS IS ALLOWED.

STONE FACADE PIECES SHALL BE INSTALLED IN LOCATION SHOWN ON THE LANDSCAPE PLAN AND AS DIRECTED BY THE CONTRACT ADMINISTRATOR ON SITE @ TIME OF INSTALLATION. THEY SHALL BE ARRANGED TO THE SPECIFICATION & DIRECTION OF THE CONTRACT ADMINISTRATOR.

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.

PLANT 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 5 1/2" 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.

**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.

**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.

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.

ISSUED FOR CONSTRUCTION MMK 2015.07.24

No.	REVISION/DESCRIPTION	BY	DATE
SEAL			



DRAWN	CHECKED	DESIGNED	APPROVED
DATE 2015.03.03	USER		
	APPROVAL		


**THE CITY OF WINNIPEG**  
 PLANNING, PROPERTY AND  
 DEVELOPMENT DEPARTMENT  
 MUNICIPAL ACCOMMODATIONS DIVISION  
 3-65 GARRY STREET, R3C 4K4

PROJECT  
**FORT GARRY LIBRARY**  
**EXTERIOR REFURBISHING**

1360 PEMBINA HIGHWAY

SHEET TITLE  
**LANDSCAPING SPECIFICATIONS**

SCALE	PROJECT No:	SHEET No:
AS SHOWN	2015-054	L2