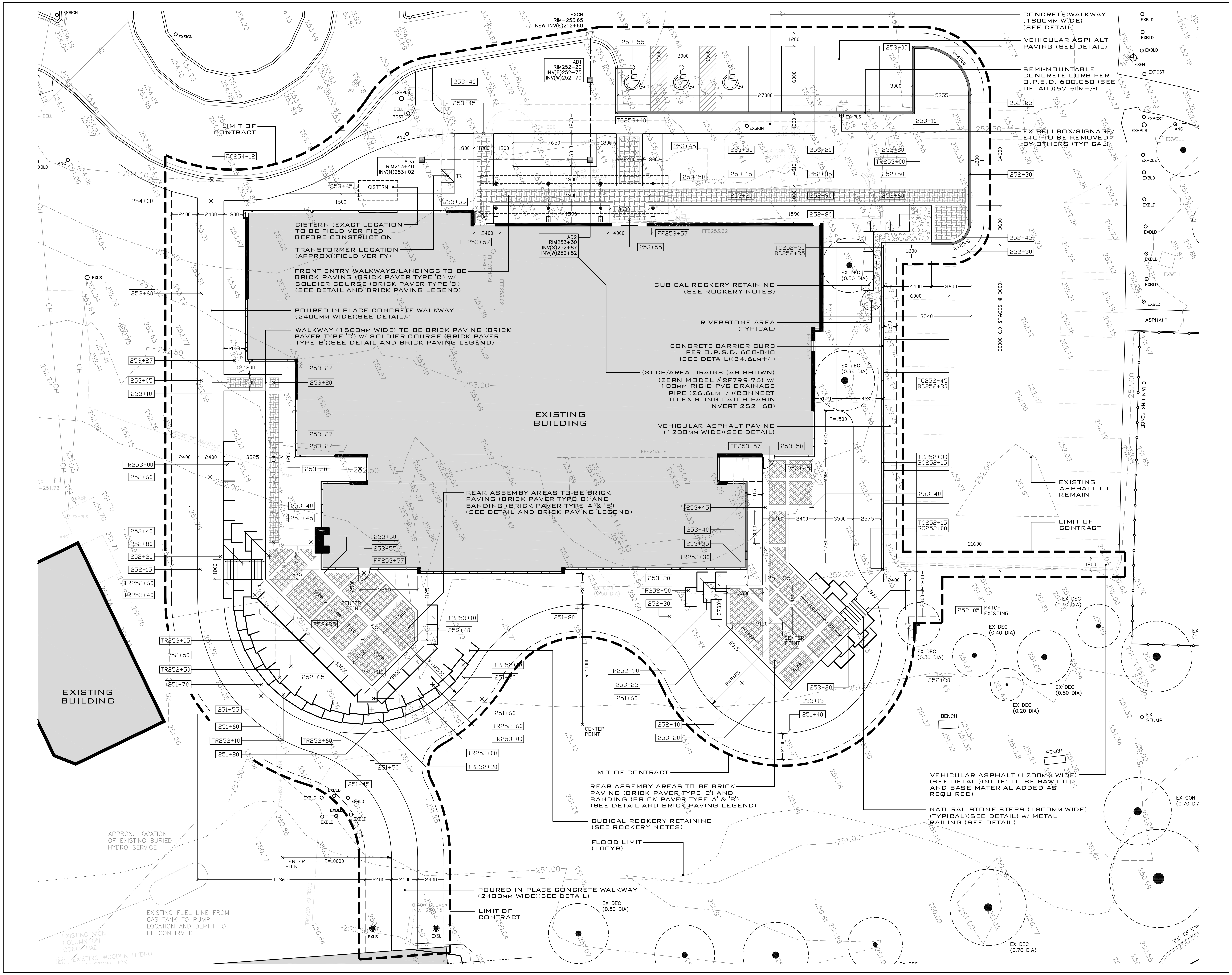

EXISTING BUILDING
CISTERN (EXACT LOCATION TO BE FIELD VERIFIED BEFORE CONSTRUCTION
TRANSFORMER LOCATION (APPROX)(FIELD VERIFY)
FRONT ENTRY WALKWAYS/LANDINGS TO BE BRICK PAVING (BRICK PAVER TYPE 'C') w/ SOLDIER COURSE (BRICK PAVER TYPE 'B') (SEE DETAIL AND BRICK PAVING LEGEND)
POURED IN PLACE CONCRETE WALKWAY (2400MM WIDE)(SEE DETAIL)
WALKWAY (1500MM WIDE) TO BE BRICK PAVING (BRICK PAVER TYPE 'C') w/ SOLDIER COURSE (BRICK PAVER TYPE 'B')(SEE DETAIL AND BRICK PAVING LEGEND)
REAR ASSEMBY AREAS TO BE BRICK PAVING (BRICK PAVER TYPE 'C') AND BANDING (BRICK PAVER TYPE 'A' & 'B') (SEE DETAIL AND BRICK PAVING LEGEND)
CUBICAL ROCKERY RETAINING (SEE ROCKERY NOTES)
RIVERSTONE AREA (TYPICAL)
CONCRETE BARRIER CURB PER O.P.S.D. 600-040 (SEE DETAIL)(34.6LM+/-)
(3) CB/AREA DRAINS (AS SHOWN) (ZERN MODEL #2F799-76) w/ 100MM RIGID PVC DRAINAGE PIPE (26.6LM+/-)(CONNECT TO EXISTING CATCH BASIN INVERT 252+60)
VEHICULAR ASPHALT PAVING (1200MM WIDE)(SEE DETAIL)
CONCRETE WALKWAY (1800MM WIDE) (SEE DETAIL)
VEHICULAR ASPHALT PAVING (SEE DETAIL)
SEMI-MOUNTABLE CONCRETE CURB PER O.P.S.D. 600.060 (SEE DETAIL)(57.5LM+/-)
EX BELLBOX/SIGNAGE/ ETC. TO BE REMOVED BY OTHERS (TYPICAL)
EXISTING ASPHALT TO REMAIN
LIMIT OF CONTRACT
VEHICULAR ASPHALT (1200MM WIDE) (SEE DETAIL)(NOTE: TO BE SAW CUT AND BASE MATERIAL ADDED AS REQUIRED)
NATURAL STONE STEPS (1800MM WIDE) (TYPICAL)(SEE DETAIL) w/ METAL RAILING (SEE DETAIL)
FLOOD LIMIT (100YR)
APPROX. LOCATION OF EXISTING BURIED HYDRO SERVICE
EXISTING FUEL LINE FROM GAS TANK TO PUMP. LOCATION AND DEPTH TO BE CONFIRMED
EXCB RIM=253.65 NEW INV(E)252+60
AD1 RIM252+20 INV(E)252+75 INV(W)252+70
AD2 RIM253+30 INV(S)252+87 INV(W)252+82
AD3 RIM253+40 INV(N)253+02
CISTERN
TR
CENTER POINT
R=11000
R=10000
R=9125
R=12500
R=4500
R=2000
R=1500
30000 (10 SPACES @ 3000)
27000
21600
15365
13540
EX DEC (0.50 DIA)
EX DEC (0.60 DIA)
EX DEC (0.40 DIA)
EX DEC (0.30 DIA)
EX DEC (0.20 DIA)
EX DEC (0.70 DIA)
EX CON (0.70 DIA)
EX STUMP
BENCH
MATCH EXISTING
CHAIN LINK FENCE
ASPHALT
FFE253.62
FFE253.59
FF253+57
TC254+12
TC253+40
TC252+50 BC252+35
TC252+45 BC252+30
TC252+30 BC252+15
TC252+15 BC252+00
251.00
252.00
253.00

ROCKERY NOTES:

Place 300+/- tons (or 80+/- pieces of stone) of slab type weathered limestone

Pieces to range from a minimum size (150cm length x50cm height x varying width) to a maximum size (240cm length x60cm height x 100cm width)

Provide for a broad range of pieces in order to construct a random natural effect

Place 300mm (minimum) of clear crushed stone behind and under all stone work

Place a continuous & overlapping single layer of terrafix 270R filter fabric under and behind all stones before placement of clear stone

BRICK PAVER LEGEND:

Brick paver type 'a':

Brick: il campo
pattern:
double row soldier course
(large square - 12"x12")
colour: heritage brown
manufacturer: unilock

Brick paver type 'b':

Brick: il campo
pattern:
single row soldier course
(large rectangle - 4"x12")
colour: heritage brown
manufacturer: unilock

Brick paver type 'c':

Brick: europaver
pattern: herringbone
(rectangle - 6"x12")
colour: chamois - custom
manufacturer: unilock

PLT22/12/10

REVISIONS:

DATE	NO.	ITEM	BY

LANDSCAPE ARCHITECTS
LANDSCAPE DESIGN, CONSULTATION
& PROJECT MANAGEMENT

DANIEL J. O'BRIEN
& associates ltd.

180 MARY STREET
PORT PERRY, ONTARIO
L9L 1B7

TEL: 905-985-4466
WEB : www.obrienassociates.ca

PROJECT:

SCUGOG MEMORIAL
LIBRARY EXPANSION

PORT PERRY, ONTARIO

DRAWING:

OVERALL LAYOUT AND
GRADING PLAN

Date:	Nov 2010	Project no:	2009-28
Designed:	dob		
Drawn:	rpr		
Checked:	dob	Drawing no:	L1 of 3
Scale:	1:125		

PLANT LIST

KEY	BOTANICAL NAME	COMMON NAME	NUM	SIZE	COND	REMARKS
HH	CALAMAGROSTIS ARAND. 'KARL FOERSTER'	FEATHER REED GRASS	16	15CM POT		
II	DESCHAMPSIA	TUFTED HAIR GRASS	36	15CM POT		
JJ	HIEROCHLOE ODORATA	SWEET GRASS	50	10CM POT		
LL	MISCANTHUS SINENSIS 'PURPURASCENS'	FLAME GRASS	109	15CM POT		
MM	PANICUM VIRGATUM 'HEAVY METAL'	HEAVY METAL SWITCH GRASS	96	15CM POT		
NN	PENNISETUM 'ORIENTALE'	ORIENTAL FOUNTAIN GRASS	96	15CM POT		
OO	PENNISETUM ORIENTALE 'KARLEY ROSE'	KARLEY ROSE FOUNTAIN GRASS	50	50CM SPR		
PP	SPOROBOLUS HETEROLEPIS	PRAIRIE DROPSEED	207	15CM POT		

PLANT LIST

KEY	BOTANICAL NAME	COMMON NAME	NUM	SIZE	COND	REMARKS
M	ROSA RUGOSA 'NEARLY WILD'	NEARLY WILD ROSE	10	60CM SPR	WB	
N	SAMBUCUS NIGRA 'EVA'	BLACK LACE ELDERBERRY	8	150CM HT	WB	
O	SYRINGA PATULA 'MISS KIM'	DWARF MISS KIM LILAC	4	100CM HT	WB	
Q	VIBURNUM PLICATUM TOM. 'MARIESII'	MARIES DOUBLEFILE VIBURNUM	2	150CM HT	WB	
AA	ACHILLEA 'SUMMER PASTELS'	SUMMER PASTELS YARROW	50	2 YR CONTAINER GROWN		
BB	HEMEROCALLIS 'HYPERION'	HYPERION DAYLILIES	36	2 YR CONTAINER GROWN		
CC	HOSTA 'BRESSINGHAM BLUE'	BRESSINGHAM BLUE PLANTAIN LILY	16	2 YR CONTAINER GROWN		
DD	HEUCHERA 'CARAMEL'	CORAL BELLS	50	2 YR CONTAINER GROWN		
EE	LEUCANTHEMUM X SUPERBUM	SHASTA DAISY	50	2 YR CONTAINER GROWN		
FF	LIATRIS SPICATA	GAYFEATHER	156	2 YR CONTAINER GROWN		
GG	MONARDA	BEEBALM	60	2 YR CONTAINER GROWN		

PLANT LIST

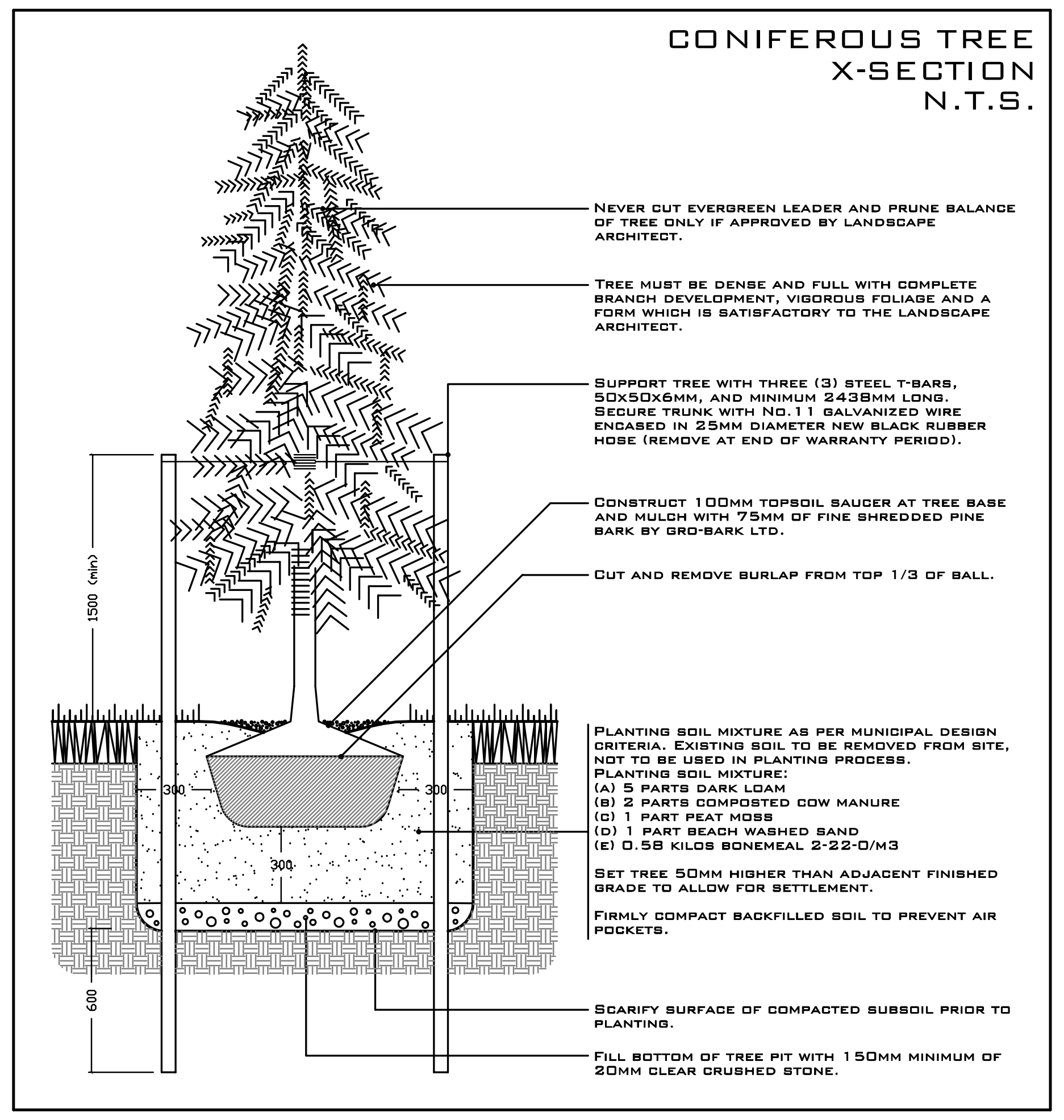
KEY	BOTANICAL NAME	COMMON NAME	NUM	SIZE	COND	REMARKS
A	BETULA PLATYPHYLLA 'ROYAL FROST'	ROYAL FROST BIRCH	1	50MM CAL	WB	
B	CARPINUS BETULUS 'FASTIGATA'	PYRAMIDAL HORNBEAM	5	50MM CAL	WB	
C	FAGUS SYLVATICA 'TRICOLOR'	TRICOLOR BEECH	1	50MM CAL	WB	
D	MALUS 'RINKI'	PYRAMIDAL RINKI CRABAPPLE	9	50MM CAL	WB	
E	TAXUS CUSPIDATA	EMERALD SPREADING JAP. YEW	3	100CM SPR	WB	
F	AMELANCHIER CANADENSIS	SERVICEBERRY	2	250CM HT	WB	CLUMP FORM
H	EUONYMOUS FORTUNEI 'SARCOXIE'	SARCOXIE EUONYMOUS	24	50CM DIA	WB	
I	HAMAMELIS VIRGINIANA	COMMON WITCH HAZEL	12	250CM HT	WB	
J	PHYSOCARPUS OPULIFOLIUS 'COPPERTINA'	COPPERTINA NINEBARK	9	100CM HT	WB	
K	RHUS TYPHINA 'BAILTIGER'	TIGER EYES CUTLEAF SUMAC	21	100CM SPR	WB	
L	ROSA RUGOSA	SHRUB ROSE	21	100CM HT	WB	

PLANTING NOTES:

ALL AREAS NOTED AS SODDED TO HAVE #1 NURSERY GROWN SOD W/ 200MM DEPTH (MINIMUM) TOPSOIL (TYPICAL)

ALL PLANTED AREAS TO HAVE 300MM DEPTH (MINIMUM) OF PLANTING MIX, AND 100MM DEPTH (MINIMUM) OF BLACK COMPOSTED BARK MULCH BY GRO-BARK LIMITED
(NOTE: MULCH LEVEL TO BE 100MM ABOVE SOD LEVEL)

CONIFEROUS TREE X-SECTION N.T.S.



NEVER CUT EVERGREEN LEADER AND PRUNE BALANCE OF TREE ONLY IF APPROVED BY LANDSCAPE ARCHITECT.

TREE MUST BE DENSE AND FULL WITH COMPLETE BRANCH DEVELOPMENT, VIGOROUS FOLIAGE AND A FORM WHICH IS SATISFACTORY TO THE LANDSCAPE ARCHITECT.

SUPPORT TREE WITH THREE (3) STEEL T-BARS, 50X50X6MM, AND MINIMUM 2438MM LONG. SECURE TRUNK WITH NO.11 GALVANIZED WIRE ENCASED IN 25MM DIAMETER NEW BLACK RUBBER HOSE (REMOVE AT END OF WARRANTY PERIOD).

CONSTRUCT 100MM TOPSOIL SAUCER AT TREE BASE AND MULCH WITH 75MM OF FINE SHREDDED PINE BARK BY GRO-BARK LTD.

CUT AND REMOVE BURLAP FROM TOP 1/3 OF BALL.

PLANTING SOIL MIXTURE AS PER MUNICIPAL DESIGN CRITERIA. EXISTING SOIL TO BE REMOVED FROM SITE, NOT TO BE USED IN PLANTING PROCESS.
PLANTING SOIL MIXTURE:
(A) 5 PARTS DARK LOAM
(B) 2 PARTS COMPOSTED COW MANURE
(C) 1 PART PEAT MOSS
(D) 1 PART BEACH WASHED SAND
(E) 0.58 KILOS BONEMEAL 2-22-0/M3

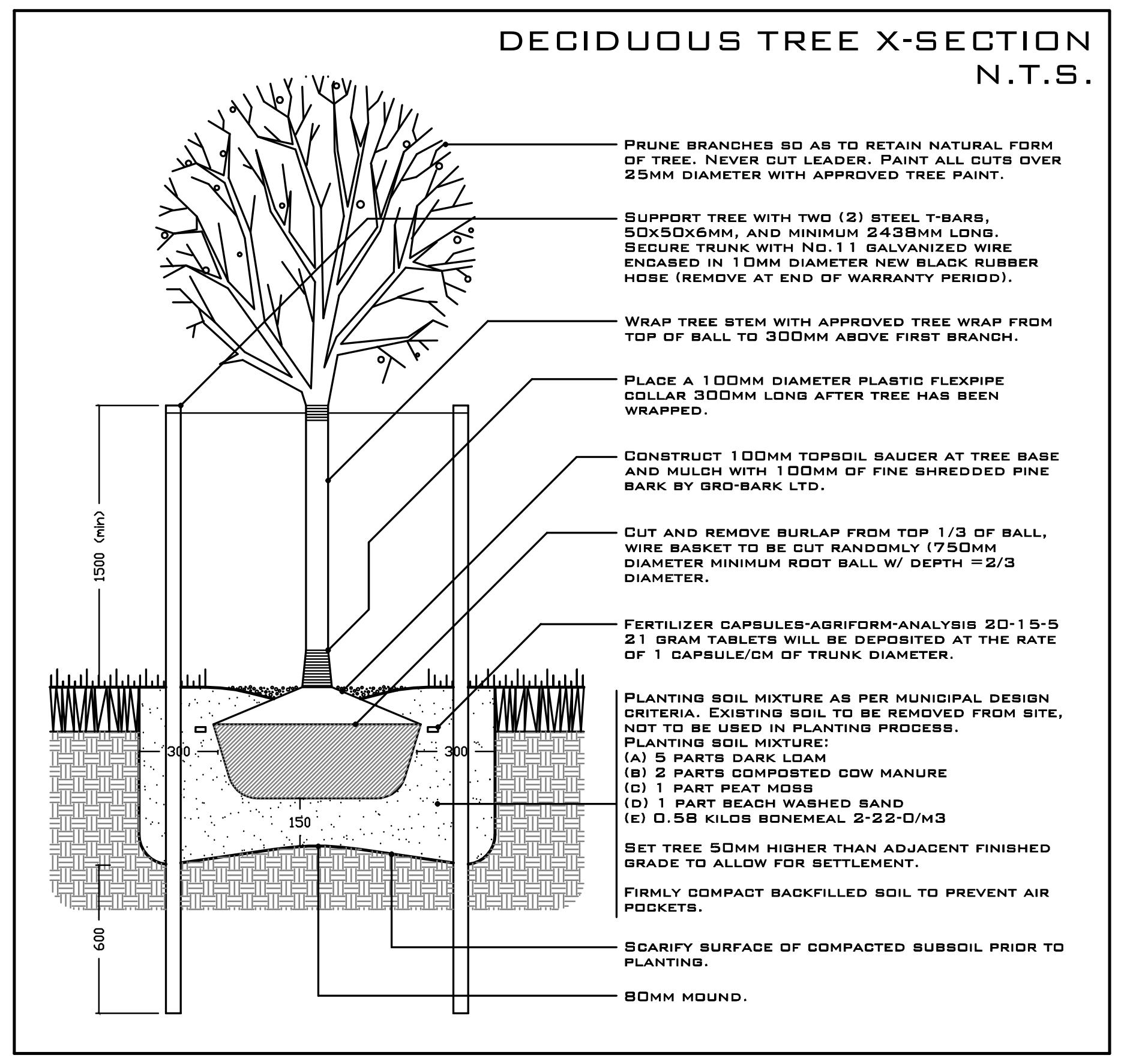
SET TREE 50MM HIGHER THAN ADJACENT FINISHED GRADE TO ALLOW FOR SETTLEMENT.

FIRMLY COMPACT BACKFILLED SOIL TO PREVENT AIR POCKETS.

SCARIFY SURFACE OF COMPACTED SUBSOIL PRIOR TO PLANTING.

FILL BOTTOM OF TREE PIT WITH 150MM MINIMUM OF 20MM CLEAR CRUSHED STONE.

DECIDUOUS TREE X-SECTION N.T.S.



PRUNE BRANCHES SO AS TO RETAIN NATURAL FORM OF TREE. NEVER CUT LEADER. PAINT ALL CUTS OVER 25MM DIAMETER WITH APPROVED TREE PAINT.

SUPPORT TREE WITH TWO (2) STEEL T-BARS, 50X50X6MM, AND MINIMUM 2438MM LONG. SECURE TRUNK WITH NO.11 GALVANIZED WIRE ENCASED IN 10MM DIAMETER NEW BLACK RUBBER HOSE (REMOVE AT END OF WARRANTY PERIOD).

WRAP TREE STEM WITH APPROVED TREE WRAP FROM TOP OF BALL TO 300MM ABOVE FIRST BRANCH.

PLACE A 100MM DIAMETER PLASTIC FLEXPIPE COLLAR 300MM LONG AFTER TREE HAS BEEN WRAPPED.

CONSTRUCT 100MM TOPSOIL SAUCER AT TREE BASE AND MULCH WITH 100MM OF FINE SHREDDED PINE BARK BY GRO-BARK LTD.

CUT AND REMOVE BURLAP FROM TOP 1/3 OF BALL, WIRE BASKET TO BE CUT RANDOMLY (750MM DIAMETER MINIMUM ROOT BALL W/ DEPTH =2/3 DIAMETER.

FERTILIZER CAPSULES-AGRIFORM-ANALYSIS 20-15-5 21 GRAM TABLETS WILL BE DEPOSITED AT THE RATE OF 1 CAPSULE/CM OF TRUNK DIAMETER.

PLANTING SOIL MIXTURE AS PER MUNICIPAL DESIGN CRITERIA. EXISTING SOIL TO BE REMOVED FROM SITE, NOT TO BE USED IN PLANTING PROCESS.
PLANTING SOIL MIXTURE:
(A) 5 PARTS DARK LOAM
(B) 2 PARTS COMPOSTED COW MANURE
(C) 1 PART PEAT MOSS
(D) 1 PART BEACH WASHED SAND
(E) 0.58 KILOS BONEMEAL 2-22-0/M3

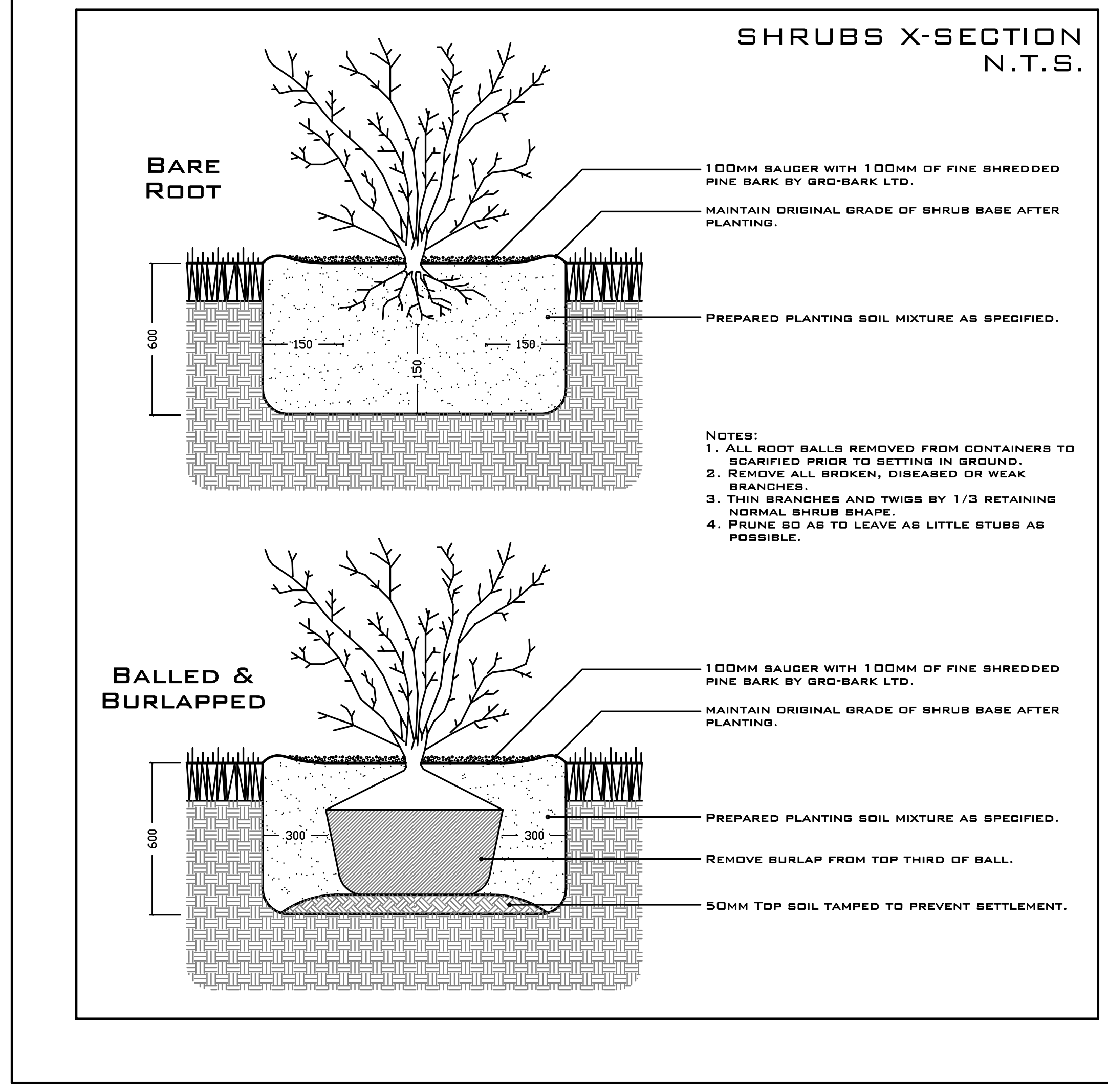
SET TREE 50MM HIGHER THAN ADJACENT FINISHED GRADE TO ALLOW FOR SETTLEMENT.

FIRMLY COMPACT BACKFILLED SOIL TO PREVENT AIR POCKETS.

SCARIFY SURFACE OF COMPACTED SUBSOIL PRIOR TO PLANTING.

80MM MOUND.

SHRUBS X-SECTION N.T.S.



100MM SAUCER WITH 100MM OF FINE SHREDDED PINE BARK BY GRO-BARK LTD.

MAINTAIN ORIGINAL GRADE OF SHRUB BASE AFTER PLANTING.

PREPARED PLANTING SOIL MIXTURE AS SPECIFIED.

NOTES:
1. ALL ROOT BALLS REMOVED FROM CONTAINERS TO SCARIFIED PRIOR TO SETTING IN GROUND.
2. REMOVE ALL BROKEN, DISEASED OR WEAK BRANCHES.
3. THIN BRANCHES AND TWIGS BY 1/3 RETAINING NORMAL SHRUB SHAPE.
4. PRUNE SO AS TO LEAVE AS LITTLE STUBS AS POSSIBLE.

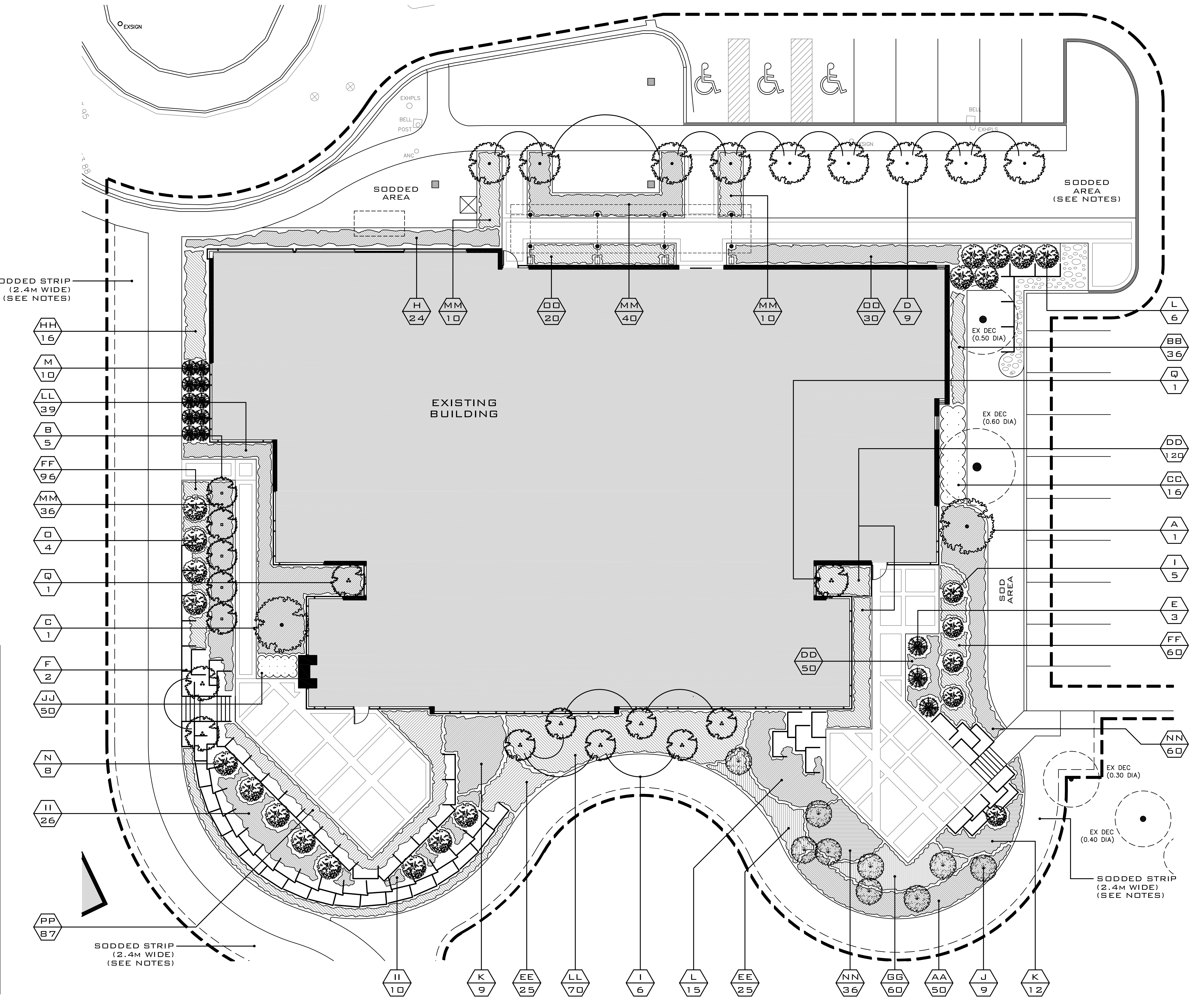
100MM SAUCER WITH 100MM OF FINE SHREDDED PINE BARK BY GRO-BARK LTD.

MAINTAIN ORIGINAL GRADE OF SHRUB BASE AFTER PLANTING.

PREPARED PLANTING SOIL MIXTURE AS SPECIFIED.

REMOVE BURLAP FROM TOP THIRD OF BALL.

50MM TOP SOIL TAMPED TO PREVENT SETTLEMENT.



PLT22/12/10

REVISIONS:

DATE	NO.	ITEM	BY

LANDSCAPE ARCHITECTS
LANDSCAPE DESIGN, CONSULTATION
& PROJECT MANAGEMENT

DANIEL J. O'BRIEN
& associates ltd.

180 MARY STREET
PORT PERRY, ONTARIO
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TEL: 905-985-4466
WEB : www.obrien associates.ca

ONTARIO ASSOCIATION OF LANDSCAPE ARCHITECTS
DANIEL J. O'BRIEN
OALA
MEMBER

PROJECT:

SCUGOG MEMORIAL
LIBRARY EXPANSION

PORT PERRY, ONTARIO

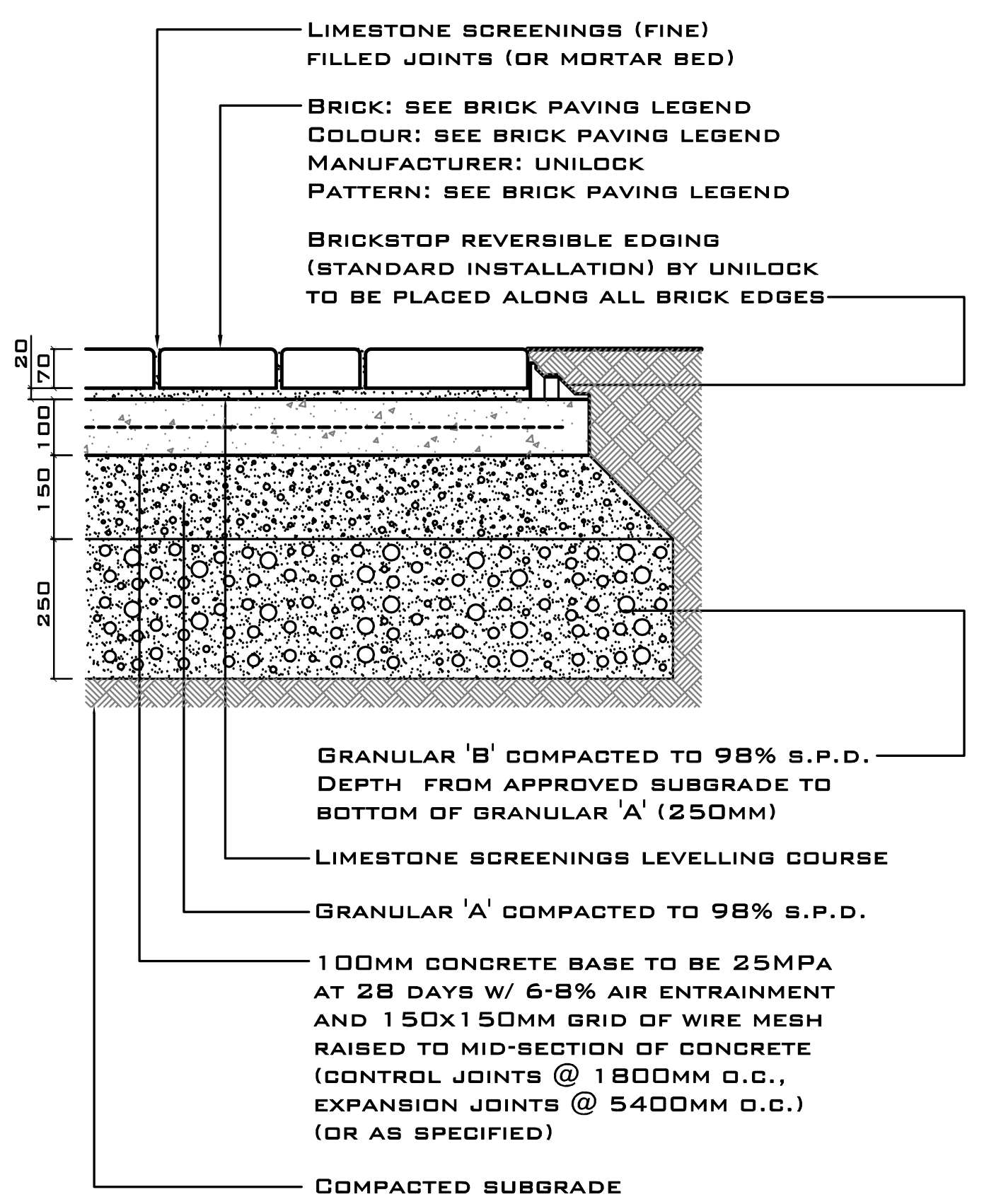
DRAWING:

PLANTING PLAN, PLANT LIST
AND CONSTRUCTION DETAILS

DATE:	NOV 2010	PROJECT NO:	2009-28
DESIGNED:	DOB		
DRAWN:	RPR		
CHECKED:	DOB	DRAWING NO:	L2 OF 3
SCALE:	1:125		

BRICK PAVING w/ CONCRETE BASE X-SECTION N.T.S.

Note: Granular base depth may vary depending on site soil conditions (to be determined)



Limestone screenings (fine) filled joints (or mortar bed)

Brick: see brick paving legend
Colour: see brick paving legend
Manufacturer: unilock
Pattern: see brick paving legend

Brickstop reversible edging (standard installation) by unilock to be placed along all brick edges

Granular 'B' compacted to 98% s.p.d. Depth from approved subgrade to bottom of granular 'A' (250mm)

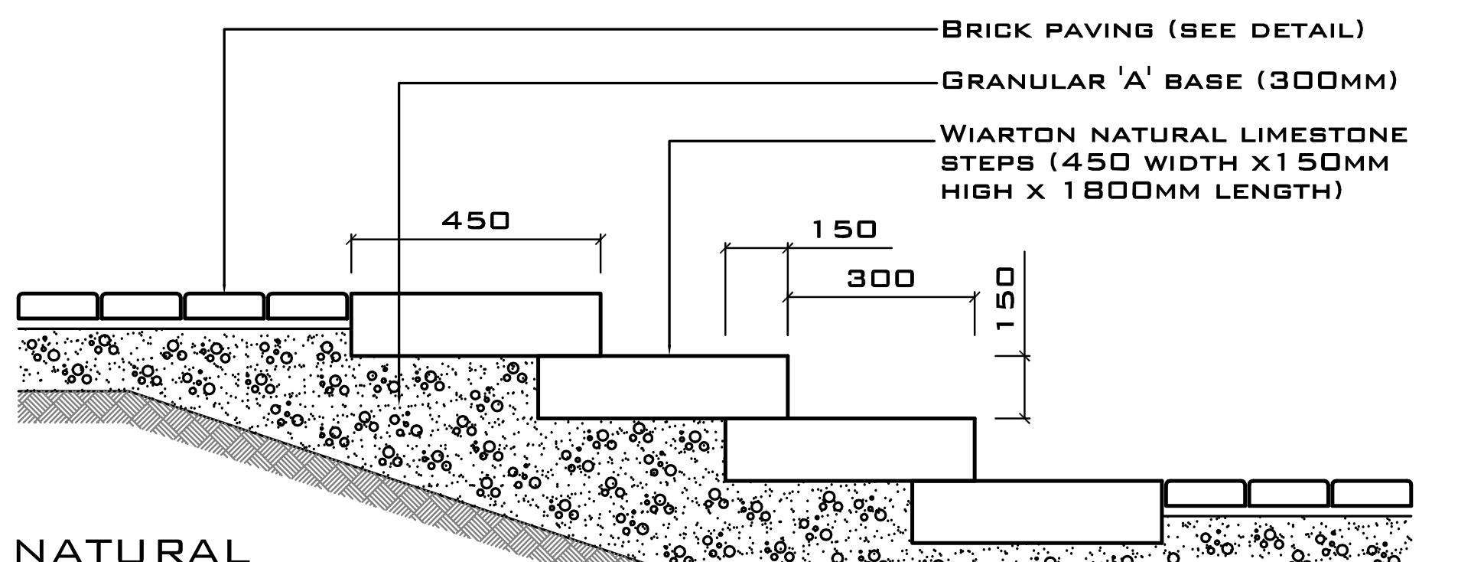
Limestone screenings levelling course

Granular 'A' compacted to 98% s.p.d.

100mm concrete base to be 25MPa at 28 days w/ 6-8% air entrainment and 150x150mm grid of wire mesh raised to mid-section of concrete (control joints @ 1800mm o.c., expansion joints @ 5400mm o.c.) (or as specified)

Compacted subgrade

NATURAL STONE STEPS X-SECTION N.T.S.

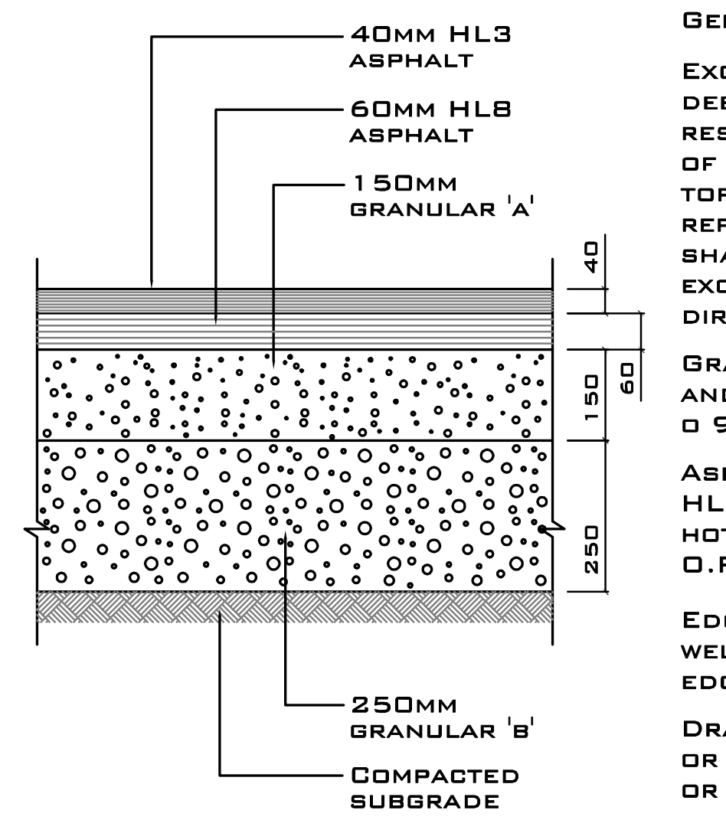


Brick paving (see detail)

Granular 'A' base (300mm)

Wiarton natural limestone steps (450 width x150mm high x 1800mm length)

VEHICULAR ASPHALT X-SECTION N.T.S.



40mm HL3 asphalt

60mm HL8 asphalt

150mm granular 'A'

250mm granular 'B'

Compacted subgrade

General notes:

Excavation: excavate to 500mm (min) depth or deeper as required. Contractor shall be responsible for the removal and replacement of any unsuitable subgrade material such as topsoil. All soft spots and/or organic matter replaced with clean subsoil fill. Subgrade shall be consolidated to a 98% s.p.d. Remove excavated material off site unless otherwise directed.

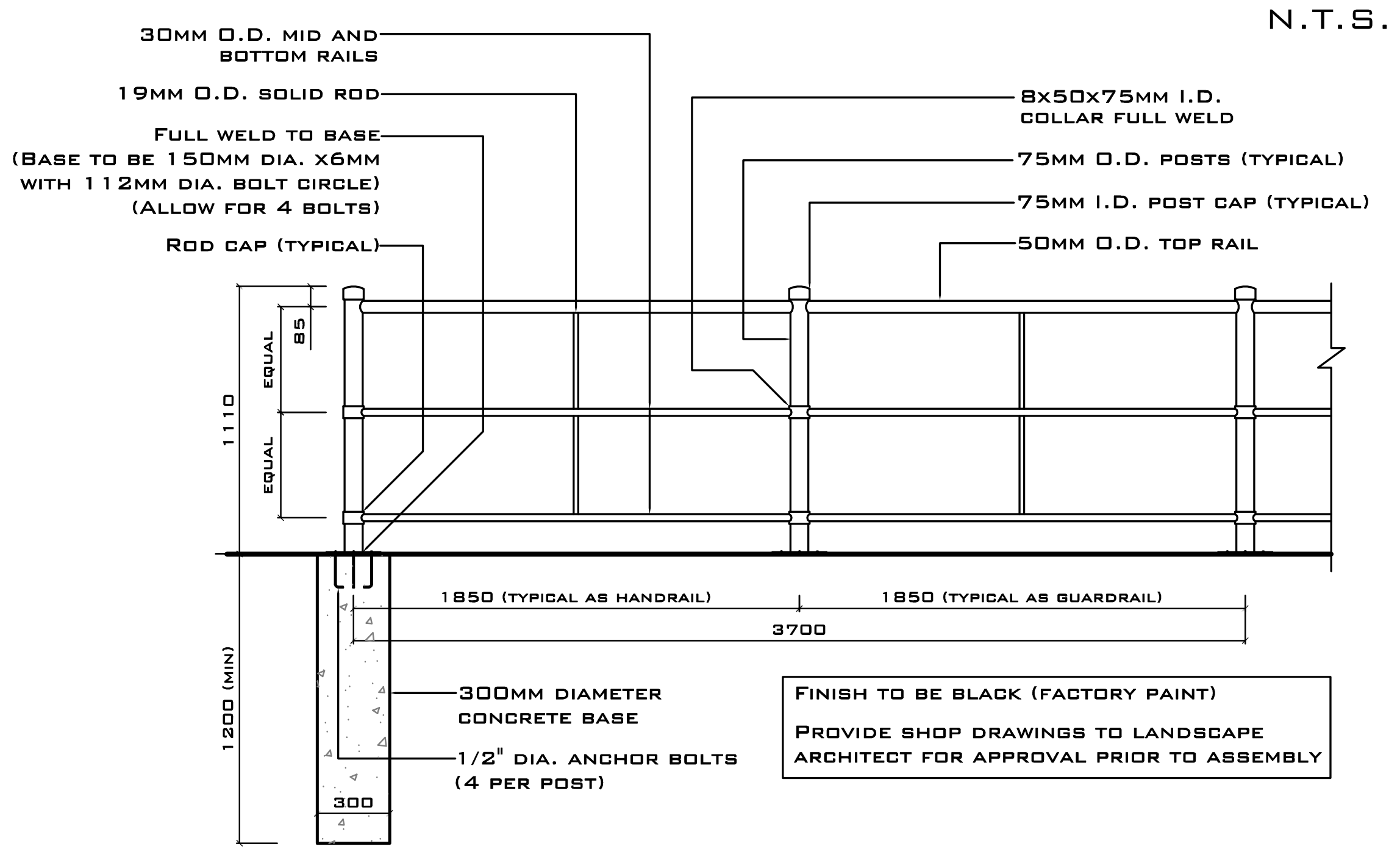
Granular base: 250mm layer of granular 'B' and 150mm layer of granular 'A' compacted o 98% s.p.d. (minimum)

Asphalt: 60mm layer (after compaction) of HL8 and 40mm (after compaction) of hot mix HL3 in accordance with O.P.S.S. standards

Edge treatment: asphalt edge to be 45 degree well tamped to form uniformly, smooth, clean edges without laterial deviations.

Drainage: slope to be 2% (minimum) on crowned or cross sloped paths as directed on site or as shown in drawings.

METAL HANDRAIL X-SECTION N.T.S.



30mm O.D. mid and bottom rails

19mm O.D. solid rod

Full weld to base (Base to be 150mm dia. x6mm with 112mm dia. bolt circle) (Allow for 4 bolts)

Rod cap (typical)

8x50x75mm I.D. collar full weld

75mm O.D. posts (typical)

75mm I.D. post cap (typical)

50mm O.D. top rail

300mm diameter concrete base

1/2" dia. anchor bolts (4 per post)

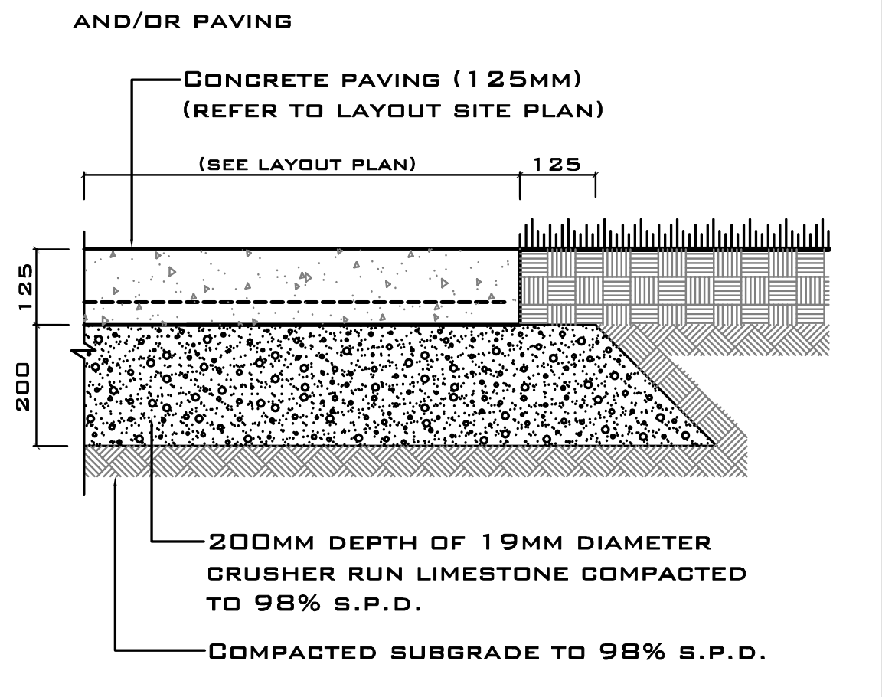
Finish to be black (factory paint)

Provide shop drawings to landscape architect for approval prior to assembly

POURED IN PLACE CONCRETE WALKWAY X-SECTION N.T.S.

General notes:

Concrete paving: 300mpa, broom finish. All control joints @ 1500mm o.c., sawcut or tooled, expansion joints @ 6000mm o.c., and abutting other concrete structures and/or paving

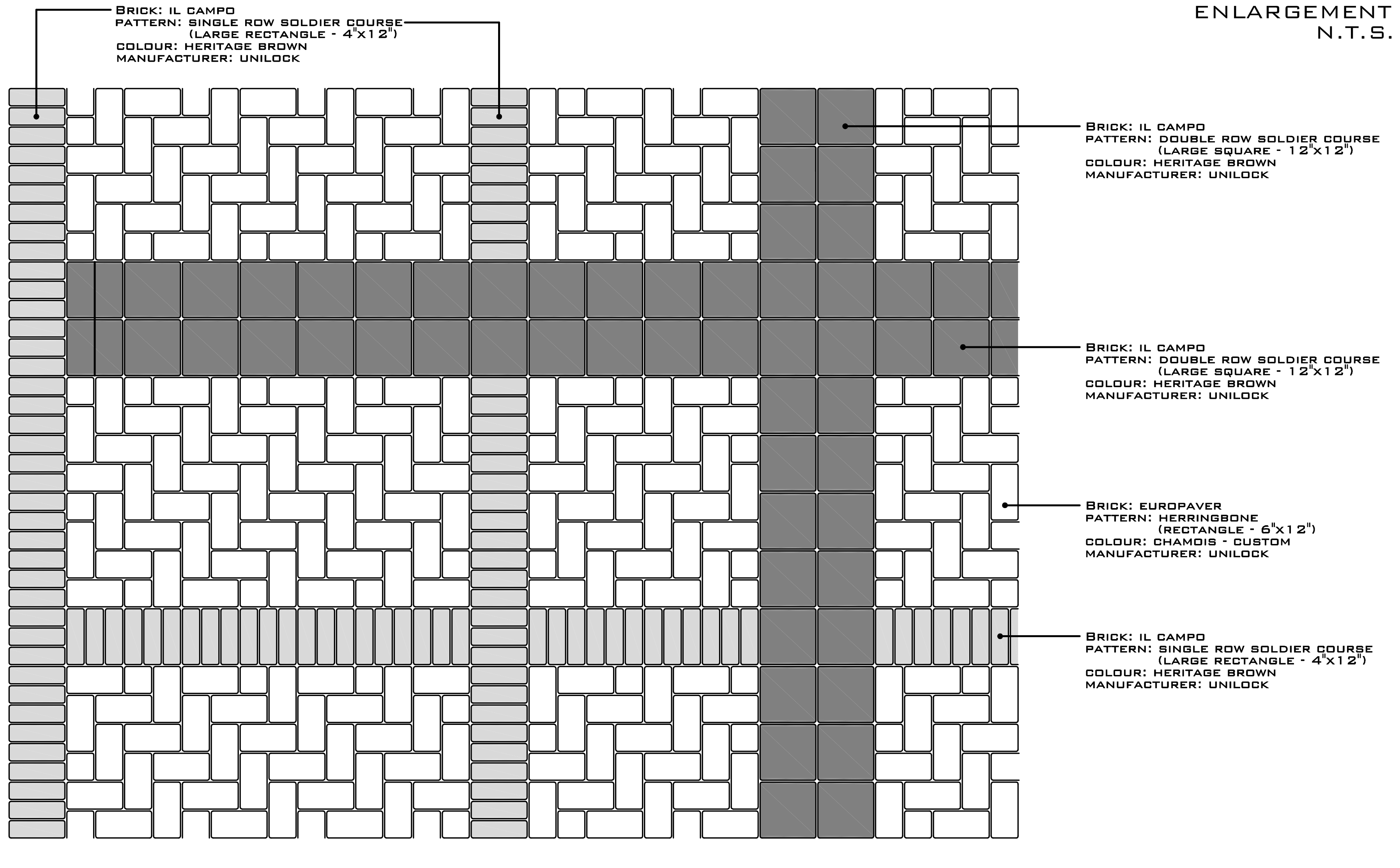


Concrete paving (125mm) (refer to layout site plan)

200mm depth of 19mm diameter crusher run limestone compacted to 98% s.p.d.

Compacted subgrade to 98% s.p.d.

BRICK PAVING PATTERN ENLARGEMENT N.T.S.



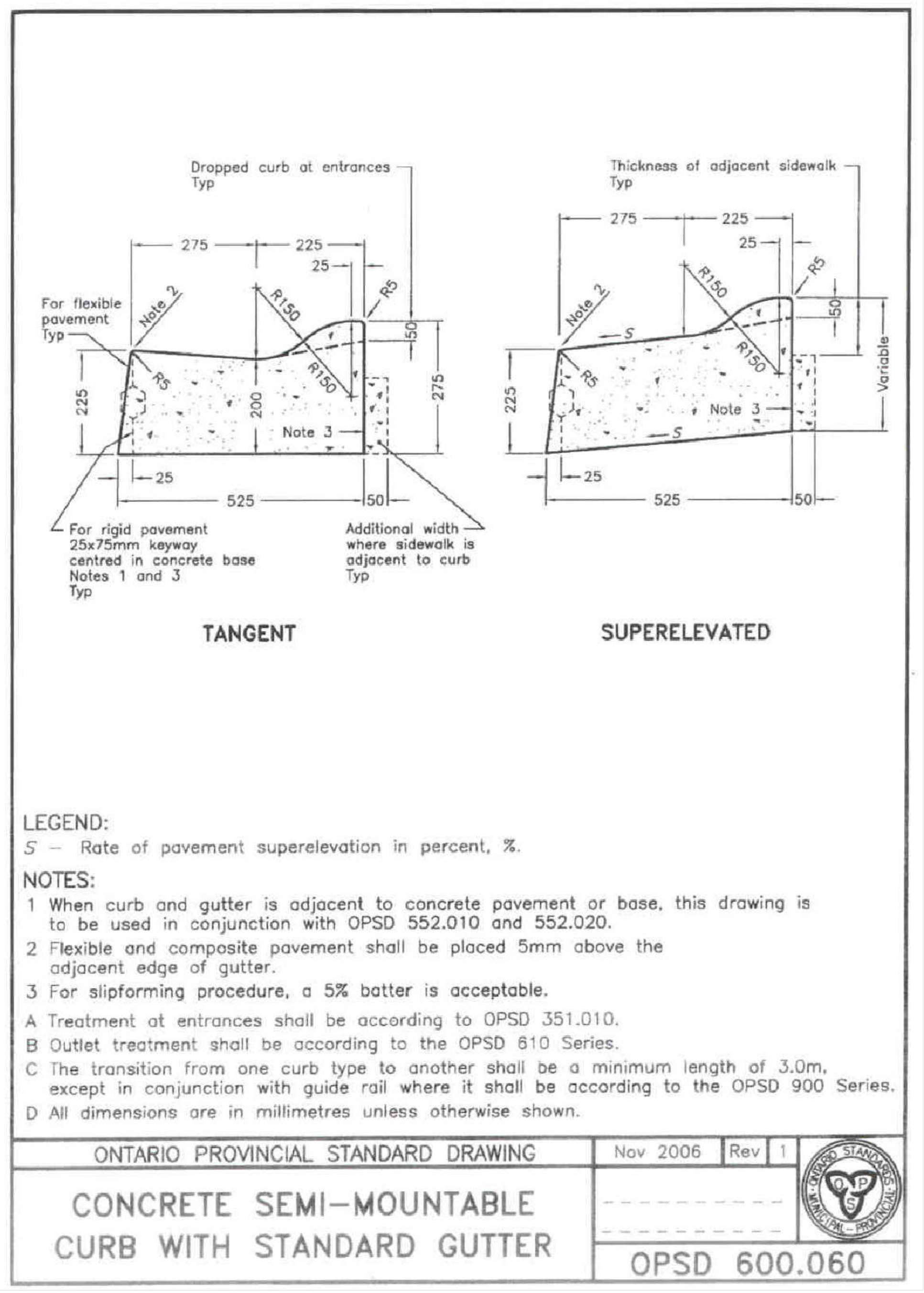
Brick: il campo
pattern: single row soldier course (large rectangle - 4"x12")
colour: heritage brown
manufacturer: unilock

Brick: il campo
pattern: double row soldier course (large square - 12"x12")
colour: heritage brown
manufacturer: unilock

Brick: il campo
pattern: double row soldier course (large square - 12"x12")
colour: heritage brown
manufacturer: unilock

Brick: europaver
pattern: herringbone (rectangle - 6"x12")
colour: chamois - custom
manufacturer: unilock

Brick: il campo
pattern: single row soldier course (large rectangle - 4"x12")
colour: heritage brown
manufacturer: unilock


Dropped curb at entrances Typ
Thickness of adjacent sidewalk Typ
275
225
25
R5
R150
Note 2
50
275
225
200
Note 3
25
525
50
S
Variable
For flexible pavement Typ
For rigid pavement 25x75mm keyway centred in concrete base Notes 1 and 3 Typ
Additional width where sidewalk is adjacent to curb Typ

TANGENT

SUPERELEVATED

LEGEND:
S – Rate of pavement superelevation in percent, %.

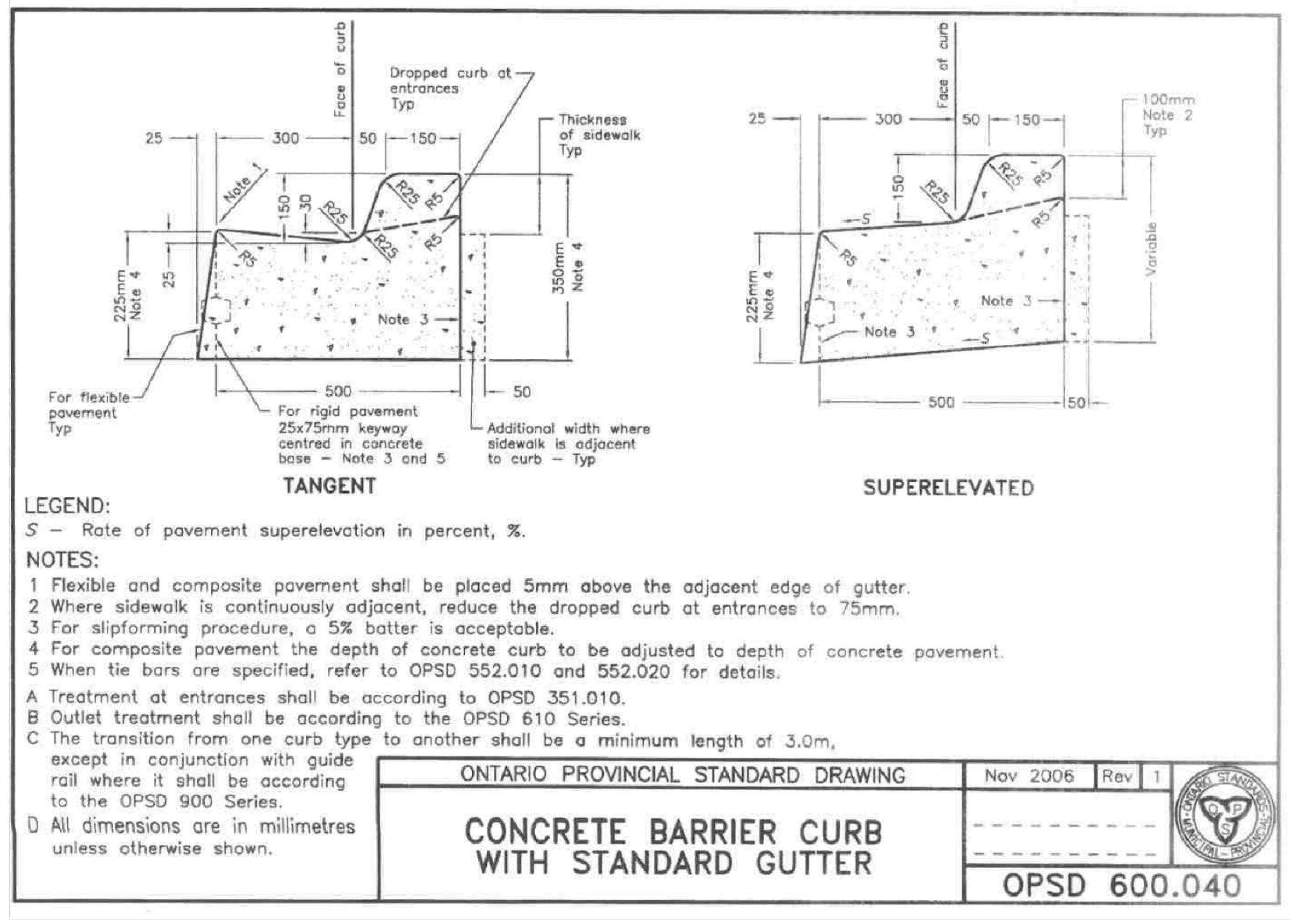
NOTES:

1 When curb and gutter is adjacent to concrete pavement or base, this drawing is to be used in conjunction with OPSD 552.010 and 552.020.
2 Flexible and composite pavement shall be placed 5mm above the adjacent edge of gutter.
3 For slipforming procedure, a 5% batter is acceptable.
A Treatment at entrances shall be according to OPSD 351.010.
B Outlet treatment shall be according to the OPSD 610 Series.
C The transition from one curb type to another shall be a minimum length of 3.0m, except in conjunction with guide rail where it shall be according to the OPSD 900 Series.
D All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING | Nov 2006 | Rev 1

CONCRETE SEMI–MOUNTABLE CURB WITH STANDARD GUTTER

OPSD 600.060


Face of curb
Dropped curb at entrances Typ
Thickness of sidewalk Typ
25
300
50
150
Note 1
150
30
R25
R5
225mm Note 4
25
350mm Note 4
Note 3
500
50
100mm Note 2 Typ
S
Variable
For flexible pavement Typ
For rigid pavement 25x75mm keyway centred in concrete base – Note 3 and 5
Additional width where sidewalk is adjacent to curb – Typ

TANGENT

SUPERELEVATED

LEGEND:
S – Rate of pavement superelevation in percent, %.

NOTES:

1 Flexible and composite pavement shall be placed 5mm above the adjacent edge of gutter.
2 Where sidewalk is continuously adjacent, reduce the dropped curb at entrances to 75mm.
3 For slipforming procedure, a 5% batter is acceptable.
4 For composite pavement the depth of concrete curb to be adjusted to depth of concrete pavement.
5 When tie bars are specified, refer to OPSD 552.010 and 552.020 for details.
A Treatment at entrances shall be according to OPSD 351.010.
B Outlet treatment shall be according to the OPSD 610 Series.
C The transition from one curb type to another shall be a minimum length of 3.0m, except in conjunction with guide rail where it shall be according to the OPSD 900 Series.
D All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING | Nov 2006 | Rev 1

CONCRETE BARRIER CURB WITH STANDARD GUTTER

OPSD 600.040

BRICK PAVER LEGEND:

Brick paver type 'a':
Brick: il campo
pattern:
double row soldier course
(large square - 12"x12")
colour: heritage brown
manufacturer: unilock

Brick paver type 'b':
Brick: il campo
pattern:
single row soldier course
(large rectangle - 4"x12")
colour: heritage brown
manufacturer: unilock

Brick paver type 'c':
Brick: europaver
pattern: herringbone
(rectangle - 6"x12")
colour: chamois - custom
manufacturer: unilock

PLT22/12/10

revisions:

date	no.	item	by

ONTARIO ASSOCIATION OF LANDSCAPE ARCHITECTS
DANIEL J. O'BRIEN
OALA
MEMBER

LANDSCAPE ARCHITECTS
LANDSCAPE DESIGN, CONSULTATION
& PROJECT MANAGEMENT

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PORT PERRY, ONTARIO
L9L 1B7

TEL: 905-985-4466
WEB : www.obrienassociates.ca

project:

SCUGOG MEMORIAL
LIBRARY EXPANSION

PORT PERRY, ONTARIO

drawing:

LANDSCAPE
CONSTRUCTION DETAILS

Date: Nov 2010	Project no: 2009-28
Designed: dob	
Drawn: rpr	
Checked: dob	Drawing no: L3 of 3
Scale: as shown	

PLANT LIST

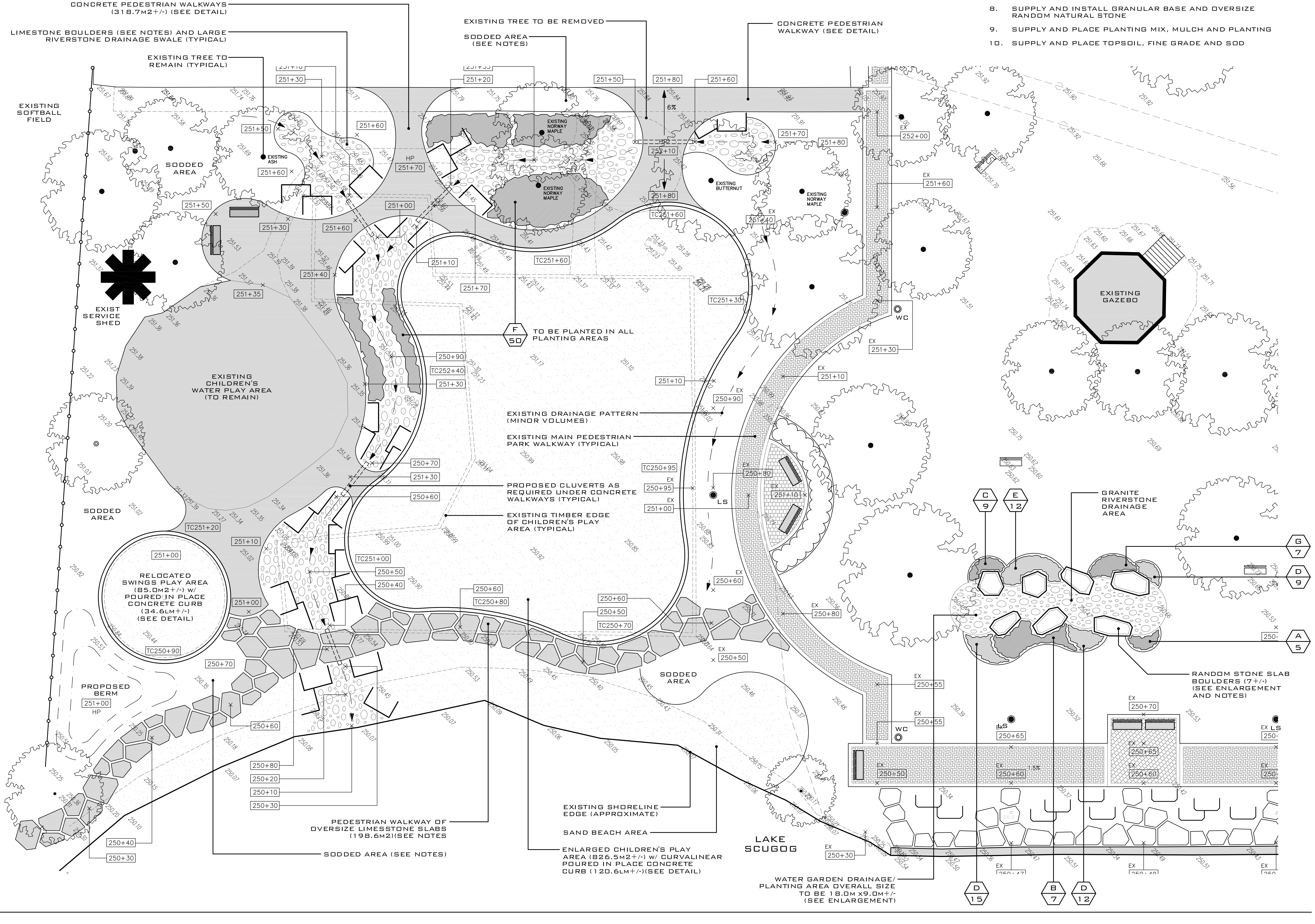
KEY	BOTANICAL NAME	COMMON NAME	NUM	SIZE	COND	REMARKS
A	ASTER NOVAE-ANGLIAE	NEW ENGLAND ASTER	5	2 YR CONTAINER GROWN		
B	ECHINACEA 'PURPUREA'	PURPLE CONEFLOWER	7	2 YR CONTAINER GROWN		
C	MONARDA FISTULOSA	WILD BERGAMONT	9	2 YR CONTAINER GROWN		
D	IRIS SIBERICA	SIBERIAN IRIS	36	2 YR CONTAINER GROWN		
E	LIATRIS SPICATA	GAYFEATHER	12	2 YR CONTAINER GROWN		
F	DESSCHAMPSIA	TUFTED HAIR GRASS	50	POTTED		
G	SPARTINA PECTINATA 'AUREO-MARGINATA'	GOLDEN-EDGED CORD GRASS	7	POTTED		

SCOPE OF WORK (WATER GARDEN DRAINAGE AREA):

1. EXCAVATE AREA OF PROPOSED GARDEN TO A DEPTH OF 300MM - DO NOT DISTURB EXISTING GRANULAR BED AND PIPING NEARBY
2. SUPPLY AND PLACE SEVEN (7) WEATHERED CUBICAL LIMESTONE BOULDERS (DIMENSIONS AS SHOWN PER ENLARGEMENT) AND EMBED IN SUBGRADE 100MM DEPTH (MIN) WITH 300MM EXPOSED
3. SUPPLY AND PLACE 200MM DEPTH OF CLEAR CRUSHED STONE UNDER GRANITE RIVERSTONE AREA. SUPPLY AND PLACE FILTER FABRIC OVER CRUSHED STONE. SUPPLY AND PLACE GRANITE RIVERSTONE (SIZE 50-150MM DIAMETER) AND EMBED 100MM (MIN) INTO SUBGRADE (ON CRUSHED STONE)
4. SUPPLY AND PLACE PLANTING MIX, MULCH AND PLANTING

SCOPE OF WORK (CHILDREN'S PLAY AREA):

1. REMOVE AFFECTED PLAY EQUIPMENT AND RE-INSTALL
2. REMOVE EXISTING TIMBER EDGING INTACT IN INDIVIDUAL SECTIONS AND DELIVER TO PARKS OPERATION YARD UNDER DIRECTION OF PARKS MANAGER
3. SALVAGE AFFECTED FIBAR WOOD CHIP BASE FOR RE-USE ON SITE
4. REMOVE EXISTING CONCRETE AND BRICK WALKWAYS AND DISPOSE OF OFF SITE
5. REGRADE AND EXCAVATE FOR NEW STORMWATER CHANNEL
6. INSTALL PVC DRAIN PIPES AND BEDDING, ROCKERY STONE, GRANITE RIVERSTONE, GRANULARS, AND FILTER FABRIC
7. POUR IN PLACE NEW CONCRETE CURBING AND CONCRETE WALKS
8. SUPPLY AND INSTALL GRANULAR BASE AND OVERSIZE RANDOM NATURAL STONE
9. SUPPLY AND PLACE PLANTING MIX, MULCH AND PLANTING
10. SUPPLY AND PLACE TOPSOIL, FINE GRADE AND SOD


CONCRETE PEDESTRIAN WALKWAYS (318.7M2+/-) (SEE DETAIL)
LIMESTONE BOULDERS (SEE NOTES) AND LARGE RIVERSTONE DRAINAGE SWALE (TYPICAL)
EXISTING TREE TO REMAIN (TYPICAL)
EXISTING TREE TO BE REMOVED
SODDED AREA (SEE NOTES)
CONCRETE PEDESTRIAN WALKWAY (SEE DETAIL)
EXISTING SOFTBALL FIELD
SODDED AREA
EXISTING ASH
EXISTING NORWAY MAPLE
EXISTING NORWAY MAPLE
EXISTING BUTTERNUT
EXISTING NORWAY MAPLE
6%
HP
EXIST SERVICE SHED
EXISTING CHILDREN'S WATER PLAY AREA (TO REMAIN)
F
50
TO BE PLANTED IN ALL PLANTING AREAS
EXISTING GAZEBO
WC
WC
LS
EXISTING DRAINAGE PATTERN (MINOR VOLUMES)
EXISTING MAIN PEDESTRIAN PARK WALKWAY (TYPICAL)
PROPOSED CLUVERTS AS REQUIRED UNDER CONCRETE WALKWAYS (TYPICAL)
EXISTING TIMBER EDGE OF CHILDREN'S PLAY AREA (TYPICAL)
SODDED AREA
RELOCATED SWINGS PLAY AREA (85.0M2+/-) w/ POURED IN PLACE CONCRETE CURB (34.6LM+/-) (SEE DETAIL)
PROPOSED BERM
HP
SODDED AREA
GRANITE RIVERSTONE DRAINAGE AREA
C 9
E 12
G 7
D 9
A 5
RANDOM STONE SLAB BOULDERS (7+/-) (SEE ENLARGEMENT AND NOTES)
PEDESTRIAN WALKWAY OF OVERSIZE LIMESSTONE SLABS (198.6M2)(SEE NOTES
SODDED AREA (SEE NOTES)
EXISTING SHORELINE EDGE (APPROXIMATE)
SAND BEACH AREA
ENLARGED CHILDREN'S PLAY AREA (826.5M2+/-) w/ CURVALINEAR POURED IN PLACE CONCRETE CURB (120.6LM+/-)(SEE DETAIL)
LAKE SCUGOG
WATER GARDEN DRAINAGE/ PLANTING AREA OVERALL SIZE TO BE 18.0M x9.0M+/- (SEE ENLARGEMENT)
D 15
B 7
D 12
251+00
251+10
251+20
251+30
251+35
251+40
251+50
251+60
251+70
251+80
252+00
250+30
250+40
250+50
250+55
250+60
250+65
250+70
250+80
250+90
250+95
TC251+20
TC251+00
TC251+60
TC251+30
TC252+40
TC250+95
TC250+80
TC250+70
TC250+90
EX
1.5%

PLANTING NOTES:

All areas noted as sodded to have #1 nursery grown sod w/ 200mm depth (minimum) topsoil (typical)

All planted areas to have 300mm depth (minimum) of planting mix, and 100mm depth (minimum) of black composted bark mulch by Gro-Bark Limited (note: mulch level to be 100mm above sod level)

ROCKERY NOTES:

Children's play area:

Supply and place 125+/- tons (or 36+/- pieces of stone) of slab type weathered limestone in a typical size of 150cm length x 60cm height x 80Ccm width)

Water garden drainage area:

Supply and place 7 pieces of weathered cubical limestone boulders (sizes per enlargement)

Provide for a broad range of pieces in order to construct a random natural effect

Place 200mm (minimum) of clear crushed stone behind and under all stone work

Place a continuous & overlapping single layer of Terrafix 270R filter fabric under and behind all stones before placement of clear stone

OVERSIZE LIMESTONE NOTES:

Provide range of random natural stone (to match existing shoreline walk) as supplied by Parnell Quarry, Buckhorn, Ontario (tel 705-292-6587)

sizes to range from small (1.0x1.0m), medium (1.0x2.0m) and large (2.0x2.0m)

PLT14/09/10

REVISIONS:

DATE	NO.	ITEM	BY

LANDSCAPE ARCHITECTS
LANDSCAPE DESIGN, CONSULTATION
& PROJECT MANAGEMENT

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PROJECT:

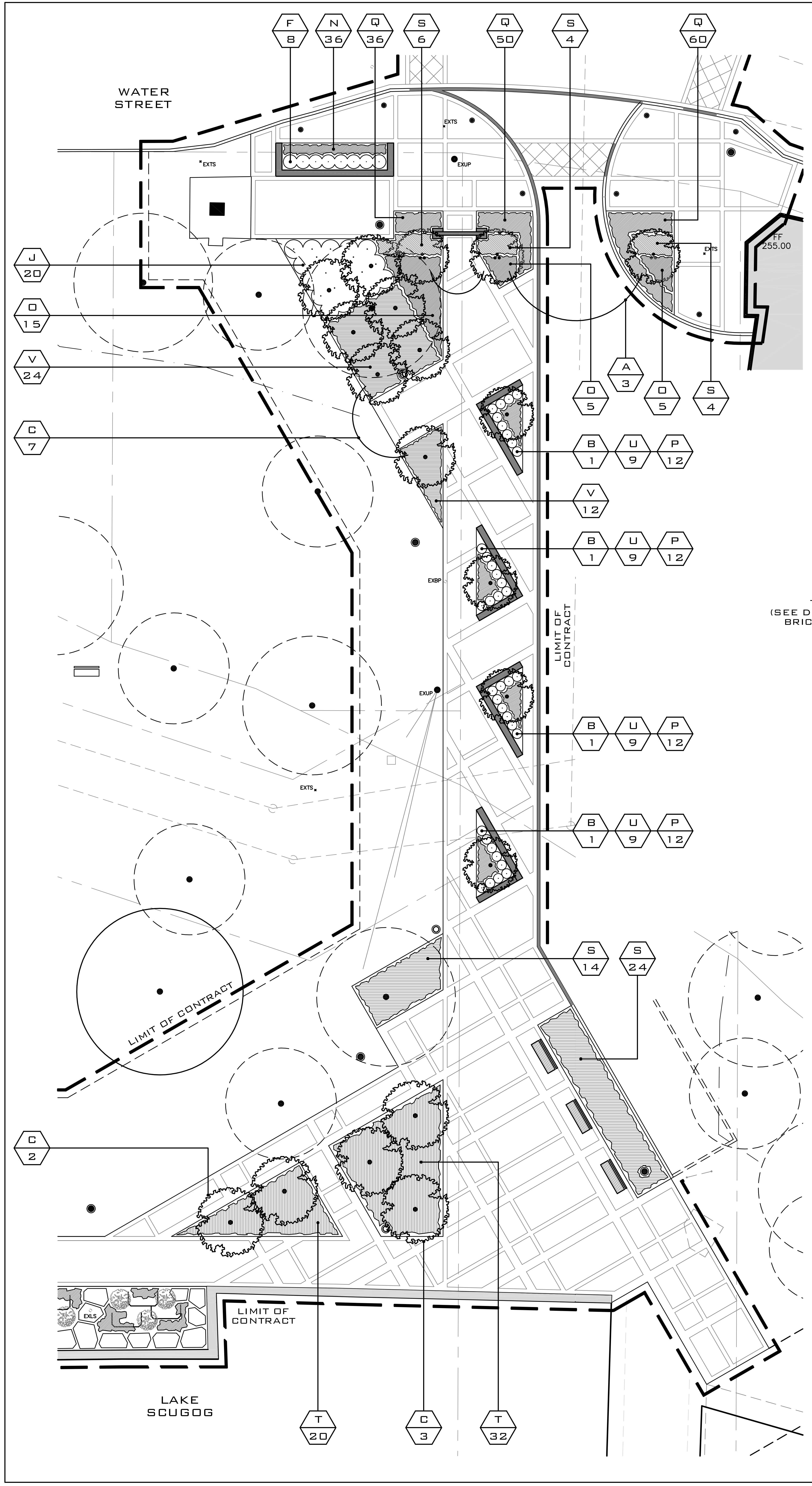
PORT PERRY
WATERFRONT

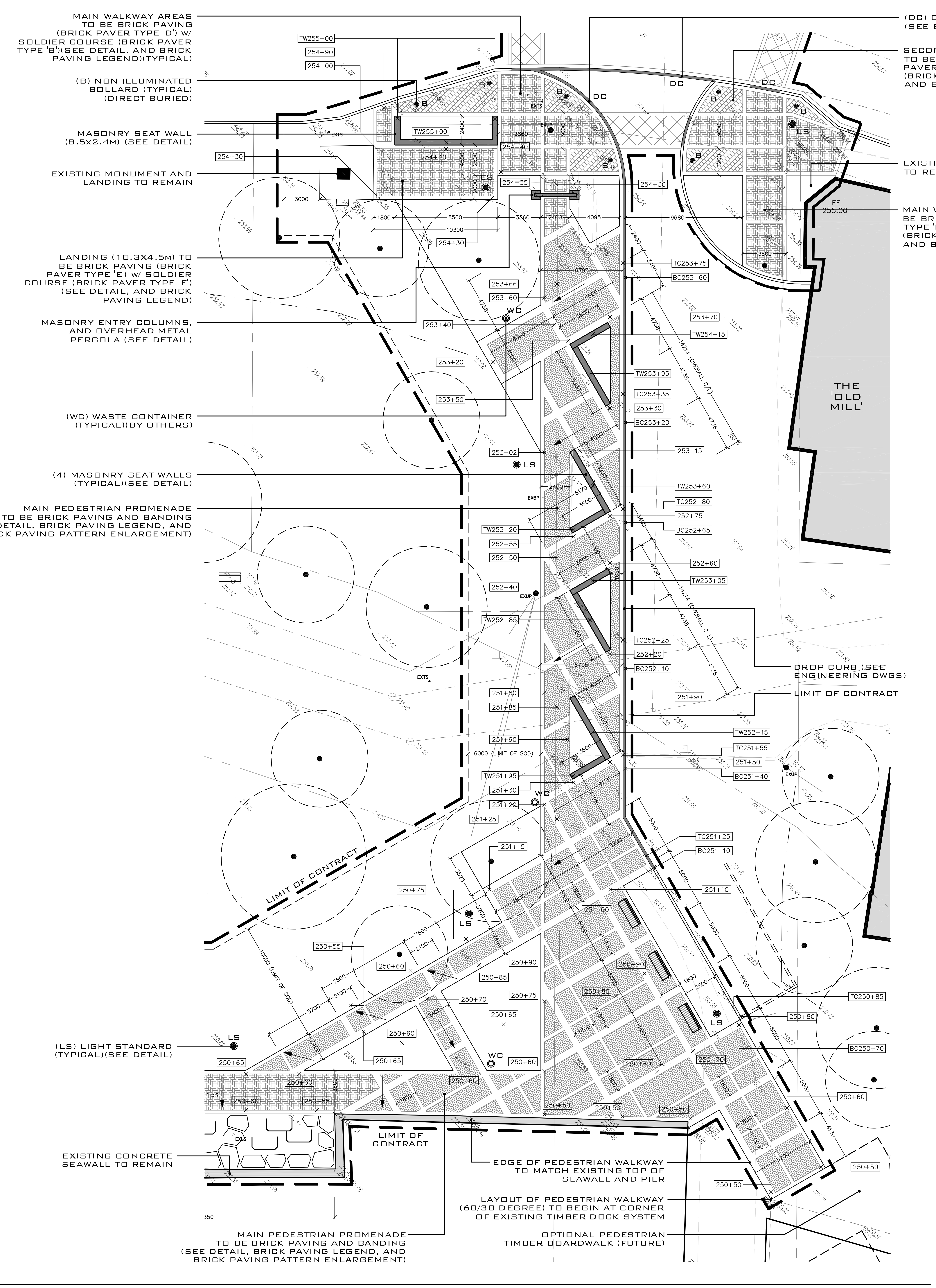
PORT PERRY, ONTARIO

DRAWING:

CHILDREN'S PLAY AREA AND
WATER GARDEN LAYOUT

Date: Sept 2010	Project no: 2008-39
Designed: DOB	
Drawn: RPR	
Checked: DOB	Drawing no: L1 of 2
Scale: 1:125	




MAIN WALKWAY AREAS TO BE BRICK PAVING (BRICK PAVER TYPE 'D') w/ SOLDIER COURSE (BRICK PAVER TYPE 'B')(SEE DETAIL, AND BRICK PAVING LEGEND)(TYPICAL)
(B) NON-ILLUMINATED BOLLARD (TYPICAL) (DIRECT BURIED)
MASONRY SEAT WALL (8.5x2.4M) (SEE DETAIL)
EXISTING MONUMENT AND LANDING TO REMAIN
LANDING (10.3X4.5M) TO BE BRICK PAVING (BRICK PAVER TYPE 'E') w/ SOLDIER COURSE (BRICK PAVER TYPE 'E') (SEE DETAIL, AND BRICK PAVING LEGEND)
MASONRY ENTRY COLUMNS, AND OVERHEAD METAL PERGOLA (SEE DETAIL)
(WC) WASTE CONTAINER (TYPICAL)(BY OTHERS)
(4) MASONRY SEAT WALLS (TYPICAL)(SEE DETAIL)
MAIN PEDESTRIAN PROMENADE TO BE BRICK PAVING AND BANDING (SEE DETAIL, BRICK PAVING LEGEND, AND BRICK PAVING PATTERN ENLARGEMENT)
(LS) LIGHT STANDARD (TYPICAL)(SEE DETAIL)
EXISTING CONCRETE SEAWALL TO REMAIN
MAIN PEDESTRIAN PROMENADE TO BE BRICK PAVING AND BANDING (SEE DETAIL, BRICK PAVING LEGEND, AND BRICK PAVING PATTERN ENLARGEMENT)
OPTIONAL PEDESTRIAN TIMBER BOARDWALK (FUTURE)
LAYOUT OF PEDESTRIAN WALKWAY (60/30 DEGREE) TO BEGIN AT CORNER OF EXISTING TIMBER DOCK SYSTEM
EDGE OF PEDESTRIAN WALKWAY TO MATCH EXISTING TOP OF SEAWALL AND PIER
LIMIT OF CONTRACT
DROP CURB (SEE ENGINEERING DWGS)
(DC) CONCRETE DROP CURB (TYPICAL) (SEE ENGINEERING DWGS.)
SECONDARY INFILL AREAS TO BE BRICK PAVING (BRICK PAVER TYPE 'C') w/ SOLDIER COURSE (BRICK PAVER TYPE 'B')(SEE DETAIL, AND BRICK PAVING LEGEND)(TYPICAL)
EXISTING CONCRETE ENTRY TO REMAIN (TYPICAL)
MAIN WALKWAY AREAS TO BE BRICK PAVING (BRICK PAVER TYPE 'D') w/ SOLDIER COURSE (BRICK PAVER TYPE 'B')(SEE DETAIL, AND BRICK PAVING LEGEND)(TYPICAL)
THE 'OLD MILL'
FF 255.00
LIMIT OF CONTRACT
LIMIT OF CONTRACT
DC
DC
DC
LS
WC
B
TW255+00
254+90
254+00
254+30
254+40
254+35
254+30
254+30
TC253+75
BC253+60
253+66
253+60
253+40
253+70
TW254+15
253+20
TW253+95
TC253+35
253+30
253+50
BC253+20
253+15
253+02
TW253+60
TC252+80
252+75
BC252+65
TW253+20
252+55
252+50
252+60
TW253+05
252+40
TW252+85
TC252+25
252+20
BC252+10
251+80
251+85
251+90
TW252+15
TC251+55
251+60
251+50
BC251+40
TW251+95
251+30
251+20
251+25
TC251+25
BC251+10
251+15
251+10
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250+60
250+90
250+85
250+90
250+75
250+80
250+70
250+65
250+60
250+65
250+60
250+60
250+65
250+60
250+55
250+60
250+50
250+50
250+50
250+70
250+80
TC250+85
BC250+70
250+60
250+50
250+50
6000 (LIMIT OF SOD)
10000 (LIMIT OF SOD)
14214 (OVERALL C/L)
4738

PLANTING NOTES:

All areas noted as sodded to have #1 nursery grown sod w/ 200mm depth (minimum) topsoil (typical)

All planted areas to have 300mm depth (minimum) of planting mix, and 100mm depth (minimum) of black composted bark mulch by Gro-Bark Limited
(note: mulch level to be 100mm above sod level)

PLT27/08/09

REVISIONS:

DATE	NO.	ITEM	BY

ONTARIO ASSOCIATION OF LANDSCAPE ARCHITECTS
DANIEL J. O'BRIEN
OALA
MEMBER

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PROJECT:

PORT PERRY
WATERFRONT

PORT PERRY, ONTARIO

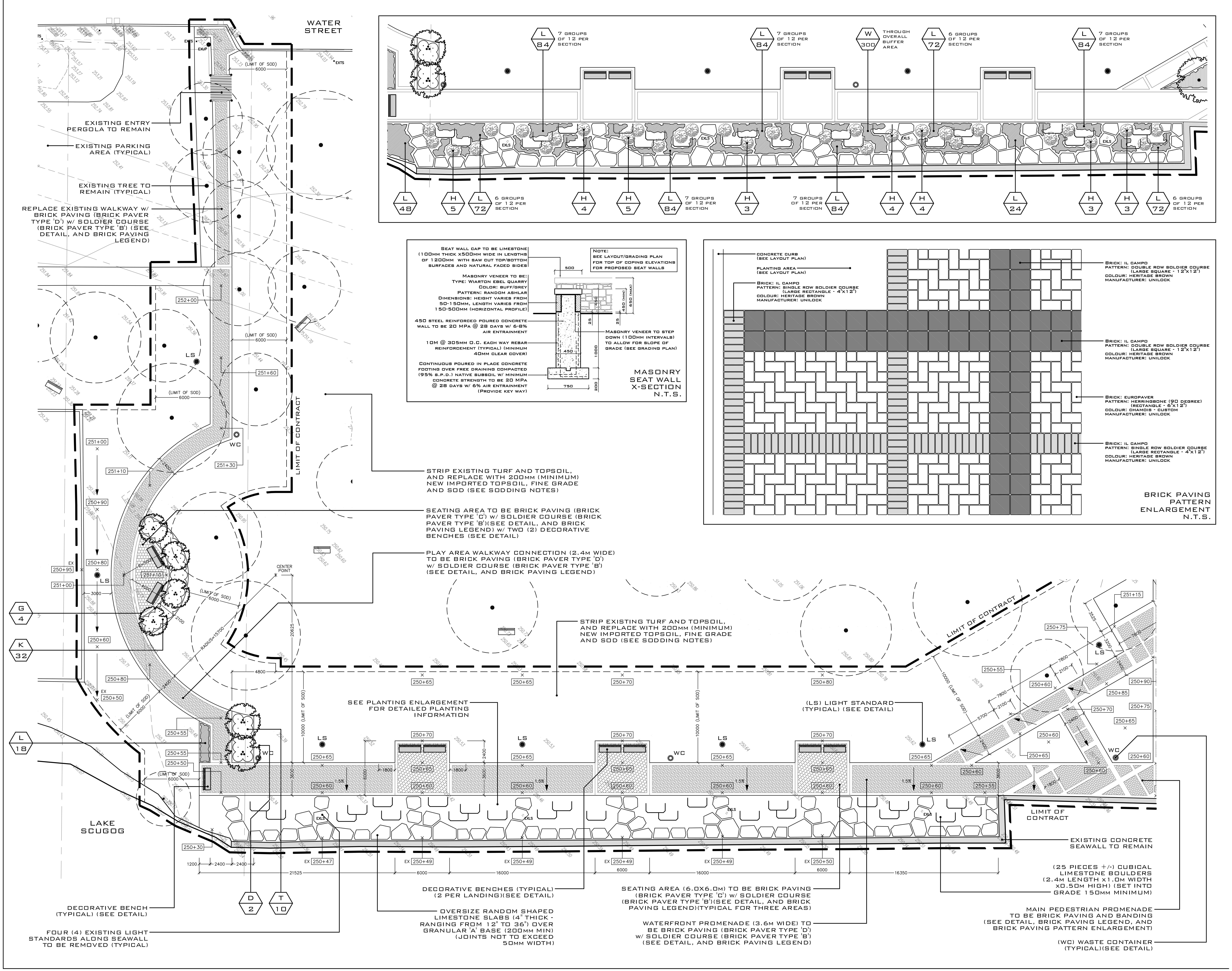
DRAWING:

QUEEN STREET LAYOUT/
GRADING & PLANTING PLAN

Date: Aug 2009
Designed: dob
Drawn: rpr
Checked: dob
Scale: 1:150

Project no: 2008-39

Drawing no: L1 of 4



EXISTING ENTRY PERGOLA TO REMAIN

EXISTING PARKING AREA (TYPICAL)

EXISTING TREE TO REMAIN (TYPICAL)

REPLACE EXISTING WALKWAY w/ BRICK PAVING (BRICK PAVER TYPE 'D') w/ SOLDIER COURSE (BRICK PAVER TYPE 'B') (SEE DETAIL, AND BRICK PAVING LEGEND)

STRIP EXISTING TURF AND TOPSOIL, AND REPLACE WITH 200MM (MINIMUM) NEW IMPORTED TOPSOIL, FINE GRADE AND SOD (SEE SODDING NOTES)

SEATING AREA TO BE BRICK PAVING (BRICK PAVER TYPE 'C') w/ SOLDIER COURSE (BRICK PAVER TYPE 'B')(SEE DETAIL, AND BRICK PAVING LEGEND) w/ TWO (2) DECORATIVE BENCHES (SEE DETAIL)

PLAY AREA WALKWAY CONNECTION (2.4M WIDE) TO BE BRICK PAVING (BRICK PAVER TYPE 'D') w/ SOLDIER COURSE (BRICK PAVER TYPE 'B') (SEE DETAIL, AND BRICK PAVING LEGEND)

STRIP EXISTING TURF AND TOPSOIL, AND REPLACE WITH 200MM (MINIMUM) NEW IMPORTED TOPSOIL, FINE GRADE AND SOD (SEE SODDING NOTES)

SEE PLANTING ENLARGEMENT FOR DETAILED PLANTING INFORMATION

(LS) LIGHT STANDARD (TYPICAL) (SEE DETAIL)

EXISTING CONCRETE SEAWALL TO REMAIN

(25 PIECES +/-) CUBICAL LIMESTONE BOULDERS (2.4M LENGTH x1.0M WIDTH x0.50M HIGH) (SET INTO GRADE 150MM MINIMUM)

MAIN PEDESTRIAN PROMENADE TO BE BRICK PAVING AND BANDING (SEE DETAIL, BRICK PAVING LEGEND, AND BRICK PAVING PATTERN ENLARGEMENT)

(WC) WASTE CONTAINER (TYPICAL)(SEE DETAIL)

DECORATIVE BENCH (TYPICAL) (SEE DETAIL)

FOUR (4) EXISTING LIGHT STANDARDS ALONG SEAWALL TO BE REMOVED (TYPICAL)

DECORATIVE BENCHES (TYPICAL) (2 PER LANDING)(SEE DETAIL)

OVERSIZE RANDOM SHAPED LIMESTONE SLABS (4" THICK - RANGING FROM 12" TO 36") OVER GRANULAR 'A' BASE (200MM MIN) (JOINTS NOT TO EXCEED 50MM WIDTH)

SEATING AREA (6.0X6.0M) TO BE BRICK PAVING (BRICK PAVER TYPE 'C') w/ SOLDIER COURSE (BRICK PAVER TYPE 'B')(SEE DETAIL, AND BRICK PAVING LEGEND)(TYPICAL FOR THREE AREAS)

WATERFRONT PROMENADE (3.6M WIDE) TO BE BRICK PAVING (BRICK PAVER TYPE 'D') w/ SOLDIER COURSE (BRICK PAVER TYPE 'B') (SEE DETAIL, AND BRICK PAVING LEGEND)

MASONRY SEAT WALL X-SECTION
N.T.S.

Seat wall cap to be limestone (100mm thick x500mm wide in lengths of 1200mm with saw cut top/bottom surfaces and natural faced sides

Masonry veneer to be:
Type: Wiarton ebel quarry
Color: buff/grey
Pattern: random ashlar
Dimensions: height varies from 50-150mm, length varies from 150-500mm (horizontal profile)

450 steel reinforced poured concrete wall to be 20 MPa @ 28 days w/ 6-8% air entrainment

10M @ 305mm O.C. each way rebar reinforcement (typical) (minimum 40mm clear cover)

Continuous poured in place concrete footing over free draining compacted (95% s.p.d.) native subsoil w/ minimum concrete strength to be 20 MPa @ 28 days w/ 6% air entrainment (Provide key way)

Note:
see layout/grading plan for top of coping elevations for proposed seat walls

Masonry veneer to step down (100mm intervals) to allow for slope of grade (see grading plan)

BRICK PAVING PATTERN ENLARGEMENT
N.T.S.

concrete curb
(see layout plan)

planting area
(see layout plan)

Brick: il campo
pattern: single row soldier course (large rectangle - 4"x12")
colour: heritage brown
manufacturer: unilock

Brick: il campo
pattern: double row soldier course (large square - 12"x12")
colour: heritage brown
manufacturer: unilock

Brick: il campo
pattern: double row soldier course (large square - 12"x12")
colour: heritage brown
manufacturer: unilock

Brick: europaver
pattern: herringbone (90 degree) (rectangle - 6"x12")
colour: chamois - custom
manufacturer: unilock

Brick: il campo
pattern: single row soldier course (large rectangle - 4"x12")
colour: heritage brown
manufacturer: unilock

PLANTING NOTES:

ALL AREAS NOTED AS SODDED TO HAVE #1 NURSERY GROWN SOD w/ 200MM DEPTH (MINIMUM) TOPSOIL (TYPICAL)

ALL PLANTED AREAS TO HAVE 300MM DEPTH (MINIMUM) OF PLANTING MIX, AND 100MM DEPTH (MINIMUM) OF BLACK COMPOSTED BARK MULCH BY GRO-BARK LIMITED (NOTE: MULCH LEVEL TO BE 100MM ABOVE SOD LEVEL)

PLT27/08/09

REVISIONS:

DATE	NO.	ITEM	BY

ONTARIO ASSOCIATION OF LANDSCAPE ARCHITECTS
DANIEL J. O'BRIEN
OALA
MEMBER

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PROJECT:

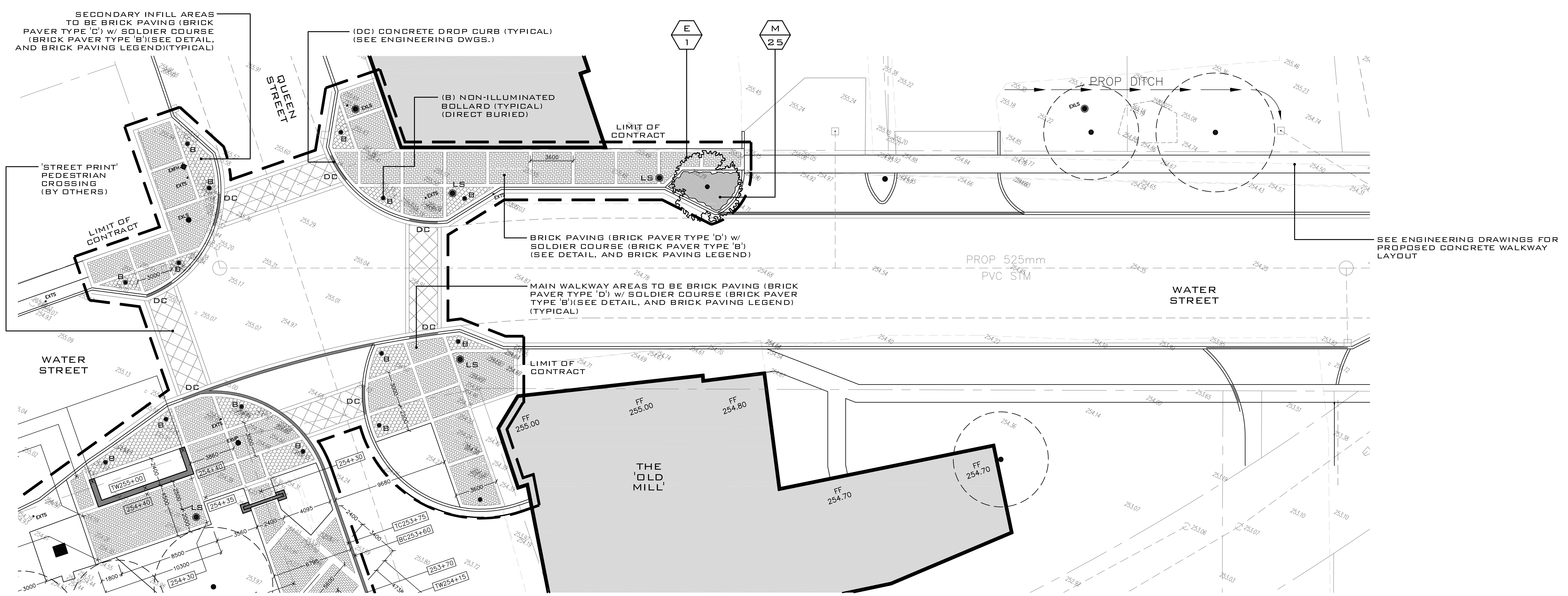
PORT PERRY
WATERFRONT

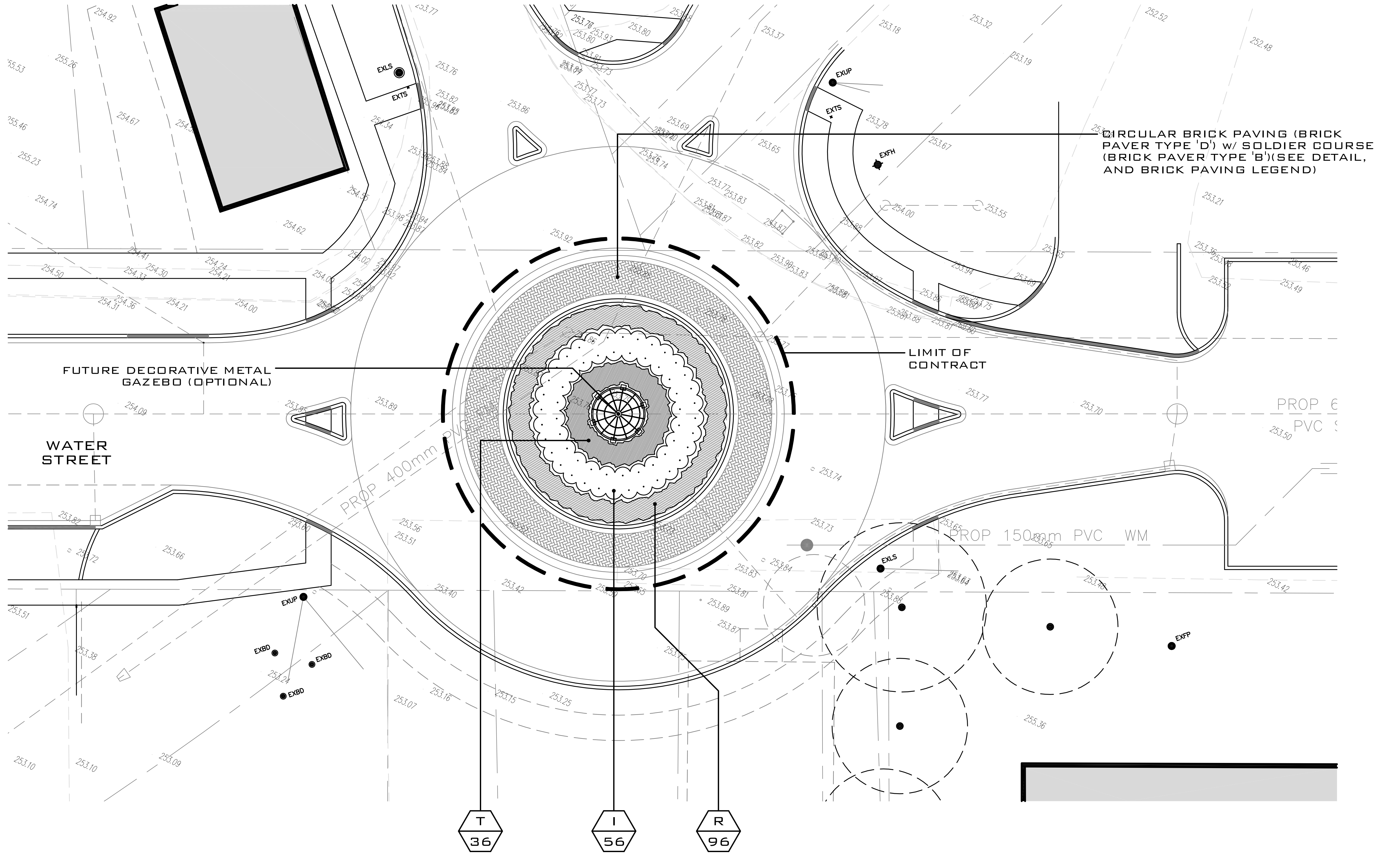
PORT PERRY, ONTARIO

DRAWING:

PALMER PARK LAYOUT,
GRADING AND PLANTING PLAN

DATE: AUG 2009
DESIGNED: DOB
DRAWN: RPR
CHECKED: DOB
SCALE: 1:150
PROJECT NO: 2008-39
DRAWING NO: L2 OF 4


SECONDARY INFILL AREAS TO BE BRICK PAVING (BRICK PAVER TYPE 'C') w/ SOLDIER COURSE (BRICK PAVER TYPE 'B')(SEE DETAIL, AND BRICK PAVING LEGEND)(TYPICAL)
(DC) CONCRETE DROP CURB (TYPICAL) (SEE ENGINEERING DWGS.)
E
1
M
25
QUEEN STREET
(B) NON-ILLUMINATED BOLLARD (TYPICAL) (DIRECT BURIED)
LIMIT OF CONTRACT
PROP DITCH
'STREET PRINT' PEDESTRIAN CROSSING (BY OTHERS)
LIMIT OF CONTRACT
BRICK PAVING (BRICK PAVER TYPE 'D') w/ SOLDIER COURSE (BRICK PAVER TYPE 'B') (SEE DETAIL, AND BRICK PAVING LEGEND)
SEE ENGINEERING DRAWINGS FOR PROPOSED CONCRETE WALKWAY LAYOUT
PROP 525mm PVC STM
WATER STREET
MAIN WALKWAY AREAS TO BE BRICK PAVING (BRICK PAVER TYPE 'D') w/ SOLDIER COURSE (BRICK PAVER TYPE 'B')(SEE DETAIL, AND BRICK PAVING LEGEND) (TYPICAL)
WATER STREET
LIMIT OF CONTRACT
DC
B
LS
3600
3000
FF 255.00
FF 255.00
FF 254.80
THE 'OLD MILL'
FF 254.70
FF 254.70
TW255+00
254+40
254+35
254+30
TC253+75
BC253+60
253+70
TW254+15


CIRCULAR BRICK PAVING (BRICK PAVER TYPE 'D') w/ SOLDIER COURSE (BRICK PAVER TYPE 'B')(SEE DETAIL, AND BRICK PAVING LEGEND)
FUTURE DECORATIVE METAL GAZEBO (OPTIONAL)
LIMIT OF CONTRACT
WATER STREET
PROP 400mm
PROP 150mm PVC WM
PROP 6 PVC
T
36
I
56
R
96

BRICK PAVER LEGEND:

BRICK PAVER TYPE 'A':
BRICK: IL CAMPO
PATTERN:
DOUBLE ROW SOLDIER COURSE
(LARGE SQUARE - 12"x12")
COLOUR: HERITAGE BROWN
MANUFACTURER: UNILOCK

BRICK PAVER TYPE 'B':
BRICK: IL CAMPO
PATTERN:
SINGLE ROW SOLDIER COURSE
(LARGE RECTANGLE - 4"x12")
COLOUR: HERITAGE BROWN
MANUFACTURER: UNILOCK

BRICK PAVER TYPE 'C':
BRICK: IL CAMPO
PATTERN:
RUNNING BOND (45 DEGREE)
(LARGE SQUARE - 12"x12")
COLOUR: HERITAGE BROWN
MANUFACTURER: UNILOCK

BRICK PAVER TYPE 'D':
BRICK: EUROPAVER
PATTERN:
HERRINGBONE (90 DEGREE)
(RECTANGLE - 6"x12")
COLOUR: CHAMOIS - CUSTOM
MANUFACTURER: UNILOCK

BRICK PAVER TYPE 'E':
BRICK: COPTHORNE
PATTERN:
HERRINGBONE (90 DEGREE)
(STANDARD - 2.5"x8")
COLOUR:
3 COLOUR BLEND W/ OLD OAK,
BURGUNDY RED, & BURNT CLAY
MANUFACTURER: UNILOCK

PLANT LIST

KEY	BOTANICAL NAME	COMMON NAME	NUM	SIZE	COND	REMARKS
A	FAGUS SYLVATICA 'RED OBELISK'	RED OBELISK BEECH	3	60MM CAL	WB	
B	MAGNOLIA SOULANGEANA	SAUCER MAGNOLIA	4	50MM CAL	WB	
C	MALUS 'SPRING SNOW'	SPRING SNOW CRABAPPLE	12	50MM CAL	WB	
D	MALUS 'RINKI'	RINKI CRABAPPLE	2	50MM CAL	WB	
E	PYRUS CALLERYANA 'CHANTICLEAR'	CHANTICLEAR PEAR	1	50MM CAL	WB	
F	BUXUS 'GREEN MOUNTAIN'	GREEN MOUNTAIN BOXWOOD	8	40cm SPR	WB	
G	PHYSOCARPUS OPULIFOLIUS 'DIABOLO'	DIABOLO NINEBARK	4	150cm HT	WB	
H	RHUS AROMATICA 'GROW-LOW'	GROW LOW SUMAC	31	50cm SPR	WB	
I	ROSA RUGOSA 'NEARLY WILD'	NEARLY WILD ROSE	56	50cm SPR	WB	
J	SALIX INTEGRA 'HAKURO-NISHIKI'	DAPPLED WILLOW	20	100cm HT	WB	
K	SPIRAEA BUMALDA 'ANTHONY WATERER'	ANTHONY WATERER SPIREA	32	60cm HT	WB	
L	HEMEROCALLIS 'HYPERION'	HYPERION DAYLILIES	726	2 YR CONTAINER GROWN		
M	HEMEROCALLIS 'STELLA D'ORO'	STELLA D'ORO DWARF DAYLILIES	25	2 YR CONTAINER GROWN		
N	HEUCHERA MICRANTHA 'PURPLE PALACE'	CORAL BELLS	36	2 YR CONTAINER GROWN		
O	LEUCANTHEMUM X SUPERBUM	SHASTA DAISY	25	2 YR CONTAINER GROWN		
P	LIATRIS SPICATA	GAYFEATHER	48	2 YR CONTAINER GROWN		
Q	PERSICARIA AFFINIS 'DIMITY'	DIMITY FLEECE-FLOWER/KNOTWEED	146	2 YR CONTAINER GROWN		
R	SALVIA SUPERBA	SALVIA	96	2 YR CONTAINER GROWN		
S	CALAMAGROSTIS ARAND. 'KARL FOERSTER'	FEATHER REED GRASS	52	15cm POT		
T	DESCHAMPSIA	TUFTED HAIR GRASS	98	15cm POT		
U	MISCANTHUS SINENSIS GRACILLIMUS'	MAIDEN GRASS	36	15cm POT		
V	PENNISETUM ALOPECUROIDES 'ORIENTALE'	ORIENTAL FOUNTAIN GRASS	36	15cm POT		
W	SPOROBOLUS HETEROLEPIS	PRAIRIE DROPSEED	300	15cm POT		

PLT27/08/09

REVISIONS:

DATE	NO.	ITEM	BY

ONTARIO ASSOCIATION OF LANDSCAPE ARCHITECTS
OALA
DANIEL J. O'BRIEN
MEMBER

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PROJECT:

PORT PERRY
WATERFRONT

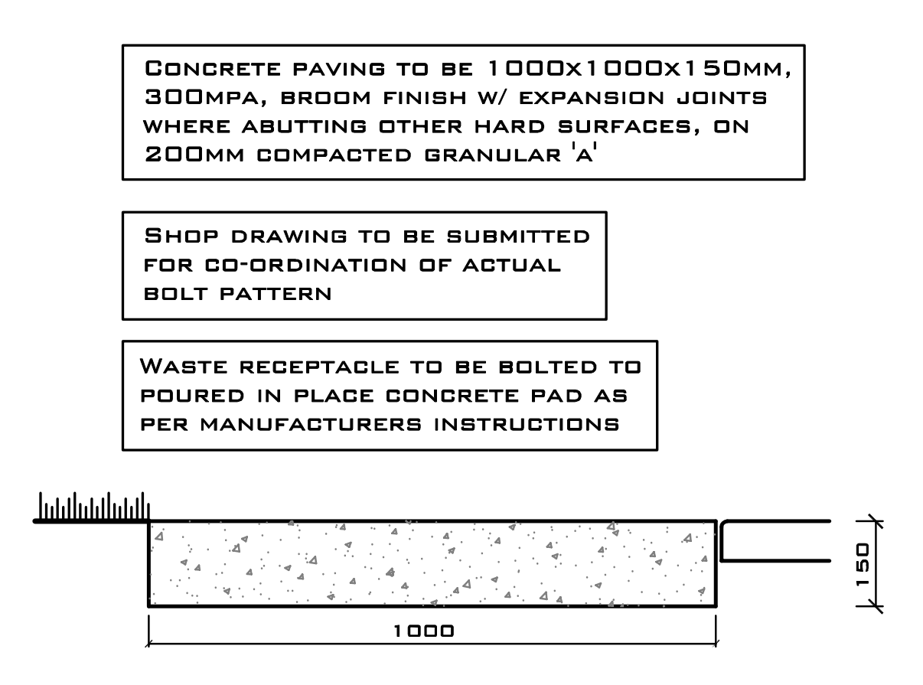
PORT PERRY, ONTARIO

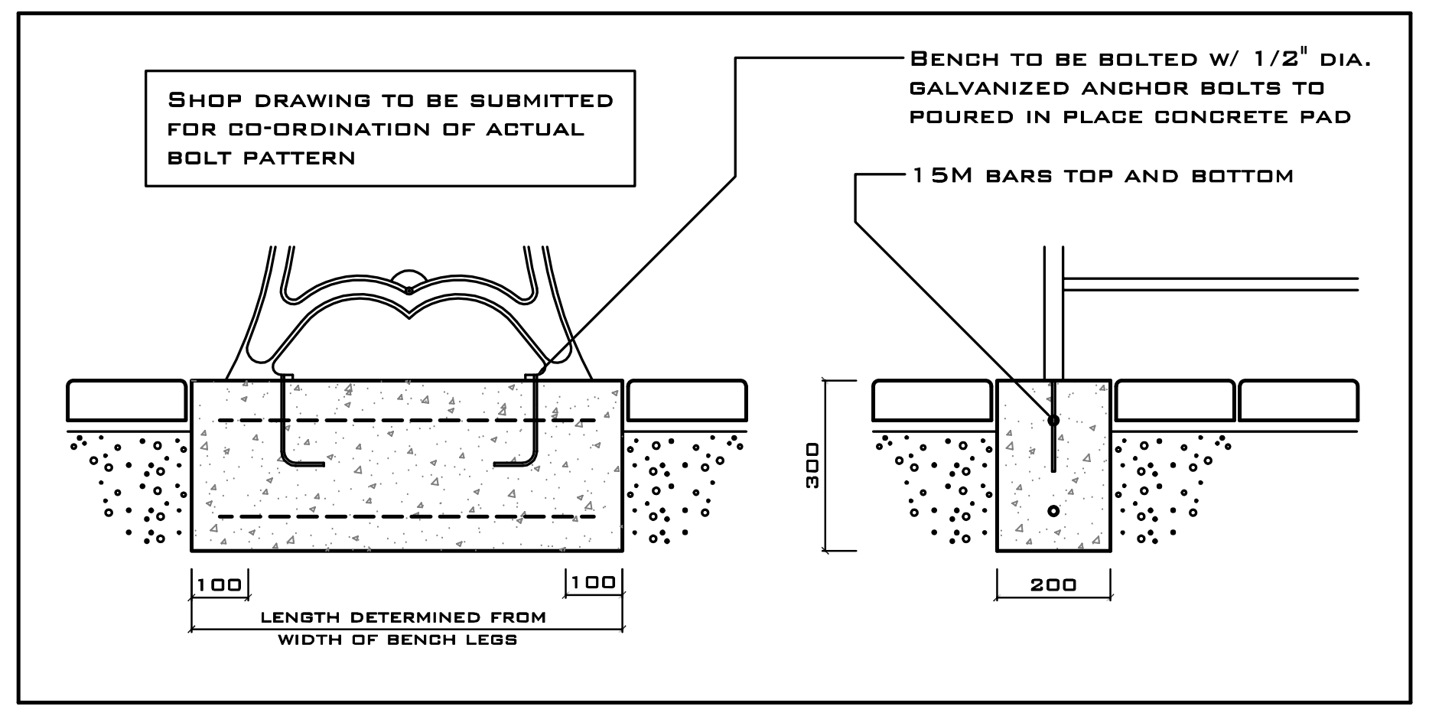
DRAWING:

WATER STREET ENLARGEMENT
AND CONSTRUCTION DETAILS

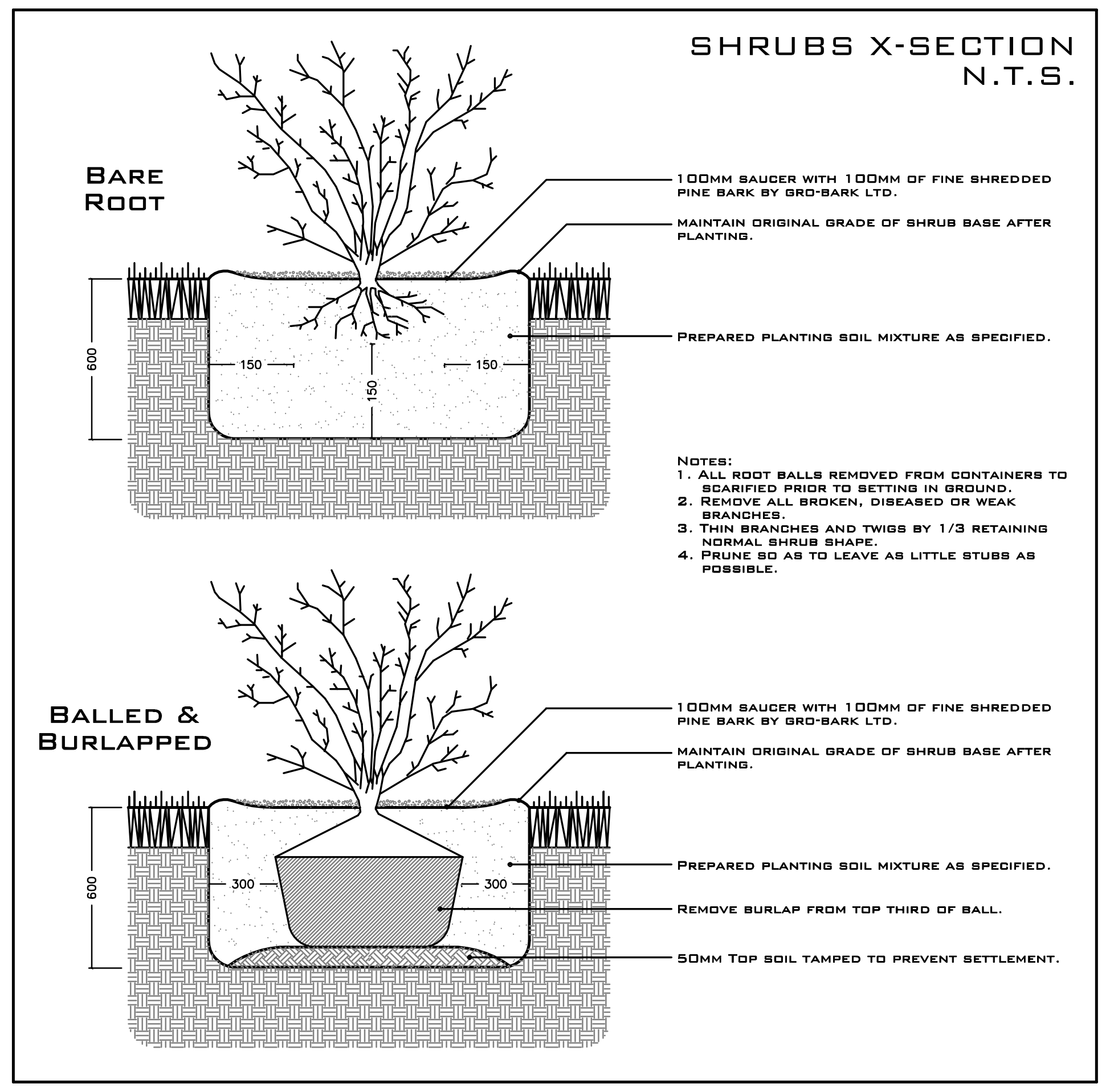
DATE: AUG 2009
DESIGNED: DOB
DRAWN: RPR
CHECKED: DOB
SCALE: 1:150

PROJECT NO: 2008-39
DRAWING NO: L3 OF 4


Concrete paving to be 1000x1000x150mm, 300mpa, broom finish w/ expansion joints where abutting other hard surfaces, on 200mm compacted granular 'a'
Shop drawing to be submitted for co-ordination of actual bolt pattern
Waste receptacle to be bolted to poured in place concrete pad as per manufacturers instructions
150
1000


Shop drawing to be submitted for co-ordination of actual bolt pattern
Bench to be bolted w/ 1/2" dia. galvanized anchor bolts to poured in place concrete pad
15M bars top and bottom
300
100
100
Length determined from width of bench legs
200

SHRUBS X-SECTION
N.T.S.


Bare Root
100mm saucer with 100mm of fine shredded pine bark by gro-bark ltd.
maintain original grade of shrub base after planting.
Prepared planting soil mixture as specified.
600
150
150
150
Balled & Burlapped
100mm saucer with 100mm of fine shredded pine bark by gro-bark ltd.
maintain original grade of shrub base after planting.
Prepared planting soil mixture as specified.
Remove burlap from top third of ball.
50mm Top soil tamped to prevent settlement.
600
300
300

Notes:
1. All root balls removed from containers to scarified prior to setting in ground.
2. Remove all broken, diseased or weak branches.
3. Thin branches and twigs by 1/3 retaining normal shrub shape.
4. Prune so as to leave as little stubs as possible.

SITE AMENITIES LEGEND:

BENCH: MODEL: KDB-36-6-BK (PETERBOROUGH)

BOLLARD: MODEL: TRADITIONAL (3'-6") NON-ILLUMINATED (COLOUR: ECLIPSE BLACK)

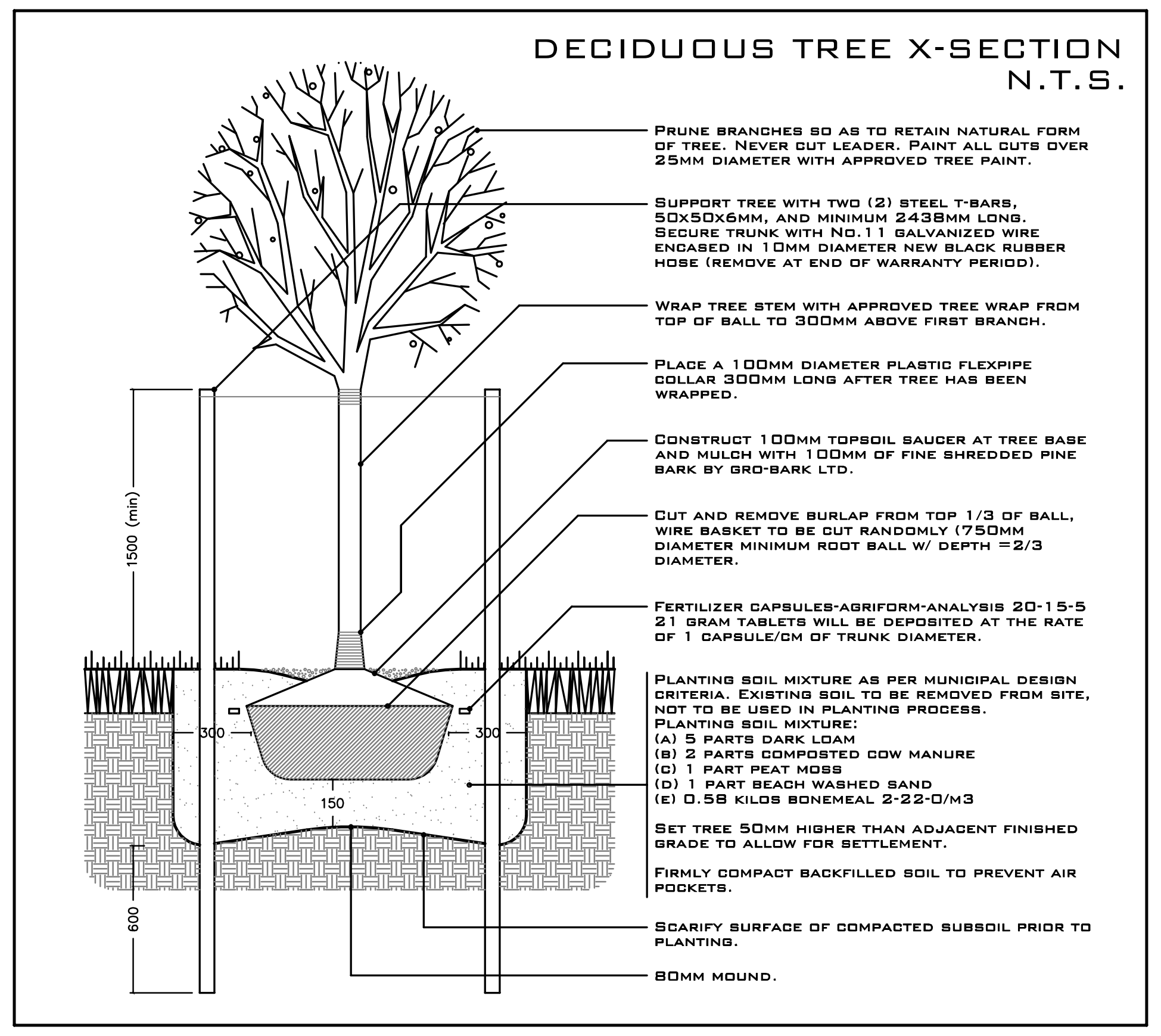
LIGHT STANDARD: MODEL: PORT PERRY TOWN HALL THEATRE (SEE DETAIL)
POLE: KM-12-G-S11 C/W 140-35/40, BA, FPR & DR
COLOUR: ECLIPSE BLACK
LUMINAIRE: K118R-BAR-III-60 (SSL)-5000-120-K13-PBC

NOTE: ALL SITE AMENITIES TO BE AS FOLLOWS (OR APPROVED EQUAL):

MANUFACTURER: KING LUMINAIRE/STRESSCRETE (TEL) 1-800-268-7809

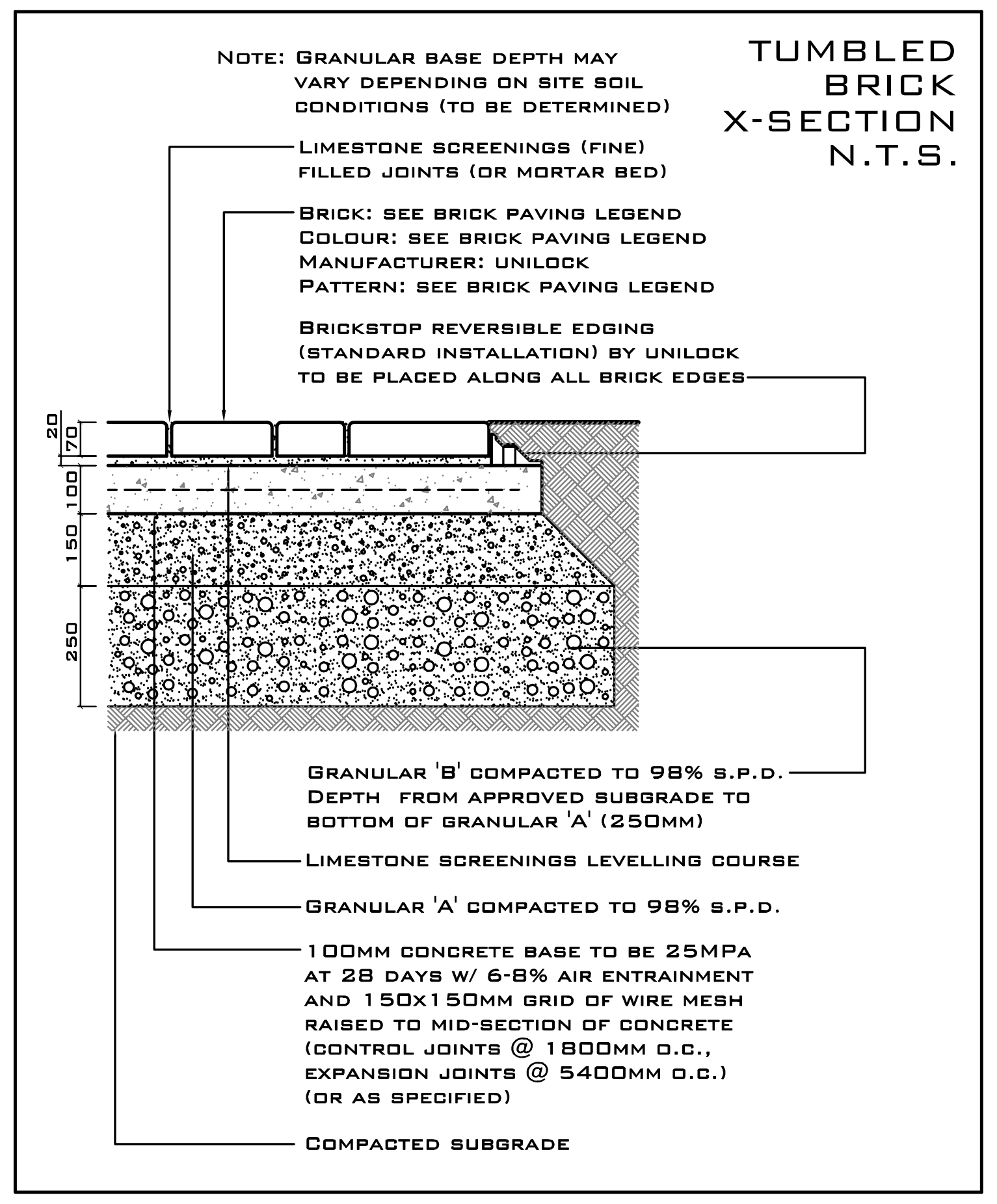
SUPPLIER: IDG DECORATIVE LIGHTING AND SITE FURNISHINGS
(CONTACT) JON TANNER
(TEL) 905-473-7624
(CELL) 905-717-2706
(FAX) 905-473-5658
(EMAIL) JONTANNER@XPLORNET.COM

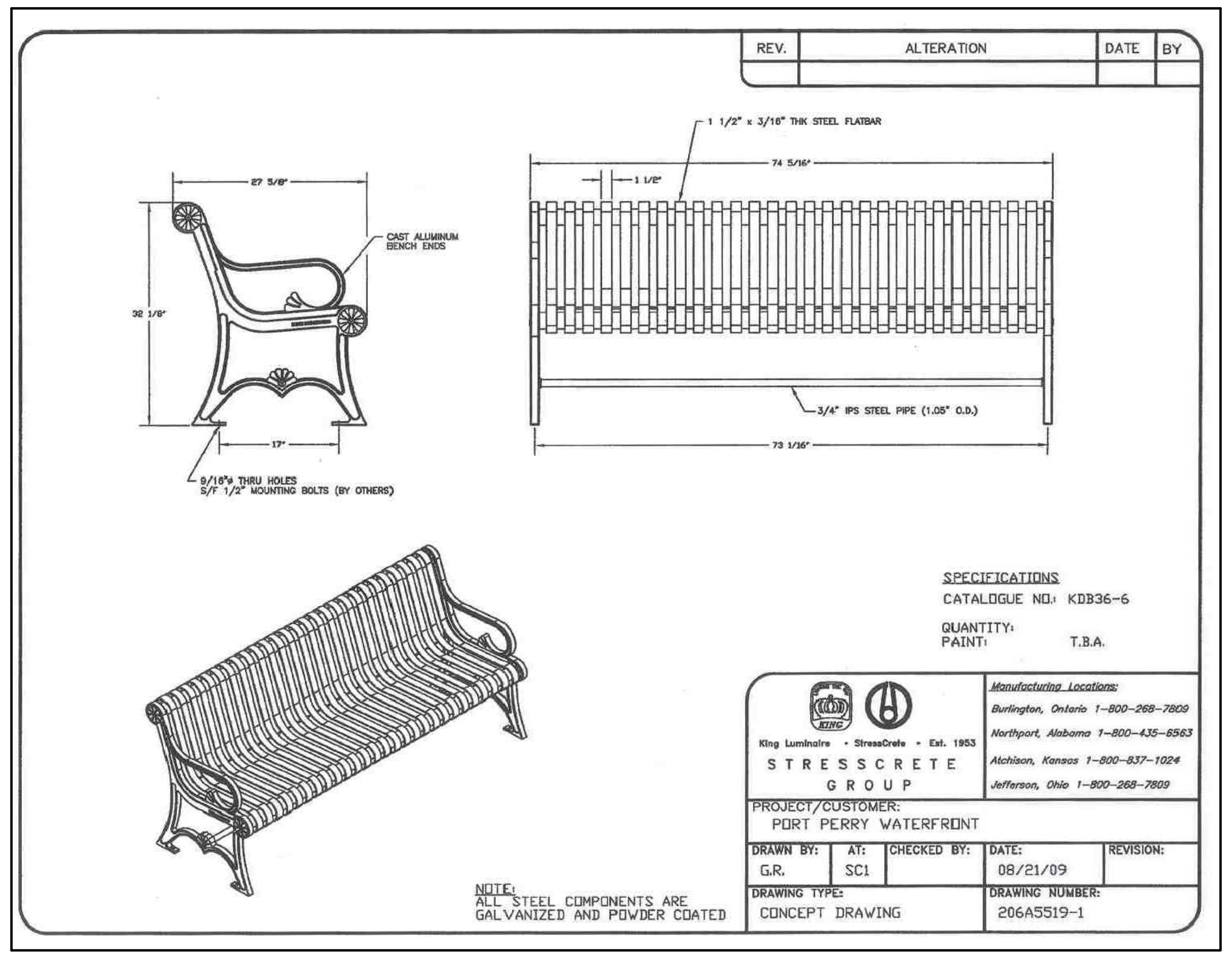
DECIDUOUS TREE X-SECTION
N.T.S.

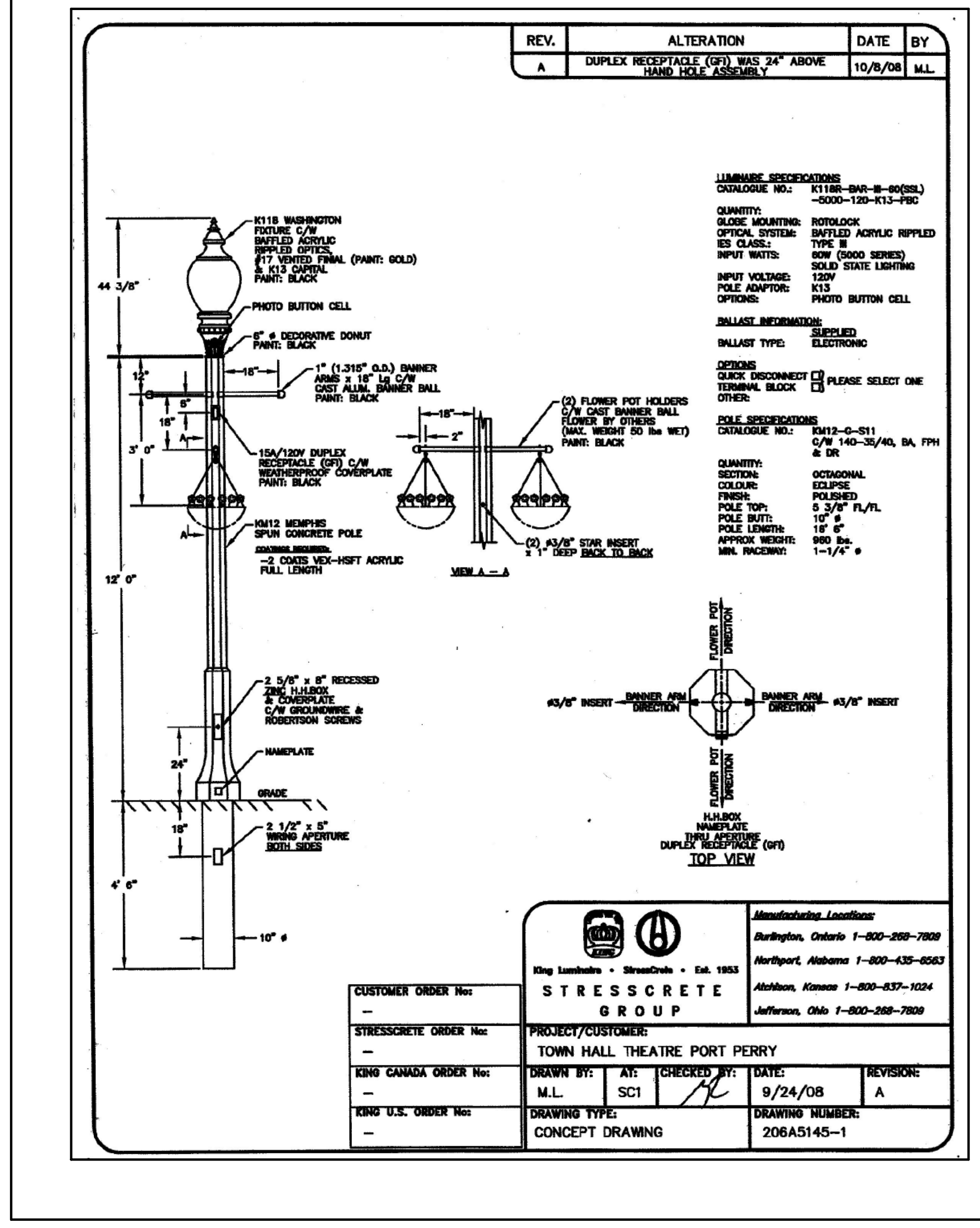

Prune branches so as to retain natural form of tree. Never cut leader. Paint all cuts over 25mm diameter with approved tree paint.
Support tree with two (2) steel t-bars, 50x50x6mm, and minimum 2438mm long. Secure trunk with No.11 galvanized wire encased in 10mm diameter new black rubber hose (remove at end of warranty period).
Wrap tree stem with approved tree wrap from top of ball to 300mm above first branch.
Place a 100mm diameter plastic flexpipe collar 300mm long after tree has been wrapped.
Construct 100mm topsoil saucer at tree base and mulch with 100mm of fine shredded pine bark by gro-bark ltd.
Cut and remove burlap from top 1/3 of ball, wire basket to be cut randomly (750mm diameter minimum root ball w/ depth =2/3 diameter.
Fertilizer capsules-agriform-analysis 20-15-5 21 gram tablets will be deposited at the rate of 1 capsule/cm of trunk diameter.
Planting soil mixture as per municipal design criteria. Existing soil to be removed from site, not to be used in planting process.
Planting soil mixture:
(a) 5 parts dark loam
(b) 2 parts composted cow manure
(c) 1 part peat moss
(d) 1 part beach washed sand
(e) 0.58 kilos bonemeal 2-22-0/m3
Set tree 50mm higher than adjacent finished grade to allow for settlement.
Firmly compact backfilled soil to prevent air pockets.
Scarify surface of compacted subsoil prior to planting.
80mm mound.
1500 (min)
600
300
300
150

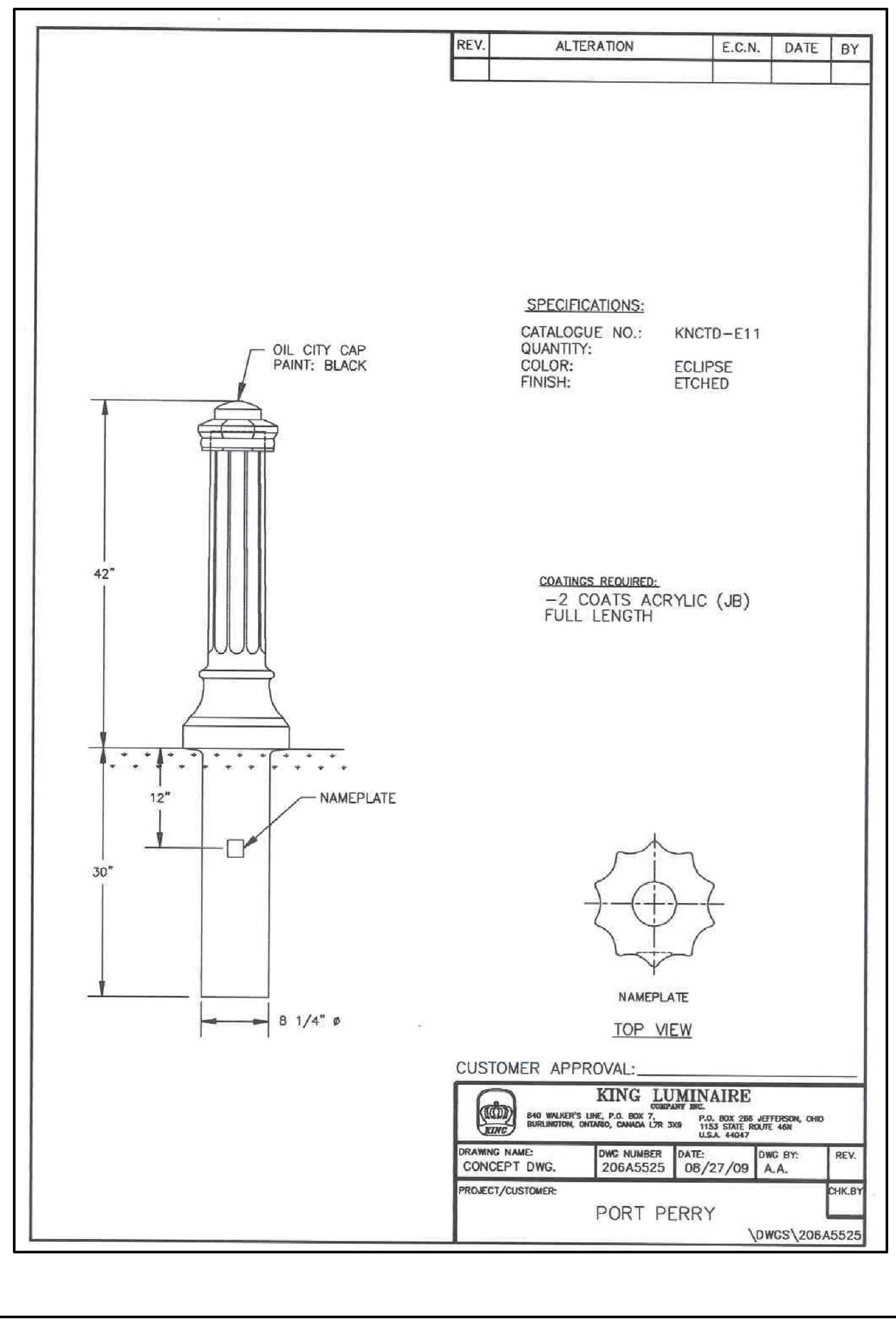
TUMBLED BRICK X-SECTION
N.T.S.

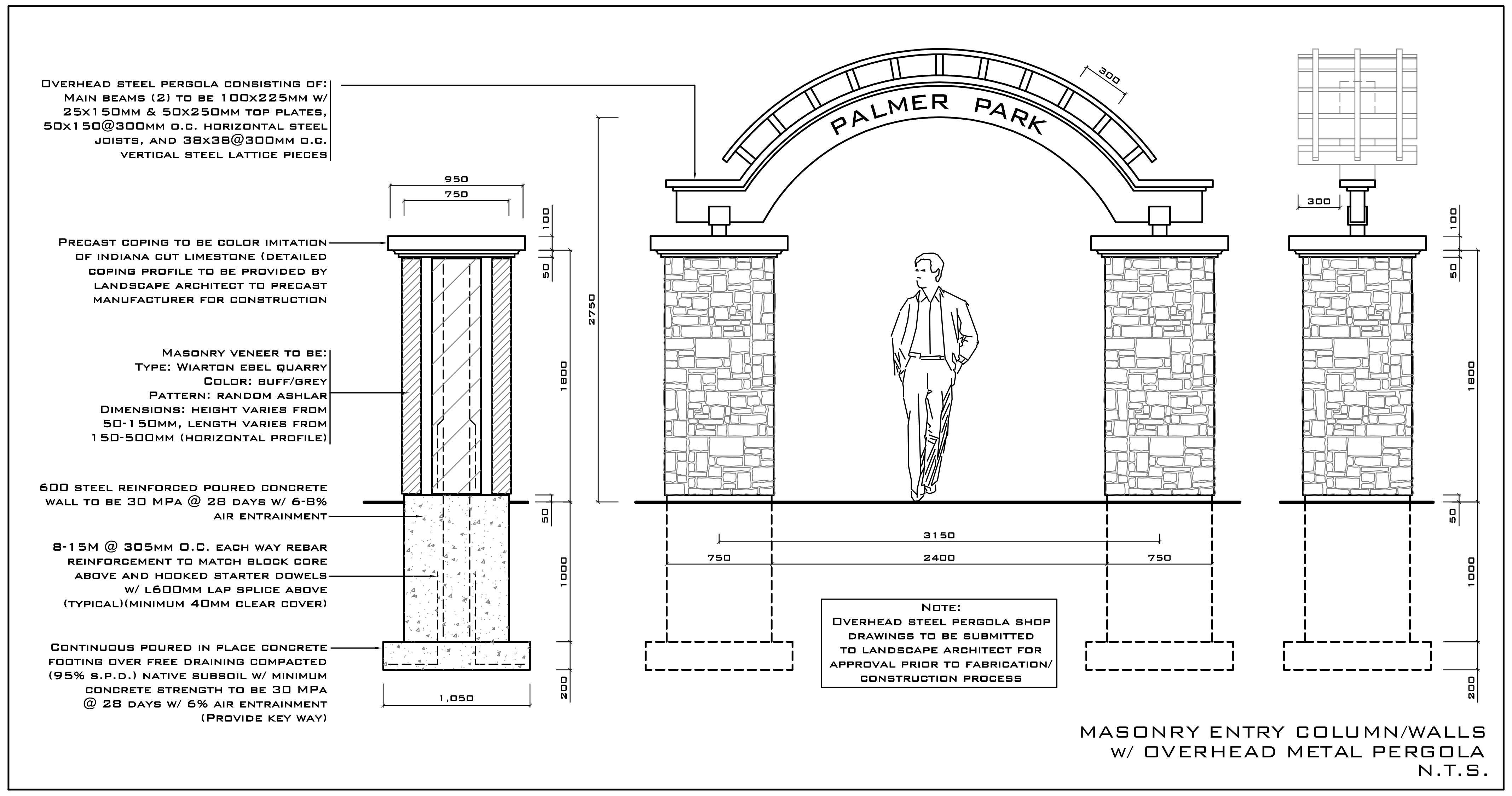
Note: Granular base depth may vary depending on site soil conditions (to be determined)


Limestone screenings (fine) filled joints (or mortar bed)
Brick: see brick paving legend
Colour: see brick paving legend
Manufacturer: unilock
Pattern: see brick paving legend
Brickstop reversible edging (standard installation) by unilock to be placed along all brick edges
Granular 'B' compacted to 98% s.p.d. Depth from approved subgrade to bottom of granular 'A' (250mm)
Limestone screenings levelling course
Granular 'A' compacted to 98% s.p.d.
100mm concrete base to be 25MPa at 28 days w/ 6-8% air entrainment and 150x150mm grid of wire mesh raised to mid-section of concrete (control joints @ 1800mm o.c., expansion joints @ 5400mm o.c.) (or as specified)
Compacted subgrade
20
70
100
150
250


REV.
ALTERATION
DATE
BY
1 1/2" x 3/16" THK STEEL FLATBAR
74 5/16"
1 1/2"
27 5/8"
CAST ALUMINUM BENCH ENDS
32 1/8"
17"
9/16"ø THRU HOLES S/F 1/2" MOUNTING BOLTS (BY OTHERS)
3/4" IPS STEEL PIPE (1.05" O.D.)
73 1/16"
SPECIFICATIONS
CATALOGUE NO.: KDB36-6
QUANTITY:
PAINT: T.B.A.
King Luminaire • StressCrete • Est. 1953
STRESSCRETE GROUP
Manufacturing Locations:
Burlington, Ontario 1-800-268-7809
Northport, Alabama 1-800-435-6563
Atchison, Kansas 1-800-837-1024
Jefferson, Ohio 1-800-268-7809
PROJECT/CUSTOMER: PORT PERRY WATERFRONT
DRAWN BY: G.R.
AT: SC1
CHECKED BY:
DATE: 08/21/09
REVISION:
DRAWING TYPE: CONCEPT DRAWING
DRAWING NUMBER: 206A5519-1
NOTE: ALL STEEL COMPONENTS ARE GALVANIZED AND POWDER COATED


REV.
ALTERATION
DATE
BY
A
DUPLEX RECEPTACLE (GFI) WAS 24" ABOVE HAND HOLE ASSEMBLY
10/8/08
M.L.
K118 WASHINGTON FIXTURE C/W BAFFLED ACRYLIC RIPPLED OPTICS, #17 VENTED FINIAL (PAINT: GOLD) & K13 CAPITAL PAINT: BLACK
PHOTO BUTTON CELL
6" ø DECORATIVE DONUT PAINT: BLACK
1" (1.315" O.D.) BANNER ARMS x 18" Lg C/W CAST ALUM. BANNER BALL PAINT: BLACK
15A/120V DUPLEX RECEPTACLE (GFI) C/W WEATHERPROOF COVERPLATE PAINT: BLACK
KM12 MEMPHIS SPUN CONCRETE POLE
COATINGS REQUIRED:
-2 COATS VEX-HSFT ACRYLIC FULL LENGTH
2 5/8" x 8" RECESSED ZINC H.H.BOX & COVERPLATE C/W GROUNDWIRE & ROBERTSON SCREWS
NAMEPLATE
GRADE
2 1/2" x 5" WIRING APERTURE BOTH SIDES
44 3/8"
12"
18"
6"
18"
3' 0"
12' 0"
24"
18"
4' 6"
10" ø
(2) FLOWER POT HOLDERS C/W CAST BANNER BALL FLOWER BY OTHERS (MAX. WEIGHT 50 lbs WET) PAINT: BLACK
2"
(2) ø3/8" STAR INSERT x 1" DEEP BACK TO BACK
VIEW A – A
LUMINAIRE SPECIFICATIONS
CATALOGUE NO.: K118R-BAR-III-60(SSL) -5000-120-K13-PBC
QUANTITY:
GLOBE MOUNTING: ROTOLOCK
OPTICAL SYSTEM: BAFFLED ACRYLIC RIPPLED
IES CLASS.: TYPE III
INPUT WATTS: 60W (5000 SERIES) SOLID STATE LIGHTING
INPUT VOLTAGE: 120V
POLE ADAPTOR: K13
OPTIONS: PHOTO BUTTON CELL
BALLAST INFORMATION:
BALLAST TYPE: SUPPLIED ELECTRONIC
OPTIONS
QUICK DISCONNECT ☐ PLEASE SELECT ONE
TERMINAL BLOCK ☐
OTHER:
POLE SPECIFICATIONS
CATALOGUE NO.: KM12-C-S11 C/W 140-35/40, BA, FPH & DR
QUANTITY:
SECTION: OCTAGONAL
COLOUR: ECLIPSE
FINISH: POLISHED
POLE TOP: 5 3/8" FL/FL
POLE BUTT: 10" ø
POLE LENGTH: 18' 6"
APPROX WEIGHT: 960 lbs.
MIN. RACEWAY: 1-1/4" ø
FLOWER POT DIRECTION
ø3/8" INSERT
BANNER ARM DIRECTION
H.H.BOX NAMEPLATE THRU APERTURE DUPLEX RECEPTACLE (GFI)
TOP VIEW
CUSTOMER ORDER No: –
STRESSCRETE ORDER No: –
KING CANADA ORDER No: –
KING U.S. ORDER No: –
King Luminaire • StressCrete • Est. 1953
STRESSCRETE GROUP
Manufacturing Locations:
Burlington, Ontario 1-800-268-7809
Northport, Alabama 1-800-435-6563
Atchison, Kansas 1-800-837-1024
Jefferson, Ohio 1-800-268-7809
PROJECT/CUSTOMER: TOWN HALL THEATRE PORT PERRY
DRAWN BY: M.L.
AT: SC1
CHECKED BY:
DATE: 9/24/08
REVISION: A
DRAWING TYPE: CONCEPT DRAWING
DRAWING NUMBER: 206A5145-1


REV.
ALTERATION
E.C.N.
DATE
BY
OIL CITY CAP PAINT: BLACK
42"
12"
30"
NAMEPLATE
8 1/4" ø
SPECIFICATIONS:
CATALOGUE NO.: KNCTD-E11
QUANTITY:
COLOR: ECLIPSE
FINISH: ETCHED
COATINGS REQUIRED:
-2 COATS ACRYLIC (JB) FULL LENGTH
NAMEPLATE
TOP VIEW
CUSTOMER APPROVAL:
KING LUMINAIRE COMPANY INC.
840 WALKER'S LINE, P.O. BOX 7, BURLINGTON, ONTARIO, CANADA L7R 3X9
P.O. BOX 266 JEFFERSON, OHIO 1153 STATE ROUTE 46N U.S.A. 44047
DRAWING NAME: CONCEPT DWG.
DWG NUMBER: 206A5525
DATE: 08/27/09
DWG BY: A.A.
REV.
PROJECT/CUSTOMER: PORT PERRY
CHK.BY
\DWGS\206A5525


Overhead steel pergola consisting of: Main beams (2) to be 100x225mm w/ 25x150mm & 50x250mm top plates, 50x150@300mm o.c. horizontal steel joists, and 38x38@300mm o.c. vertical steel lattice pieces
Precast coping to be color imitation of indiana cut limestone (detailed coping profile to be provided by landscape architect to precast manufacturer for construction
Masonry veneer to be: Type: Wiarton ebel quarry Color: buff/grey Pattern: random ashlar Dimensions: height varies from 50-150mm, length varies from 150-500mm (horizontal profile)
600 steel reinforced poured concrete wall to be 30 MPa @ 28 days w/ 6-8% air entrainment
8-15M @ 305mm O.C. each way rebar reinforcement to match block core above and hooked starter dowels w/ L600mm lap splice above (typical)(minimum 40mm clear cover)
Continuous poured in place concrete footing over free draining compacted (95% s.p.d.) native subsoil w/ minimum concrete strength to be 30 MPa @ 28 days w/ 6% air entrainment (Provide key way)
950
750
100
50
2750
1800
50
1000
200
1,050
PALMER PARK
300
3150
750
2400
750
300
100
50
1800
50
1000
200

Note:
Overhead steel pergola shop drawings to be submitted to landscape architect for approval prior to fabrication/construction process

MASONRY ENTRY COLUMN/WALLS
w/ OVERHEAD METAL PERGOLA
N.T.S.

PLT27/08/09

REVISIONS:

DATE	NO.	ITEM	BY

MEMBER

LANDSCAPE ARCHITECTS
LANDSCAPE DESIGN, CONSULTATION
& PROJECT MANAGEMENT

DANIEL J. O'BRIEN
& associates ltd.

180 MARY STREET
PORT PERRY, ONTARIO
L9L 1B7

TEL: 905-985-4466
WEB : www.obrienassociates.ca

PROJECT:

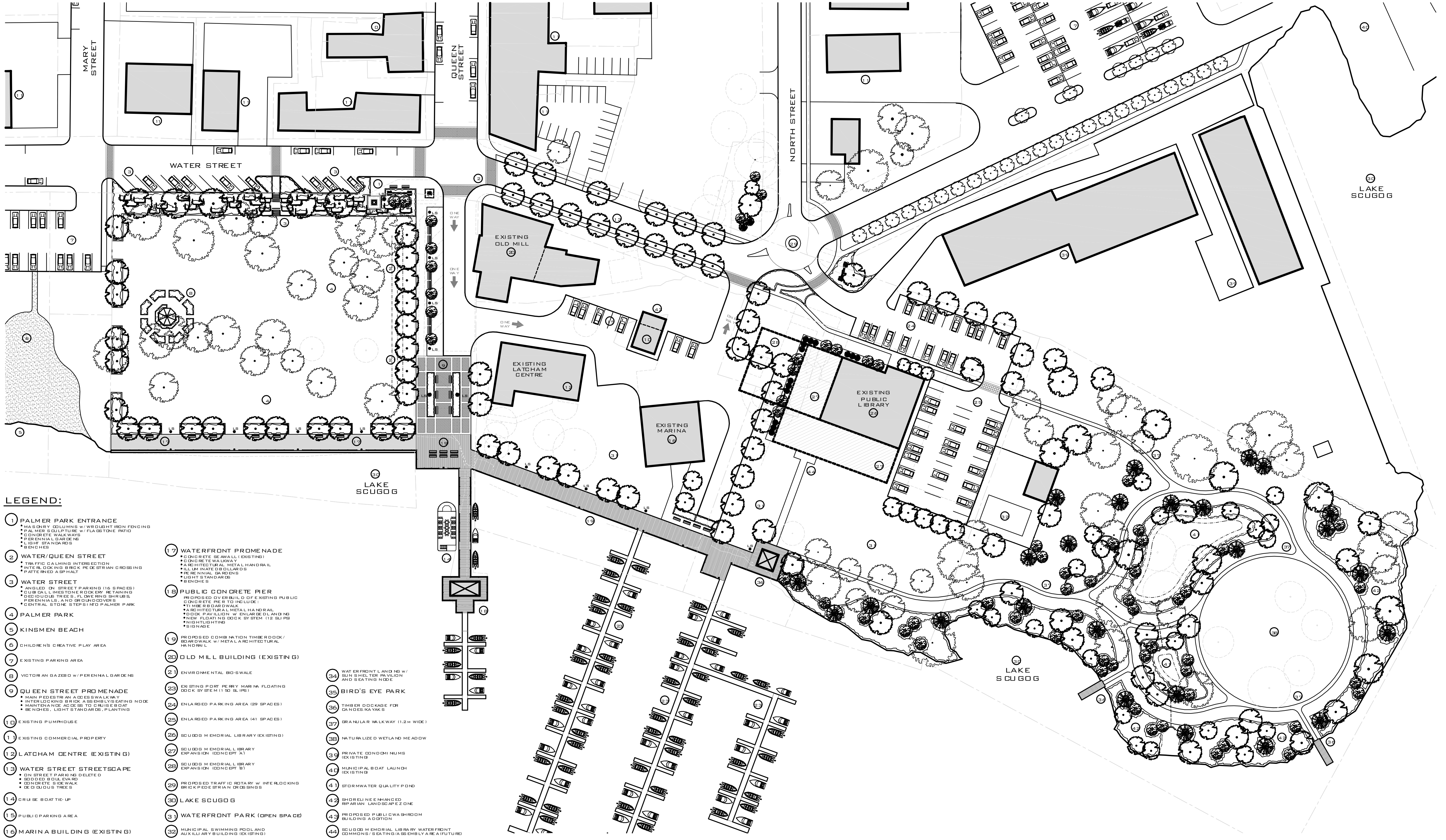
PORT PERRY
WATERFRONT

PORT PERRY, ONTARIO

DRAWING:

LANDSCAPE CONSTRUCTION
DETAILS

DATE: Aug 2009	PROJECT NO: 2008-39
DESIGNED: DOB	
DRAWN: RPR	
CHECKED: DOB	DRAWING NO: L4 OF 4
SCALE: AS SHOWN	



LEGEND:

① PALMER PARK ENTRANCE
- MASONRY COLUMNS w/WROUGHT IRON FENCING
- PALMER SCULPTURE w/FLAGSTONE PATIO
- CONCRETE WALKWAYS
- PERENNIAL GARDENS
- LIGHT STANDARDS
- BENCHES

② WATER/QUEEN STREET
- TRAFFIC CALMING INTERSECTION
- INTERLOCKING BRICK PEDESTRIAN CROSSING
- PATTERNED ASPHALT

③ WATER STREET
- ANGLED ON STREET PARKING (16 SPACES)
- CUBICAL LIMESTONE ROCKERY RETAINING
- DECIDUOUS TREES, FLOWERING SHRUBS, PERENNIALS, AND GROUNDCOVERS
- CENTRAL STONE STEPS INTO PALMER PARK

④ PALMER PARK

⑤ KINSMEN BEACH

⑥ CHILDREN'S CREATIVE PLAY AREA

⑦ EXISTING PARKING AREA

⑧ VICTORIAN GAZEBO w/PERENNIAL GARDENS

⑨ QUEEN STREET PROMENADE
- MAIN PEDESTRIAN ACCESS WALKWAY
- INTERLOCKING BRICK ASSEMBLY/SEATING NODE
- MAINTENANCE ACCESS TO CRUISE BOAT
- BENCHES, LIGHT STANDARDS, PLANTING

⑩ EXISTING PUMPHOUSE

⑪ EXISTING COMMERCIAL PROPERTY

⑫ LATCHAM CENTRE (EXISTING)

⑬ WATER STREET STREETSCAPE
- ON STREET PARKING DELETED
- SODDED BOULEVARD
- CONCRETE SIDEWALK
- DECIDUOUS TREES

⑭ CRUISE BOAT TIE-UP

⑮ PUBLIC PARKING AREA

⑯ MARINA BUILDING (EXISTING)

⑰ WATERFRONT PROMENADE
- CONCRETE SEAWALL (EXISTING)
- CONCRETE WALKWAY
- ARCHITECTURAL METAL HANDRAIL
- ILLUMINATED BOLLARDS
- PERENNIAL GARDENS
- LIGHT STANDARDS
- BENCHES

⑱ PUBLIC CONCRETE PIER

PROPOSED OVERBUILD OF EXISTING PUBLIC CONCRETE PIER TO INCLUDE:
- TIMBER BOARDWALK
- ARCHITECTURAL METAL HANDRAIL
- DOCK PAVILLION w/ ENLARGED LANDING
- NEW FLOATING DOCK SYSTEM (12 SLIPS)
- NIGHTLIGHTING
- SIGNAGE

⑲ PROPOSED COMBINATION TIMBER DOCK/ BOARDWALK w/METAL ARCHITECTURAL HANDRAIL

⑳ OLD MILL BUILDING (EXISTING)

㉑ ENVIRONMENTAL BIO-SWALE

㉓ EXISTING PORT PERRY MARINA FLOATING DOCK SYSTEM (150 SLIPS)

㉔ ENLARGED PARKING AREA (29 SPACES)

㉕ ENLARGED PARKING AREA (41 SPACES)

㉖ SCUGOG MEMORIAL LIBRARY (EXISTING)

㉗ SCUGOG MEMORIAL LIBRARY EXPANSION (CONCEPT 'A')

㉘ SCUGOG MEMORIAL LIBRARY EXPANSION (CONCEPT 'B')

㉙ PROPOSED TRAFFIC ROTARY w/ INTERLOCKING BRICK PEDESTRIAN CROSSINGS

㉚ LAKE SCUGOG

㉛ WATERFRONT PARK (OPEN SPACE)

㉜ MUNICIPAL SWIMMING POOL AND AUXILLIARY BUILDING (EXISTING)

㉞ WATERFRONT LANDING w/ SUN SHELTER PAVILION AND SEATING NODE

㉟ BIRD'S EYE PARK

㊱ TIMBER DOCKAGE FOR CANOES/KAYAKS

㊲ GRANULAR WALKWAY (1.2m WIDE)

㊳ NATURALIZED WETLAND MEADOW

㊴ PRIVATE CONDOMINIUMS (EXISTING)

㊵ MUNICIPAL BOAT LAUNCH (EXISTING)

㊶ STORMWATER QUALITY POND

㊷ SHORELINE ENHANCED RIPARIAN LANDSCAPE ZONE

㊸ PROPOSED PUBLIC WASHROOM BUILDING ADDITION

㊹ SCUGOG MEMORIAL LIBRARY WATERFRONT COMMONS/SEATING/ASSEMBLY AREA (FUTURE)

PLT14/12/09

REVISIONS:

DATE	NO.	ITEM	BY

DANIEL J. O'BRIEN
OALA
MEMBER

LANDSCAPE ARCHITECTS
LANDSCAPE DESIGN, CONSULTATION
& PROJECT MANAGEMENT

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180 MARY STREET
PORT PERRY, ONTARIO
L9L 1B7

TEL: 905-985-4466
WEB : www.obrienassociates.ca

PROJECT:

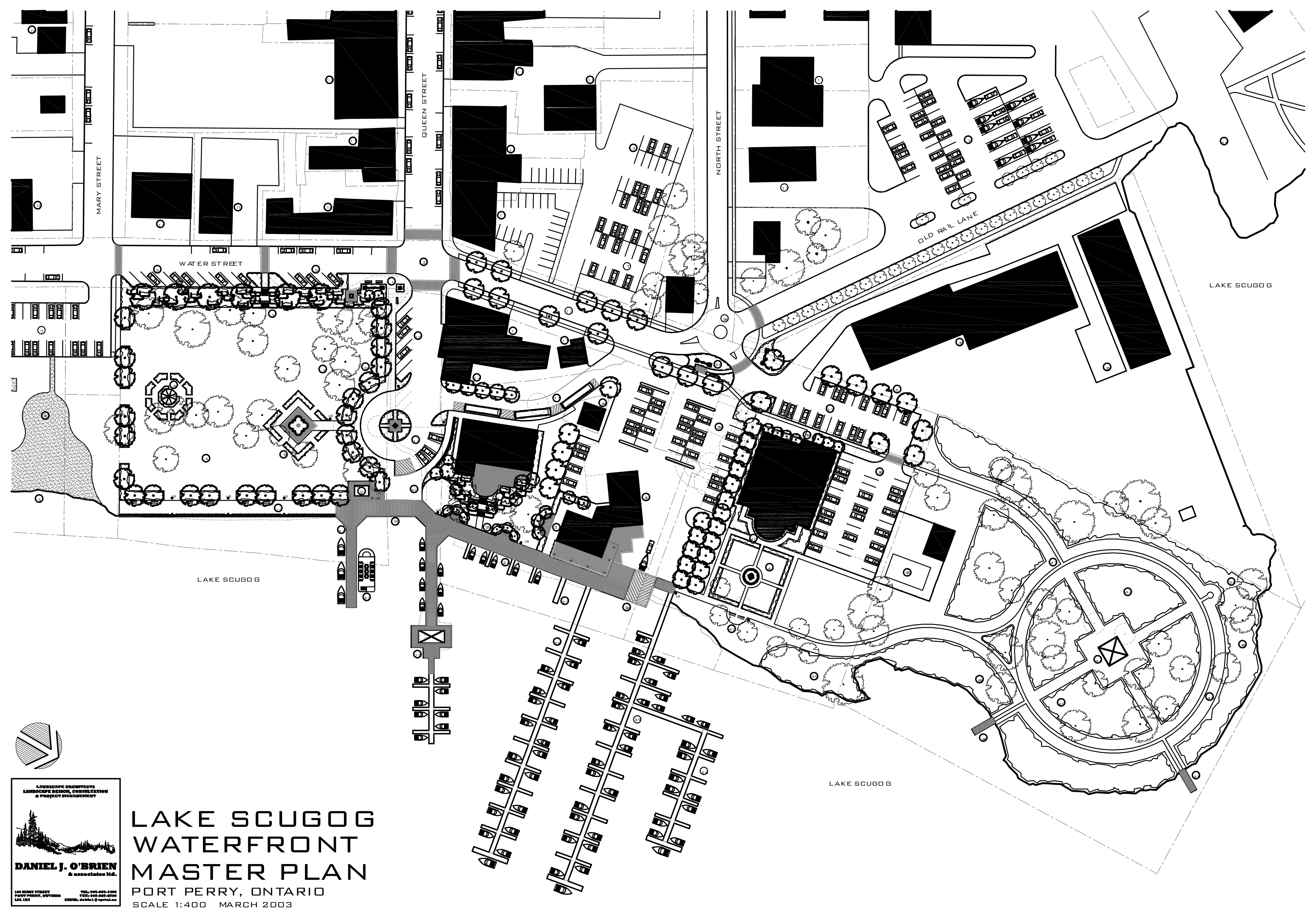
PORT PERRY
WATERFRONT

PORT PERRY, ONTARIO

DRAWING:

OVERALL LANDSCAPE
MASTER PLAN

DATE:	DEC 2009	PROJECT NO:	2008-39
DESIGNED:	DOB		
DRAWN:	RPR		
CHECKED:	DOB	DRAWING NO:	L1 OF 1
SCALE:	1:400		



LEGEND:

1. **PALMER PARK ENTRANCE**
   - MASONRY COLUMNS w/WROUGHT IRON FENCING
   - PALMER SCULPTURE w/FLAGSTONE PATIO
   - CONCRETE WALKWAYS
   - PERENNIAL GARDENS
   - LIGHT STANDARDS
   - BENCHES
2. **WATER/QUEEN STREET**
   - TRAFFIC CALMING INTERSECTION
   - INTERLOCKING BRICK PEDESTRIAN CROSSING
   - PATTERNED ASPHALT
3. **WATER STREET**
   - ANGLED ON STREET PARKING (16 SPACES)
   - CUBICAL LIMESTONE ROCKERY RETAINING
   - DECIDUOUS TREES, FLOWERING SHRUBS, PERENNIALS, AND GROUNDCOVERS
   - CENTRAL STONE STEPS INTO PALMER PARK
4. **PALMER PARK**
5. **KINSMEN BEACH**
6. CHILDREN'S CREATIVE PLAY AREA
7. EXISTING PARKING AREA
8. VICTORIAN GAZEBO w/ PERENNIAL GARDENS
9. VICTORIAN WATER FEATURE w/INTERLOCKING BRICK PAVING AND PERENNIAL GARDENS
10. QUEEN STREET ANGLED ON STREET PARKING (7 SPACES)
11. EXISTING COMMERCIAL PROPERTY
12. **QUEEN STREET TRAFFIC CIRCLE**
    - ONE WAY ASPHALT TRAFFIC CIRCLE
    - LANDSCAPE ISLAND w/GARDEN SCULPTURE
    - MAINTENANCE ACCESS TO CRUISE BOAT
    - PARKING (6 SPACES)
13. **WATER STREET STREETSCAPE**
    - ON STREET PARKING DELETED
    - SODDED BOULEVARD
    - CONCRETE SIDEWALK
    - DECIDUOUS TREES
14. LANDSCAPE BUFFER ISLAND
15. ONE WAY ACCESS ROADWAY w/ TOUR BUS LAYBY (3 SPACES)
16. **LATCHAM COMMUNITY CENTRE**
    - OUTDOOR TERRACE OF BRICK PAVING
    - CUBICAL LIMESTONE ROCKERY RETAINING
    - PERENNIAL GARDENS
    - STONE STEPS
17. **WATERFRONT PROMENADE**
    - CONCRETE SEAWALL (EXISTING)
    - CONCRETE WALKWAY
    - ARCHITECTURAL METAL HANDRAIL
    - ILLUMINATED BOLLARDS
    - PERENNIAL GARDENS
    - LIGHT STANDARDS
    - BENCHES
18. **PUBLIC CONCRETE PIER**
    PROPOSED OVERBUILD OF EXISTING PUBLIC CONCRETE PIER TO INCLUDE:
    - TIMBER BOARDWALK
    - ARCHITECTURAL METAL HANDRAIL
    - DOCK PAVILLION w/ENLARGED LANDING
    - NEW FLOATING DOCK SYSTEM (12 SLIPS)
    - NIGHT LIGHTING
    - SIGNAGE
19. PROPOSED COMBINATION TIMBER DOCK/ BOARDWALK w/METAL ARCHITECTURAL HANDRAIL
20. CONCRETE APRON/ASSEMBLY AREA/ MAINTENANCE ACCESS
21. **KIOSK BUILDING**
    - TICKET SALES
    - CONCESSIONS
    - SOUVENIRS
    - INTERLOCKING BRICK ASSEMBLY AREA
    - LIGHT STANDARD
    - BENCHES
22. PROPOSED TIMBER FLOATING DOCK (2.0x30.0m) w/SECURITY GATE
23. CRUISE BOAT TIE-UP
24. DURHAM REGION UTILITY BUILDING
25. SEATING NODE w/ BENCH AND PERENNIAL GARDENS
26. EXISTING TIMBER BOARDWALK AND DOCKAGE
27. EXISTING GAS DOCK
28. EXISTING PORT PERRY MARINA FLOATING DOCK SYSTEM (150 SLIPS)
29. ENLARGED PORT PERRY MARINA PARKING AREA (53 SPACES)
30. PORT PERRY MARINA BUILDING (EXISTING)
31. **PROPOSED MARINA ADDITION**
    - TWO STOREY ADDITION
    - UPPER TIMBER DECK
    - OUTDOOR HARD SURFACE PATIO
    - RESTAURANT
    - PUBLIC WASHROOMS
    - SNACK BAR
    - BOAT AND DOCK RENTALS
    - SALES AND MARINE SERVICES
    - BAIT AND TACKLE
32. EXISTING BOAT RAMP w/ ENLARGED TIMBER DECK
33. PRIVATE CONDOMINIUMS (EXISTING)
34. PROPOSED TRAFFIC ROTARY w/INTERLOCKING BRICK PEDESTRIAN CROSSINGS
35. MUNICIPAL BOAT LAUNCH (EXISTING)
36. **PROPOSED SIGNAGE**
    PROPOSED MASONRY COLUMNS AND SIGNAGE FOR:
    - PORT PERRY MARINA
    - SCUGOG MEMORIAL LIBRARY
37. ENLARGED PARKING AREA (29 SPACES)
38. ENLARGED PARKING AREA (41 SPACES)
39. SCUGOG MEMORIAL LIBRARY (EXISTING)
40. SCUGOG MEMORIAL LIBRARY EXPANSION (CONCEPTUAL)
41. SCUGOG MEMORIAL LIBRARY WATERFRONT COMMONS TO INCLUDE PERENNIALS GARDENS, PRIMARY ASPHALT WALKWAYS (1.8m WIDE), SECONDARY GRANULAR WALKWAYS (1.2m WIDE), CENTRAL GARDEN FEATURE
42. MUNICIPAL SWIMMING POOL AND AUXILLIARY BUILDING (EXISTING)
43. MAIN ASPHALT PROMENADE (2.4m WIDE), SEATING NODE w/ BENCHES, AND LIGHT STANDARDS
44. **BIRD'S EYE PARK**
45. TIMBER DOCKAGE FOR CANOES/KAYAKS
46. PICNIC SHELTER
47. GRANULAR WALKWAY (1.2m WIDE)
48. MAINTAINED LAWN AREA
49. NATURALIZED PARKLAND w/WILDFLOWERS, NATIVE SHRUBS, AND BIRD/BUTTERFLY HABITAT ENHANCEMENT
50. EXISTING TREE (TYPICAL)
51. PROPOSED TREE (TYPICAL)

LANDSCAPE ARCHITECTS
LANDSCAPE DESIGN, CONSULTATION
& PROJECT MANAGEMENT

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LAKE SCUGOG WATERFRONT MASTER PLAN

PORT PERRY, ONTARIO
SCALE 1:400 MARCH 2003