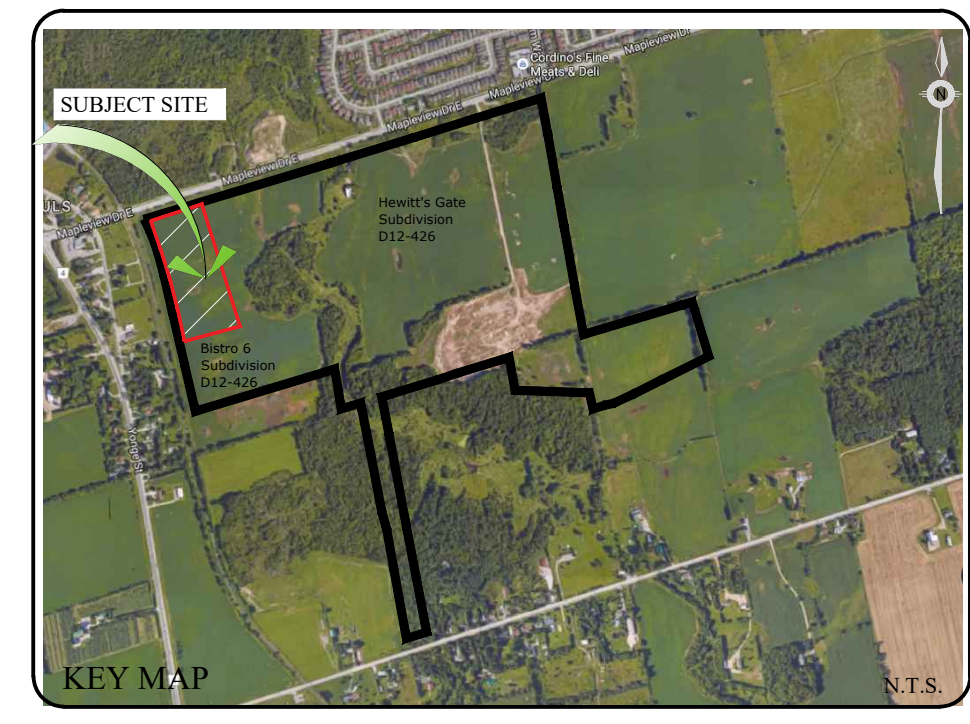


- BASE INFO/ UTILITIES LEGEND (REFER TO GRADING PLAN)**
- PROPOSED GRADIENT AND DIRECTION
 - PROPOSED 3:1 SLOPE (MAX.)
 - PROPOSED STORM MAINTENANCE HOLE
 - PROPOSED CATCHBASIN MAINTENANCE HOLE
 - PROPOSED CATCHBASIN
 - PROPOSED DOUBLE CATCHBASIN
 - PROPOSED SANITARY MAINTENANCE HOLE
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 - PROPOSED BELL PEDESTAL/HANDHOLES
 - PROPOSED BELL DUCT
 - PROPOSED BELL VAULT
 - PROPOSED ROGERS VAULT
 - PROPOSED HYDRO TRANSFORMER
 - PROPOSED EV CHARGER STATION
 - PROPOSED EMERGENCY OVERLAND FLOW ROUTE



GENERAL NOTES

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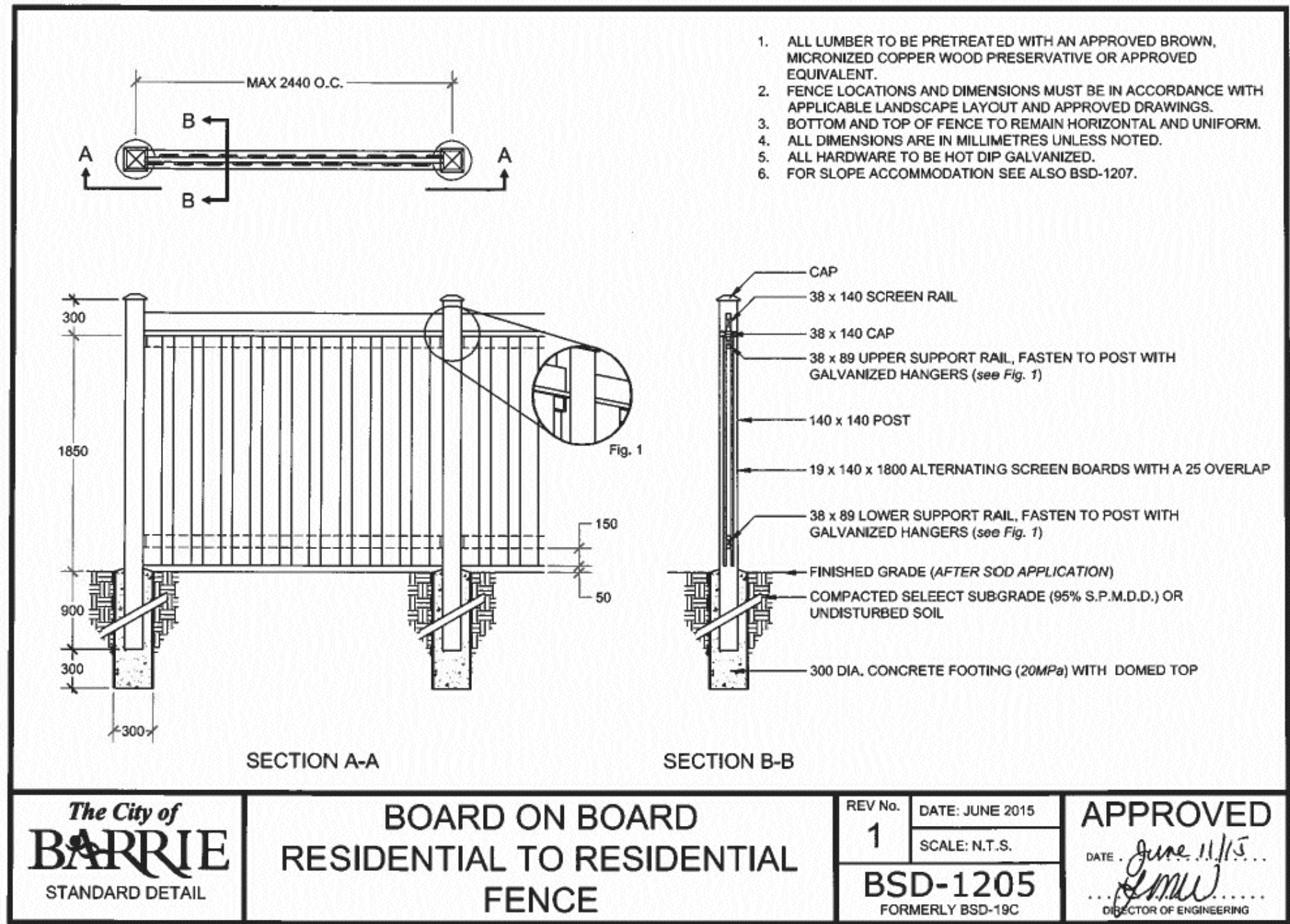
No.	REVISION	DATE	APRVD.
1.	SUBMITTED TO THE CITY OF BARRIE	June 21, 2021	ST
2.	AS PER REVISED GRADING PLAN	August 13, 2021	ST
3.	AS PER CITY COMMENTS	January 25, 2022	ST
4.	AS PER METROLINE COMMENTS & REVISED GRADING PLAN	February 25, 2022	ST
5.	SUBMITTED TO THE CITY OF BARRIE	May 13, 2022	ST

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LANDSCAPE LAYOUT PLAN



- GENERAL LEGEND**
- STREET TREES (D12-426)
 - DECIDUOUS TREES (L-2)
 - CONIFERS (L-2)
 - SHRUBS (L-2)
 - VINES (L-2)
 - PERENNIALS
 - ORNAMENTAL GRASSES
 - 8" DEEP PEBBLE ROCKS MAX. 2" DIA. ON FILTER FABRIC (270R)
 - PLANT BED WITH COMMERCIAL ALUMINUM PERMALOC PROLINE LANDSCAPE EDGING MIN. 6" DEPTH.
 - ACOUSTICAL FENCE BSD-1200 (L-4).
 - 2.43m CHAIN LINK FENCE BSD-1211 (L-4).
 - 1.5m ORNAMENTAL FENCE (L-4).
 - PRIVACY FENCE (SUBDIVISION - D12-426).
 - PRIVACY FENCE BSD-1205 (L-1).
 - BENCH (L-6)
 - LITTER RECEPTACLE (L-6)
 - PICNIC TABLE (L-6)
 - OUTDOOR FITNESS STATIONS ON CONCRETE PADS AND RUBBER MULCH (L-5)
 - BIKE RACK (L-6)
 - ROOT BARRIER (L-3)
 - SOD
 - NATIVE SEED MIX (L-2)

PRATT HANSEN GROUP INC.

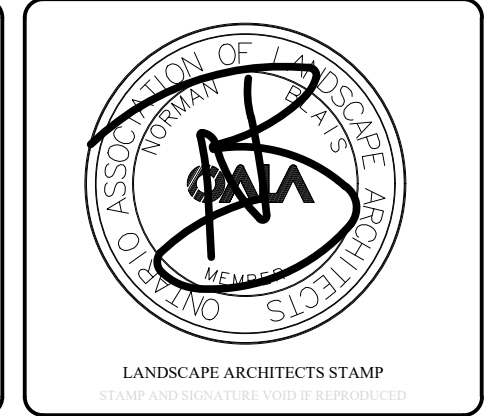
CLIENT NAME

PROJECT LEGAL DESCRIPTION

BASE INFORMATION PROVIDED BY:
The Jones Consulting Group Ltd.
229 Mapleview Drive East, Unit 1
Barrie, ON L4N 0W5
Phone: (705) 734-2538 ext 294 Fax: (705) 734-1056

BASE PLAN REVISED: October, 2020

Block 598 on Howitt's Gate Draft Plan
Part of Lot 16, Concession 11
City of Barrie, County of Simcoe



JDB ASSOCIATES LTD.

Urban Designers
Landscape Architects
Arborists

274 Burton Ave., Suite 1201
Barrie, Ontario
L4N 5W4

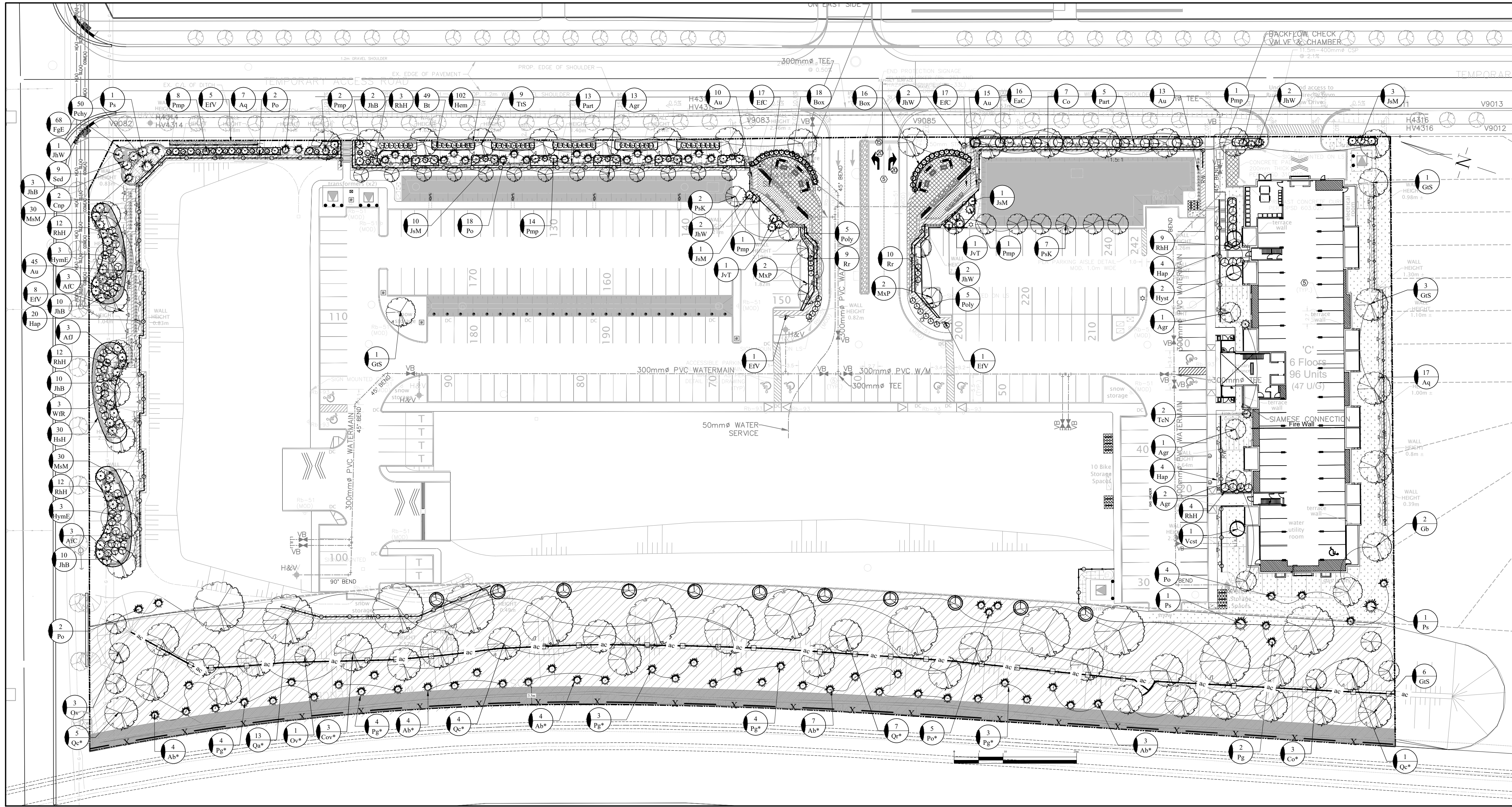
Fax: 705-722-5660
Tel: 705-722-6278

Bistro 6 West ELEMENTS

723 Mapleview Dr. E
City of Barrie

LANDSCAPE LAYOUT PLAN

SCALE:	DATE:	DESIGNED BY:	REVIEWED BY:
1 : 500		ST	NB
CITY FILE No. D11-004-2021	OUR FILE REF. # 25-20	DRAWN BY: ST	L-1



UPLAND PLANTING ZONE
 NO-MOW ZONE (INCLUDING ACCESS ROAD)
 APPROXIMATELY 6,700 sqm (+/- MEASUREMENTS TO BE TAKEN ON SITE)

SIMCOE COUNTY NATIVE UPLAND MIXTURE
 2% NEW ENGLAND ASTER (*Aster novae-angliae*)
 12% BLACK EYED SUSAN (*Rudbeckia hirta*)
 20% SAND DROPSIED (*Sporobolus corymbosus*)
 20% CANADA WILD RYE (*Elymus canadensis*)
 4% CANADA GOLDEN ROD (*Solidago canadensis*)
 5% COMMON MILKWEED (*Asclepias syriaca*)
 1% WILD BERGAMOTTE (*Monarda fistulosa*)
 1% SMOOTH BLUE ASTER (*Aster laevis*)
 15% LITTLE BLUE STEM (*Andropogon scoparius*)
 20% INDIANGRASS (*Sorghastrum nutans*)

SEEDING RATE - 30kg PER HECTARE
 SUPPLIED BY - OSC SEEDS 1-519-886-0657
 ANNUAL RYE NURSE CROP TO BE APPLIED AT TIME OF NATIVE UPLAND PLANTING MIXTURE AT A RATE OF 12kg PER HECTARE. REFER TO TERRASEEDING NOTES AND MULCH APPLICATION SPECIFICATIONS IN THIS BOX FOR FURTHER DETAILS.
TERRASEEDING APPLICATION SPECIFICATIONS
 ECOBLANKET OR TERRASEEDING TACTIFER / FLEXGARD HYDROMULCH SHALL BE APPLIED AS PER MANUFACTURER SPECIFICATIONS. SEE NOTES ON THIS PAGE.

TOP SOIL:
 TOPSOIL SHALL BE PROVIDED TO A MINIMUM DEPTH OF 0.45m FOR TERRESTRIAL AREAS EXCEPT THE ACCESS ROAD BASE (5cm) AND MINIMUM 0.35m FOR TEMPORARY UNDERWATER AREAS.
 TOPSOIL QUALITY SHALL BE AS PER OPSS 570. IT SHALL BE TESTED BY AN INDEPENDENT LABORATORY PRIOR TO INSTALLATION.

SEEDING AND TOP SOIL NOTES

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 PROPOSED 3:1 SLOPE (MAX.)
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BASE INFO/ UTILITIES LEGEND
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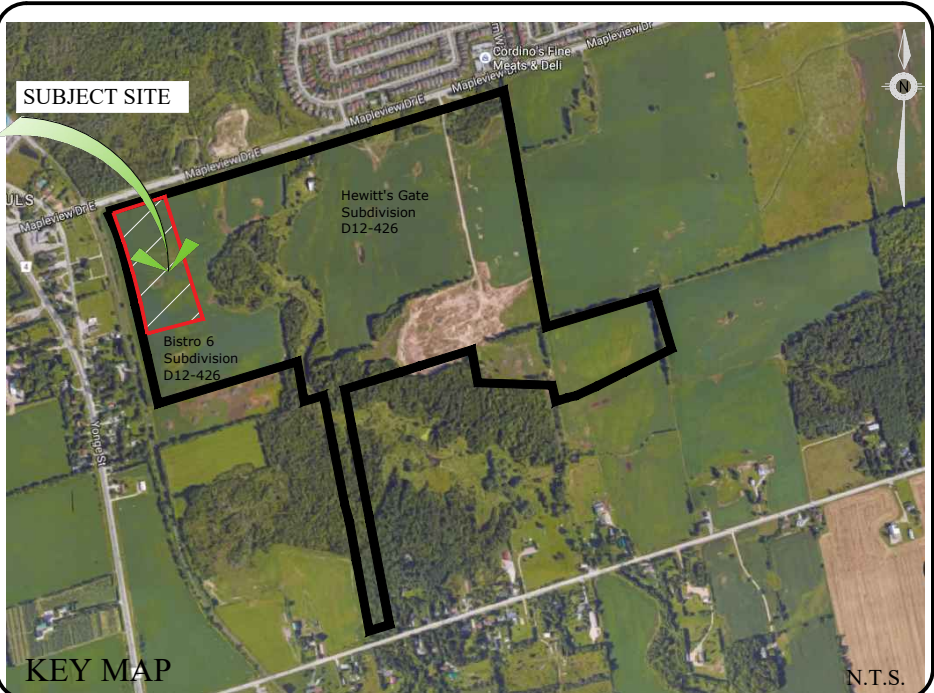
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LANDSCAPE PLAN

CODE	QNTY	COMMON NAME	BOTANICAL NAME	SIZE	FORM	SPACING	DETAIL	NOTES
DECIDUOUS TREES								
AfC	6	CELEBRATION MAPLE	<i>Acer x freemanii 'Celebration'</i>	60 mm	W.B.	9.0 m o/c	BSD-1310	Full Form
AD	3	AUTUMN BLAZE MAPLE	<i>Acer x freemanii 'Jeffersred'</i>	60 mm	W.B.	9.0 m o/c	BSD-1310	Full Form
AgC	8	AUTUMN BRILLIANCE SERVICEBERRY	<i>Amelanchier x grandiflora "Cumulus"</i>	60 mm	W.B.	9.0 m o/c	BSD-1310	Full Form
AgR	20	PAPERBARK MAPLE	<i>Acer griseum</i>	60 mm	W.B.	6.0 m o/c	BSD-1310	Full Form
Bp	1	PAPERBARK MAPLE	<i>Betula papyrifera</i>	60 mm	W.B.	9.0 m o/c	BSD-1310	Clump form
Co	7	COMMON HACKBERRY	<i>Celtis occidentalis</i>	60 mm	W.B.	9.0 m o/c	BSD-1310	Full Form
Fsa	2	FERNLEAF BEECH	<i>Fagus sylvatica 'Asplenifolia'</i>	60 mm	W.B.	9.0 m o/c	BSD-1310	Full Form
Fsr	2	RIVERS BEECH	<i>Fagus sylvatica 'Riversii'</i>	60 mm	W.B.	9.0 m o/c	BSD-1310	Full Form
Gb	2	MAIDENHAIR TREE	<i>Ginkgo biloba</i>	60 mm	W.B.	9.0 m o/c	BSD-1310	Full Form
Gbf	17	COLUMNAR MAIDENHAIR TREE	<i>Ginkgo biloba 'Fastigiata'</i>	60 mm	W.B.	4.0 m o/c	BSD-1310	Full Form
GS	12	SKYLINE HONEYLOCUST	<i>Gleditsia triacanthos var. inermis 'Skyline'</i>	60 mm	W.B.	9.0 m o/c	BSD-1310	Full Form
Mag	2	ALEXANDRINA MAGNOLIA	<i>Magnolia x soulangiana 'Alexandrina'</i>	200 cm	w.b.	as shown	BSD-1310	Full Form
MxP	4	RED SPLENDOR CRABAPPLE	<i>Malus 'Red Splendor'</i>	60 mm	W.B.	7.0 m o/c	BSD-1310	Full Form
PsK	9	KWANZAN FLOWERING CHERRY	<i>Prunus serrulata 'Kwanzan'</i>	60 mm	W.B.	6.0 m o/c	BSD-1310	Full Form
Ov	3	IRONWOOD	<i>Ostrya virginiana</i>	60 mm	W.B.	7.0 m o/c	BSD-1310	Full Form
QrF	4	COLUMNAR ENGLISH OAK	<i>Quercus rubra 'Fastigiata'</i>	60 mm	W.B.	5.0 m o/c	BSD-1310	Full Form
Ts	19	STERLING SILVER LINDEN	<i>Tilia tomentosa 'Sterling Silver'</i>	60 mm	W.B.	9.0 m o/c	BSD-1310	Full Form

CODE	QNTY	COMMON NAME	BOTANICAL NAME	SIZE	FORM	SPACING	DETAIL	NOTES
BERM PLANTING								
Co*	3	COMMON HACKBERRY	<i>Celtis occidentalis</i>	60 mm	W.B.	9.0 m o/c	BSD-1311	Full Form
Cov*	3	SHAGBARK HICKORY	<i>Carya ovata</i>	60 mm	W.B.	9.0 m o/c	BSD-1311	Full Form
Ov*	1	IRONWOOD	<i>Ostrya virginiana</i>	60 mm	W.B.	7.0 m o/c	BSD-1311	Full Form
Qa*	13	WHITE OAK	<i>Quercus alba</i>	60 mm	W.B.	15.0 m o/c	BSD-1311	Spring planting/ Soil pH<7.5
Qc*	10	SCARLET OAK	<i>Quercus coccinea</i>	60 mm	W.B.	9.0 m o/c	BSD-1310	Full Form/Acidic soil
Qr*	7	RED OAK	<i>Quercus rubra</i>	60 mm	W.B.	5.0 m o/c	BSD-1311	Full Form

CODE	QNTY	COMMON NAME	BOTANICAL NAME	SIZE	FORM	SPACING	DETAIL	NOTES
CONIFEROUS TREES								
Cnp	2	WEEPING FALSE CYPRESS	<i>Chamaecyparis nootkatensis 'Pendula'</i>	200cm	w.b.	As Per Drawing	BSD-1312	Full form / Do not cut leader
Pg	2	WHITE SPRUCE	<i>Picea glauca</i>	200cm	w.b.	5m o/c	BSD-1312	Full form / Do not cut leader
Po	26	SERBIAN SPRUCE	<i>Picea omorika</i>	200cm	w.b.	As Per Drawing	BSD-1312	Full form / Do not cut leader
Ps	4	EASTERN WHITE PINE	<i>Pinus strobus</i>	200cm	w.b.	6m o/c	BSD-1312	Full form / Do not cut leader

CODE	QNTY	COMMON NAME	BOTANICAL NAME	SIZE	FORM	SPACING	DETAIL	NOTES
ORNAMENTAL GRASSES								
CaK	11	KARL FOERSTER FEATHER REED GRASS	<i>Calamagrostis arundinacea 'Karl Foerster'</i>	1 gal	pot	0.60 m o/c	n/a	Full form / Container grown
FgE	103	ELDAH'S BLUE FESCUE	<i>Festuca glauca 'Elijah Blue'</i>	1 gal	pot	0.30 m o/c	n/a	Full form / Container grown
Hsh	30	SAPPHIRE FOUNTAIN BLUE OAT GRASS	<i>Helictotrichon sempervirens 'Saphirespride'</i>	1 gal	pot	0.60 m o/c	n/a	Full form / Container grown
Msm	60	MALEPARTUS MAIDEN GRASS	<i>Miscanthus sinensis 'Malepartus'</i>	1 gal	pot	0.60 m o/c	n/a	Full form / Container grown

SMALLER TREE SIZE RECOMMENDED TO BE PLANTED ON THE BERM (16 gal pot DECIDUOUS AND 1.0m HT 7gal pot CONIFERS) AT A 2.5:1 RATIO (2.5 small trees instead of 1 regular size tree shown on the plant list)

CODE	QNTY	COMMON NAME	BOTANICAL NAME	SIZE	FORM	SPACING	DETAIL	NOTES
DECIDUOUS SHRUBS								
Bt	49	ROSE GLOW BARBERRY	<i>Berberis thunbergii 'Rose Glow'</i>	60 cm	3 gal	0.80 m o/c	BSD-1314	Full form / Container grown
EaC	16	DWARF WINGED BURNING BUSH	<i>Euonymus alatus 'Compactus'</i>	60 cm	3 gal	1.60 m o/c	BSD-1314	Full form / Container grown
East	4	DWARF BURNING BUSH (standard)	<i>Euonymus alatus 'Compactus'</i>	125 cm stem	7 gal	As Per Drawing	BSD-1314	Tree form / Container grown
HymE	6	ENDLESS SUMMER HYDRANGEA	<i>Hydrangea macrophylla 'Bailmer'</i>	60 cm	3 gal	0.9m o/c	BSD-1314	Full form / Container grown
Hyst	8	PEEGEE HYDRANGEA (standard)	<i>Hydrangea paniculata 'Grandiflora'</i>	150 cm stem	7 gal	As Per Drawing	BSD-1314	Tree form / Container grown
MagS	11	SUSAN MAGNOLIA	<i>Magnolia x 'Susan'</i>	60 cm	3 gal	2.5m o/c	BSD-1314	Full form / Container grown
Mfst	1	TINA CRABAPPLE	<i>Malus sargentii 'Tina'</i>	150 cm stem	10 gal	As Per Drawing	BSD-1314	Full form / Container grown
RhH	70	HAAGA RHODODENDRON	<i>Rhododendron x marjatta 'Haaga'</i>	50cm	3 gal.	1.30 m o/c	BSD-1314	Full form / Container grown
Rr	19	NEARLY WILD ROSE	<i>Rosa rugosa 'Nearly Wild'</i>	60 cm	3 gal	0.90m o/c	BSD-1314	Full form / Container grown
Sylst	2	WEEPING LILAC	<i>Syringa juliana 'Hers'</i>	150 cm stem	7 gal	As Per Drawing	BSD-1314	Full form / Container grown
SyK	6	MISS KIM LILAC	<i>Syringa patula 'Miss Kim'</i>	60 cm	3 gal	1.0m o/c	BSD-1314	Full form / Container grown
Vest	3	KOREAN PRINCE VIBURNUM (standard)	<i>Viburnum carlesii</i>	150 cm stem	7 gal	As Per Drawing	BSD-1314	Tree form / Container grown
WR	3	RED SPICE WEIGELA	<i>Weigela florida 'Red Prince'</i>	60 cm	3 gal	1.2m o/c	BSD-1314	Full form / Container grown

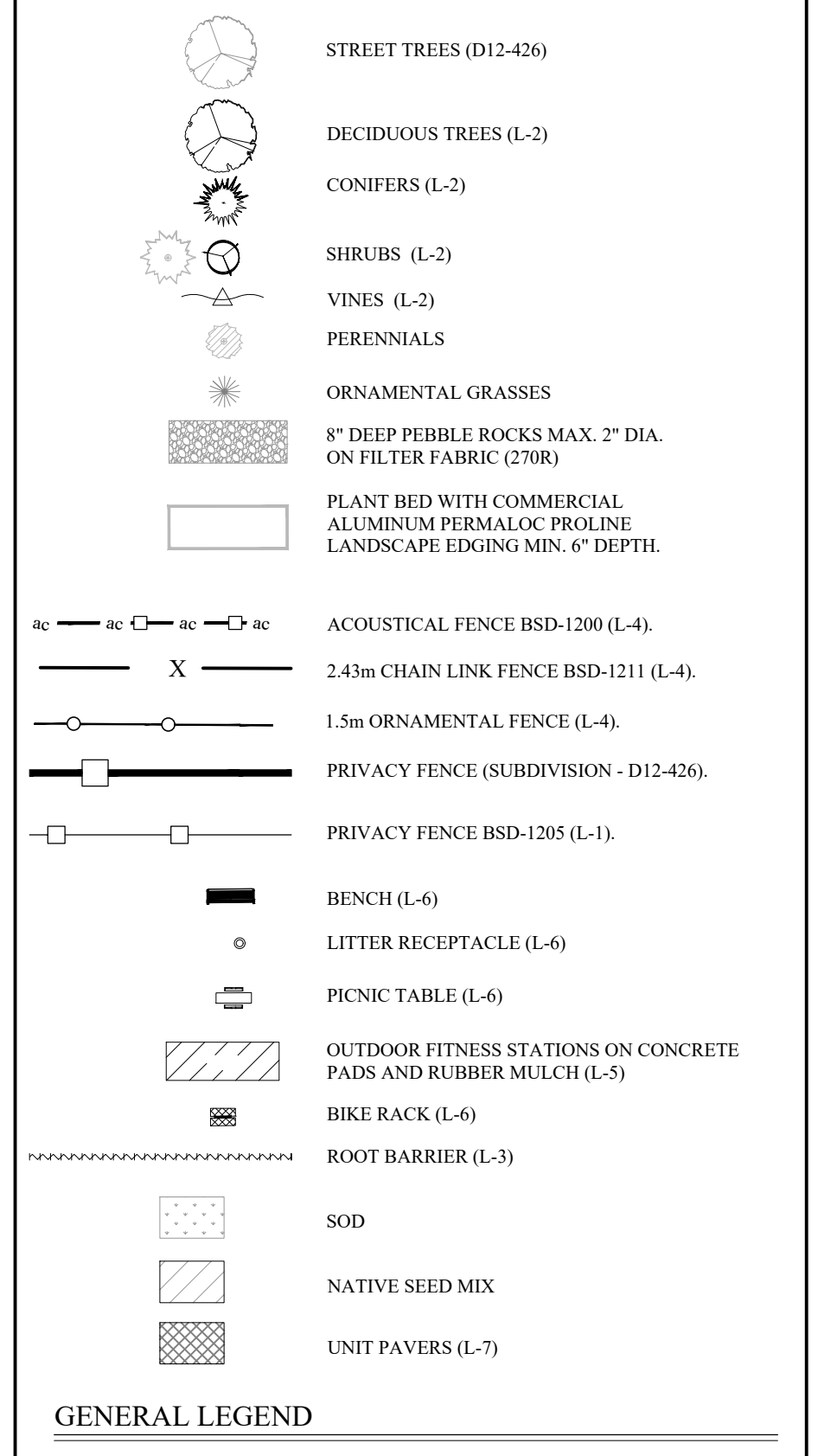
CODE	QNTY	COMMON NAME	BOTANICAL NAME	SIZE	FORM	SPACING	DETAIL	NOTES
VINES								
Aq	42	CHOCOLATE VINE	<i>Aquebia quinata</i>	60cm	3 gal.	as shown	BSD-1314	[with trellis on the wall]
EvV	16	VARIEGATED WINTERCREEPER	<i>Euonymus fortunei 'Variegatus'</i>	60cm	3 gal.	as shown	BSD-1314	base of wall
Hap	28	CLIMBING HYDRANGEA	<i>Hydrangea anomala subsp. petiolaris</i>	60cm	3 gal.	4.0 m o/c	BSD-1314	shade only, base of the wall
Part	18	BOSTON IVY	<i>Parthenocissus tricuspidata</i>	60cm	3 gal.	as shown	BSD-1314	base of the walls
Poly	10	SILVER LACE	<i>Polygonum aubertii</i>	60cm	3 gal.	as shown	BSD-1314	top of the walls

CODE	QNTY	COMMON NAME	BOTANICAL NAME	SIZE	FORM	SPACING	DETAIL	NOTES
EVERGREENS								
Box	34	GREEN MOUNTAIN BOXWOOD	<i>Buxus x 'Green Mountain'</i>	50cm	3 gal.	0.45 m o/c	BSD-1314	Full form / Container grown
JhD	45	BLUE CHIP JUNIPER	<i>Juniperus horizontalis 'Blue Chip'</i>	50cm	3 gal.	0.90 m o/c	BSD-1314	Full form / Container grown
JhL	2	LIMEGLOW JUNIPER	<i>Juniperus horizontalis 'Limeglow'</i>	45cm	3 gal.	3.0 m o/c	BSD-1314	Full form / Container grown
JhW	2	BLUE RUG JUNIPER	<i>Juniperus horizontalis 'Wiltonii'</i>	50cm	3 gal.	0.90 m o/c	BSD-1314	Full form / Container grown
JmM	15	MOFFET JUNIPER	<i>Juniperus scopulorum 'Moffetti'</i>	150cm	w.b.	0.90 m o/c	BSD-1314	Full form / Container grown
JvT	2	TAYLOR JUNIPER	<i>Juniperus virginiana 'Taylor'</i>	150cm	w.b.	0.90 m o/c	BSD-1314	Full form / Container grown
Pmp	28	MUGHO PINE	<i>Pinus mugo var. pumilio</i>	60cm	7 gal.	1.50 m o/c	BSD-1314	Full form / Container grown
TcN	20	DWARF JAPANESE YEW	<i>Taxus cuspidata 'Nana'</i>	50cm	3 gal.	1.75m o/c	BSD-1314	Full form / Container grown
JeP	3	GOLD STAR PITZER JUNIPER	<i>Juniperus x pfitzeriana 'Aurea'</i>	50cm	3 gal.	1.80 m o/c	BSD-1314	Full form / Container grown

CODE	QNTY	COMMON NAME	BOTANICAL NAME	SIZE	FORM	SPACING	DETAIL	NOTES
PERENNIALS								
Au	140	ROCK CRESS	<i>Aubrieta 'Royal Blue'</i>	2 gal	pot	0.5 m o/c	n/a	'Royal' cultivar grows over the wall
Hem	126	STELLA D'ORO DAYLILY	<i>Hemerocallis x 'Stella D'Oro'</i>	1 gal	pot	0.60 m o/c	n/a	Full form / Container grown

CODE	QNTY	COMMON NAME	BOTANICAL NAME	SIZE	FORM	SPACING	DETAIL	NOTES
GROUND COVER								
EIC	34	EUONYMUS-WINTER CREEPER	<i>Euonymus fortunei 'Coloratus'</i>	plug	tray	0.2 m o/c	n/a	Full form / Container grown
Pehy	100	VARIEGATED JAPANESE SPURGE	<i>Pachysandra terminalis 'Variegata'</i>	100 plants	flat	0.15 m o/c	n/a	Full form / Container grown
Sed	18	BIRTHDAY PARTY STONECROP	<i>Sedum x 'Birthday Party'</i>	2 gal	pot	0.30 m o/c	n/a	Full form / Container grown

Plant material density	area	ratio	minimum	proposed
31583	200	deciduous	60mm	158 158
sqm	400	conifers	2m	79 79
	100	shrubs	0.6-1.2m	316 316
	200	evergreens	0.45sp/1.2m lt	158 158



PRATT HANSEN GROUP INC.
 CLIENT NAME
 PROJECT LEGAL DESCRIPTION

BASE INFORMATION PROVIDED BY:
 The Jones Consulting Group Ltd.
 229 Mapleview Drive East, Unit 1
 Barrie, ON L4N 0W5
 Phone: (705) 734-2558 ext 294 Fax: (705) 734-1056
 BASE PLAN REVISED: October, 2020

Block 598 on Hewitt's Gate Draft Plan
 Part of Lot 16, Concession 11
 City of Barrie, County of Simcoe



JDB ASSOCIATES LTD.
 Urban Designers
 Landscape Architects
 Arborists
 274 Barton Ave., Suite 1201
 Barrie, Ontario
 L4N 5W4
 Fax: 705-722-5660
 Tel: 705-722-6278

Bistro 6 West ELEMENTS
 723 Mapleview Dr. E
 City of Barrie

SCALE:	DATE:	DESIGNED BY:	REVIEWED BY:
1:500		SKT	NB
CITY FILE No. D11-004-2021	OUR FILE REF.# 25-20	DRAWN BY: SKT	L-2

DO NOT PRUNE LEADERS, TREES WITH DAMAGED OR MISSING LEADERS WILL NOT BE ACCEPTED

TREE CROWN NOTES:

- REMOVE AT TIME OF PLANTING ANY DEAD, BROKEN OR DAMAGED LIMBS INCLUDING INTERFERING BRANCHES, DOUBLE LEADERS AND NARROW BRANCH UNIONS
- REMOVE ALL LABELS AND TAGS AT TIME OF PLANTING
- TREES ARE TO BE PLANTED PLUM AND HAVE BOTH FULL FORM AND HEALTHY CANOPY STRUCTURE. ANY TREES WHICH DO NOT MEET THIS CRITERIA AND/OR HAVE WEAK BRANCHING STRUCTURE, DO NOT HAVE STRAIGHT TRUNKS OR HAVE UNBALANCED CROWNS WILL NOT BE ACCEPTED

TREES ARE TO BE STAKED WITH (2) TWO SOFTWOOD STAKES (25x30x3000mm) EXTENDING 300mm INTO FIRM GROUND AT AN ANGLE AND SECURED VERTICALLY PRIOR TO BACKFILLING THE TREE PIT. SECURE USING #12 GAUGE GALVANIZED WIRE ENCASED IN 12mm DIAMETER REINFORCED RUBBER HOSE (ENSURING WIRE ENDS DO NOT PROTRUDE) OR APPROVED EQUIVALENT. STAKING HARDWARE TO BE REMOVED AFTER ONE GROWING SEASON

BURLAP WRAP TREE FROM TOP OF ROOT BALL TO FIRST BRANCH UNION AND SECURE WITH BIODEGRADABLE TIES. REMOVE AFTER ONE GROWING SEASON

KEEP MULCH 50-100mm AWAY FROM TRUNK

FORM A 100mm HIGH EARTH SAUCER BEYOND THE EDGE OF THE ROOT BALL AND COVER WITH 100mm OF SHREDED CEDAR MULCH

LOOSEN OR SCARIFY THE INSIDE SURFACE OF THE PLANTING HOLE PRIOR TO INSTALLATION OF THE TREE

IMPORTED FRIBBLE SCREENED LOAM TOPSOIL COMPACTED TO ELIMINATE AIR POCKETS

PLACE ROOT BALL ON UNEXCAVATED OR TAMPED SOIL

- ALL CALIPER TREE PLANTING SHALL HAVE A MINIMUM 600mm DIAMETER ROOT BALL
- CUT AND REMOVE ALL WIRE, ROPE AND BURLAP FROM THE TOP 150mm OF THE ROOT BALL AT THE TIME OF PLANTING
- FOR POORLY DRAINED OR COMPACTED SOILS THE ROOT BALL SHALL BE PLACED SO THAT THE ROOT COLLAR IS A MAXIMUM OF 100mm ABOVE THE FINISHED GRADE. FOR ALL OTHER INSTALLATIONS THE ROOT COLLAR SHALL BE AT OR 50mm ABOVE FINISHED GRADE
- ALL TREES WITHIN 3m OF A SIDEWALK OR DRIVEWAY MUST ALSO HAVE A COORDINATED INSTALLATION OF AN APPROVED ROOT BARRIER INSTALLED IN ADDITION TO THE TREE FOR ALL STREETScape APPLICATIONS
- ALL TYPING AND BURLAP MUST BE BIODEGRADABLE (UNTREATED)
- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED

APPROVED
DATE: June 11/15
BY: [Signature]
DIRECTOR OF ENGINEERING

REV No. 4 DATE: JUNE 2015
SCALE: N.T.S.
BSD-1310
FORMERLY BSD-29

The City of BARRIE
STANDARD DETAIL

DECIDUOUS TREE PLANTING DETAIL

DO NOT PRUNE LEADERS, TREES WITH DAMAGED OR MISSING LEADERS WILL NOT BE ACCEPTED

TREE CROWN NOTES:

- REMOVE AT TIME OF PLANTING ANY DEAD, BROKEN OR DAMAGED LIMBS INCLUDING INTERFERING BRANCHES, DOUBLE LEADERS AND NARROW BRANCH UNIONS
- REMOVE ALL LABELS AND TAGS AT TIME OF PLANTING
- BINDING AND TIES MUST BE REMOVED IMMEDIATELY FOLLOWING THE INSTALLATION OF THE TREE
- TREE HEIGHT IS MEASURED FROM THE FIRST WHORL AND NOT THE TOP OF LEADERS
- TREES ARE TO BE PLANTED PLUM AND HAVE BOTH FULL FORM AND HEALTHY CANOPY STRUCTURE. ANY TREES WHICH DO NOT MEET THIS CRITERIA AND/OR HAVE WEAK BRANCHING STRUCTURE, DO NOT HAVE STRAIGHT TRUNKS OR HAVE UNBALANCED CROWNS WILL NOT BE ACCEPTED

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BURLAP WRAP TREE FROM TOP OF ROOT BALL TO FIRST BRANCH UNION AND SECURE WITH BIODEGRADABLE TIES. REMOVE AFTER ONE GROWING SEASON

KEEP MULCH 50-100mm AWAY FROM TRUNK

FORM A 100mm HIGH EARTH SAUCER BEYOND THE EDGE OF THE ROOT BALL AND COVER WITH 100mm OF SHREDED CEDAR MULCH

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- CUT AND REMOVE ALL WIRE, ROPE AND BURLAP FROM THE TOP 150mm OF THE ROOT BALL AT THE TIME OF PLANTING
- EXCAVATION TO BE BACKFILLED WITH IMPORTED FRIBBLE SCREENED TOPSOIL WHICH IS TO BE FIRMLY COMPACTED TO ELIMINATE AIR POCKETS AND PREVENT SETTLEMENT. EXPOSED SOIL SHALL BE RE-SEEDDED OR IN A RESTORATION ENVIRONMENT SEEDBED WITH A SIMCO COUNTY NATIVE SEED MIX AND ANNUAL RYE GRASS CROP
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DATE: June 11/15
BY: [Signature]
DIRECTOR OF ENGINEERING

REV No. 4 DATE: JUNE 2015
SCALE: N.T.S.
BSD-1312
FORMERLY BSD-30

The City of BARRIE
STANDARD DETAIL

CONIFEROUS TREE PLANTING DETAIL

DO NOT PRUNE LEADERS, TREES WITH DAMAGED OR MISSING LEADERS WILL NOT BE ACCEPTED

TREE CROWN NOTES:

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APPROVED
DATE: June 11/15
BY: [Signature]
DIRECTOR OF ENGINEERING

REV No. 1 DATE: JUNE 2015
SCALE: N.T.S.
BSD-1311

The City of BARRIE
STANDARD DETAIL

DECIDUOUS TREE PLANTING ON SLOPE

DO NOT PRUNE LEADERS, TREES WITH DAMAGED OR MISSING LEADERS WILL NOT BE ACCEPTED

TREE CROWN NOTES:

- REMOVE AT TIME OF PLANTING ANY DEAD, BROKEN OR DAMAGED LIMBS INCLUDING INTERFERING BRANCHES, DOUBLE LEADERS AND NARROW BRANCH UNIONS
- REMOVE ALL LABELS AND TAGS AT TIME OF PLANTING
- BINDING AND TIES MUST BE REMOVED IMMEDIATELY FOLLOWING THE INSTALLATION OF THE TREE
- TREE HEIGHT IS MEASURED FROM THE FIRST WHORL AND NOT THE TOP OF LEADERS
- TREES ARE TO BE PLANTED PLUM AND HAVE BOTH FULL FORM AND HEALTHY CANOPY STRUCTURE. ANY TREES WHICH DO NOT MEET THIS CRITERIA AND/OR HAVE WEAK BRANCHING STRUCTURE, DO NOT HAVE STRAIGHT TRUNKS OR HAVE UNBALANCED CROWNS WILL NOT BE ACCEPTED

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- EXCAVATION TO BE BACKFILLED WITH IMPORTED FRIBBLE SCREENED TOPSOIL WHICH IS TO BE FIRMLY COMPACTED TO ELIMINATE AIR POCKETS AND PREVENT SETTLEMENT. EXPOSED SOIL SHALL BE RE-SEEDDED OR IN A RESTORATION ENVIRONMENT SEEDBED WITH A SIMCO COUNTY NATIVE SEED MIX AND ANNUAL RYE GRASS CROP
- ALL TYPING AND BURLAP MUST BE BIODEGRADABLE (UNTREATED)
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APPROVED
DATE: June 11/15
BY: [Signature]
DIRECTOR OF ENGINEERING

REV No. 1 DATE: JUNE 2015
SCALE: N.T.S.
BSD-1313

The City of BARRIE
STANDARD DETAIL

CONIFEROUS TREE PLANTING ON SLOPE

1. THE CONTRACTOR SHALL REVIEW ALL INFORMATION IN THE DRAWINGS, DETAILS & SPECIFICATIONS FOR THIS PROJECT, AND REPORT ANY DISCREPANCY OR SUBSTITUTION TO THE CONTRACT ADMINISTRATOR IN WRITING PRIOR TO COMMENCEMENT OF WORK.

2. ALL PLANTING MATERIAL AND OPERATIONS TO MEET OR EXCEED THE HORTICULTURAL STANDARDS OF THE CANADIAN NURSERY LANDSCAPE ASSOCIATION AND LANDSCAPE ONTARIO. ALL PLANT MATERIAL TO BE NO. 1 GRADE NURSERY STOCK. THE CITY OF BARRIE RETAINS THE RIGHT TO REFUSE ANY UNSATISFACTORY STOCK.

3. SOD TO BE CANADA NO. 1 NURSERY SOD, MEETING THE NURSERY SOD GROWERS ASSOCIATION OF ONTARIO STANDARDS. ALL AREAS TO RECEIVE A MINIMUM 200mm DEPTH OF TOPSOIL AND SOD UNLESS OTHERWISE INDICATED. SEE DRAWINGS AND SPECIFICATIONS FOR AREAS TO BE MULCHED OR HYDRO-SEEDED.

4. CONIFEROUS TREES SHALL HAVE A STRAIGHT CENTRAL LEADER AND DENSELY BRANCHED TO WITHIN 300mm OF THE TOP OF ROOT BALL. HEIGHT OF CONIFEROUS TREES IS DEFINED AS THE DISTANCE BETWEEN THE TOP OF ROOT BALL AND THE FIRST WHORL, NOT LEADER HEIGHT, REFER TO BSD-1312 AND BSD-1313.

5. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UTILITIES AND IS RESPONSIBLE FOR ANY DAMAGE TO SERVICES, EXISTING VEGETATION, OR ANY OTHER FEATURES TO BE RETAINED.

6. THE CONTRACTOR SHALL STAKE OUT ALL PLANTING LOCATIONS FOR APPROVAL BY THE CONTRACT ADMINISTRATOR, AND/OR CITY STAFF PRIOR TO PLANTING.

7. FOR ALL LANDSCAPE PLANS, ALL DIMENSIONS ARE TO BE SHOWN IN MILLIMETRES UNLESS OTHERWISE INDICATED.

8. ALL MASS PLANTINGS OF CONIFERS AND SHRUBS SHALL BE IN CONTINUOUS BEDS AND MULCHED WITH SHREDED CEDAR OR APPROVED EQUIVALENT.

9. SCHEDULE AND PERFORM OPERATIONS FOR OPTIMUM PLANTING CONDITIONS, AND TAKE WHATEVER MEASURES NECESSARY TO ENSURE HEALTHY, VIGOROUS GROWTH.

10. ALL PLANT MATERIAL AND WORKMANSHIP WILL BE INSPECTED AND IS UNDER WARRANTY FOR A MINIMUM OF TWO YEARS FROM THE DATE OF WRITTEN ACCEPTANCE. ALL PLANT MATERIAL MUST BE IN A HEALTHY, VIGOROUS GROWING CONDITION SATISFACTORY TO THE CONTRACT ADMINISTRATOR AT THE END OF THE WARRANTY PERIOD, OR TO BE REPLACED AT THE CONTRACTOR'S EXPENSE.

11. WATER AT TIME OF PLANTING AND WHENEVER DEEMED NECESSARY TO MAINTAIN THE TREES IN A HEALTHY CONDITION.

12. INSTALLATION OF THE PLANT MATERIAL PRIOR TO INSPECTION BY THE CITY OF BARRIE WILL BE THE CONTRACTOR'S RESPONSIBILITY. THE CITY OF BARRIE RESERVES THE RIGHT TO WITHDRAW ANY PLANTS, WHETHER INSTALLED OR NOT, WHICH DO NOT CONFORM TO THE SPECIFICATIONS AND/OR SITE DRAWINGS. REMOVE ALL RELATED PLANTS FROM THE SITE IMMEDIATELY. DO NOT REMOVE ANY LABELS FROM PLANTS UNTIL THE PLANTS HAVE BEEN INSPECTED AND APPROVED BY THE LANDSCAPE ARCHITECT.

13. ALL PLANT MATERIAL WHICH CANNOT BE PLANTED IMMEDIATELY UPON ARRIVAL ON SITE SHALL BE PROPERLY HEeled IN OR WELL PROTECTED WITH SOIL OR SIMILAR MATERIALS TO PREVENT DRYING OUT, AND SHALL BE KEPT MOST UNTIL COMMENCEMENT OF PLANTING.

14. ALL NEW WORK TO BLEND NEATLY AND SMOOTHLY WITH EXISTING CONDITIONS.

15. NO GRADING OR SODDING SHALL BE DONE WITHIN THE LIMIT OF PRESERVATION AREAS.

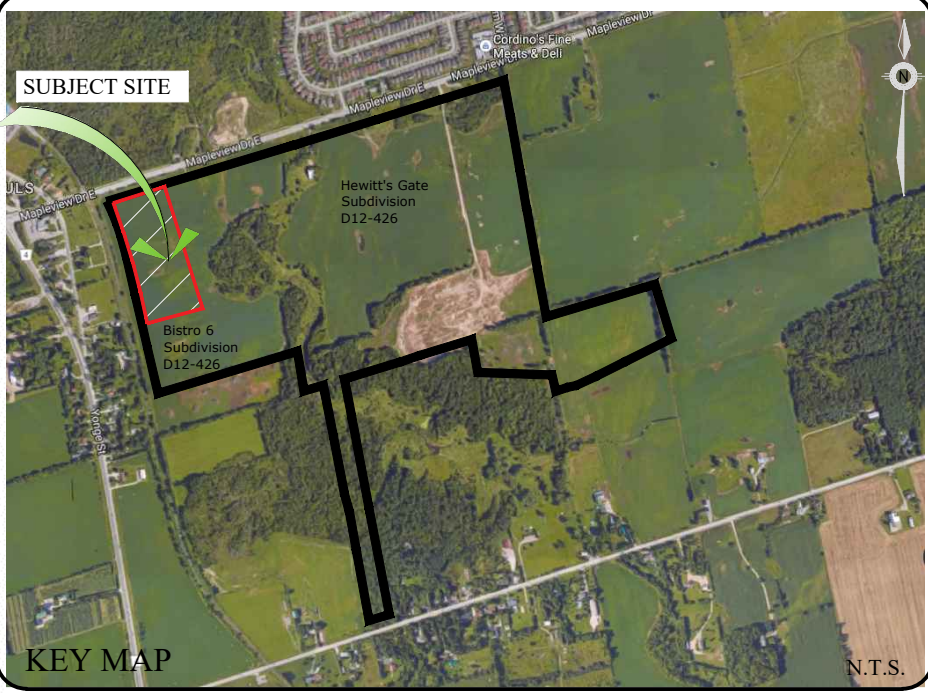
16. IN THE EVENT OF A DISCREPANCY BETWEEN A PLANT LIST AND DRAWINGS, THE DRAWING WILL BE ASSUMED TO BE CORRECT.

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DATE: June 11/15
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REV No. 1 DATE: JUNE 2015
SCALE: N.T.S.
BSD-1320
FORMERLY BSD-46

The City of BARRIE
STANDARD DETAIL

GENERAL PARK PLANTING NOTES



GENERAL NOTES

CONTRACTOR IS RESPONSIBLE FOR ALL LOCATES INCLUDING ALL UNDERGROUND SERVICES PRIOR TO ANY EXCAVATION OR INSTALLATIONS. THE CONTRACTOR IS REQUIRED TO NOTIFY THE VARIOUS UTILITY COMPANIES 48 HOURS PRIOR TO THE COMMENCEMENT OF ANY WORK.

ANY ACCOMPANYING DOCUMENTATION RELATING TO THE LANDSCAPE PLAN AND/OR PRESERVATION PLAN SUCH AS TENDER DOCUMENTS AND CHANGE NOTICES ARE TO BE ENDORSED BY J.D.B. ASSOCIATES LIMITED PRIOR TO THE BEGINNING OF ANY SITE WORKS. IN THE EVENT THAT A DISCREPANCY THE DRAWING SHALL BE ASSUMED CORRECT.

IT IS THE RESPONSIBILITY OF THE PERSON OR PERSONS RESPONSIBLE FOR THE CONSTRUCTED WORKS TO NOTIFY THE LANDSCAPE ARCHITECT WHEN PREPARED FOR ANY REQUIRED INSPECTIONS AND SIGN OFFS.

SCHEDULED MEETINGS SHALL TAKE PLACE AT THE CLOSEST MUTUALLY CONVENIENT TIME.

No.	REVISION	DATE	APRVD.
1.	SUBMITTED TO THE CITY OF BARRIE	June 21, 2021	SJT
2.	AS PER REVISED GRADING PLAN	August 13, 2021	SJT
3.	AS PER CITY COMMENTS	January 25, 2022	SJT
4.	AS PER METROPLAN COMMENTS & REVISED GRADING PLAN	February 25, 2022	SJT
5.	SUBMITTED TO THE CITY OF BARRIE	May 13, 2022	SJT

SITE CONDITIONS

- VERIFY ALL EXISTING SITE CONDITIONS AND REPORT ANY DISCREPANCIES BEFORE COMMENCING WORK.
- THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UTILITIES AND IS RESPONSIBLE FOR ANY DAMAGE TO SERVICES, EXISTING VEGETATION OR ANY OTHER FEATURES TO BE RETAINED.
- FOR ALL AREAS OF DISTURBANCE: NATIVE TOPSOIL IS TO BE STRIPPED, STOCK PILED AND REPLACED TO A MINIMUM DEPTH OF 300mm.

PLANT MATERIAL REQUIREMENTS

- PLANT MATERIAL LISTED IN THE PLANT SCHEDULE ARE MINIMUM SIZES +/- NURSERY GROWN AND UNIFORM SPECIMENS. NO SUBSTITUTIONS WILL BE PERMITTED WITHOUT WRITTEN APPROVAL FROM THE LANDSCAPE ARCHITECTS.
- DECIDUOUS TREES SHALL HAVE A STRAIGHT CENTRAL LEADER AND WELL BRANCHED 1.5M ABOVE GRADE UNLESS OTHERWISE STATED.
- CONIFEROUS TREES SHALL HAVE A STRAIGHT CENTRAL LEADER AND DENSELY BRANCHED TO WITHIN 0.3m OF THE GROUND.
- ALL PLANTING MATERIAL AND OPERATIONS TO MEET OR EXCEED THE HORTICULTURAL STANDARDS OF THE CANADIAN NURSERY LANDSCAPE ASSOCIATION AND THE HORTICULTURAL TRADES ASSOCIATION. ALL PLANT MATERIAL TO BE NO. 1 GRADE NURSERY STOCK. UNSATISFACTORY STOCK WILL BE REFUSED ON THE SITE.
- SOD TO BE CANADA NO. 1 NURSERY SOD, MEETING ONTARIO SOD GROWERS ASSOCIATION STANDARDS. ALL SOD AREAS TO RECEIVE 200MM DEPTH OF TOPSOIL UNLESS OTHERWISE INDICATED.

PLANTING NOTES

- LOCATIONS FOR PLANT MATERIAL AND PLANTING BEDS ARE TO BE MARKED OR STAKED OUT BY THE CONTRACTOR AND APPROVED BY THE LANDSCAPE ARCHITECT AND MUNICIPAL STAFF PRIOR TO INSTALLATION.
- ALL PLANT MATERIAL WHICH ARE SPECIFIED BY O.C. ON CENTER SPACING ARE TO BE PLANTED AS NOTED IN THE PLANT SCHEDULE.
- IN THE EVENT OF A DISCREPANCY BETWEEN THE PLANT LIST AND DRAWING, THE DRAWING WILL BE ASSUMED TO BE CORRECT.
- ALL MASS PLANTINGS OF SHRUBS SHALL BE IN CONTINUOUS BEDS AND MULCHED AS SPECIFIED.
- ALL TREE PITS SHALL INCLUDE TREATMENT WITH MICORRHIZAL FUNGI OF THE WALLS BEFORE PLANTING (2L OF "MIKE" OR SIMILAR PRODUCT SHALL BE USED FOR EACH 60MM CALIPER TREE)
- ALL TREES ARE TO BE STAKED OR GUY WIRED ACCORDING TO DETAILS PROVIDED. NO ACCESSIBLE OPEN HOLE TREE PITS SHALL BE PERMITTED OVERNIGHT.
- REMOVE BURLAP AND ROPE FROM THE TOP 1/3 OF ROOT BALLS.
- WATER AT TIME OF PLANTING AND WHENEVER DEEMED NECESSARY TO MAINTAIN THE TREES IN A HEALTHY CONDITION.
- ALL PLANT MATERIALS WHICH CAN NOT BE PLANTED IMMEDIATELY UPON ARRIVAL ON SITE SHALL BE PROPERLY HEeled IN OR WELL PROTECTED WITH SOIL OR SIMILAR MATERIALS TO PREVENT DRYING OUT AND SHALL BE KEPT MOST UNTIL COMMENCEMENT OF PLANTING.
- NO ACCESSIBLE OPEN HOLE TREE PITS SHALL BE PERMITTED OVERNIGHT. ALL OPEN PITS SHALL BE ADEQUATELY PROTECTED BY INSNIFILERS OR FILLED IN WITH SOIL PRIOR TO THE END OF EACH PLANTING DAY.
- ALL NEW WORK TO BLEND NEATLY AND SMOOTHLY WITH EXISTING CONDITIONS.

INSPECTION AND WARRANTY

- GIVE TIMELY NOTICE TO THE LANDSCAPE ARCHITECT FOR THE REQUIRED START UP SITE INSPECTION TO REVIEW SITE CONDITIONS AND SCHEDULE FOLLOW UP INSTALLATIONS.
- INSTALLATION OF PLANT MATERIAL PRIOR TO INSPECTION BY THE LANDSCAPE ARCHITECT WILL BE THE CONTRACTOR'S RESPONSIBILITY.
- THE LANDSCAPE ARCHITECT RESERVES THE RIGHT TO REJECT ANY PLANTS, WHETHER INSTALLED OR NOT, WHICH DO NOT CONFORM TO THE SPECIFICATIONS AND/OR SITE DRAWING. REMOVE ALL REJECTED PLANTS FROM THE SITE IMMEDIATELY. DO NOT REMOVE ANY LABELS FROM PLANTS UNTIL PLANTS HAVE BEEN INSPECTED AND APPROVED BY THE LANDSCAPE ARCHITECT.
- ALL PLANT MATERIAL AND WORKMANSHIP WILL BE INSPECTED AND IS UNDER WARRANTY FOR A MINIMUM OF TWO YEARS FROM DATE OF WRITTEN ACCEPTANCE. ALL PLANT MATERIAL MUST BE IN A HEALTHY, VIGOROUS GROWING CONDITION SATISFACTORY TO THE CONTRACT ADMINISTRATOR AT THE END OF THE WARRANTY PERIOD OR BE REPLACED AT THE CONTRACTOR'S EXPENSE.
- FINAL ACCEPTANCE OF THE PROJECT WILL BE CARRIED OUT UPON COMPLETION OF ALL WORK INCLUDED IN THE CONTRACT.

TOPSOIL REQUIREMENTS

- PROVIDE MINIMUM SOIL VOLUME PER TREE AT 0.45m DEPTH FOR STREET TREES (OR ABOVE UTILITIES) AND MAX. 0.9m IN OTHER AREAS.
 - 18" FOR LARGE TREES
 - 12" FOR SMALL TREES
- PREPARED SOIL MIXTURE FOR EACH TREE PITS AND SHRUBS SHALL CONSIST OF HIGH QUALITY SOIL:
 - SIX PARTS OF SANDY LOAM SOIL (50-60% SAND, 20-40% SILT, 0-10% CLAY, 2-5% ORGANIC), WITH A pH OF 7.5+ OR LESS, FREE OF CLAY LUMPS, DEBRIS, TOXIC SUBSTANCES, STONES, WOODY MATERIAL, WEED SEEDS AND GRASS ROOTS
 - ONE PART COARSE PULVERIZED CANADIAN PEAT MOSS
 - ONE PART OF WELL-ROTTED FARM MANURE
- PREPARED SOIL MIXTURE FOR SOD AREAS SHALL CONSIST OF MIN. 20cm HIGH QUALITY SOIL:
 - SIX PARTS OF SANDY LOAM SOIL (50-60% SAND, 20-40% SILT, 0-10% CLAY, 2-5% ORGANIC), WITH A pH OF 7.5+ OR LESS, FREE OF CLAY LUMPS, DEBRIS, TOXIC SUBSTANCES, STONES, WOODY MATERIAL, WEED SEEDS AND GRASS ROOTS

PLANTING NOTES THIS NOTES SHALL BE READ IN CONJUNCTION WITH BSD-1320 ON THIS PAGE

PLANTING DETAILS

1.0 Description:
This work shall consist of furnishing, constructing and maintaining an EcoBlanket to Rexius specifications. EcoBlanket is a ground cover (surface blanket) of the Rexius specified compost/mulch (Erosion Blend) combined with a special additive (EcoBlanket) constructed with a pneumatic blower to control and reduce soil erosion. An EcoBlanket stabilizes the soil, prevents splash, sheet and till erosion, and removes suspended soil particles and contaminants from water moving off the site and into adjacent waterways or storm water conveyance systems. 1.1. This EcoBlanket must be applied by Landsource Organix Ltd., 100 Britannia Road East, Hornby, Ontario L0P 1E0, tollfree 1 877 548 8558 (toll free fax 1 877 548 8559) or equivalent certified EcoBlanket installer. 1.2. Materials must be applied using a pneumatic granular injection system capable of installing at least 15 cubic metres per hour. 1.3. Contractor must have at least 3 years of proven experience in successfully installing EcoBlankets/EM.

2.0 Material:
The EcoBlanket filtering material consists of the Rexius Erosion Blend of compost and mulch materials, according to the Rexius particle sizing specifications, in combination with the Rexius Microblend additive. 2.1. Particle size must meet exact specifications of the Rexius EcoBlanket Erosion Blend material supplied by a certified supplier/installer. 2.2. The compost portion of EcoBlanket shall be derived from well-decomposed organic matter source produced by controlled aerobic (biological) decomposition that has been sanitized through the generation of heat and stabilized to the point that it is appropriate for this particular application. Compost material shall be processed through proper thermophilic composting, meeting the Canadian Council of Ministers of the Environment's (CCME) definition for a "process to further reduce pathogens" (PRP). The compost portion shall meet the chemical, physical and biological properties (as outlined in the chart on reverse). These and all other required properties for the performance of the EcoBlanket are included in the Rexius EcoBlanket Manufacturer Guidelines followed by certified suppliers/installers. 2.3. Rexius Microblend additive shall be injected into Erosion Blend material at time of EcoBlanket construction. 2.4. A proof of certification as an EcoBlanket supplier shall be submitted to the Landscape Architect for approval prior to installation. Test results for EcoBlanket performance shall be made available upon request. 2.5. Where seeding or planting is planned, Erosion Blend material must meet Rexius' minimum specification requirements for seeding purposes.

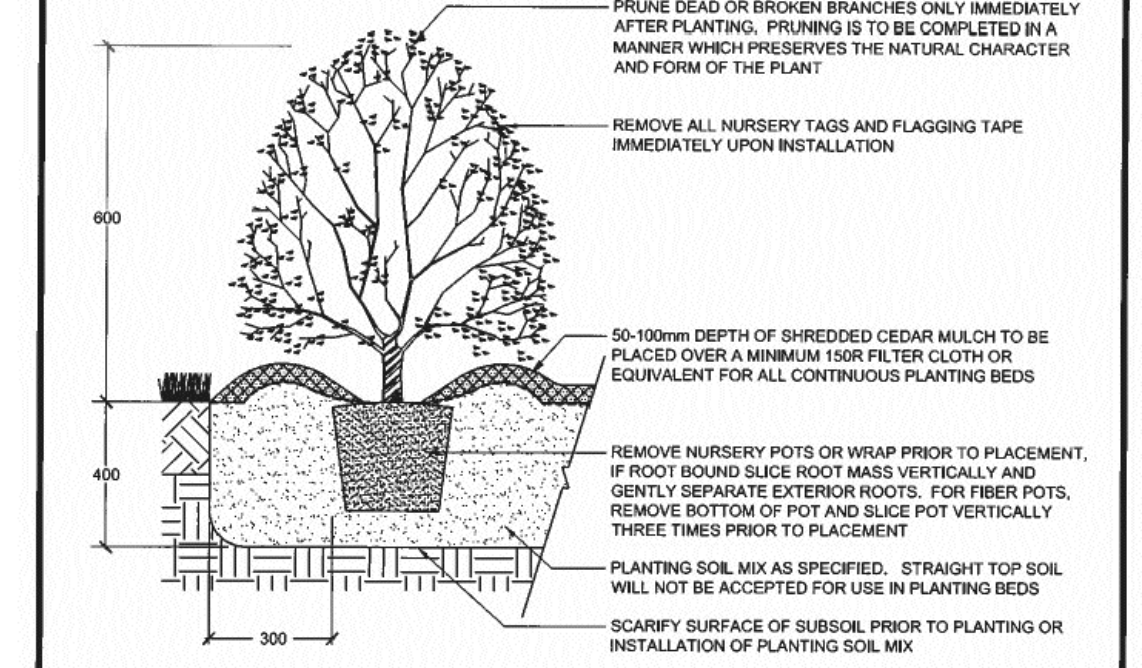
3.0 Construction:
3.1. The EcoBlanket shall be placed as shown on the plans or as directed by the Landscape Architect. 3.2. On areas with slopes 3:1 to 2:1 (H:V) the EcoBlanket shall be uniformly applied directly at the soil surface with a pneumatic blower as specified by Rexius. EcoBlanket shall be applied to slopes of 1:1 (H:V) and approximately 90° on over the top of the slope, or overlap it into existing vegetation. On areas with slopes up to 3:1 (H:V) the EcoBlanket shall be applied at a depth of 50mm minimum. In extreme conditions and where specified by the Engineer/Landscape Architect, EcoBlends shall be added and constructed at the top of the slope in parallel intervals down the profile of the slope (6 metres to 9 metres apart) if necessary. (The Engineer/Landscape Architect shall specify berm requirements) 3.3. Rexius Microblend shall be applied/injected at a minimum rate of 615 kgs. per hectare (or as specified by Rexius), to be confirmed by inspector/project manager. 3.4. EcoBlanket application depth may be modified based on specific site (e.g., soil characteristics, existing vegetation) and climatic conditions, as well as particular project related requirements. The severity of slope grade, as well as slope angle will also influence the addition of EcoBlends and number of EcoBlends placements in combination with the EcoBlanket. 3.5. If temporary or long-term vegetation is required, Erosion Blend material may be injected with seed during application. The Engineer/Landscape Architect shall specify seed requirements and the compost/mulch component shall abide by the minimum standards set by Rexius for seeding. 3.6. Where vegetation to be established, slightly roughen (scarify) slopes and remove large clods, rocks, stumps, roots larger than 50 mm in diameter and debris on slopes. This soil preparation step may be eliminated where approved by the Landscape Architect/Designer, or where seeding or planting is not planned. Where practical, track (compact) perpendicular to contours on the slope using a bulldozer before applying EcoBlanket injected with seed. 3.7. Do not use EcoBlankets in areas of concentrated flow (ie. ditches, streams, etc.) 3.8. Unless otherwise allowed by Landscape Architect, seeding shall be performed within the local region's seeding deadlines.

4.0 Maintenance:
The Contractor shall maintain the EcoBlanket in a functional condition at all times. Contractor shall make periodic inspections of the EcoBlanket for effectiveness and shall immediately correct all deficiencies. Where deficiencies exist, additional EcoBlanket material shall be installed immediately to required depth.

5.0 Method of Measurement:
EcoBlanket shall be measured by the square metre, complete in place.

6.0 Performance:
6.1. Place EcoBlankets on denuded areas immediately or as directed by Landscape Architect. EcoBlends and/or temporary or permanent vegetation shall be applied/established when necessary, along with other appropriate structural measures and controls, for additional erosion and sediment control. 6.2. The work specified in this Section consists of designing, providing, and maintaining erosion and sedimentation controls as necessary. All existing and foreseeable future conditions that affect the work inside and outside the site limits must be acknowledged as the Contractor's responsibility. 6.3. Contractor is responsible for providing effective sediment control measures based on performance. Contractor may, with approval from the Landscape Architect, work outside the minimum construction requirements to establish a working erosion control system.

Parameters: 4 Reported as (units of measure) EcoBlanket to be Vegetated EcoBlanket to be left Un-vegetated
PH2 pH unit 5.0 - 8.5 N/A
Soluble Salt Concentration² (electrical conductivity) ds/m (mmhos/cm) Maximum 5 N/A
Stability³ Carbon Dioxide Evolution Rate mg CO₂-C per g OM per day x 8 N/A
Physical Contaminants (man-made inerts) % dry weight basis < 1 - 1



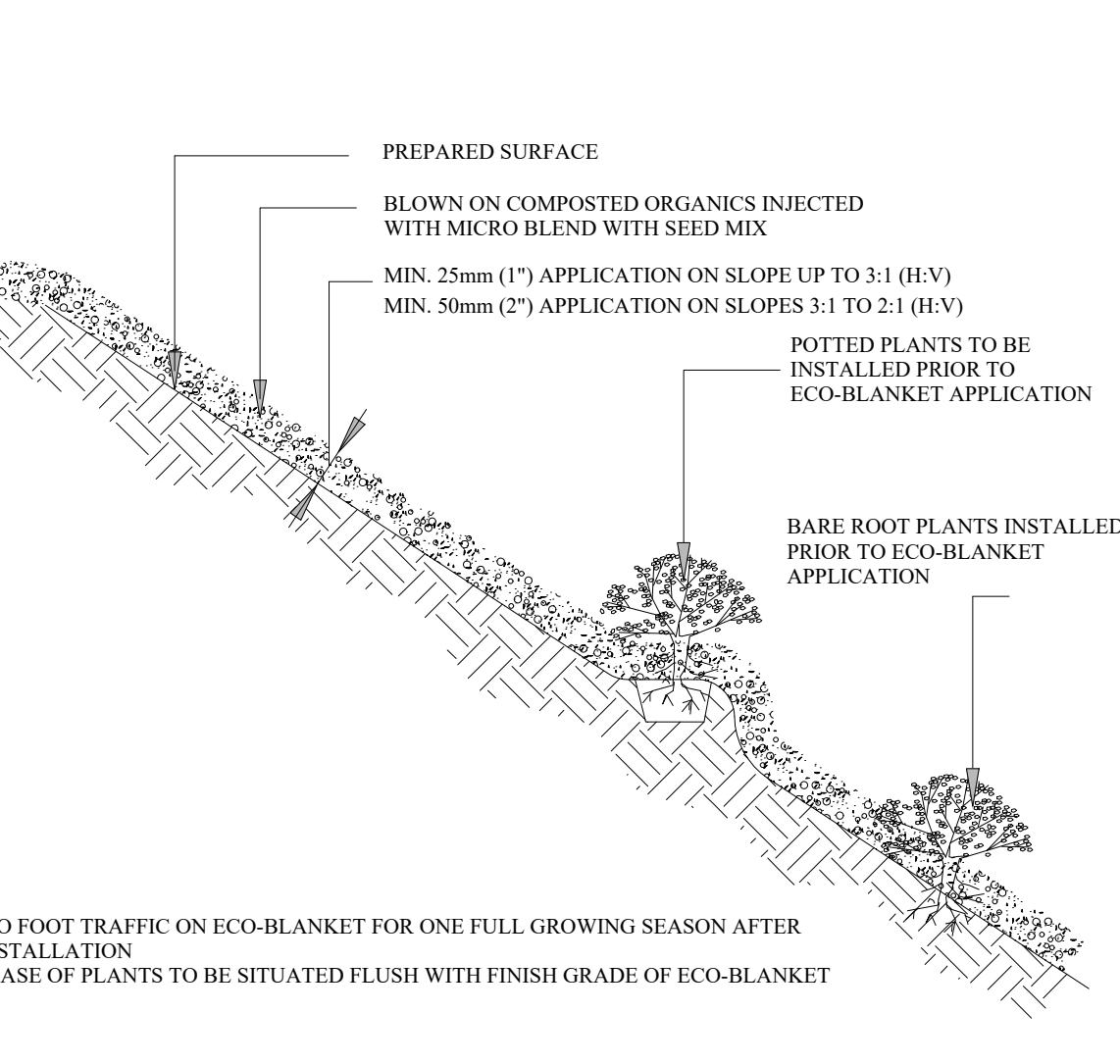
1. PLANTING METHOD ILLUSTRATED APPLIES TO CONTAINER / POTTED MATERIAL ONLY. 2. PLANTING DETAIL DOES NOT SPECIFICALLY RELATE TO ANY PARTICULAR SPECIES AND SHALL BE APPLIED TO BOTH DECIDUOUS AND CONIFEROUS POTTED MATERIAL. 3. SET SHRUBS 50mm HIGHER THAN GRADE TO ALLOW FOR SETTLEMENT. 4. ALL SHRUB PLANTING IS TO OCCUR IN CONTINUOUS MULCHED PLANTING BEDS WITH WEED CONTROL FILTER FABRIC. 5. DO NOT COVER THE BASE OF SHRUB WITH MULCH. 6. ALL SOIL SHALL BE ANGULATEDLY COMPACTED TO PREVENT AIR POCKETS AND SETTLEMENT. 7. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED.

APPROVED
DATE: June 11/15
BY: [Signature]
DIRECTOR OF ENGINEERING

REV No. 4 DATE: JUNE 2015
SCALE: N.T.S.
BSD-1314
FORMERLY BSD-31

The City of BARRIE
STANDARD DETAIL

CONTAINER GROWN SHRUB PLANTING DETAIL



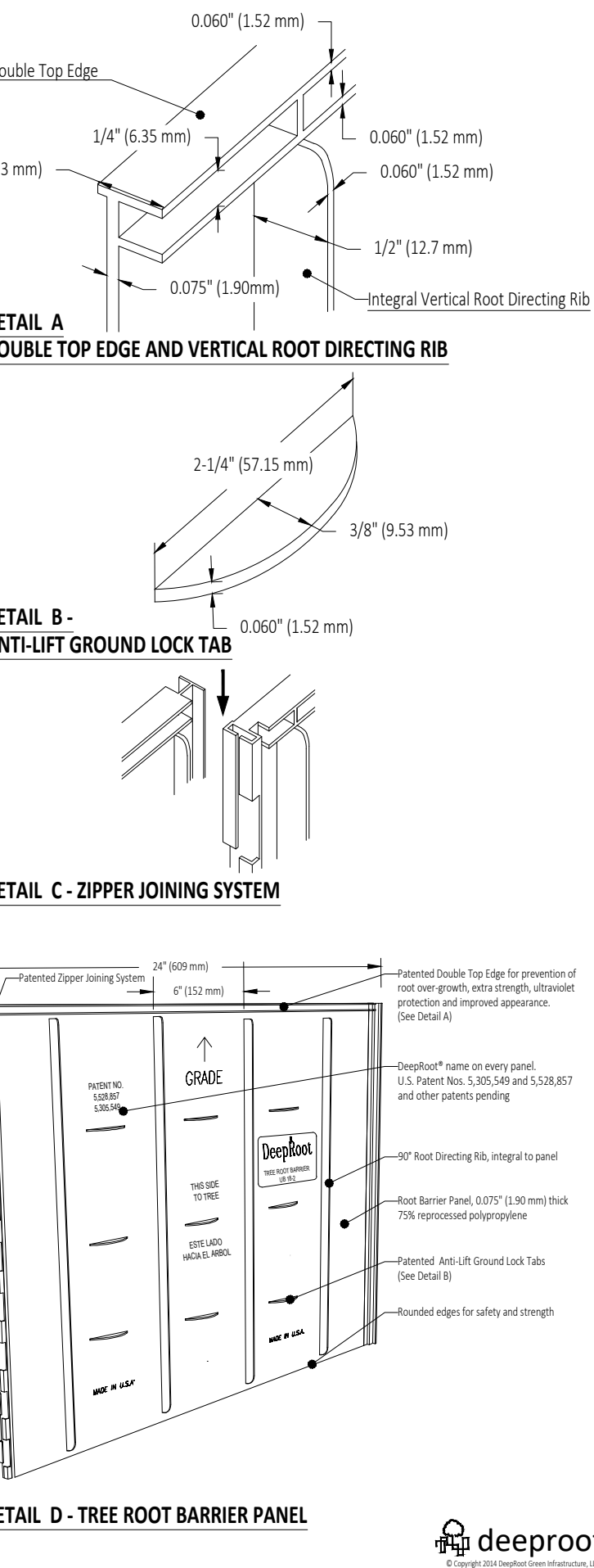
**UB 18-2 Specifications
18" DeepRoot® Tree Root Barrier**

Specified tree root barrier is a mechanical barrier and root deflector used to prevent tree roots from damaging hardscapes and landscapes. Assembled in 24" (609 mm) long modules to create varying lengths for linear applications, or perimeter surround applications in varying sizes.

A. Materials
1. The contractor shall furnish and install tree root barrier as specified. The tree root barrier shall be either product DR 18-2 as manufactured by DeepRoot® Green Infrastructure, LLC, 530 Washington Street, San Francisco, CA, www.deeproot.com (800.458.7668).

2. Root barrier shall be recyclable, black, injection molded panels with 0.75" (1.90 mm) wall thickness in modules 24" (609 mm) long and 18" (460 mm) deep.
 3. Root barrier shall be manufactured with 75% recycled polypropylene with added ultraviolet inhibitors.
 4. Root barrier shall be comprised of 4 (4) Molded Integral Vertical Root Directing Ribs of a minimum 0.060" (1.52 mm) thickness, equidistantly spaced 12" (12.7 mm) at 90° from interior of the barrier panel, spaced 6" (152.4 mm) apart. (See Details A & D)
 5. Root barrier shall have a Double Top Edge consisting of two parallel, integral, horizontal ribs at the top of the panel at 0.060" (1.52 mm) thickness, 3/8" (9.53 mm) wide and 1/4" (6.35 mm) apart with the lower rib attached to the vertical Root Directing Ribs (See Detail A).
 6. Root barrier shall have a minimum of nine (9) Anti-Lift Ground Lock Tabs consisting of integral horizontal ridges of minimum 0.060" (1.52 mm) thickness in the shape of a segment of a circle, the 2-1/4" (57.15 mm) thickness of the segment joining the panel and the segment, protruding 3/8" (9.53 mm) from the panel. The ground locks on each panel shall be about equally spaced between each of the vertical root directing ribs (See Details B & D).
 7. Root barrier shall have an integrated Zipper Joining System for assembly by sliding one panel into another (See Detail C).
- U.S. Patents: 5,305,549; and 5,528,857. Other Patents Pending.

Properties	Typical Value	ASTM Test Method
Tensile strength @ yield - Wall	2,354 PSI	D638
Tensile strength @ yield - Hinge	2,845 PSI	D638
Yield Elongation - Wall	7.44%	D638
Yield Elongation - Hinge	7.01%	D638
Flexural Modulus	119,625 PSI	D790B
Notched Izod Impact - Wall	3.84 (ft-lbs)	D256A
Rockwell Hardness - scale - Wall	84.4	D785A



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THIS DRAWING IS NOT TO BE SCALED.

PRATT HANSEN GROUP INC.

CLIENT NAME

PROJECT LEGAL DESCRIPTION

Block 598 on Hewitt's Gate Draft Plan Part of Lot 1, City of Barrie, City of Simcoe

LANDSCAPE ARCHITECTS STAMP

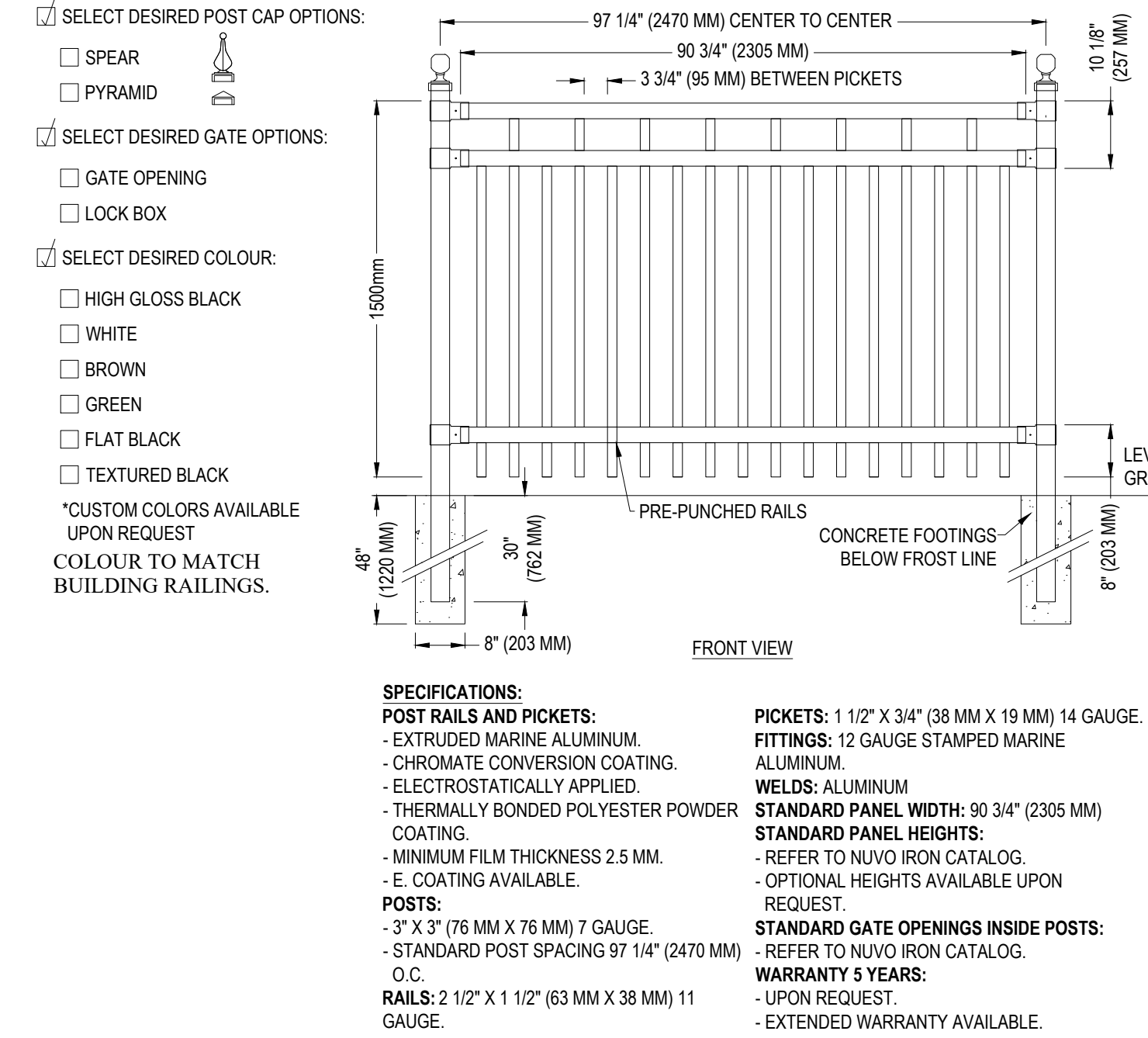
Professional seal and signature of the landscape architect.

JDB ASSOCIATES LTD.

Urban Designers
Landscape Architects
Arbors

274 Burton Ave., Suite 1201
Barrie, Ontario
L4N 6W4

Fax: 705-722-5660
Tel: 705-722-6278



NOTES:
 1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
 2. DO NOT SCALE DRAWING.
 3. THIS DRAWING IS INTENDED FOR USE BY ARCHITECTS, ENGINEERS, CONTRACTORS, CONSULTANTS AND DESIGN PROFESSIONALS FOR PLANNING PURPOSES ONLY. THIS DRAWING MAY NOT BE USED FOR CONSTRUCTION.
 4. ALL INFORMATION CONTAINED HEREIN WAS CURRENT AT THE TIME OF DEVELOPMENT BUT MUST BE REVIEWED AND APPROVED BY THE PRODUCT MANUFACTURER TO BE CONSIDERED ACCURATE.
 5. CONTRACTOR'S NOTE: FOR PRODUCT AND COMPANY INFORMATION VISIT www.CADdetails.com/info AND ENTER REFERENCE NUMBER

MEMORIAL COLLECTION - ALUMINUM

ORNAMENTAL RAILING DETAIL

NOTE:
 RAILING PROVIDED BY NUVO IRON OR APPROVED EQUIVALENT

NOTE:
 PROVIDE NOTICE TO THE LANDSCAPE ARCHITECT BEFORE THE INSTALLATION OF THE FENCE. WHERE INSTALLED ON TOP OF THE WALL THREADED RODS DEPTH TO BE CERTIFIED BY LANDSCAPE ARCHITECT BEFORE FENCE INSTALLATION. REFER TO L-8.

High Security Fencing
 The high security fence height above ground shall be 2.4 m.
 The panel mesh shall consist of a minimum 4mm diameter high tensile wire, with aperture sizes (openings) 76.2mm x 12.7mm on center or smaller fastened to suitable posts that allow for a minimum foundation depth of 1200 mm. The fence panels shall be strengthened with factory formed undulations within each mesh panel. Mechanical Fasteners shall be tamperproof, and factory galvanized. Fastening hardware shall be concealed from the face of each panel and post. The mesh, posts, clamps and associated hardware are to be galvanized with an exterior finish coating capable of withstanding repeat climate variances within Southern Ontario.

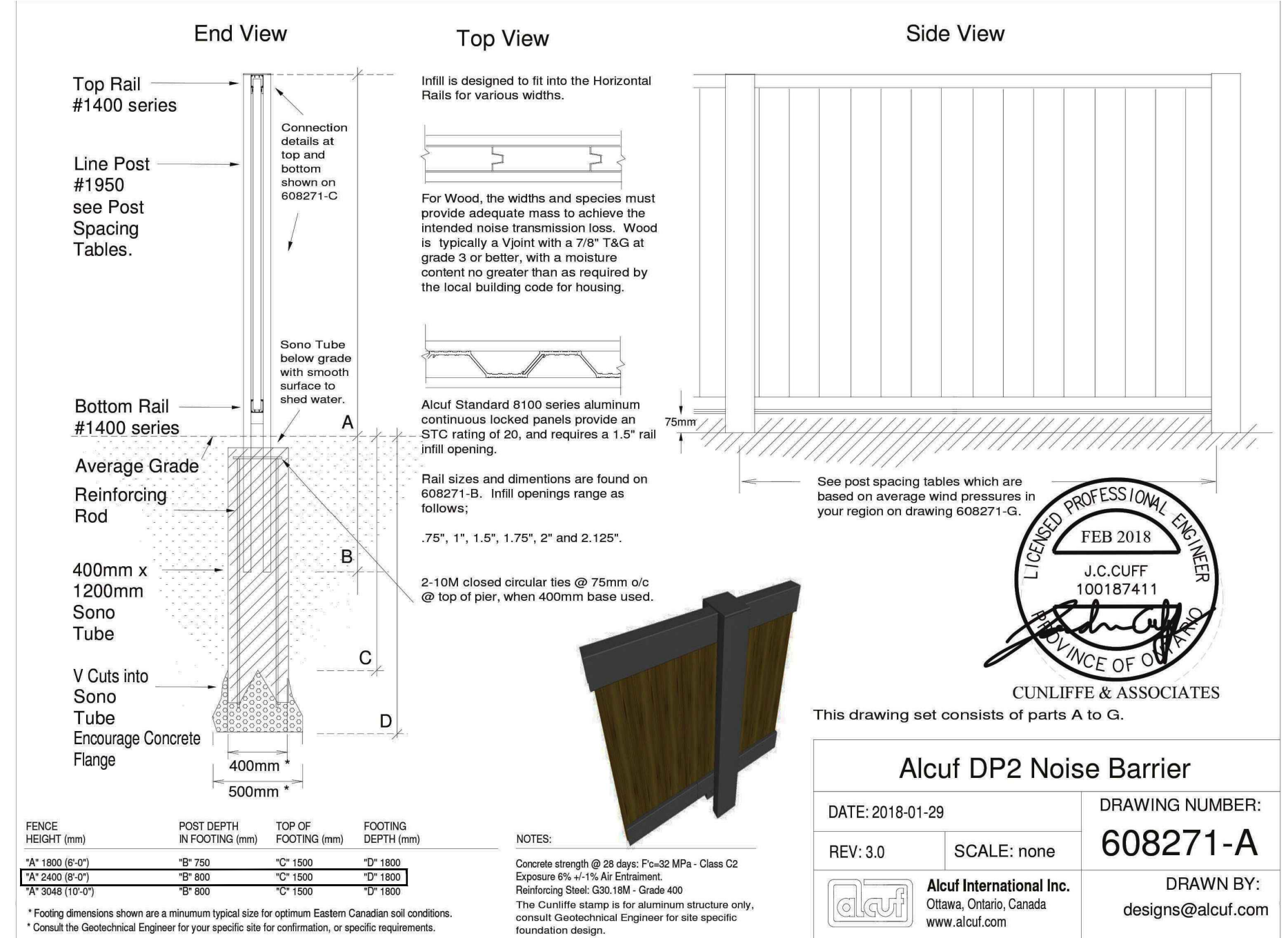
1.1 High Security Fence
 (a) When directed by Metrolinx the Contractor shall install high security fencing at ROW limits, at layover yards and at other locations instructed by Metrolinx. The manufacturer and product name of approved High Security fencing are listed below. Proposed equivalents recommended by the contractor will be subject to approval by Metrolinx prior to installation.
 (i) Cochrane - ClearVu
 (ii) BETAFENCE - Securior 3D
 (iii) CLD - Securus Profiled
 (iv) Bear Mountain - Bear Securi Mesh Barrier

(b) The high security fence height above ground shall be 2.4 m.
 (c) The panel mesh shall consist of a minimum 4mm diameter high tensile wire, with aperture sizes (openings) 76.2 x 12.7 mm centers or smaller fastened to suitable posts that allow for a minimum foundation depth of 1200 mm.
 (d) The fence panels shall be strengthened with factory formed undulations within each mesh panel. Mechanical Fasteners - Shall be tamper proof and mechanically galvanized. Fastening Hardware shall be concealed from the non-rail side of each panel and post.
 (e) Mesh to be galvanized with an exterior finish coating capable of withstanding typical climate variances within Southern Ontario.
 (f) Specification sheets and breach testing results for any proposed alternate products and materials shall be submitted to Metrolinx staff for approval.

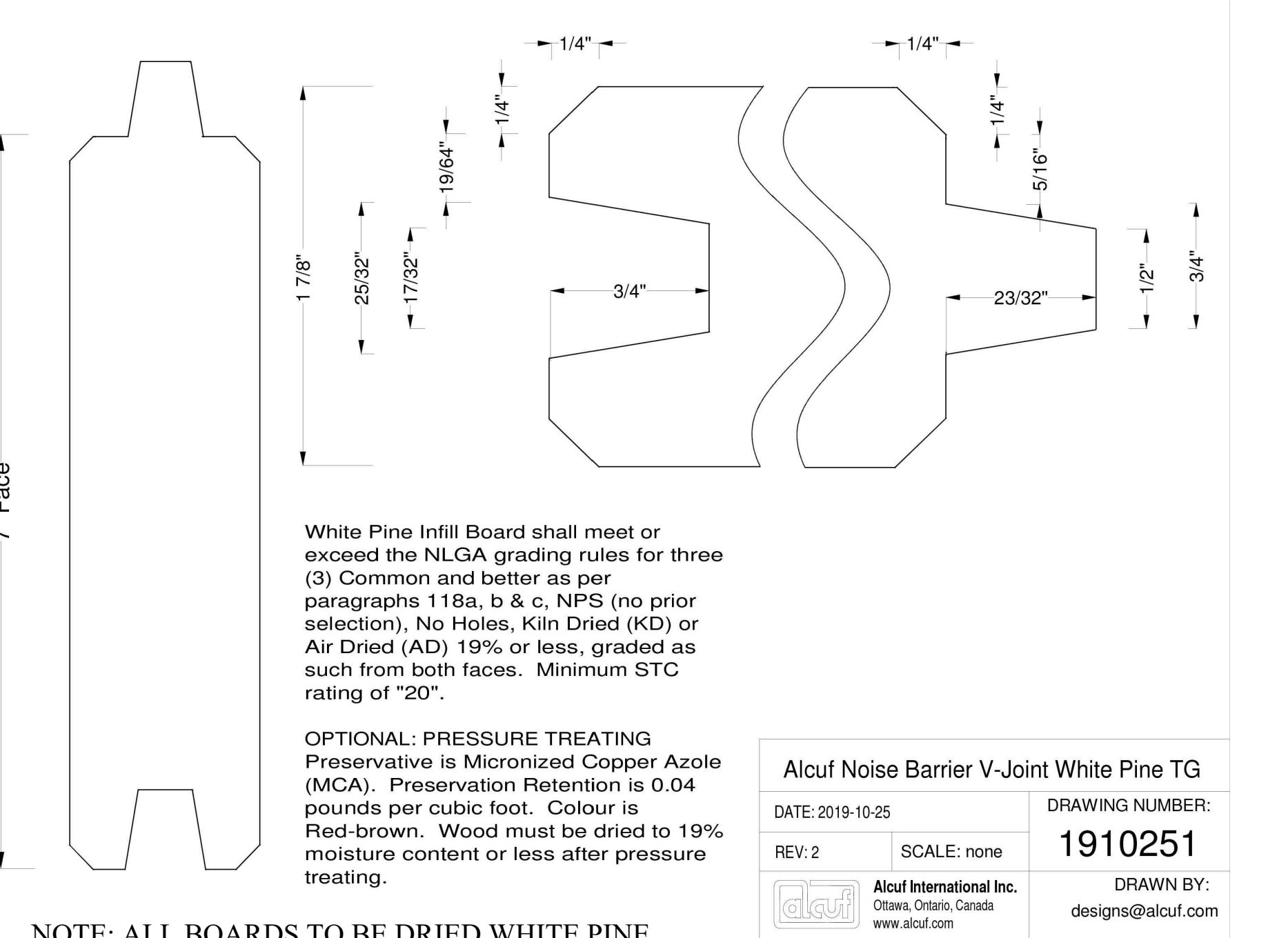
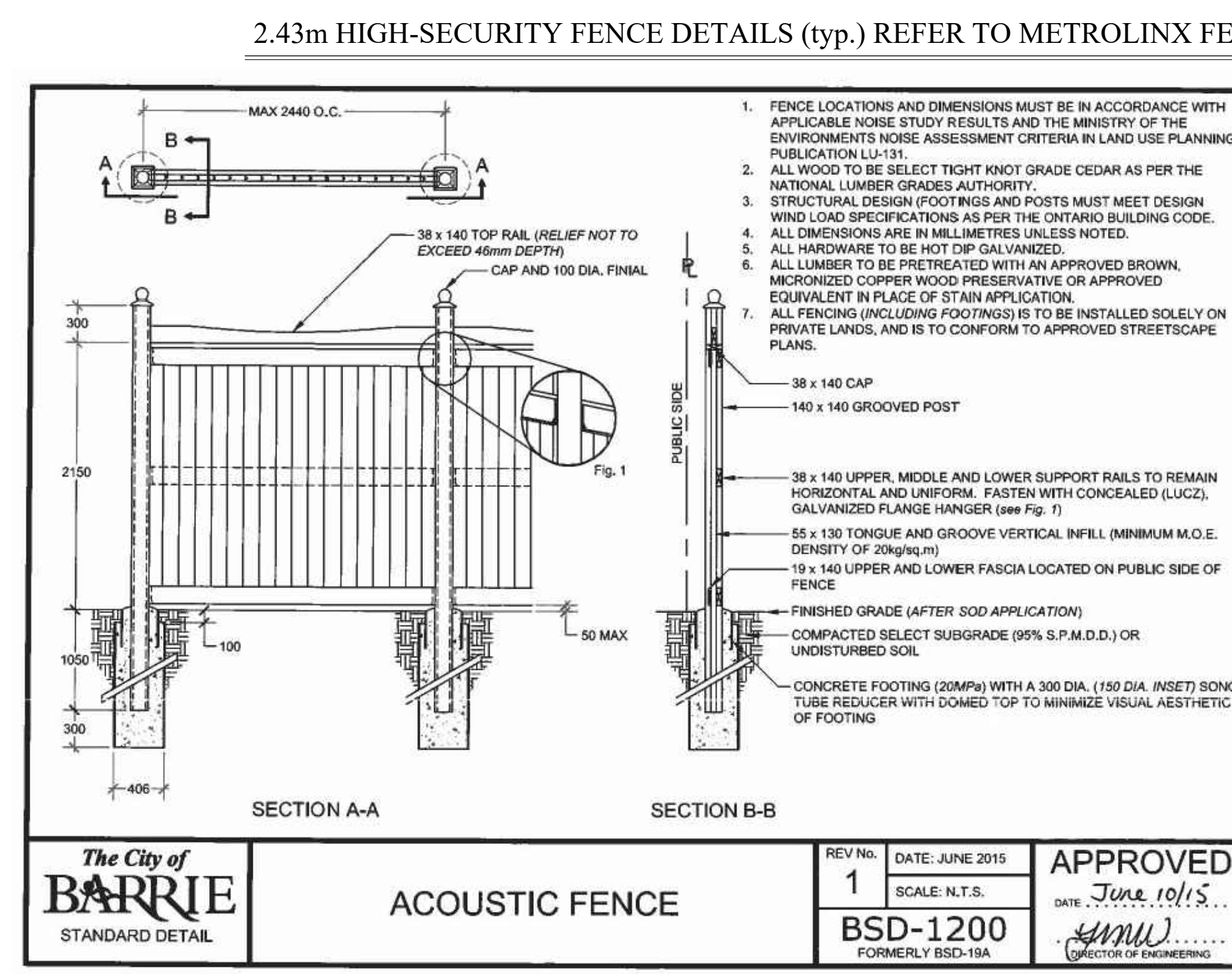
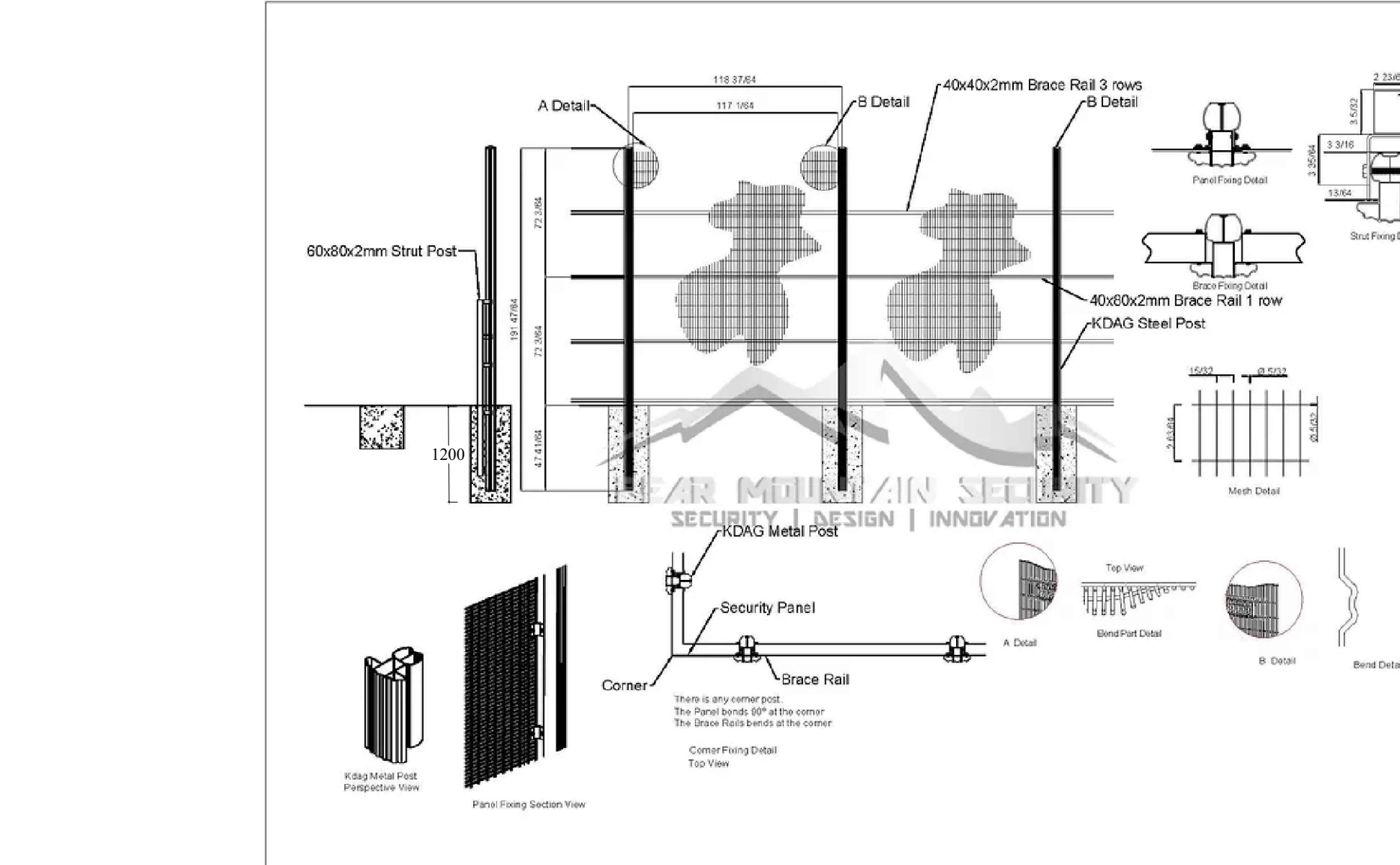
SECURITY FENCE TO BE INSTALLED 4 INCHES FROM THE MUTUAL PROPERTY LINE ON THE DEVELOPMENT SIDE. THE ADJACENT LANDOWNER IS RESPONSIBLE FOR THE CONTINUED MAINTENANCE AND UPKEEP OF FENCING SYSTEMS ALONG THE MUTUAL PROPERTY LINE.

2.43m HIGH-SECURITY FENCE METROLINX REQUIREMENTS

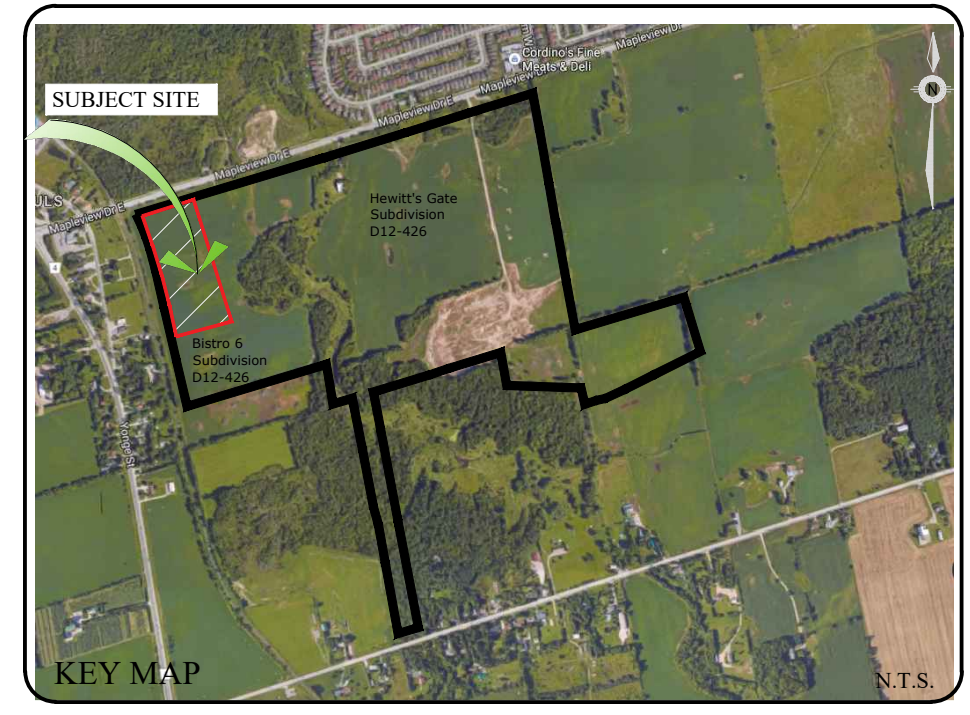
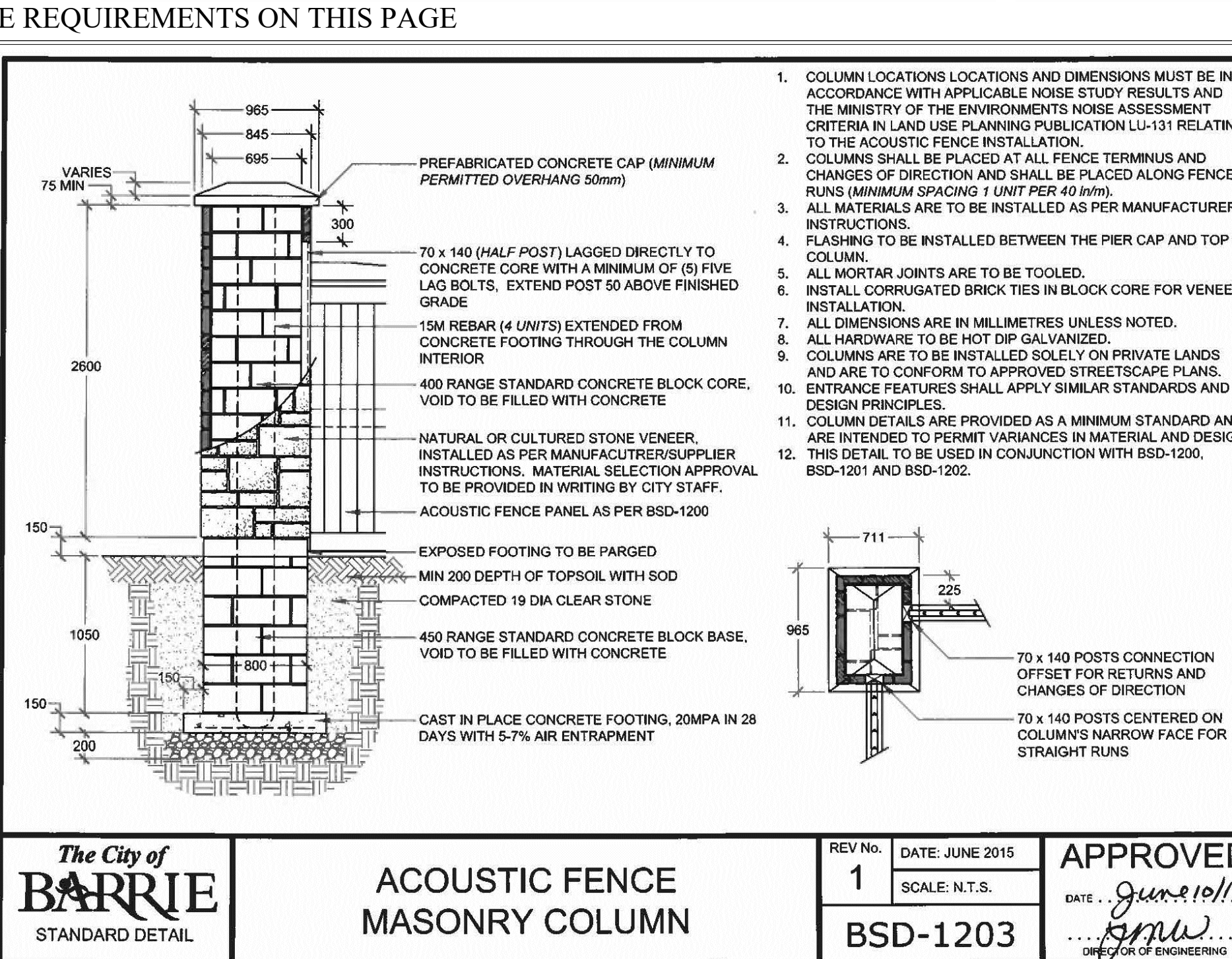
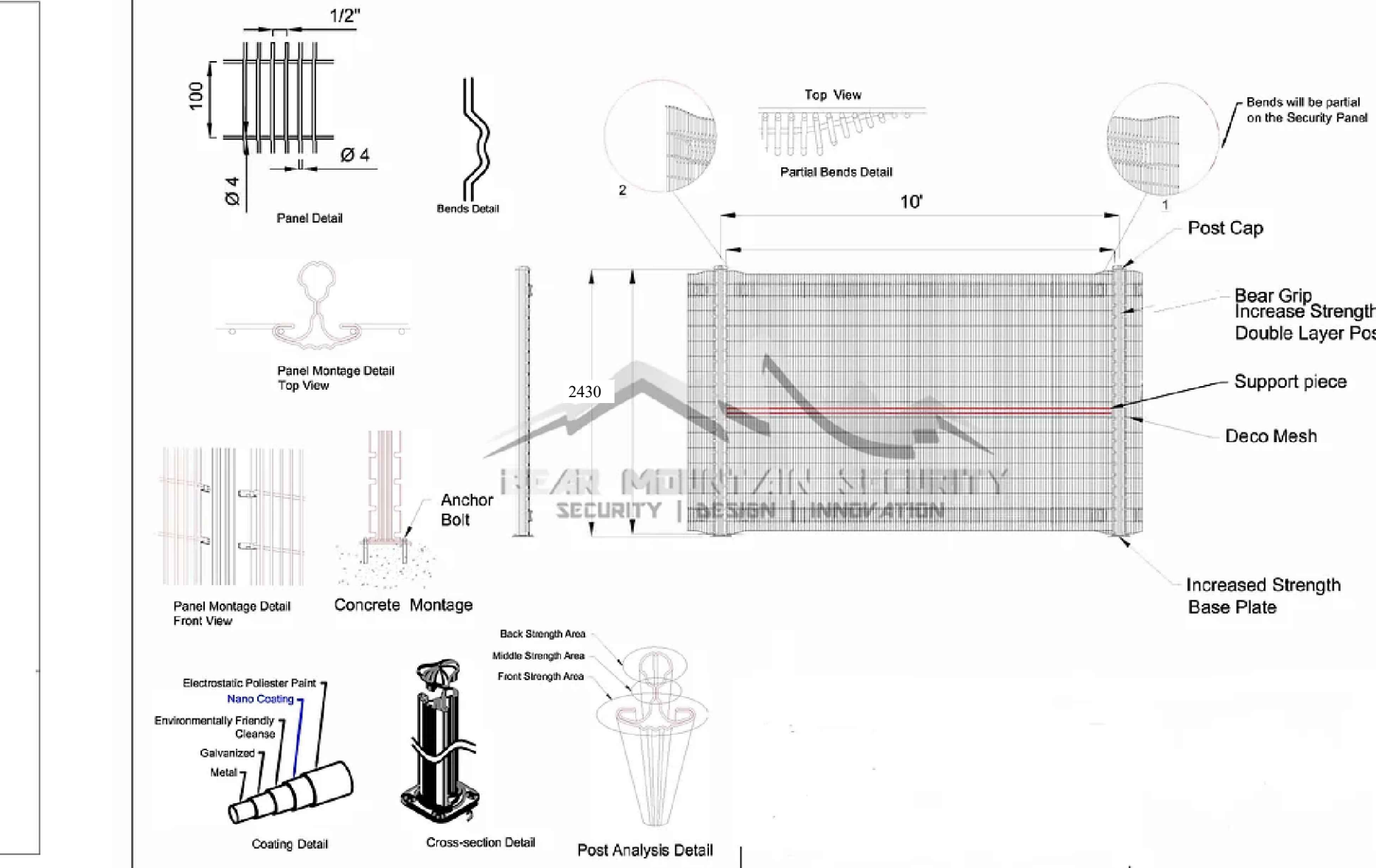
NOTE:
 HEIGHT OF THE FENCE ADJACENT TO THE METROLINX CORRIDOR TO BE 2.43m. SHOP DRAWING TO BE PROVIDED BEFORE INSTALLATION TO THE LANDSCAPE ARCHITECT AND THE CITY OF BARRIE FOR APPROVAL.



RECOMMENDED ACOUSTICAL FENCE DETAIL OR MINIMUM APPROVED EQUAL (BSD-1200 WITH PILLARS BSD-1203)



NOTE: ALL BOARDS TO BE DRIED WHITE PINE
 *) pressure treated wood not recommended for this type of fence due to boards shrinking as result of the additional moisture.
 ALL ALUMINUM PARTS TO BE PAINTED BLACK



GENERAL NOTES

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1.	SUBMITTED TO THE CITY OF BARRIE	June 21, 2021	SJT
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3.	AS PER CITY COMMENTS	January 25, 2021	SJT
4.	AS PER METROLINX COMMENTS & REVISED GRADING PLAN	February 25, 2022	SJT
5.	SUBMITTED TO THE CITY OF BARRIE	May 13, 2022	SJT

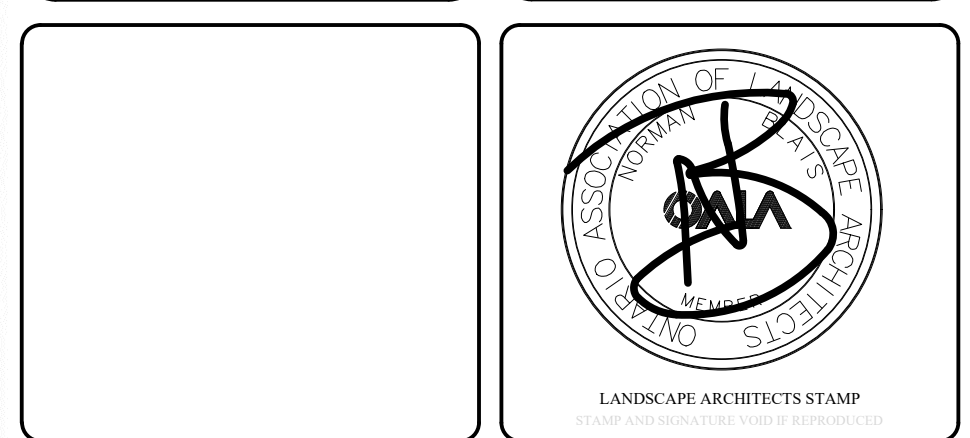
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PRATT HANSEN GROUP INC.

BASE INFORMATION PROVIDED BY:
 The Jones Consulting Group Ltd.
 229 Mapleview Drive East, Unit 1
 Barrie, ON L4N 6W5
 Phone: (705) 734-2538 ext 294 Fax: (705) 734-1056
 BASE PLAN REVISED: October, 2020



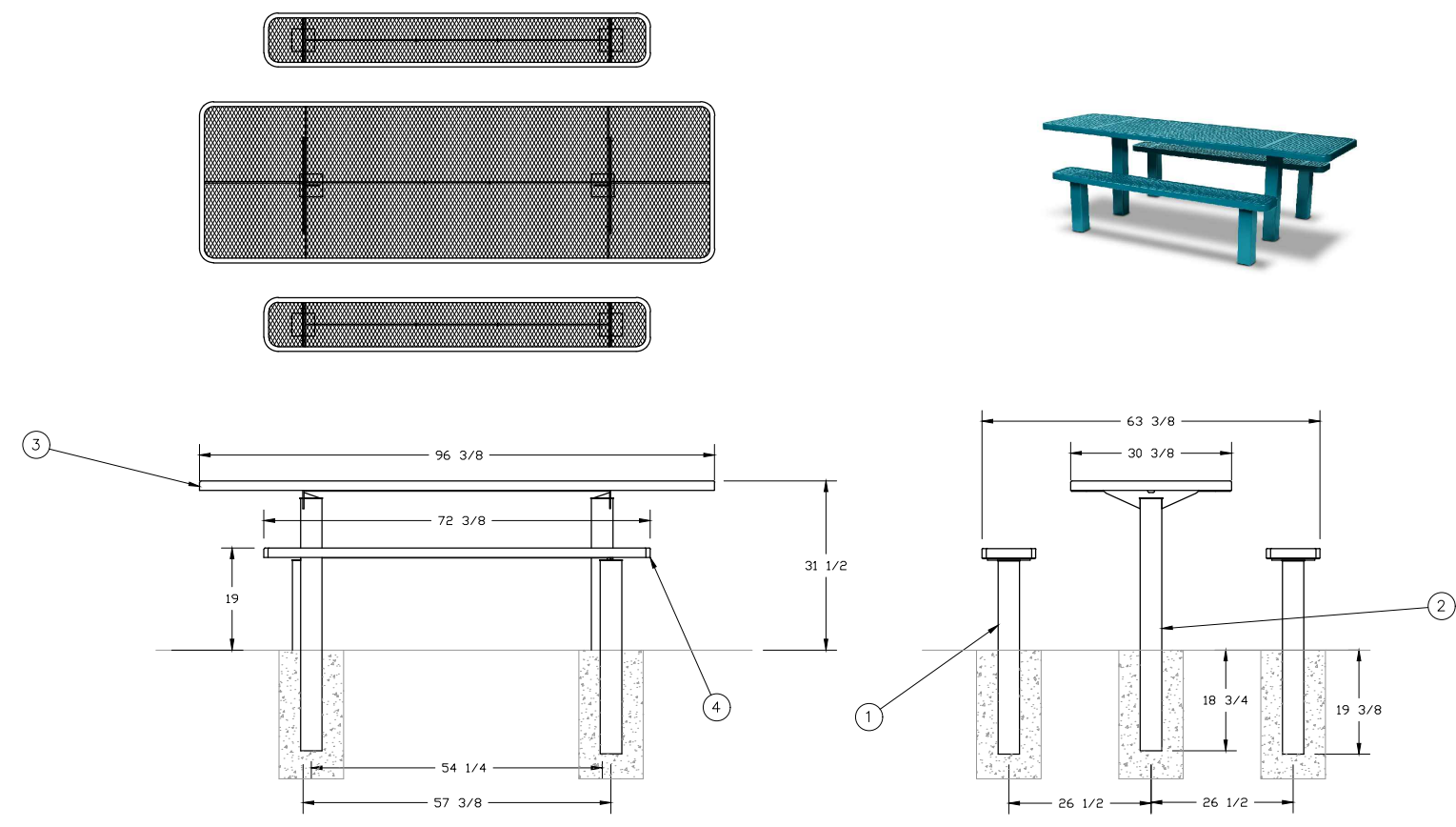
JDB ASSOCIATES LTD.
 Urban Designers
 Landscape Architects
 Arborists

274 Burton Ave., Suite 1201
 Barrie, Ontario
 L4N 6W4
 Fax: 705-722-5660
 Tel: 705-722-6278

Bistro 6 West ELEMENTS
 723 Mapleview Dr. E
 City of Barrie

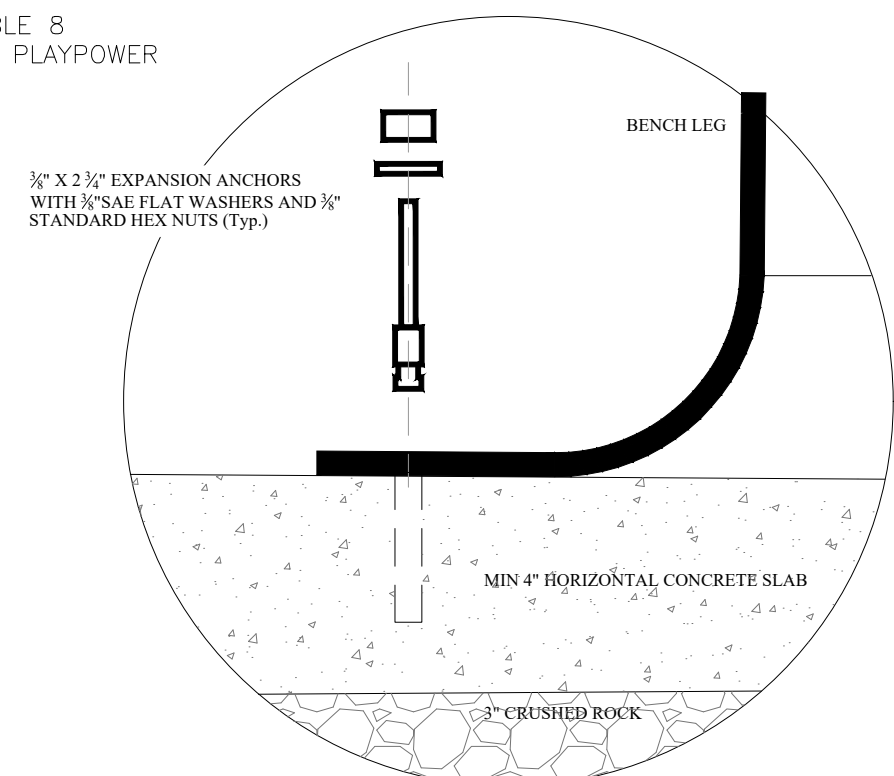
FENCING DETAILS

SCALE:	DATE:	DESIGNED BY:	REVIEWED BY:
N.T.S.		SJT	NB
CITY FILE No. D11-004-2021	OUR FILE REF. # 25-20	DRAWN BY: SJT	L-4

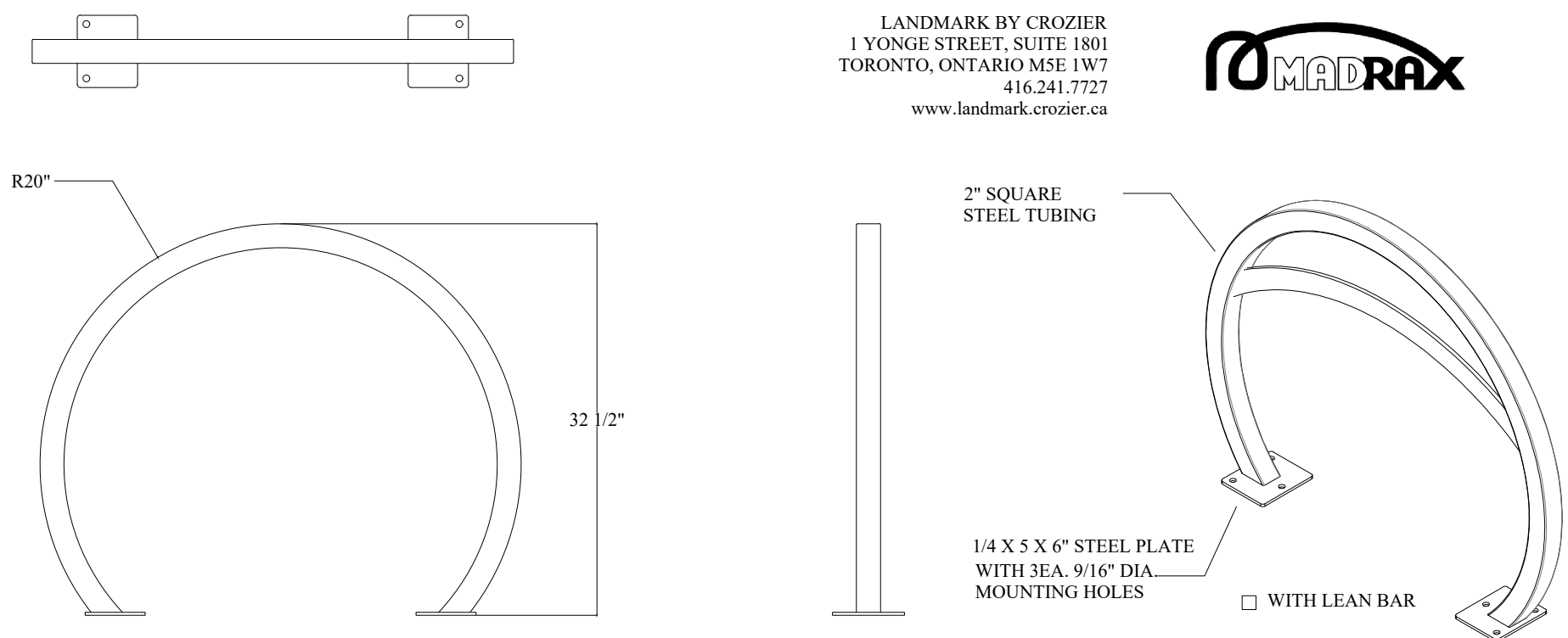


NOTES:
 1. UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN INCHES AND PER ASME Y14.5M-1994.
 2. ALL DIMENSIONS AFTER PLASTISOL COATING.
 3. DO NOT SCALE DRAWING.

SIGNATURE SERIES PICNIC TABLE 8
 WABASH VALLEY PROVIDED BY PLAYPOWER

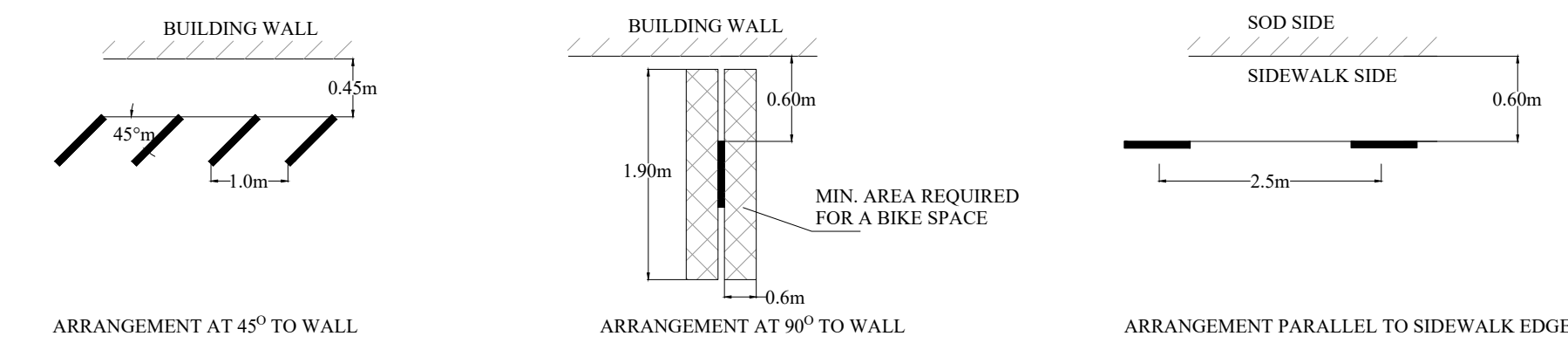


ACCESSIBLE PICNIC BENCH DETAIL (Typ.)

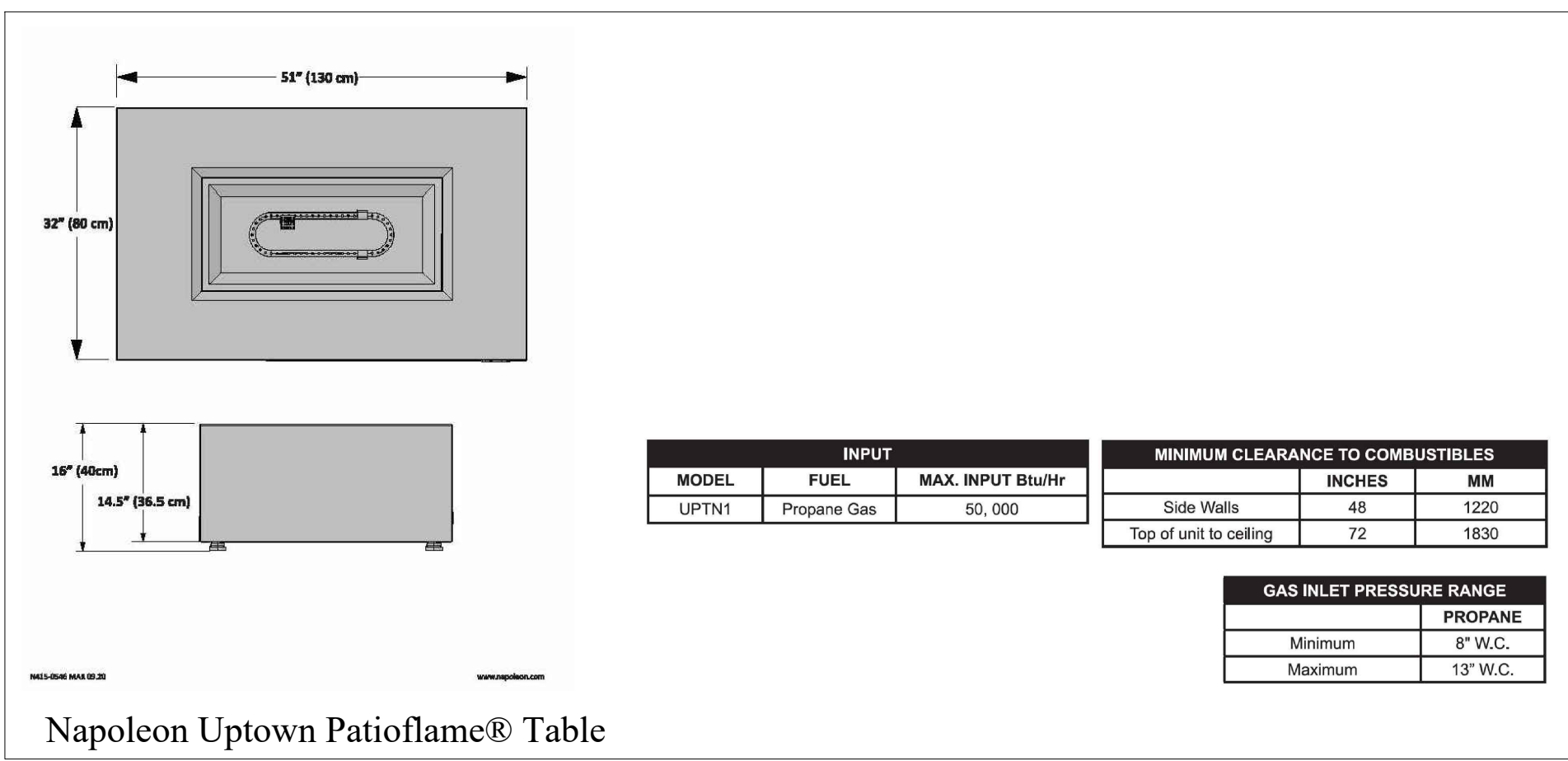


NOTES:
 1. INSTALL BIKE RACKS ACCORDING TO MANUFACTURER'S SPECIFICATIONS.
 2. CONSULTANT TO SELECT COLOR (FINISH), SEE MANUFACTURER'S SPECIFICATIONS.
 3. SEE SITE PLAN FOR LOCATION OR CONSULT OWNER.

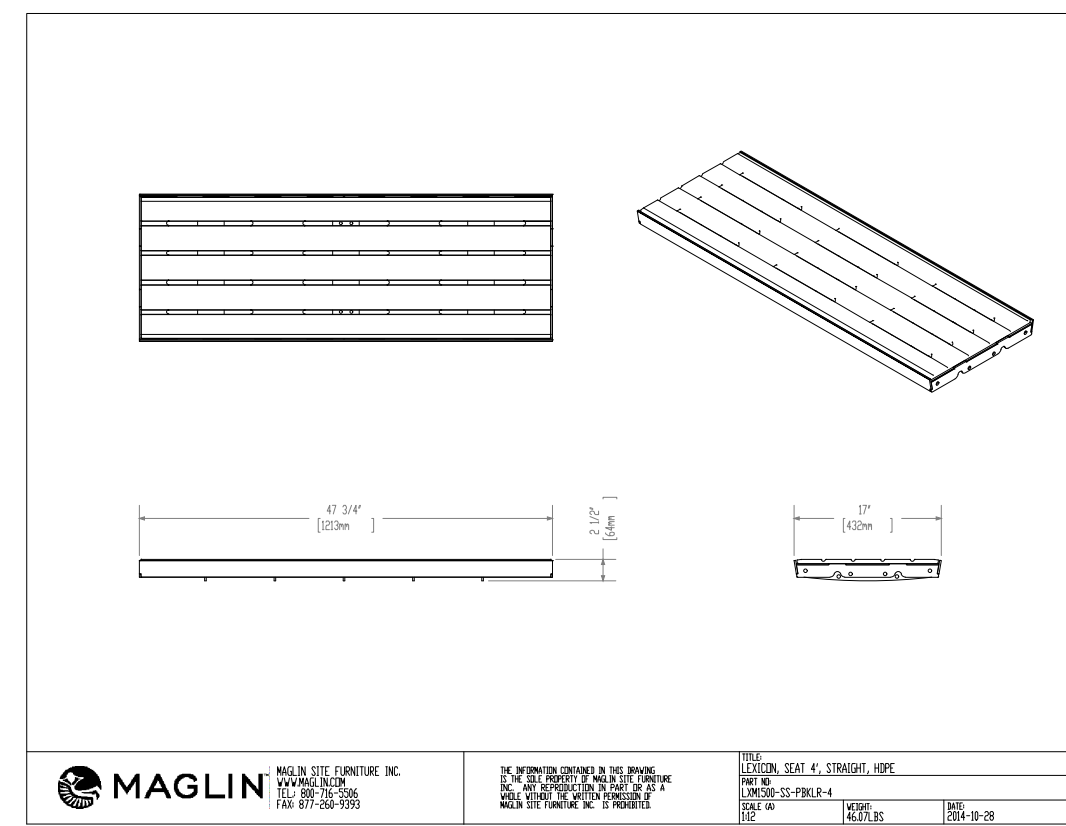
PRODUCT: ORNS-2(LB)-IG(SF)
 DESCRIPTION: ORION BIKE RACK



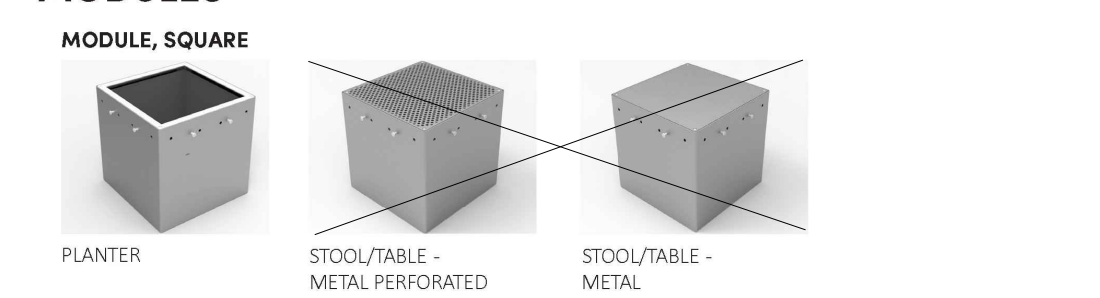
BIKE RACK DETAIL (Typ.)



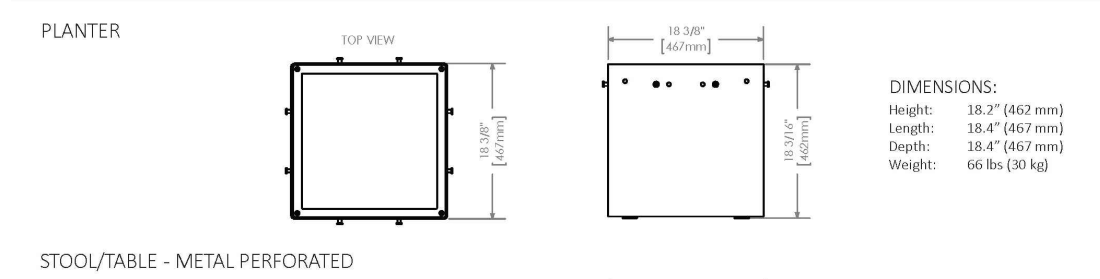
Napoleon Uptown Patioflame® Table



LEXICON



MATERIALS: Modules are made from steel. Tops employ laser cut and/or perforated steel tops.
 FINISH: All steel components are protected with E-Coat rust proofing. The Maglin Powdercoat System provides a durable finish on all metal surfaces.
 INSTALLATION: Individual components come pre-assembled. Reference the LEXICON INSTALLATION INSTRUCTIONS document for onsite assembly and installation.
 TO SPECIFY: Select LEXICON Series
 Choose: Style: LXM1500-MPS-M (Module - Planter), LXM1500-MPS-KP (Module - Stool/Table - Metal Perforated), LXM1500-MPS-M (Module - Stool/Table - Metal)
 Powdercoat color



NOTE:
 ALL PARK FURNITURE TO BE INSTALLED ON A HORIZONTAL, MIN. 4" THICK, CONCRETE SLABS UNDER THE SUPERVISION OF THE LANDSCAPE ARCHITECT.



MAGLIN MLWR400-25 Trash Container

MATERIALS
 The MLWR400-25 Trash Container frame is constructed using H.S. steel tube. The sides are constructed with, lasered steel panels. A 25 gallon commercial grade plastic liner and metal lid are provided.
 DIMENSIONS
 MLWR400-25-M MLWR400-25-W MLWR400-25-PC(X) MLWR400-25-R(X)
 Height: 30.00" (76.2cm)
 Width: 21.00" (53.3cm)
 Depth: 21.00" (53.3cm)
 WEIGHT
 MLWR400-25-M: 127lbs (57kg.)

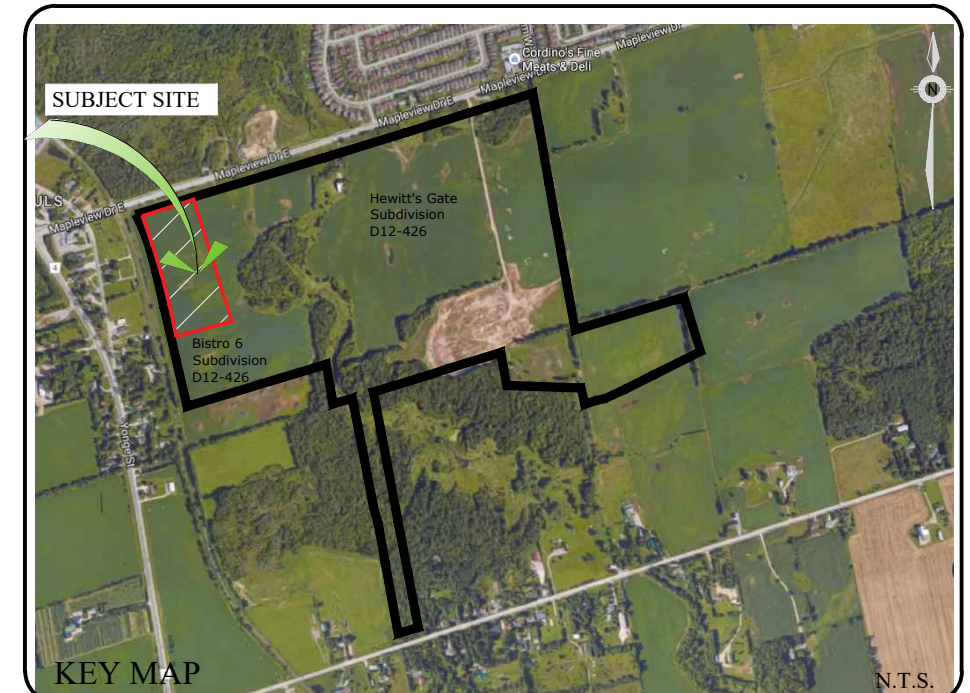
FINISHES
 All steel components are protected with E-Coat Rust Proofing. The Maglin Powdercoat System provides a durable finish on all metal surfaces.

INSTALLATION
 The MLWR400-25 Series Trash Containers are delivered pre-assembled. Holes (0.5") are provided in each mounting foot for securing to base.

FINISHES
 All steel components protected with E-Coat Rust Proofing.



MAGLIN BENCH LEXICON MODEL #LAYT_LXM1500-00008 WITH LEXICON, MODULE, PLANTER, SQUARE, METAL, PART NO. LXM1500-MPS-M



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PRATT HANSEN GROUP INC.

CLIENT NAME

BASE INFORMATION PROVIDED BY:
 The Jones Consulting Group Ltd.
 229 Mapleview Drive East, Unit 1
 Barrie, ON L4N 6W5
 Phone: (705) 734-2538 ext. 294 Fax: (705) 734-1056
 BASE PLAN REVISED: October, 2020

Block 598 on Hewitt's Gate Draft Plan
 Part of Lot 16, Concession 11
 City of Barrie, County of Simcoe

PROJECT LEGAL DESCRIPTION

LANDSCAPE ARCHITECTS STAMP

ASSOCIATION OF PROFESSIONAL ARCHITECTS OF ONTARIO

JDB ASSOCIATES LTD.

Urban Designers
 Landscape Architects
 Arborists

274 Burton Ave., Suite 1201
 Barrie, Ontario
 L4N 6W4

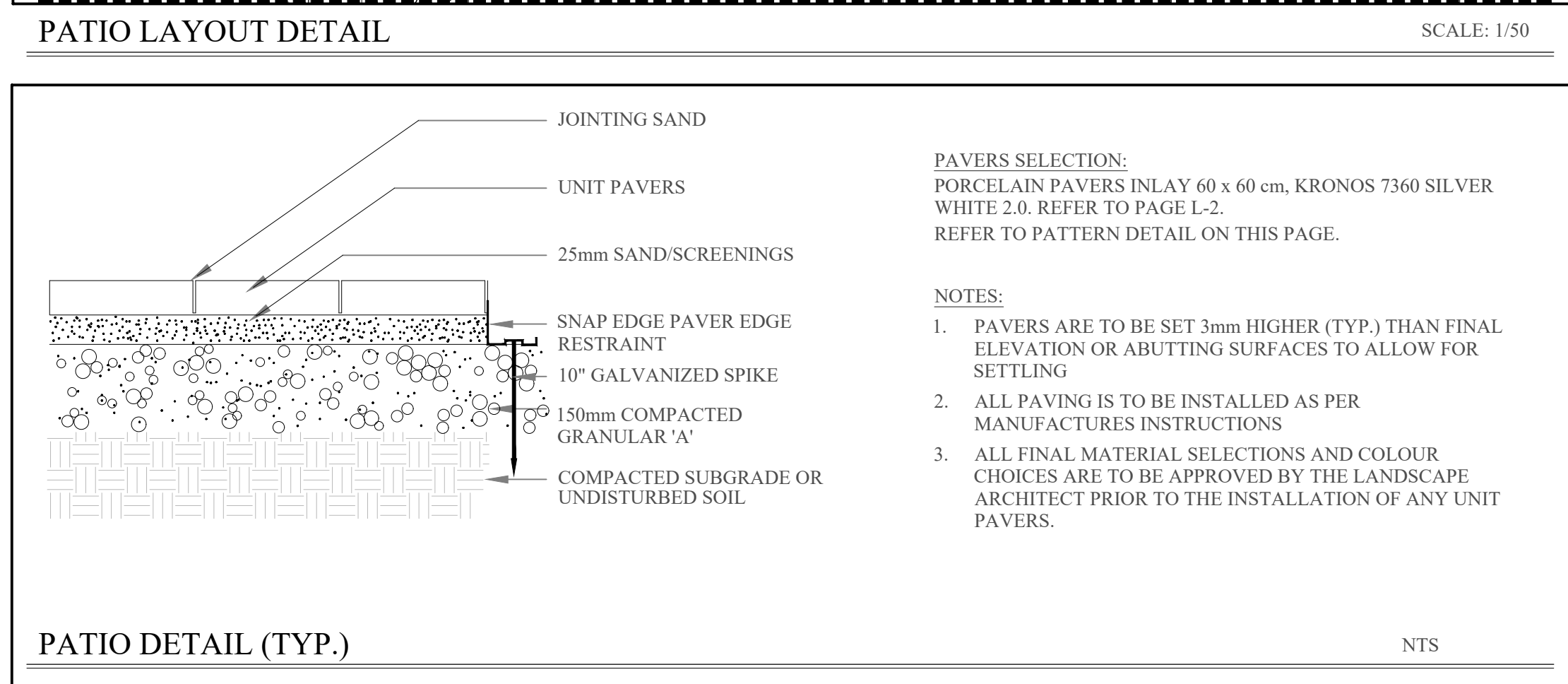
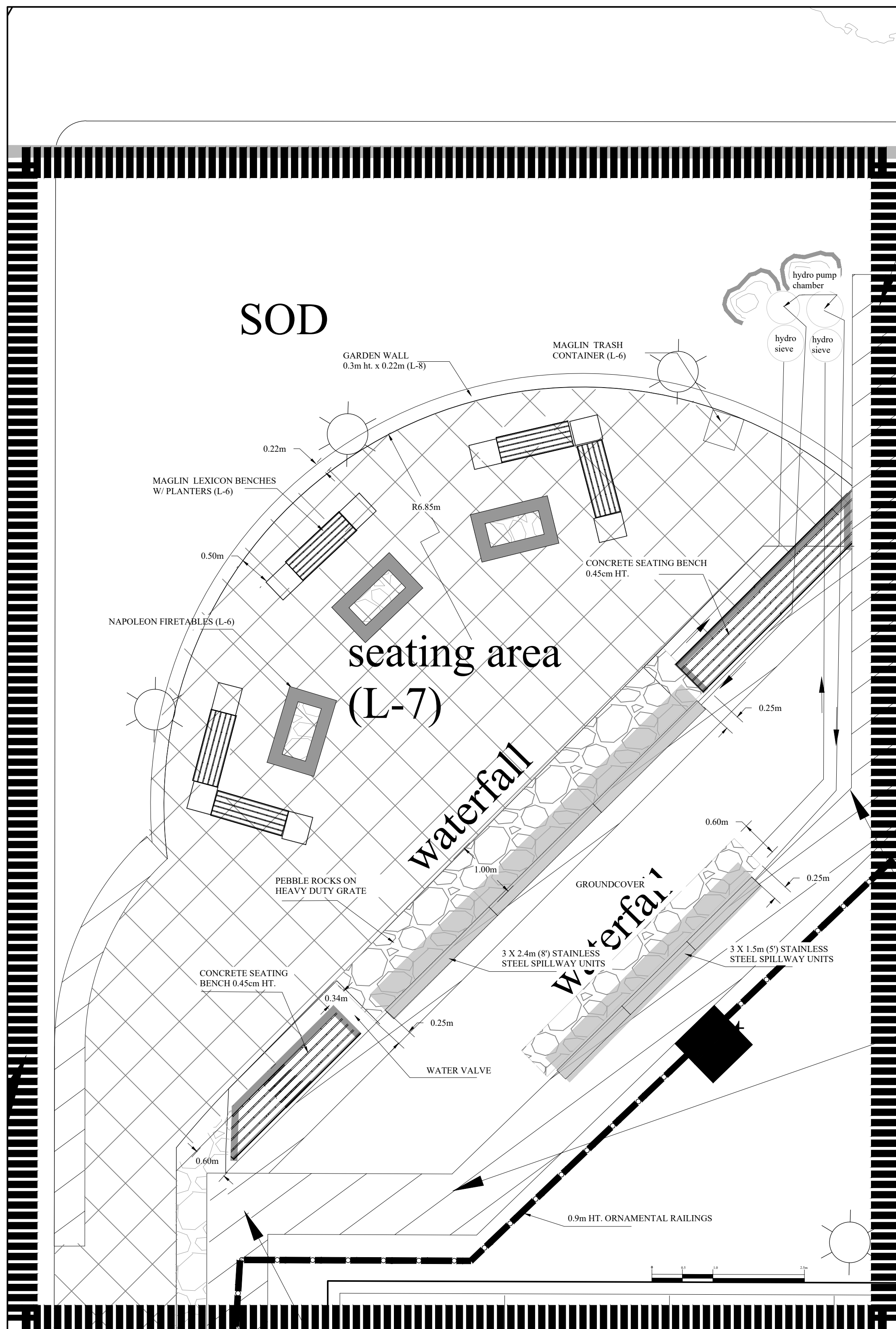
Fax: 705-722-5660
 Tel: 705-722-6278

Bistro 6 West ELEMENTS

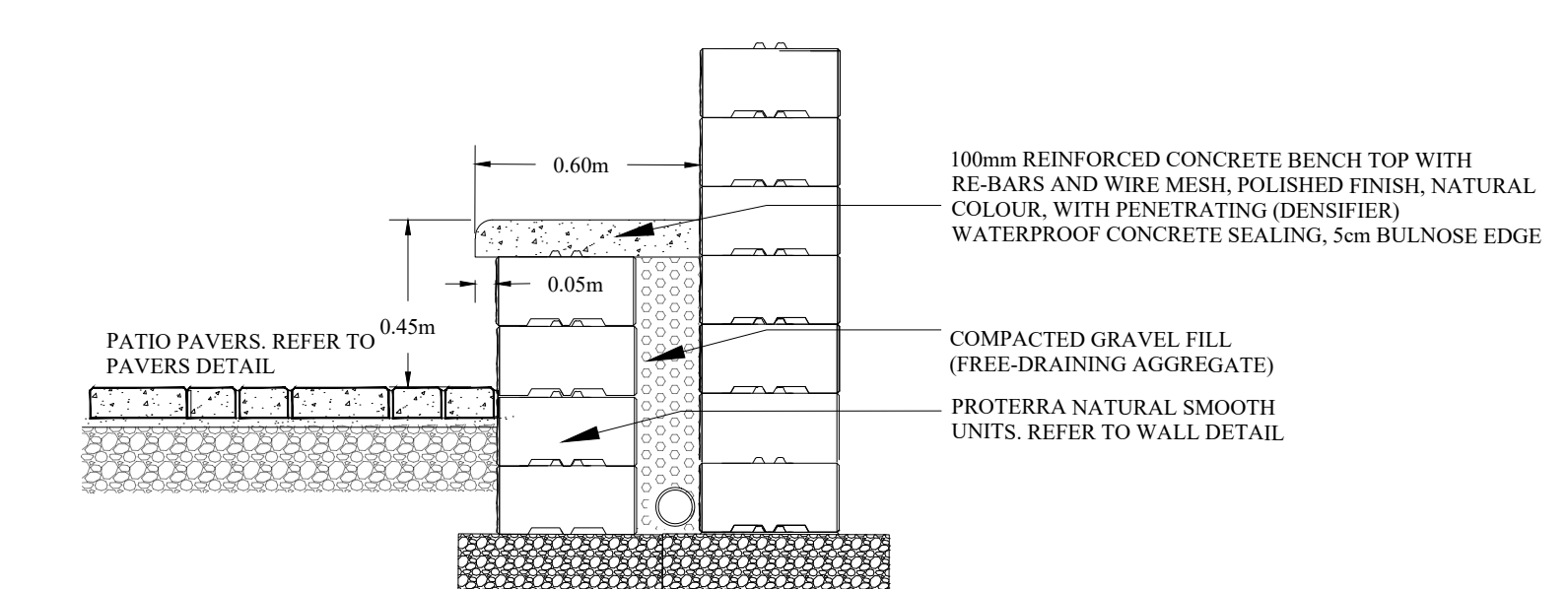
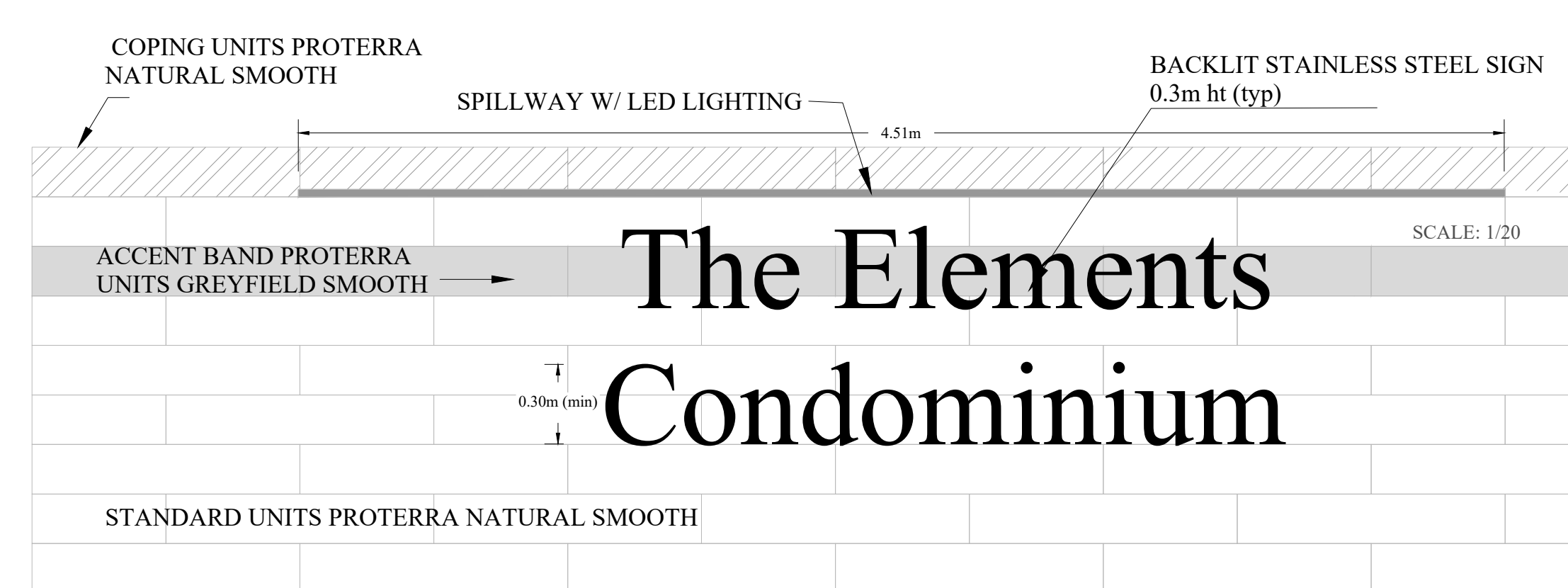
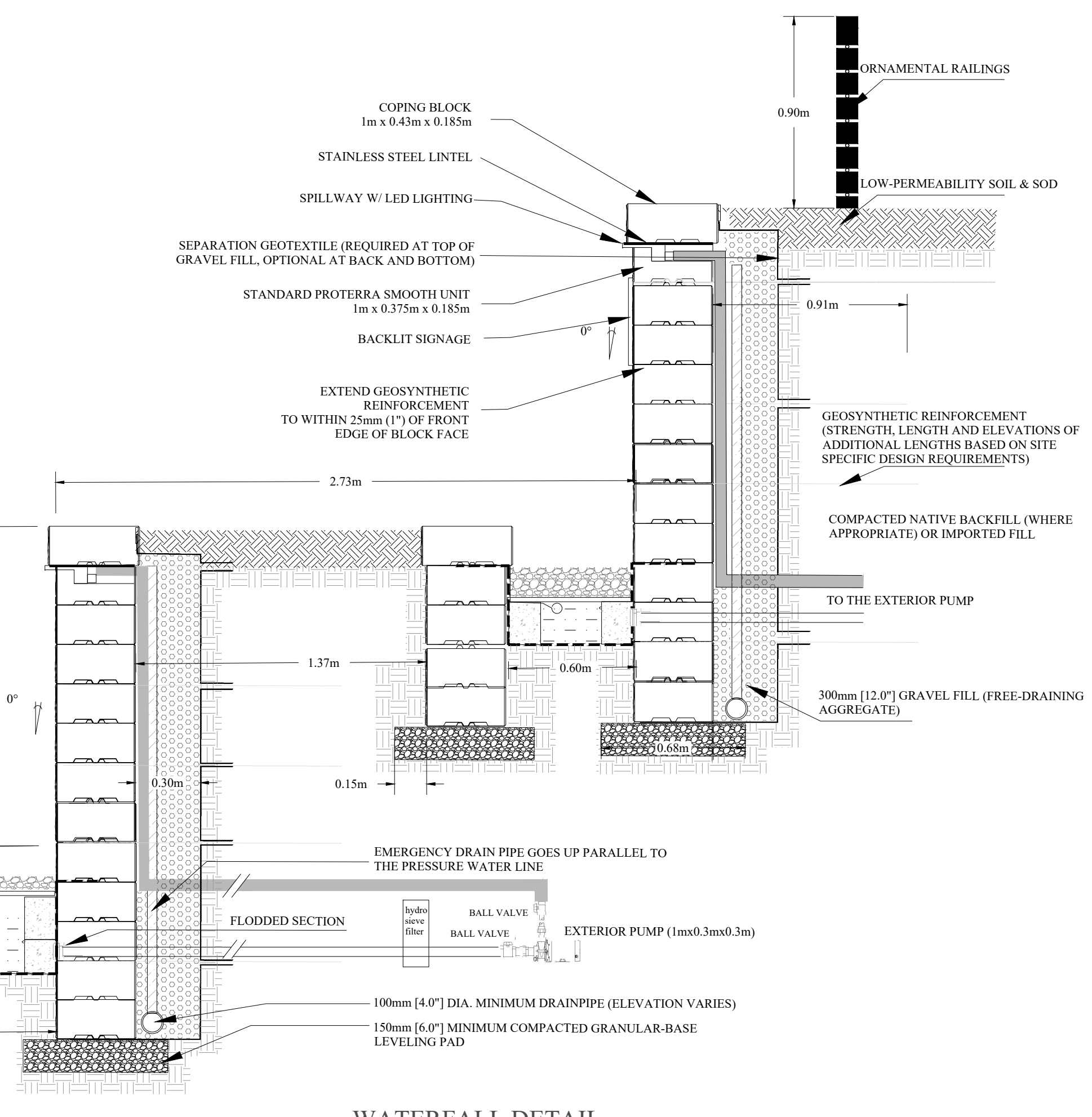
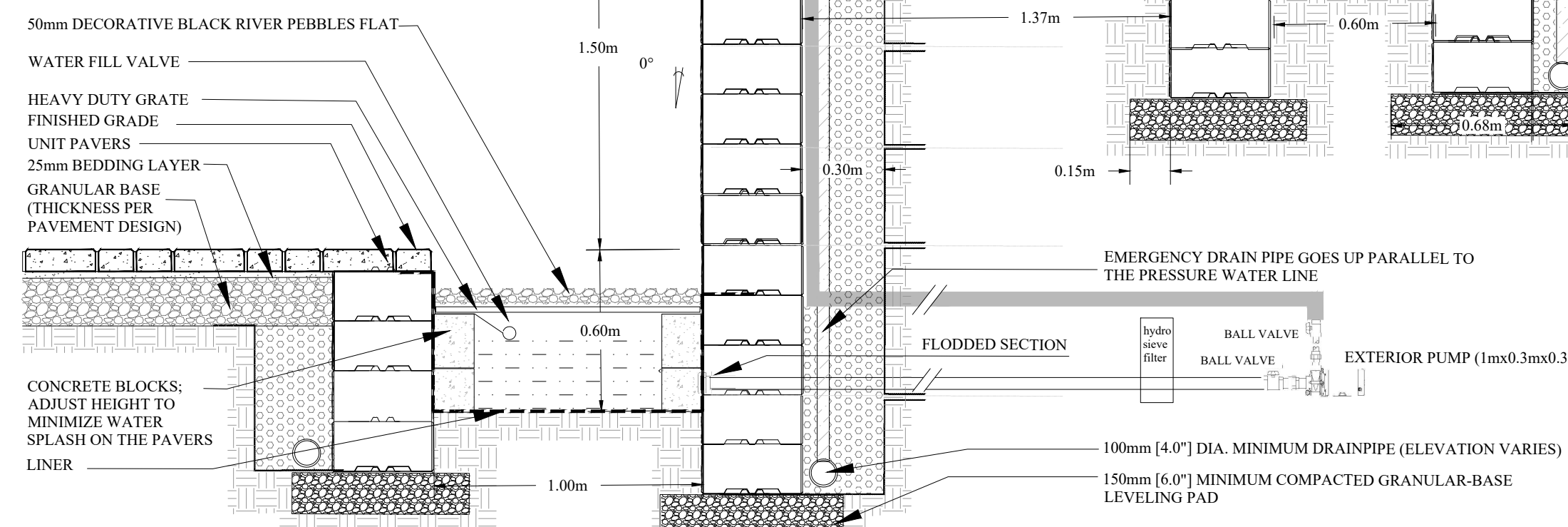
723 Mapleview Dr. E
 City of Barrie

SITE FURNISHINGS DETAILS

SCALE:	DATE:	DESIGNED BY:	REVIEWED BY:
NTS		SJT	NB
CITY FILE No. D11-004-2021	OUR FILE REF. # 25-20	DRAWN BY: SJT	L-6



SHOP DRAWINGS TO BE PROVIDED TO THE LANDSCAPE ARCHITECT BY THE CONTRACTOR FOR FINAL APPROVAL BEFORE COMMENCING CONSTRUCTION



MARQUIS GARDENS

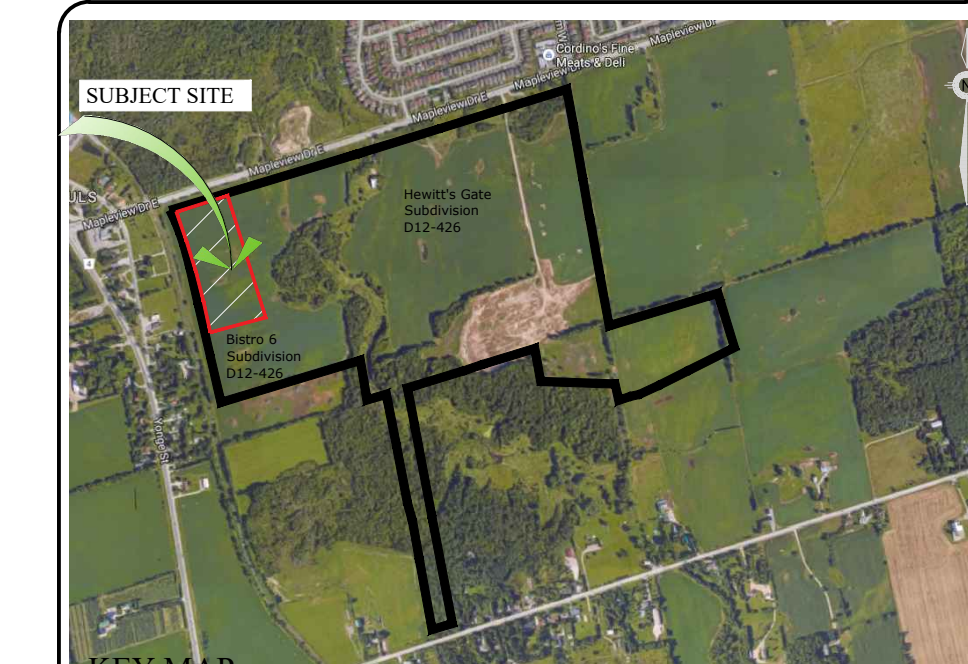
2813 Hwy 7, Concord, ON, L4C 1G2
 1-857-740-9111
 sales@marquisgardens.com
 www.marquisgardens.com

PLATTEN THE EDGE BETWEEN THE UNITS WHEN CONNECTED MORE UNITS IN A ROW.

STAINLESS STEEL WEIR - LONG LIP S, SEG3088

NOTE: ALL INFORMATION ENCLOSED WAS CURRENT AT THE TIME OF DEVELOPMENT, BUT SHOULD BE REVIEWED BY THE PRODUCT MANUFACTURER TO BE CONSIDERED ACCURATE.

WATERFALL DETAIL (waterfall kit by Marquis Gardens or similar equal)



GENERAL NOTES

CONTRACTOR IS RESPONSIBLE FOR ALL LOCATES INCLUDING ALL UNDERGROUND SERVICES PRIOR TO ANY EXCAVATION OR INSTALLATIONS. THE CONTRACTOR IS REQUIRED TO NOTIFY THE VARIOUS UTILITY COMPANIES 48 HOURS PRIOR TO THE COMMENCEMENT OF ANY WORK.

ANY ACCOMPANYING DOCUMENTATION RELATING TO THE LANDSCAPE PLAN AND/OR PRESERVATION PLAN SUCH AS TENDER DOCUMENTS AND CHANGE NOTICES ARE TO BE ENDORSED BY J.D.B. ASSOCIATES LIMITED PRIOR TO THE BEGINNING OF ANY SITE WORKS. IN THE EVENT THAT A DISCREPANCY THE DRAWING SHALL BE ASSUMED CORRECT.

IT IS THE RESPONSIBILITY OF THE PERSON OR PERSONS RESPONSIBLE FOR THE CONSTRUCTED WORKS TO NOTIFY THE LANDSCAPE ARCHITECT WHEN PREPARED FOR ANY REQUIRED INSPECTIONS AND SIGN OFFS.

SCHEDULED MEETINGS SHALL TAKE PLACE AT THE CLOSEST MUTUALLY CONVENIENT TIME.

No.	REVISION	DATE	APRVD.
1.	SUBMITTED TO THE CITY OF BARRIE	June 21, 2021	SJT
2.	AS PER REVISED GRADING PLAN	August 13, 2021	SJT
3.	AS PER CITY COMMENTS	January 25, 2022	SJT
4.	AS PER METROLINX COMMENTS & REVISED GRADING PLAN	February 25, 2022	SJT
5.	SUBMITTED TO THE CITY OF BARRIE	May 13, 2022	SJT

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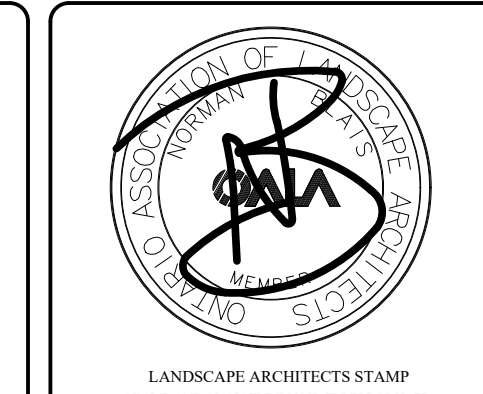
PRATT HANSEN GROUP INC.

CLIENT NAME

PROJECT LEGAL DESCRIPTION

BASE INFORMATION PROVIDED BY:
 The Jones Consulting Group Ltd.
 229 Mapleview Drive East, Unit 1
 Barrie, ON L4N 0W5
 Phone: (705) 734-2538 ext 294 Fax: (705) 734-1056
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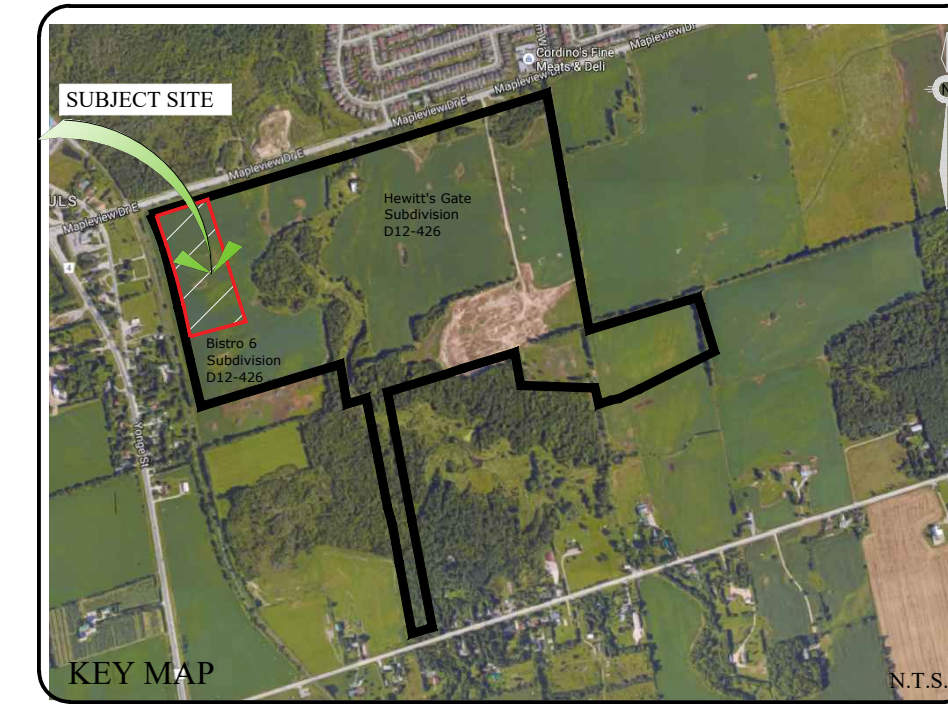
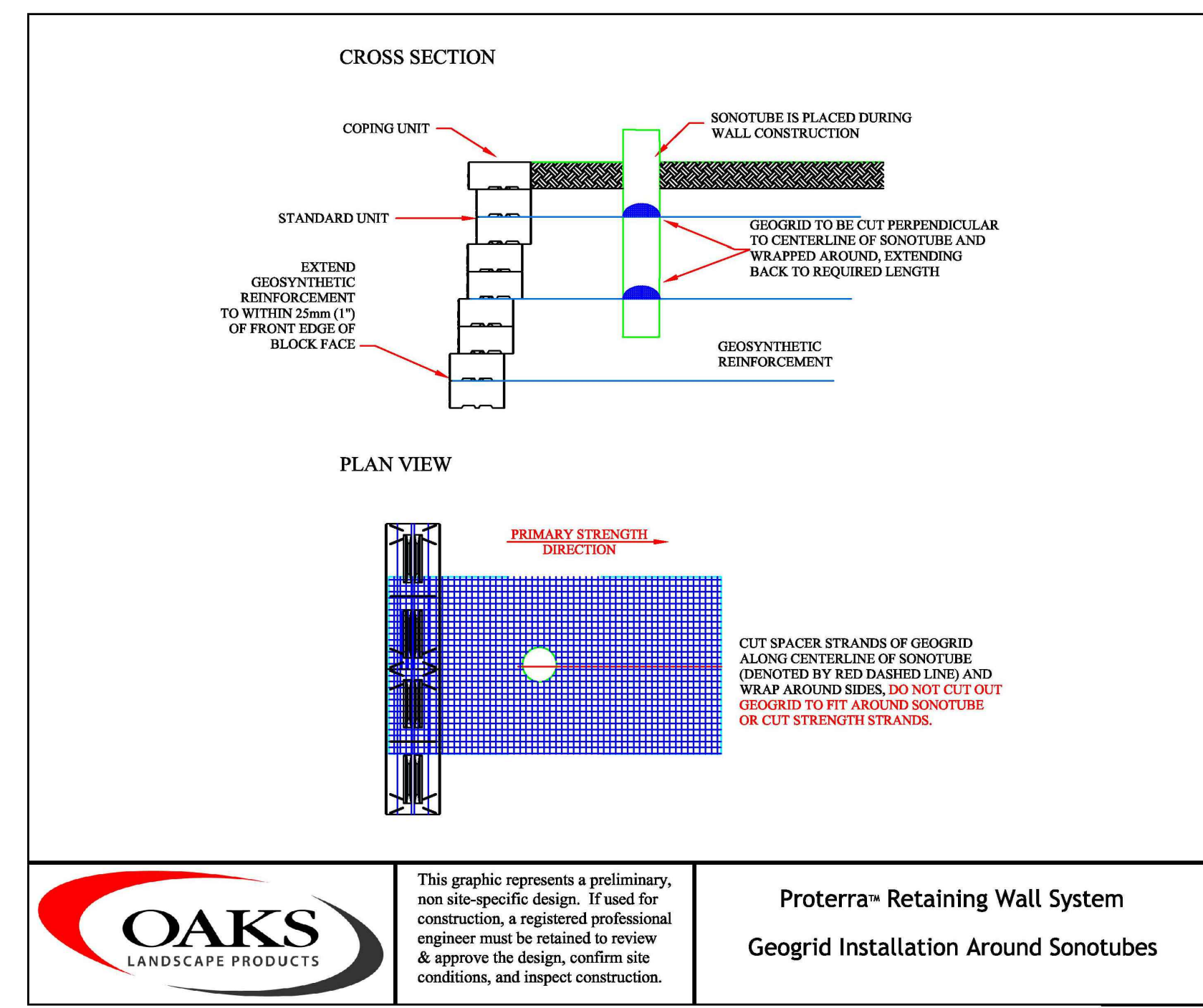
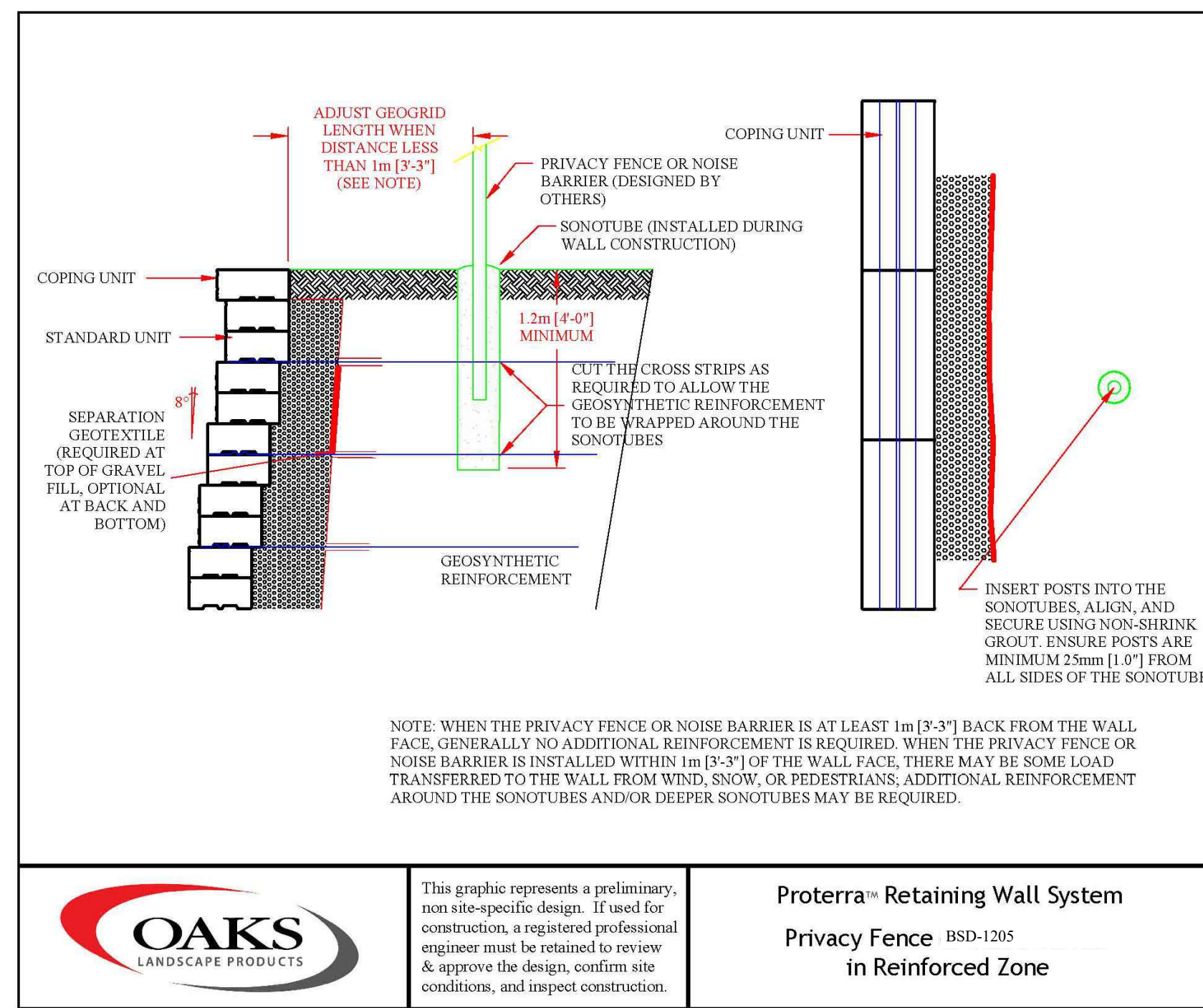
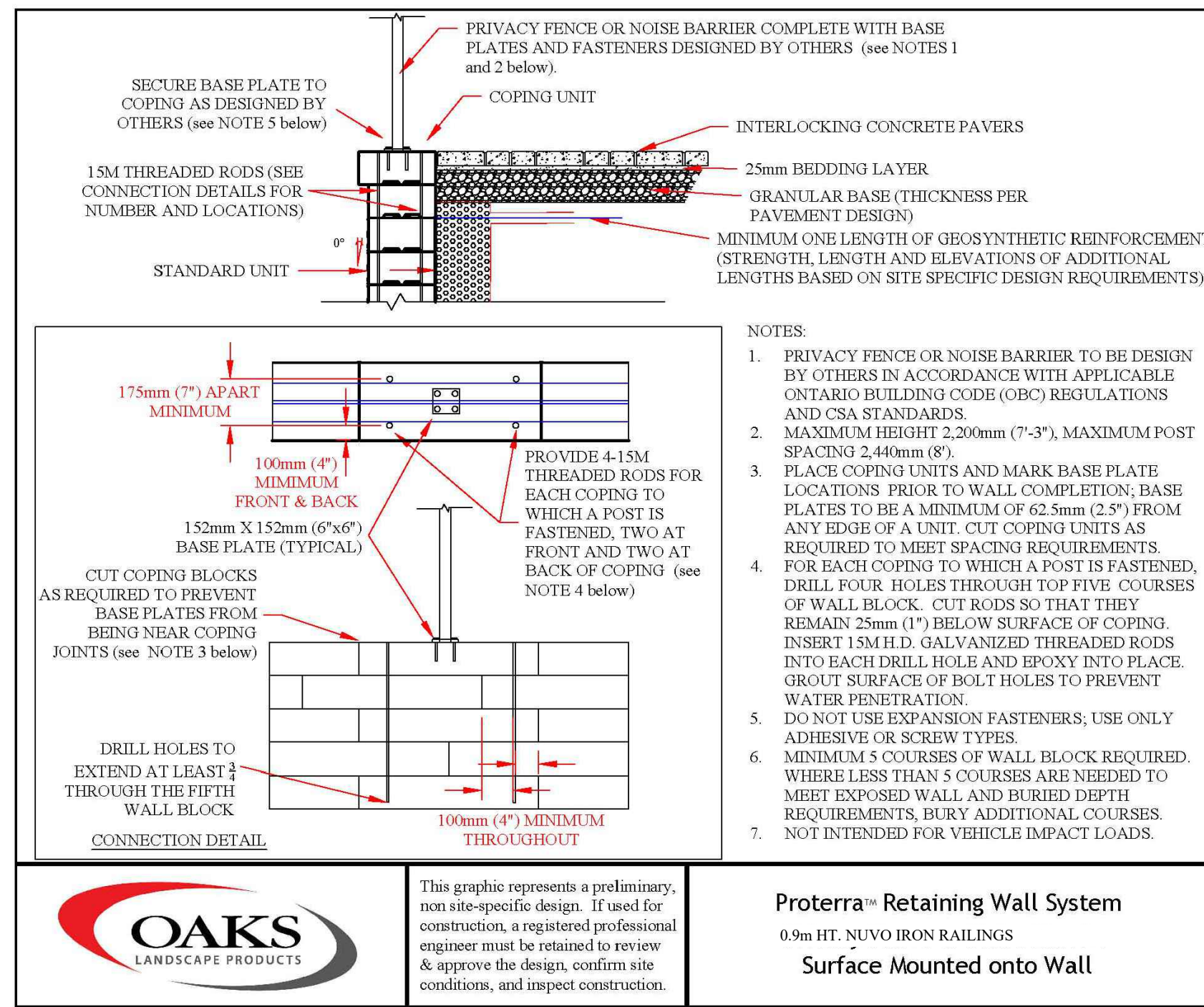
Fax: 705-722-5660
 Tel: 705-722-6278

Bistro 6 West ELEMENTS

723 Mapleview Dr. E
 City of Barrie

ENTRANCE FEATURE DETAILS

SCALE:	DATE:	DESIGNED BY:	REVIEWED BY:
AS SHOWN		SJT	NB
CITY FILE No. D11-004-2021	OUR FILE REF. # 25-20	DRAWN BY: SJT	L-7



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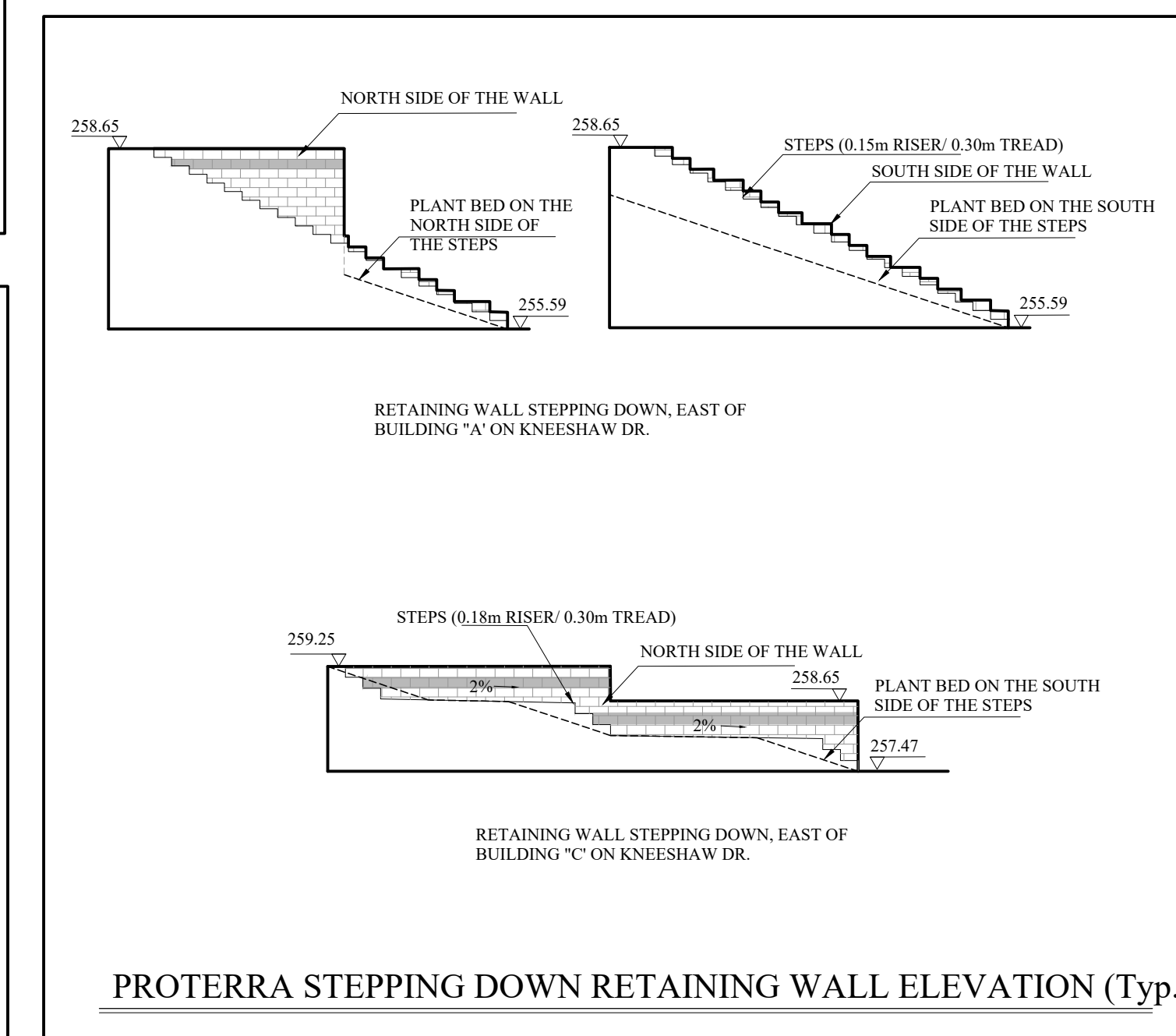
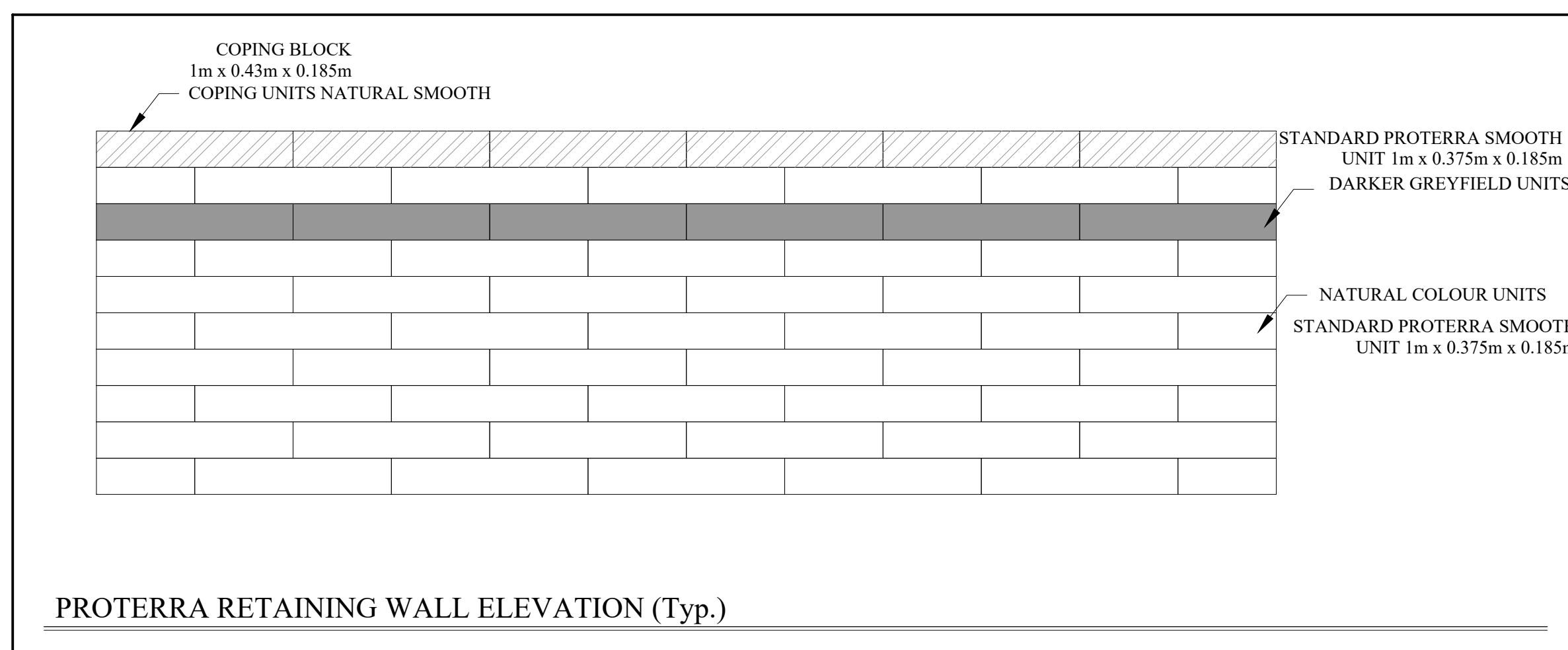
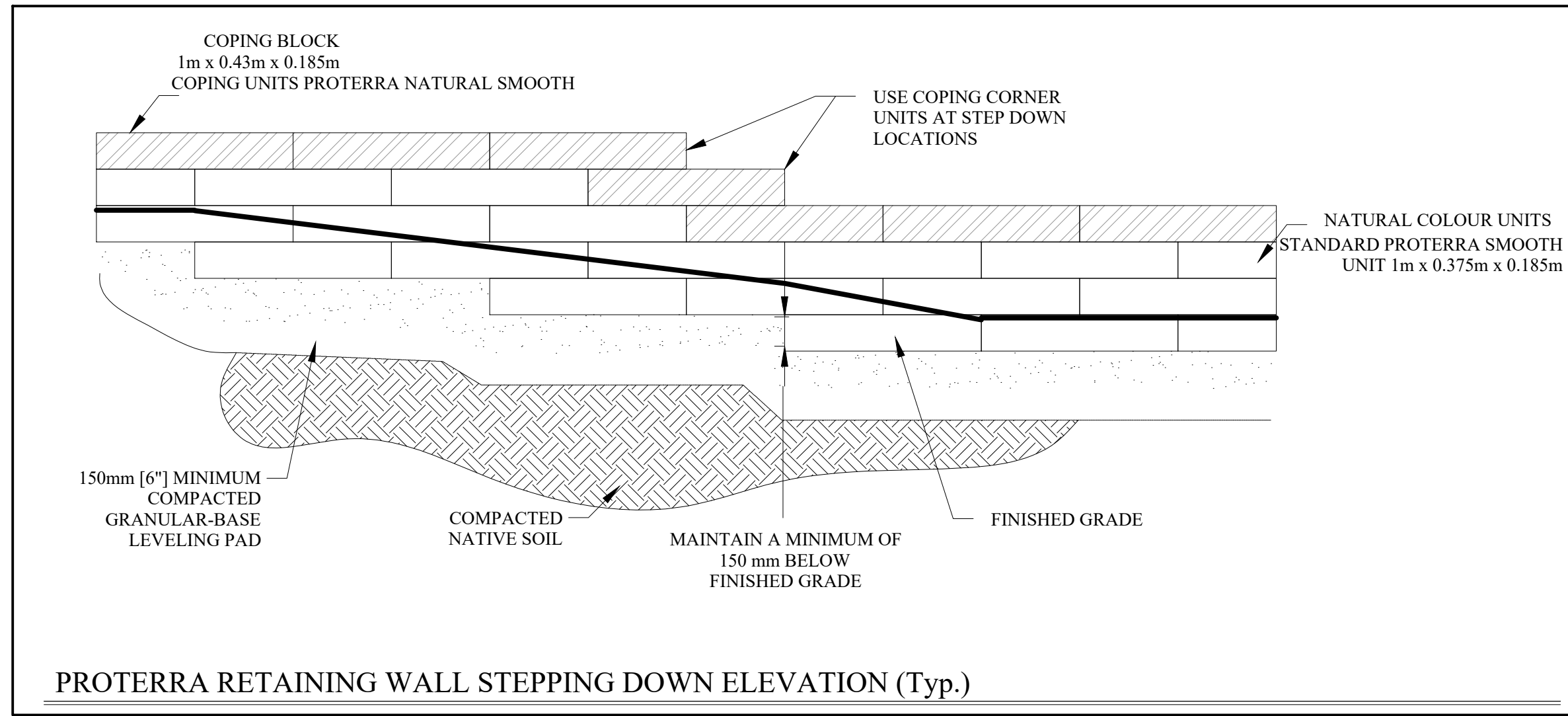
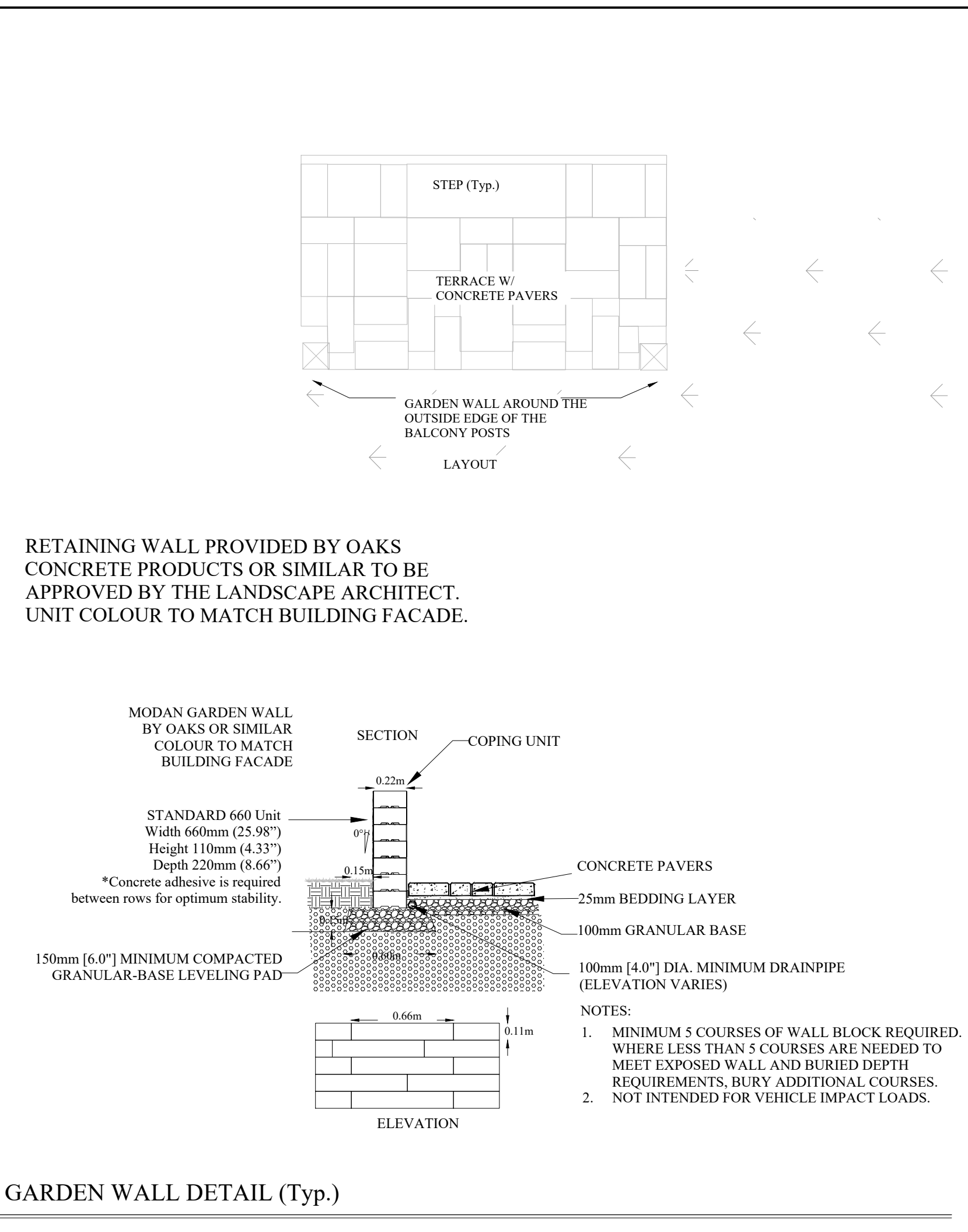
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REFER TO L-1 FOR THE LOCATION OF THE FENCE AND THE GUARDRAIL.

NOTE:
PROVIDE SHOP DRAWING SIGNED BY A STRUCTURAL ENGINEER BEFORE INSTALLATION OF ALL RETAINING WALLS.



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LANDSCAPE ARCHITECTS STAMP

Bistro 6 West ELEMENTS

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City of Barrie

RETAINING WALL DETAILS

SCALE:	DATE:	DESIGNED BY:	REVIEWED BY:
AS SHOWN		SJT	NB
CITY FILE No. D11-004-2021	OUR FILE REF. # 25-20	DRAWN BY: SJT	L-8