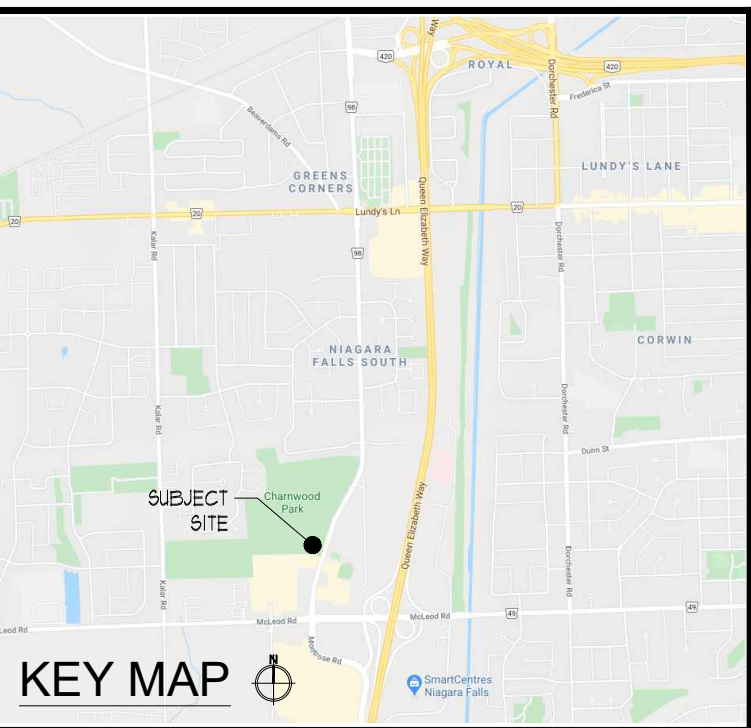


LANDSCAPE PLAN  
SCALE = 1:300

### PLANT MATERIAL

KEY	COMMON NAME	BOTANICAL NAME	QTY	SIZE	COND
Am	SINGLE-STEM SERVICEBERRY	Amelanchier canadensis (single-stem)	1	50mmcl	WB
Ar	RED MAPLE	Acer rubrum 'Sunset'	4	60mmcl	WB
As	SUGAR MAPLE	Acer saccharum	3	60mmcl	WB
Co	HACKBERRY TREE	Celtis occidentalis	2	60mmcl	WB
Dv	BUSH HONEYSUCKLE	Diervilla lonicera	48	60cm	POT
Gb	MAIDEN HAIR TREE	Ginkgo biloba	3	60mmcl	WB
Gt	SHADEMASTER LOCUST	Gleditsia triacanthos 'Shademaster'	3	60mmcl	WB
Lt	TULIP TREE	Liriodendron tulipifera	1	60mmcl	WB
Pe	LITTLE BUNNY FOUNTAIN GRASS	Pennisetum alopecuroides 'Little Bunny'	11	2'x1gcl	POT
Pr	WHITE SPRUCE	Picea glauca	4	150cm	WB
Pr	NORWAY SPRUCE	Picea abies	16	150cm	WB
Pr	WHITE PINE	Pinus strobus	1	200cm	WB
Pv	SHENANDOAH SWITCH GRASS	Panicum virgatum 'Shenandoah'	18	2'x1gcl	POT
Qr	RED OAK	Quercus rubra	1	60mmcl	WB
Sb	ANTHONY WATERER SPIREA	Spiraea bumalda 'Anthony Waterer'	40	60cm	POT
Ss	FALSE SPIREA	Sorbaria sorbifolia	8	60cm	POT
Tc	HICKS YEW	Taxus x media 'Hicksii'	2	60cm	POT
Tl	GLENLEVEN LINDEN	Tilia cordata 'Glenleven'	1	60mmcl	WB
To	WHITE CEDAR	Thuja occidentalis	56	150cm	POT



### LEGEND

- PROPOSED DECIDUOUS TREES
- PROPOSED CONIFEROUS TREES
- PROPOSED PLANTINGS
- PLANT KEYS - SEE PLANT MATERIALS LIST
- PROPOSED CONCRETE SIDEWALKS



ALL DRAWINGS REMAIN THE PROPERTY OF THE LANDSCAPE ARCHITECT AND SHALL NOT BE REPRODUCED OR REUSED WITHOUT THE LANDSCAPE ARCHITECT'S WRITTEN PERMISSION.  
THIS DRAWING SHALL NOT BE USED FOR CONSTRUCTION OR TENDER PURPOSES UNLESS SIGNED AND DATED BY BARRY R. MURPHY, OALA, C.S.L.A., LANDSCAPE ARCHITECT, LONDON, ONTARIO (S16) 667-3322.

Barry R. Murphy, OALA, C.S.L.A. DATE

DEC103	ISSUED FOR REVIEW	L
DATE	DESCRIPTION	No.

PLOTTING INFORMATION:  
PLOTTED DATE = DEC103  
PLOTTED SCALE = 1:1



PROJECT TITLE:  
CASCADES OF NIAGARA FALLS  
MONTROSE RD,  
NIAGARA FALLS, ONTARIO

DRAWING TITLE:  
**DRAFT**  
LANDSCAPE PLAN

DATE: NOVEMBER 2023	SCALE: AS NOTED	DRAWING NO. <b>L-1</b>
DRAWN: RKL/1 INC.	CHECKED BY: BRL/1	
PROJECT NO. 20-157Lc REVIEW		



NOTES:

1. CONTRACTOR TO REFER TO ALL SPECIFICATIONS
2. ALL PLANTS TO CONFORM TO CMAA - CANADIAN STANDARDS FOR NURSERY STOCK
3. GIVE LANDSCAPE ARCHITECT 48 HOURS NOTICE PRIOR TO INSTALLATION TO INSPECT PLANT MATERIAL AND FIT SPECIFICATIONS
4. DO NOT ALLOW AIR Pockets WHEN BACKFILLING
5. TREES FIT SIZE TO BE 10m 500mm UNDER ALL AROUND THAN POOL BALL
6. TREES TO BE PLANTER TO EXISTING GRADE AS CLOSE TO PREVIOUS EXISTING GRADE
7. PLANT "TREES" 10m - 500mm ABOVE DESIRED GRADE TO ALLOW FOR SOME SETTLING
8. DO NOT DAMAGE MAIN ROOTS WHEN INSTALLING STAKES
9. TREES TO BE 10m CALIPER OR GREATER
10. REMOVE THREE STAKES REMOVE STAKES AFTER 2 YEARS
11. NO TREE FIT SHALL BE LEFT OPEN OVERGROWING
12. THE ABOVE DOES NOT REPRESENT ANY PARTICULAR SPECIES
13. ALL TREES SHOWN IN MILLIMETERS
14. INSTALL 10m OF APPROVED MULCH

NOTES:	1. CONTRACTOR TO REFER TO ALL SPECIFICATIONS. 2. ALL PLANTS TO CONFORM TO AND EXCEED CANADIAN STANDARDS FOR NURSERY STOCK. 3. GIVE LANDSCAPE ARCHITECT ADVANCE NOTICE PRIOR TO INSTALLATION TO INSPECT PLANT MATERIAL AND PRE-INSTALLATION - SEE GENERAL SPECIFICATIONS. 4. DO NOT ALLOW AIR PROCKETS WHEN BACKFILLING. 5. ROOTING GROUND OF PLANTS TO BE AT LEAST 10 CM ABOVE FINISHED GRADE TO ALLOW FOR SETTLING. 6. TREE PIT SIZE TO BE 10 CM SQUARE UNDER AND 40 CM DIAMETER ABOVE ROOT BALL. 7. TREES UNDER 40 CM HEIGHT REQUIRE 20 STAKES. TREES 40 CM HIGH AND GREATER REQUIRE THREE STAKES. ALL STAKES TO BE REMOVED AFTER 7 YEARS. 8. DO NOT DAMAGE MAIN ROOTS WHEN INSTALLING STAKES. 9. NO TREE PIT SHALL BE LEFT OPEN OVERNIGHT. 10. ALL CONVOYING TREES TO BE UNWATERED FOR THE FIRST YEAR AFTER INSTALLATION. 11. THE ABOVE DOES NOT REPRESENT ANY PARTICULAR SPECIES. 12. ALL DIMENSIONS SHOWN IN MILLIMETERS. 13. INSTALL 10% OF APPROVED MULCH.
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**NOTES:**

- CONTRACTOR TO REFER TO ALL SPECIFICATIONS
- ALL PLANTS TO CONFORM TO DOLA - CANADIAN STANDARDS FOR NURSERY STOCK
- USE LANDSCAPE ARCHITECT 48-HOUR NOTED PROBE TO INSTALLATION TO INSPECT PLANT MATERIAL AND PREP PARAPETATION - (SEE GENERAL SPECIFICATIONS)
- DO NOT ALLOW AIR POKETS WHEN BACKFILLING
- NOTE PIT SIZE TO BE 1/2" ABOVE INSTALLED JOINT - ABOVE ROOT BALL
- NOTE SMALL BARE ROOT PLANTS TO GRADE AS IF BONE TO ITS PREVIOUSLY EXISTING GRADE
- NOTE PIT TO BE 10" ABOVE GRADE TO ALLOW FOR SOIL SETTLING
- DO NOT DAMAGE MAIN ROOTS WHEN INSTALLING STAKES
- NEEDS UNDER 100% CLIMATIC BELT - TWO STAKES - TREES 10cm diameter and GREATER REQUIRE 3 STAKES - REMOVE STAKES AFTER 1-2 YEARS
- NOTE PIT SHALL BE LEFT OPEN OVERNIGHT
- THE ABOVE DOES NOT REPRESENT ANY PARTICULAR SPECIES
- ALL DIMENSIONS SHOWN IN MILLIMETERS
- INSTALL 10cm OF APPROVED MULCH

**NOTES:**

1. CONTRACTOR TO REFER TO ALL SPECIFICATIONS.
2. ALL PLANTS TO CONFORM TO DLA - CANADIAN STANDARDS FOR NURSERY STOCK.
3. EVER GREENS AND ARBORS TO BE PLANTED IN CONTAINERS TO FACILITATE TRANSPLANTATION TO FINAL PLANT MATERIAL AND FILL PREPARATION - SEE GENERAL SPECIFICATIONS.
4. DO NOT ALLOW ANY ROOTS TO EXPOSE.
5. PROTECT CROWN OF ROOT BALLS ABOVE FINISHED GRADE TO ALLOW FOR SETTLING.
6. PLANTS TO BE PLANTED IN GROUPS OF 3'S, 5'S, 7'S, 9'S AND 11'S.
7. SHORES PLANTED IN GROUPS SHALL BE SET IN CONTIGUOUS BED.
8. 1" ABOVE FINISHED GRADES TO BE PLANTED IN CONTIGUOUS BED.
9. ALL DIMENSIONS GIVEN IN MILLIMETERS.
10. INSTALL TYPICAL APPROVED DETAILS REFERENCE TO DRAWING PLANTING DETAILS.
11. FEEL BACK 2" OF 1/2" DRAIN DO NOT REMOVE CUT AND REMOVE ALL SORE FROM TOP HALF OF ROOT BALLS TO EXPOSE ROOTS TO PLANTING MATERIAL.
12. CONTAINER GROWN MATERIALS.
13. PLANTS TO BE PLANTED IN CONTIGUOUS BEDS OF STONES LAYERS OF 1/4" GRAVEL (THICKER THAN 1/2" HIGH) AND ALL ROOTS OR OTHER EXTRANEAS MATERIAL AHEAD WITH SOIL TRIPLE LAYER OF PLANTING MATERIAL TO BE PLANTED IN CONTIGUOUS BED.
14. UNPLANTED SOIL TO BE TAMPED TO FIRM SETTLEMENT.
15. ALL SOILS TO BE USED IN A TYPICAL OF 12" OR GREATER AHEAD FROM ALL BUILDING EDGE UNLESS OTHERWISE NOTED.

<p><b>NOTES:</b></p> <ol style="list-style-type: none"> <li>1. SEE ISLAND PLANTING DETAIL FOR CROSSSECTION</li> <li>2. TRENCH TO BE CONTINUOUS</li> <li>3. TRENCH GIE TO BE MIN 300mm WIDER ALL AROUND THAN ROOT BALL.</li> <li>4. ENSURE MINIMUM 300mm BETWEEN TRENCH AND EDGE OF CURB.</li> </ol>	<p><b>SECTION</b></p>
<p><b>CONTINUOUS TRENCH DETAIL - N.T.S.</b></p>	

SHRUB PLANTING DETAIL - N.T.S.

CONTINUOUS TRENCH DETAIL - N.T.S.

GENERAL PLANTING SPECIFICATIONS:

- [illegible]

### GRADING

1. CONTRACTOR TO ENSURE POSITIVE DRAINAGE IN ALL AREAS.
2. ALL GRADING TO BE IN ACCORDANCE WITH SITE ENGINEERS DRAWINGS.
3. SOIL SHALL BE SCARIFIED FREE OF ALL STONES, ROOTS, BRANCHES LARGER THAN 1" (25MM) AND COMPACTED TO 85% S.P.D.
4. ALL SUBSOIL TO BE SCARIFIED TO A DEPTH OF 6" (150 MM) PRIOR TO THE INSTALLATION OF TOPSOIL TO ENSURE NO HARDPAN CONDITIONS.
5. CONTRACTOR TO NOTIFY LANDSCAPE ARCHITECT PRIOR TO INSTALLATION OF TOPSOIL TO APPROVE SUBBASE.
6. DIRECT ALL RAINGUTTERS AND SUMP LEADERS AWAY FROM PLANTING BEDS AND TO THE DESIGNATED SWALES.
7. NOTIFY LANDSCAPE ARCHITECT N UNIFORM OF ANY SUBSTANTIAL UT WE CONDITIONS.

TOPSOIL

2. AT THE CONTRACTORS EXPENSE, SOIL TEST IS TO BE COMPLETED BY A REPUTABLE LABORATORY. THE SOIL TEST IS TO BE COMPLETED AND IF NECESSARY, RECOMMENDATIONS FROM THE LABORATORY ARE TO BE INCLUDED. THE RESULTS OF SOIL TESTS AND RECOMMENDATIONS ARE TO BE PROVIDED TO THE LANDSCAPE ARCHITECT FOR APPROVAL ONE WEEK PRIOR TO WORK COMMENCING. TOPSOIL FOR PLANTING BEDS IS TO BE A FERTILE, FRAGILE, NATURAL LOAM TO A MINIMUM DEPTH OF 15" (40CM), AND A MINIMUM DEPTH OF 4" (100MM) FOR TURF AREAS. UNLESS OTHERWISE STATED, TOPSOIL SHALL CONTAIN NOT LESS THAN 4% ORGANIC MATTER FOR CLAY LOAMS AND NOT LESS THAN 2% ORGANIC MATTER FOR SANDY LOAM TO A MAXIMUM OF 5% AND CAPABLE OF SUSTAINING VIGOROUS PLANT GROWTH; FREE OF SUBSOIL, CONTAMINATION, ROOTS AND STONES OVER 50MM DIAMETER; REASONABLY FREE OF WEEDS, AS DETERMINED BY THE LANDSCAPE ARCHITECT, AND HAVING A PH RANGING FROM 6.0 TO 7.0.

MULCH

1. ALL TREES, SHRUBS AND PLANTING AREAS ARE TO BE MULCHED UNLESS OTHERWISE NOTED.
2. CONTRACTOR TO INSTALL 3" (75MM) OF 'GRO-BARK' MEDIUM MULCH IN ALL AREAS.
3. ALTERNATIVES MAY BE ACCEPTED - CONTRACTOR TO PROVIDE 3 SAMPLES FOR WRITTEN APPROVAL TO THE LANDSCAPE ARCHITECT.

## PLANT MATERIALS

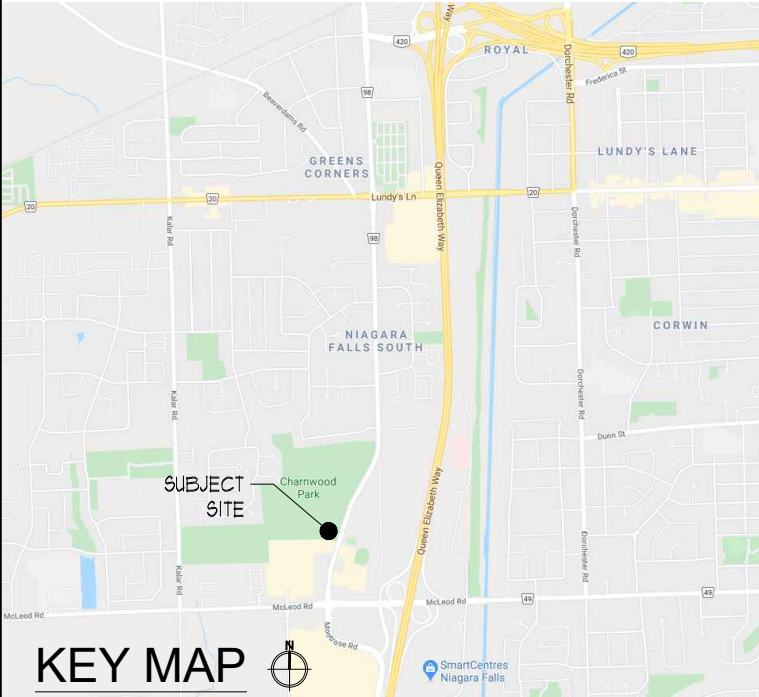
- CONTRACTOR TO VERIFY ALL PLANT MATERIAL ON DRAWINGS IS PLANT MATERIAL LIST#18! REPORT ALL DISCREPANCIES AT THE TIME OF MEETING.
- SUBSTITUTIONS WILL NOT BE ACCEPTED WITHOUT WRITTEN CONFIRMATION BY THE LANDSCAPE ARCHITECT.
- CONTRACTOR TO VERIFY ALL PLANT LIST#18 BUT LIST#19 MAY BE USED IF PLANT MATERIAL IS TO BE MADE UNDER THE DIRECTION OF THE LANDSCAPE ARCHITECT. ADJUSTMENTS TO PLANTING WITHOUT CONSENT OF LANDSCAPE ARCHITECT AND OR PROJECT MANAGER WILL BE AT OWNERS RISK. CONTRACTOR TO OBTAIN ALL NECESSARY PERMITS AND APPROVALS. PLANT MATERIAL THAT HAS TO BE RELOCATED AS A RESULT WILL BE AT THE COST OF THE CONTRACTOR.
- LANDSCAPE ARCHITECT TO INSPECT ALL PLANT MATERIAL ON SITE OR AT ITS SOURCE PRIOR TO INSTALLATION. CONTRACTOR IS TO GIVE ACCESS TO ALL PLANT MATERIAL TO LANDSCAPE ARCHITECT AT ALL TIMES.
- CONTRACTOR TO NOTIFY LANDSCAPE ARCHITECT IN WRITING IF ADVERSE WEATHER MAY IMPACT THE HEALTH OF THE PLANT MATERIAL AT ANY TIME.
- ALL TREES SHALL BE AT LEAST 1" (60MM) UNDER BARK OR THE TREE IS TO BE PLANTED AND SHALL BE DEEP ENOUGH SO THAT THE TREE CAN BE PLANTED AT LEAST 1" (60MM) UNDER BARK. ALL TREES OF 1" (60MM) OR SMALLER SHALL BE PLACED UNDER BARK. TREES 1" (60MM) NOT TO BE LEFT OPEN OVERNIGHT.
- ALL TREES OF 1" (60MM) TO A DEPTH OF 8" (40MM) AND FILLER WITH APPROVED BARK MULCH. MATERIAL SHEDS ARE NOT TO BE LEFT OPEN OVERNIGHT.
- ALL TREES SHALL HAVE AN EARTH BARRIER AT ITS BASE WITH A DIAMETER AS LARGE AS EXCAVATED AREA AND SHAPED TO RETAIN MULCH.
- ALL BARK MULCH BE CUT AND DURED BELOW SURFACE DURING PLANTING.
- CONTRACTOR TO NOTIFY LANDSCAPE ARCHITECT IN WRITING IF ADVERSE WEATHER MAY IMPACT THE HEALTH OF THE PLANT MATERIAL AT ANY TIME.
- ALL SHRUBS PLANTED UNDER 1" OF SALTED ROADWAYS, PARKING AND SIDEWALKS TO BE PROTECTED WITH SALT BARRIER THROUGHOUT THE LIFE OF THE PROJECT.
- CONTRACTOR TO NOTIFY LANDSCAPE ARCHITECT IN WRITING IF ADVERSE WEATHER MAY IMPACT THE HEALTH OF THE PLANT MATERIAL AT ANY TIME.
- DIRECT ALL RAINWATERS AND SUMP LEADERS AWAY FROM PLANTING BEDS AND TO DESIGNATED DRAINAGE DRAINS.
- CONTRACTOR TO NOTIFY LANDSCAPE ARCHITECT IN WRITING IF ADVERSE WEATHER MAY IMPACT THE HEALTH OF THE PLANT MATERIAL AT ANY TIME.
- CONTRACTOR IS TO REMOVE ALL STUMP AND LOG WRECKS AFTER 3 FULL GROWING SEASONS.



## 500

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## WATERING

- 1 DURING THE WARRANTY PERIOD BETWEEN MAY 1 AND SEPTEMBER 5 OF EACH YEAR WATERING OF ALL PLANTS SHALL BE CARRIED OUT  
2 NO LESS THAN 6 TIMES PER YEAR IN ACCORDANCE WITH THE WATERING SCHEDULE TO BE DETERMINED BY THE OWNER, UNLESS OTHERWISE  
3 SPECIFIED IN WRITING BY THE OWNER. THE WATERING SHALL BE CARRIED OUT BY THE CONTRACTOR USING A WATERING SYSTEM OF  
4 THE TYPE AND CAPACITY SPECIFIED IN THE SPECIFICATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF THE  
5 AUTOMATED IRRIGATION SYSTEM HAS BEEN PROVIDED FOR THE CONTRACTOR'S OBLIGATION TO PROVIDE WATER TO THE SITE  
6 IF ABOVE WITHIN THE BUILDING ENVELOPE ARE NOT AVAILABLE.  
7 THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF THE IRRIGATION SYSTEMS, GROUND COVER AND GRASSED AREAS WATERING OF GRASSED  
8 AREAS TO BE CARRIED OUT ON A REGULAR BASIS AND CONTINUING WITH INTENSITY DEPENDENT ON AMOUNT OF RAINFALL. NEW BOD THAT  
9 HAS BEEN LAID SHOULD BE KEPT MOIST FOR 4 TO 5 WEEKS OR UNTIL IT HAS FIRMLY ROOTED INTO THE EXISTING SOIL.  
10 ALL CONSPICUOUS TREES SHALL BE WATERED IN LATE FALL, JUST PRIOR TO FREEZING.  
11 THE CONTRACTOR SHALL BE ALLOWED 50% OF THE DRAINAGE OF THE SITE. IF THERE ARE THREE GUARDS DOES NOT OCCUR DAMAGE  
12 SHALL BE IMMEDIATELY REPAIRED TO THE SATISFACTION OF THE OWNER AT NO ADDITIONAL COST.



<b>RON KOUDY'S</b> <b>LANDSCAPE ARCHITECTS INC.</b>		
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THIS DRAWING SHALL NOT BE USED FOR CONSTRUCTION OR TENDER PURPOSES UNLESS SIGNED AND DATED BY BARRY R. MURPHY, O.A.S., C.S.L.A., LANDSCAPE ARCHITECT, LONDON, ONTARIO (919) 867-3322.		
<b>Barry R. Murphy, O.A.S., C.S.L.A.</b>	<b>DATE _____</b>	
DEC/1/23	ISSUED FOR REVIEW	I
DATE	DESCRIPTION	No.
PLOTTING INFORMATION: PLOTTED DATE = DEC/1/23 PLOTTED SCALE = 1/1		
FOR REVIEW ONLY		
<p align="center"><b>PROJECT TITLE:</b></p> <h2 align="center">CASCADES OF NIAGARA FALLS</h2> <p align="center">MONTROSE RD. NIAGARA FALLS, ONTARIO</p>		
<p><b>DRAWING NUMBER:</b></p> <h1 align="center">DRAFT</h1> <p align="center">LANDSCAPE DETAILS</p>		
<small>DATE:</small> <b>NOVEMBER 2023</b>	<small>SCALE:</small> AS NOTED	DRAWING NO.:  <b>L-2</b>
<small>DRAWN:</small> RKLA INC.	<small>CHECKED BY:</small> B.R.M.	
<small>PROJECT NO.:</small> 20-157LC REVIEW		