

NOKIA Ottawa Campus

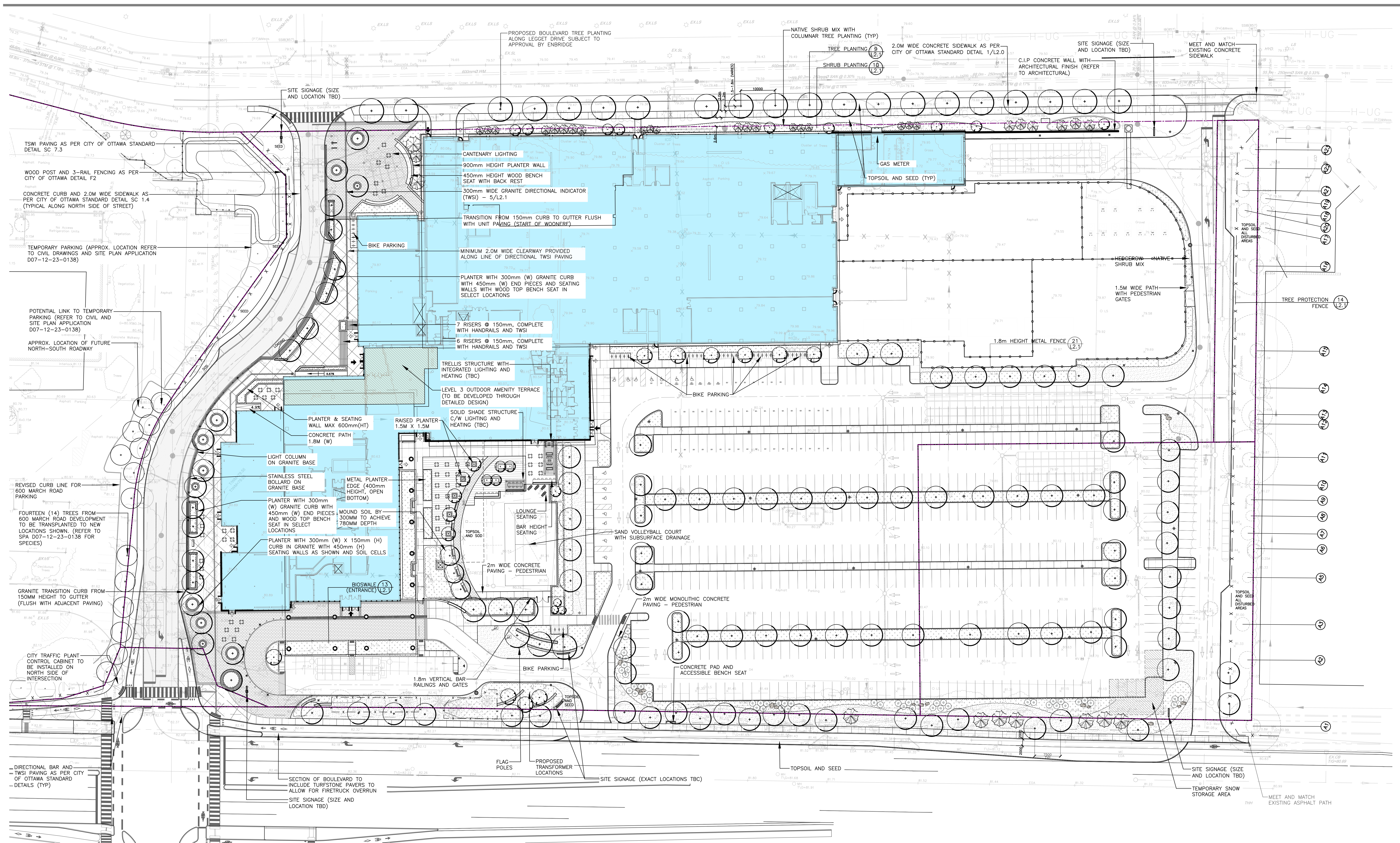
570 March Rd, Kanata Ottawa ON K2K 2T6
 BLOCK 6 AND PART OF BLOCK 1
 REGISTERED PLAN 4M-642
 AND PART OF LOTS 8 AND 9
 CONCESSION 4

Gensler

150 King Street W, Suite 1400, Toronto, ON M5H 1K9, Canada

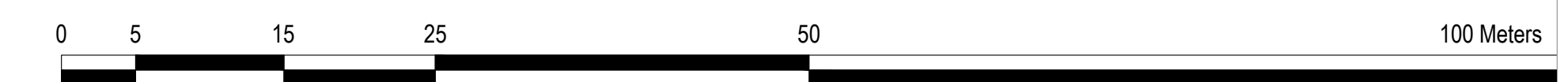
Designer: Anna O'Sullivan, Vohwinkel Ltd.
 Planning Consultant: G. Winters@novatech-eng.com
 Civil Engineering: F. Havelle@novatech-eng.com
 Architectural Site Planning: Barry, hntb@gensler.com
 Electrical Engineering: Anna O'Sullivan@novatech-eng.com
 Mechanical Engineering: Barry, hntb@gensler.com
 Geotechnical Engineering: Barry, hntb@gensler.com
 Landscape Planning: Barry, hntb@gensler.com
 Civil: Barry, hntb@gensler.com
 Structural Engineering: Barry, hntb@gensler.com
 ASCE: Barry, hntb@gensler.com
 Nuisance Report: Barry, hntb@gensler.com
 Consultant: Barry, hntb@gensler.com
 Transportation Planners: Barry, hntb@gensler.com
 Survey: Barry, hntb@gensler.com

Date	Description
11-12-23	ISSUED FOR REVIEW / CO-ORDINATION
05-09-24	ISSUED FOR SPA
01-11-24	RE-ISSUED FOR SPA
31-01-25	RE-ISSUED FOR SPA
24-07-25	ISSUED FOR INFORMATION PO2: PARKING
05-08-25	RE-ISSUED FOR SPA
26-09-29	RE-ISSUED FOR SPA

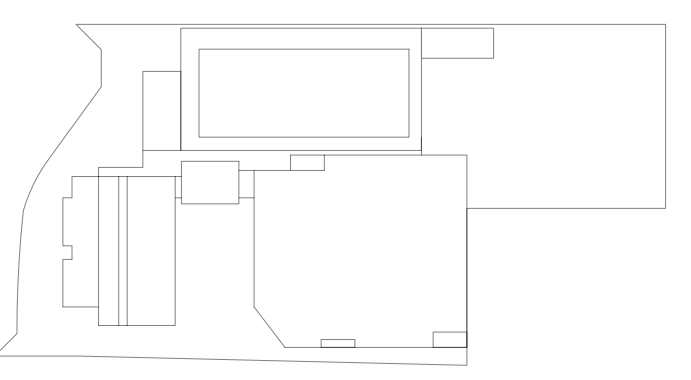


LEGEND:

	PROPOSED TREE (2.7)		BENCH - TYPE 1 FREE STANDING BENCH (WITH ARMS AND BACK REST) (2.7)		(REFER TO ELECTRICAL FOR LIGHTING FIXTURES) ROADWAY / PEDESTRIAN LIGHTING (2.7)
	EXISTING TREE TO BE RETAINED (REFER TO TCR FOR TREE INFORMATION AND TREES TO BE REMOVED) (2.7)		BENCH - TYPE 2 FREE STANDING BENCH (WITH ARMS AND BACK REST) (2.7)		TALL LIGHT BOLLARD (2.7)
	TREE PROTECTION FENCING (1.4)		BENCH - TYPE 3 WALL MOUNTED BENCH SEAT - STRAIGHT (2.7)		SHORT LIGHT BOLLARD (2.7)
	CONCRETE PAVING (2.7)		BENCH - TYPE 4 WALL MOUNTED BENCH SEAT - CURVED (2.7)		WALL SCONCE (2.7)
	UNIT PAVING - TYPE 1 (TBC) (2.7)		BOLLARD (2.7)		PROPERTY BOUNDARY (2.7)
	UNIT PAVING - TYPE 2 (TBC) (2.7)		STACKED STONE SEATING WALL (2.7)		LIMIT OF PARKING GARAGE (2.7)
	UNIT PAVING - TYPE 3 (TBC) (2.7)		MONOLITHIC STONE SEATING WALL (2.7)		IRRIGATION LEGEND PROVIDE DRIP LINE IRRIGATION TO PLANTING AREAS (2.7)
	UNIT PAVING - TYPE 4 (TBC) (2.7)		PRE-CAST CONCRETE SEATING WALL (2.7)		PROVIDE SPRAY IRRIGATION TO LAWN AREAS (WHERE INDICATED ON THE DRAWINGS) (2.7)
	GRANITE PAVING STRIP (GUTTER) (2.7)		LANDSCAPE CURB (1.1)		GENERAL NOTES: 1. IRRIGATION MUST NOT EXTEND BEYOND PROPERTY BOUNDARIES (2.7)
	DIRECTIONAL PAVES (TWSI) (1.2)		WASTE AND RECYCLING RECEPTACLE (2.7)		
	TACTILE WARNING STRIP INDICATOR (TWSI) (1.2)				
	PROPOSED SHRUB PLANTING (INCLUDE DRIP LINE IRRIGATION TO ALL SHRUB BEDS) (2.7)				
	PROPOSED SEED/SOD (2.7)				



Landscape Architecture
 Urban Design
 Site Planning
 Recreation and Park Planning
 Project Management
 319 McRae Avenue, Suite 502, Ottawa, Ontario, K1Z 0B9
 Tel: (613) 729-4536
 Key Plan



Seal / Signature

NOT FOR CONSTRUCTION

Project Name: Nokia Ottawa Campus

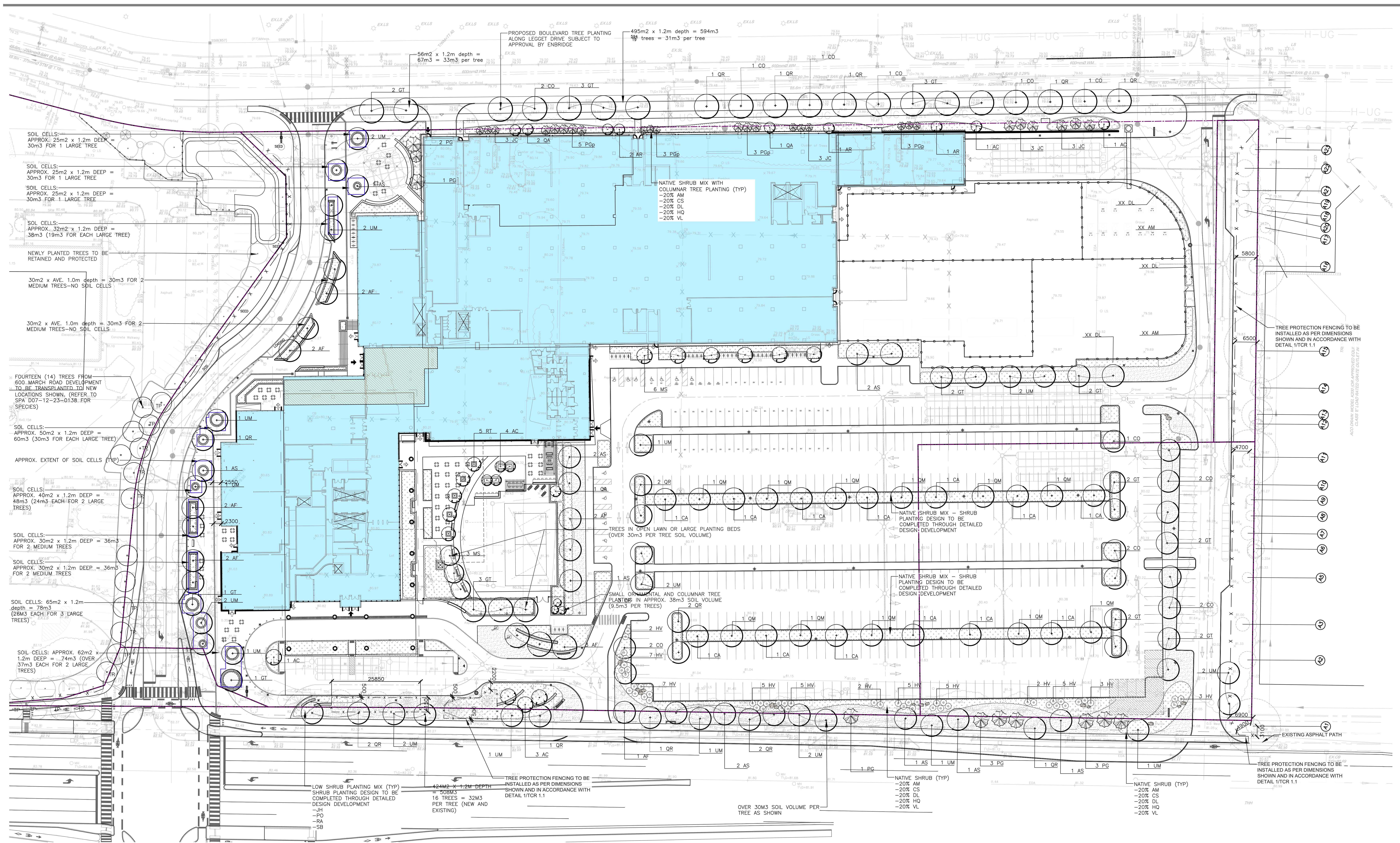
Project Number: 027.7946.000 (CSW PROJ. NO. 2113-02)

Description: LANDSCAPE PLAN

Scale: 1:400

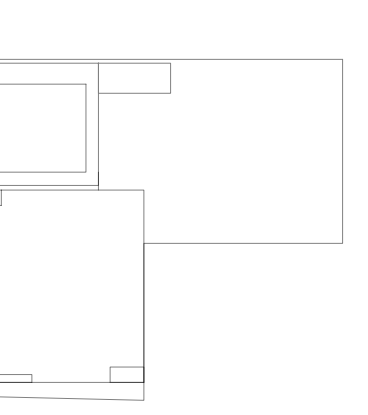
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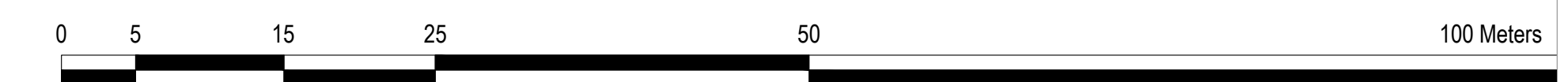
Project Name
Nokia Ottawa Campus

Project Number
027.7946.000 (CSW PROJ. NO. 213-02)

Description
**PLANTING PLAN
 TREE CANOPY AND SOIL VOLUMES**

Scale **1: 400**

L 1.1



TOTAL SITE AREA = 53,380 SQ.M.
 PROJECTED 40 YEAR TREE CANOPY COVER = 25,134 SQ.M.
 SITE CANOPY COVER = 47%

TREE SIZE	40 YR CANOPY DIA	AREA COVER M2	QUANTITY	TOTAL AREA
SMALL DEC	5.5M DIA	23.76	27	641
MEDIUM DEC	10M DIA	78.54	17	1,335
LARGE DEC	15M DIA	176.70	116	20,800
CONIFER	5M DIA	19.63	36	766
COLUMNAR	3.5M DIA	9.62	9	87
EX. TREE CANOPY COVER (APPROX.)			1455	
				25,134

LEGEND:

- PROPOSED LARGE DECIDUOUS TREE
- PROPOSED SMALL / COLUMNAR DECIDUOUS TREE
- PROPOSED CONIFEROUS TREE
- APPROXIMATE EXTENT OF SOIL CELLS
- PROPOSED SHRUB PLANTING (INCLUDE DRIP LINE IRRIGATION)
- PROPOSED SEED/SOD

SYM.	BOTANICAL NAME	COMMON NAME	QTY.	SIZE	REMARKS	NATIVE TREE	CITY OWNED QTY.
AF	FRAXINUS AMMOCYPRUS	AUTUMN BLAZE MAPLE	14	70mm CAL.	B&B / W.B.	HYBRID OF NATIVE	4
AR	ACER RUBRUM 'F5-NW7'	ARMSTRONG GOLD MAPLE	04	70mm CAL.	B&B / W.B.	NATIVE CULTIVAR	0
AS	ACER SACCHARINUM	SUGAR MAPLE	12	70mm CAL.	B&B / W.B.	NATIVE	7
CA	CARYA OVATA	SHAGBARK HICKORY	13	70mm CAL.	B&B / W.B.	NATIVE	0
CO	CELTIS OCCIDENTALIS	AMERICAN HICKORY	16	70mm CAL.	B&B / W.B.	NATIVE	0
GT	GLIRICIA TRICANTIS 'SANDMASTER'	SANDMASTER HONEYLOCUST	25	70mm CAL.	B&B / W.B.	NON-NATIVE	8
GM	QUERCUS ALB 'ROBE & TOMCOWE'	CRISP LEAF OAK	04	70mm CAL.	B&B / W.B.	NATIVE	0
GM	QUERCUS MACROCARPA	BUR OAK	12	70mm CAL.	B&B / W.B.	NATIVE	0
GM	QUERCUS RUBRA	RED OAK	17	70mm CAL.	B&B / W.B.	NATIVE	14
UM	ULMUS MONTANUS	ACCOLADE ELM	23	70mm CAL.	B&B / W.B.	NATIVE CULTIVAR	10
AC	AMELANCHIER CANADENSIS	SHADBLOW SERVICEBERRY	11	50mm CAL.	B&B / W.B.	NATIVE	0
CP	CORNUS ALTERNIFOLIA	PANICOLA DOGWOOD	03	100mm HT.	B&B / W.B.	NATIVE	0
MS	MALUS SUTZAM	SUGAR TIME CRABAPPLE	09	50mm CAL.	B&B / W.B.	NON-NATIVE	0
ST	RHUS TYPHINAE TIGER EYES	SPICE'S HOOP-SUNG TIGER EYES	03	50mm CAL.	B&B / W.B.	NON-NATIVE	0
CC	CORNUS STYRACIA	DOGWOOD	03	100mm HT.	B&B / W.B.	NATIVE	0
AC	AMPELOPS VITIFOLIA 'EMERALD SENNA'	EASTERN RED CEDAR	12	400mm HT.	B&B / W.B.	NATIVE CULTIVAR	0
PE	PRINUS GLAUBA	WHITE SPRUCE	10	250mm HT.	B&B / W.B.	NATIVE	0
PB	PRINUS GLAUBA 'PENICULA'	WEeping ALBERTA SPRUCE	14	250mm HT.	B&B / W.B.	NATIVE CULTIVAR	0

SHRUBS: APPROX. 4330 SQ.M. (QUANTITIES TO BE DETERMINED THROUGH DETAILED DESIGN DEVELOPMENT)

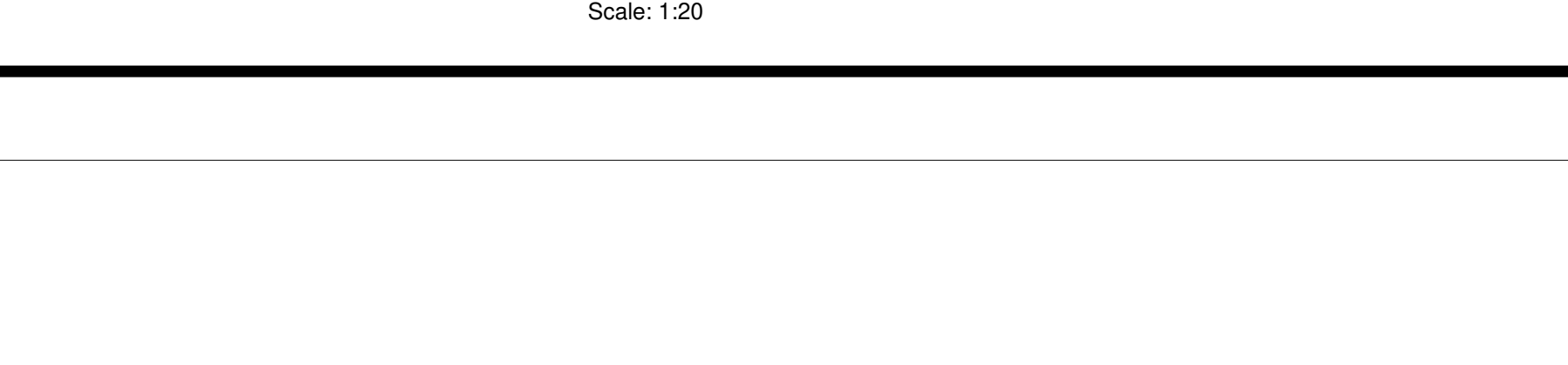
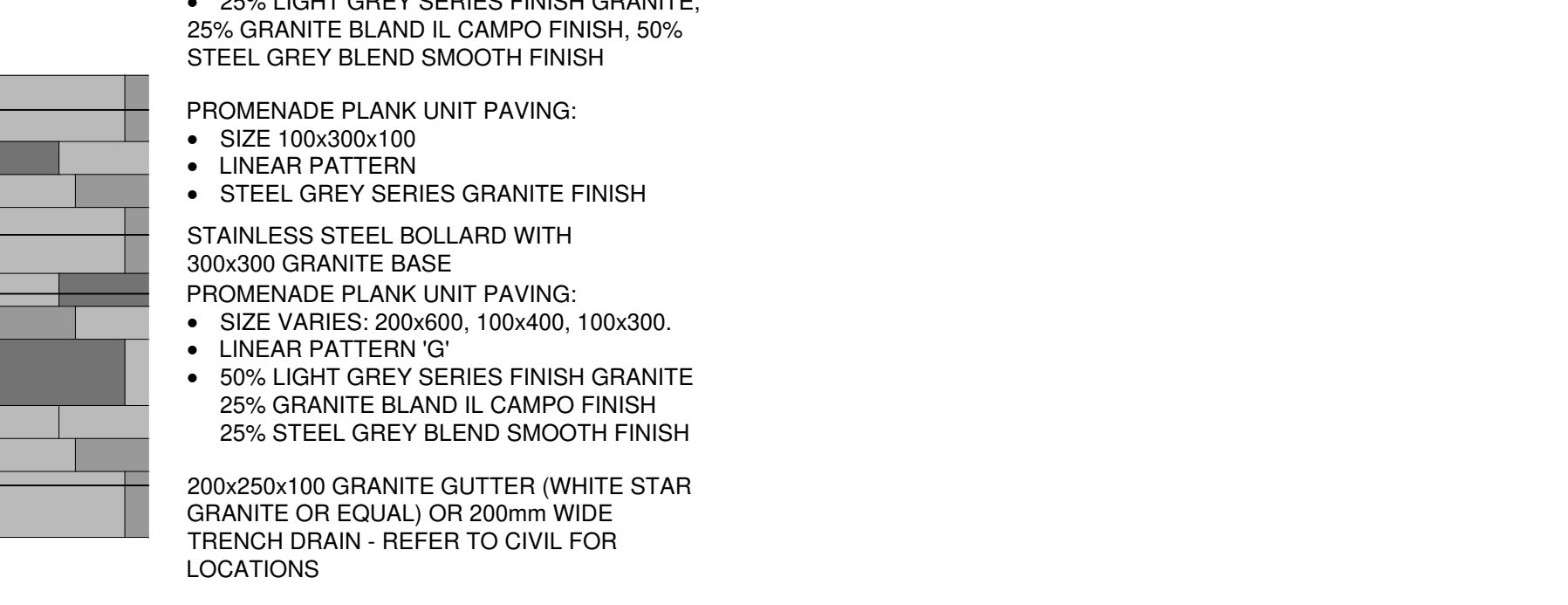
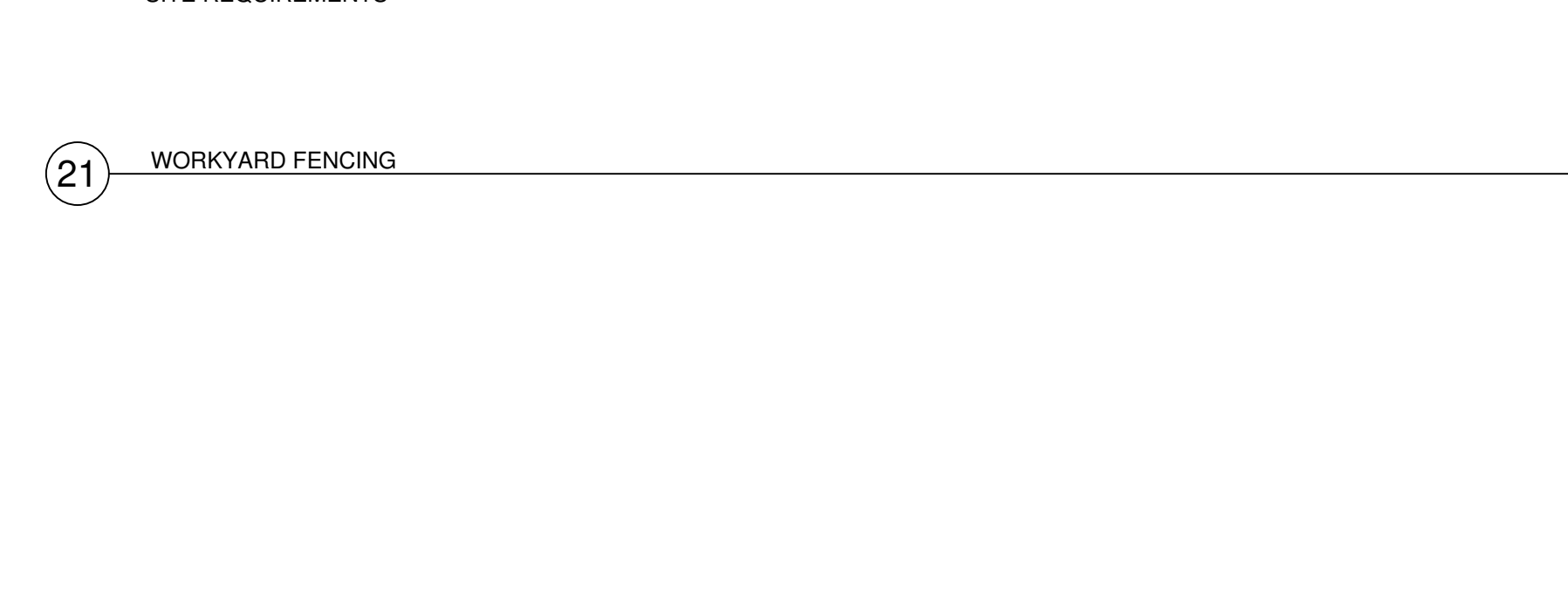
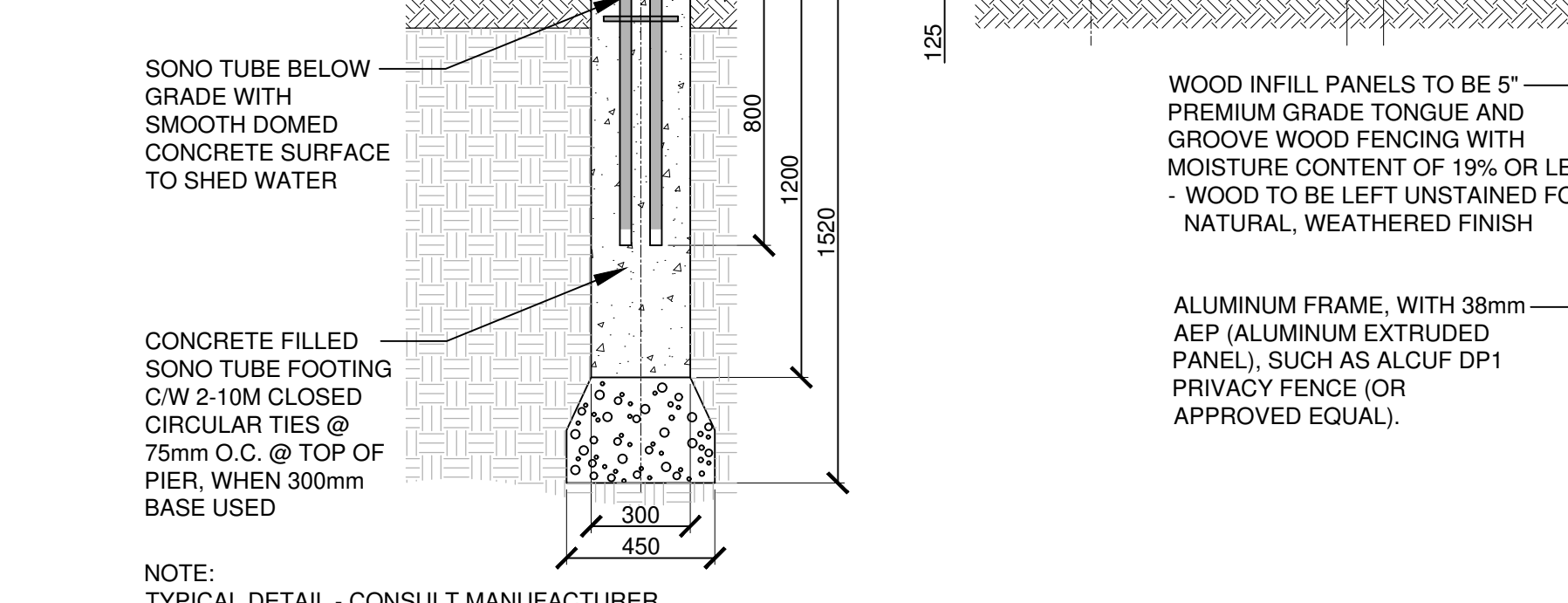
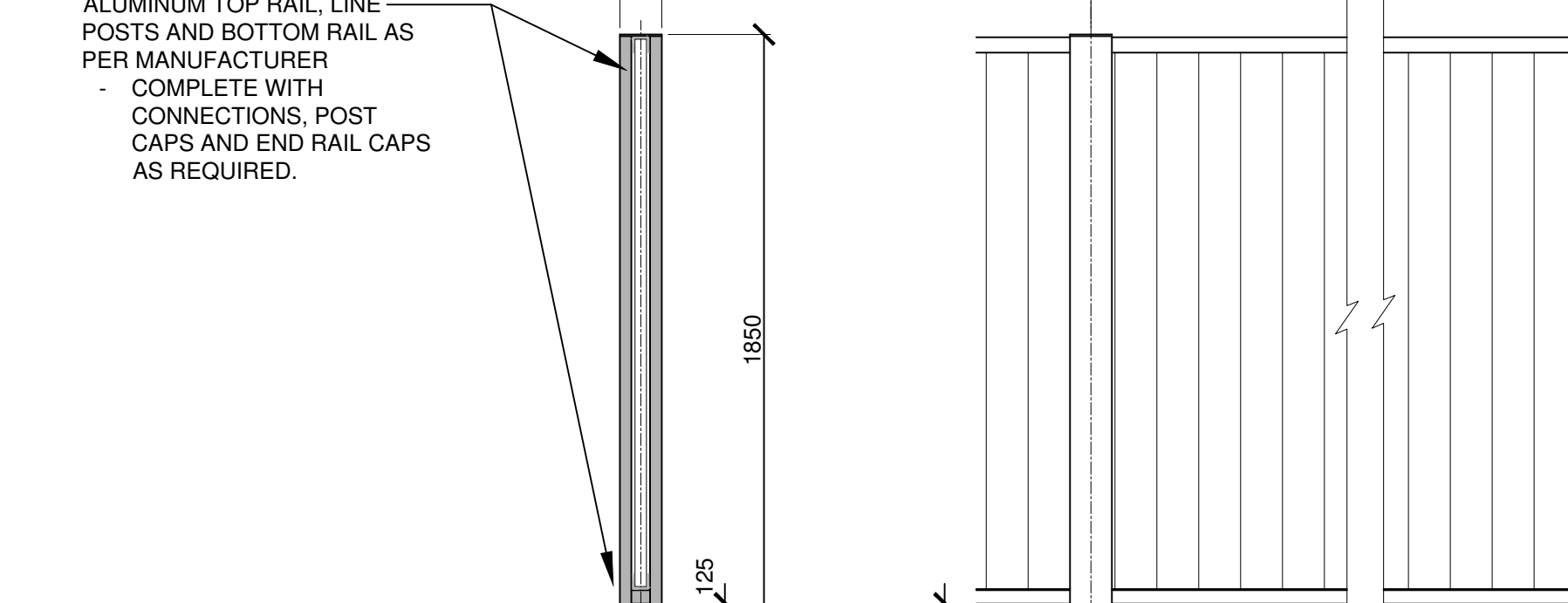
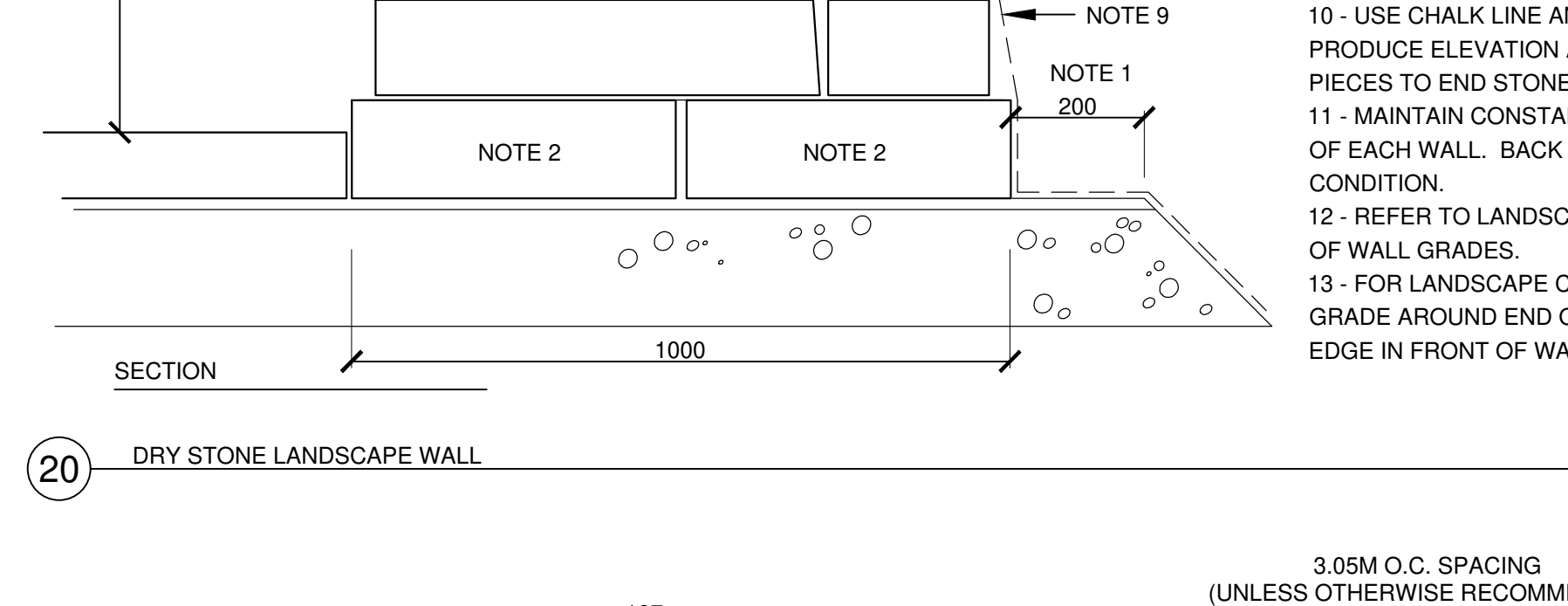
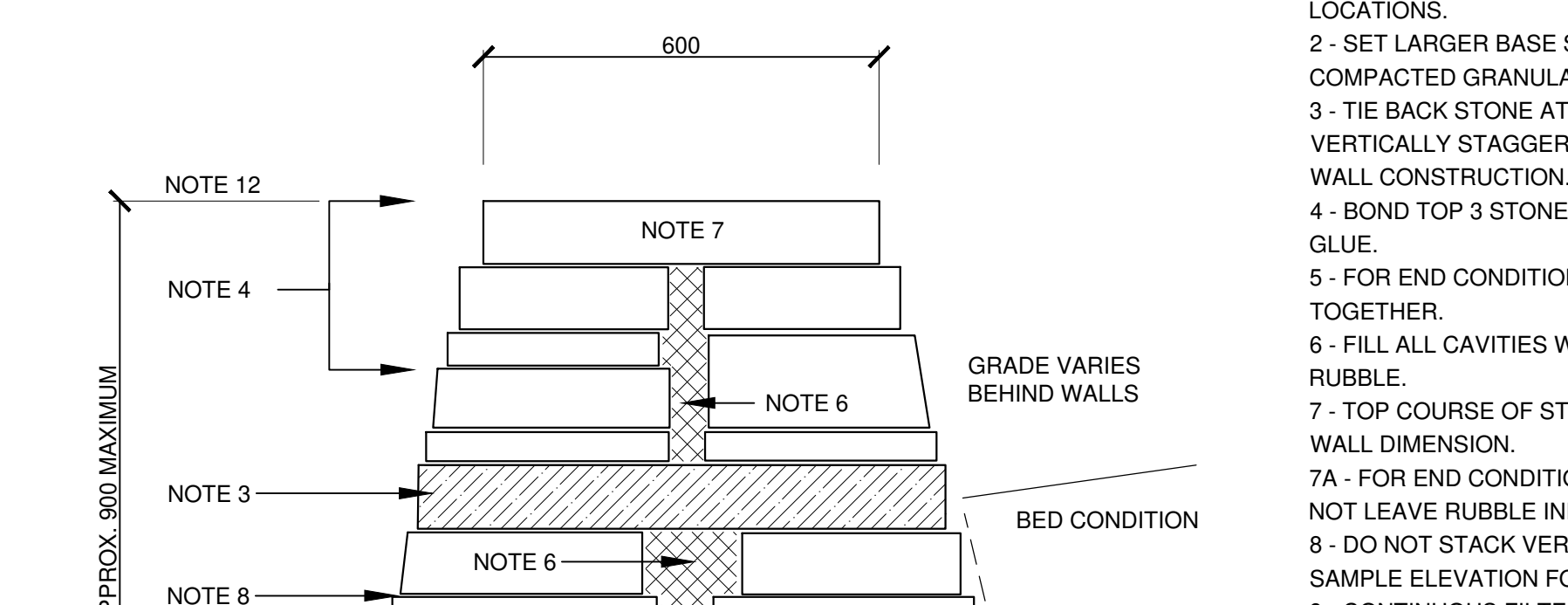
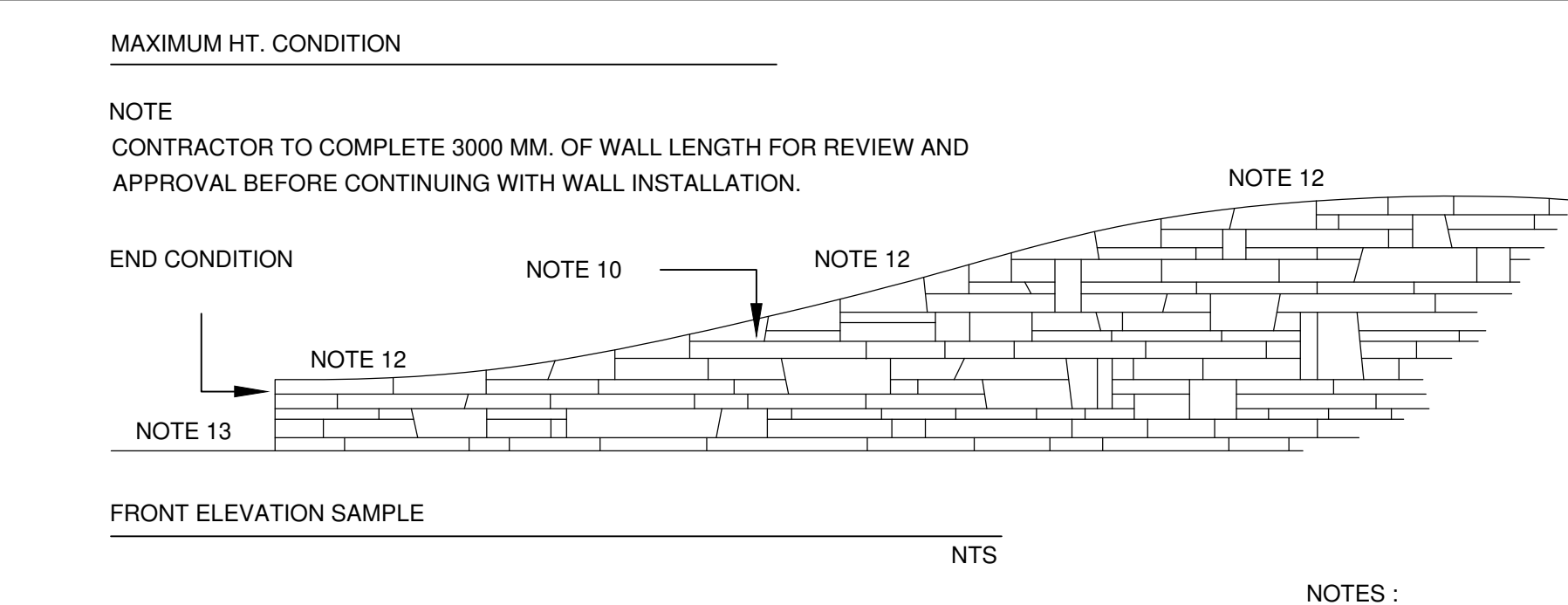
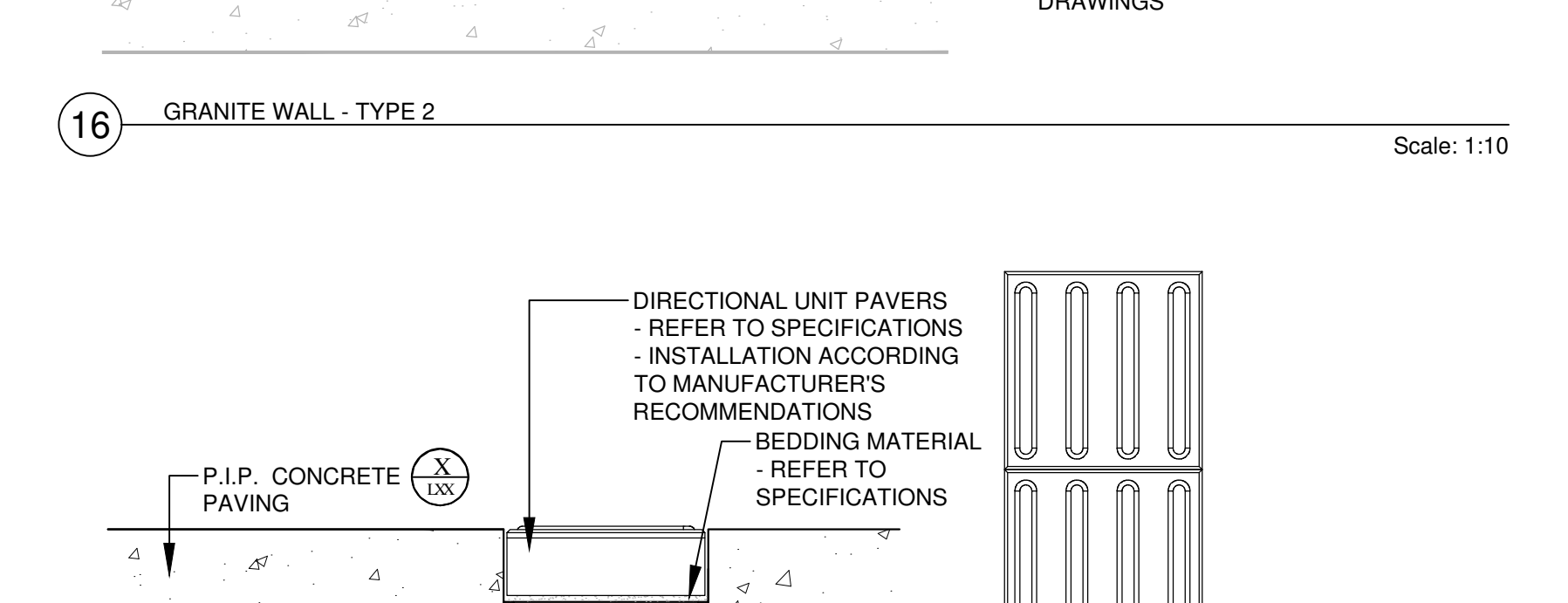
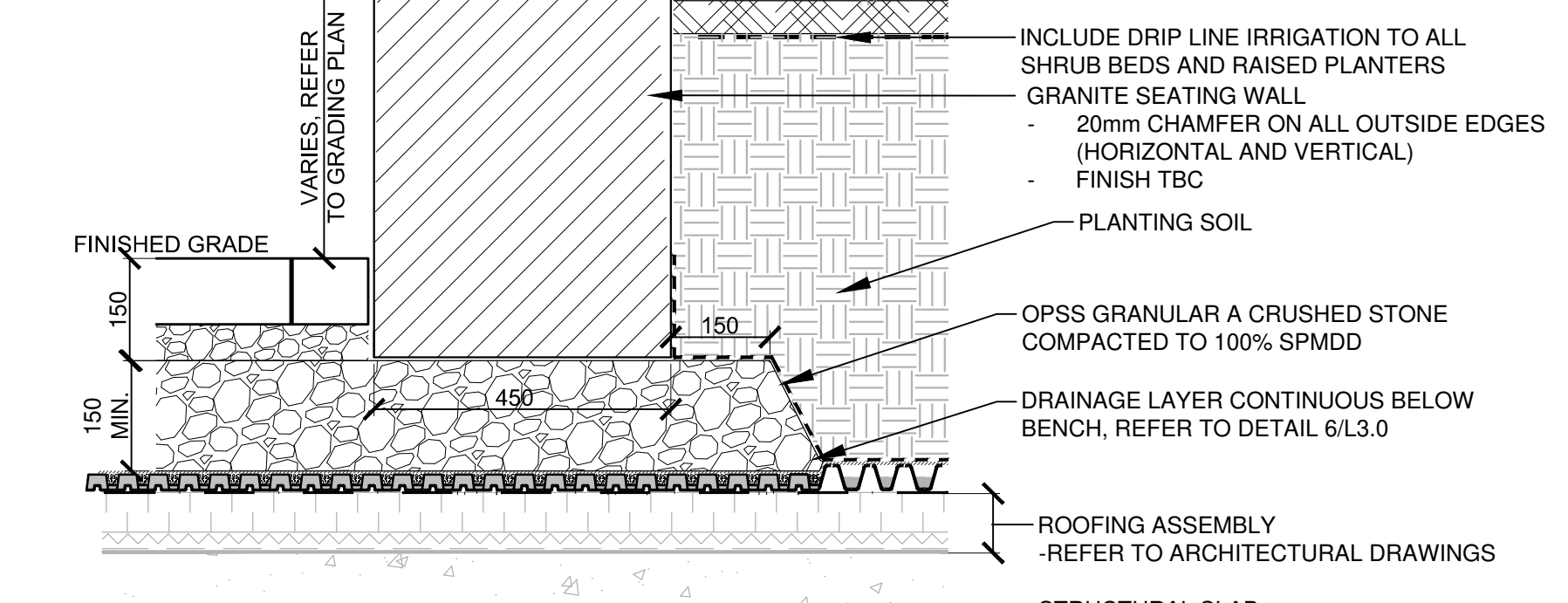
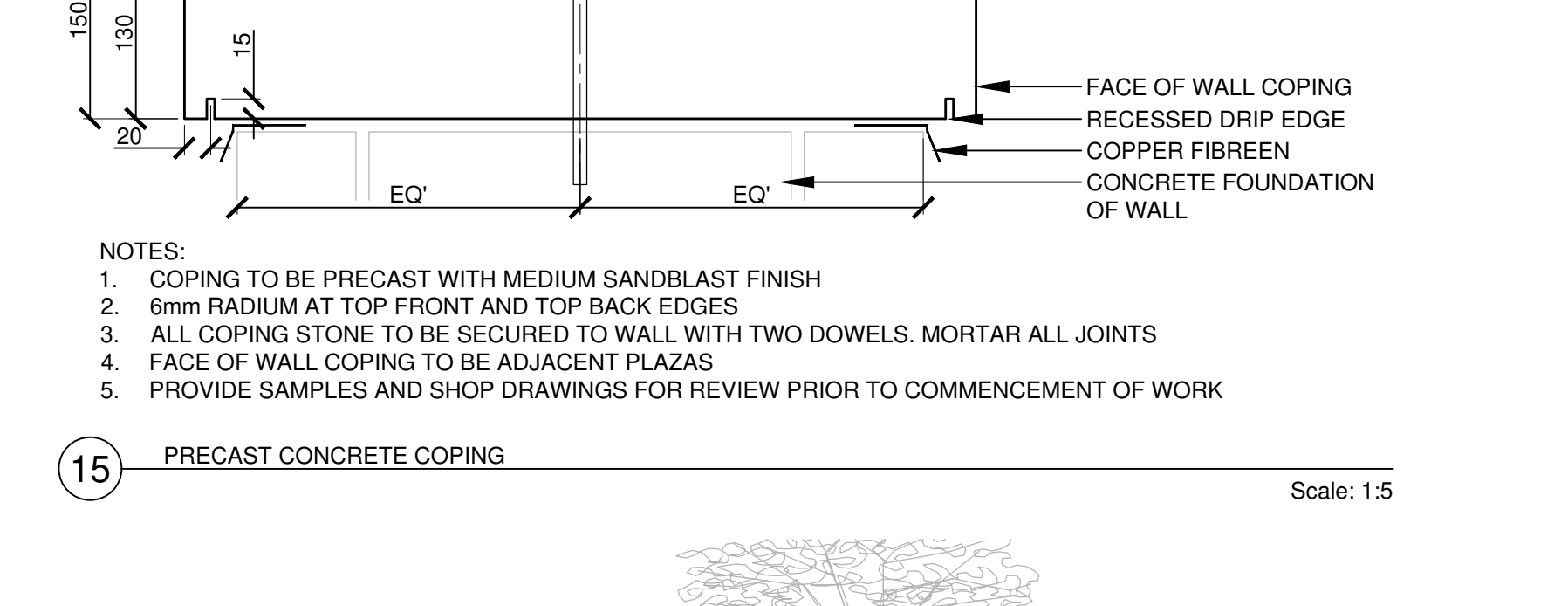
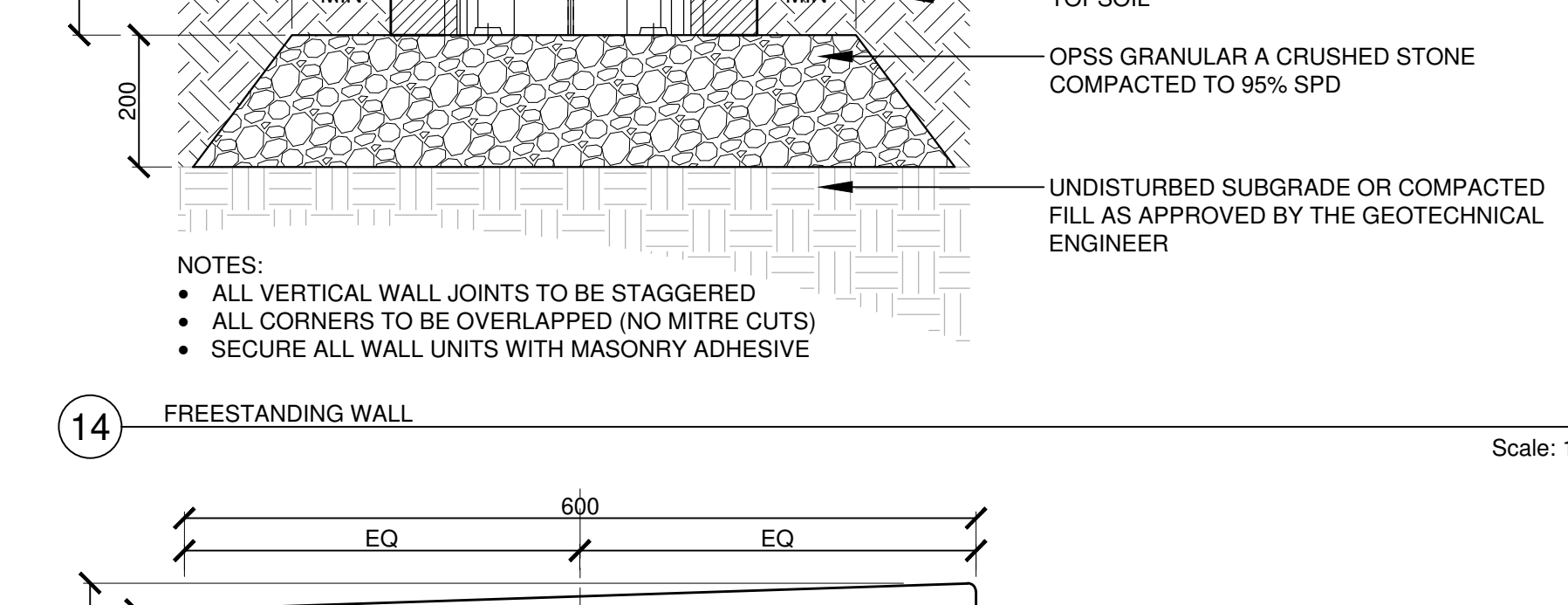
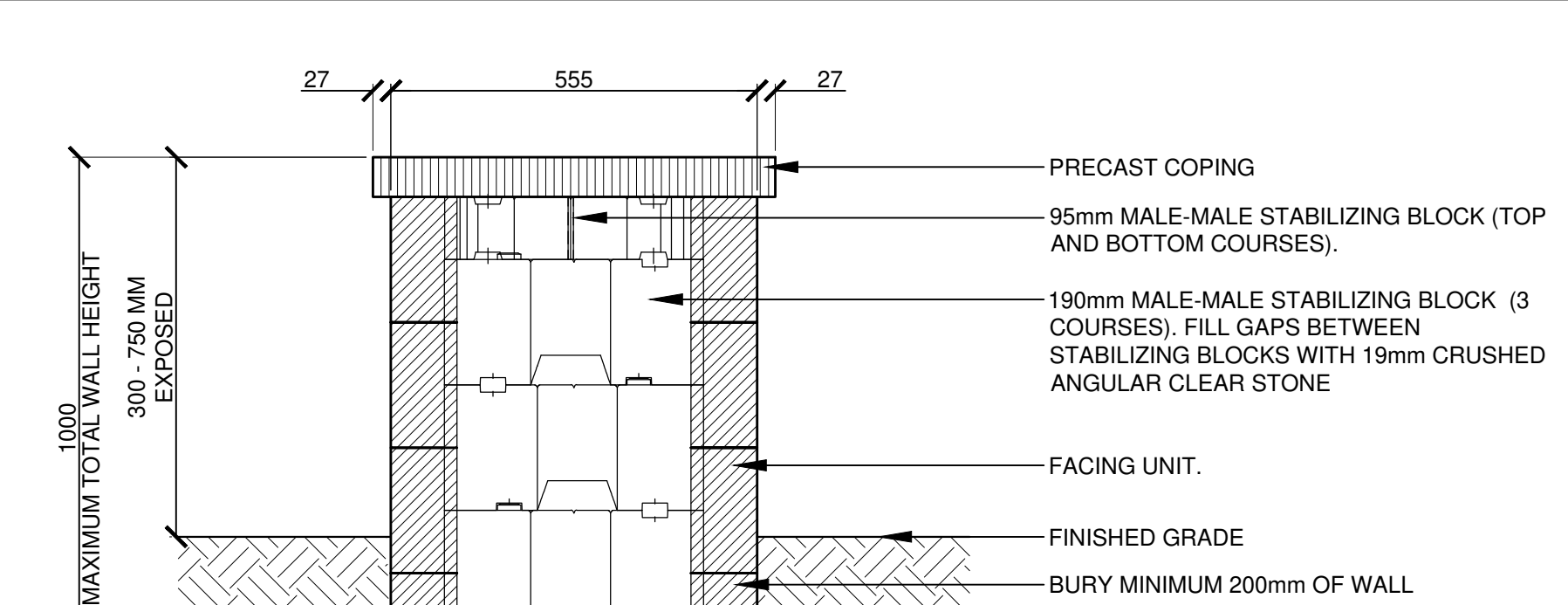
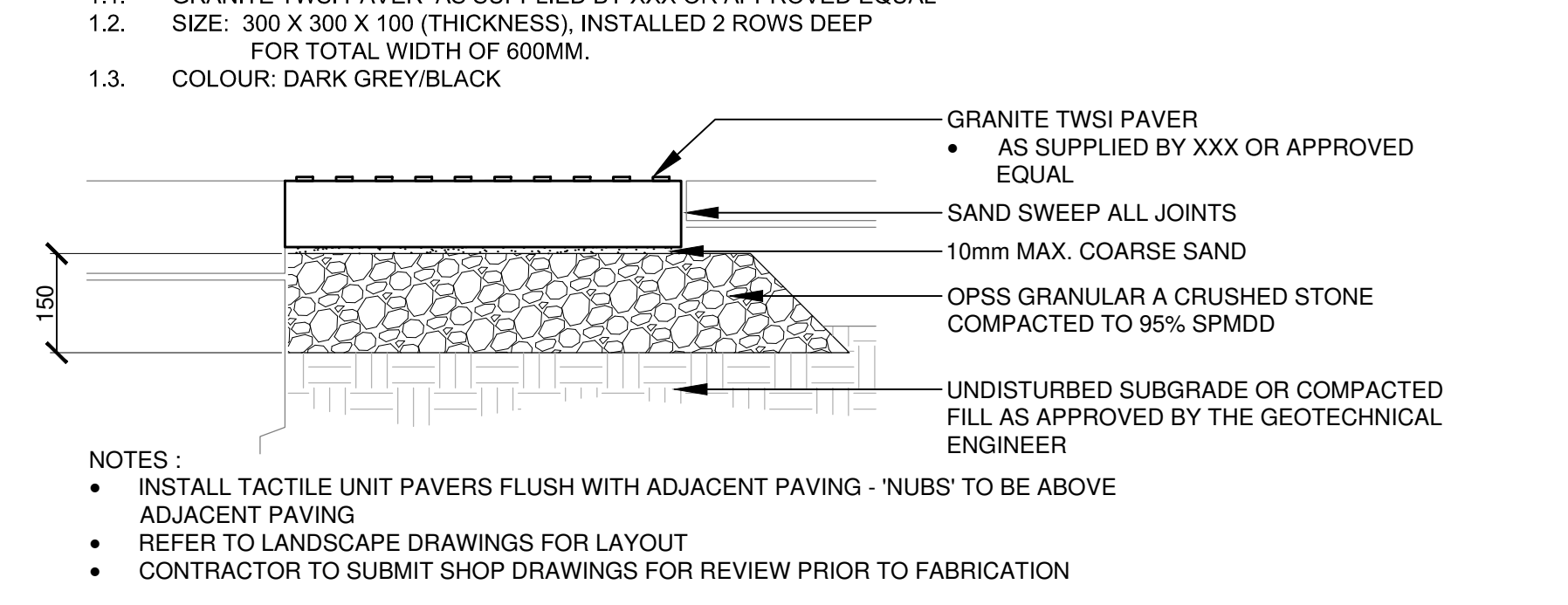
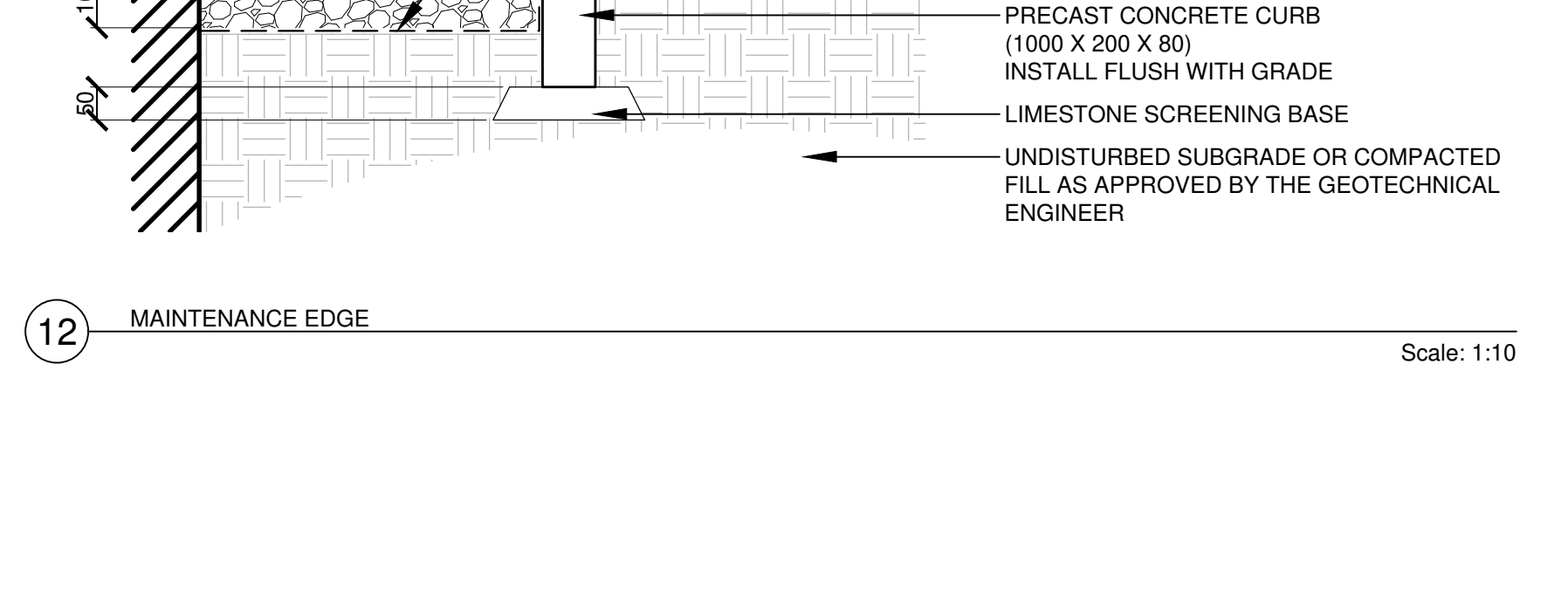
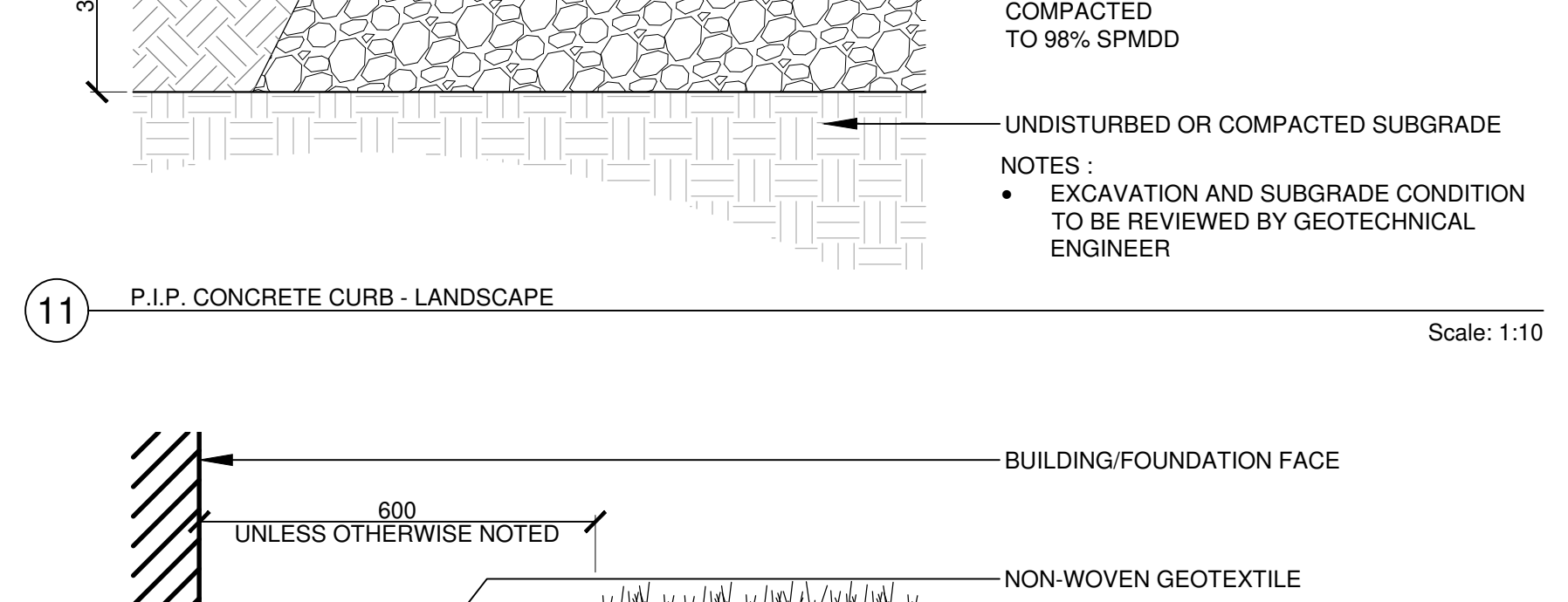
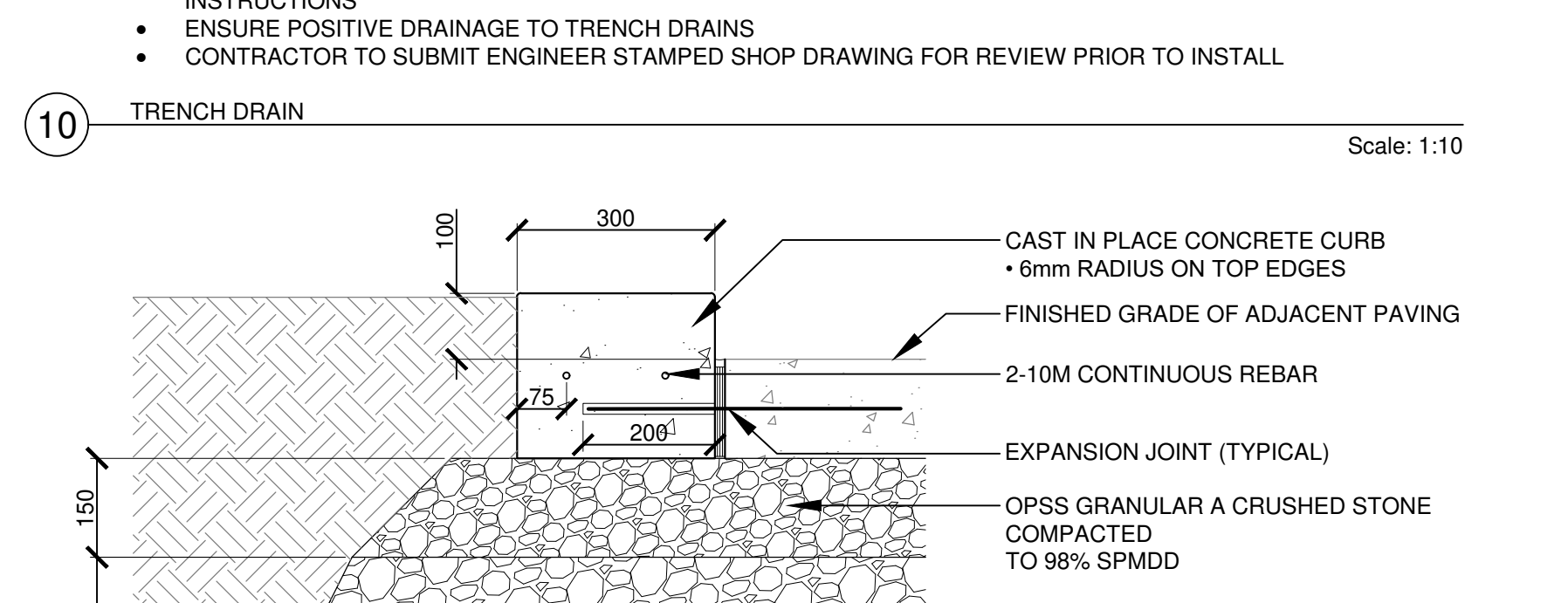
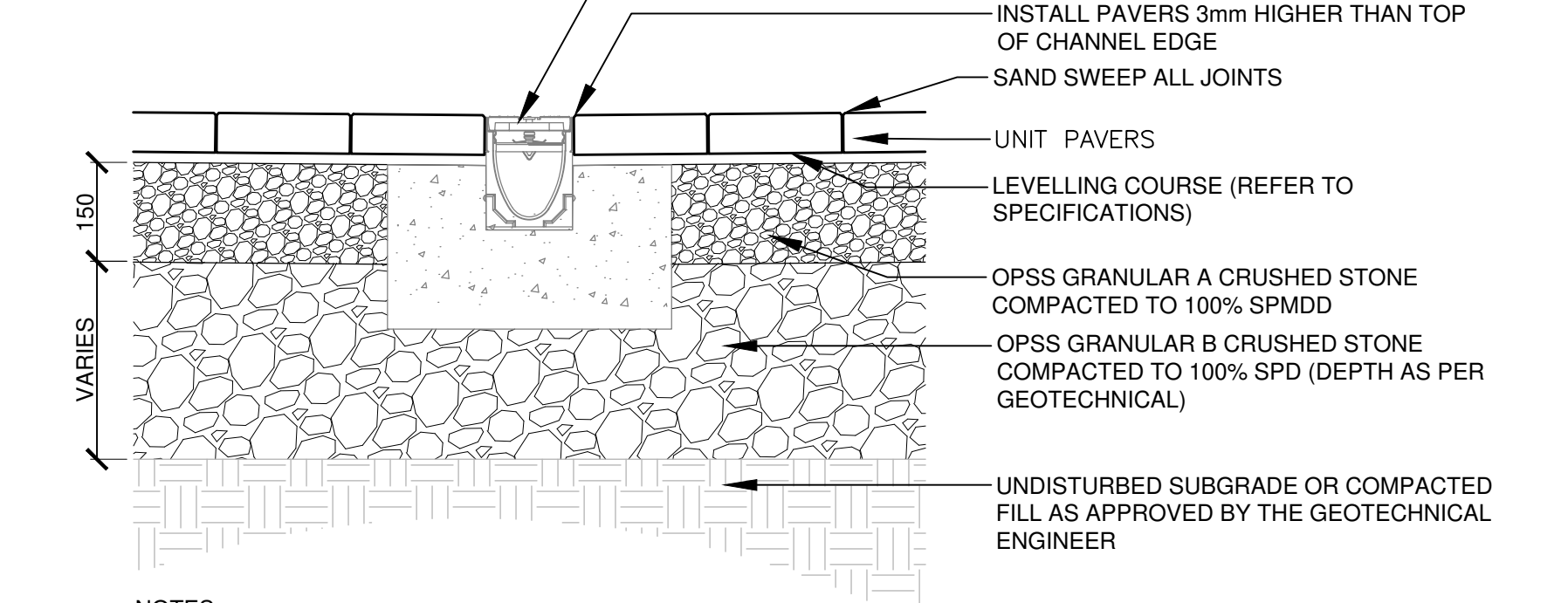
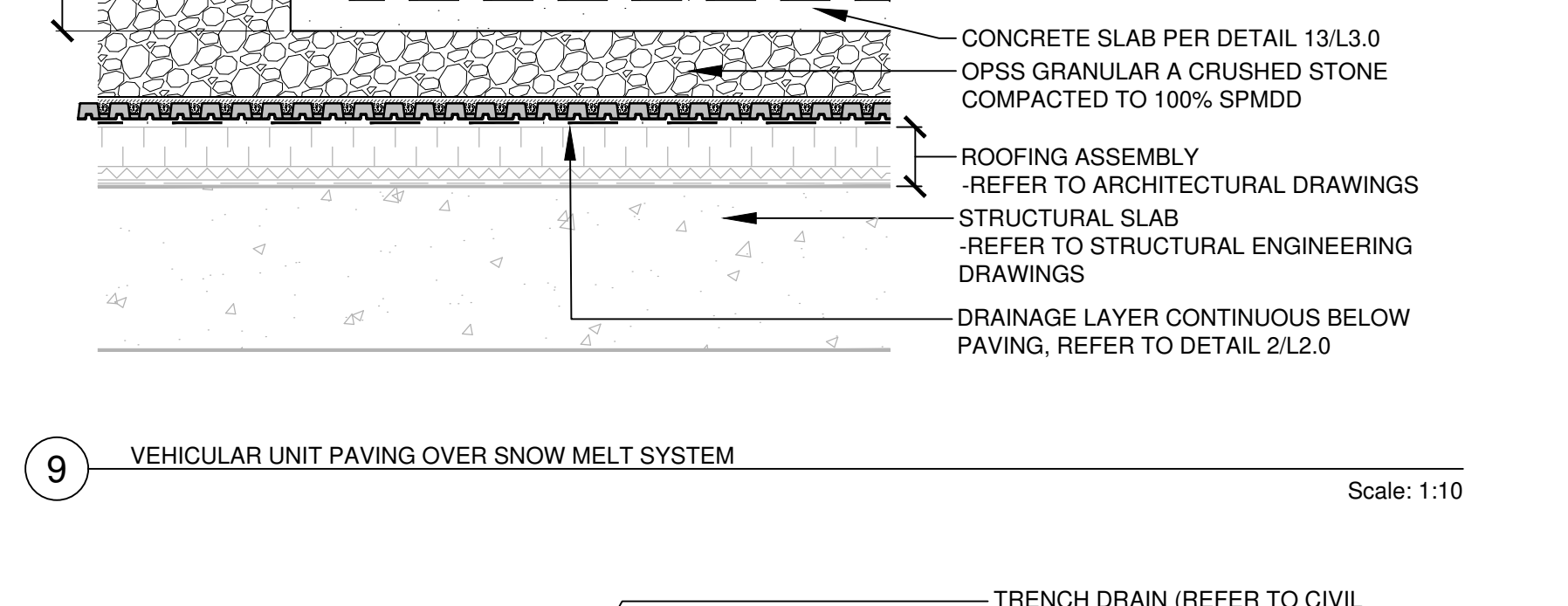
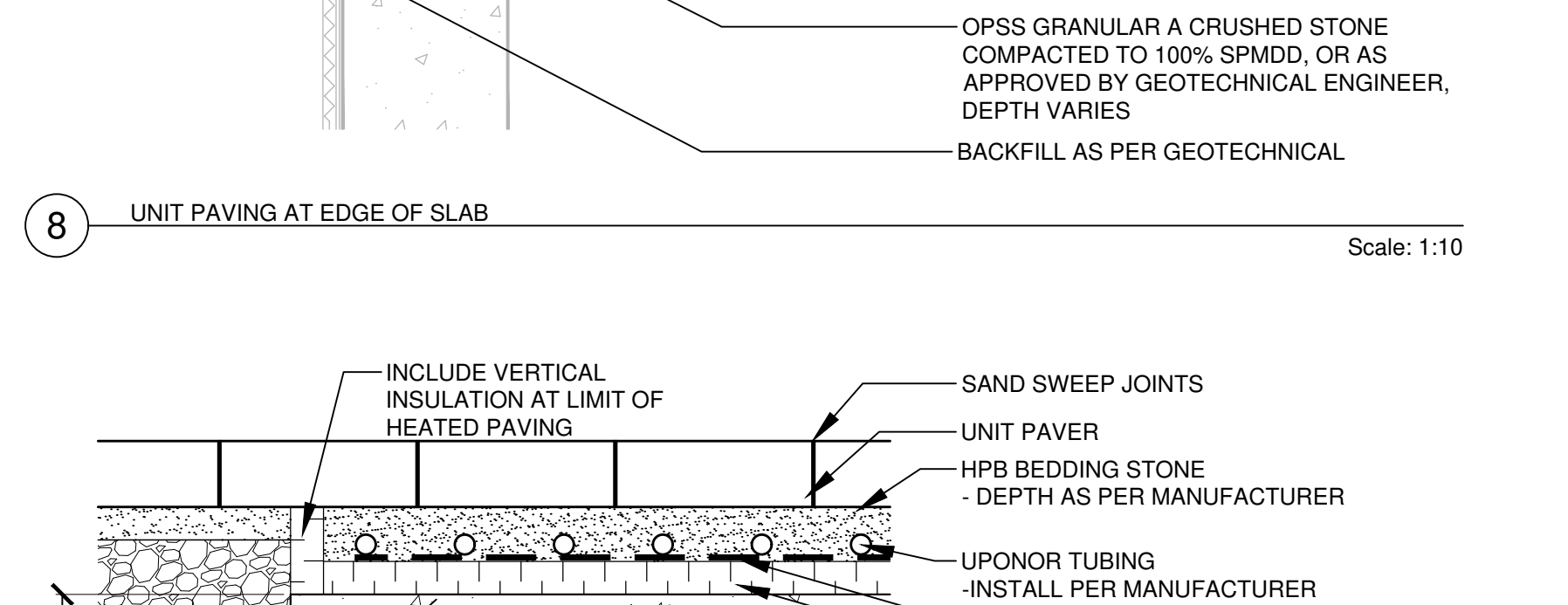
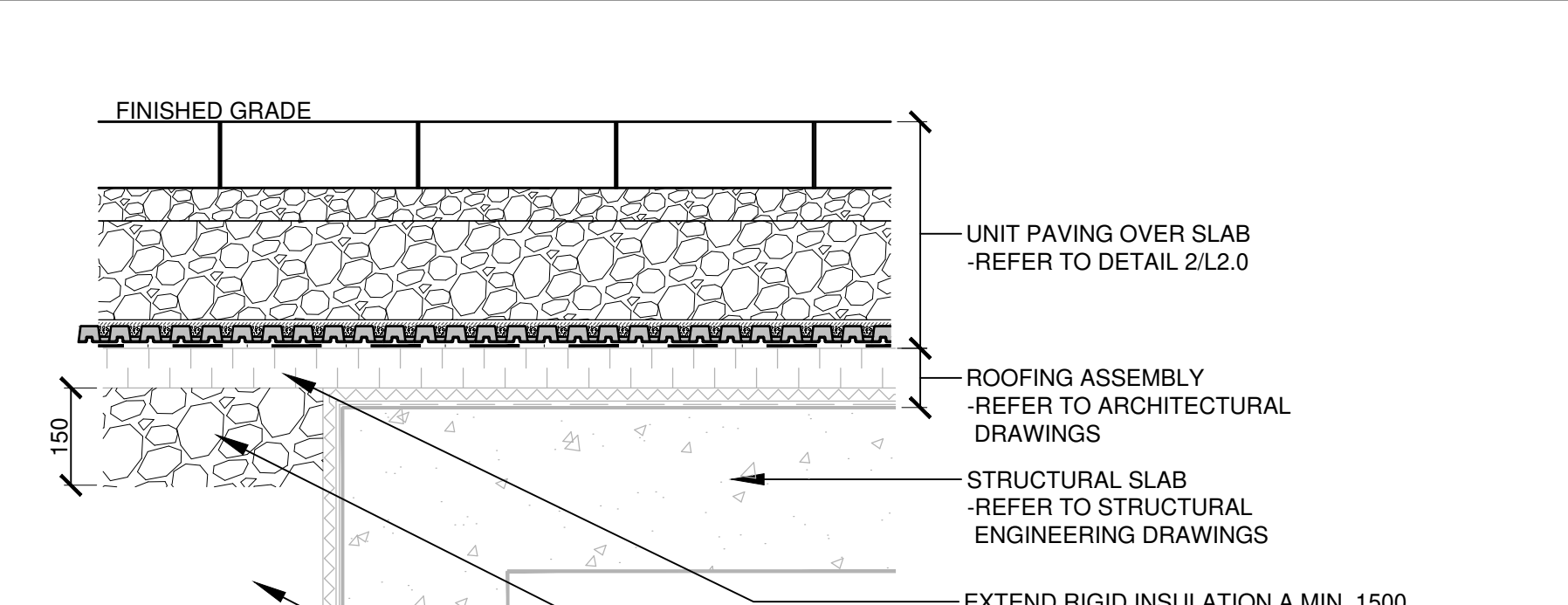
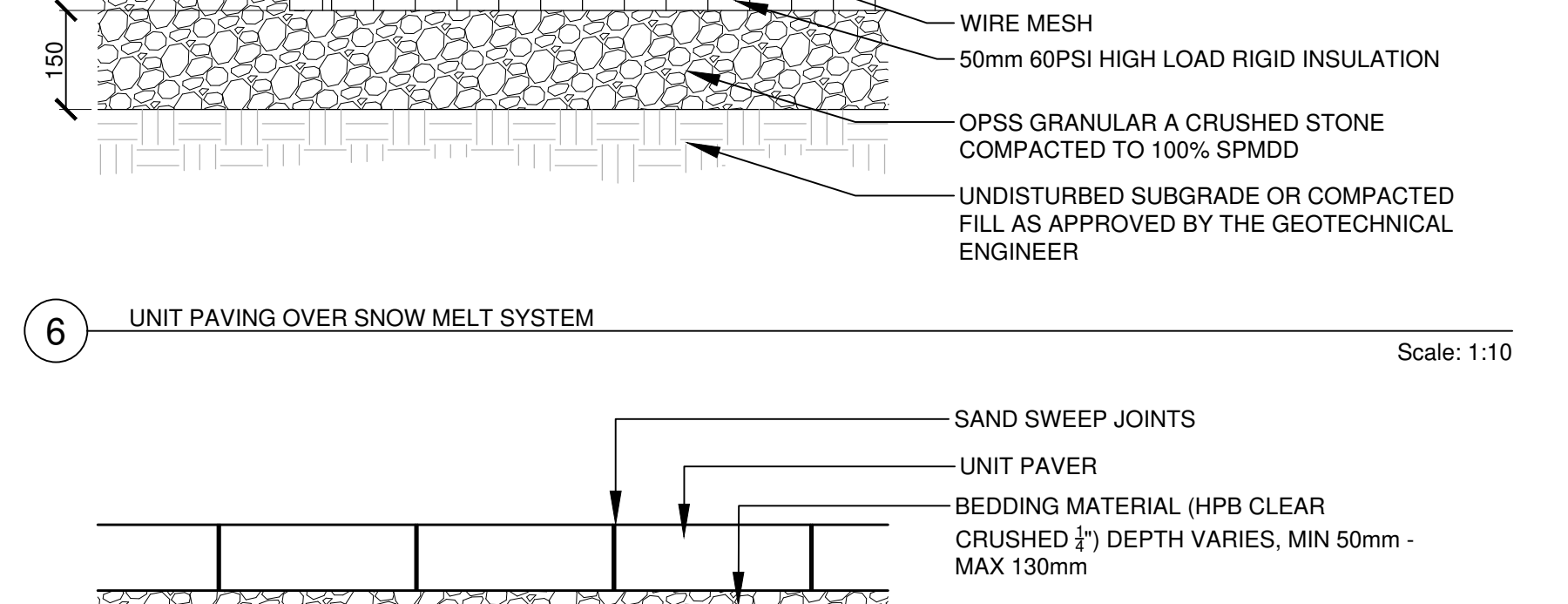
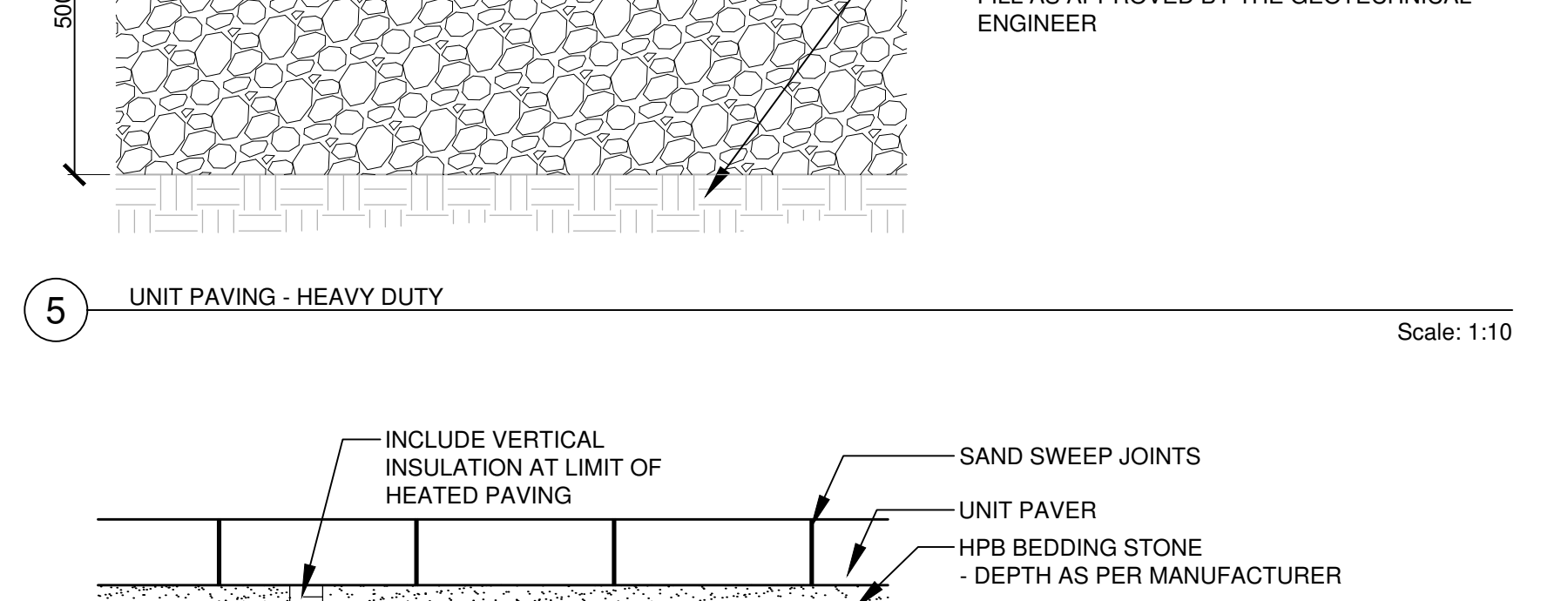
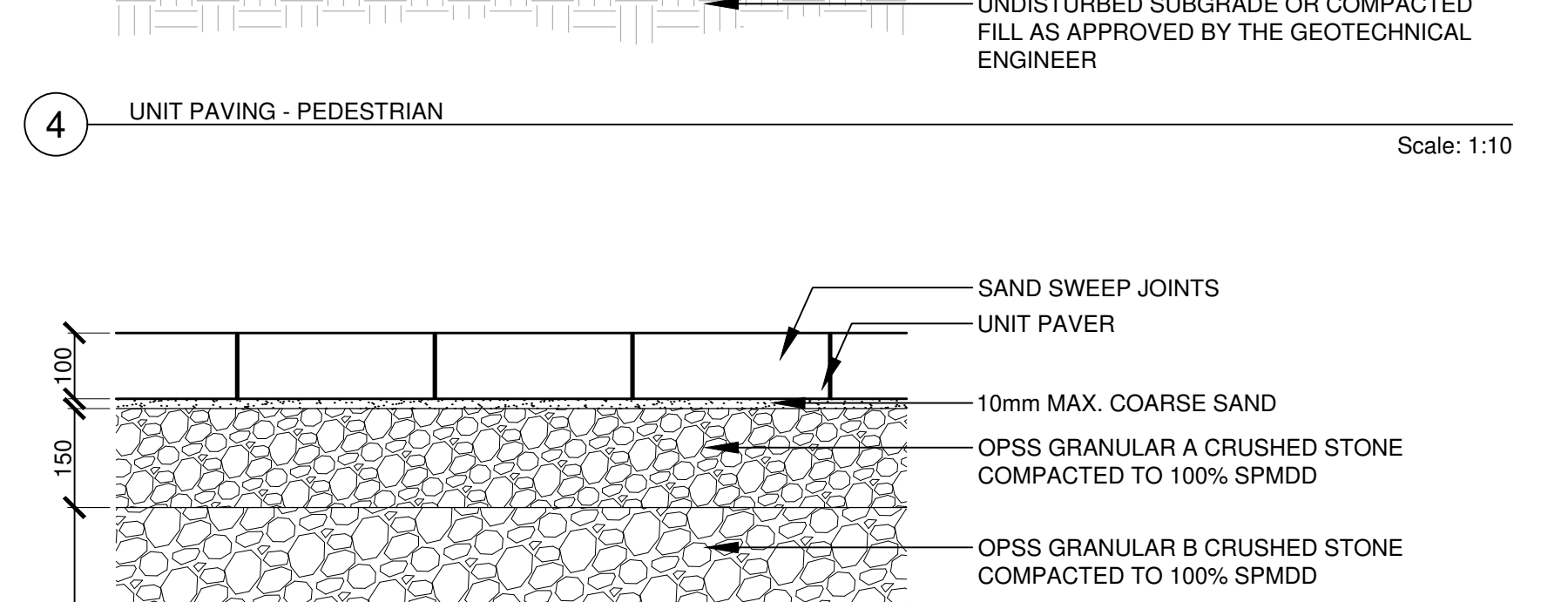
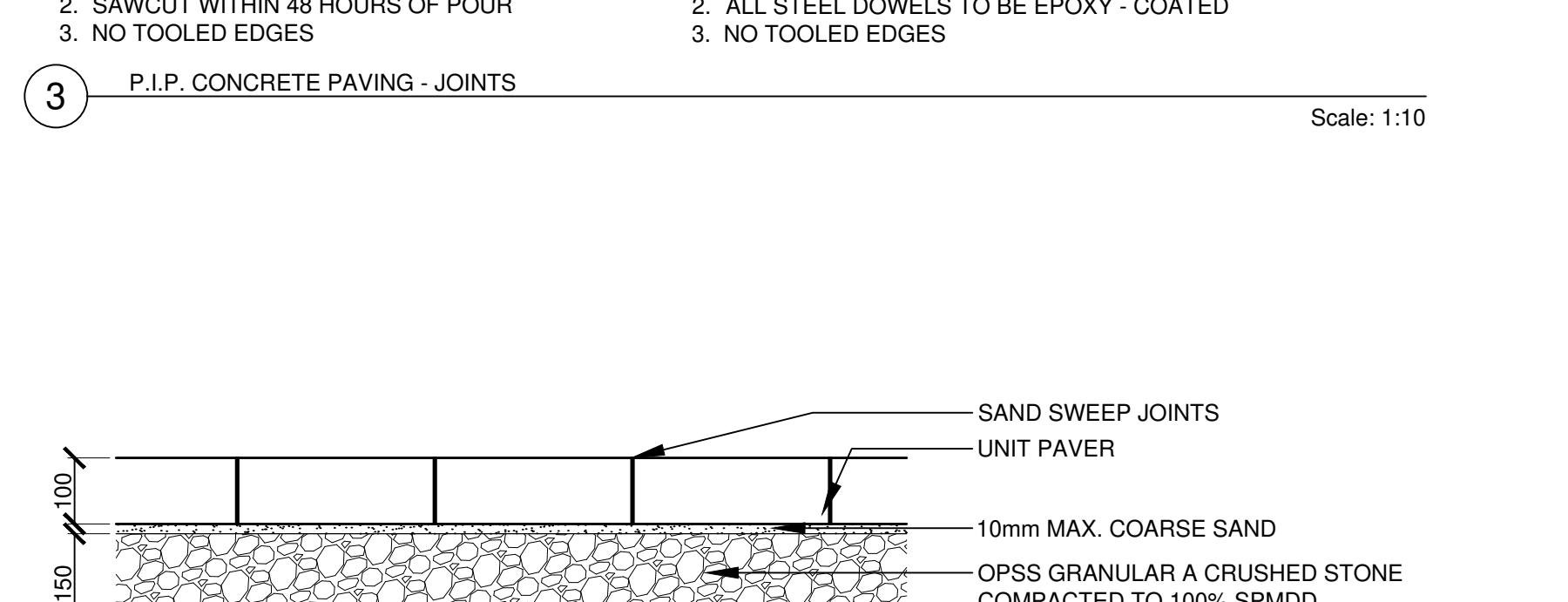
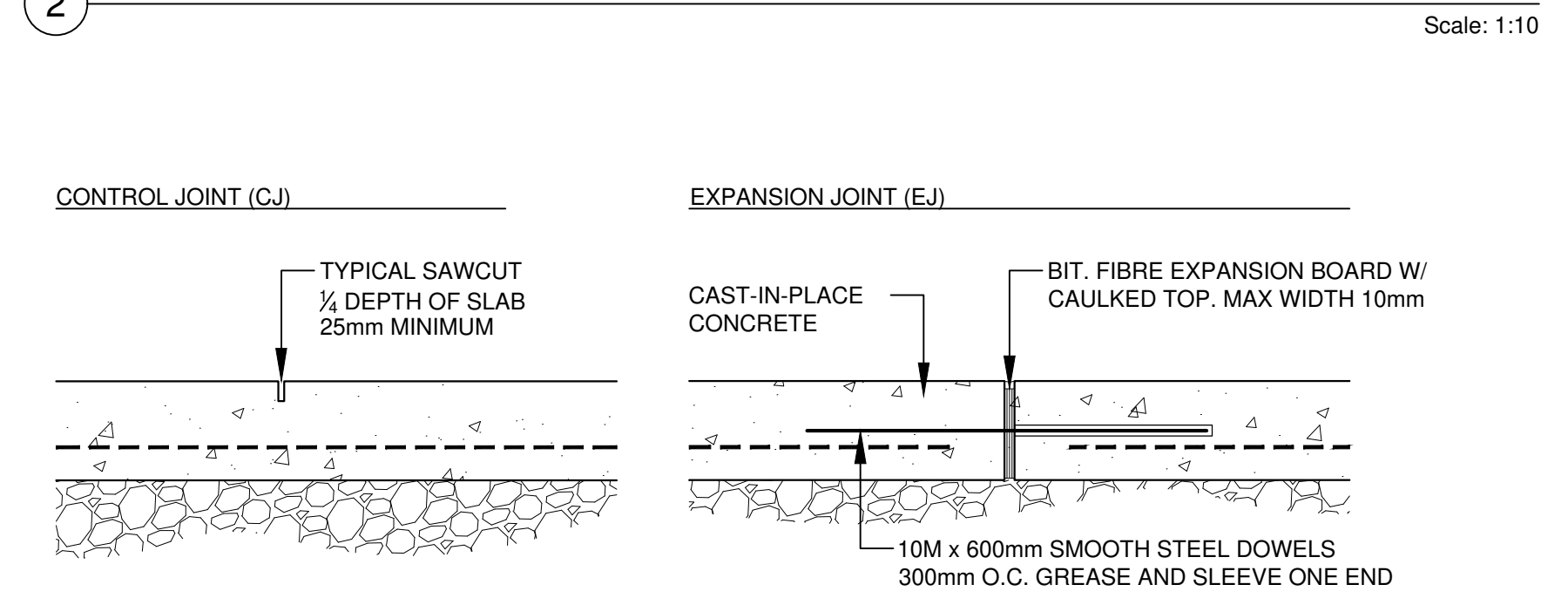
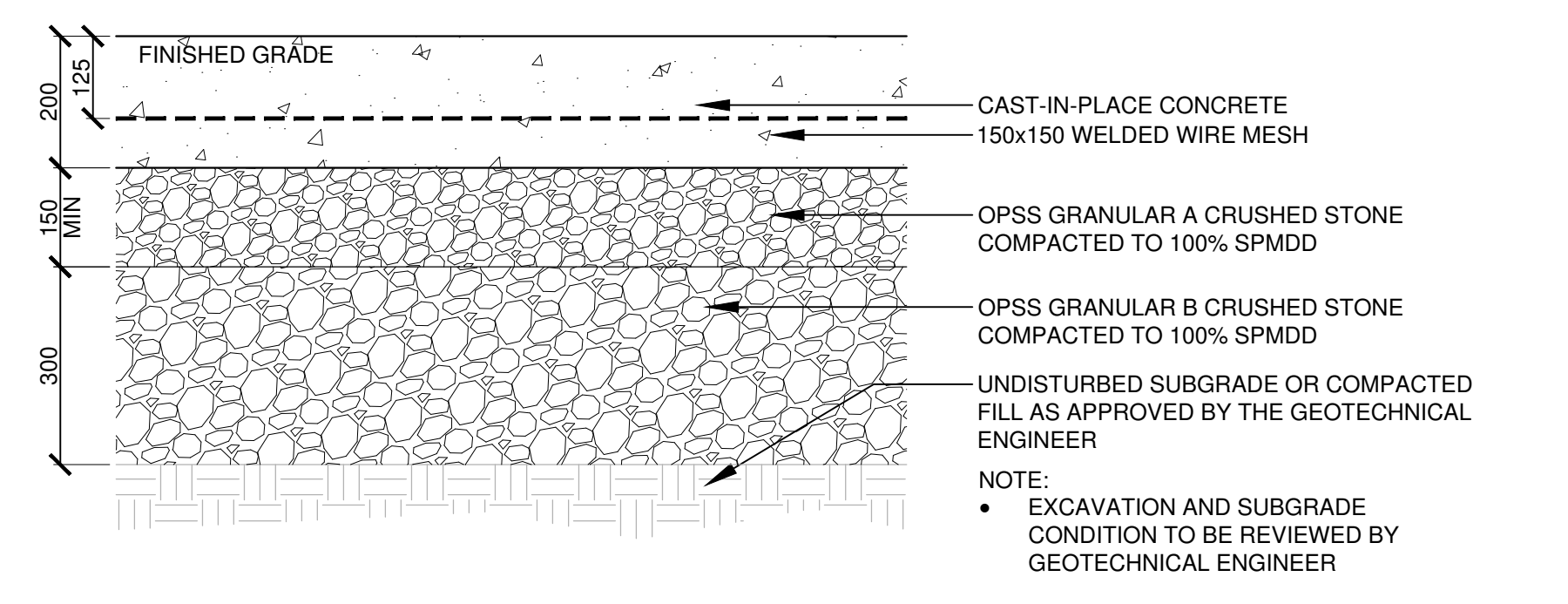
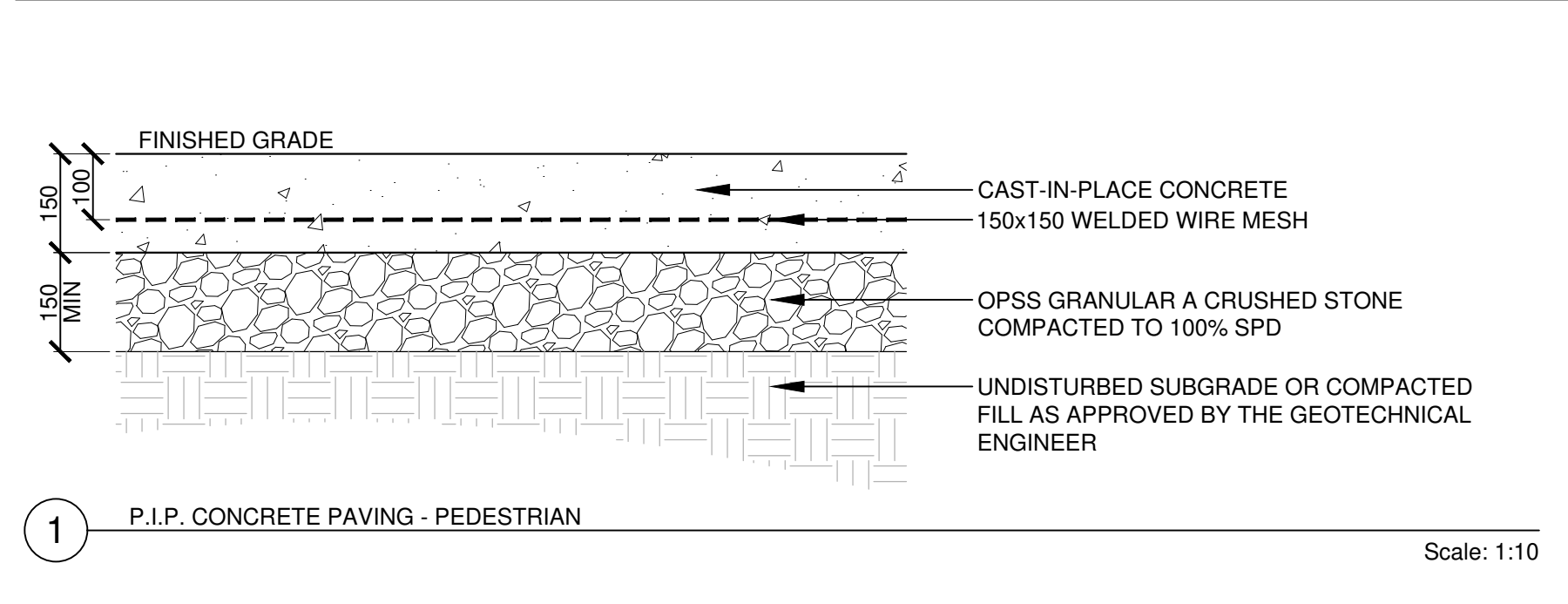
AM	ARONIA MELANOCARPA	BLACK CHOKERBERRY	---	600mm HT.	POT. 1000mm O.C.
CS	CORNUS SERICEA 'YARROW'	ARCTIC FIRE DOGWOOD	---	600mm HT.	POT. 1000mm O.C.
DL	DIENERSIA LONICERA	BUSH HONEYBUCKLE	---	600mm HT.	POT. 1000mm O.C.
HP	HYDRANGEA PANDOLFI 'LITTLE QUICKER'	LITTLE QUICKER HYDRANGEA	---	450mm HT.	POT. 750mm O.C.
HQ	HYDRANGEA QUERCIFOLIA	OPULENT HYDRANGEA	---	450mm HT.	POT. 750mm O.C.
CO	CORNUS STYRACIA	DOGWOOD	---	450mm HT.	POT. 750mm O.C.
CA	CORNUS ALBA 'SOLISTAR'	COMMON WITCH-HAZEL	51	1000mm HT.	POT. 1000mm O.C.
AM	AMELANCHIER CANADENSIS	SANDMASTER HONEYLOCUST	---	450mm HT.	POT. 750mm O.C.
AR	ARONIA MELANOCARPA	ARNOOLD RED HONEYBUCKLE	---	400mm HT.	POT. 1000mm O.C.
AF	FRAXINUS AMMOCYPRUS	SHRUBBY DOGWOOD	---	450mm HT.	POT. 750mm O.C.
PT	PHYTOCAMPUS GRACILESCENS 'DARROLD'	DARROLD NINEBARK	---	450mm HT.	POT. 750mm O.C.
FM	FRAXINUS MUGO	MUGO HICKORY	---	450mm HT.	POT. 900mm O.C.
IM	IRIS SIBIRICA	MOUNTAIN CURRENT	---	450mm HT.	POT. 600mm O.C.
RA	RHUS ARBORESCENS 'GRO-LOW'	GROW LOW SUMAC	---	450mm HT.	POT. 600mm O.C.
RE	RHUS GLABRA	RHUSUS ROSE	---	450mm HT.	POT. 600mm O.C.
SV	SYRINGA VULGARIS 'TOR'	TOR SYRINGA	---	450mm HT.	POT. 600mm O.C.
SS	SIBYRICA VULGARIS 'SENSATION'	SENSATION FRENCH HYBRID LILAC	---	800mm HT.	POT. 1200mm O.C.
VL	VIBURNUM LANTANA	WINTERING TREE	---	450mm HT.	POT. 1000mm O.C.

PERENNIALS

EP	ERIGONIA PURPUREA 'PINKWAVE WHITE'	WHITE CONEFLOWER	---	1 GAL. POT.	POT. 400mm O.C.
GM	GERANIUM MACROPHYLLUM	CRANFORD GERANIUM	---	1 GAL. POT.	POT. 400mm O.C.
HS	HEMIFRONTALIS 'STELLA D'ORO'	STELL D'ORO BAYLEY	---	1 GAL. POT.	POT. 400mm O.C.
MF	MERISIA FASCICULARIS 'WALKERS LOW'	WALKERS LOW GAITHER	---	1 GAL. POT.	POT. 400mm O.C.
RF	RUBRODIA FULGIDA 'GOLDSTRUM'	BLACK EYED SUSAN	---	1 GAL. POT.	POT. 400mm O.C.
SS	SEDUM SPECTABILE 'AUTUMN JOY'	AUTUMN JOY SEDUM	---	1 GAL. POT.	POT. 450mm O.C.

ORNAMENTAL GRASSES

GA	GRAMINEAE & APOCYNACEAE 'VAL TROBIS'	FOREST RED GRASS	---	1 GAL. POT.	POT. 600mm O.C.
PV	PANICUM VIRGATUM 'SHEWING'	SHEWING'S SWITCH GRASS	---	1 GAL. POT.	POT. 600mm O.C.
MS	MELICACEAE 'SILVER FEATHER'	SILVER FEATHER MISCANTHUS	---	1 GAL. POT.	POT. 1000mm O.C.



NOKIA Ottawa Campus
570 March Rd, Kanata Ottawa ON K2K 2T6

BLOCK 6 AND PART OF BLOCK 1 REGISTERED PLAN 43642 AND PART OF LOTS 8 AND 9 CONCESSION 4

Gensler
150 King Street W, Suite 1400, Toronto, ON M5H 1K9, Canada

Project Name: Nokia Ottawa Campus
Project Number: 027.7946.000 (CSW PROJ. NO. 2113-02)
Description: Promenade Plank Unit Paving, Landscape Details

Scale: AS SHOWN

File #: 007-1240149

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NOTES:

- EXTEND GRANULAR BASE AS SHOWN AT WALL LOCATIONS
- SET LARGER BASE STONE DIRECTLY ON COMPACTED GRANULARS AND SETTING BED.
- TIE BACK STONE AT MAXIMUM 1500 MM SPACING VERTICALLY STAGGER STONE LOCATION DURING WALL CONSTRUCTION
- BOND TOP 3 STONE COURSES WITH MASONRY GLUE.
- FOR END CONDITION BOND ALL END STONES TOGETHER
- FILL ALL CAVITIES WITH STONEDUST / STONE RUBBLE.
- TOP COURSE OF STONE TO MATCH FULL WIDTH OF WALL DIMENSION
- FOR END CONDITION USE FULL SIZED STONE. DO NOT LEAVE RUBBLE INFILL EXPOSED.
- DO NOT STACK VERTICAL JOINTING. REFER TO SAMPLE ELEVATION FOR TYPICAL PATTERN
- CONTINUOUS FILTER FABRIC BEHIND WALL WRAP DOWN OVER GRANULAR BASE AS SHOWN.
- USE CHALK LINE AND TRIM END STONE TO PRODUCE ELEVATION AS SHOWN. DO NOT USE SMALL PIECES TO END STONE COURSES.
- MAINTAIN CONSTANT FRONT BATTER FOR LENGTH OF EACH WALL. BACK BATTER CAN VARY IN BURIED CONDITION.
- REFER TO LANDSCAPE GRADING PLAN FOR TOP OF WALL GRADES
- FOR LANDSCAPE CONDITION WRAP FINISHED GRADE AROUND END OF WALL AND MATCH PAVEMENT EDGE IN FRONT OF WALL.

PRODUCT INFO:

- GRANITE TWISI PAVER AS SUPPLIED BY XXX OR APPROVED EQUAL
- SIZE: 300 X 300 X 100 (THICKNESS). INSTALLED 2 ROWS DEEP FOR TOTAL WIDTH OF 600MM.
- COLOUR: DARK GREY/BLACK

HEAVY DUTY UNIT PAVING:

- 100x300x100 PROMENADE PLANK PAVER
- HERING BONE PATTERN
- 25% LIGHT GREY SERIES FINISH GRANITE, 25% GRANITE BLAND IL CAMPO FINISH, 50% STEEL GREY BLEND SMOOTH FINISH

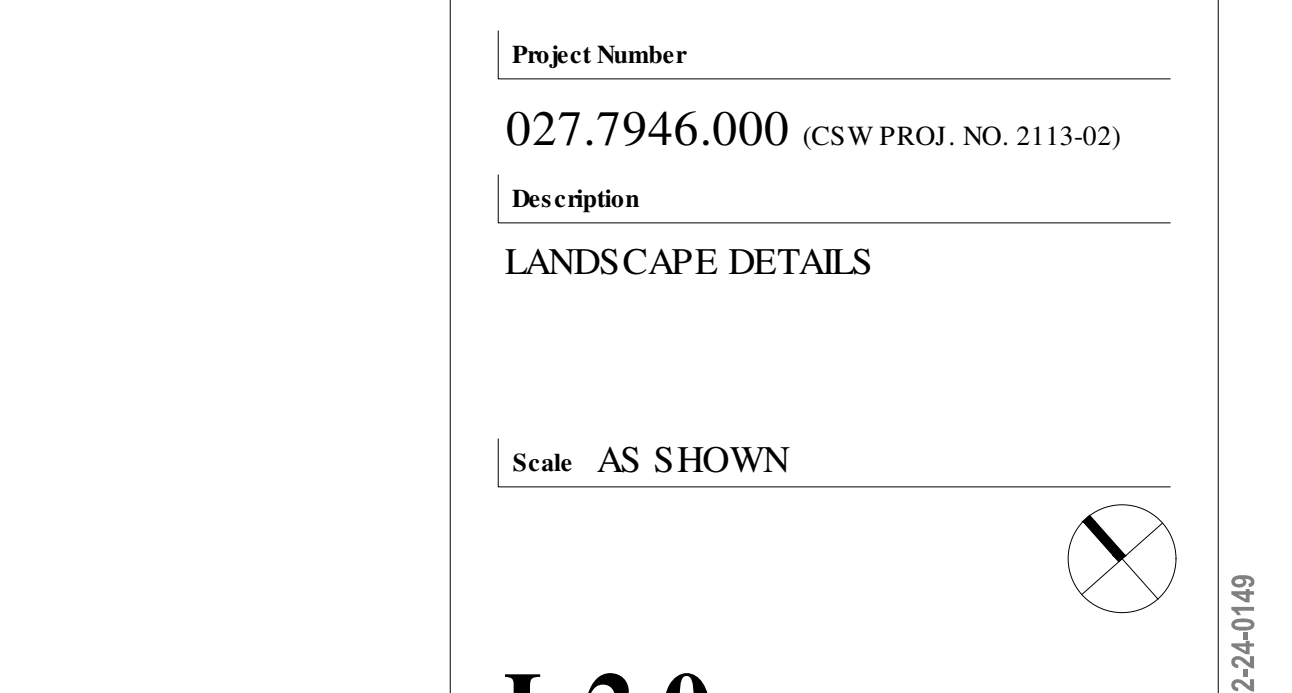
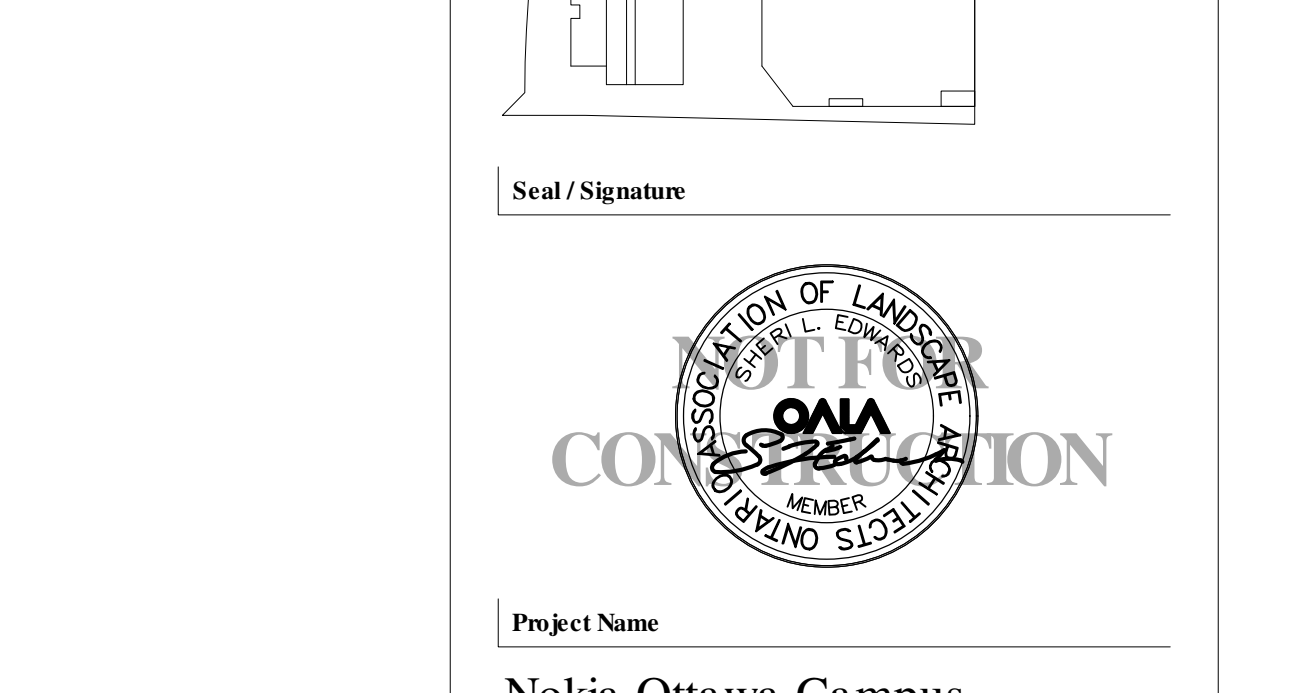
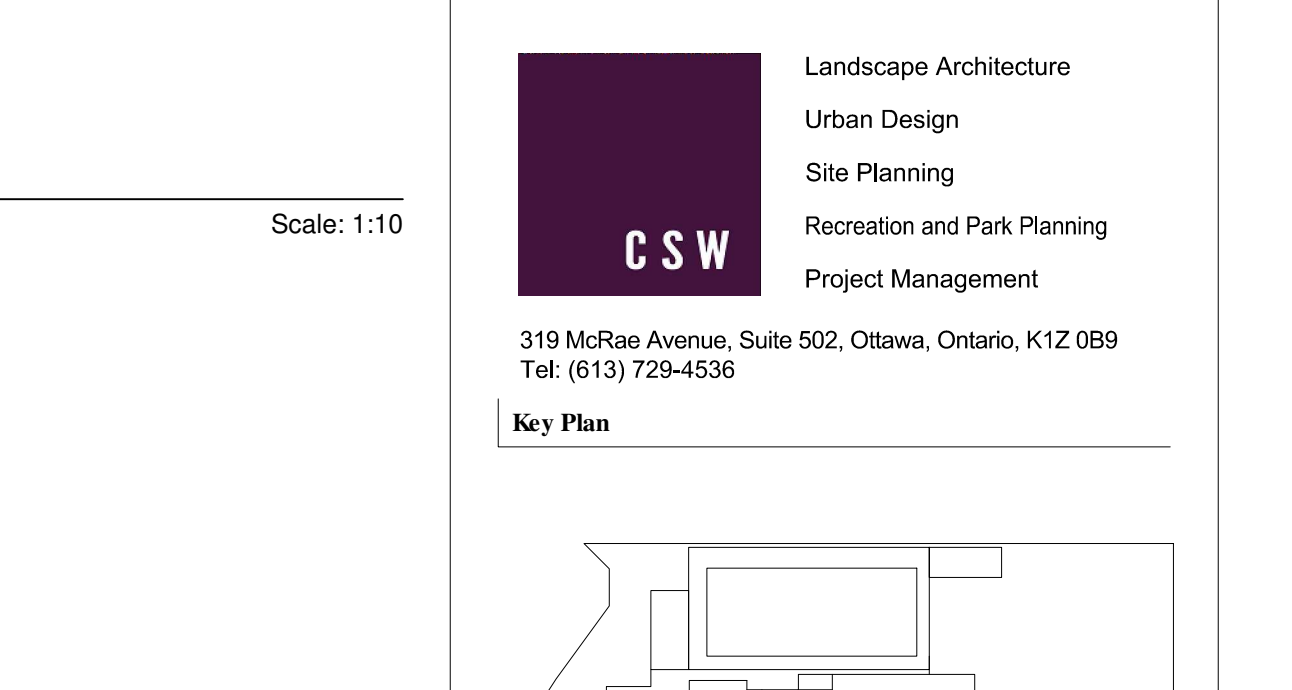
PROMENADE PLANK UNIT PAVING:

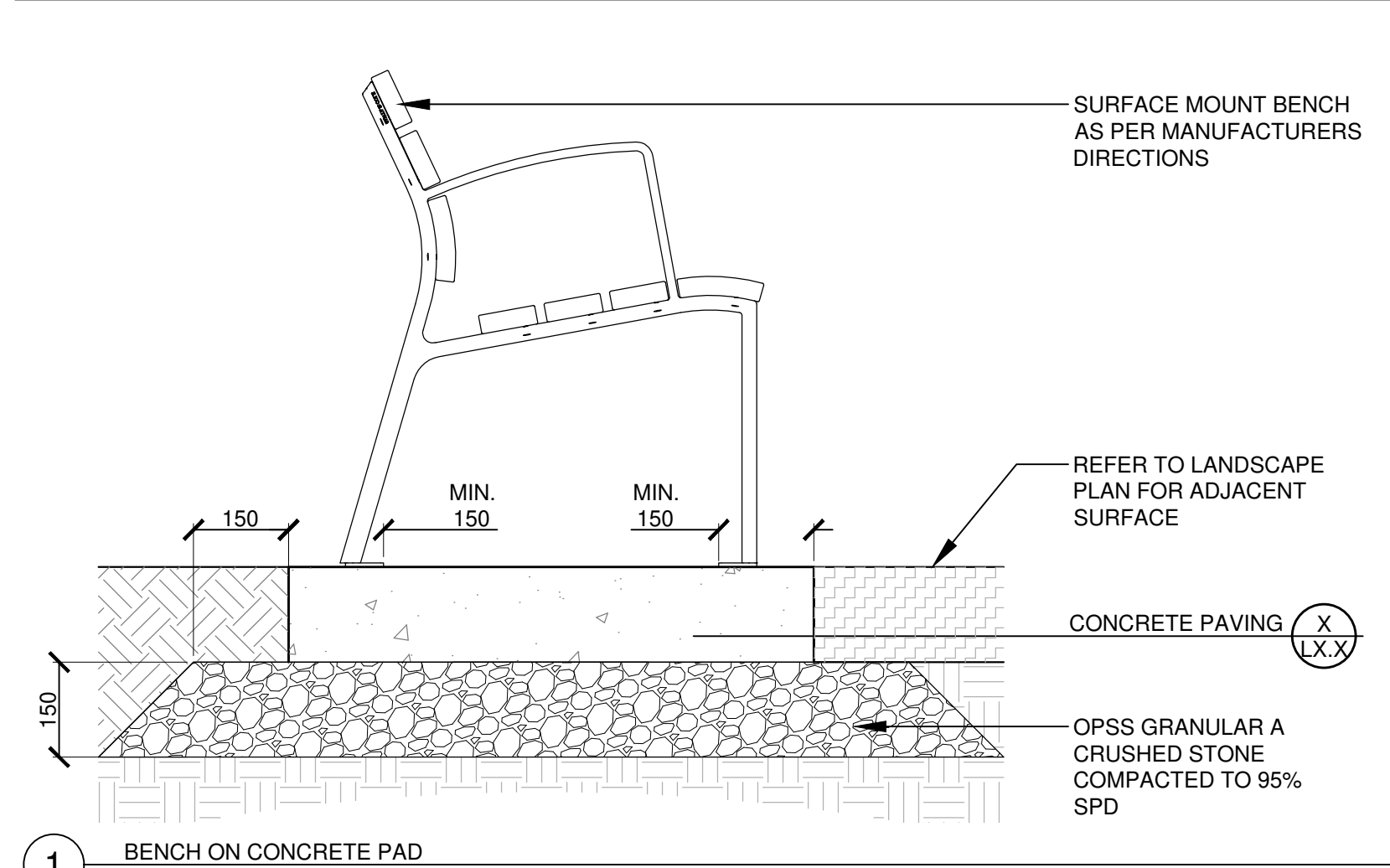
- SIZE 100x300x100
- LINEAR PATTERN
- STEEL GREY SERIES GRANITE FINISH

STAINLESS STEEL BOLLARD WITH 300x300 GRANITE BASE:

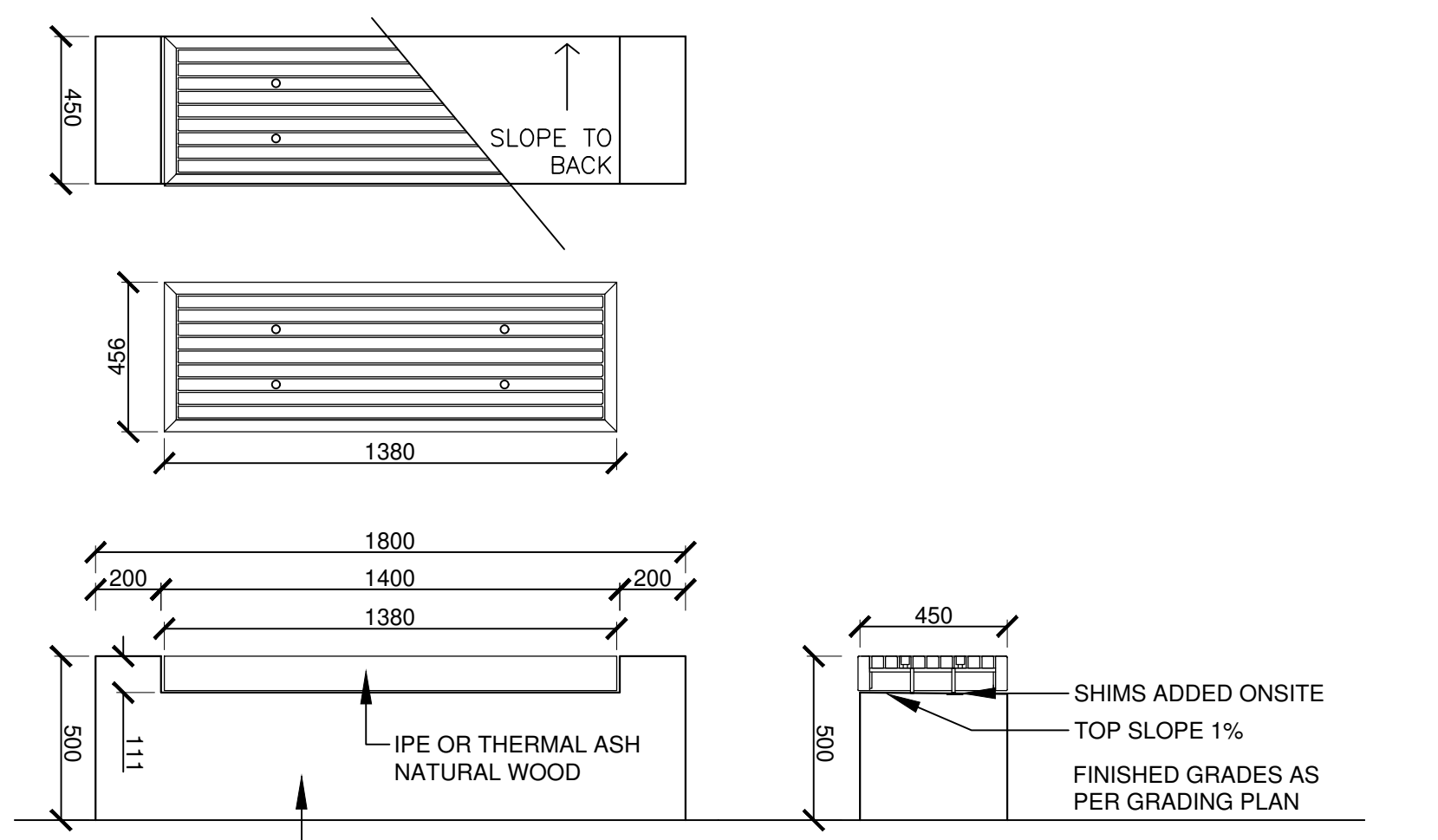
- PROMENADE PLANK UNIT PAVING
- SIZE VARIES: 200x600, 100x400, 100x300
- LINEAR PATTERN G
- 50% LIGHT GREY SERIES FINISH GRANITE
- 25% GRANITE BLAND IL CAMPO FINISH
- 25% STEEL GREY BLEND SMOOTH FINISH

200x250x100 GRANITE GUTTER (WHITE STAR GRANITE OR EQUAL) OR 200mm WIDE TRENCH DRAIN - REFER TO CIVIL FOR LOCATIONS

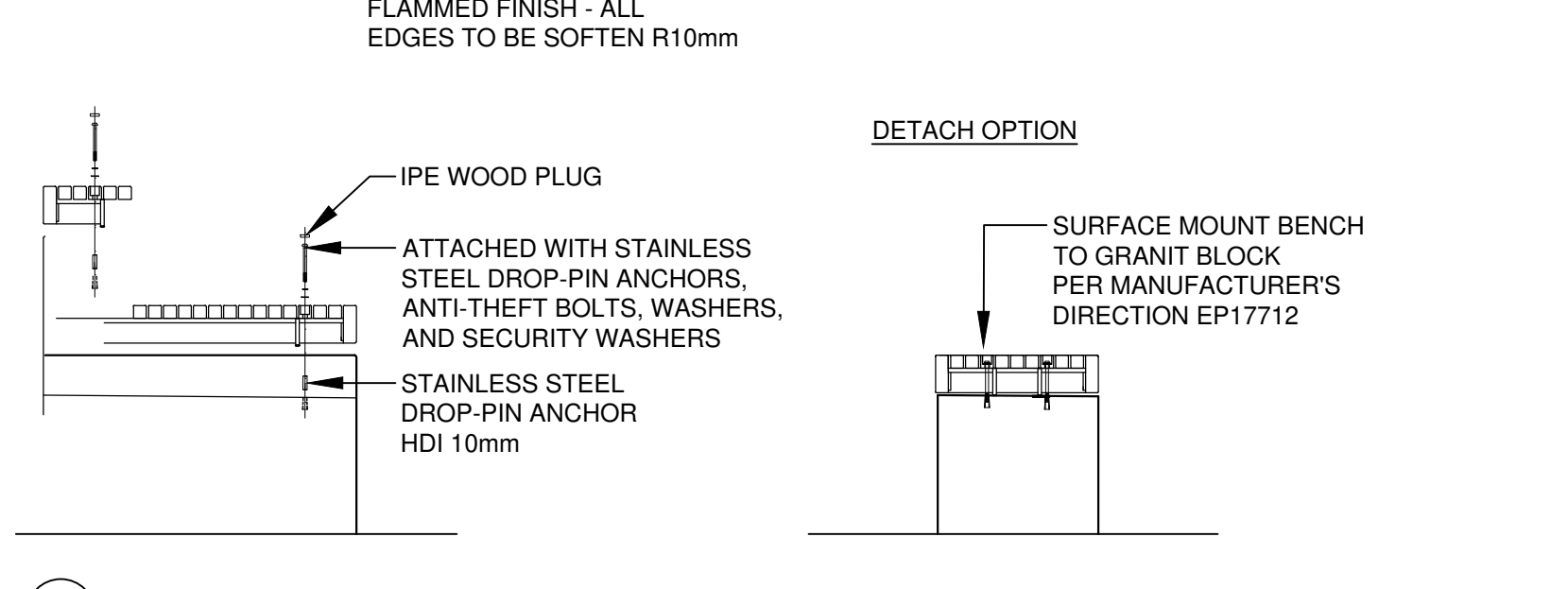




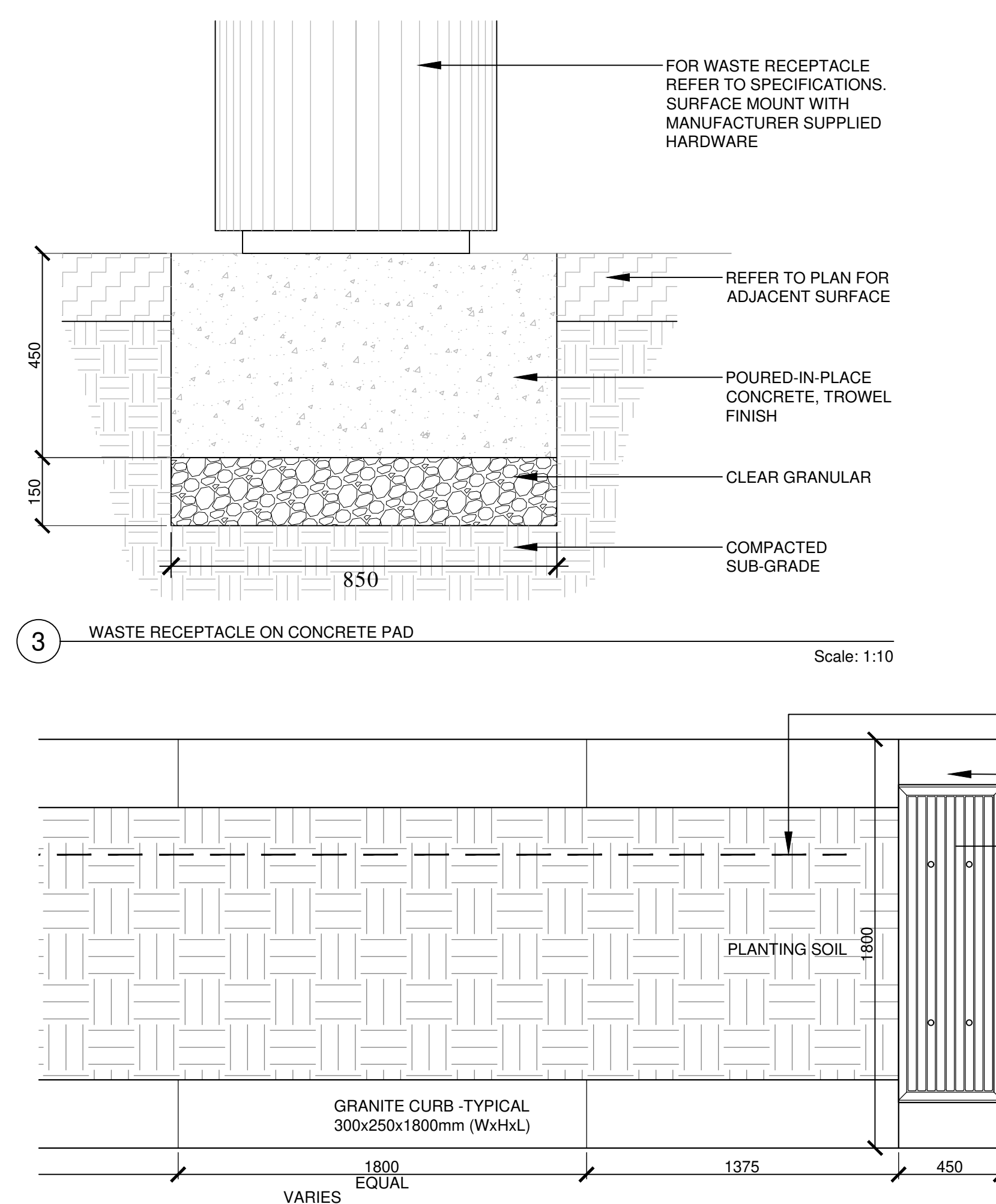
1 BENCH ON CONCRETE PAD Scale: 1:10



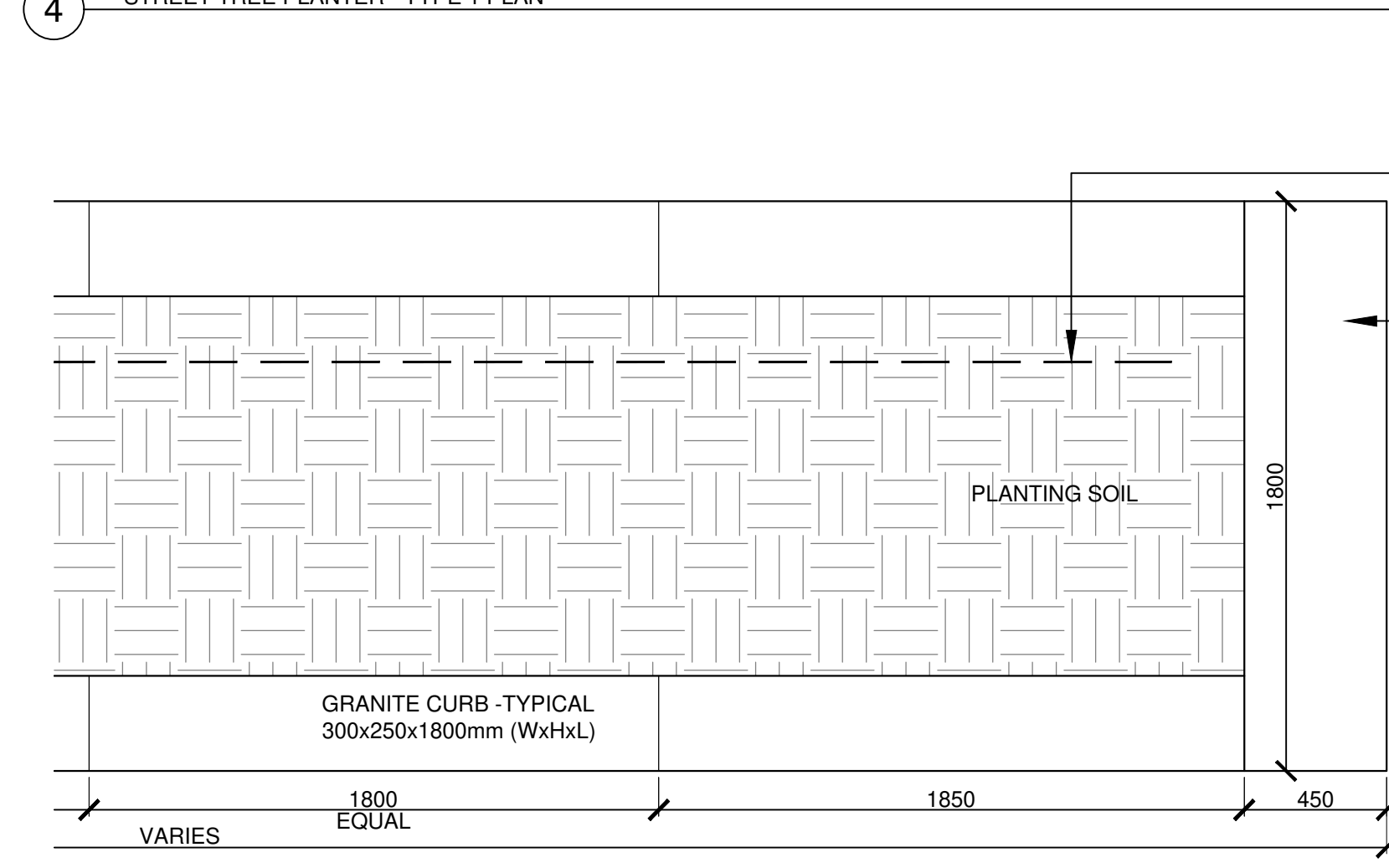
2 WOODEN END BENCH Scale: 1:10



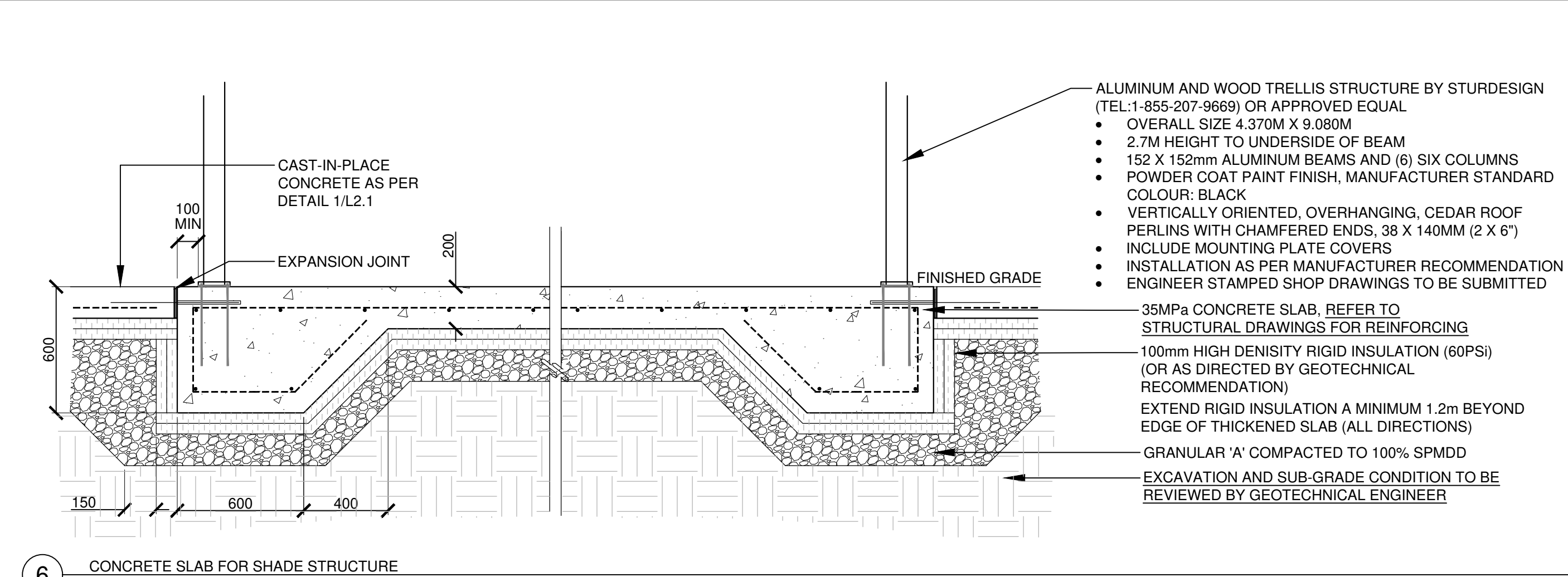
3 WASTE RECEPTACLE ON CONCRETE PAD Scale: 1:10



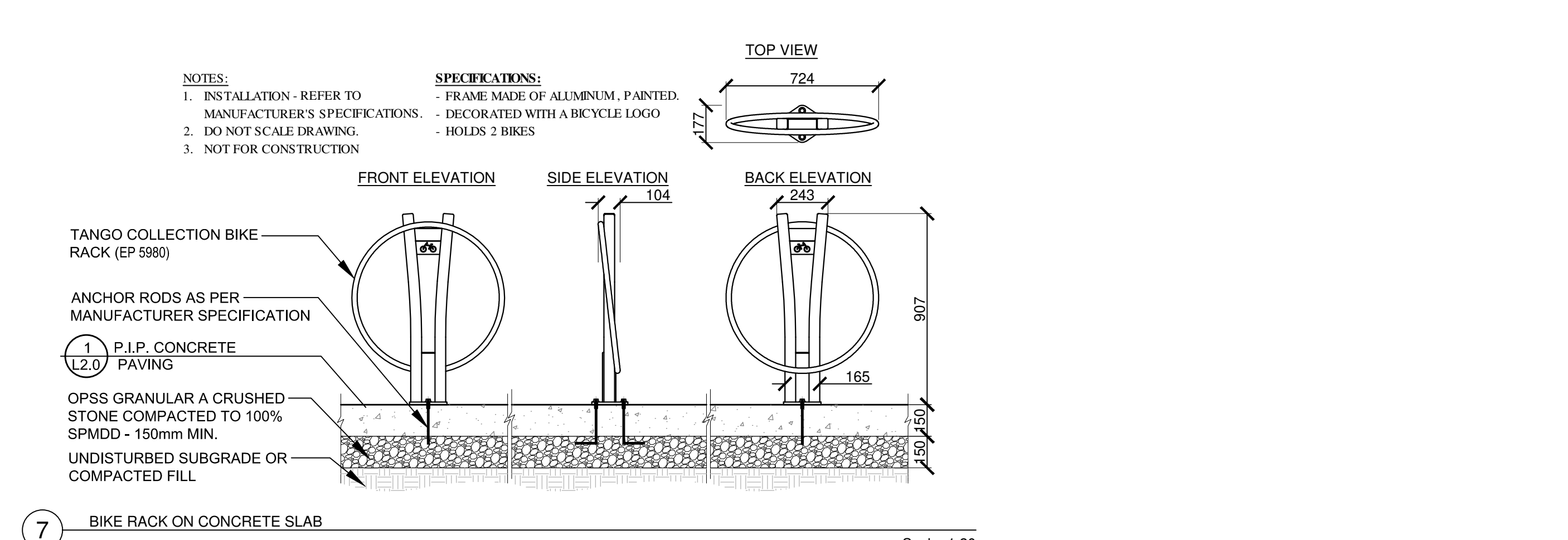
4 STREET TREE PLANTER - TYPE 1 PLAN Scale: 1:10



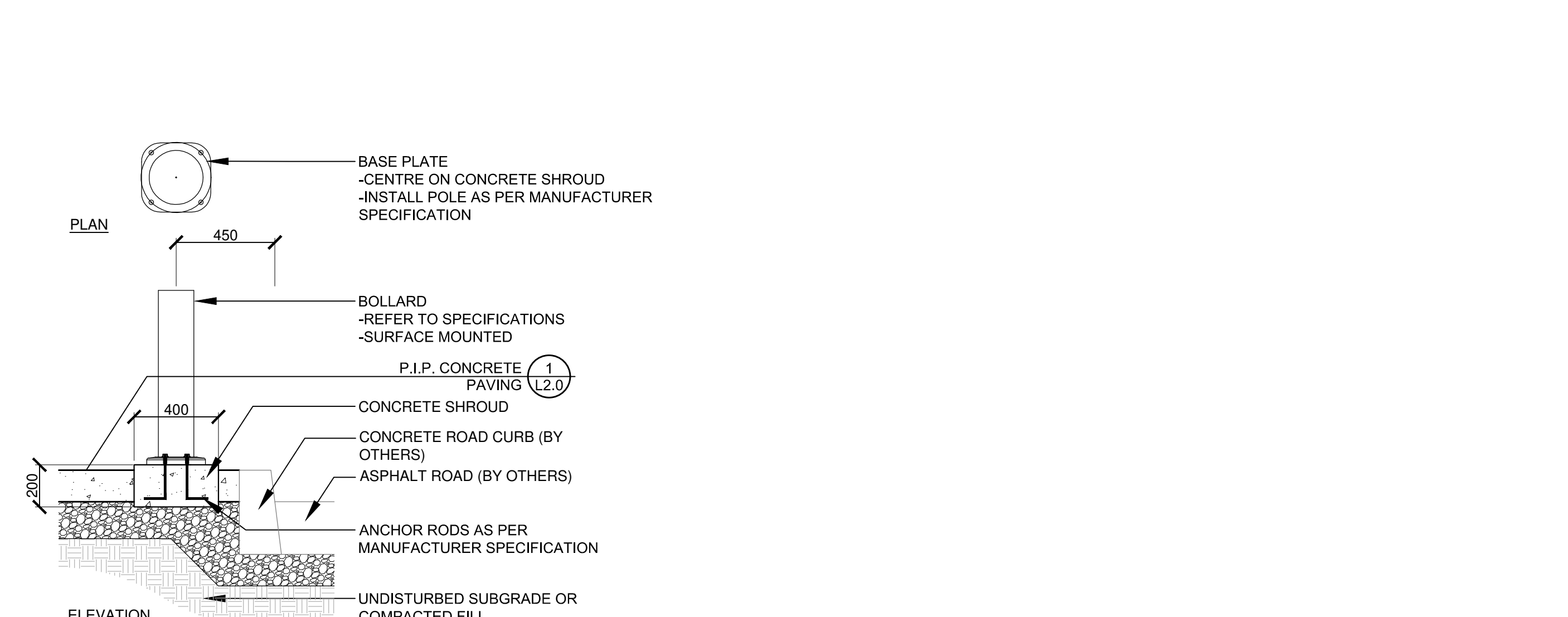
5 STREET TREE PLANTER - TYPE 2 PLAN Scale: 1:10



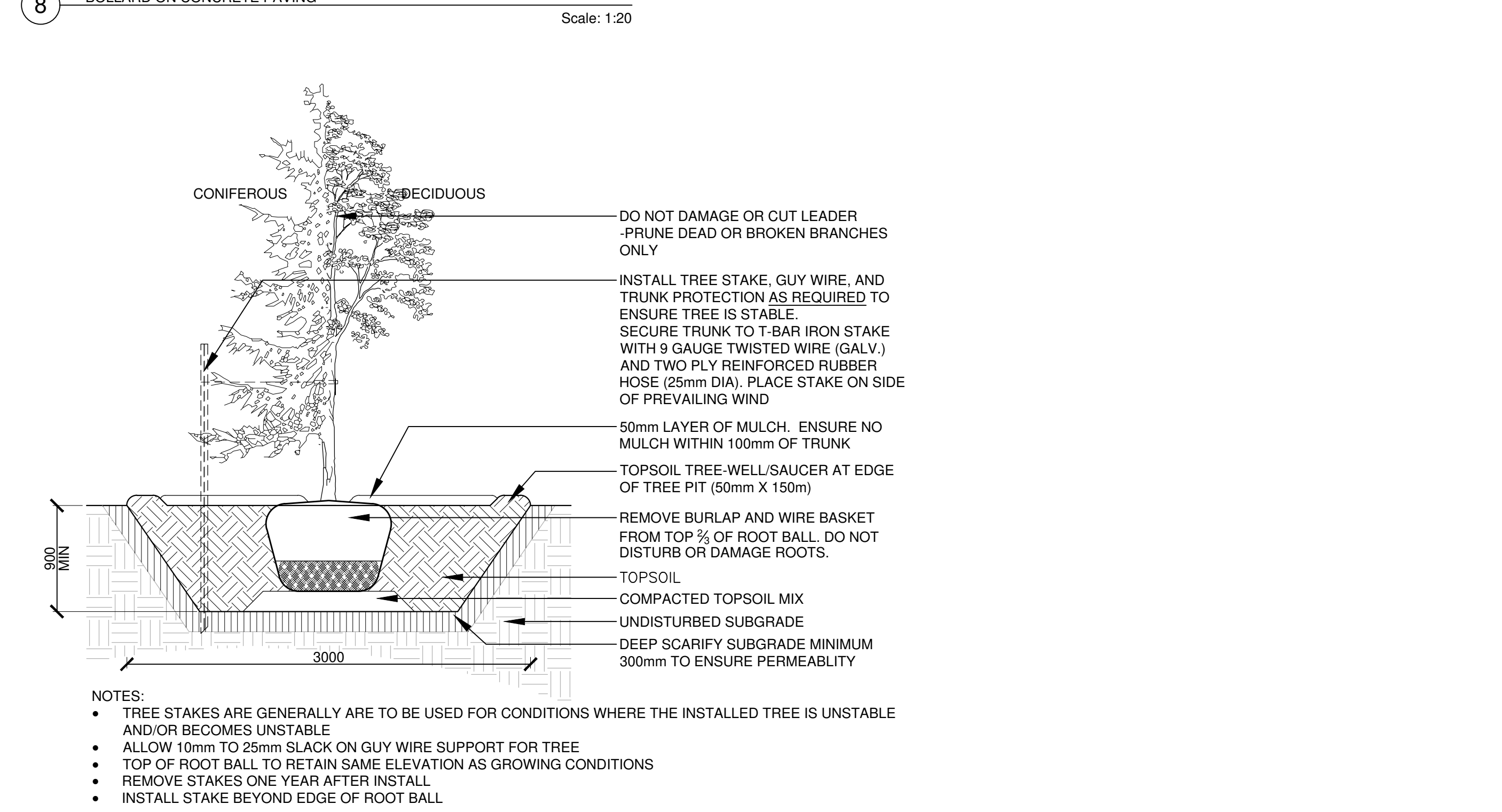
6 CONCRETE SLAB FOR SHADE STRUCTURE Scale: 1:20



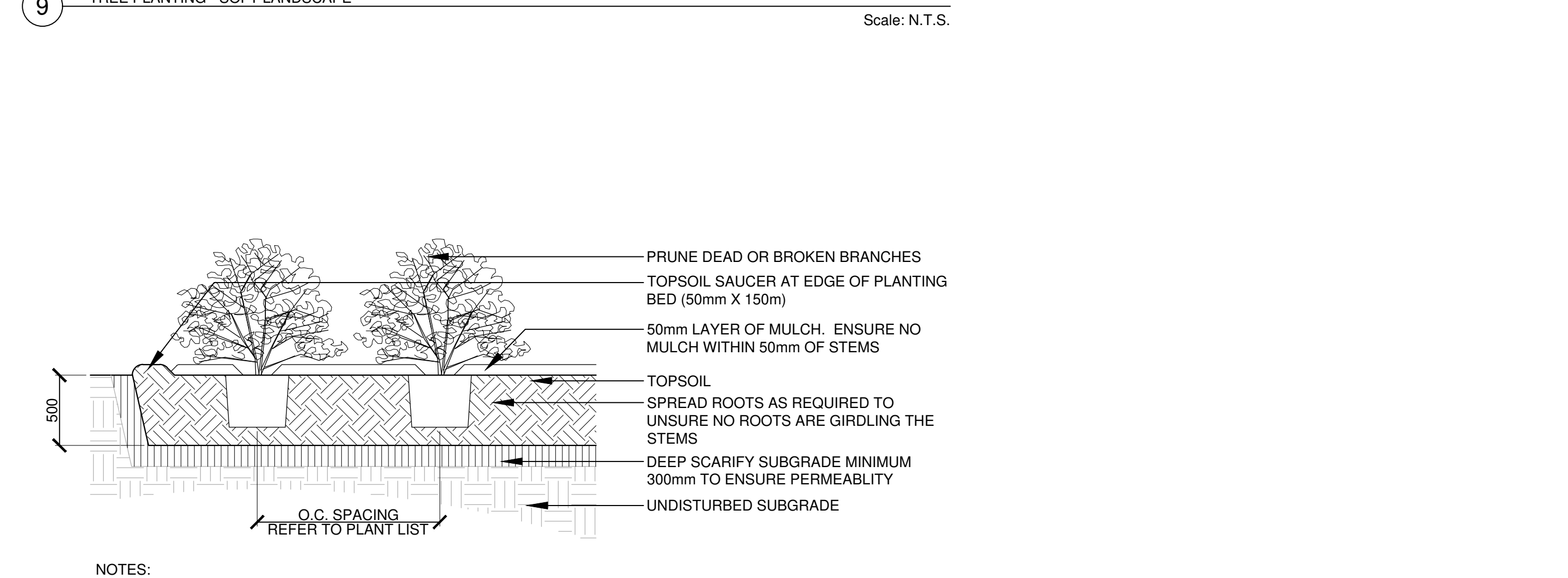
7 BIKE RACK ON CONCRETE SLAB Scale: 1:20



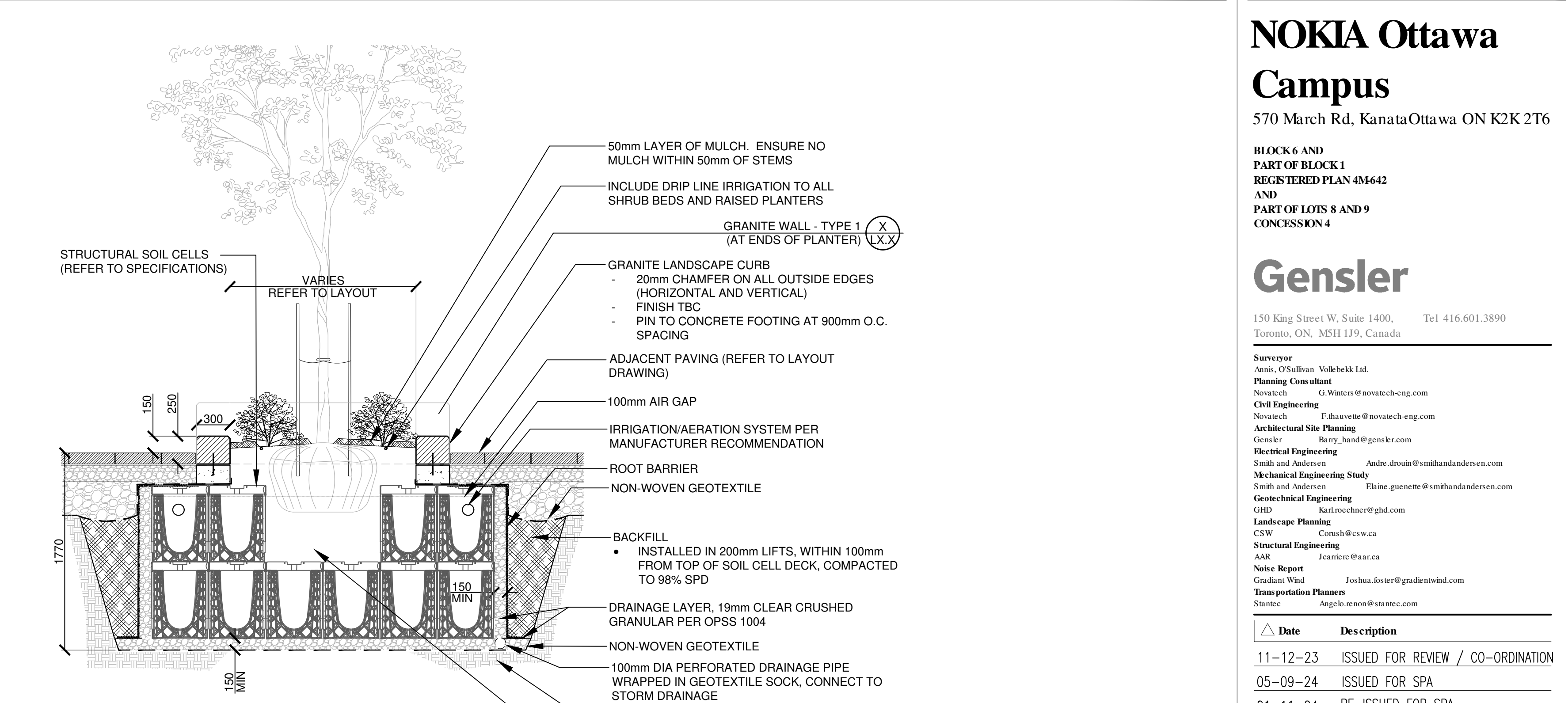
8 BOLLARD ON CONCRETE PAVING Scale: 1:20



9 TREE PLANTING - SOFT LANDSCAPE Scale: N.T.S.

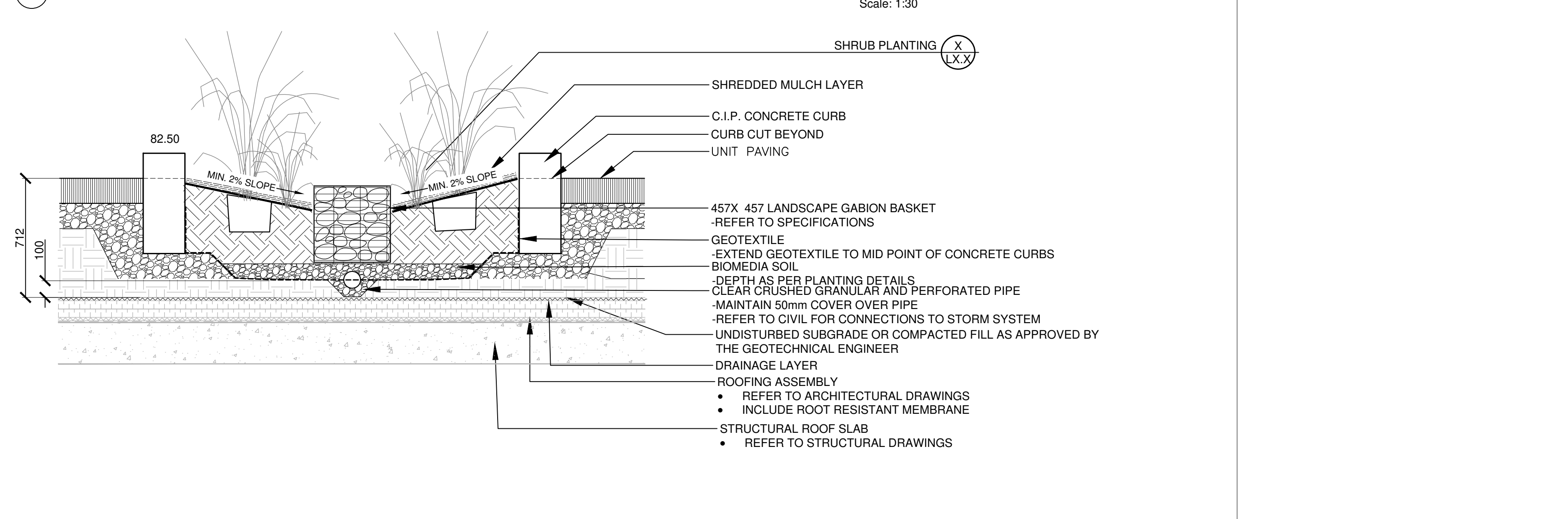


10 SHRUB PLANTING Scale: N.T.S.

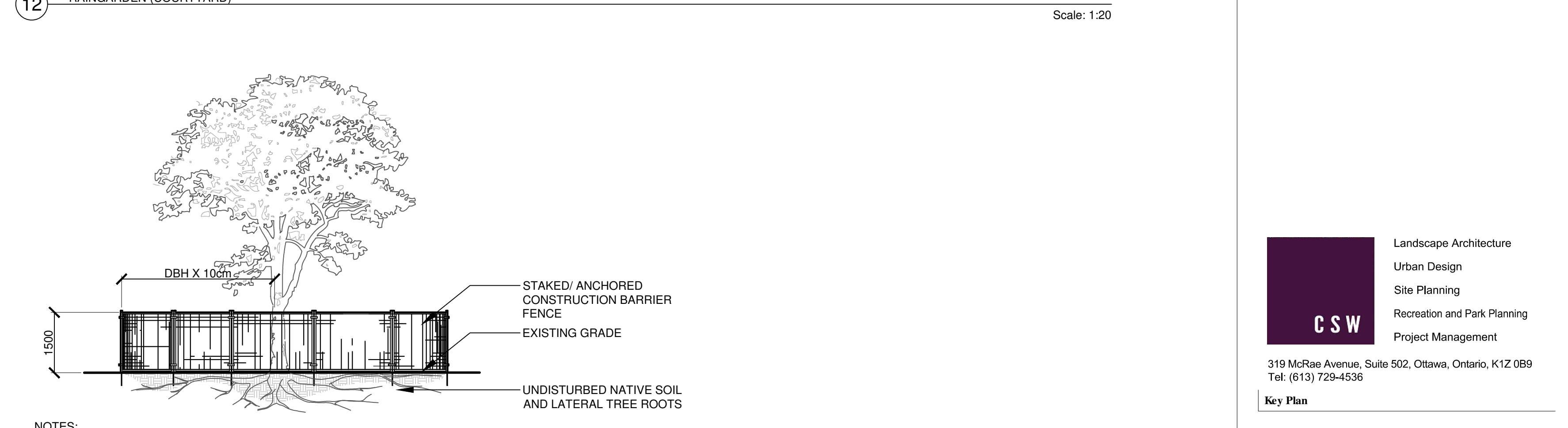


INSTALLATION/EXCAVATION TIPS:
 1. ADD 5% TO OUTER PLAN DIMENSIONS WHEN EXCAVATING PIT.
 2. ALWAYS CHECK PIT DIMENSIONS AT BASE OF PIT, ENSURING SIDES ARE CLEAN AND SQUARE.
 3. LEVEL AND SCREED DRAINAGE LAYER PRIOR TO PLACEMENT OF CELLS.
 NOTES:
 1. REFER TO CIVIL FOR DRAINAGE CONNECTIONS
 2. CONTRACTOR IS RESPONSIBLE TO REVIEW ALL SITE CONDITIONS PRIOR TO INSTALLATION INCLUDING FIELD CONDITIONS OF UNDERGROUND SERVICES
 3. CONTRACTOR TO COORDINATE AND SUBMIT SHOP DRAWINGS FOR REVIEW PRIOR TO INSTALLATION. SHOP DRAWINGS SHALL INCLUDE: DETAILS FOR POSITIONING AROUND UTILITIES.

11 STREET TREE PLANTER Scale: 1:30



12 RANGARDEN (COURTYARD) Scale: 1:20



NOTES:
 THE FOLLOWING PROTECTION MEASURES MUST BE IMPLEMENTED FOR RETAINED TREES, BOTH ON SITE AND ADJACENT SITES, PRIOR TO ANY TREE REMOVAL OR SITE WORKS AND MAINTAINED FOR THE DURATION OF CONSTRUCTION ON SITE.
 1. UNDER THE GUIDANCE OF AN ARBORIST, ERECT A FENCE AT THE CRITICAL ROOT ZONE (CRZ) OF TREES WHERE THE CRZ IS ESTABLISHED AS BEING 10 CENTIMETERS FROM THE TRUNK FOR EVERY CENTIMETER OF TRUNK DIAMETER AT BREAST HEIGHT. THE CRZ IS CALCULATED AS DBH X 10cm.
 2. DO NOT PLACE ANY MATERIAL OR EQUIPMENT WITHIN THE CRZ OF THE TREE.
 3. DO NOT ATTACH ANY SIGNS, NOTICES OR POSTERS TO ANY TREE.
 4. DO NOT RAISE OR LOWER THE GRADE WITHIN THE CRZ WITHOUT APPROVAL.
 5. TUNNEL OR BORE WHEN DIGGING WITHIN THE CRZ OF A TREE.
 6. DO NOT DAMAGE THE ROOT SYSTEM, TRUNK, OR BRANCHES OF ANY TREE.
 7. ENSURE THAT EXHAUST FUMES FROM ALL EQUIPMENT ARE NOT DIRECTED TOWARDS ANY TREE CANOPY.

13 TREE PROTECTION FENCE Scale: N.T.S.

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 Website: www.gensler.com

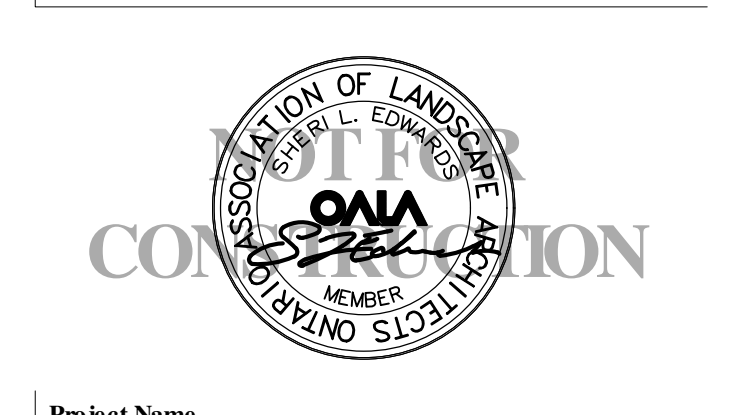
Date	Description
11-12-23	ISSUED FOR REVIEW / CO-ORDINATION
05-09-24	ISSUED FOR SPA
01-11-24	RE-ISSUED FOR SPA
31-01-25	RE-ISSUED FOR SPA
24-07-25	ISSUED FOR INFORMATION PO2: PARKING
05-08-25	RE-ISSUED FOR SPA
29-09-25	RE-ISSUED FOR SPA

C S W
 Landscape Architecture
 Urban Design
 Site Planning
 Recreation and Park Planning
 Project Management
 319 McRae Avenue, Suite 502, Ottawa, Ontario, K1Z 0B9
 Tel: (613) 729-4536

Key Plan



Scale / Signature



Project Name
Nokia Ottawa Campus
 Project Number
027.7946.000 (CSW PROJ. NO. 2113-02)
 Description
LANDSCAPE DETAILS
 Scale AS SHOWN

L2.1
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 Plan #: 1920

File #: 007-0240109