



ISSUES		
No.	DESCRIPTION	DATE
1	ISSUED FOR SPC #1	2025-12-12
2	ISSUED FOR SPC #2	2026-05-08
3	ISSUED FOR DD & PERMIT #1	2026-07-07

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PROJECT

**CISCO OTTAWA CAMPUS
MAB**

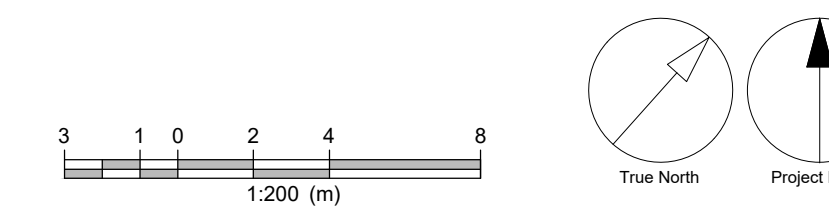
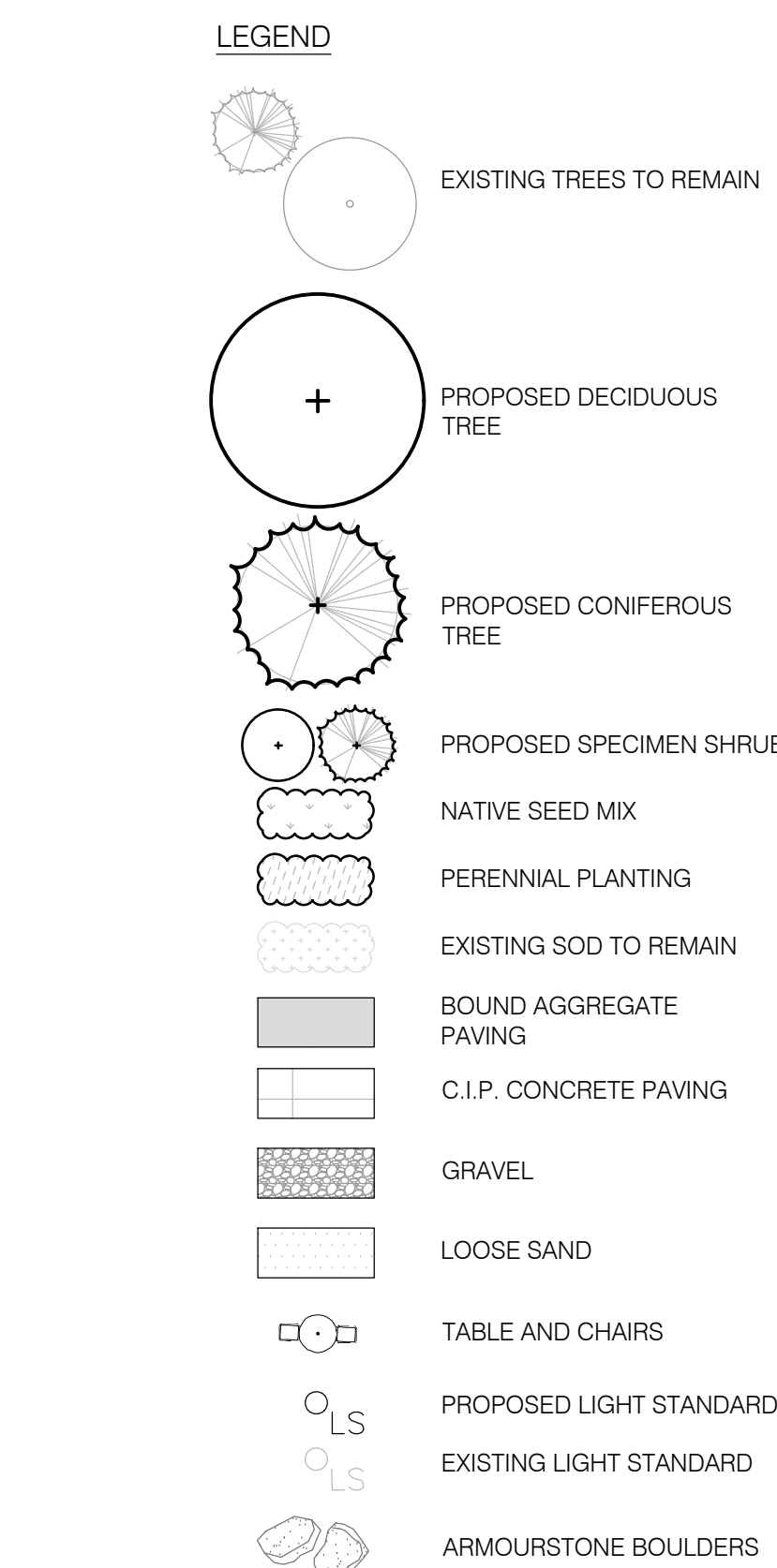
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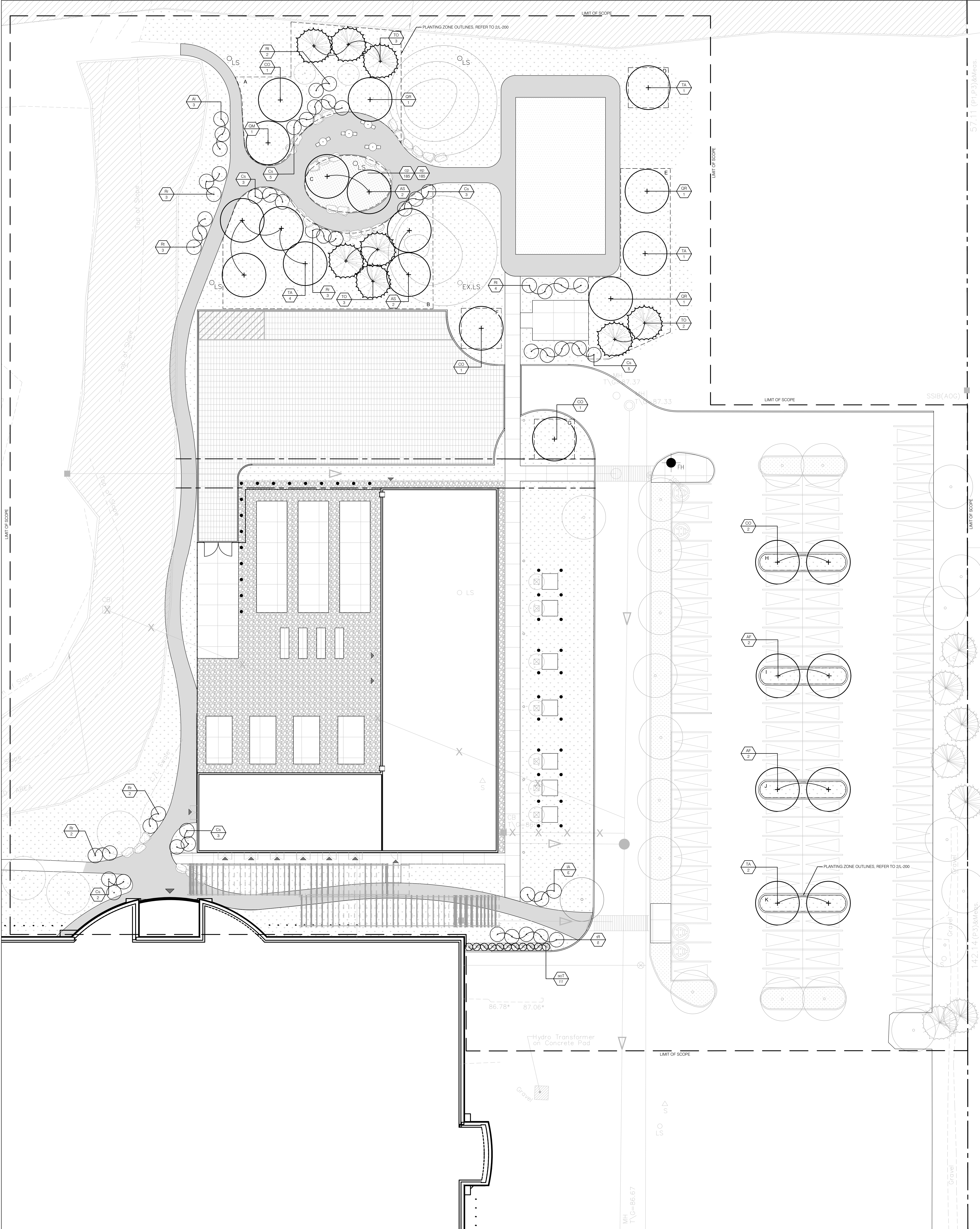
PROJECT NO: MAB:30298433	APPLICATION NO: PC2025-0127
DRAWN BY: ARCADIS	CHECKED BY: BJ
PROJECT MGR: BJ	APPROVED BY: NK

SHEET TITLE

TREE PROTECTION
AND REMOVALS PLAN

SHEET NUMBER	ISSUE
L-001	2





1 PLANTING PLAN
L-200 1:200

NATIVE PERENNIAL WILDFLOWER BLEND

8105 - NATIVE PERENNIAL WILDFLOWER BLEND BY OSC SEEDS' OR APPROVED EQUAL

12% BLACK EYED SUSAN (RUDBECKIA HIRTAE)
5% BLANKET FLOWER (GAILLARDIA ARISTATA)
20% BLUE FLAX (LINUM PERENNE)
3% BUTTERFLY WEED (ASCLEPIAS TUBEROSA)
1% CANADA GOLDENROD (SOLIDAGIA CANADENSIS)
5% EVENING PRIMROSE (OENOTHERA BIENNIS)
10% LANCE LEAF COREOPSIS (COREOPSIS LANCEOLATA)
5% OX EYE SUNFLOWER (HELIANTHUS HELIANTHOIDES)
15% PARTIDGE PEA (CHASMANTHUS LATIFOLIUM)
1% PRAIRIE BLAZING STAR (LIATRIS PSYCNOSTACHYA)
7% PURPLE CONEFLOWER (ECHINACEA PURPUREA)
5% SHASA DAISY (CHRYSANTHEMUM MAXIMUM LUECANTHEMUM)
2% TALL WHITE BEARDTONGUE (PENSTEMON DIGITALIS)
3% WILD BERGAMOT (MONARDA FISTULOSA)
5% WILD LUPINIS (LUPINE PERENNIS)

SOW AT 25KG/HA (23 LBS/ACRE) OR 500G/180 SQ.M. FOR SMALLER AREAS

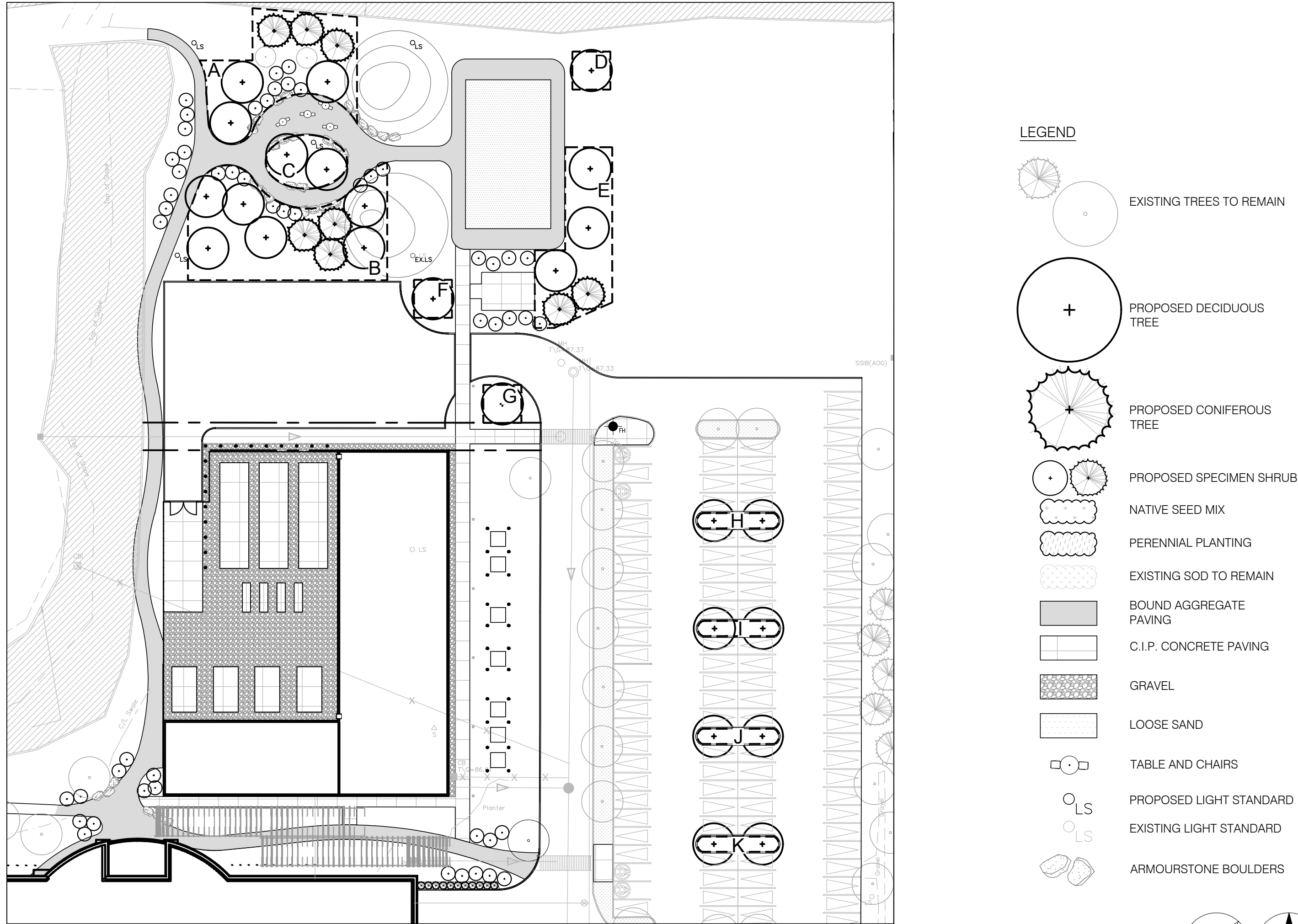
TOTAL AREA SHOWN = 3647 m²

PLANT LIST							
KEY	QTY	BOTANICAL NAME	COMMON NAME	SPACING	SPECIFICATION/ NOTES	NATIVE	DROUGHT TOLERANT
Deciduous Trees							
AF	4	<i>Acer x Freemanii</i>	Freeman Maple	As per plan	70mm WB	X	
AS	4	<i>Acer saccharum</i>	Sugar Maple	As per plan	70mm WB	X	
CO	4	<i>Celtis occidentalis</i>	Common Hackberry	As per plan	70mm WB	X	
TA	7	<i>Tilia americana</i>	Basswood	As per plan	70mm WB	X	
QM	2	<i>Quercus Macrocarpa</i>	Burr Oak	As per plan	70mm WB	X	
QR	3	<i>Quercus Rubra</i>	Red Oak	As per plan	70mm WB	X	
Coniferous Trees							
TO	8	<i>Thuja occidentalis</i>	Eastern White Cedar	As per plan	70mm WB	X	X
Specimen Shrubs							
Al	6	<i>Amelanchier Laevis</i>	Serviceberry	As per plan	80cm 5 gal	X	
Cs	20	<i>Cornus sericea</i>	Red Osier Dogwood	As per plan	80cm 5 gal	X	
Rr	15	<i>Rosa rugosa</i>	Rugosa rose	1000mm O.C	80cm 5 gal		X
Rt	9	<i>Rhus typhina "Tiger Eyes"</i>	Tiger Eye Cutleaf Sumac	As per plan	80cm 5 gal	X	X
Toe	11	<i>Thuja occidentalis "Emerald"</i>	Emerald Cedar	1000mm O.C	80cm 5 gal		
Perennials							
cp	185	<i>Carex pensylvanica</i>	Pennsylvania Sedge	450mm O.C	3 gal	X	X
ep	185	<i>Echinacea purpurea</i>	Purple Coneflower	450mm O.C	3 gal	X	X

NOTE: WITH OAK WILT SPREADING INTO ONTARIO, IT IS STRONGLY RECOMMENDED TO PLANT OAK TREES A MINIMUM OF 15m APART TO REDUCE THE RISK OF SPREAD THROUGH ROOT GRAFTING. CONTRACTOR TO FOLLOW PLANTING LAYOUT AS SHOWN AND ENSURE AT LEAST 15m BETWEEN OAK TREES.

SOIL VOLUME MATRIX (REFER TO SOIL VOLUME PLAN)					
PLANTING ZONES	VOLUME CALCULATION AT 1.5m SOIL DEPTH	TREE QUANTITY	OTTAWA TARGET SOIL VOLUME (m ³)	DESIGN SOIL VOLUME (m ³)	ADEQUACY PERCENTAGE
A	274m ² x 1.5m = 411m ³	8	144	411	285%
B	385m ² x 1.5m = 577.5m ³	9	162	577	356%
C	72m ² x 1.5m = 108m ³	2	36	108	300%
D	30m ² x 1.5m = 45m ³	1	30	45	150%
E	182m ² x 1.5m = 273m ³	5	90	273	303%
F	30m ² x 1.5m = 45m ³	1	30	45	150%
G	30m ² x 1.5m = 45m ³	1	30	45	150%
H	25m ² x 1.5m = 37.5m ³	2	36	37.5	104%
I	25m ² x 1.5m = 37.5m ³	2	36	37.5	104%
J	25m ² x 1.5m = 37.5m ³	2	36	37.5	104%
K	25m ² x 1.5m = 37.5m ³	2	36	37.5	104%

- TREE PLANTING IN SENSITIVE CLAY
- The landscape plans have been developed in accordance with the geotechnical report: Geotechnical Investigation, Proposed MAB Building, Cisco Campus, Ottawa, Ontario. Prepared by WSP Canada Inc., April 8, 2026.
 - The following city of ottawa clay soils guideline applies: Guidelines for Tree Planting in Sensitive Marine Clay Soils (2017).
 - The soil volumes provided are sufficient for a reasonable chance of tree survival. All new trees meet the minimum soil volume requirements of the following, based on a depth of 1.5m below finished grade.
 - Where one tree is planted: minimum of 30m³ of soil provided.
 - Where multiple trees share a continuous soil volume: minimum of 18m³ of soil provided per tree.



2 SOIL VOLUME PLAN
L-200 1:500

CLIENT

CISCO

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PROJECT

CISCO OTTAWA CAMPUS
MAB

2000 Innovation Drive,
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MAB:30298433

APPLICATION NO:
PC2025-0127

DRAWN BY:
ARCADIS
PROJECT MGR:
BJ

CHECKED BY:
BJ
APPROVED BY:
NK

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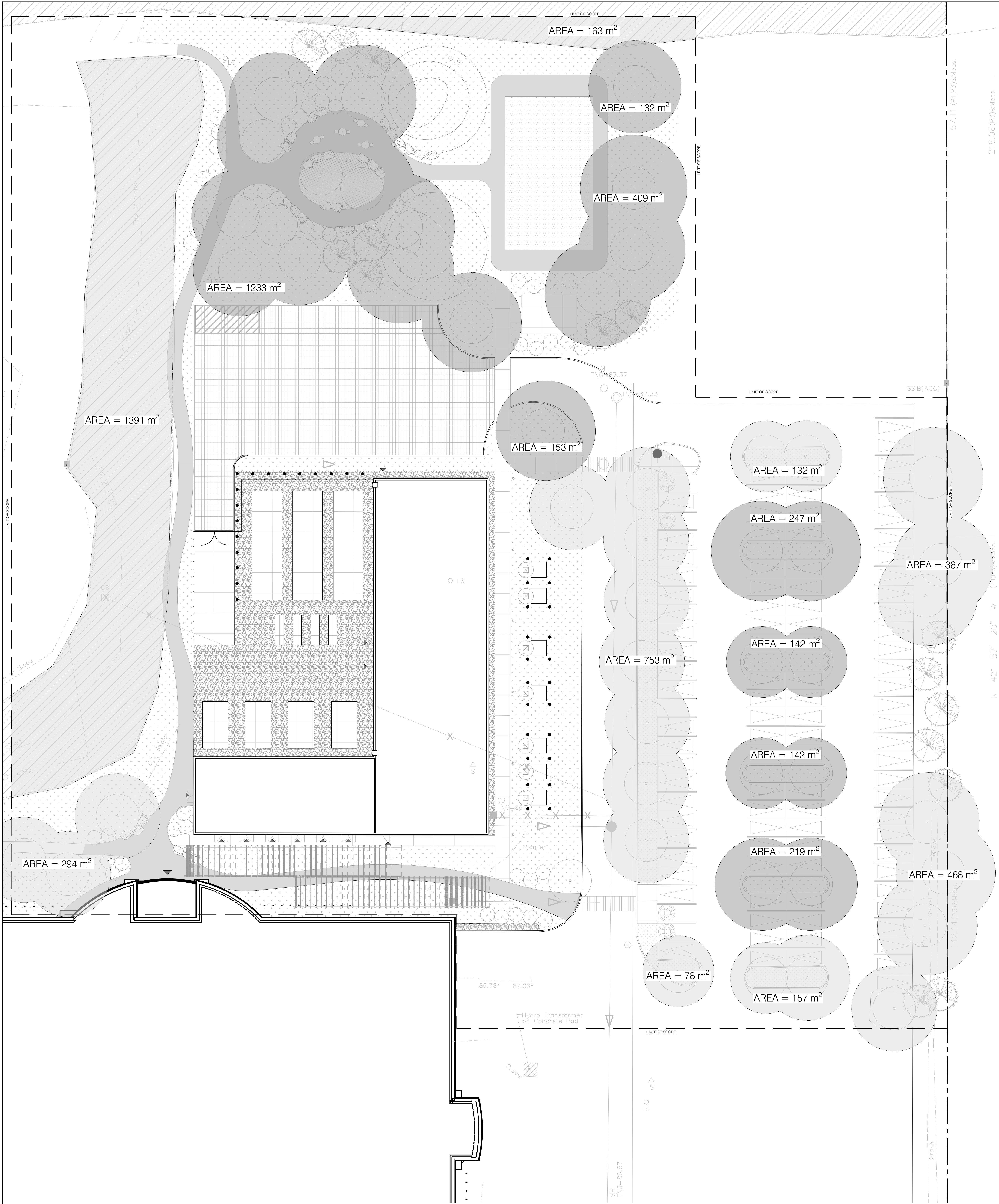
PLANTING PLAN

SHEET NUMBER

L-200

ISSUE

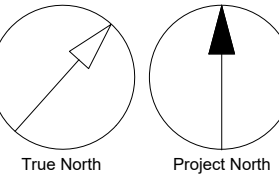
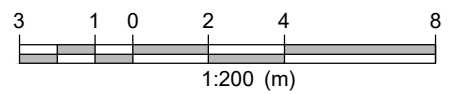
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40-YEAR CANOPY PROJECTION:
PROPOSED CANOPY COVER AT MATURITY = 2,620 m²
EXISTING CANOPY COVER (PROJECTED AT MATURITY) = 3,916 m²
TOTAL PROJECTED CANOPY AREA = 6,536 m²
TOTAL SCOPE AREA = 15,776 m²
PROJECTED CANOPY COVER = 41.4%

- 40-YEAR CANOPY CALCULATION METHODOLOGY:**
1. TREE SPECIES DIAMETER AT MATURITY WAS SOURCED FROM NVKNURSERIES.COM
 2. CIRCLES WERE PLACED AROUND EACH CANOPY TREE WITH CORRESPONDING DIAMETER
 3. CANOPY AREA WAS DETERMINED BY A POLYLINE DRAWN AROUND THE PERIMETER OF EACH TREE, OR GROUPINGS OF TREES WITH OVERLAPPING CANOPIES
 4. THE ADDED AREA OF ALL POLYLINES WAS USED TO CALCULATE SITE COVERAGE PERCENTAGE
 5. FOR THE PURPOSE OF THIS CALCULATION, THE TOTAL SITE AREA USED IS DENOTED BY THE 'LIMIT OF SCOPE' LINE

- LEGEND**
- EXISTING TREES TO REMAIN
 - PROPOSED DECIDUOUS TREE
 - PROPOSED CONIFEROUS TREE
 - PROPOSED SPECIMEN SHRUB
 - NATIVE SEED MIX
 - PERENNIAL PLANTING
 - EXISTING SOD TO REMAIN
 - BOUND AGGREGATE PAVING
 - C.I.P. CONCRETE PAVING
 - GRAVEL
 - LOOSE SAND
 - TABLE AND CHAIRS
 - PROPOSED LIGHT STANDARD
 - EXISTING LIGHT STANDARD
 - ARMOURSTONE BOULDERS
 - EXISTING CANOPY 40-YEAR PROJECTION
 - PROPOSED CANOPY 40-YEAR PROJECTION



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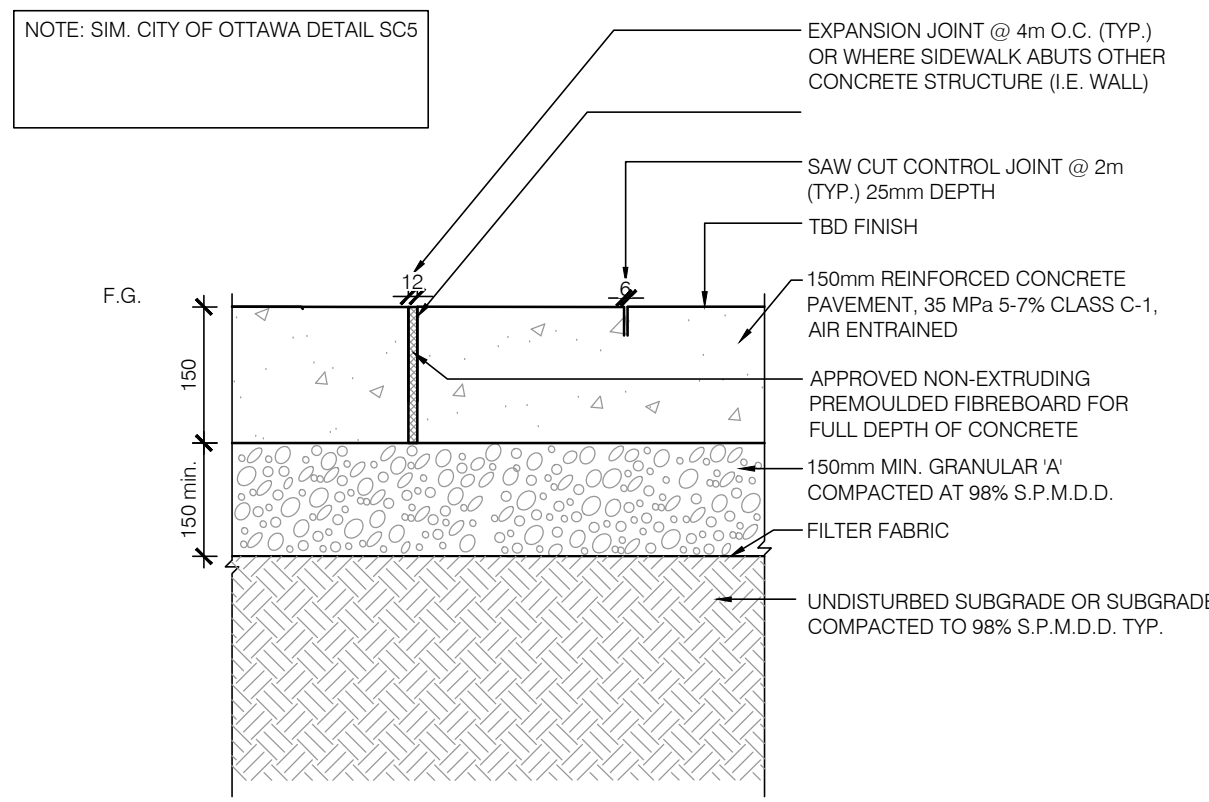
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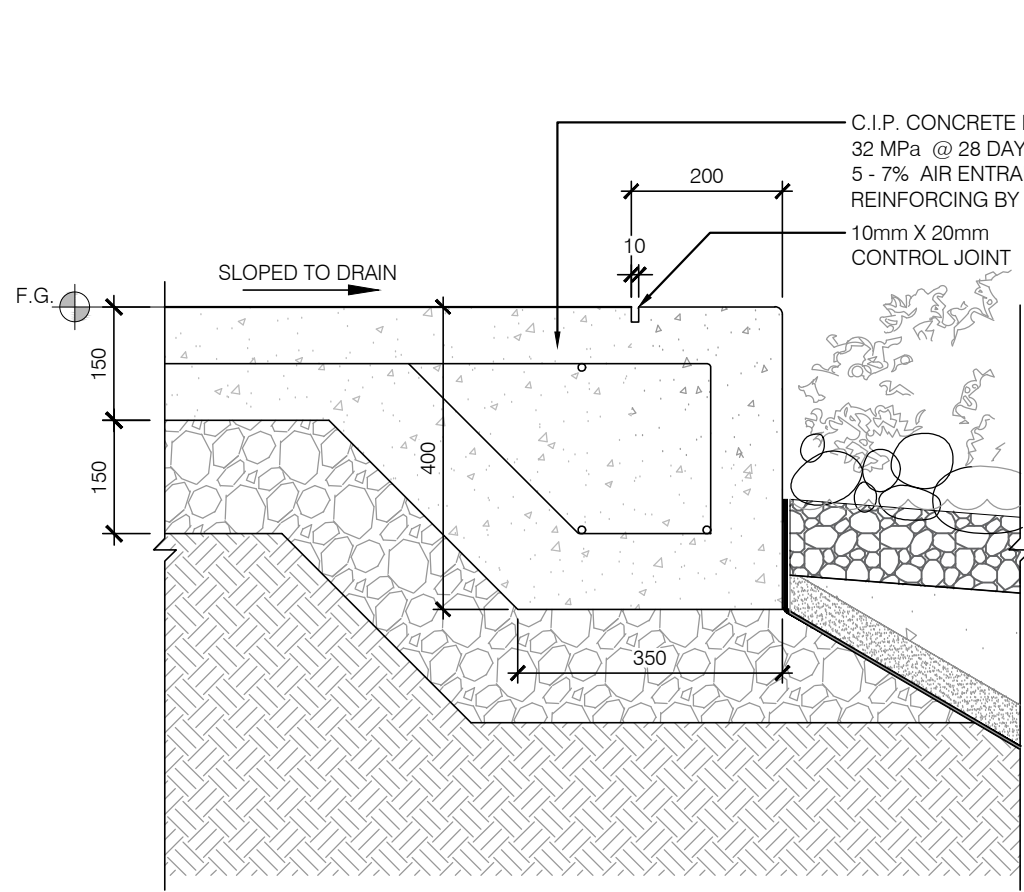
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40-YEAR CANOPY
PROJECTION

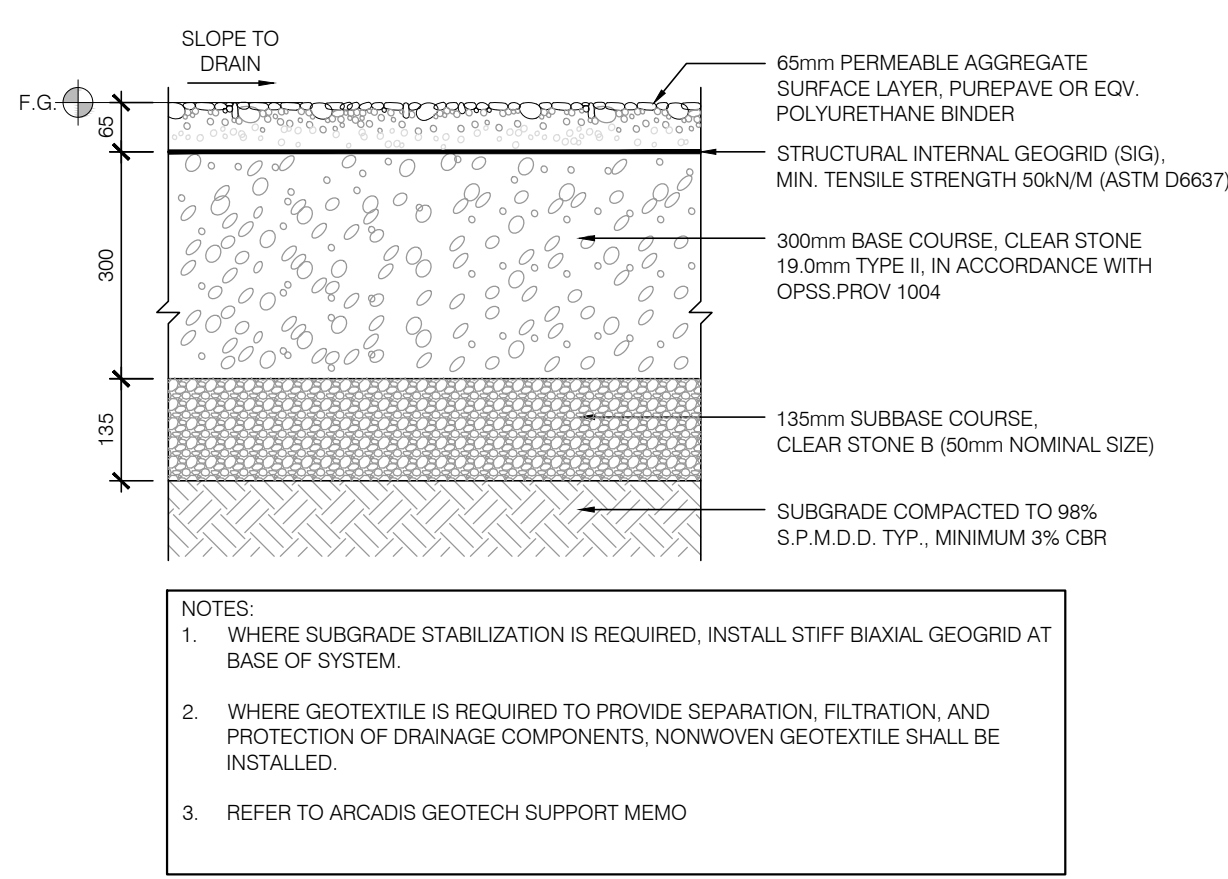
SHEET NUMBER L-201	ISSUE 2
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1 C.I.P. CONCRETE PAVING
L-500 1:10

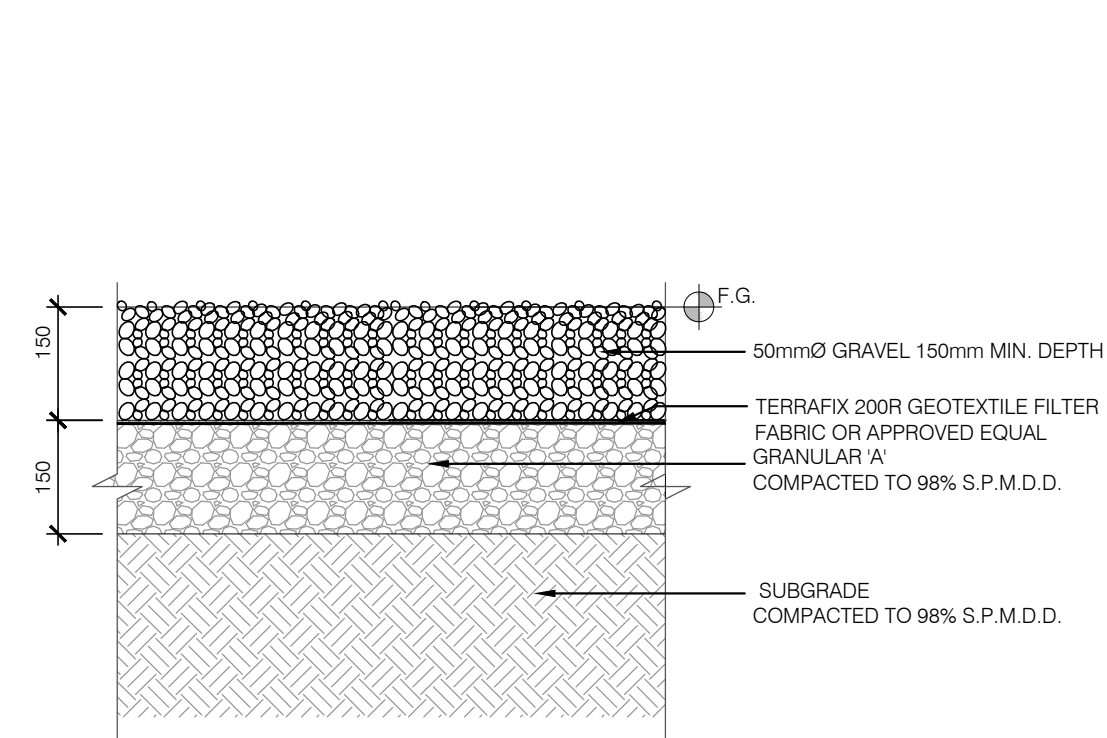


2 C.I.P. CONCRETE EDGE
L-500 1:10

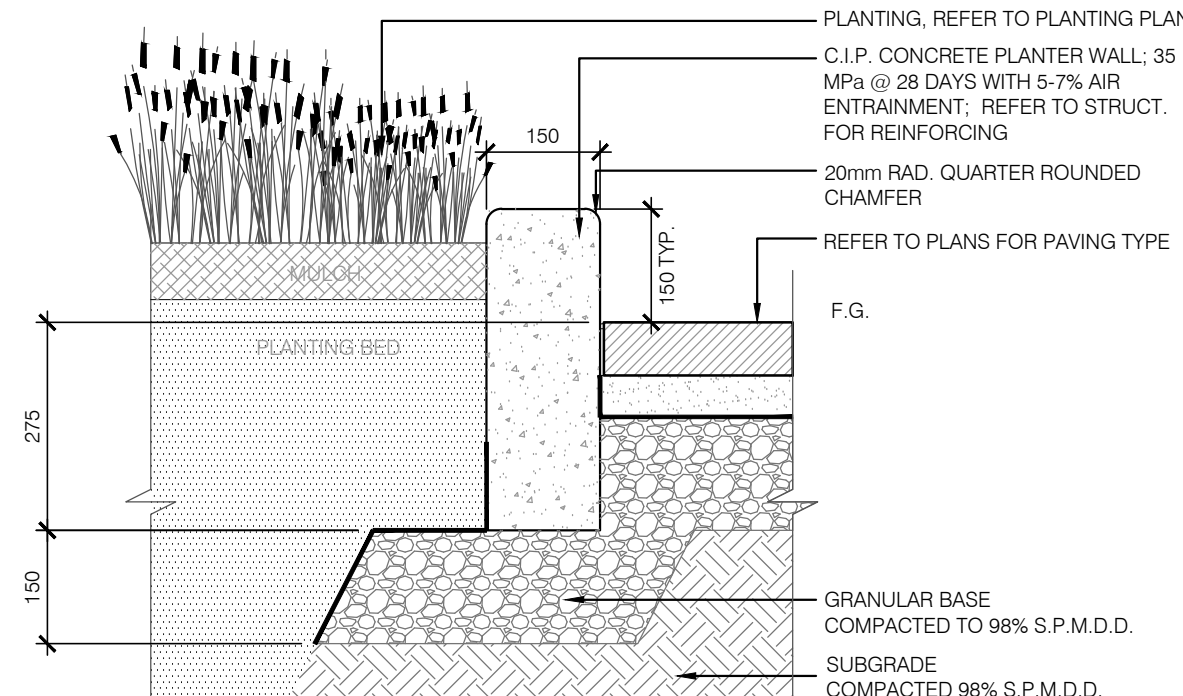


3 BOUND AGGREGATE PAVING
L-500 1:10

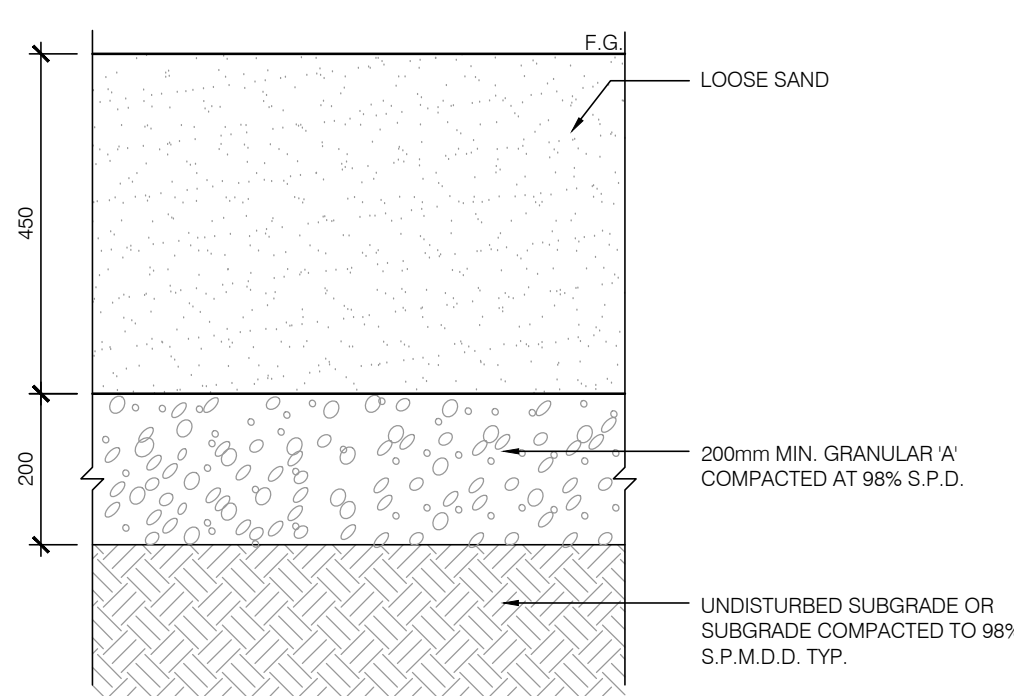
4 LEFT BLANK INTENTIONALLY
L-500



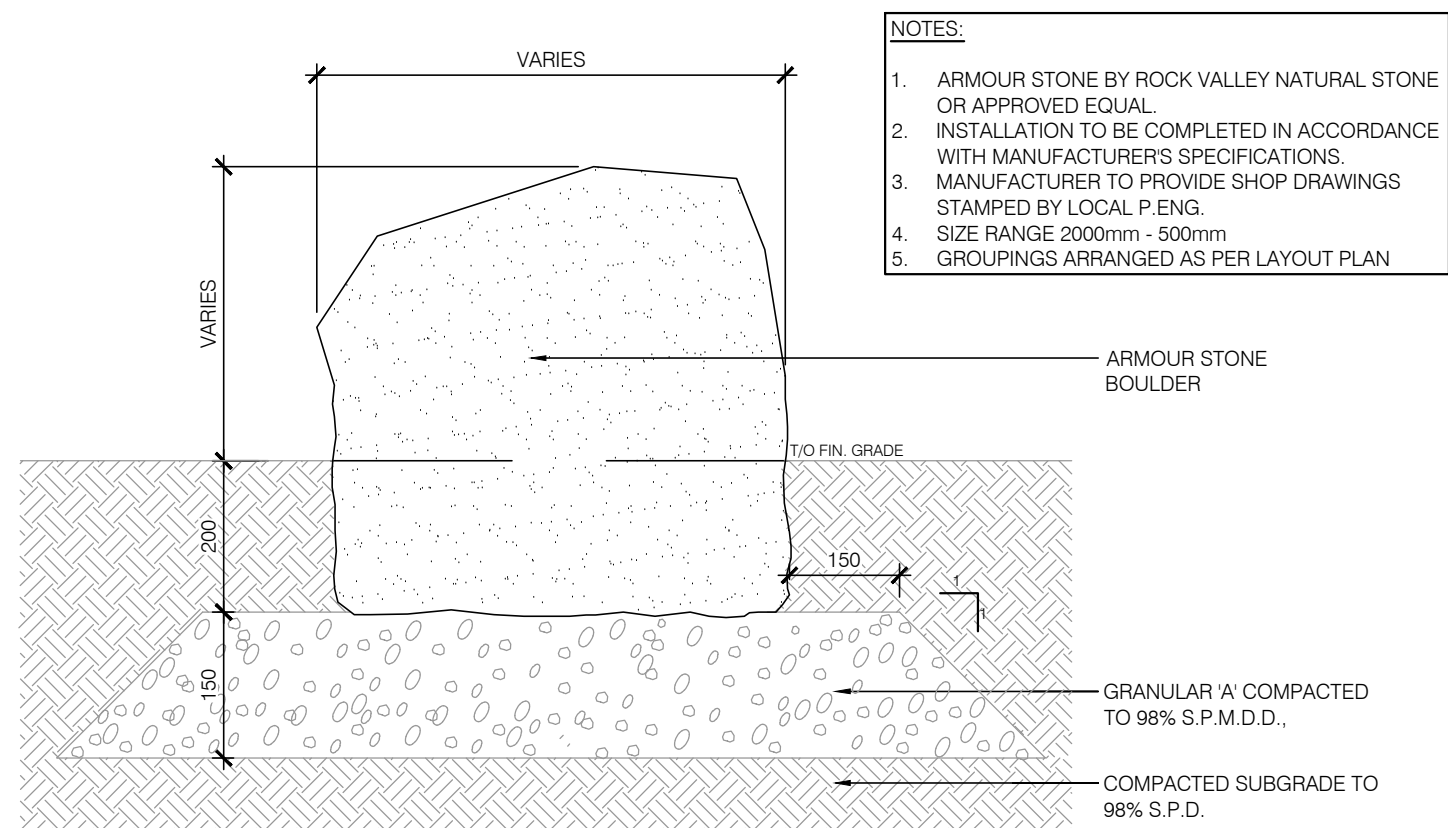
5 GRAVEL SURFACE
L-500 1:10



6 C.I.P. CONCRETE CURB AT PLANTERS
L-500 1:10



7 SAND VOLLEYBALL COURT
L-500 1:10

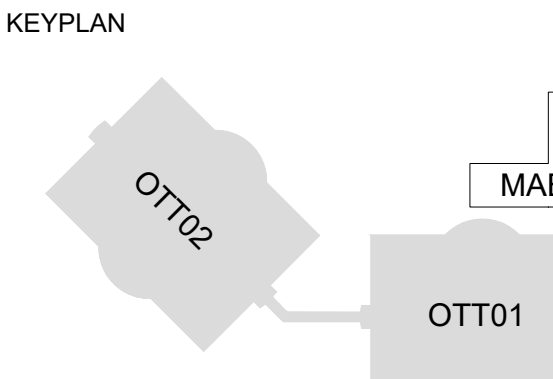


8 BOULDER (ARMOURSTONE)
L-500 1:20



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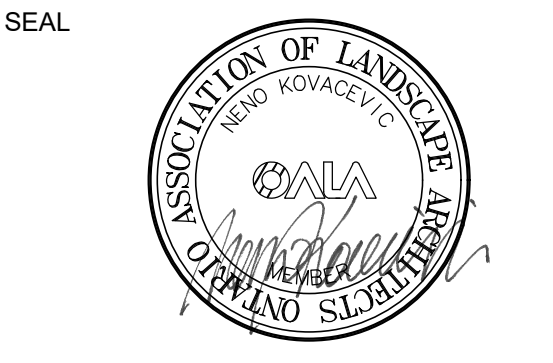
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SHEET TITLE
**LANDSCAPE
DETAILS**

SHEET NUMBER L-500	ISSUE 2
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