

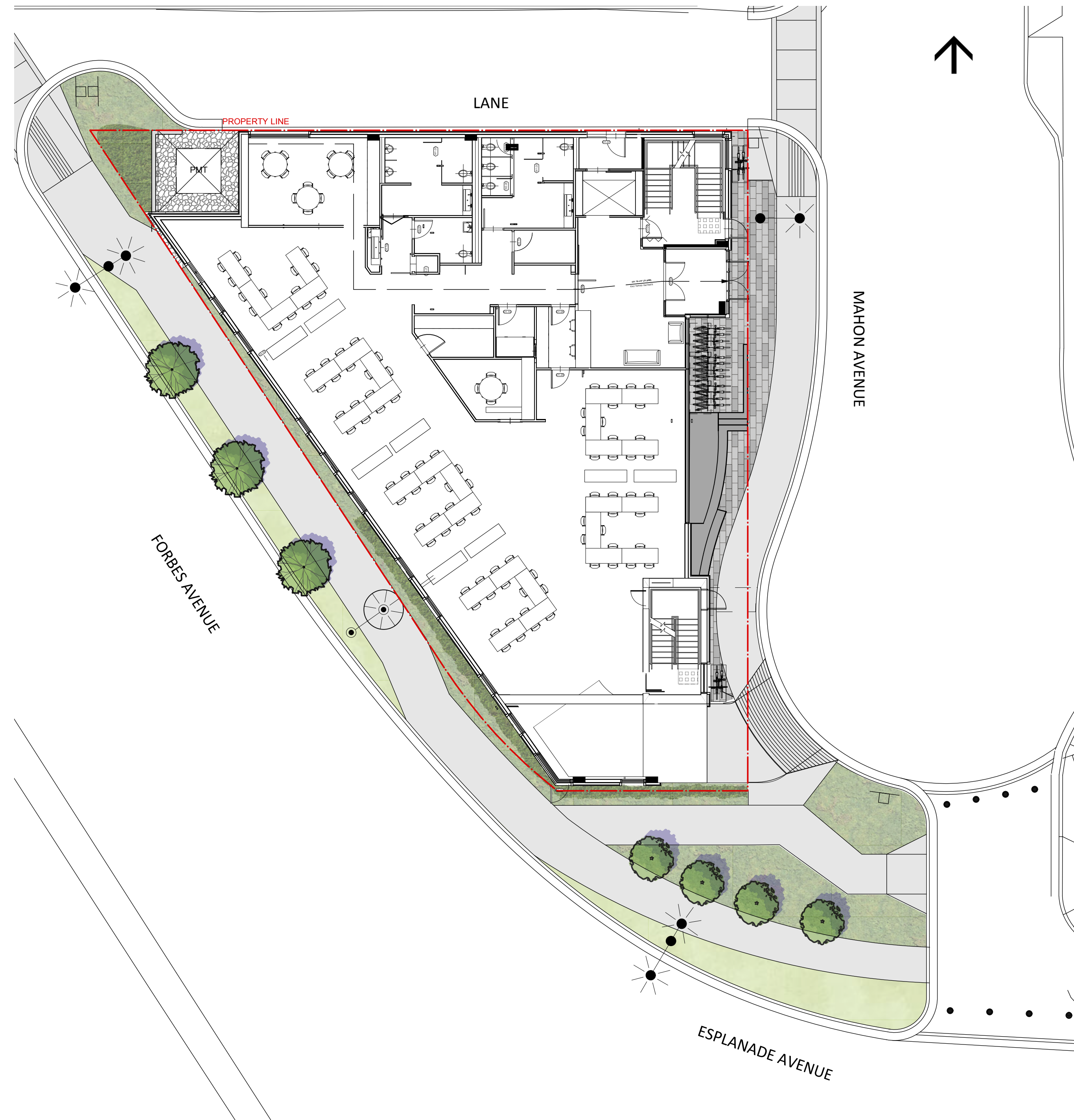
CONNECT LANDSCAPE ARCHITECTURE INC. DOES NOT GUARANTEE THE EXISTENCE, LOCATION, AND ELEVATION OF UTILITIES AND / OR CONCEALED STRUCTURES AT THE PROJECT SITE.

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ALCUIN COLLEGE (4 Storey)

NORTH VANCOUVER, BRITISH COLUMBIA

OCTOBER 16, 2020 - RE-ISSUE FOR REZONING / DEVELOPMENT PERMIT



LANDSCAPE DRAWING INDEX

SHEET No.	SHEET NAME
L 0.0	COVER SHEET AND DRAWING LIST
L 0.1	INSPIRATION
L 1.0	LAYOUT PLAN - GROUND LEVEL
L 1.1	LAYOUT PLAN - LEVEL 3
L 1.2	LAYOUT PLAN - LEVEL 4 & SECTIONS
L 2.0	GRADING PLAN - GROUND LEVEL
L 2.1	GRADING PLAN - LEVEL 3
L 3.0	PLANTING PLAN - GROUND LEVEL AND PLANT LIST
L 3.1	PLANTING PLAN - LEVEL 3
L 4.0	IRRIGATION PLAN - GROUND LEVEL
L 4.1	IRRIGATION PLAN - LEVEL 3
L 5.1	DETAILS - HARDSCAPE
L 5.2	DETAILS - SEAT WALL
L 5.3	DETAILS - LANDSCAPE
L 5.4	DETAILS - SOFTSCAPE OFFSITE

PROJECT INFORMATION

LANDSCAPE ARCHITECT:
CONNECT LANDSCAPE ARCHITECTURE
CONTACT NAME: DAVID STOYKO, MARINA ROMMEL
2305 HEMLOCK ST.,
VANCOUVER, BRITISH COLUMBIA, V6H 2V1
EMAIL: DAVID@CONNECTLA.CA / MARINA@CONNECTLA.CA
PH: (604) 681-3303

GENERAL NOTES

ALL LANDSCAPE ARCHITECTURAL DRAWINGS IN THIS PACKAGE SHALL BE READ IN CONJUNCTION WITH ALL OTHER LANDSCAPE ARCHITECTURAL DRAWINGS, DETAILS, SPECIFICATIONS, AND OTHER CORRESPONDANCE THAT MAY BE ISSUED DURING THE COURSE OF THE CONTRACT.

IF A DISCREPANCY OCCURS BETWEEN THE DRAWINGS AND THE SPECIFICATIONS OR ANY OTHER DOCUMENT ASSOCIATED WITH THE PROJECT, THE CONFLICT SHALL BE REPORTED IN WRITING TO THE LANDSCAPE ARCHITECT TO OBTAIN CLARIFICATION AND APPROVAL BEFORE PROCEEDING WITH WORKS.

THE CONTRACTOR SHALL VISIT THE SITE TO VERIFY THE TRUE EXISTING CONDITIONS. ANY UNCLEAR ISSUES SHALL BE CLARIFIED WITH THE LANDSCAPE ARCHITECT. NO CLAIM SHALL BE ALLOWED FOR EXTRAS WHICH MAY ARISE THROUGH NEGLIGENCE OF THIS ADVICE.

ALL EXISTING INFORMATION IS BASED ON AVAILABLE RECORDS AND SHALL NOT BE CONSTRUED TO BE COMPLETE OR ACCURATE.

LAYOUT OF HARDSCAPE, SITE FURNITURE, SOIL, PLANTING, AND ALL OTHER MATERIALS IS TO BE STAKED OUT AND APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.

ALL PLANTING SHALL BE IN ACCORDANCE WITH CANADIAN LANDSCAPE STANDARD, LATEST EDITION, AND CANADIAN LANDSCAPE STANDRAD, LATEST EDITION.

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FINAL SELECTION AND APPROVAL OF ALL STREET TREES TO BE DONE BY THE CITY OF NORTH VANCOUVER.

ALL PUBLIC REALM DETAILS TO THE SATISFACTION OF THE CITY OF NORTH VANCOUVER.

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REVISIONS

ALCUIN COLLEGE 4 STOREY

60 Mahon Ave
North Vancouver, British Columbia

Scale: N/A

Drawn: KD / MR

Reviewed: DS

Project No. 06-462

COVER PAGE

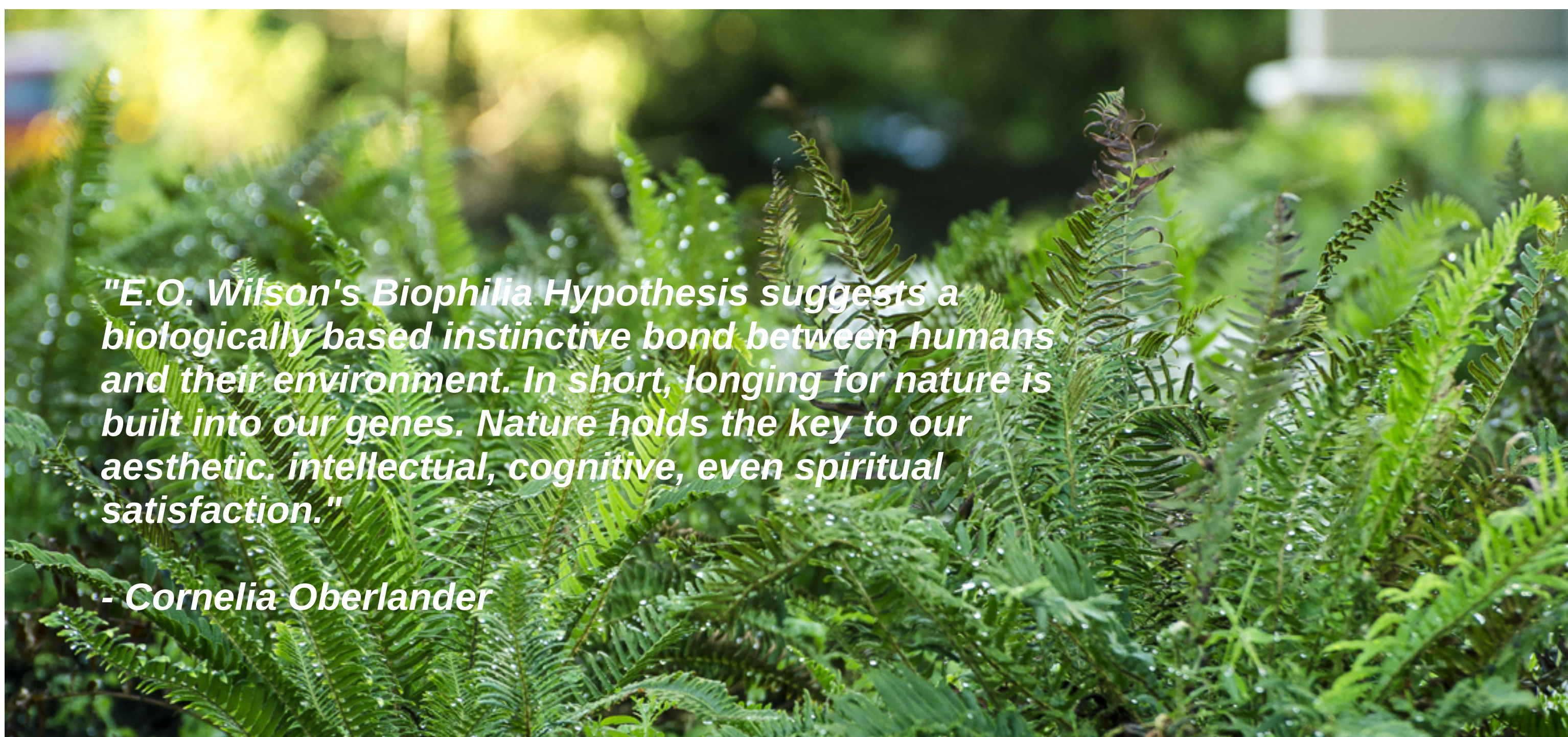
INSPIRATION: HONEYCOMB



CONNECTION TO NATURE



HABITAT VALUE



"E.O. Wilson's Biophilia Hypothesis suggests a biologically based instinctive bond between humans and their environment. In short, longing for nature is built into our genes. Nature holds the key to our aesthetic, intellectual, cognitive, even spiritual satisfaction."

- Cornelia Oberlander



OUTDOOR LEARNING

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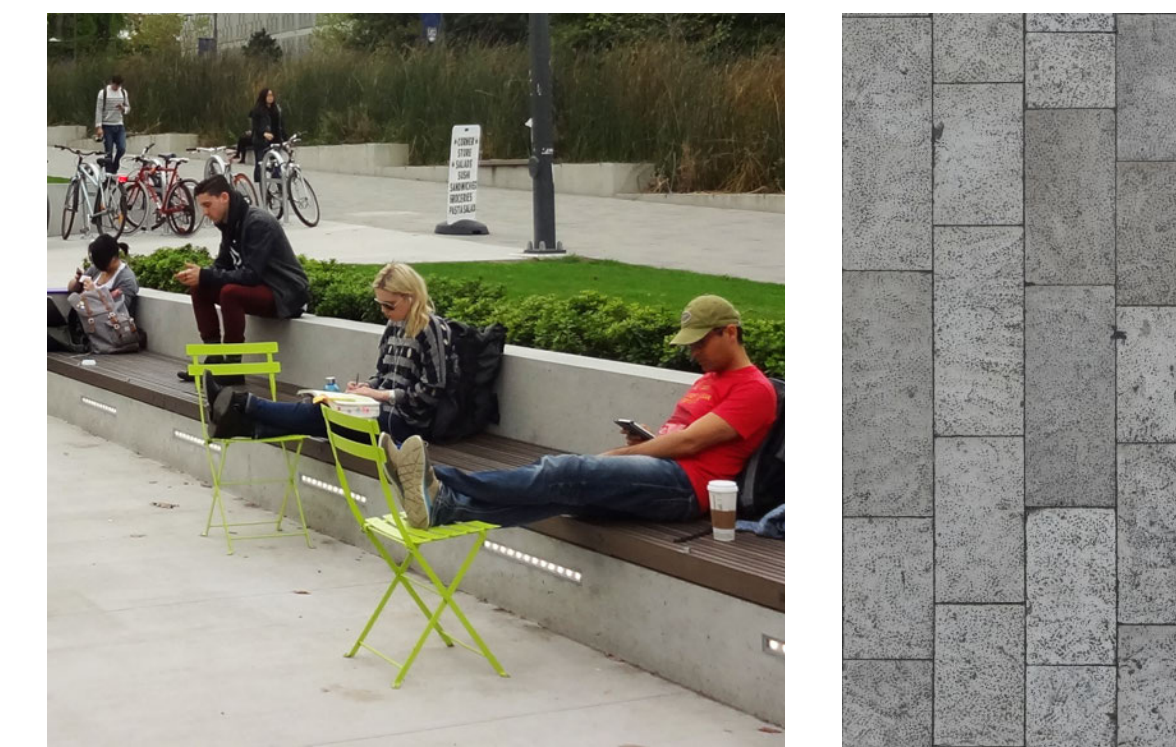
INSPIRATION

LAYOUT AND MATERIALS LEGEND

KEY	DESCRIPTION	SYMBOL	DETAIL
1	PEDESTRIAN UNIT PAVERS STANDARD 60mm DEPTH, CHARCOAL AND GREY		1 L5.1
2	HYDRAPRESSED SLAB PAVERS 610mm x 305mm x 45mm, CHARCOAL AND GREY ON LEVEL 3 DECK		2A L5.1
3	HYDRAPRESSED SLAB PAVERS 610mm x 305mm x 45mm, CHARCOAL AND GREY ON LEVEL 3 DECK		2B L5.1
4	CIP CONCRETE WITH SAW CUT PATTERN, SANDBLAST FINISH		3 L5.1
5	ROCK BUILDING SURROUND		5-6 L5.1
6	ENTRY CIP CONCRETE SEAT WALL AND STAIR		1-2 L5.2
7	STAGE/ DECK ON LEVEL 3 DECK		4 L5.3
8	CUSTOM SEATING BENCH TYPES ON LEVEL 3 DECK		1 L5.4
9	CIP CONCRETE PLANTER ON LEVEL 3 DECK		3 L5.3
10	METAL SCREEN WITH VINE PLANTING ON LEVEL 3 DECK		3 L5.3
11	BIKE RACK DOBRA BOA 8 BIKE RACK STAINLESS STEEL		7 L5.1
12	BIKE RACK MAGLIN (2 CLASS B BIKES PER RACK)		8 L5.1
13	TRAFFIC BOLLARDS OFFSITE TO CNV DETAILS		
14	HOSE BIB REFER TO MECHANICAL		

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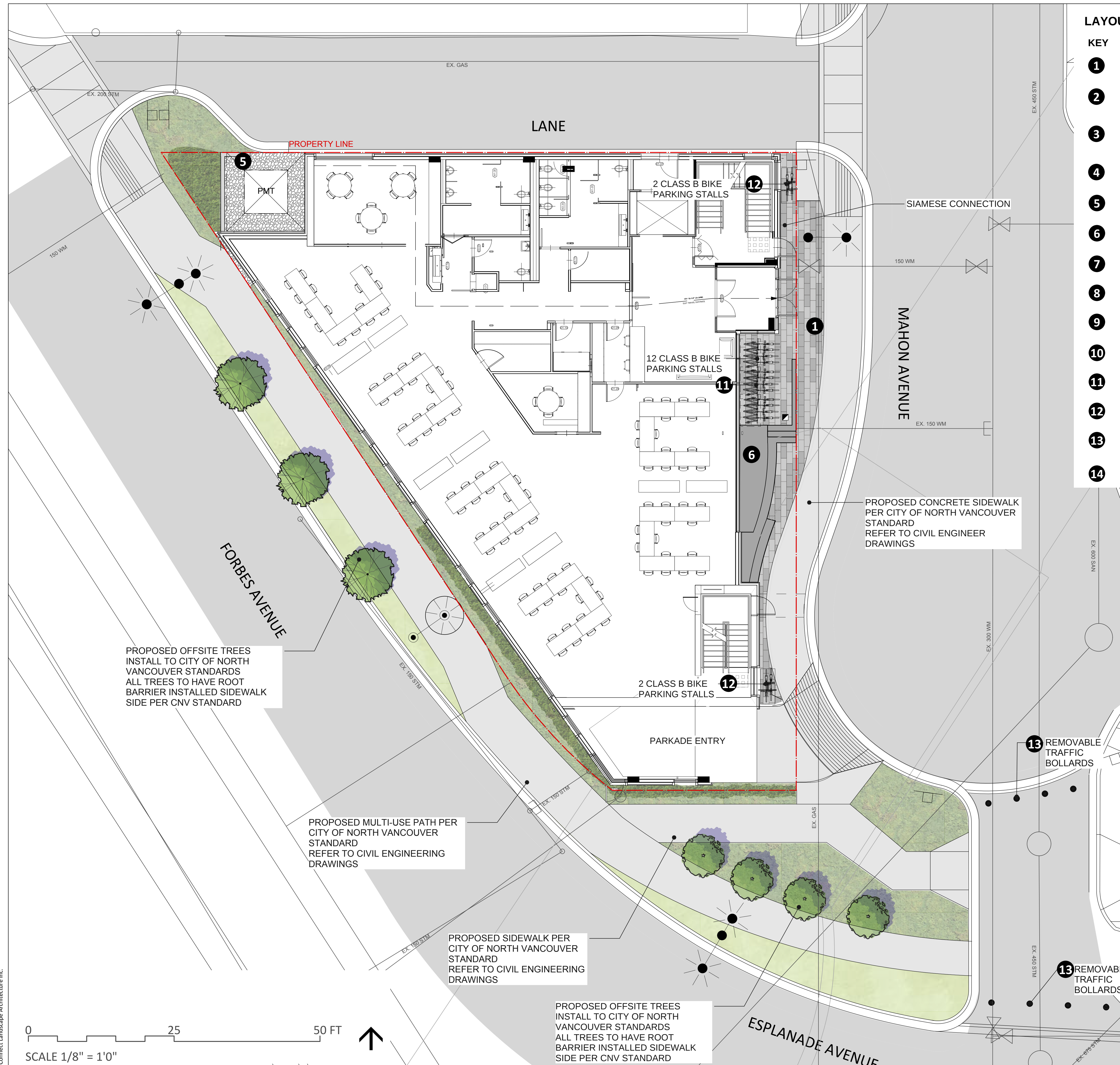
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LAYOUT PLAN - LEVEL 1



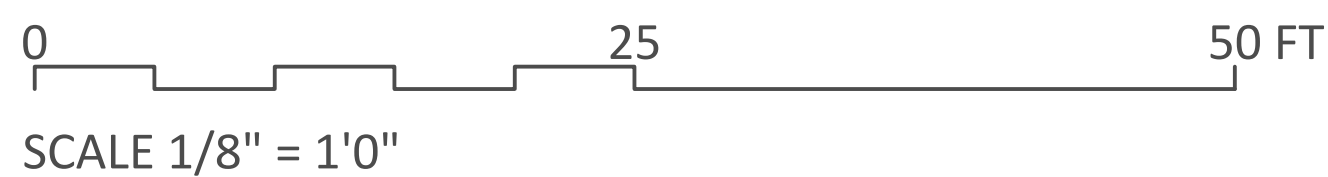
PROPOSED OFFSITE TREES
INSTALL TO CITY OF NORTH
VANCOUVER STANDARDS
ALL TREES TO HAVE ROOT
BARRIER INSTALLED SIDEWALK
SIDE PER CNV STANDARD

PROPOSED MULTI-USE PATH PER
CITY OF NORTH VANCOUVER
STANDARD
REFER TO CIVIL ENGINEERING
DRAWINGS

PROPOSED SIDEWALK PER
CITY OF NORTH VANCOUVER
STANDARD
REFER TO CIVIL ENGINEERING
DRAWINGS

PROPOSED OFFSITE TREES
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PROPOSED CONCRETE SIDEWALK
PER CITY OF NORTH VANCOUVER
STANDARD
REFER TO CIVIL ENGINEER
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SOCIAL SEATING



NATIVE PLANTING



VINES AND SCREEN



HEX DECKING

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**ALCUIN COLLEGE
4 STOREY**

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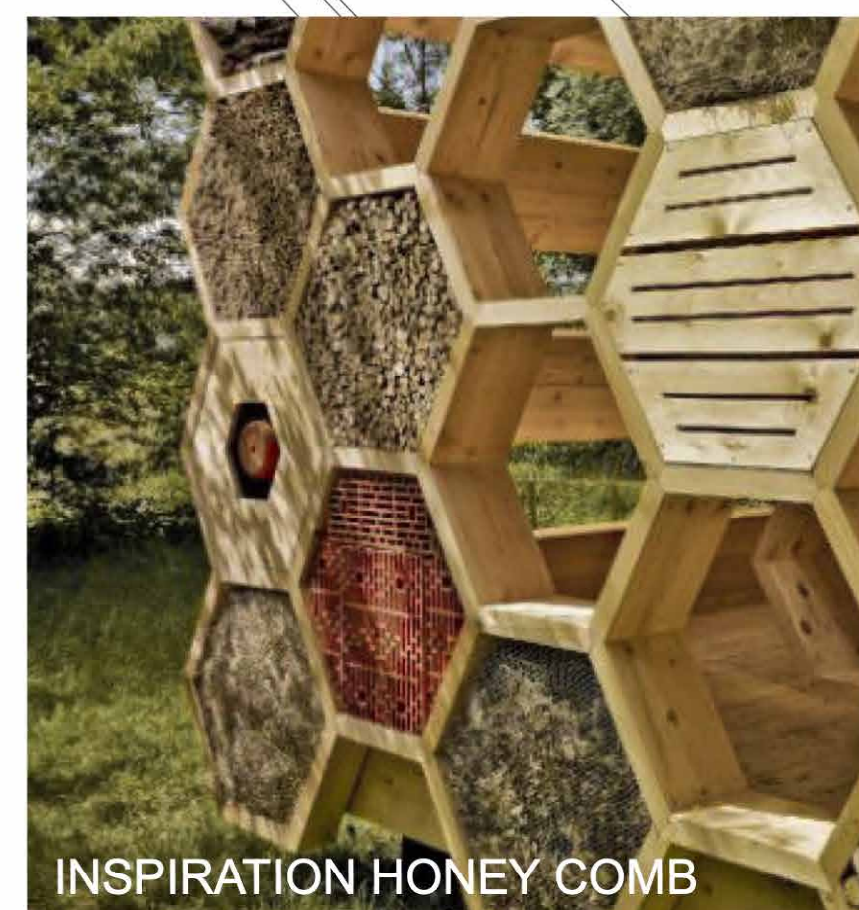
Reviewed: DS

Project No. 06-462

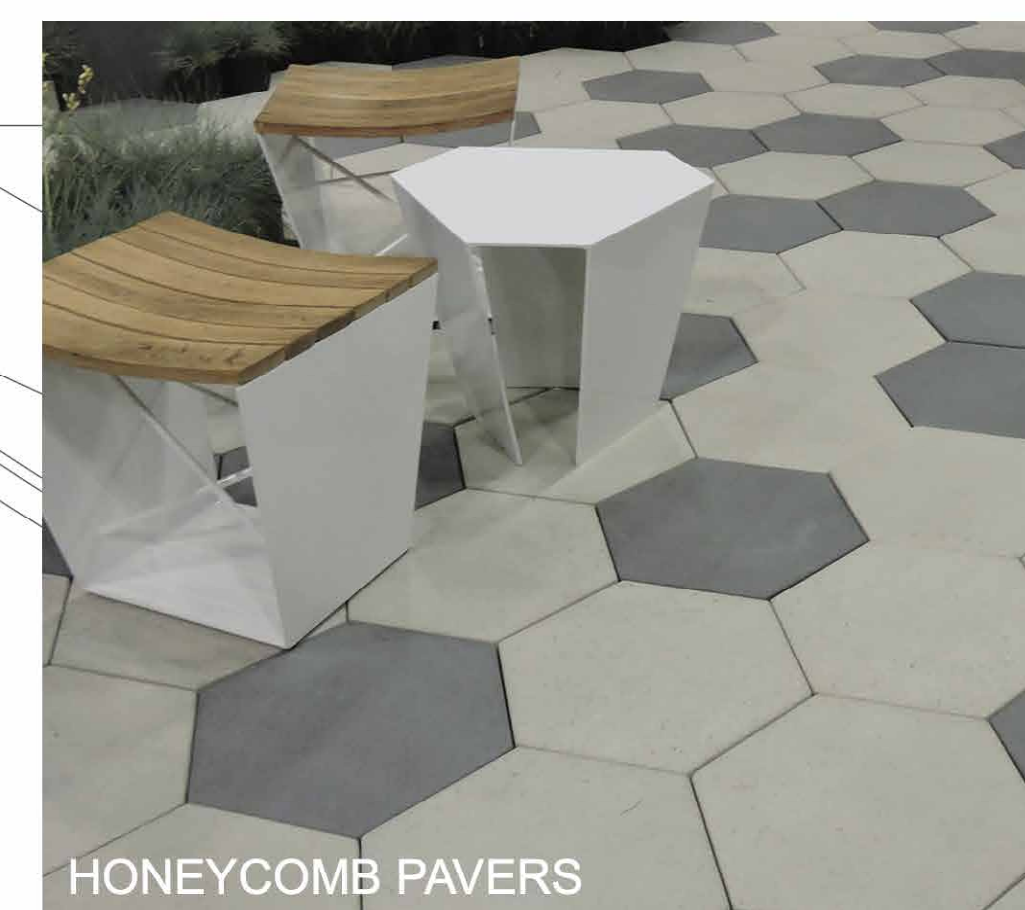
LAYOUT PLAN - LEVEL 3



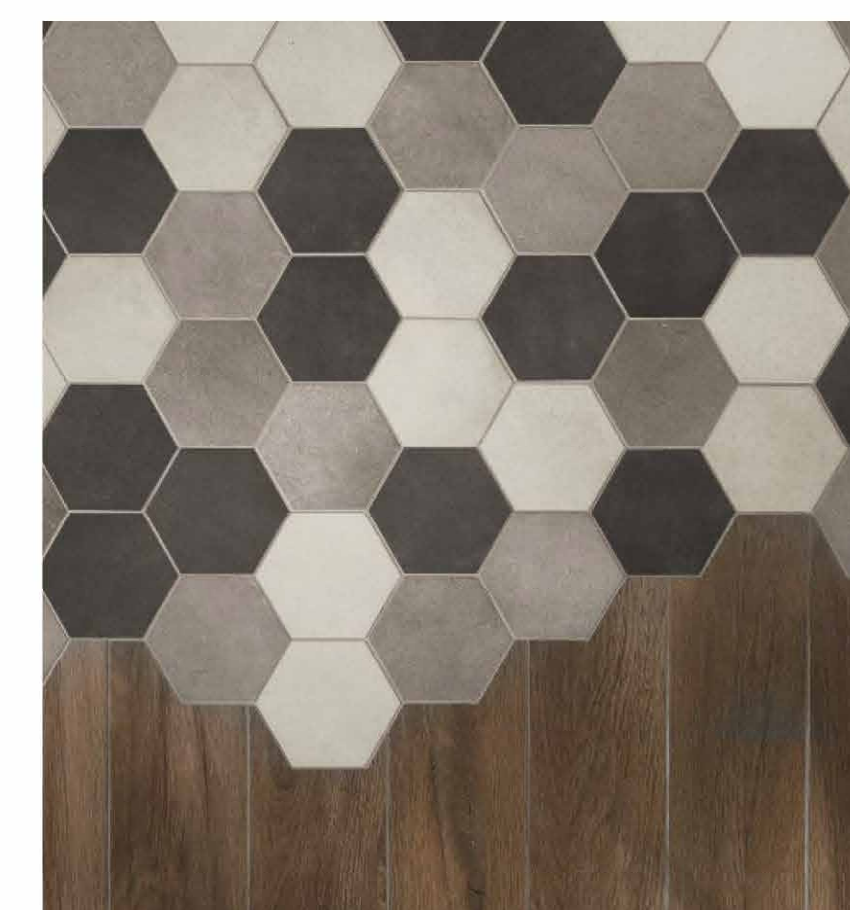
STAGE



INSPIRATION HONEY COMB

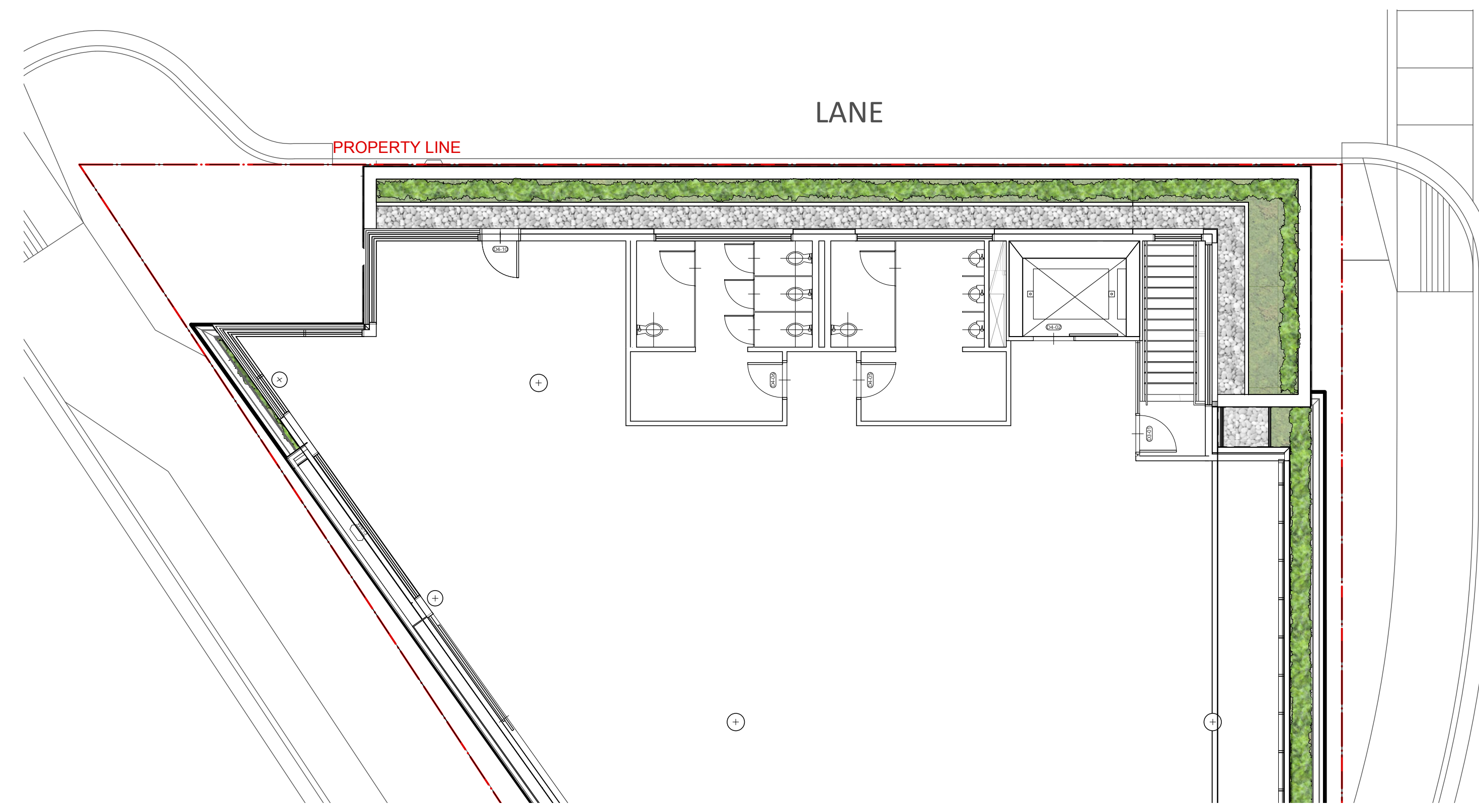


HONEYCOMB PAVERS



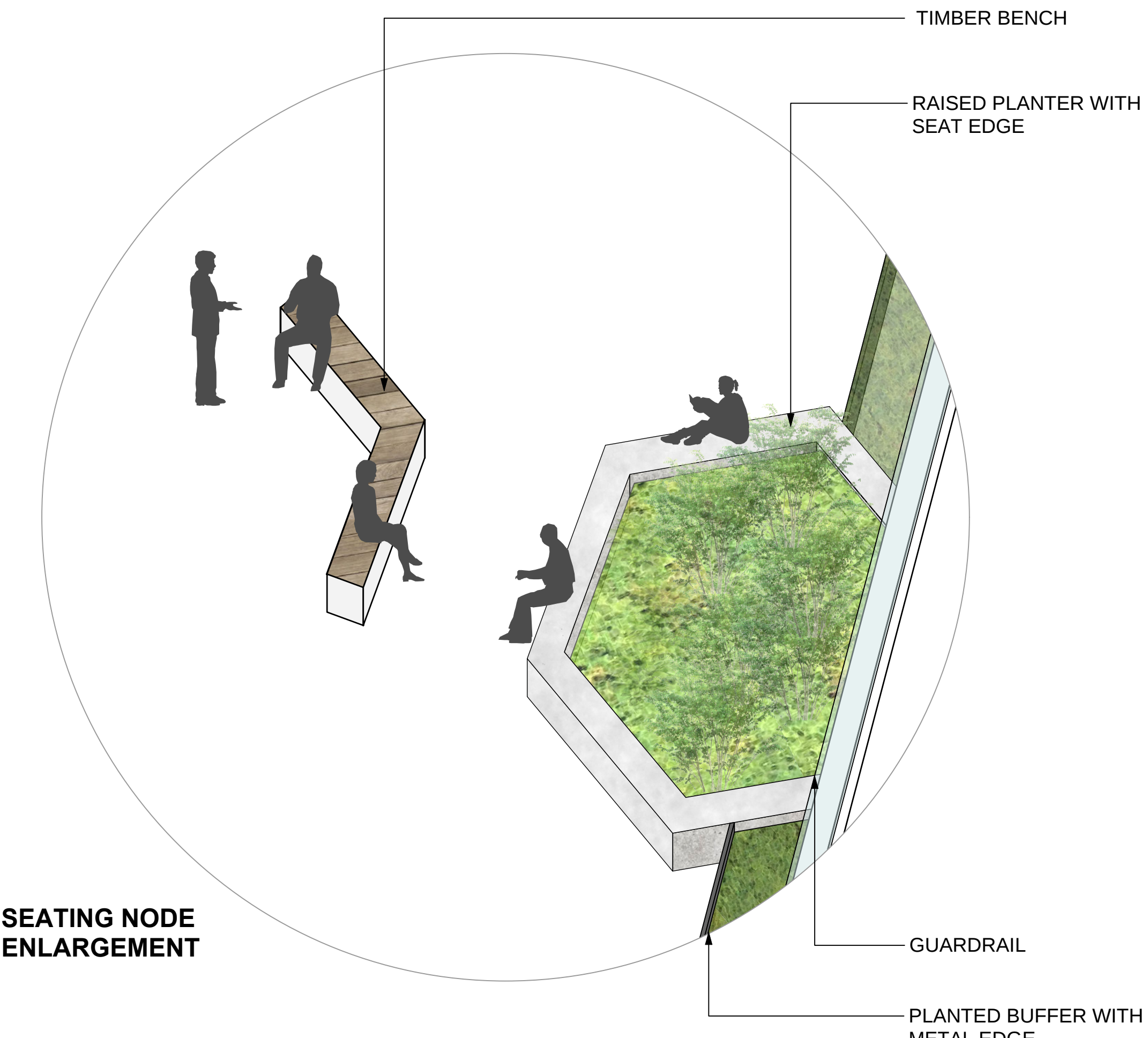
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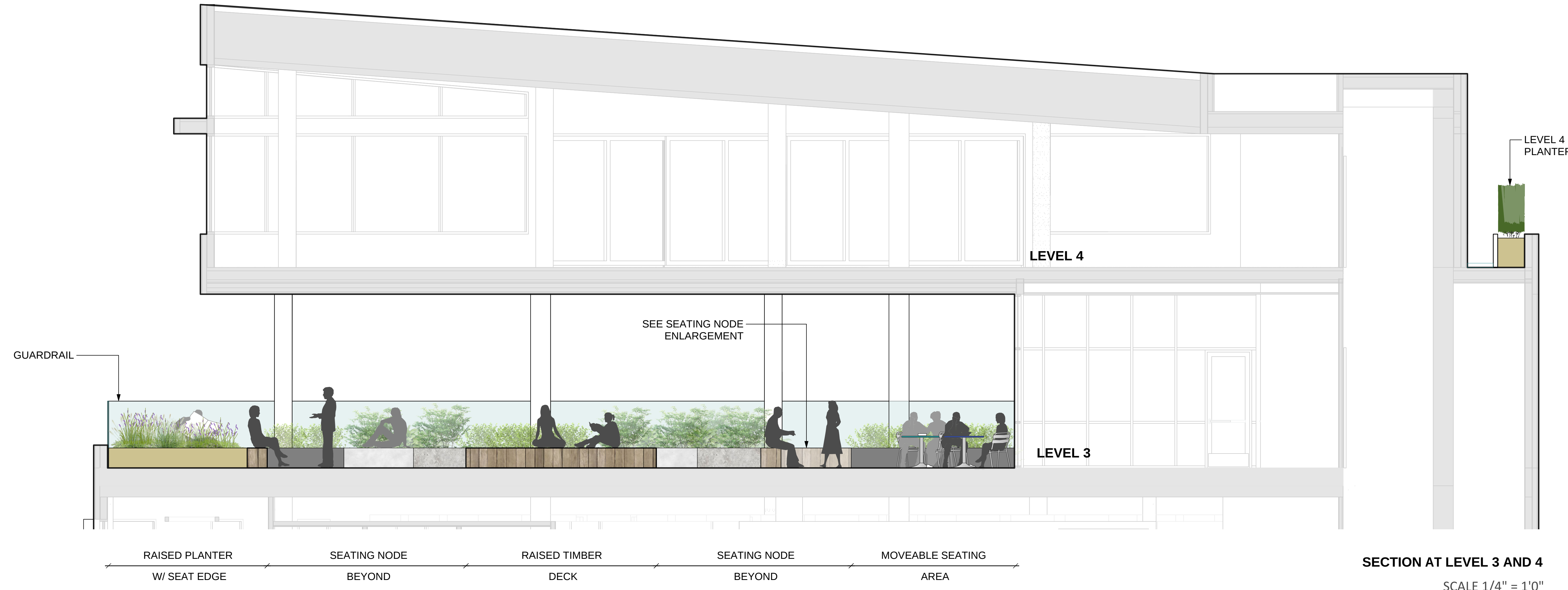
LEVEL 4 LAYOUT PLAN

SEATING NODE ENLARGEMENT



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REVISIONS



SECTION AT LEVEL 3 AND 4

SCALE 1/4" = 1'0"

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4 STOREY**

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Scale: 1/8" = 1'0"

Drawn: KD / MR

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**LAYOUT PLAN - LEVEL 4
& SECTIONS**

GRADING LEGEND

	PROPOSED BUILDING ELEVATIONS REFER TO ARCHITECTURAL
	CIVIL ELEVATIONS FOR REFERENCE ONLY
+ 28.50'	PROPOSED ELEVATIONS
+ BC 28.50'	PROPOSED BOTTOM OF CURB ELEVATIONS
+ TC 28.50'	PROPOSED TOP OF CURB ELEVATIONS
+ BW 28.50'	PROPOSED BOTTOM OF WALL ELEVATIONS
+ TW 28.50'	PROPOSED TOP OF WALL ELEVATIONS
+ BS 28.50'	PROPOSED BOTTOM OF STAIR ELEVATIONS
+ TS 28.50'	PROPOSED TOP OF STAIR ELEVATIONS
▣ AD 28.50'	PROPOSED AREA DRAIN ELEVATIONS REFER TO MECHANICAL DWGS
⊕ LB 28.50'	PROPOSED LAWN BASIN REFER TO MECHANICAL DWGS
← 4.8%	PROPOSED PERCENTAGE OF SLOPE

GRADING NOTES

1. DO NOT SCALE DRAWINGS.
2. VERIFY ALL DIMENSIONS IN FIELD AND REPORT ANY DISCREPANCIES TO THE LANDSCAPE ARCHITECT PRIOR TO PROCEEDING.
3. THE CONTRACTOR SHALL IDENTIFY AND PROTECT ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION. ANY CONFLICTS FOUND WITH UTILITIES SHALL BE CLARIFIED WITH THE LANDSCAPE ARCHITECT AND CONSULTANT TEAM PRIOR TO PROCEEDING.
4. UNLESS OTHERWISE NOTED, THE CONTRACTOR IS TO PROVIDE A MINIMUM 1% SLOPE ON ALL HARD AND SOFT LANDSCAPE AREAS TO ENSURE POSITIVE DRAINAGE WAY FROM BUILDINGS AND TO DRAINAGE STRUCTURES.

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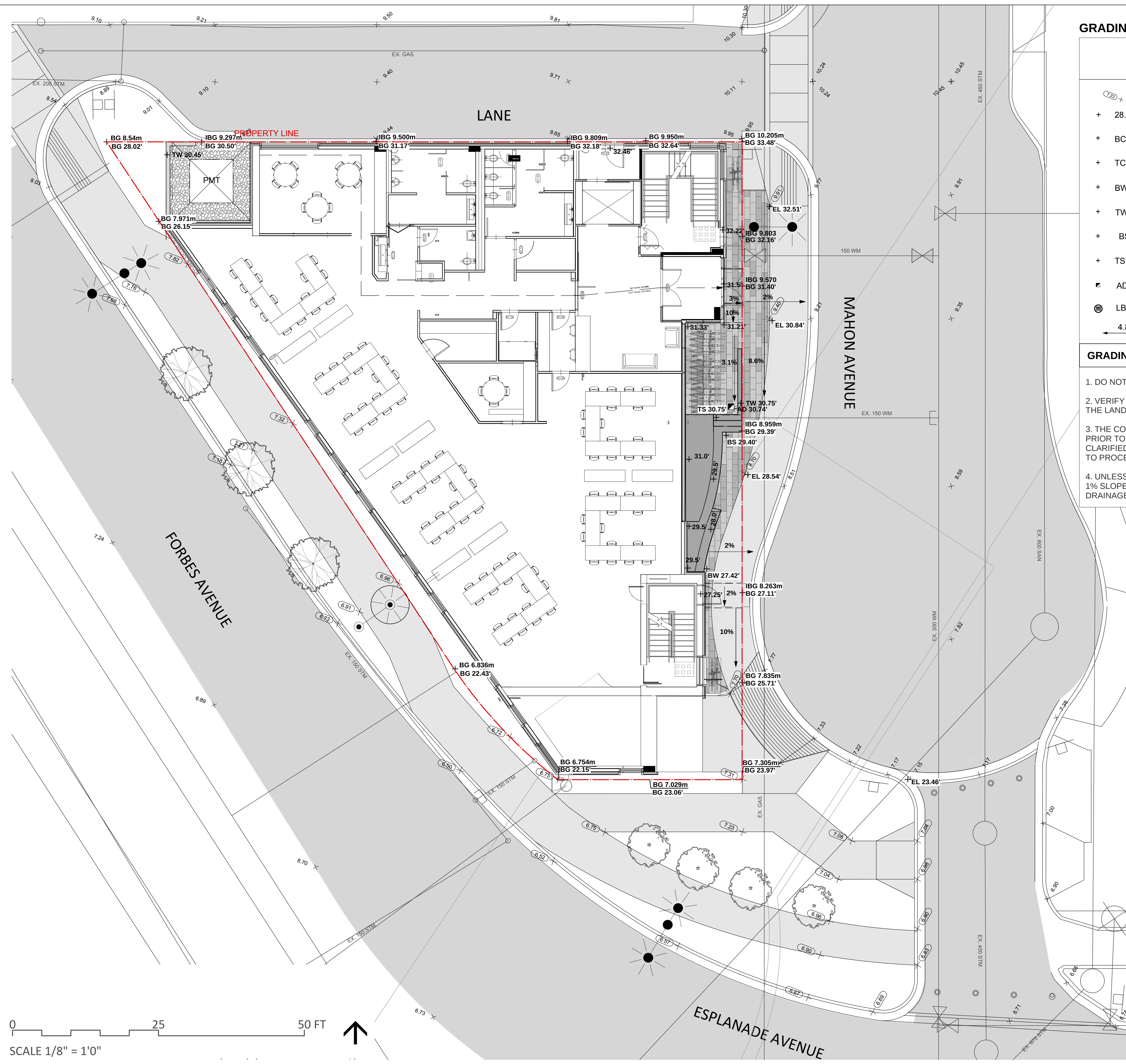
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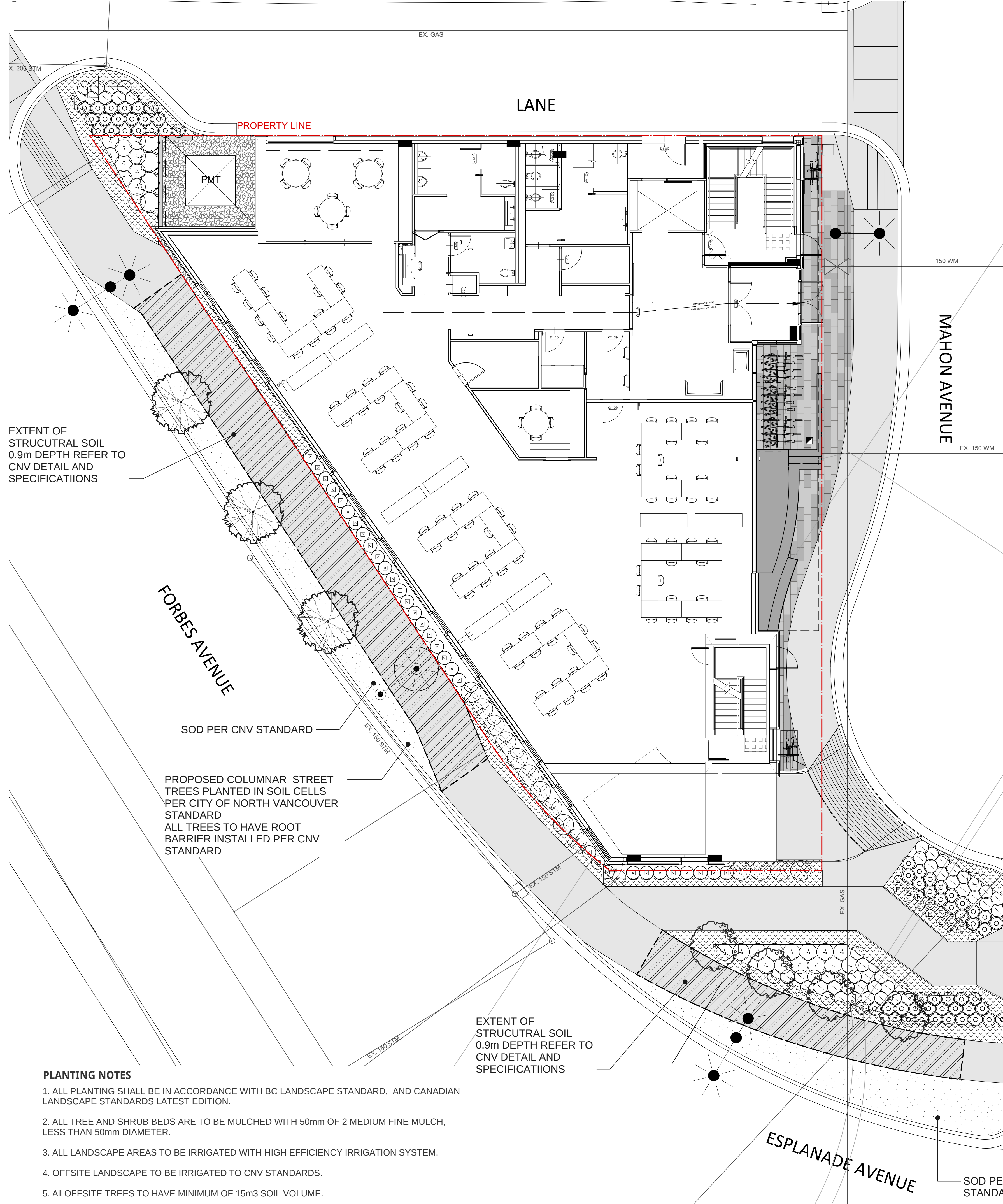
GRADING PLAN

NOTE:
FOR OFFSITE GRADES REFER TO CIVIL DRAWINGS

L2.0



GROUND LEVEL



PLANT LIST

QTY.	BOTANICAL NAME	COMMON NAME	SIZE	SPACING
TOTAL				
OFF-SITE DECIDUOUS TREES				
3	Populus tremula 'Erecta'	Swedish Columnar Aspen	6cm cal.	As shown
4	Liquidambar styraciflua 'Slender Silhouette'	Slender Silhouette Sweetgum	6cm cal.	As shown
ON-SITE SHRUBS AND VINES				
13	Akebia quinata	Chocolate Vine	No. 1 Pot	24" o.c.
28	Blechnum spicant	Deer Fern	#1 pot	18" o.c.
13	Clematis armandii	Armand's Evergreen Clematis	No. 1 Pot	24" o.c.
11	Ceanothus 'Victoria'	California Lilac	No. 5 Pot	36" o.c.
9	Ceanothus griseus 'Horizontalis'	Carmel Creeper	No. 1 Pot	24" o.c.
23	Polystichum munitum	Sword Fern	#1 pot	24" o.c.
22	Prunus laurocerasus 'Otto Luyken'	Otto Luyken Laurel	No. 3 Pot	24" o.c.
4	Ribes sanguineum	Red Flowering Currant	No. 3 Pot	24" o.c.
86	Sarcococca hookerana 'Humilis'	Himalayan Sweet Box	#2 pot	18" o.c.
64	Taxus x media 'Hicksii'	Hick's yew	No. 5 Pot	18" o.c.
30	Vaccinium ovatum	Evergreen Huckleberry	No. 3 Pot	30" o.c.
ONSITE GROUNDCOVERS, PERENNIALS AND GRASSES				
11	Echinacea purpurea 'Magnus'	Purple Coneflower	No. 1 Pot	24" o.c.
13	Sedum 'Autumn Joy'	Autumn Joy Stonecrop	No. 1 Pot	24" o.c.
56	Parthenocissus quinquefolia	Virginia creeper	No. 1 Pot	18" o.c.
59	Frageria chiloensis	Coastal Strawberry	4" (10cm) Pot	15" o.c.
OFFSITE PLANTS				
193	Arctostaphylos uva-ursi	Kinnikinnick	4" (10cm) Pot	18" o.c.
4	Ceanothus 'Victoria'	California Lilac	No. 5 Pot	36" o.c.
56	Cornus sericea Kelseyi	Kelsey Dogwood	No. 2 Pot	24" o.c.
15	Echinacea purpurea 'Magnus'	Purple Coneflower	No. 1 Pot	24" o.c.
60	Lonicera pileata	Boxleafed honeysuckle	No. 2 Pot	24" o.c.
15	Vaccinium ovatum	Evergreen Huckleberry	No. 3 Pot	30" o.c.

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REVISIONS

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4 STOREY
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Scale: 1/8" = 1'0"
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PLANTING MATERIALS

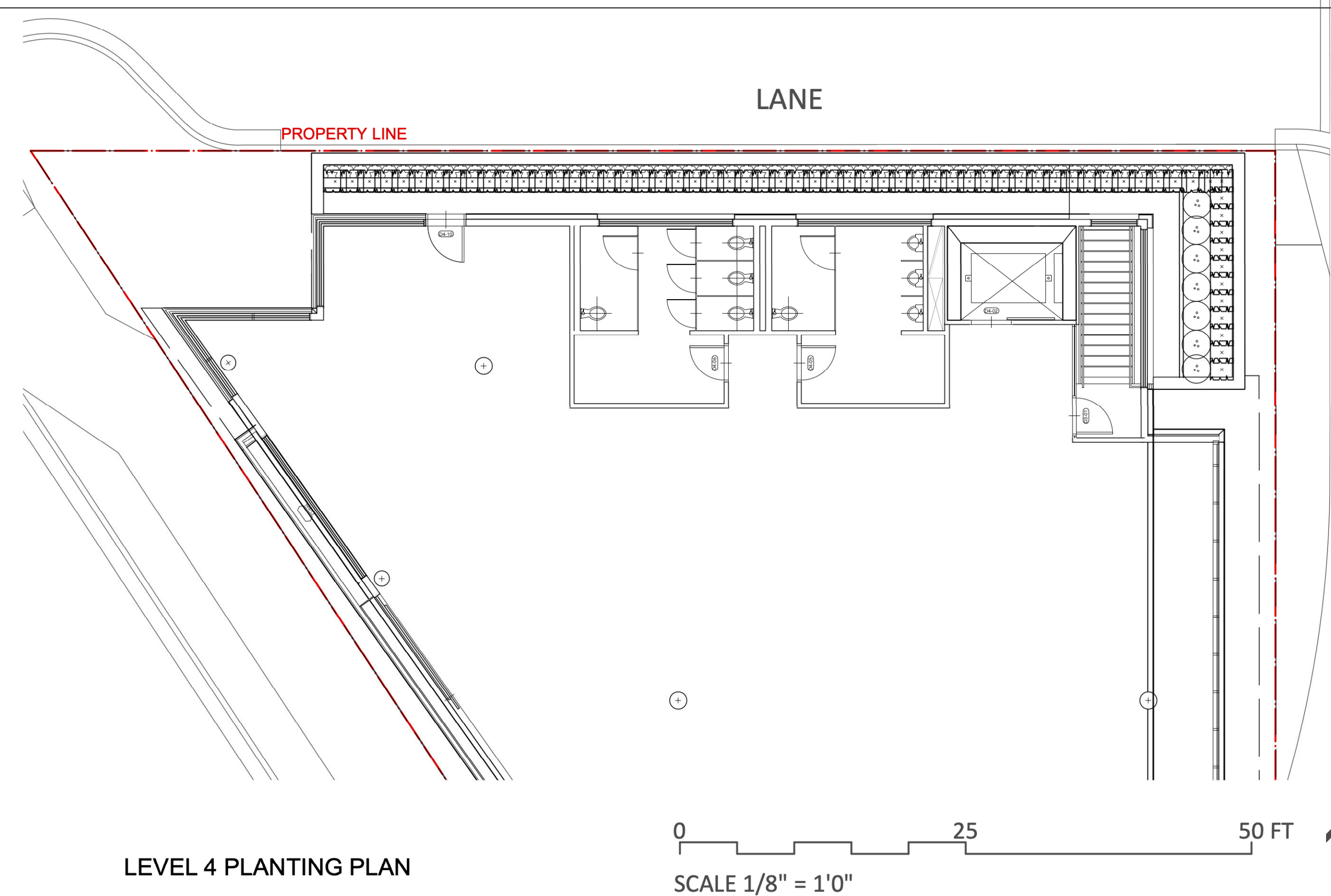
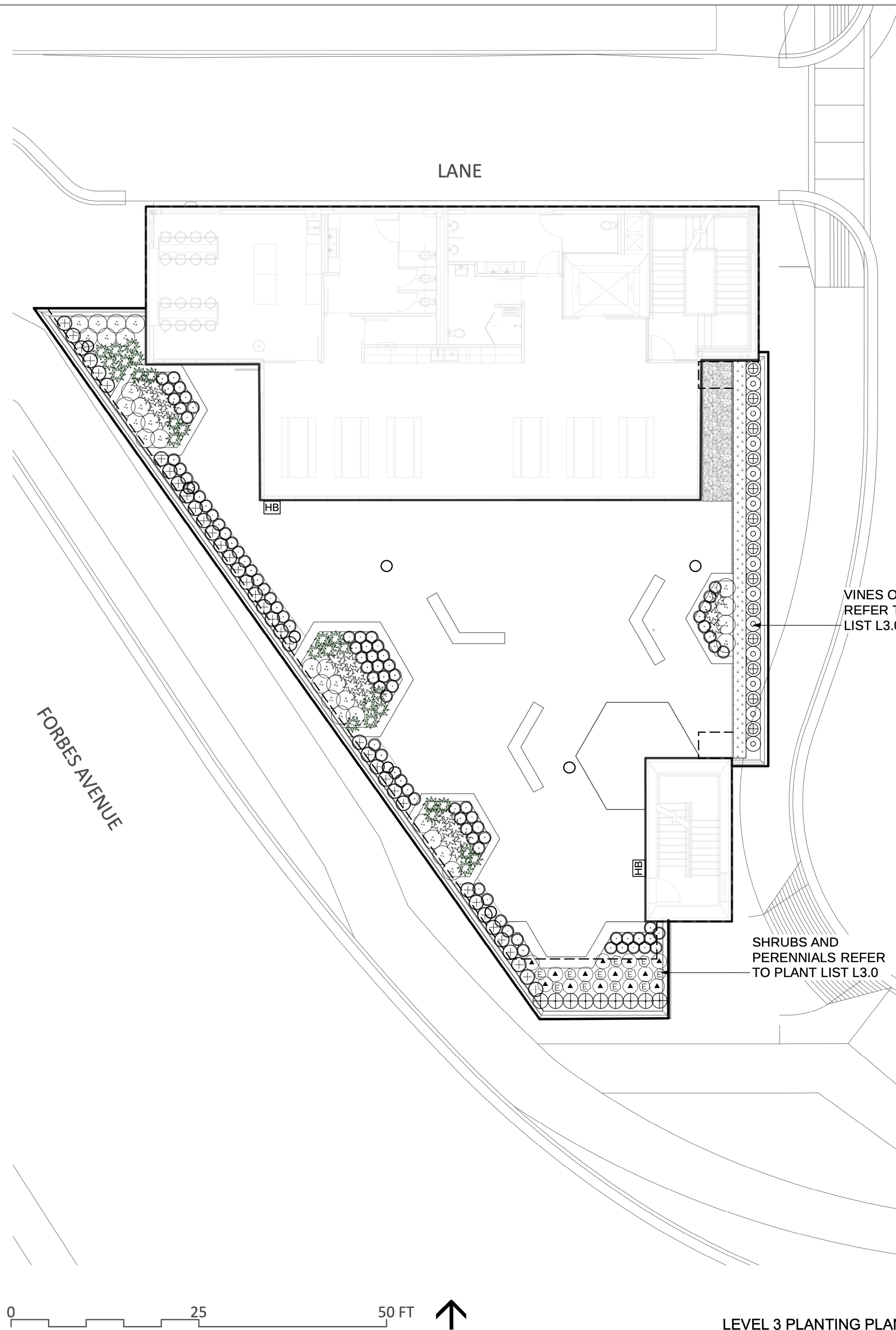
- PLANTING NOTES**
- ALL PLANTING SHALL BE IN ACCORDANCE WITH BC LANDSCAPE STANDARD, AND CANADIAN LANDSCAPE STANDARDS LATEST EDITION.
 - ALL TREE AND SHRUB BEDS ARE TO BE MULCHED WITH 50mm OF 2 MEDIUM FINE MULCH, LESS THAN 50mm DIAMETER.
 - ALL LANDSCAPE AREAS TO BE IRRIGATED WITH HIGH EFFICIENCY IRRIGATION SYSTEM.
 - OFFSITE LANDSCAPE TO BE IRRIGATED TO CNV STANDARDS.
 - ALL OFFSITE TREES TO HAVE MINIMUM OF 15m³ SOIL VOLUME.

SCALE 1/8" = 1'0"



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REVISIONS		

REFER TO L3.0 FOR PLANT LIST

PLANTING NOTES

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2. ALL TREE AND SHRUB BEDS ARE TO BE MULCHED WITH 50mm OF 2 MEDIUM FINE MULCH, LESS THAN 50mm DIAMETER.
3. ALL LANDSCAPE AREAS TO BE IRRIGATED WITH HIGH EFFICIENCY IRRIGATION SYSTEM DESIGN BUILT SYSTEM.

**ALCUIN COLLEGE
4 STOREY**















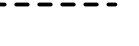


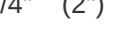
60 Mahon Ave
North Vancouver, British Columbia

Scale:	1/8" = 1'0"
Drawn:	KD / MR
Reviewed:	DS
Project No.	06-462

**PLANTING PLAN
LEVEL 3 & 4**

L3.1

IRRIGATION LEGEND

SYMBOL	DESCRIPTION
	MAIN CONNECTION (REFER TO MECHANICAL) 16.0 USGPM AT 50PSI, 1" DOUBLE CHECK VALVE & RAINBIRD #3 QUICK COUPLER
	TIME CLOCK RAINBIRD ESPSMTE-10 ZONES LOCATED IN MECHANICAL ROOM
	AUTO VALVE RAINBIRD 100 PGA
	AUTO VALVE RAINBIRD DV100F
	AUTO VALVE RAINBIRD XCZF-100-PRF
	WATER CONNECTION
	RAINBIRD 1806-PRS SPRINKLER c/w 12U' NOZZLE
	RAINBIRD 1806-PRS SPRINKLER c/w 10U' NOZZLE
	RAINBIRD 1806-PRS SPRINKLER c/w 8U' NOZZLE
	RAINBIRD 1806-PRS SPRINKLER c/w 5U' NOZZLE
	RAINBIRD 1806-PRS SPRINKLER c/w 15SST NOZZLE
	RAINBIRD 1806-PRS SPRINKLER c/w 15RCS OR LCS NOZZLE
	RAINBIRD 1806-PRS SPRINKLER c/w SQ-QTR NOZZLE
	RAINBIRD 1804-PRS SPRINKLER c/w 15SST NOZZLE PCS-060
	RAINBIRD XFS-09-12 DRIPLINE
	RAINBIRD SXB-180-SPYK XERI-BUBBLER (2 PER PLANTER)
	RAINBIRD SXB-180-SPYK XERI-BUBBLER (3 PER PLANTER)
	LINE SIZE (SLEEVE SIZE)

IRRIGATION NOTES

1. FLOW THRU ALL PIPING NOT TO EXCEED 5FT. / SEC
2. ALL DRIPLINE TO BE LOOPED, INSTALL AIR / VACUUM RELIEF VALVE AT HIGH POINT OF EACH ZONE.
3. EXACT LOCATION OF PIPING RUNS TO BE DETERMINED ON SITE.
4. LOCATION OF WEATHER STATION AND WIRING RUN BETWEEN CONTROLLER & WEATHER STATION TO BE DETERMINED ON SITE.
5. ALL OFFSITE IRRIGATION TO MEET MUNICIPAL SPECIFICATIONS AND STANDARDS.
6. LEVEL 3 IRRIGATION TO BE HEAT TRACED SYSTEM TO OPERATE ALL YEAR.

NO.	DESCRIPTION	DATE
12	RE-ISSUED FOR DP/RZ	20-10-16
11	ISSUED FOR DP/RZ	20-07-17
10	RE-ISSUED FOR BP	20-05-13
9	ISSUED FOR BP REVIEW	20-05-06
8	ISSUED FOR BP	19-07-05
7	ISSUED FOR TENDER	17-07-21
6	ISSUED FOR BP	17-05-08
5	ISSUED FOR 80% BP COORDINATION	17-04-03
4	ISSUED FOR 50% BP COORDINATION	17-02-22
3	REVISED PER PRIOR TO COMMENTS	16-09-28
2	ISSUED FOR REVIEW	16-04-28
1	ISSUED FOR DP/RZ	16-03-01

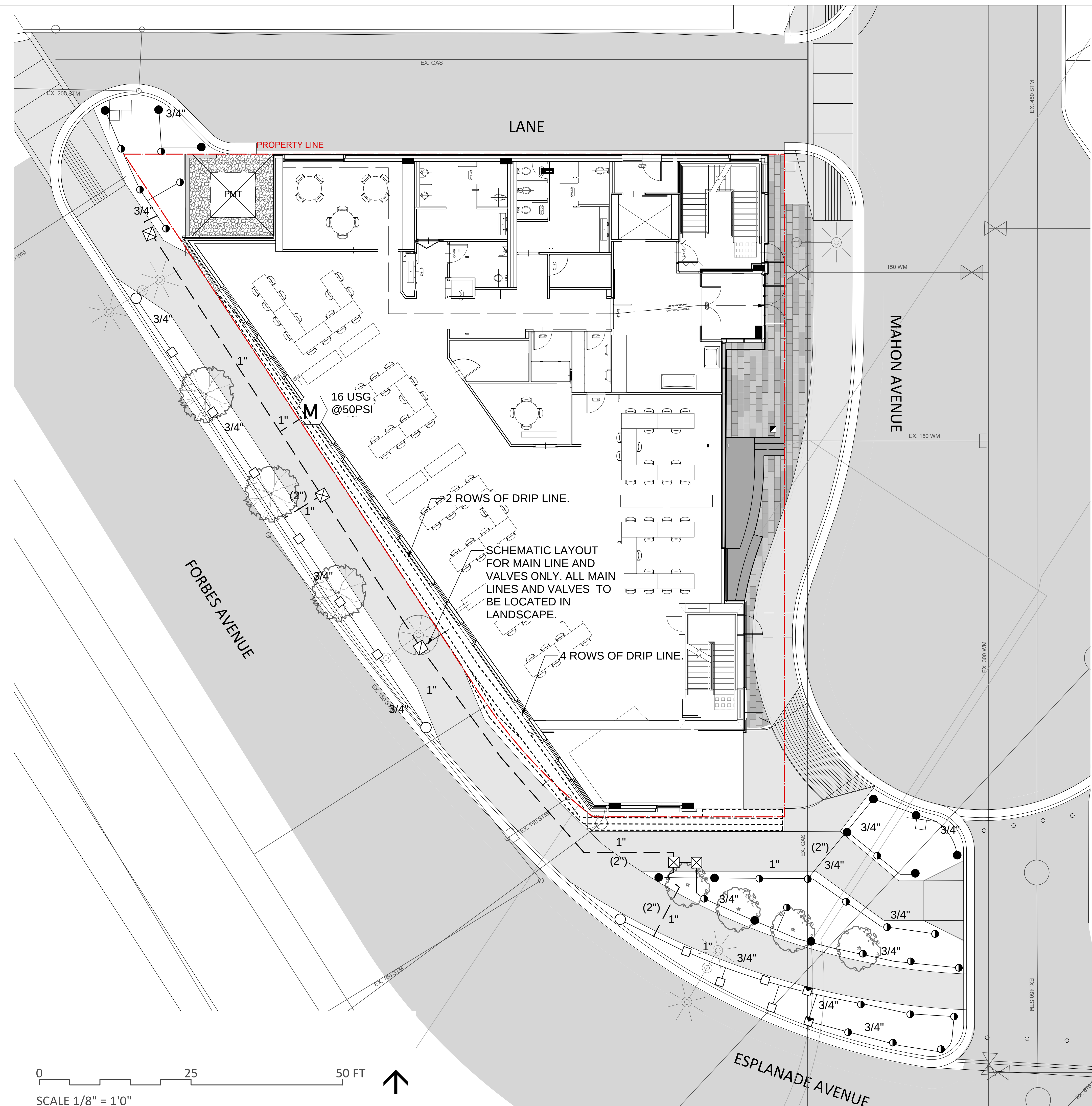
REVISIONS

**ALCUIN COLLEGE
4 STOREY**

60 Mahon Ave
North Vancouver, British Columbia

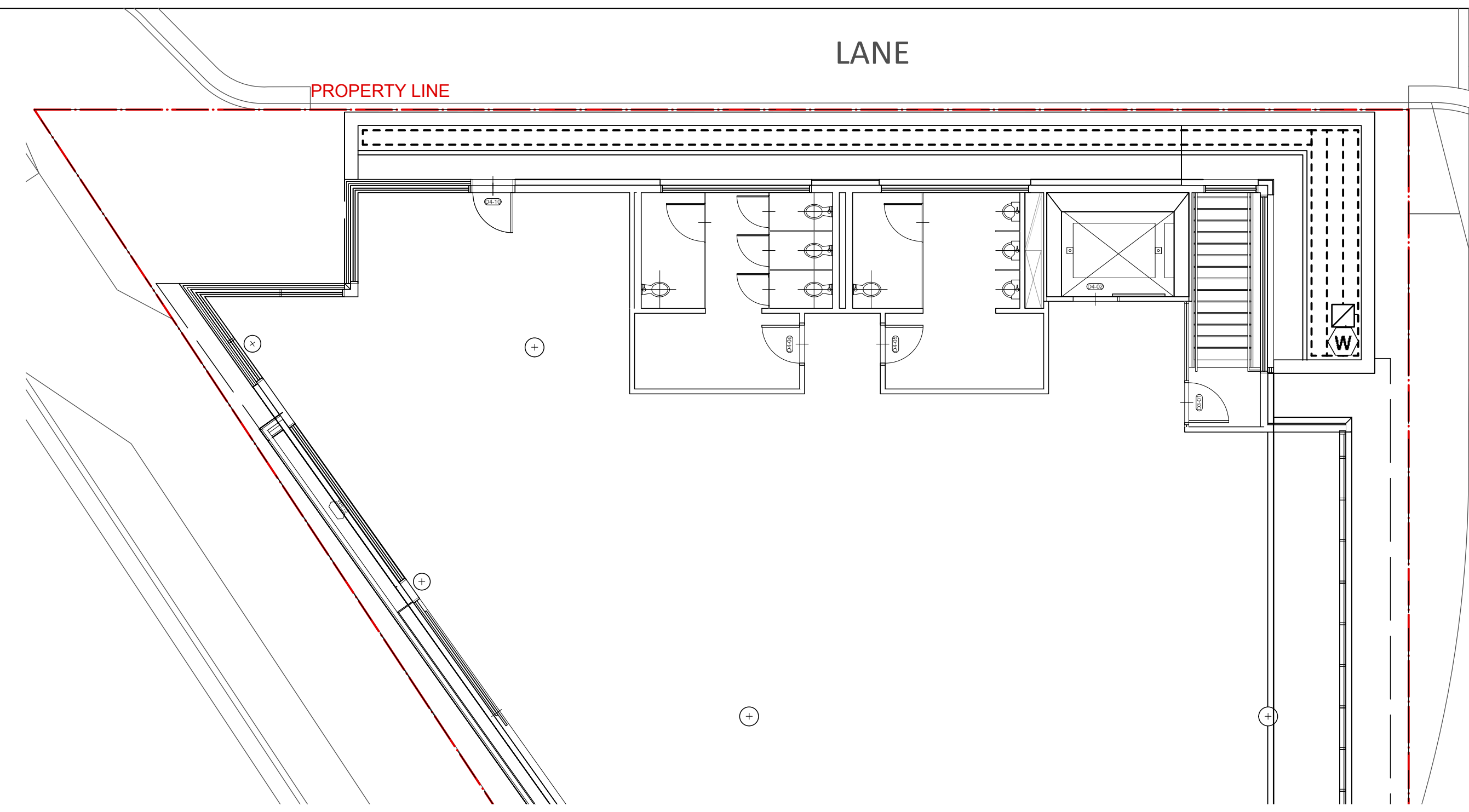
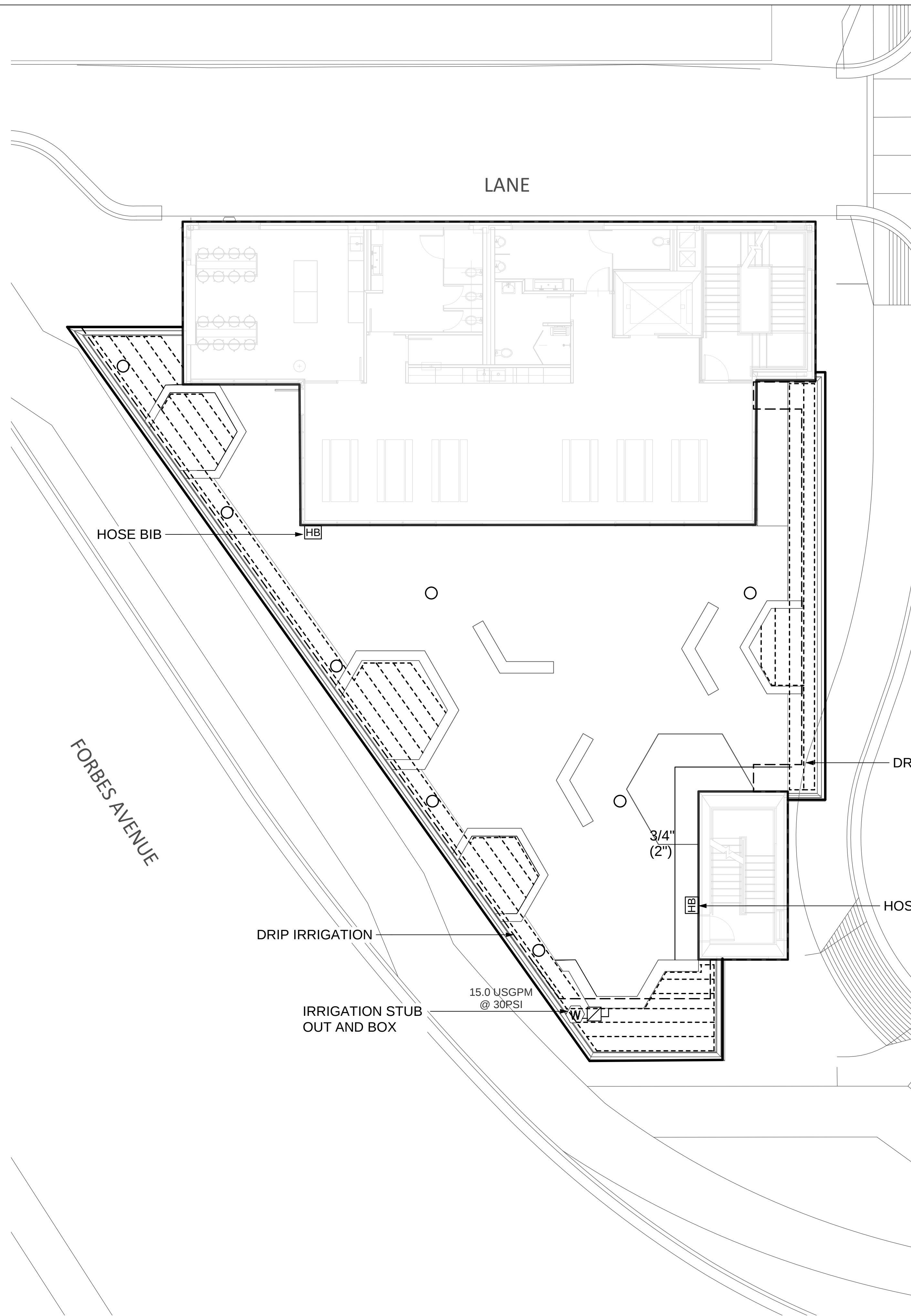
Scale:	1/8" = 1'0"
Drawn:	KD / MR
Reviewed:	DS
Project No.	06-462

**GROUND LEVEL
IRRIGATION PLAN**



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LEVEL 4 IRRIGATION PLAN



SCALE 1/8" = 1'0"

IRRIGATION LEGEND

SYMBOL	DESCRIPTION
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	TIME CLOCK RAINBIRD ESPSMTE-10 ZONES LOCATED IN MECHANICAL ROOM
	AUTO VALVE RAINBIRD 100 PGA
	AUTO VALVE RAINBIRD DV100F
	AUTO VALVE RAINBIRD XCZF-100-PRF
	WATER CONNECTION
	RAINBIRD 1806-PRS SPRINKLER c/w 12U' NOZZLE
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	RAINBIRD 1806-PRS SPRINKLER c/w 8U' NOZZLE
	RAINBIRD 1806-PRS SPRINKLER c/w 5U' NOZZLE
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	RAINBIRD 1806-PRS SPRINKLER c/w SQ-QTR NOZZLE
	RAINBIRD 1804-PRS SPRINKLER c/w 15SST NOZZLE PCS-060
	RAINBIRD XFS-09-12 DRIPLINE
	RAINBIRD SXB-180-SPYK XERI-BUBBLER (2 PER PLANTER)
	RAINBIRD SXB-180-SPYK XERI-BUBBLER (3 PER PLANTER)
	3/4" (2") LINE SIZE (SLEEVE SIZE)

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11	ISSUED FOR DP/RZ	20-07-17
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9	ISSUED FOR BP REVIEW	20-05-06
8	ISSUED FOR BP	19-07-05
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2	ISSUED FOR REVIEW	16-04-28
1	ISSUED FOR DP/RZ	16-03-01

REVISIONS

**ALCUIN COLLEGE
4 STOREY**

60 Mahon Ave
North Vancouver, British Columbia

Scale: 1/8" = 1'0"

Drawn: KD / MR

Reviewed: DS

Project No. 06-462

**LEVEL 3
IRRIGATION PLAN**

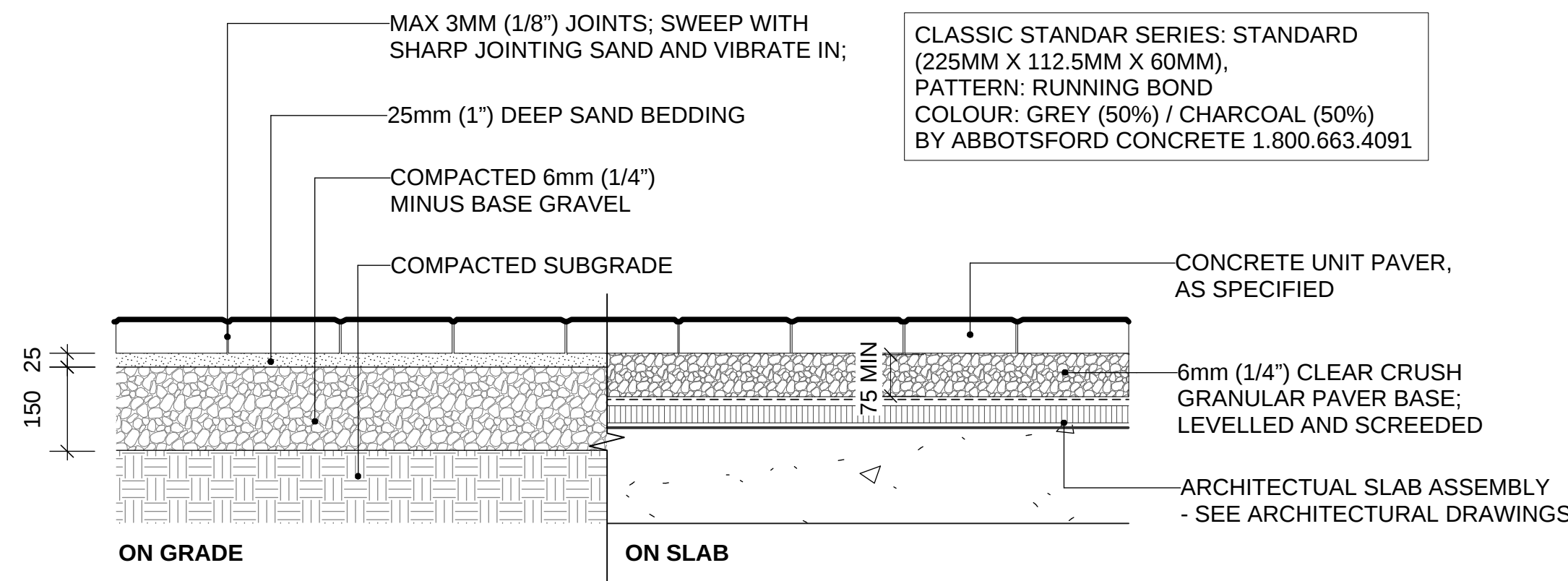
IRRIGATION NOTES

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LEVEL 3 IRRIGATION PLAN



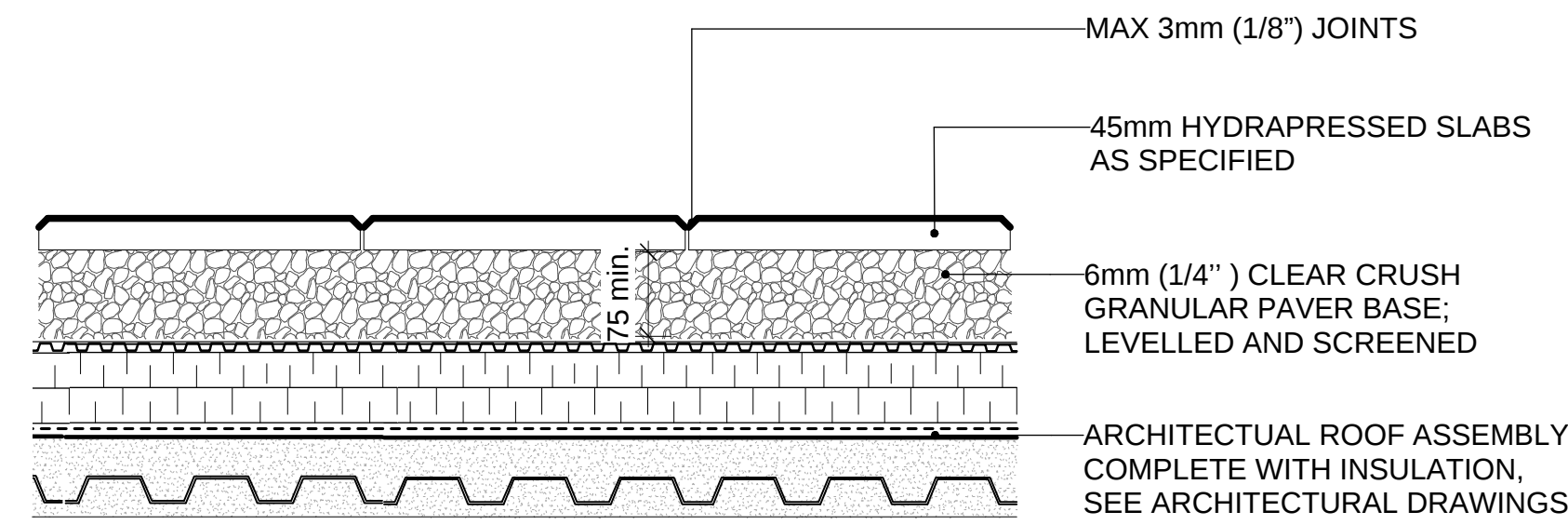
SCALE 1/8" = 1'0"



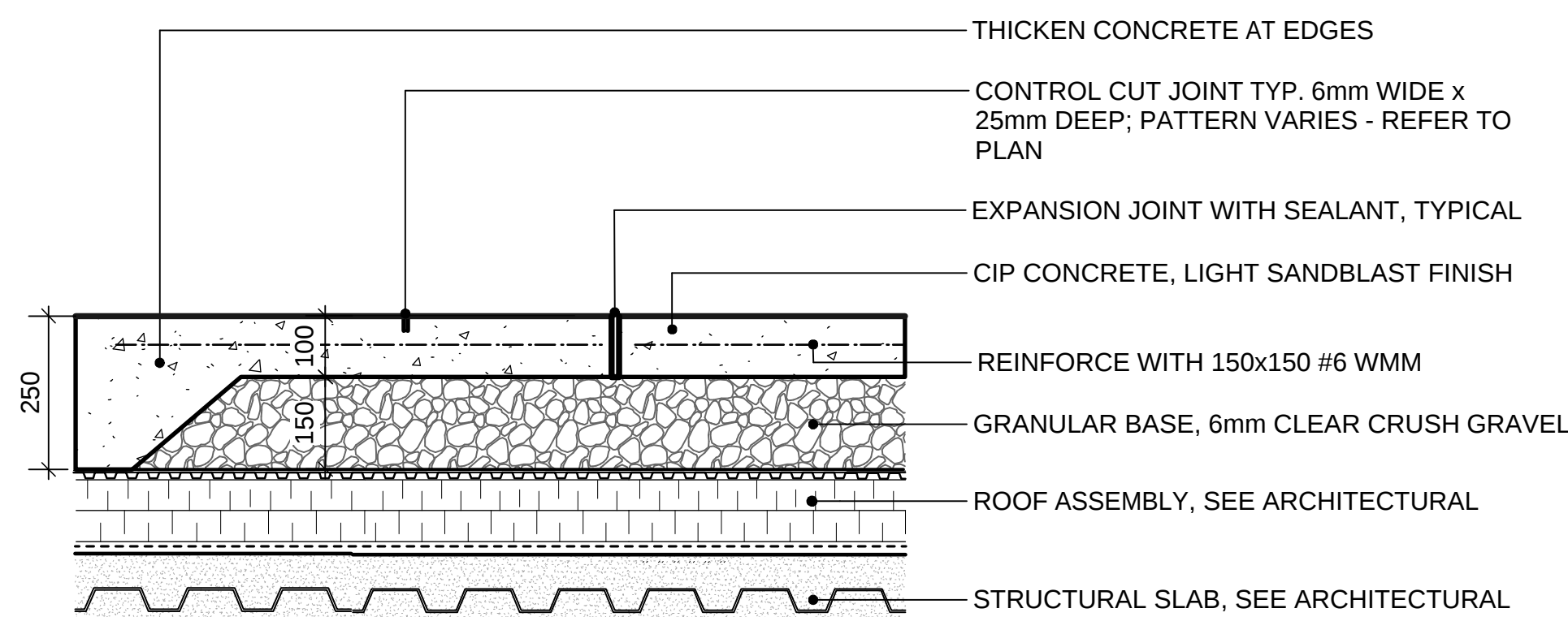
- NOTES:
1. USE CONCRETE HIDDEN EDGE RESTRAINT WHEN PAVERS ARE NOT ADJACENT TO A SOLID EDGE CONDITION.
2. USE VOIDING IF REQUIRED; REFER TO ARCHITECTURAL DRAWINGS.

1 PEDESTRIAN PAVERS
Scale: 1:10

TYPE A: HEXAGON PAVERS
SIZE: 21.5"
COLOURS: GREY (60%) / CHARCOAL (40%) RANDOM
BY STEPSTONE INC. PH 1-800-572-9029
OR APPROVED ALTERNATE

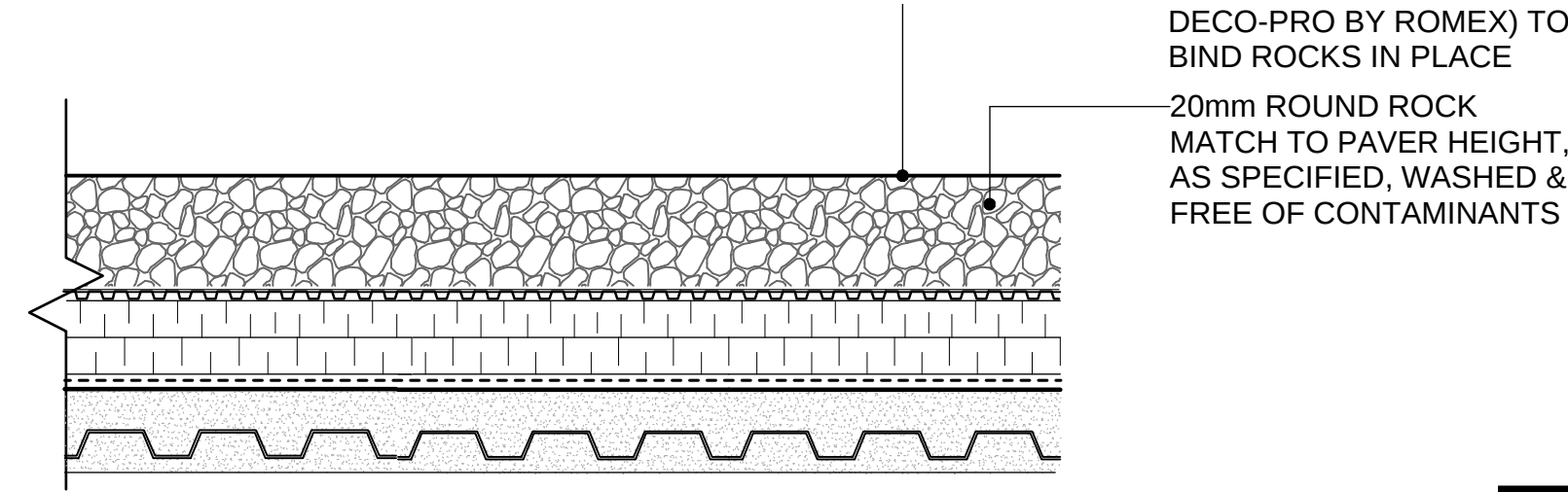


2 HYDRA-PRESSED PAVERS, ON SLAB
Scale: 1:10

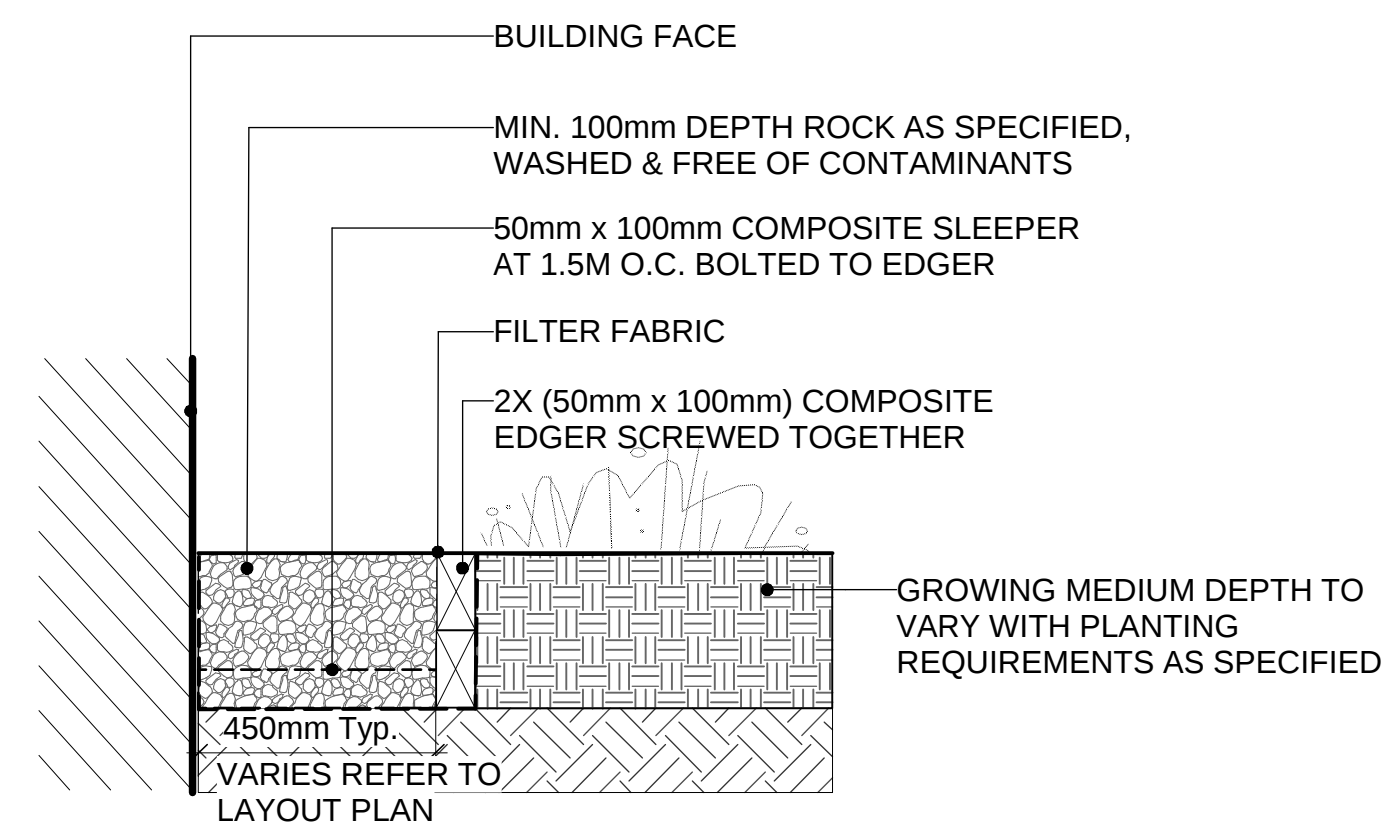


- NOTES:
1. EXPANSION JOINTS 6m O.C. MAX, CONTROL JOINTS @ 1.5m O.C. ADJUST TO SUIT SITE LAYOUT PLAN.
2. ALL SCORELINES TO BE APPROVED BY LANDSCAPE ARCHITECT ON-SITE PRIOR TO INSTALLATION.

3 CIP CONCRETE ON SLAB (TYPICAL)
Scale: 1:10

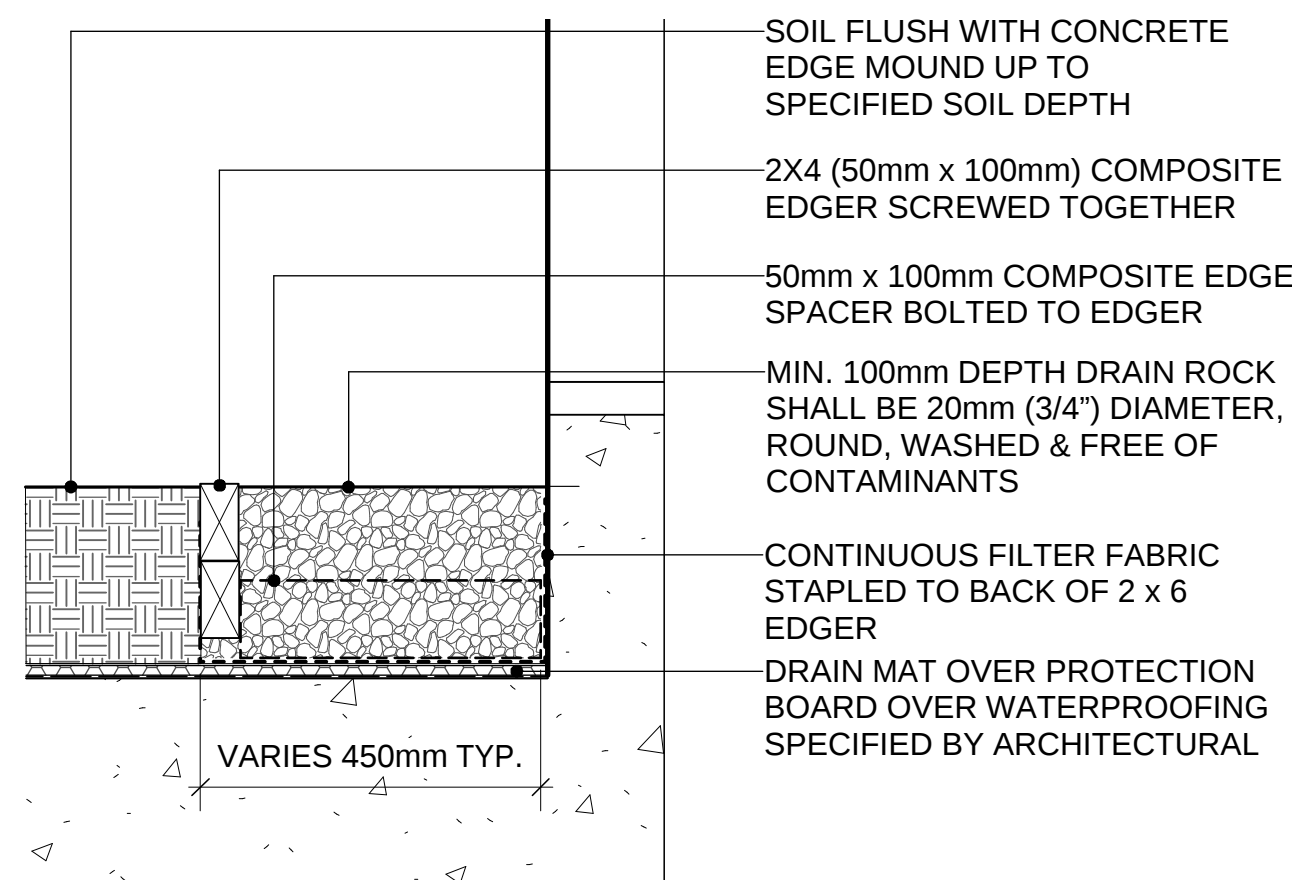


4 DECORATIVE ROCK SURFACE ON SLAB (TYPICAL)
Scale: 1:10



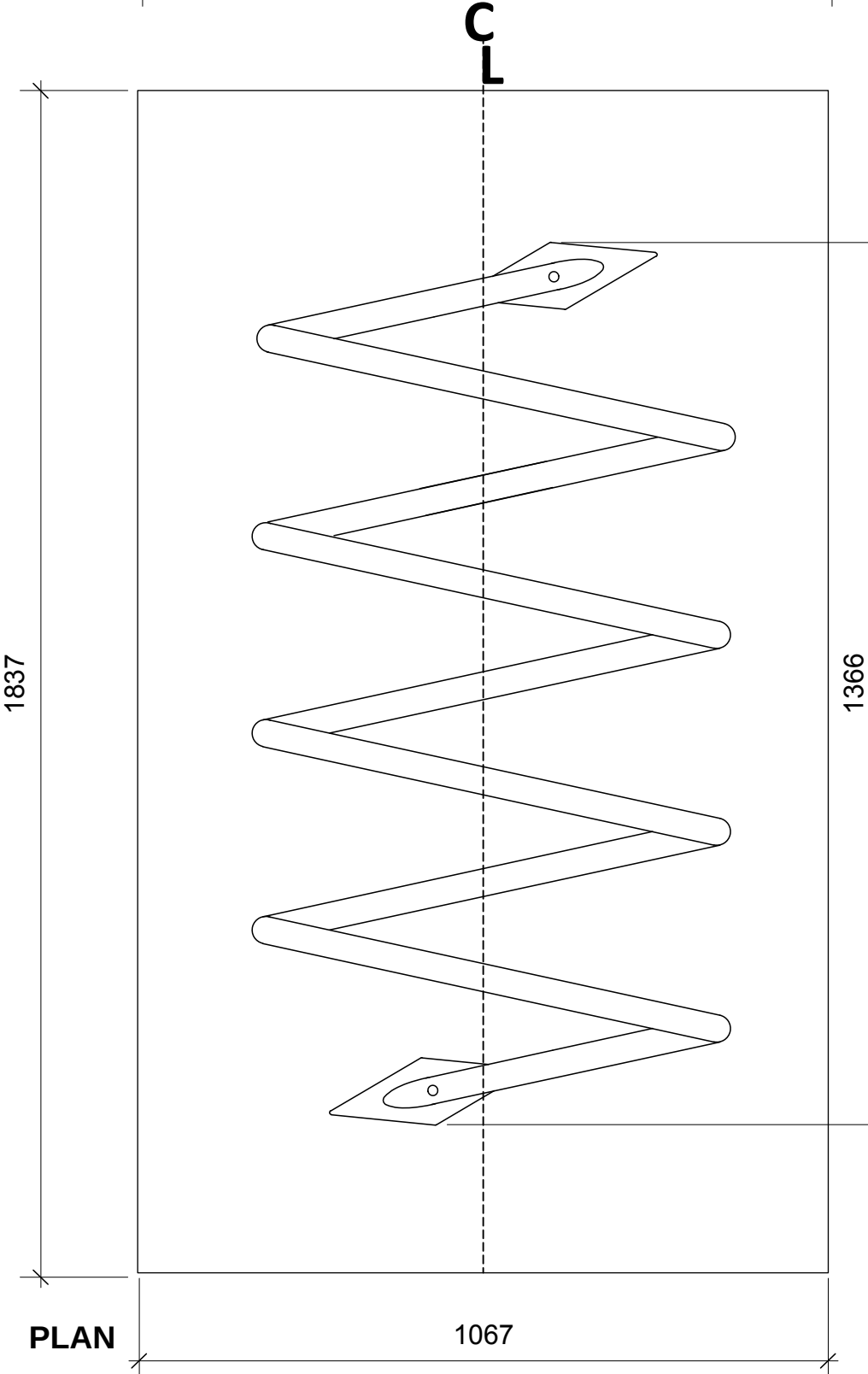
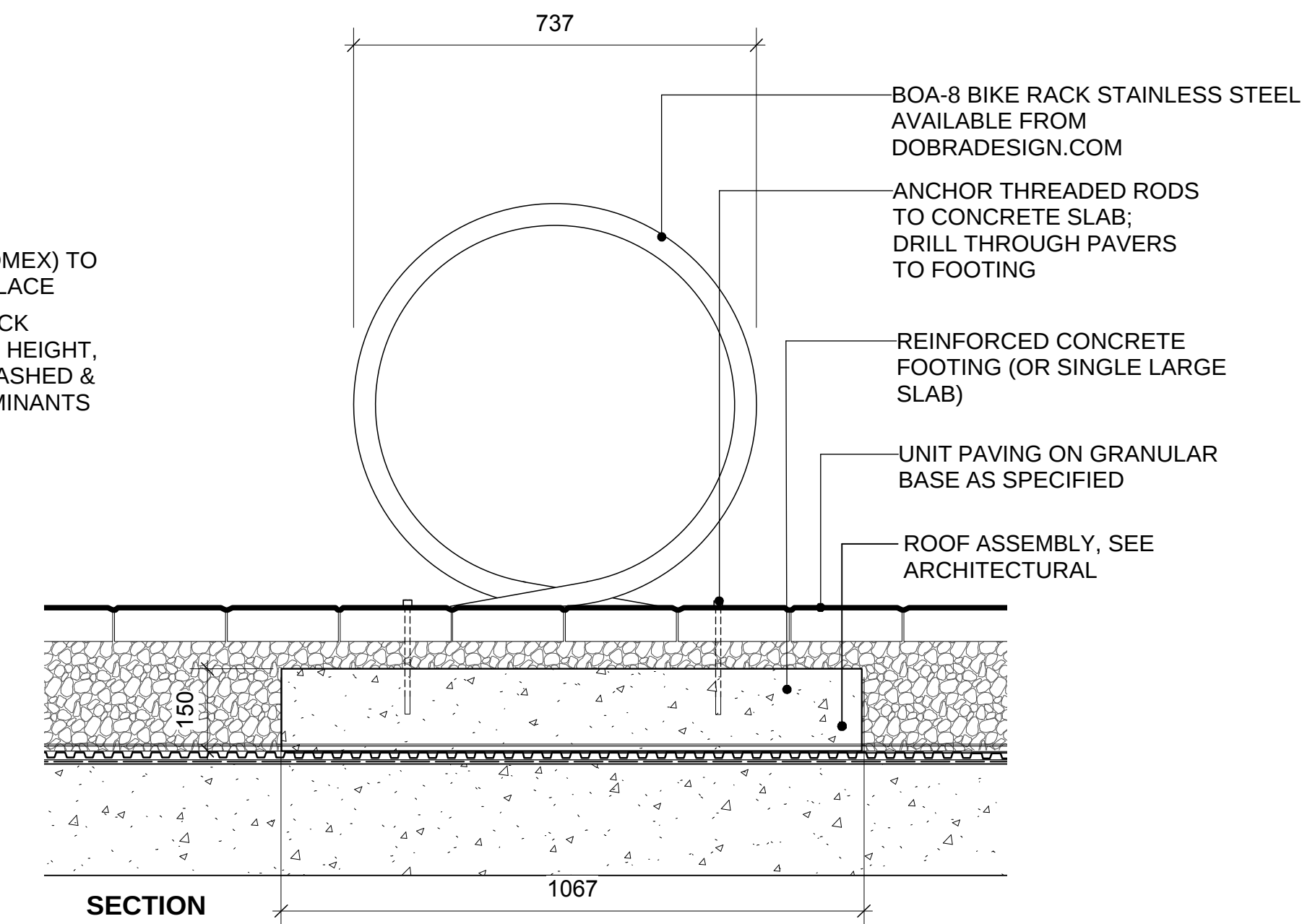
- NOTE:
1. COMPOSITE BOARDS TO BE BENDA BOARD LANDSCAPE EDGER BY WISHBONE SITE FURNISHINGS.

5 DRAINAGE STRIP ON GRADE
Scale: 1:10

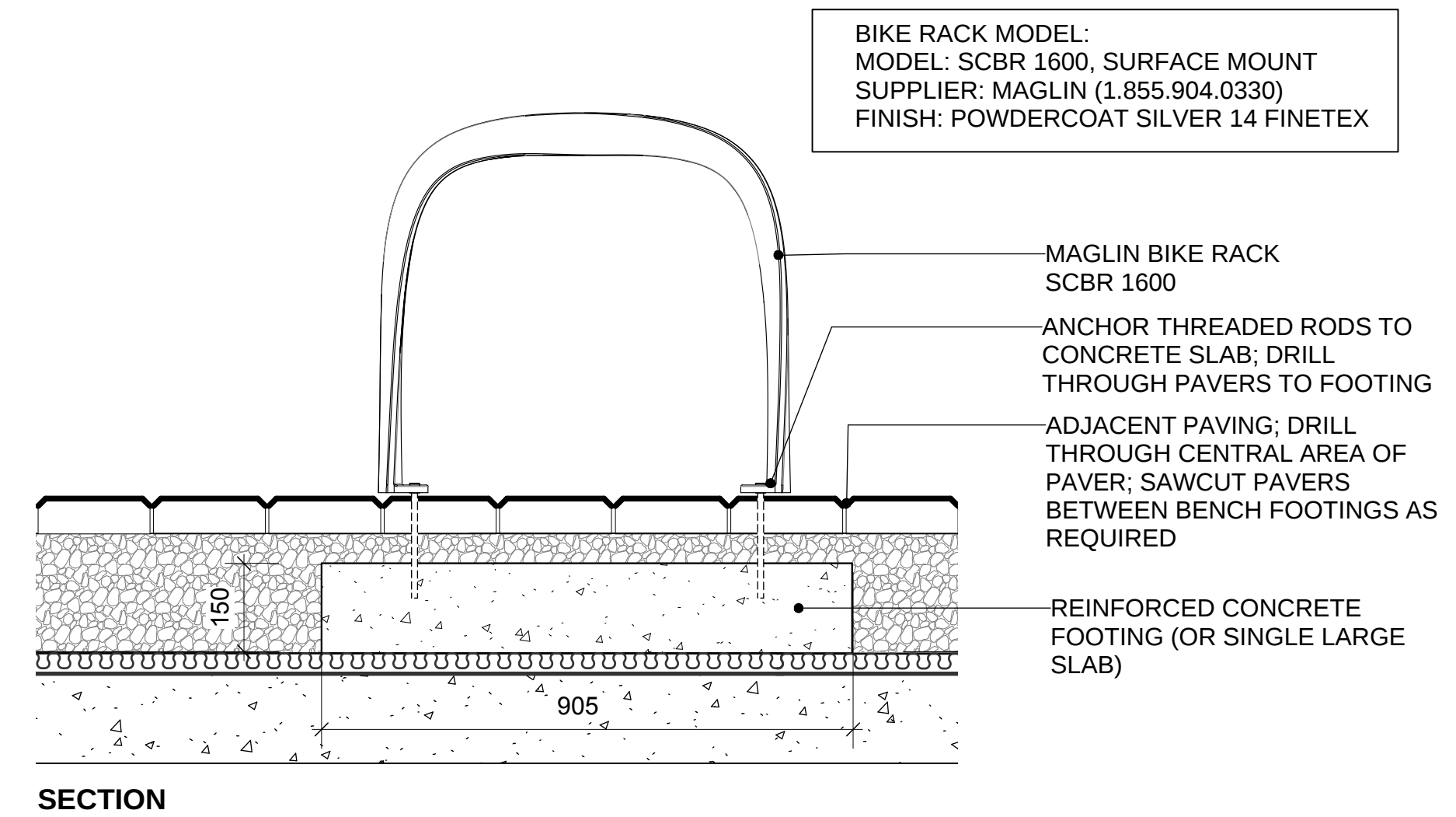


- NOTE:
1. COMPOSITE BOARDS TO BE BENDA BOARD LANDSCAPE EDGER BY WISHBONE SITE FURNISHINGS.

6 DRAINAGE STRIP ON SLAB
Scale: 1:10



7 BIKE RACK TYPE 1
Scale: 1:10



8 BIKE RACK TYPE 2
Scale: 1:10

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REVISIONS

ALCUIN COLLEGE

60 Mahon Ave
North Vancouver, British Columbia

Scale: AS SHOWN

Drawn: MR

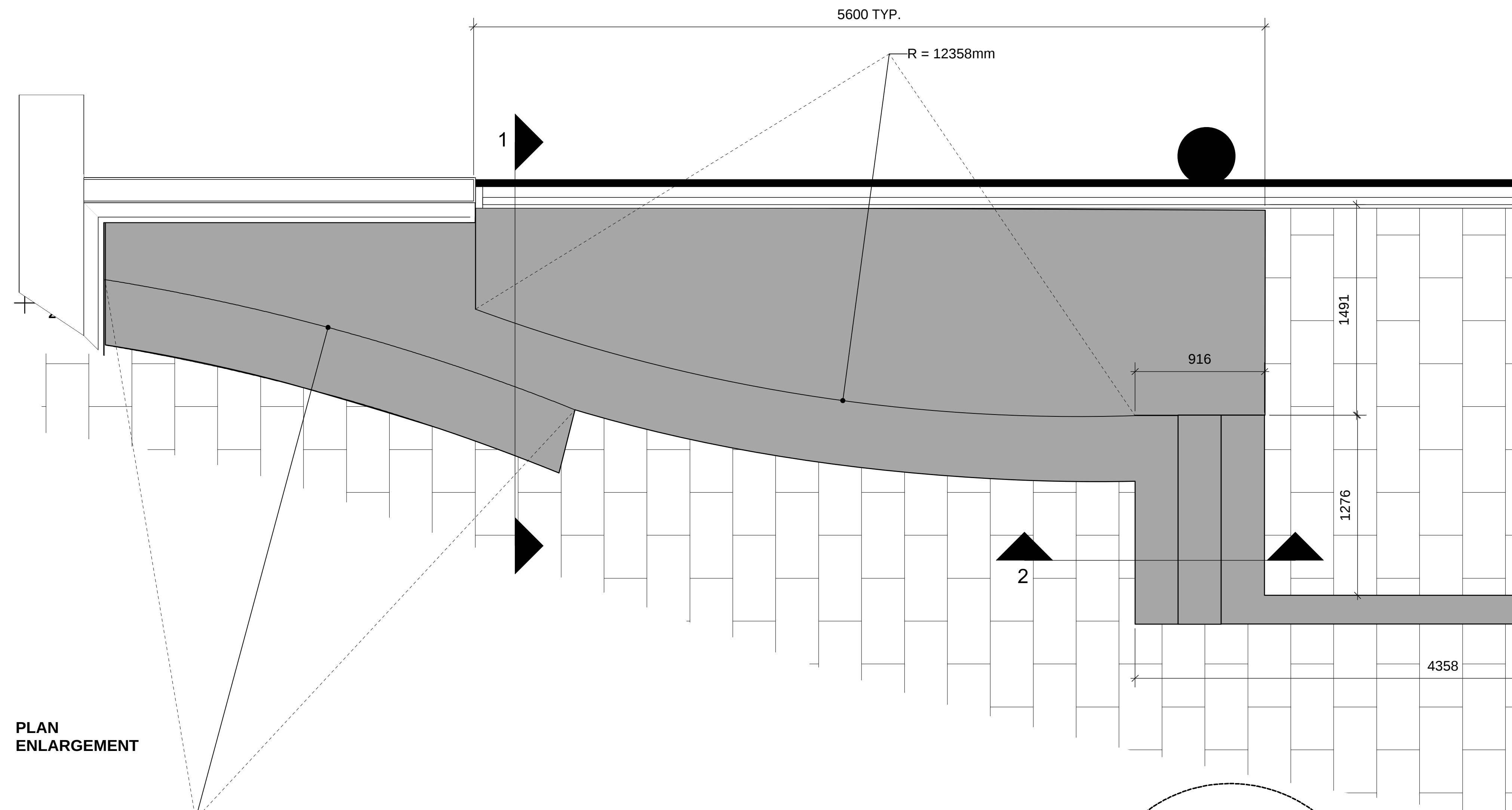
Reviewed: DS

Project No. 06-462

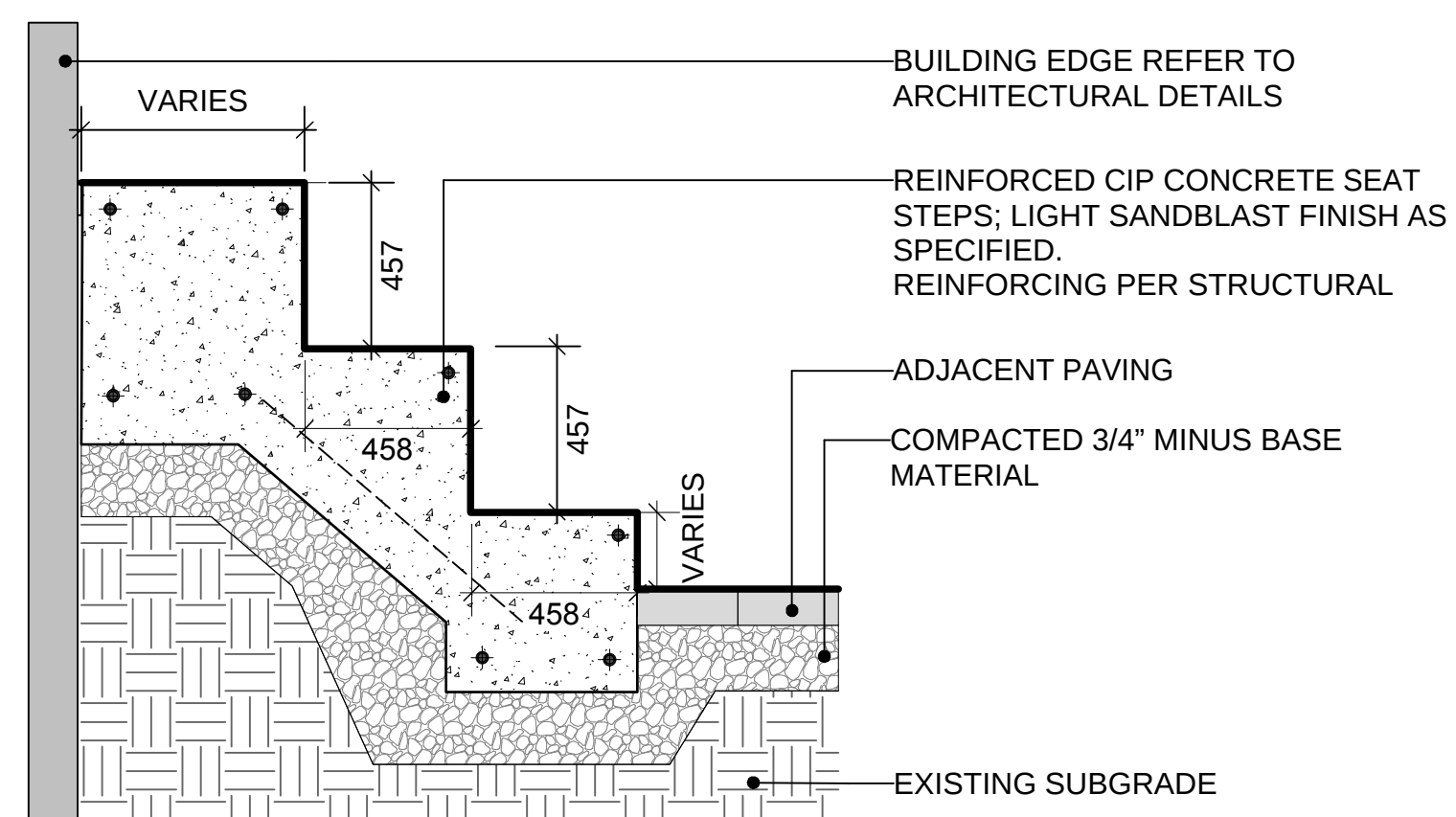
**DETAILS
HARDSCAPE**

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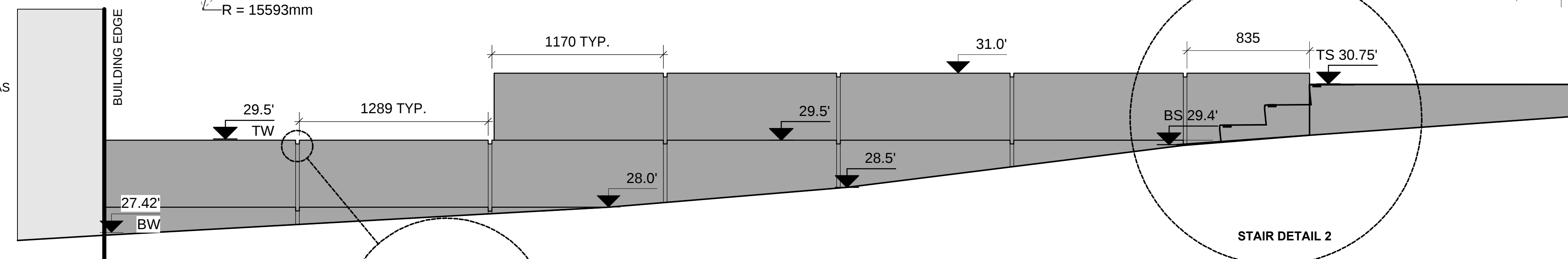


PLAN ENLARGEMENT

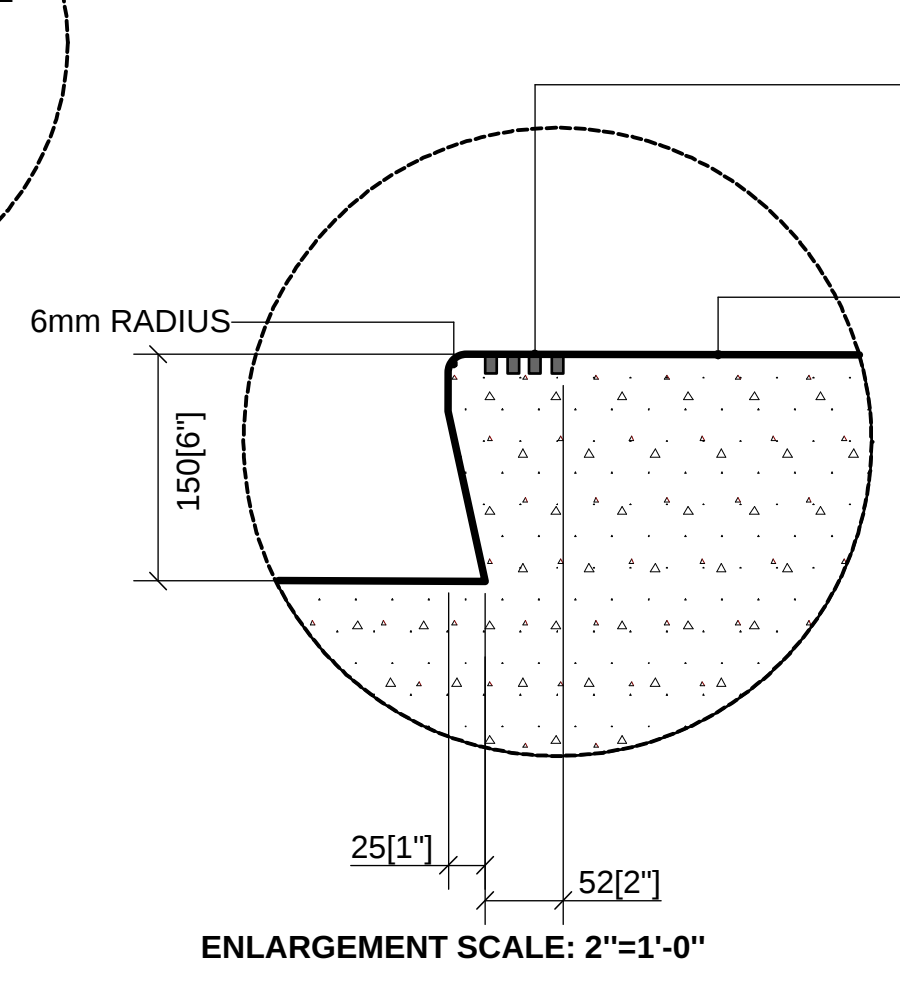
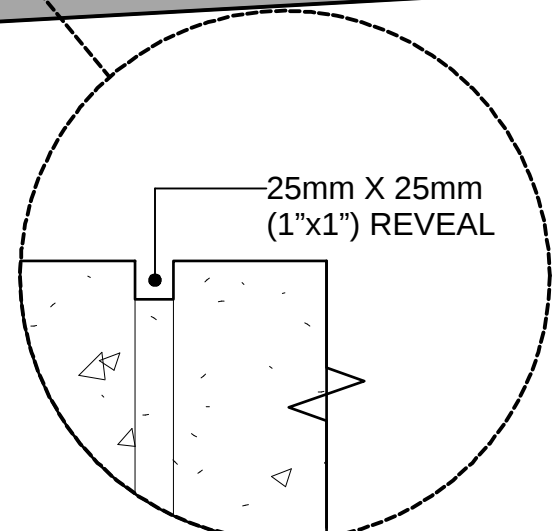


SECTION

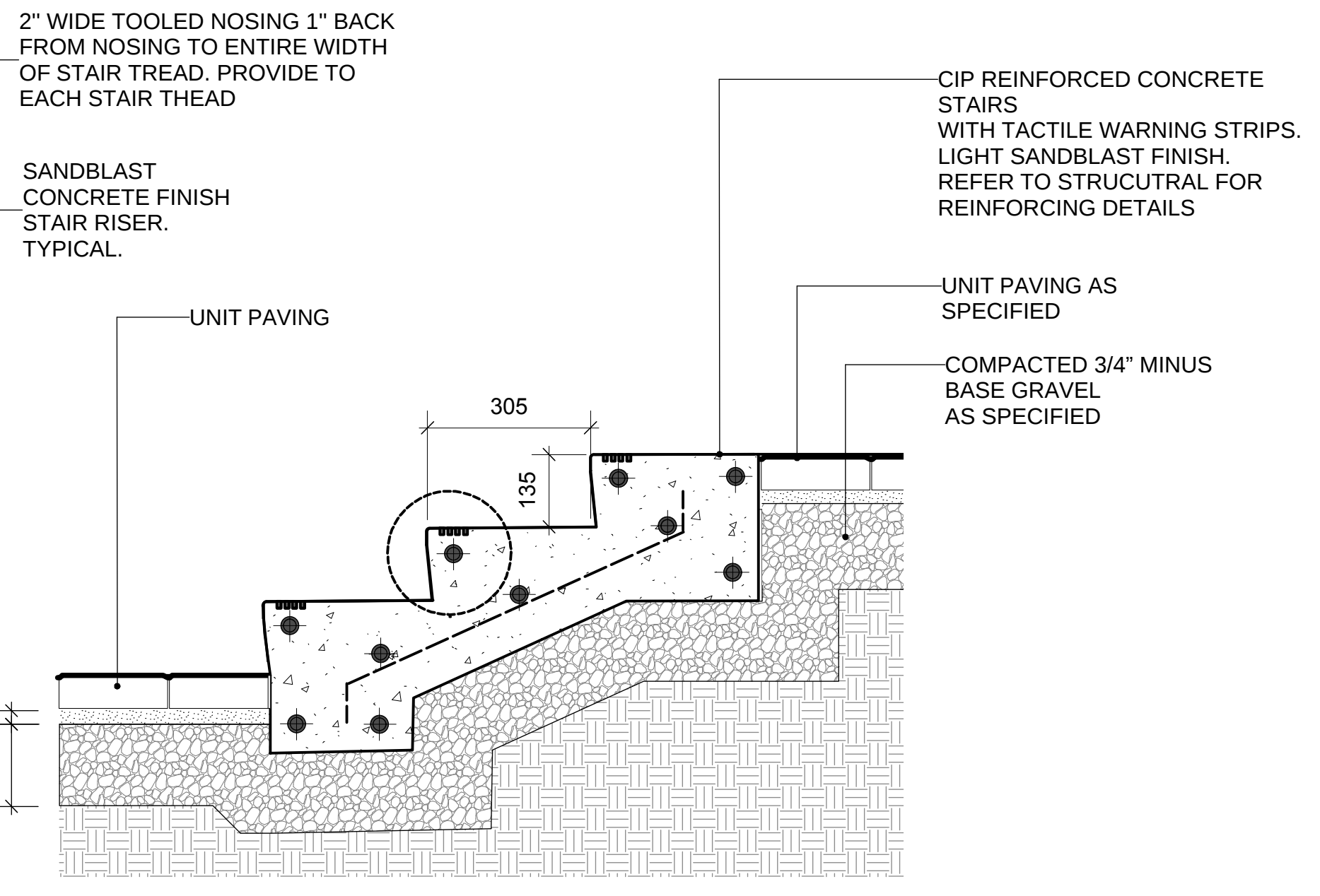
1 ENTRY CONCRETE SEAT WALL
Scale: 1:20



ELEVATION



ENLARGEMENT SCALE: 2\"/>



2 CIP CONCRETE STAIR
Scale: 1:10

11	RE-ISSUED FOR RZ/DP	20-10-16
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REVISIONS

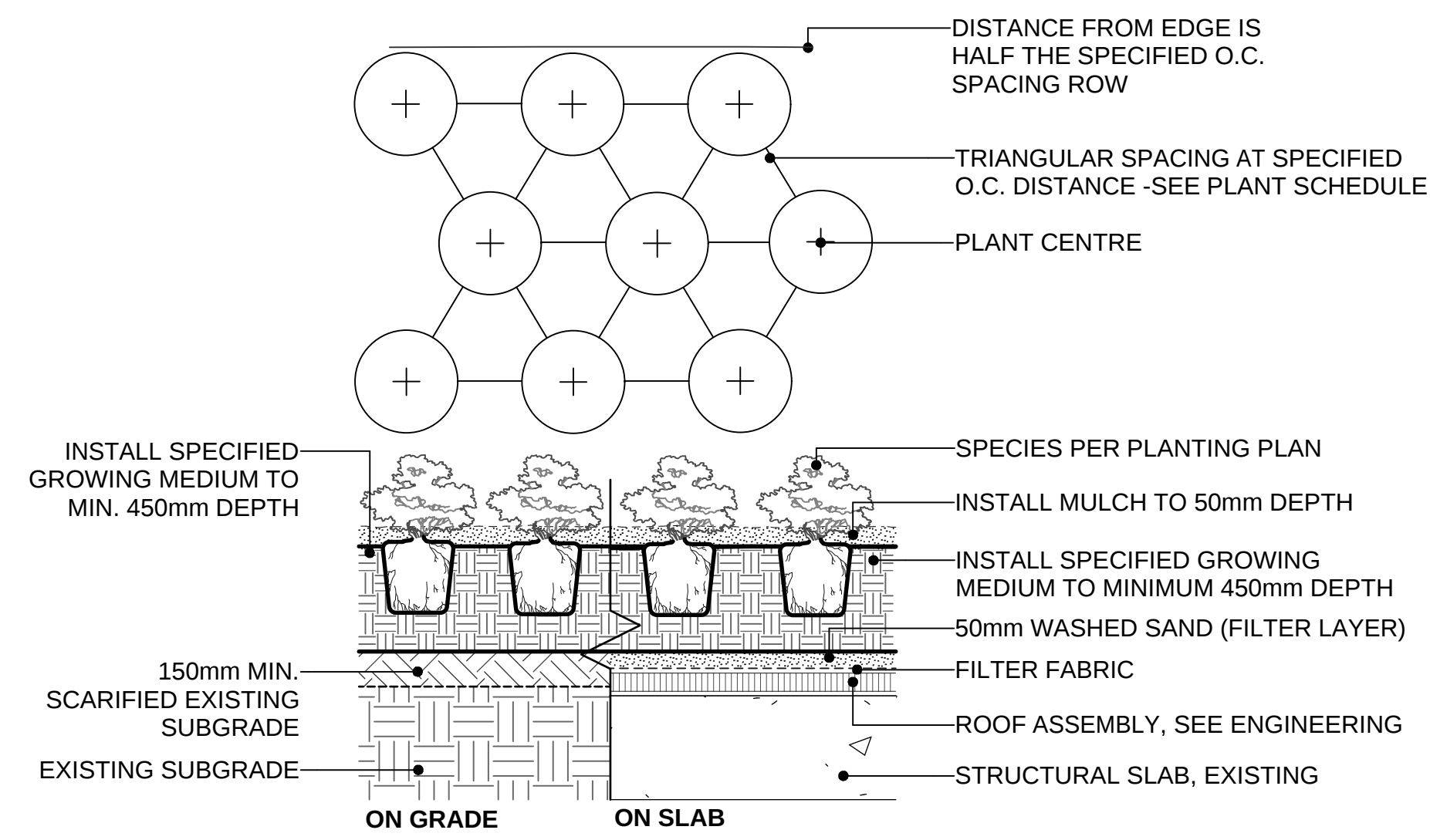
ALCUIN COLLEGE
60 Mahon Ave
North Vancouver, British Columbia

Scale: AS SHOWN
Drawn: MR
Reviewed: DS
Project No. 06-462

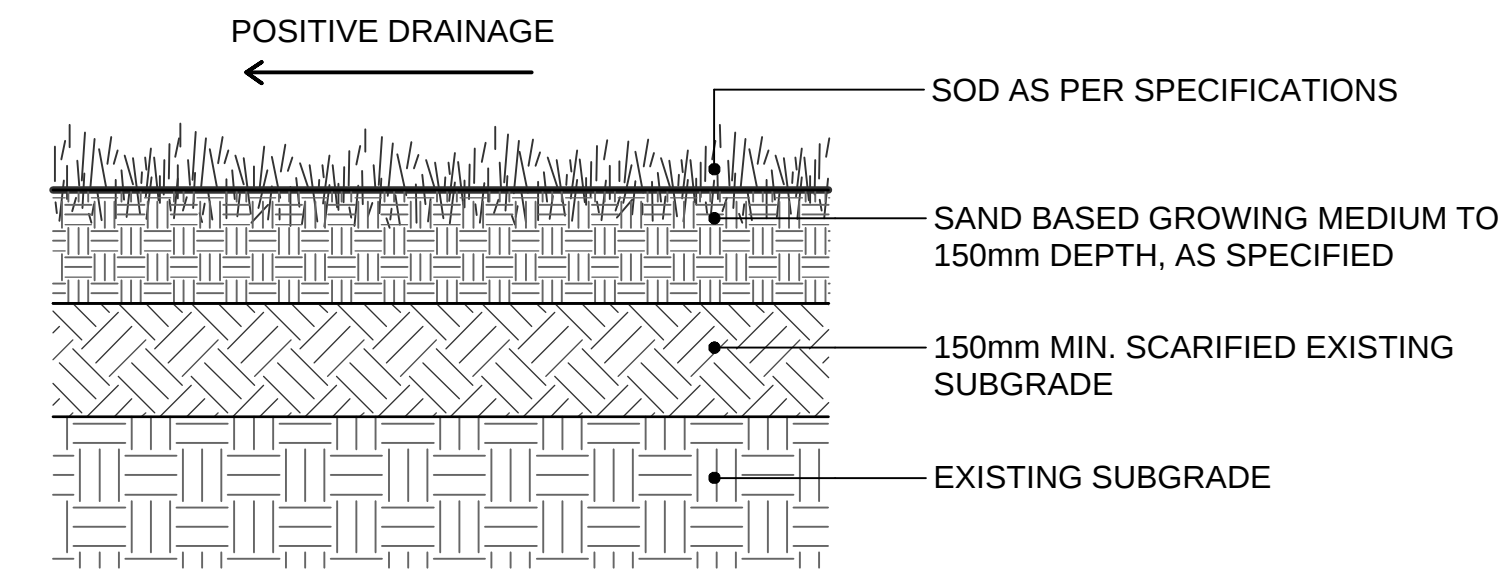
DETAILS
SEAT WALL

CONNECT LANDSCAPE ARCHITECTURE INC. DOES NOT GUARANTEE THE EXISTENCE, LOCATION, AND ELEVATION OF UTILITIES AND / OR CONCEALED STRUCTURES AT THE PROJECT SITE.

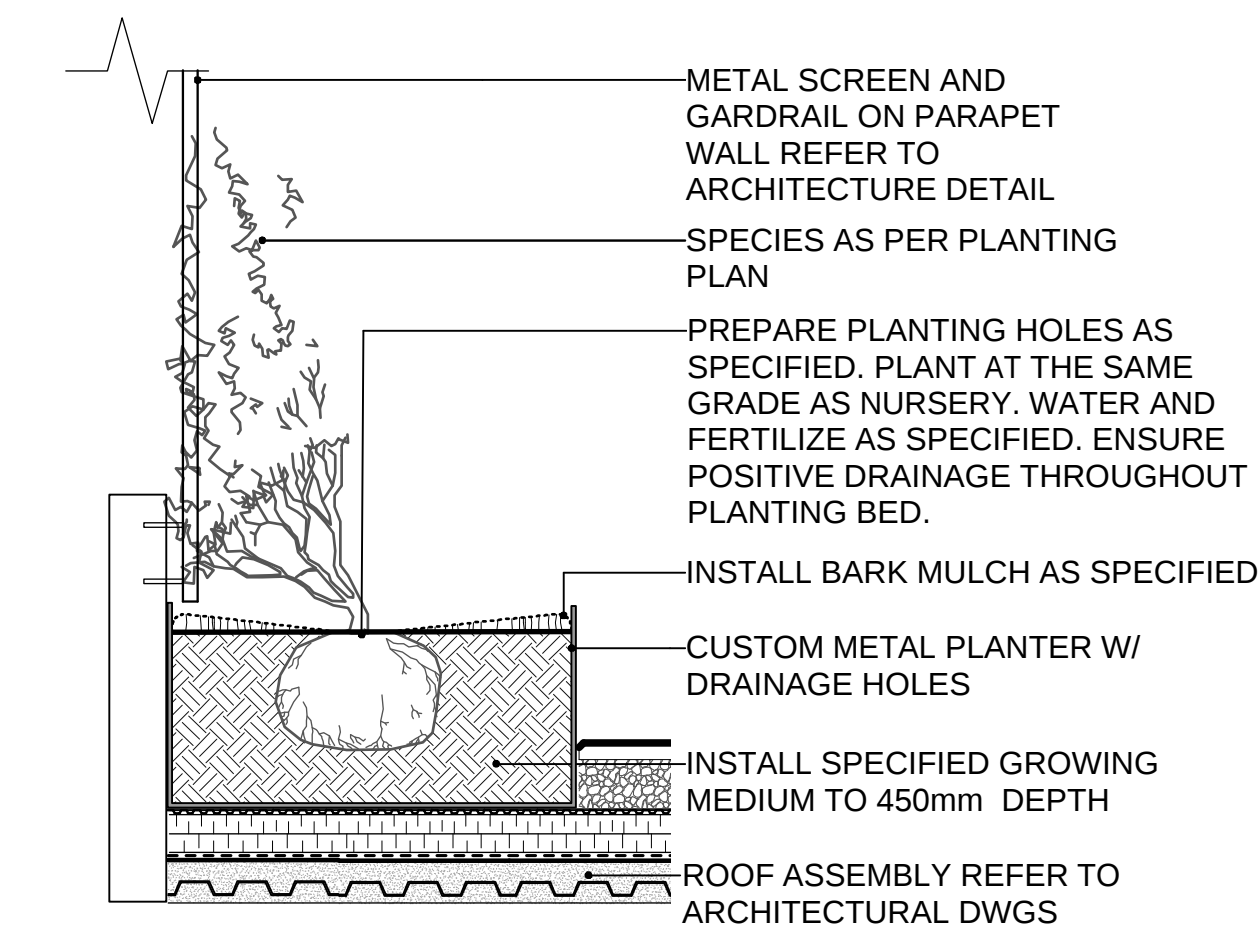
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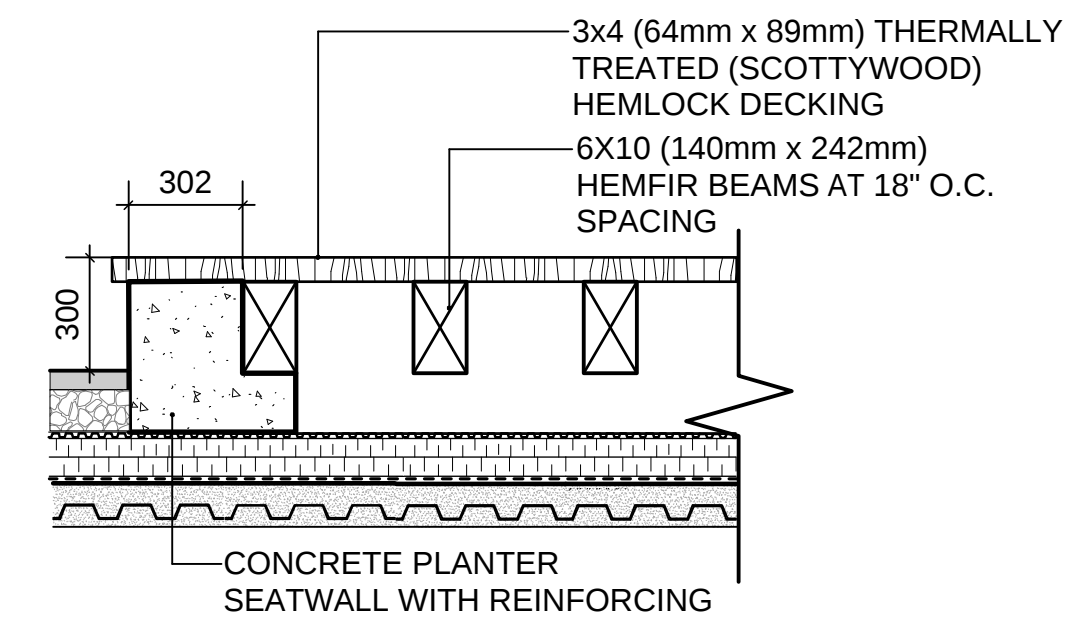
1 SHRUB AND GROUNDCOVER PLANTING (TYPICAL)
Scale: 1:25



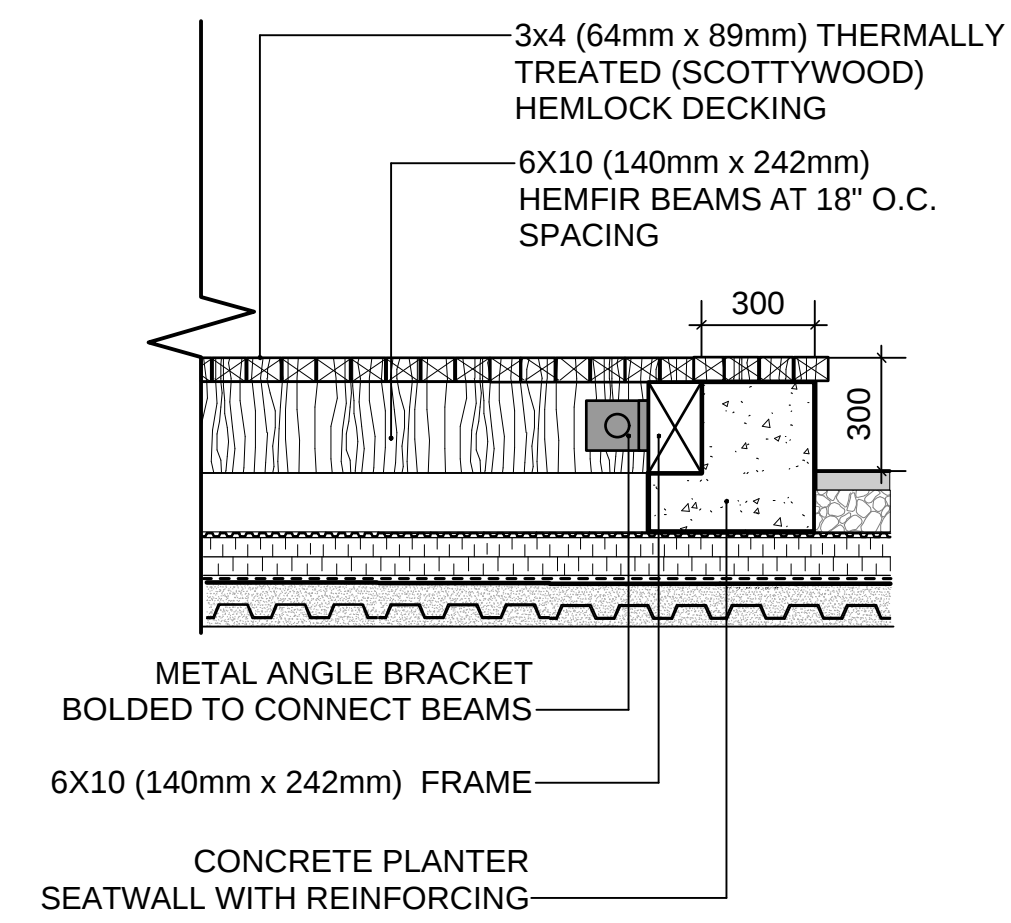
2 SOD LAWN ON GRADE (TYPICAL)
Scale: 1:10



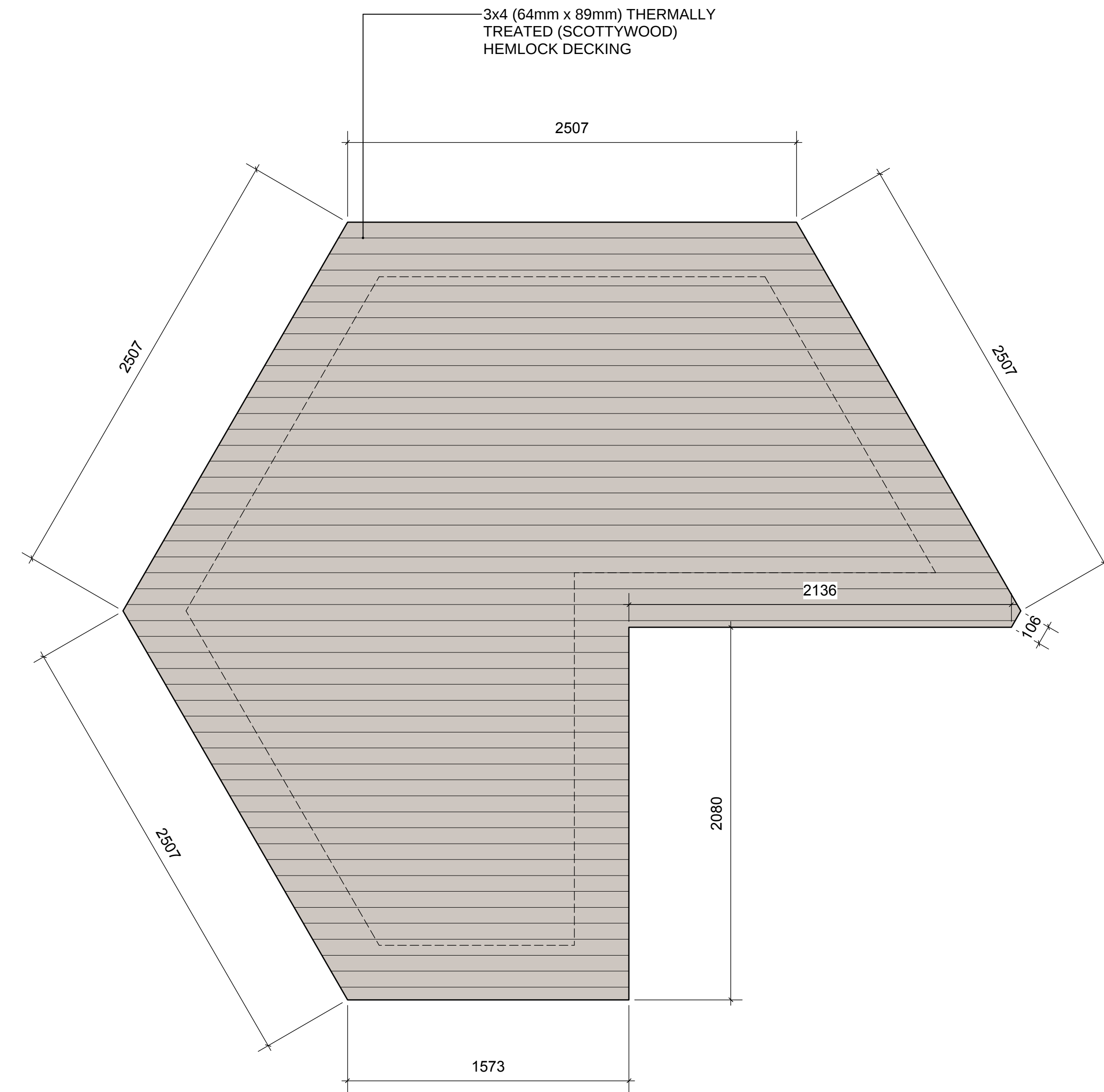
3 VINE PLANTING IN METAL PLANTER LEVEL 3 DECK
Scale: 1:20



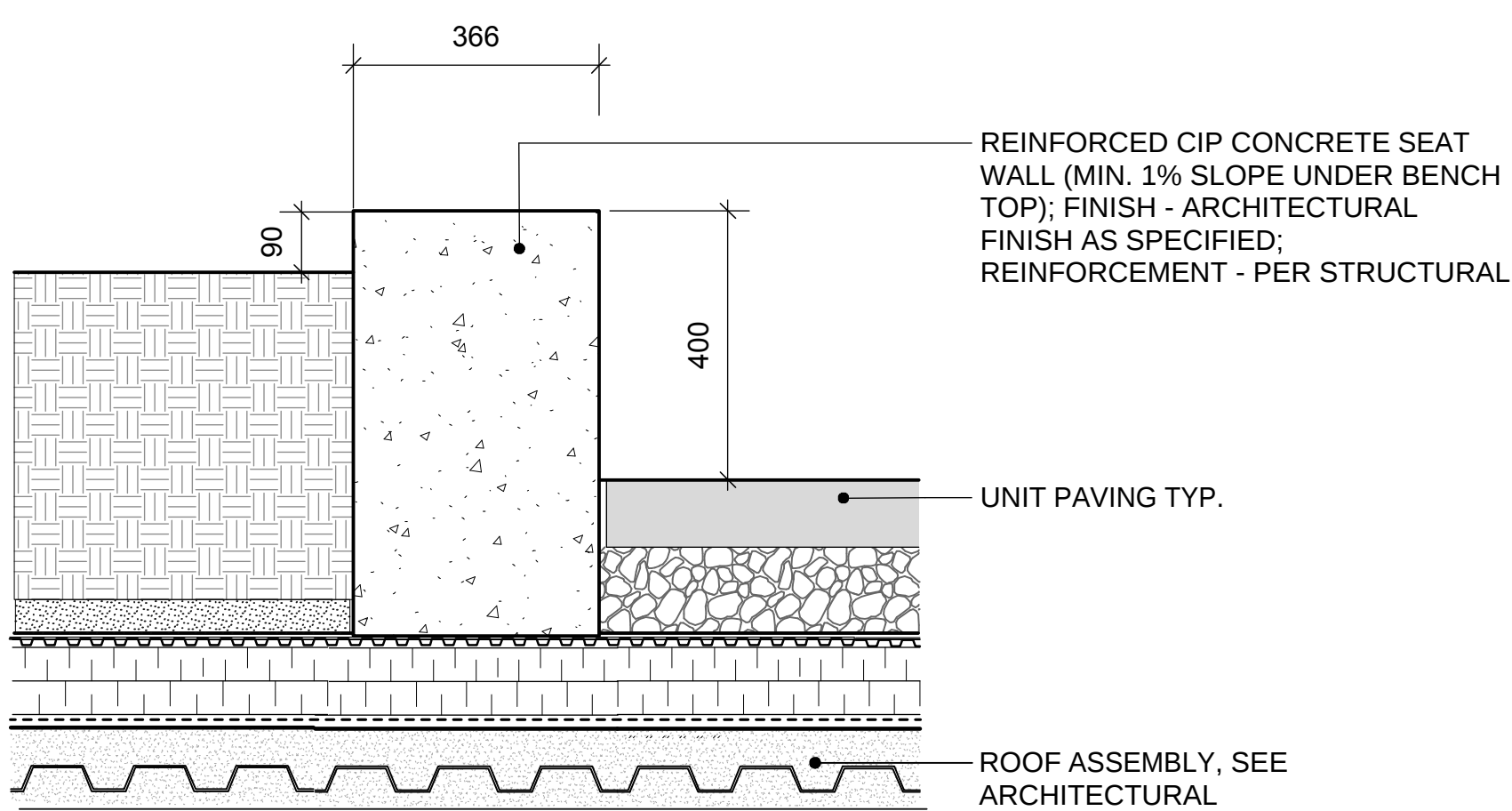
4A STAGE SECTION
Scale: 1:20



4B STAGE SECTION
Scale: 1:20



4C STAGE PLAN
Scale: 1:20



5 CONCRETE SEAT WALL LEVEL 3
Scale: 1:10

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REVISIONS

ALCUIN COLLEGE

60 Mahon Ave
North Vancouver, British Columbia

Scale: AS SHOWN

Drawn: MR

Reviewed: DS

Project No. 06-462

**DETAILS
LANDSCAPE**

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REVISIONS

ALCUIN COLLEGE

60 Mahon Ave
North Vancouver, British Columbia

Scale:	AS SHOWN
Drawn:	MR
Reviewed:	DS
Project No.	06-462

DETAILS
OFFSITE

Linear Planting Channel

Planting Channels

drawing title: **Planting Channels**

designed: [blank] drawn: [blank] H/D location: [blank]

scale: n.t.s. date: 1 Dec 2004 plot scale: [blank]

drawing no. **PL-17**

Structural Soil Channel for Boulevard Street Trees

drawing title: **Structural Soil Channel for Boulevard Street Trees**

designed: D. Hutch drawn: H. Sadler H/D location: [blank]

scale: n.t.s. date: 1 Dec 2004 plot scale: [blank]

revisions: 8 Nov 2010

drawing no. **PL-19c**

City of North Vancouver
Structural Soil Specification

1. Structural Soil Specification

1.1 General

Structural Soil is to be installed under hard surface paved areas where additional growing medium is required to provide adequate space for tree root development. Do not place Structural Soil in planting beds or planting pits.

1.2 Structural Soil Material Mix

1.2.1 Structural soil is a consistent even distribution of its components. The ratio of components may vary and require adjustment to ensure soil volume is adequate to fill all voids in the stone.

1.2.2 The following is a recommended base ratio of materials for structural soil:

- 4 cu metre of aggregate stone
- 1.5 cu metre of Growing Medium
- 2 kg Stabiliser
- water is required – the amount of water will vary according to moisture present in Growing Medium

1.2.3 The stone, growing medium and stabilizer product are to be combined into a homogeneous mixture.

1.3 Growing Medium

1.3.1 Table One

The growing medium within the structural soil mix to meet the following requirements:

Table One – Properties of Growing Medium for Structural Soil	
Texture: particle size classes by the Canadian System of Soil Classification	
Gavel: greater than 2 mm – less than 75 mm	0
Sand: greater than 0.05 mm – less than 2 mm	maximum 60%
Silt: greater than 0.002 mm – less than 0.05 mm	maximum 35%
Clay less than 0.002 mm	maximum 15%
Clay & Silt Combined	maximum 40%
Acidity (Ph)	6.0-7.0
Salinity: saturated extract conductivity shall not exceed	3.0 millimhos/cm at 25 degrees Celsius
Organic Content: percent of dry weight (%)	8-12%

City of North Vancouver
Structural Soil Specification

City of North Vancouver
Structural Soil Specification

City of North Vancouver
Structural Soil Specification

1.4 Aggregate

1.4.1 Clean stone of high angularity is required.

1.4.2 Stone dimension aspect ratio should approach 1:1:1; with a maximum of 2:1:1 length:width:depth.

1.4.3 Single size stone, 60mm to 75mm clear sieve designation, blasted quarry rock.

1.4.4 Aggregate to be free of foreign elements or material.

1.4.5 Aggregate quality: material shall be sound hard, durable, free from soft, thin, elongated or laminated particles, organic material, clay lumps, or other substances that would act in a deleterious manner for use intended.

1.5 Soil Stabilizer

1.5.1 A non-toxic organic binder, for example *The Natural Solution* as available from Sport Turf Inc. Tel: (604) 850-7857.

1.6 Filter Fabric

1.6.1 After adequate compaction of the structural soil is confirmed, non-woven filter fabric is to be installed as a separation layer directly above the compacted structural soil mixture.

1.6.2 Filter fabric to conform to the following ASTM designations:

Grab Tensile Strength	ASTM-D-4632	400kN
Tensile Elongation	ASTM-D-4632	50%
Mullen Burst	ASTM-D-3786	1270 kPa
Flow Rate	ASTM-D-4491	6300l/min/sq.m

1.7 Sub Drains

1.7.1 Sub drains connected to the municipal drainage system are to be provided prior to installation of the structural soil mixture as indicated on servicing landscape plans.

1.8 Irrigation

1.8.1 Install an automatic irrigation system in co-ordination with installation of the structural soils as indicated on servicing or landscape plans.

1.9 Sub Grade

1.9.1 Structural soil areas to be excavated to Master Municipal Specifications Section 0223, Trenching, Excavation and Compaction, allowing for design depth and width of structural soil mix.

1.9.2 The sub grade is to be graded to provide for trench depths as required. Sub grade of areas designated as structural soil are to be prepared to ninety-five percent (95%) Modified Proctor Density and shall be free of stones, debris, root branches, toxic materials, building materials and other deleterious materials.

1.9.3 Sub grade is to slope to subsurface drain lines where provided.

1.10 Mixing

1.10.1 Mixing is to be performed on a clean, flat, hard, level surface using appropriate soil mixing equipment.

1.10.2 Over handling can result in separation of the growing medium from the stone.

1.10.3 Mix ingredients to the proportions indicated in the table, section 1.2.

1.11 Placement

1.11.1 Structural soil should be moist, but not saturated when placed.

1.11.2 Structural soil is to be compacted as required to achieve the equivalent of 95% Modified Proctor Density.

1.11.3 After approval of structural soil mixture compaction, install filter fabric. A 600mm overlap of all fabric seams and beyond edge of structural soil to be provided.

1.12 Finish Treatment

1.12.1 Granular base and paving surface to be placed on filter fabric (on structural soil). Compaction of the structural soil base is to be consistent with surrounding granular base materials.

1.12.2 Install finish treatment to the requirements of the contract. Refer to construction documents for relevant sections.