

ATHENA

(ARCHITECTURAL)



NOTE: Images of building are subject to further detailed design development and shall be considered indicative only.



NOTES

THE CONTRACTOR MUST VERIFY IN FIELD (VIF) ALL DIMENSIONS AND CONDITIONS SHOWN ON THIS DRAWING PRIOR TO CONSTRUCTION.



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Environment

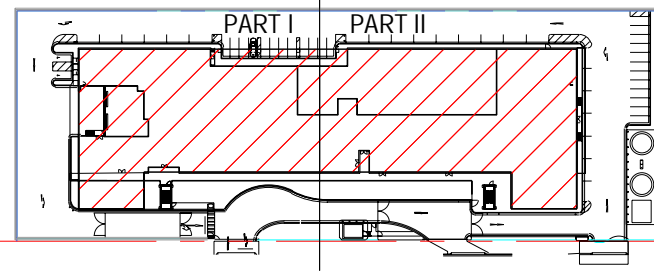
Issued under the Environmental Planning and Assessment Act 1979

Approved Application No: SSD-10467

Granted on: 28 May 2021

Signed: JF Sheet No: 1 of 44

Key Plan:



Project Status: 80% Design Development

Project No.: 60628128

REV.	DATE	DESCRIPTION	DRWN	ENGR	CHK	APP'D
A	14.09.2020	ISSUED FOR INFORMATION	AB	JT	VA	DP

ARCHITECT:

AECOM

CIVIL/STRUCTURAL ENGINEER:

AECOM

MEP ENGINEER:

AECOM

AGILE No.: 800-040043-001

PROJECT: ATHENA

TITLE: ARCHITECTURAL COVER SHEET

SCALE: DRAWING NO.: ATHENA-ACM-XX-XX-DR-A-0000 REV.: A



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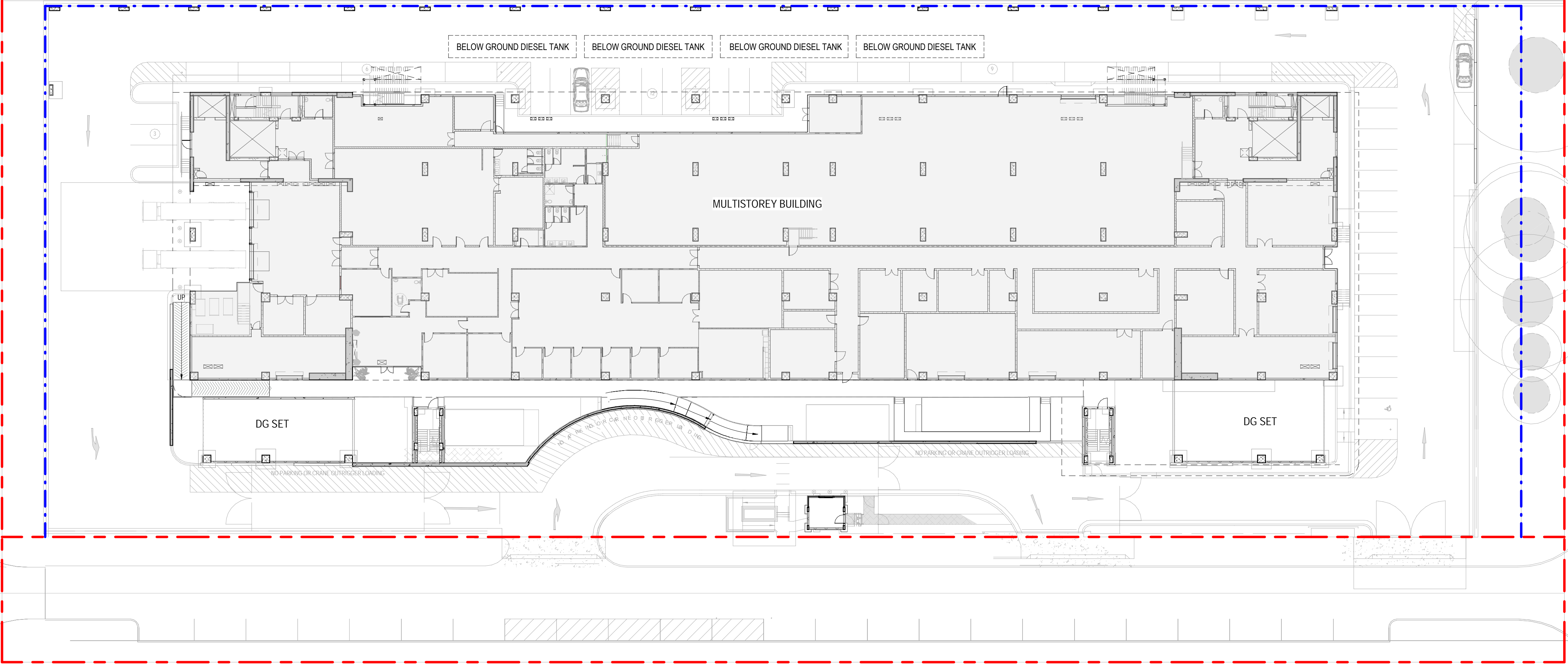
Approved Application No: SSD-10467

Granted on: 28 May 2021

Signed: JF Sheet No: 2 of 44

NOTES

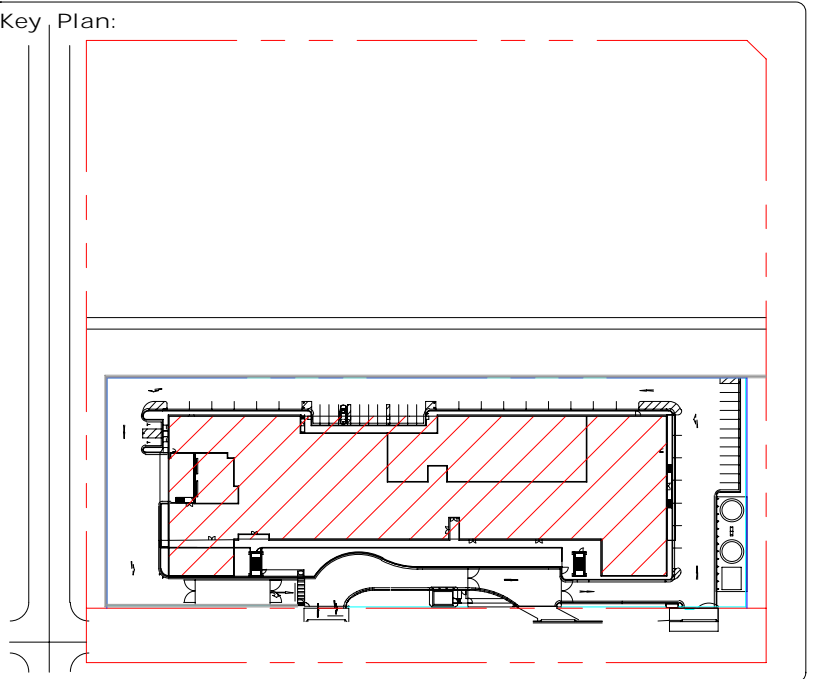
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1 SITE PLAN GROUND FLOOR LEVEL
scale1 : 300

DRAWING TO BE READ IN CONJUNCTION WITH CIVIL DRAWINGS

LEGEND	
SYMBOL	DESCRIPTION
	PLOT BOUNDARY
	LEASE LINE
	SLOPE



Project Status: 80% Design Development

Project No.: 60628128

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A	14.09.2020	ISSUED FOR INFORMATION	AB	JT	VA	DP

ARCHITECT:
AECOM

CIVIL/STRUCTURAL ENGINEER:
AECOM

MEP ENGINEER:
AECOM

AGILE No.: 800-040043-001

PROJECT: ATHENA

TITLE: SITE PLAN GROUND LEVEL

SCALE: As indicated	DRAWING NO.: ATHENA-ACM-XX-00-DR-A -0010	REV.: A
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THE CONTRACTOR MUST VERIFY IN FIELD (VIF) ALL DIMENSIONS AND CONDITIONS SHOWN ON THIS DRAWING PRIOR TO CONSTRUCTION.

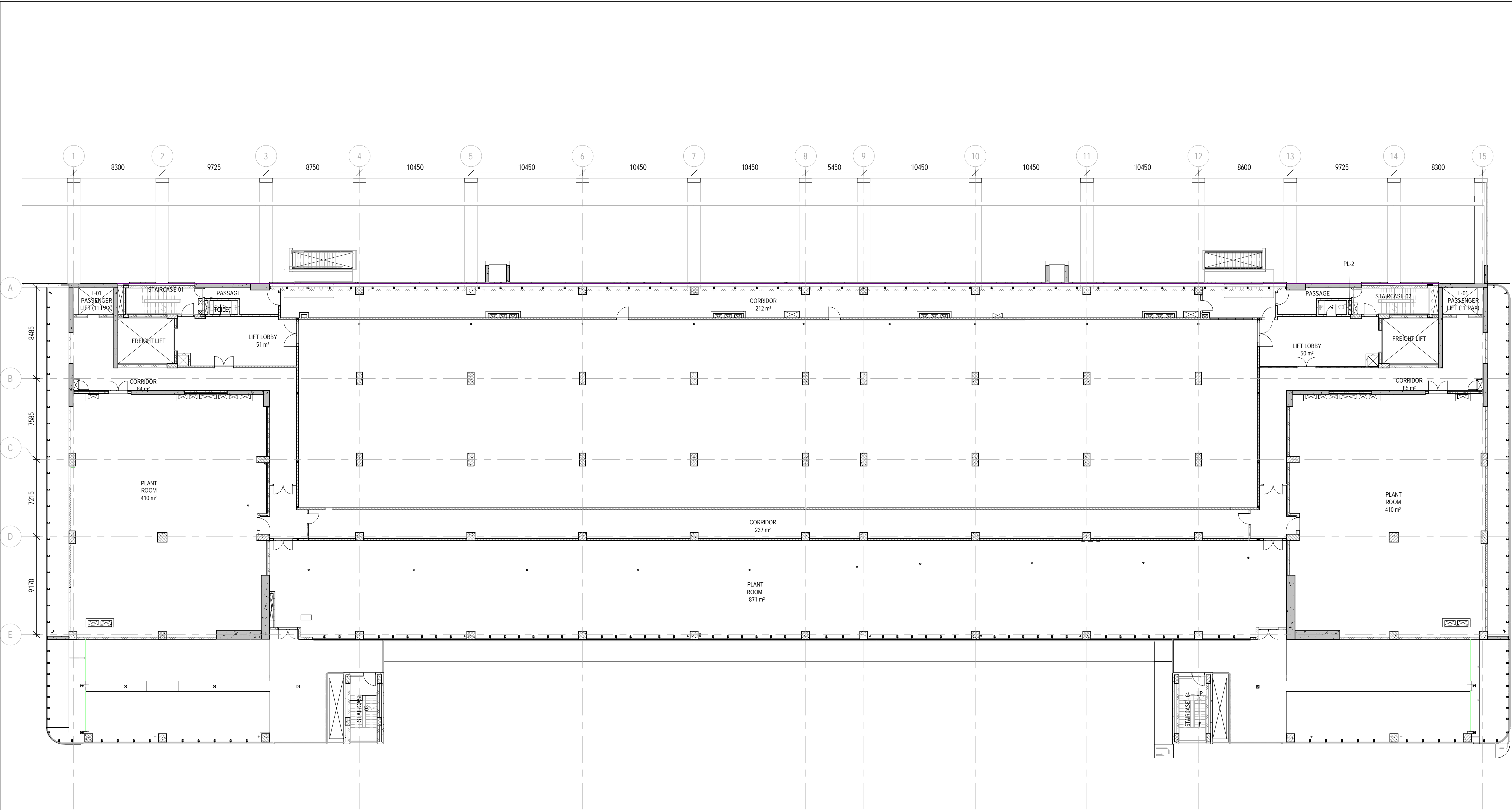


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1:200	ATHENA-ACM-XX-00-DR-A-2000	A
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A



1 LEVELS 1-4 OVERALL LAYOUT BBCS
scale 1 : 200



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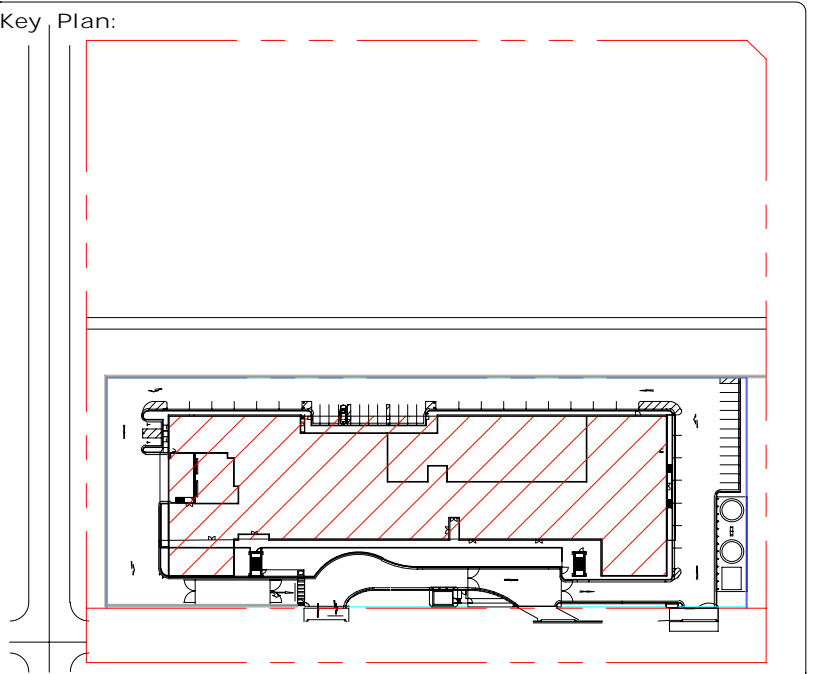
Approved Application No: SSD-10467

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NOTES

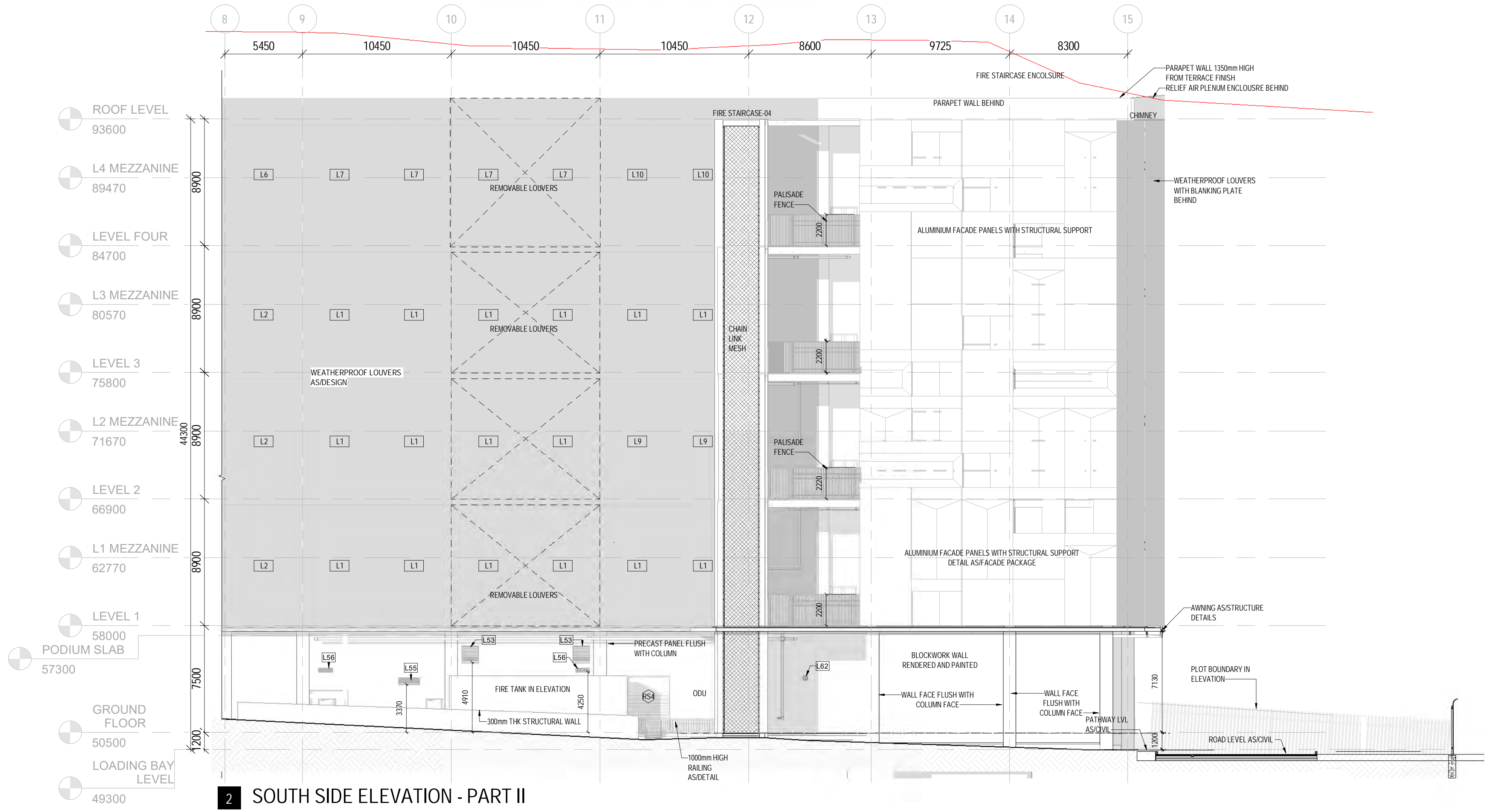
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Project Status:		80% Design Development				
Project No.:		60628128				
A	14.09.2020	ISSUED FOR INFORMATION	AB	JT	VA	DP
REV.	DATE	DESCRIPTION	DRWN	ENGR	CHK	APP'D
ARCHITECT:						
AECOM						
CIVIL/STRUCTURAL ENGINEER:						
AECOM						
MEP ENGINEER:						
AECOM						
AGILE No.:		800-040043-001				
PROJECT:		ATHENA				
TITLE:		LEVELS 1-4 OVERALL LAYOUT				
SCALE:		DRAWING NO.:		REV.:		
1 : 200		ATHENA-ACM-XX-01-DR-A- 2001		A		



1 SOUTH SIDE ELEVATION - PART I
scale 1 : 200



2 SOUTH SIDE ELEVATION - PART II
scale 1 : 200

NOTES

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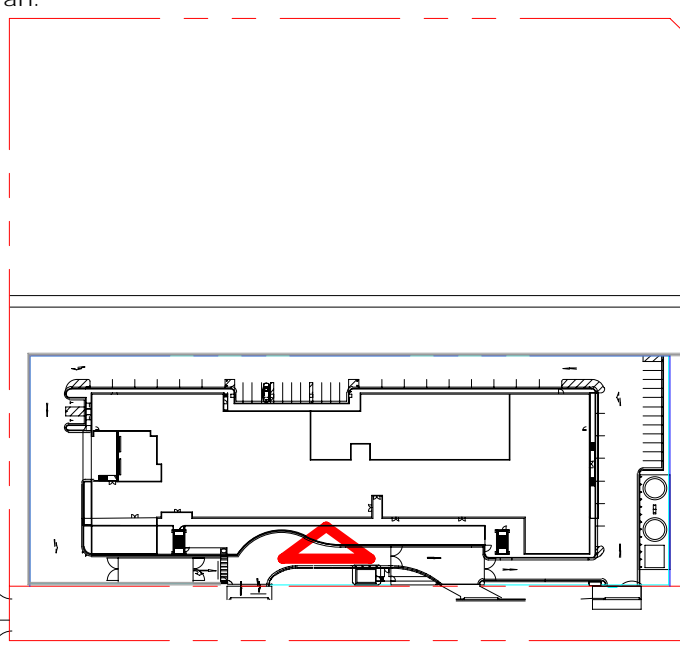
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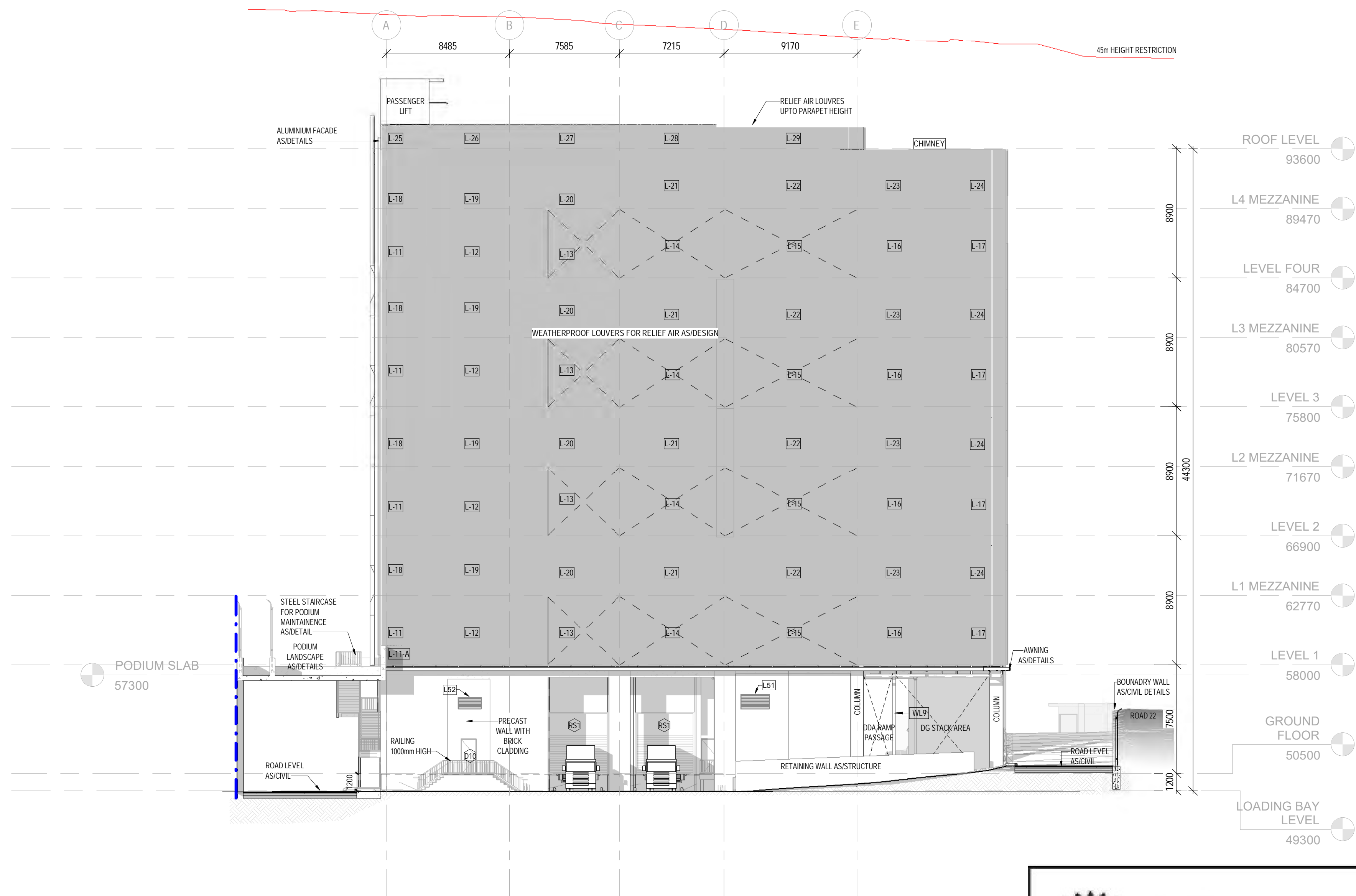
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THE RLS AND THE GROUND LINE ARE TO BE READ IN CONJUNCTION WITH CIVIL AND STRUCTURAL DOCUMENTS.

Key Plan:						
						
Project Status: 80% Design Development						
Project No.: 60628128						
A	14.09.2020	ISSUED FOR INFORMATION	AB	JT	VA	DP
REV.	DATE	DESCRIPTION	DRWN	ENGR	CHK	APP'D
ARCHITECT:						
AECOM						
CIVIL/STRUCTURAL ENGINEER:						
AECOM						
MEP ENGINEER:						
AECOM						
AGILE No.: 800-040043-001						
PROJECT: ATHENA						
TITLE: BUILDING ELEVATIONS- SOUTH SIDE						
SCALE: 1 : 200		DRAWING NO.: ATHENA-ACM-XX-XX-DR-A- 4000			REV.: A	



1 WEST SIDE ELEVATION
scale 1 : 200



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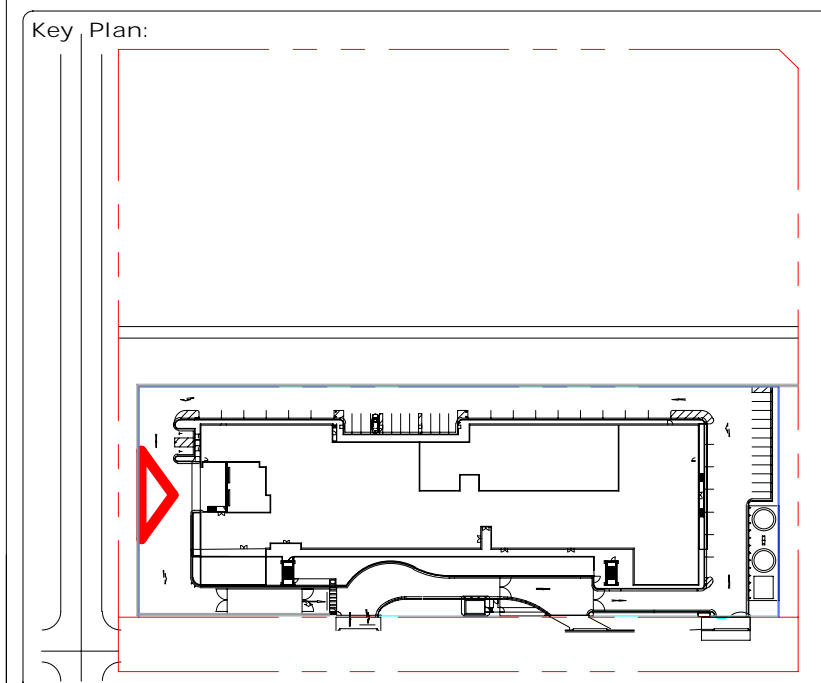
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Sheet No: 6 of 44

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ARCHITECT:
AECOM

CIVIL/STRUCTURAL ENGINEER:
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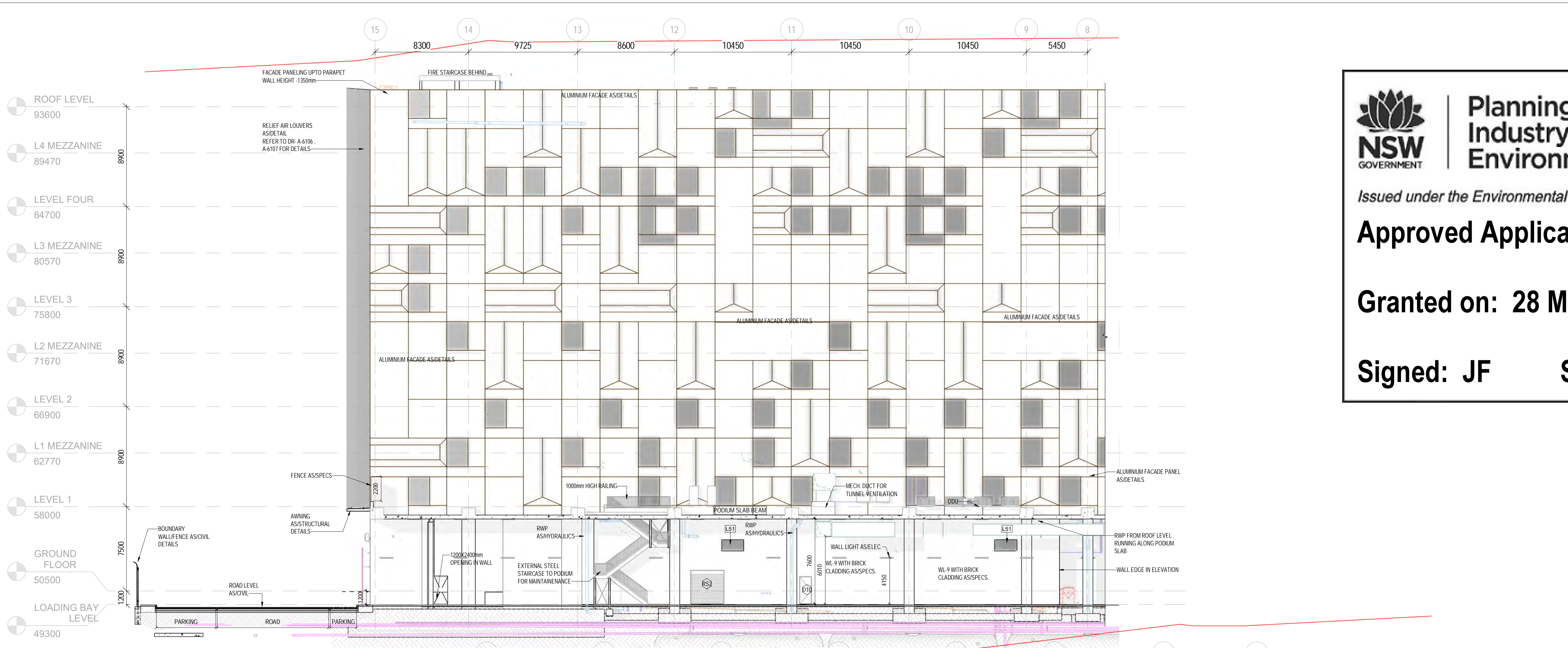
MEP ENGINEER:
AECOM

AGILE No.: 800-040043-001

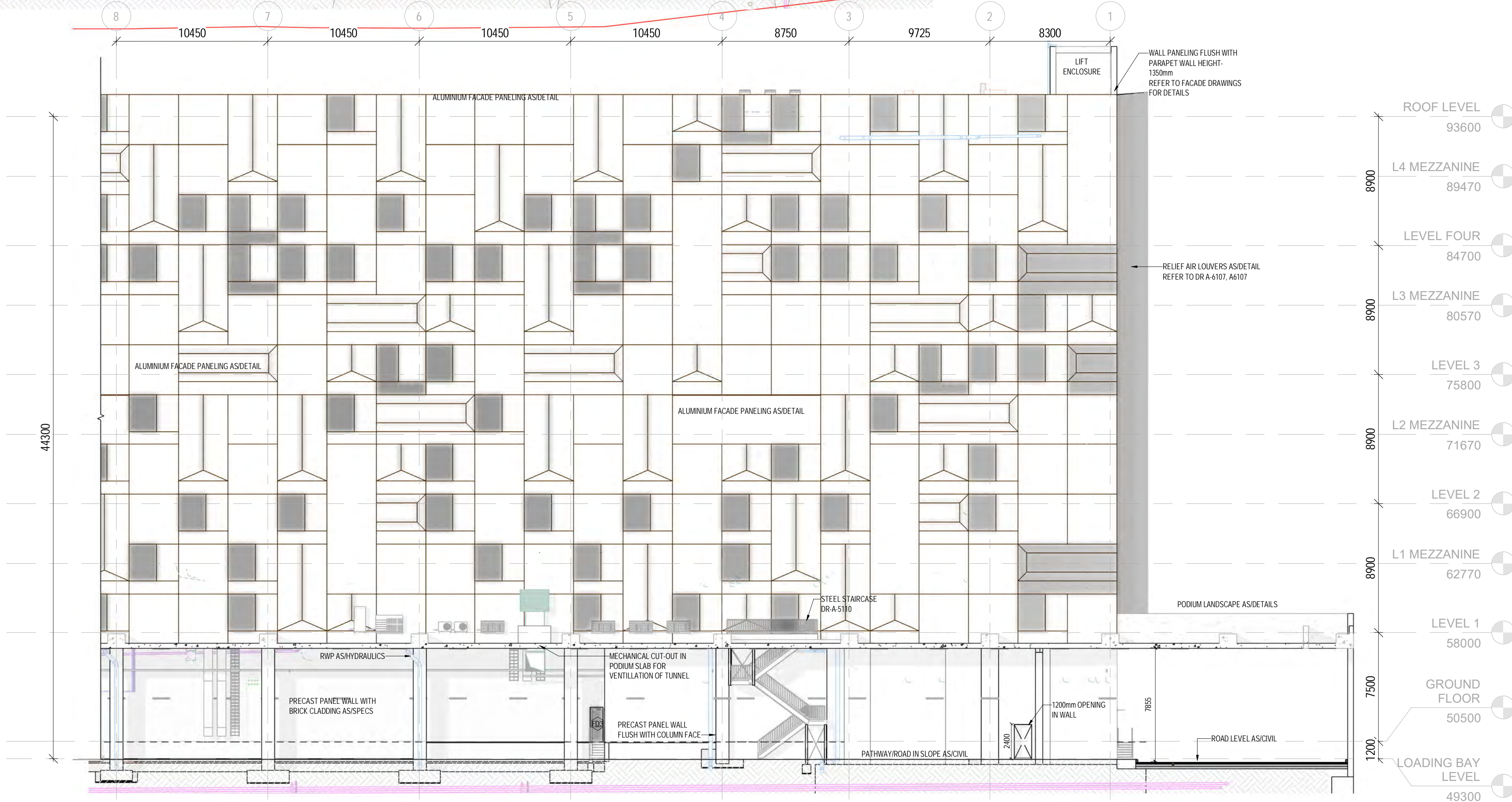
PROJECT: ATHENA

TITLE: BUILDING ELEVATIONS- WEST SIDE

SCALE: 1 : 200	DRAWING NO.: ATHENA-ACM-XX-XX-DR-A- 4001	REV.: A
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1 NORTH SIDE ELEVATION PART I
scale 1 : 200



2 NORTH SIDE ELEVATION PART II
scale 1 : 200

NOTES
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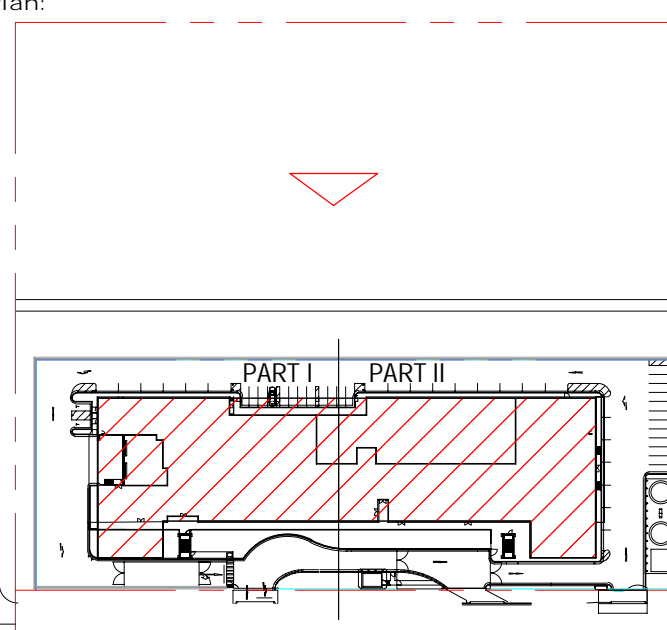
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Key Plan:



Project Status: 100% Construction Document

Project No.: 60628128

REV.	DATE	ISSUED FOR INFORMATION	DESCRIPTION	AB	JT	VA	DP
A	14.09.2020	ISSUED FOR INFORMATION		AB	JT	VA	DP

ARCHITECT:

AECOM

CIVIL/STRUCTURAL ENGINEER:

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MEP ENGINEER:

AECOM

AGILE No.: 800-040043-001

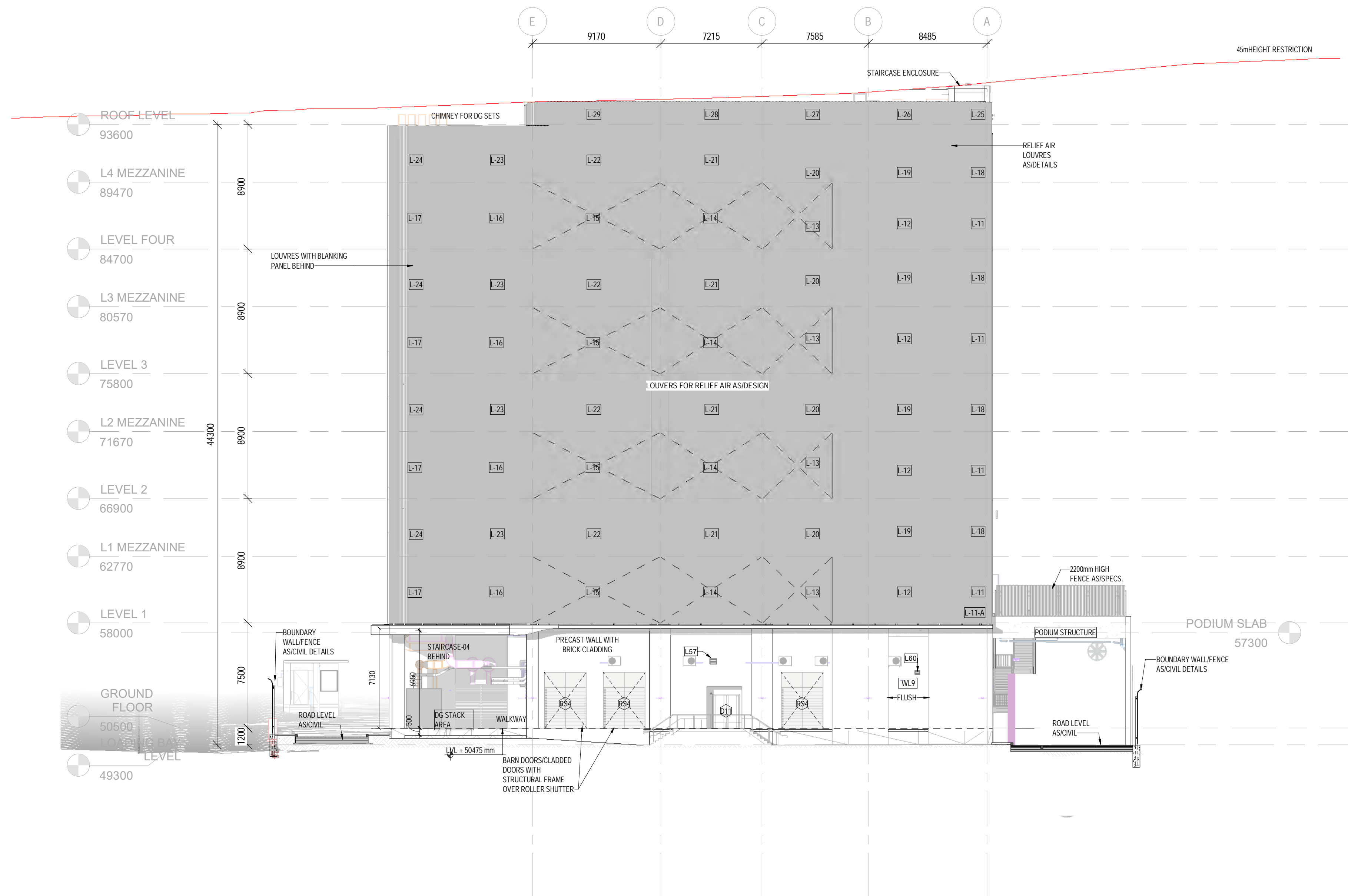
PROJECT: ATHENA

TITLE: ELEVATIONS - SHEET 3

SCALE: 1 : 200

DRAWING NO.: ATHENA-ACM-XX-XX-DR-A-4002

REV.: A



1 EAST SIDE ELEVATION



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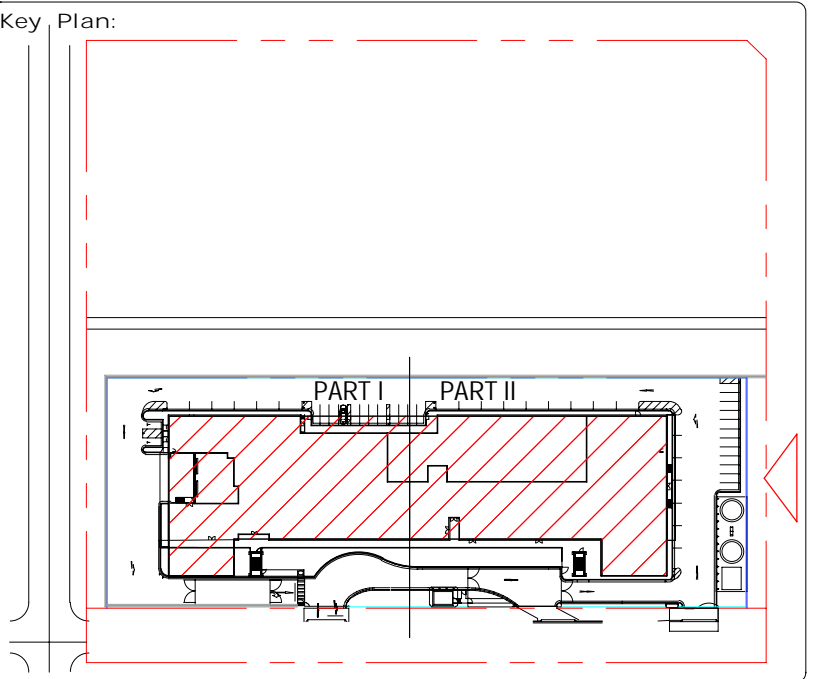
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ARCHITECT: **AECOM**

CIVIL/STRUCTURAL ENGINEER: **AECOM**

MEP ENGINEER: **AECOM**

AGILE No.: 800-040043-001

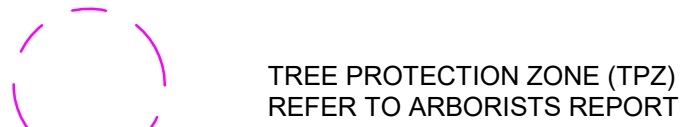
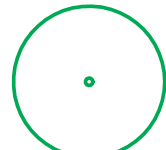
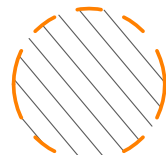
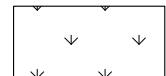
PROJECT: ATHENA

TITLE: ELEVATIONS - SHEET 4

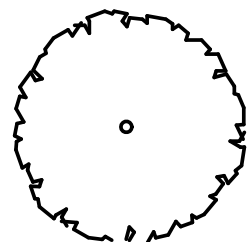
SCALE: 1 : 200	DRAWING NO.: ATHENA-ACM-XX-XX-DR-A-4003	REV.: A
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PLANTING

- SITE BOUNDARY
- LEASE BOUNDARY
- R1 - ROOT BARRIER

TREE PROTECTION ZONE (TPZ)
REFER TO ARBORISTS REPORTTREE TO BE RETAINED
REFER TO ARBORISTS REPORTSTRUCTURAL ROOT ZONE (SRZ)
REFER TO ARBORISTS REPORT

TURF



PROPOSED TREE PLANTING

INDIVIDUAL PLANTING

TREES						
Code	Botanical Name	Common Name	Mature Height x Spread (m)	Container Size	Spacing	QTY
GROUND LEVEL						
HAR pen	<i>Harpullia pendula</i>	Tulipwood	6 x 4m	200L	As Shown	
LEVEL 1						
CAL sal	<i>Callistemon salignus</i>	Willow Bottlebrush	5 x 3m ^	200L	As Shown	
COR cit	<i>Corymbia citriodora</i> 'Scentuous'	Dwarf Lemon Scented Gum	5 x 3m ^	200L	As Shown	
CUP ana	<i>Cupaniopsis anacardioides</i>	Tuckeroo	4 x 3m ^	200L	As Shown	
ELA ret	<i>Elaeocarpus reticulatus</i>	Blueberry Ash	4 x 2m ^	200L	As Shown	
GLO fer	<i>Glochidion ferdinandi</i>	Cheese Tree	4 x 3m ^	200L	As Shown	
MEL sty	<i>Melaleuca styphelioides</i>	Prickly-Leaved Paperbark	6 x 5m ^	200L	As Shown	
TRI lau	<i>Tristanopsis laurina</i>	Water Gum	5 x 3m ^	200L	As Shown	

^ Indicates estimated mature tree height for planting on podium (1.4m soil depth). Tree species would typically grow taller, and outcomes could vary

SHRUBS							
Key	Code	Botanical Name	Common Name	Mature Height x Spread (m)	Container Size	Density (per m2)	QTY
	ACA lim	<i>Acacia cognata</i> 'Limelight'	Limelight Acacia	1 x 1m	150mm	3/m²	
	COR ref	<i>Correa reflexa</i> 'Bellissima'	Bellissimo Correa	0.5 x 1m	150mm	3/m²	
	GRE bux	<i>Grevillea buxifolia</i>	Grey Spider Grevillea	1 x 1m	150mm	3/m²	
	GRE ser	<i>Grevillea sericea</i> 'Pink Midget'	Pink Midget Grevillea	0.4 x 0.5m	150mm	3/m²	
	WES mun	<i>Westringia fruticosa</i> 'Mundi'	Westringia Mundi	0.5 x 1.5m	150mm	3/m²	

GRASSES							
Key	Code	Botanical Name	Common Name	Mature Height x Spread (m)	Container Size	Density (per m2)	QTY
	DIA cae	<i>Dianella caerulea</i> 'Little Jess'	Blue Flax Lily	0.6 x 0.5m	Tube	5/m²	
	LOM tan	<i>Lomandra 'Tanika'</i>	Tankia Lomandra	0.5 x 0.8m	Tube	5/m²	
	POA kin	<i>Poa 'Kingsdale'</i>	Kingsdale Poa	0.6 x 0.5m	Tube	5/m³	

GROUNDCOVERS							
Key	Code	Botanical Name	Common Name	Mature Height x Spread (m)	Container Size	Density (per m2)	QTY
	BAN rol	<i>Banksia integrifolia</i> 'Roller Coaster'	Roller Coaster Banksia	0.15 x 3m	150mm	3/m²	
	GOO gol	<i>Goodenia ovata</i> 'Gold Cover'	Gold Cover Goodenia	0.2 x 1.5m	150mm	3/m²	
	GRE bro	<i>Grevillea 'Bronze Rambler'</i>	Grevillea 'Bronze Rambler'	0.3 x 3m	150mm	2/m²	
	GRE tam	<i>Grevillea lanigera</i> 'Mt Tamboritha'	Grevillea 'Mt Tamboritha'	0.3 x 1.5m	150mm	3/m²	
	HAR vio	<i>Hardenbergia violacea</i> 'Carpet Royale'	Carpet Royale Hardenbergia	0.2 x 1.5	150mm	3/m²	
	SCA mau	<i>Scaevola albida</i> 'Mauvé Carpet'	Mauve Carpet Fan Flower	0.2m	150mm	3/m²	
	VIO hed	<i>Viola hederacea</i>	Native Violet	0.1 x 0.3m	150mm	8/m²	

PLANT MIXES

PLANT MIX 1 - ENTRANCE							
Key	Code	Botanical Name	Common Name	Mature Height x Spread (m)	Container Size	Percentage	Density (per m2)
	Shrubs						
	GRE ser	<i>Grevillea sericea</i> 'Pink Midget'	Pink Midget Grevillea	0.4 x 0.5m	150mm	15%	3/m²
	LEP pin	<i>Leptospermum</i> 'Pink Cascade'	Pink Cascade Tea Tree	0.8 x 1m	150mm	10%	3/m²
	WES mun	<i>Westringia fruticosa</i> 'Mundi'	Westringia Mundi	0.5 x 1.5m	150mm	10%	3/m²
	Grasses and Groundcovers						
	BAN rol	<i>Banksia integrifolia</i> 'Roller Coaster'	Roller Coaster Banksia	0.15 x 3m	150mm	15%	3/m²
	DIA cae	<i>Dianella caerulea</i> 'Little Jess'	Blue Flax Lily	0.6 x 0.5m	Tube	25%	5/m²
	LOM cyl	<i>Lomandra cylindrica</i> 'Lime Wave'	Lime Wave Mat-Rush	0.4 x 0.5m	Tube	25%	5/m²

PLANT MIX 2 - EDGE							
Code	Code	Botanical Name	Common Name	Mature Height x Spread (m)	Container Size	Percentage	Density (per m2)
	Grasses						
	DIA cae	<i>Dianella caerulea</i> 'Little Jess'	Blue Flax Lily	0.6 x 0.5m	Tube	10%	5/m²
	IMP cyl	<i>Imperata cylindrica</i> 'Yalba'	Blady Grass	1 x 0.4m	Tube	20%	5/m²
	THE aus	<i>Themeda australis</i>	Kangaroo Grass	0.7 x 0.5m	Tube	15%	5/m²
	Groundcovers + Climbers						
	GRE tam	<i>Grevillea lanigera</i> 'Mt Tamboritha'	Grevillea 'Mt Tamboritha'	0.3 x 1.5m	TBC	15%	3/m³
	HAR vio	<i>Hardenbergia violacea</i>	Purple Coral Pea	0.2 x 1m	TBC	20%	3/m²
	BAN rol	<i>Banksia integrifolia</i> 'Roller Coaster'	Roller Coaster Banksia	0.15 x 3m	150mm	20%	3/m²

PLANT MIX 3 - EDGE							
Key	Code	Botanical Name	Common Name	Mature Height x Spread (m)	Container Size	Percentage	Density (per m2)
	Grasses						
	LOM lon	<i>Lomandra longifolia</i>	Spiny Head Mat-Rush	1 x 1m	Tube	15%	4/m²
	LOM cyl	<i>Lomandra cylindrica</i> 'Lime Wave'	Lime Wave Mat-Rush	0.4 x 0.5m	Tube	15%	5/m²
	POA kin	<i>Poa 'Kingsdale'</i>	Kingsdale Poa	0.6 x 0.5m	Tube	15%	5/m²
	Groundcovers + Climbers						
	GRE bro	<i>Grevillea 'Bronze Rambler'</i>	Grevillea 'Bronze Rambler'	0.3 x 3m	TBC	30%	3/m³
	SCA mau	<i>Scaevola albida</i> 'Mauve Carpet'	Mauve Carpet Fan Flower	0.2m	150mm	25%	3/m²

PLANT MIX 4 - CENTRAL							
Key	Code	Botanical Name	Common Name	Mature Height x Spread (m)	Container Size	Percentage	Density (per m2)
	Shrubs						
	GRE ser	<i>Grevillea sericea</i>	Silky Grevillea	1 x 1m	150mm	30%	2/m²
	LEP pin	<i>Leptospermum</i> 'Pink Cascade'	Pink Cascade Tea Tree	0.8 x 1m	150mm	25%	3/m²
	OZO dio	<i>Ozothamnus diosmifolius</i> 'Radiance'	Rice Flower	1 x 1m	150mm	20%	3/m²
	Grasses						
	LOM lon	<i>Lomandra longifolia</i>	Spiny Head Mat-Rush	1 x 1m	Tube	15%	4/m²
	THE aus	<i>Themeda australis</i>	Kangaroo Grass	0.7 x 0.5m	Tube	10%	5/m²

PLANT MIX 5 - CENTRAL							
Key	Code	Botanical Name	Common Name	Mature Height x Spread (m)	Container Size	Percentage	Density (per m2)
	Shrubs						
	GRE bux	<i>Grevillea buxifolia</i>	Grey Spider Grevillea	1 x 1m	150mm	30%	3/m³
	PHI pro	<i>Philotheca myoporoides</i> 'Profusion'	Wax Flower	1 x 1m	150mm	20%	3/m²
	WES mun	<i>Westringia fruticosa</i> 'Mundi'	Westringia Mundi	0.5 x 1.5m	150mm	15%	3/m²
	Grasses						
	DIA cae	<i>Dianella caerulea</i> 'Little Jess'	Blue Flax Lily	0.6 x 0.5m	Tube	15%	5/m²
	LOM cyl	<i>Lomandra cylindrica</i> 'Lime Wave'	Lime Wave Mat-Rush	0.4 x 0.5m	Tube	20%	5/m²

PLANT MIX 6 - GRASSES							
Key	Code	Botanical Name	Common Name	Mature Height x Spread (m)	Container Size	Percentage	Density (per m2)
	Grasses						
	DIA cae	<i>Dianella caerulea</i> 'Little Jess'	Blue Flax Lily	0.6 x 0.5m	Tube	30%	5/m²
	LOM cyl	<i>Lomandra cylindrica</i> 'Lime Wave'	Lime Wave Mat-Rush	0.4 x 0.5m	Tube	30%	5/m²
	IMP cyl	<i>Imperata cylindrica</i> 'Yalba'	Blady Grass	1 x 0.4m	Tube	20%	5/m²
	POA kin	<i>Poa 'Kingsdale'</i>	Kingsdale Poa	0.6 x 0.5m	Tube	20%	5/m²

NOTES

- Shrub planting to planted in groups of 3, 5 and 8 of the same species
- All species installed must be as per the above schedule. Any variations from this schedule must be approved in writing prior to installation.
- Should incorrect species be installed without approval, the contractor will be responsible for replacement.

FINAL PLANT QUANTITIES TO BE COORDINATED FOR 100%

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Granted on: 28 May 2021

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Sheet No: 9 of 44

NOTES

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SAFETY IN DESIGN INFORMATION

SAFETY IN DESIGN ISSUES HAVE BEEN ASSESSED AS PART OF THE DESIGN PROCESS. ALL REASONABLE STEPS HAVE BEEN TAKEN TO ENSURE HAZARDS AND RISKS NORMALLY ASSOCIATED WITH THIS TYPE OF DESIGN HAVE BEEN MITIGATED AND/OR COMMUNICATED. RESIDUAL HAZARDS AND RISKS AND/OR HAZARDS AND RISKS NOT NORMALLY ASSOCIATED WITH THIS TYPE OF WORK WHICH MAY REQUIRE SUBSEQUENT CONSIDERATION AND/OR ACTION ARE DESCRIBED IN -

ATHENA SID Register

Key Plan:

Project Status:

80% DESIGN DEVELOPMENT

Project No.:

60628128

B	23-OCT-2020	80% DESIGN DEVELOPMENT ISSUE	CL			JB	DP
A	16-OCT-2020	80% DESIGN DEVELOPMENT ISSUE	CL			JB	DP
REV.	DATE	DESCRIPTION	DRWN	ENGR	CHK	APP	D

ARCHITECT:

AECOM

CIVIL/STRUCTURAL ENGINEER:

AECOM

MEP ENGINEER:

AECOM

AGILE No.:

PROJECT:

ATHENA

TITLE:

LANDSCAPE LEGEND AND PLANT SCHEDULE

SCALE:

1 : 100

DRAWING No.:

ATHENA-ACM-XX-XX-DR-B-8000

REV.:

B



Approved Application No: SSD-10467

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A	16-OCT-2020	80% DESIGN DEVELOPMENT ISSUE	CL		JB	DP
REV.	DATE	DESCRIPTION	DRWN	ENGR	CHK	APP'D

ARCHITECT:

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MEP ENGINEER:

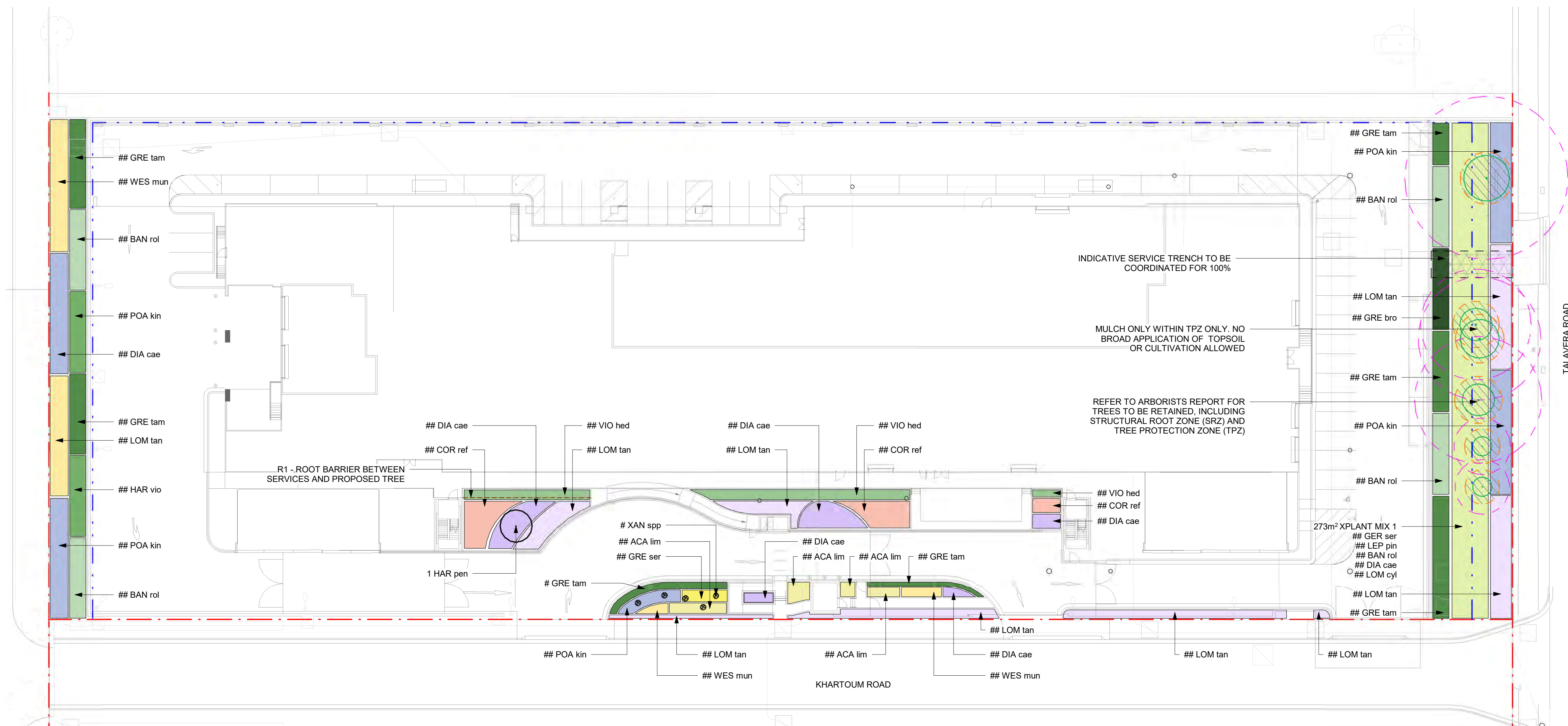


AGILE No.:

PROJECT:	ATHENA
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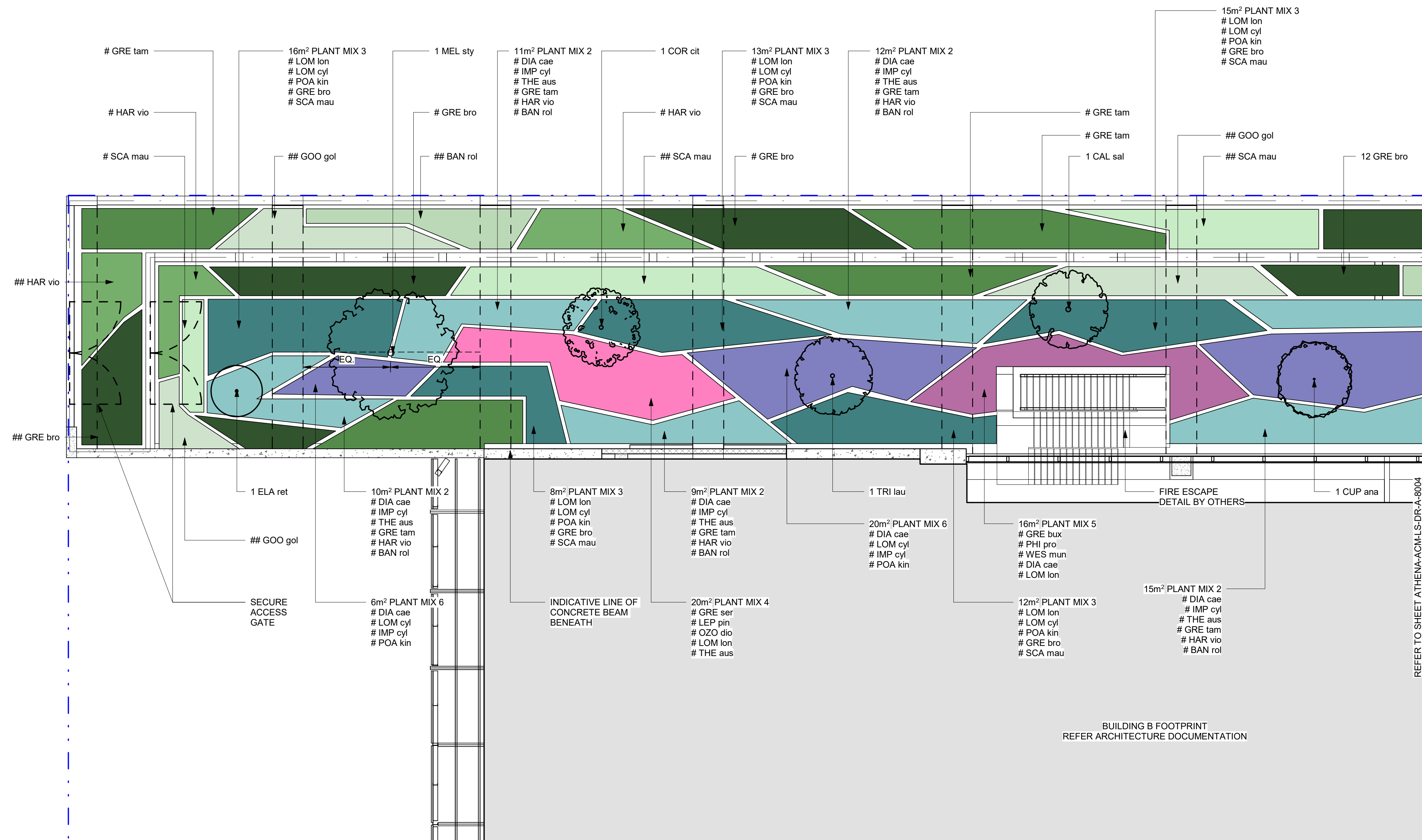
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SCALE: 1 : 300	DRAWING NO.: ATHENA-ACM-XX-XX-DR-B-8001	REV.: B
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1 GROUND FLOOR

scale1 : 300



EDGE PLANTING
- PLANT MIX 2 & 3

CENTRAL PLANTING
- PLANT MIX 4 & 5

GRASSES
- PLANT MIX 6

NOTES

THE CONTRACTOR MUST VERIFY IN FIELD (VIF) ALL DIMENSIONS AND CONDITIONS SHOWN ON THIS DRAWING PRIOR TO CONSTRUCTION.

SAFETY IN DESIGN INFORMATION

SAFETY IN DESIGN ISSUES HAVE BEEN ASSESSED AS PART OF THE DESIGN PROCESS. ALL REASONABLE STEPS HAVE BEEN TAKEN TO ENSURE HAZARDS AND RISKS NORMALLY ASSOCIATED WITH THIS TYPE OF DESIGN HAVE BEEN MITIGATED AND/OR COMMUNICATED. RESIDUAL HAZARDS AND RISKS AND/OR HAZARDS AND RISKS NOT NORMALLY ASSOCIATED WITH THIS TYPE OF WORK WHICH MAY REQUIRE SUBSEQUENT CONSIDERATION AND/OR ACTION ARE DESCRIBED IN -

ATHENA SID Register

Key Plan:

Project Status:

80% DESIGN DEVELOPMENT

Project No.:

60628128

REV.	DATE	DESCRIPTION	DRWN	ENGR	CHK	APP'D
A	23-OCT-2020	80% DESIGN DEVELOPMENT ISSUE	CL		JB	DP
A	16-OCT-2020	80% DESIGN DEVELOPMENT ISSUE	CL		JB	DP

ARCHITECT:

AECOM

CIVIL/STRUCTURAL ENGINEER:

AECOM

MEP ENGINEER:

AECOM

AGILE No.:

PROJECT:

ATHENA

TITLE:

LANDSCAPE PLAN - LEVEL 1 - SHEET 1

SCALE:

1 : 100

DRAWING NO.:

ATHENA-ACM-XX-XX-DR-A-8002

REV.:

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Planning,
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Environment

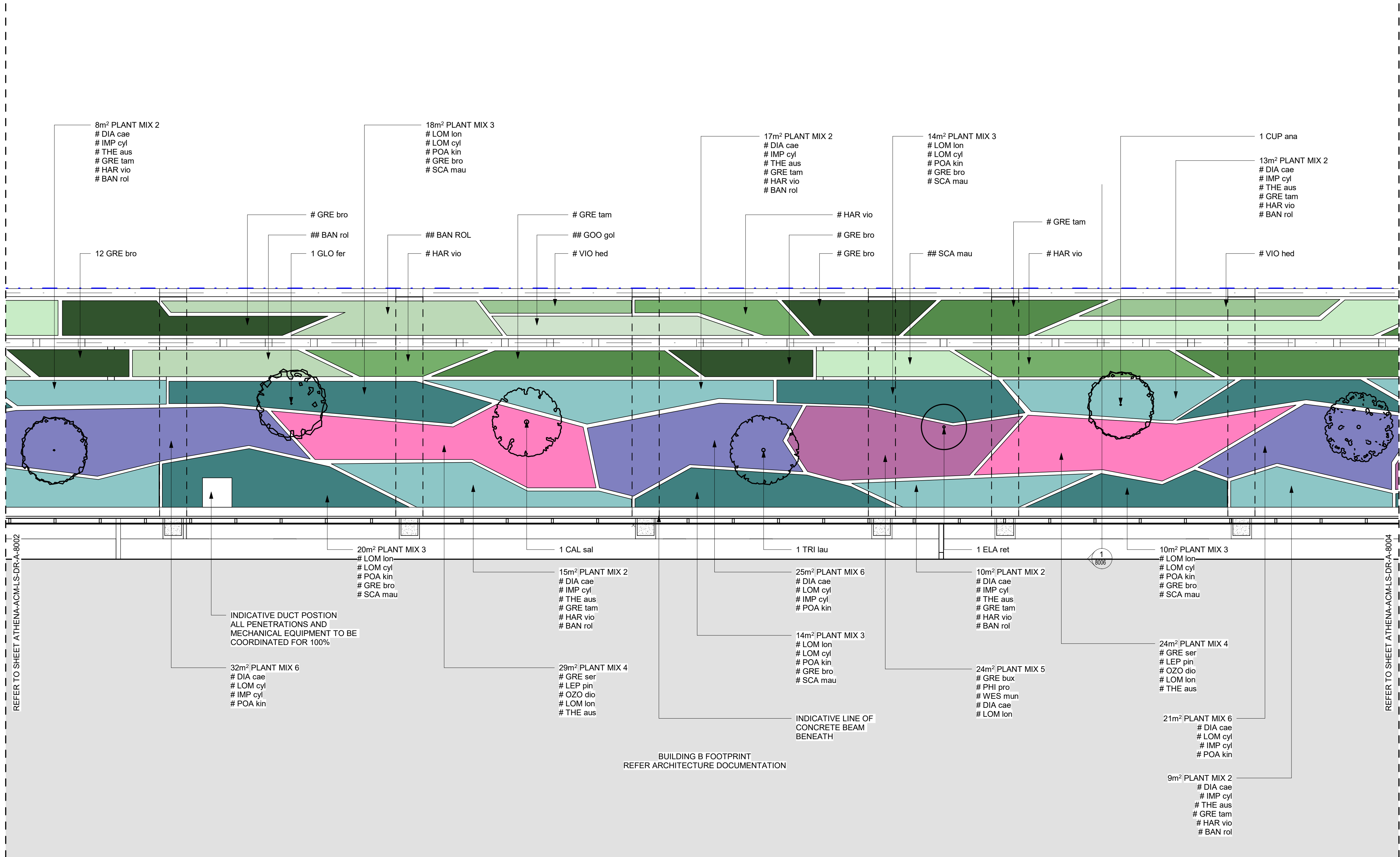
Issued under the Environmental Planning and Assessment Act 1979

Approved Application No: SSD-10467

Granted on: 28 May 2021

Signed: JF

Sheet No: 11 of 44



1 LEVEL 1 - SHEET 2

scale 1 : 100



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Approved Application No: SSD-10467

Granted on: 28 May 2021

Signed: JF

Sheet No: 12 of 44

NOTES

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ATHENA SID Register

Key Plan:

Project Status: 80% DESIGN DEVELOPMENT

Project No.: 60628128

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ARCHITECT:

AECOM

CIVIL/STRUCTURAL ENGINEER:

AECOM

MEP ENGINEER:

AECOM

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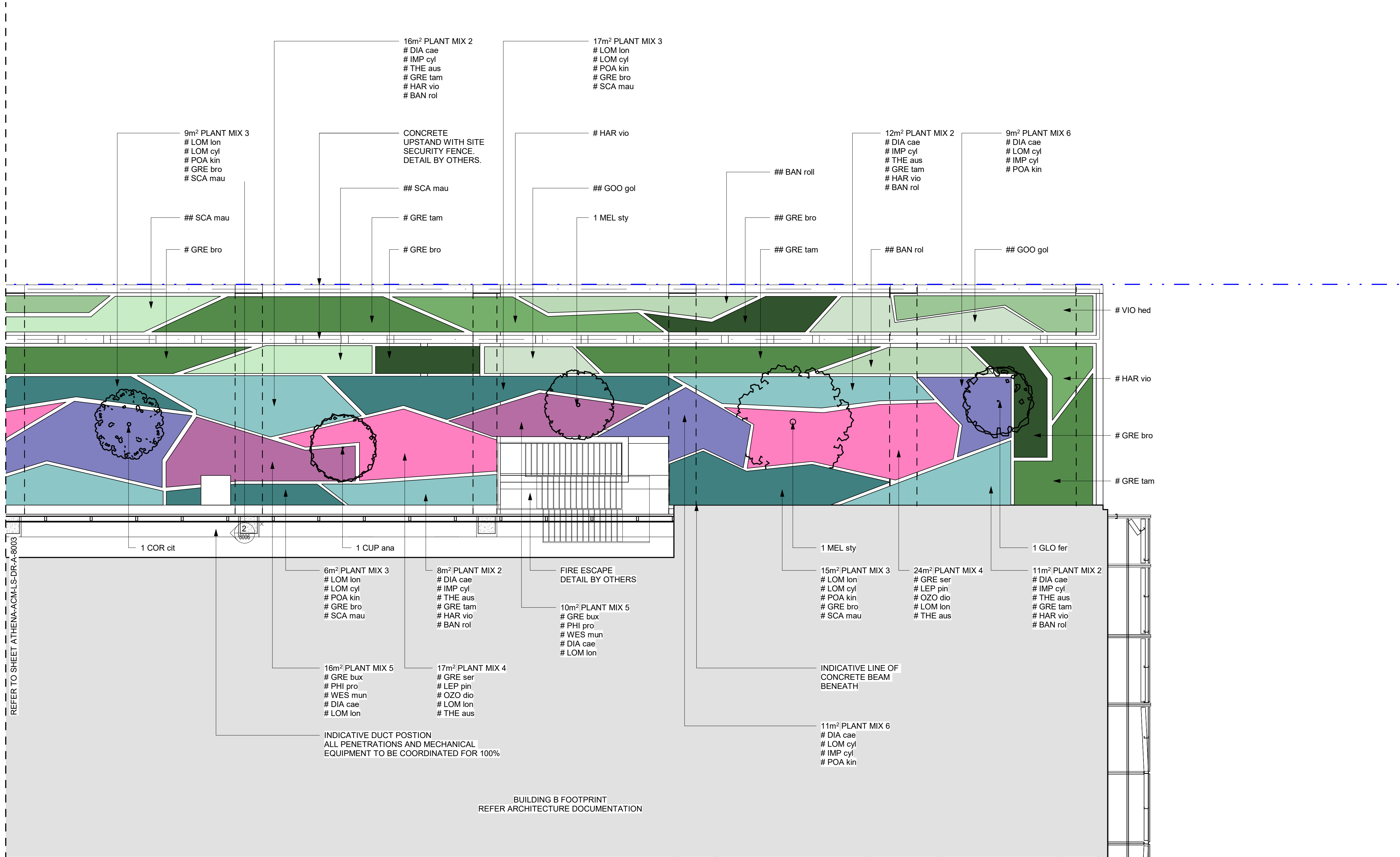
PROJECT: ATHENA

TITLE: LANDSCAPE PLAN - LEVEL 1 - SHEET 2

SCALE:
1 : 100

DRAWING NO.:
ATHENA-ACM-XX-XX-DR-A-8003

REV.:
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1 LEVEL 1 - SHEET 3

scale 1 : 100



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Approved Application No: SSD-10467

Granted on: 28 May 2021

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Sheet No: 13 of 44

NOTES

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EDGE PLANTING
- PLANT MIX 2 & 3

CENTRAL PLANTING
- PLANT MIX 4 & 5

GRASSES
- PLANT MIX 6

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Project No.: 60628128

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ARCHITECT:

AECOM

CIVIL/STRUCTURAL ENGINEER:

AECOM

MEP ENGINEER:

AECOM

AGILE No.:

PROJECT:

ATHENA

TITLE:

LANDSCAPE PLAN - LEVEL 1 - SHEET 3

SCALE:

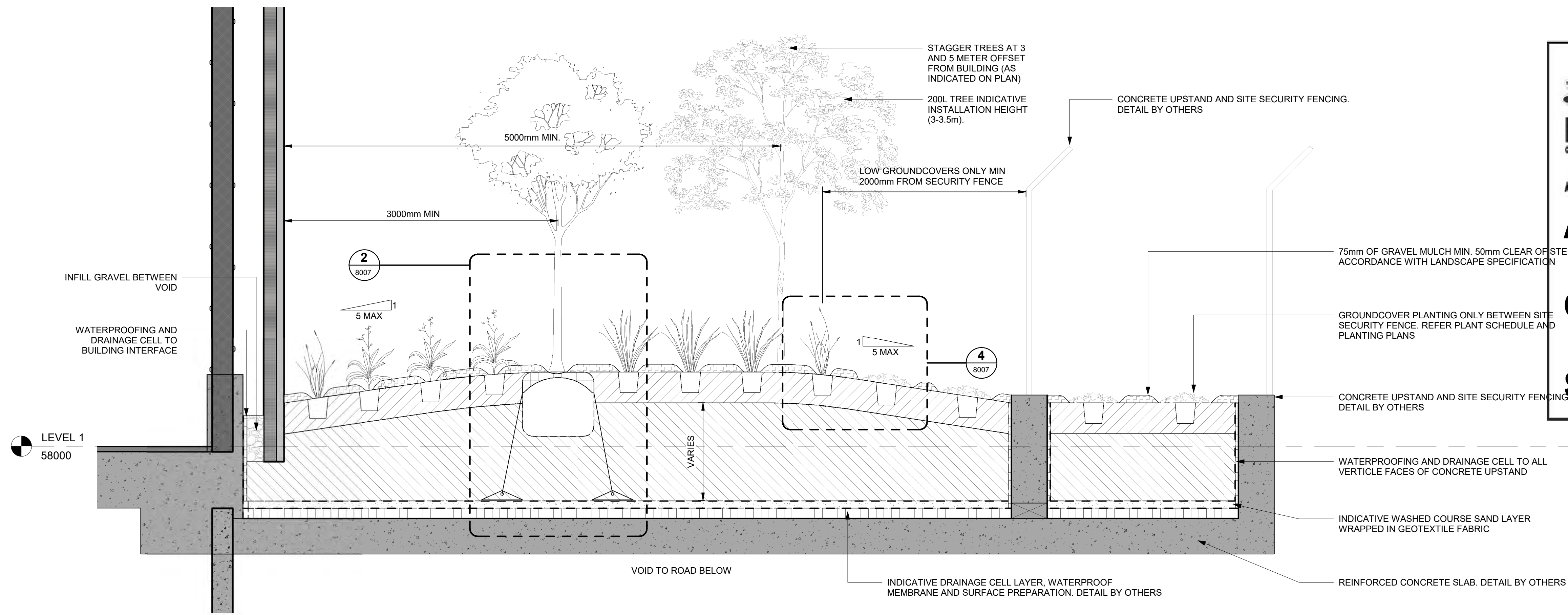
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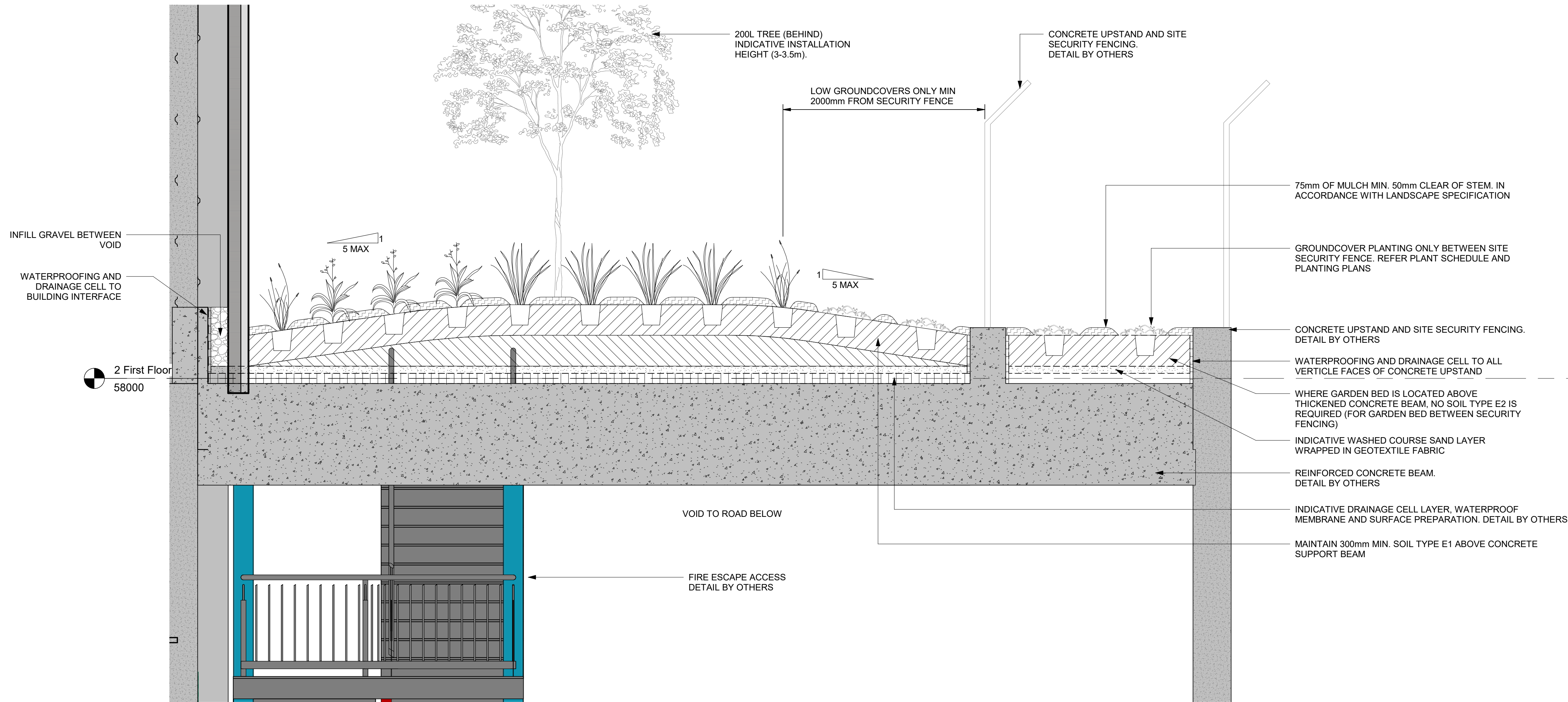
ATHENA-ACM-XX-XX-DR-A-8004

REV.:

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1 PODIUM GARDEN BED - TYPICAL SECTION
scale 1 : 25



2 PODIUM GARDEN BED OVER BEAM - TYPICAL SECTION
scale 1 : 25

NOTES

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Sheet No: 14 of 44

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80% DESIGN DEVELOPMENT

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ARCHITECT:

AECOM

CIVIL/STRUCTURAL ENGINEER:

AECOM

MEP ENGINEER:

AECOM

AGILE No.:

PROJECT:

ATHENA

TITLE:

LANDSCAPE SECTIONS - SHEET 1

SCALE:

1 : 25

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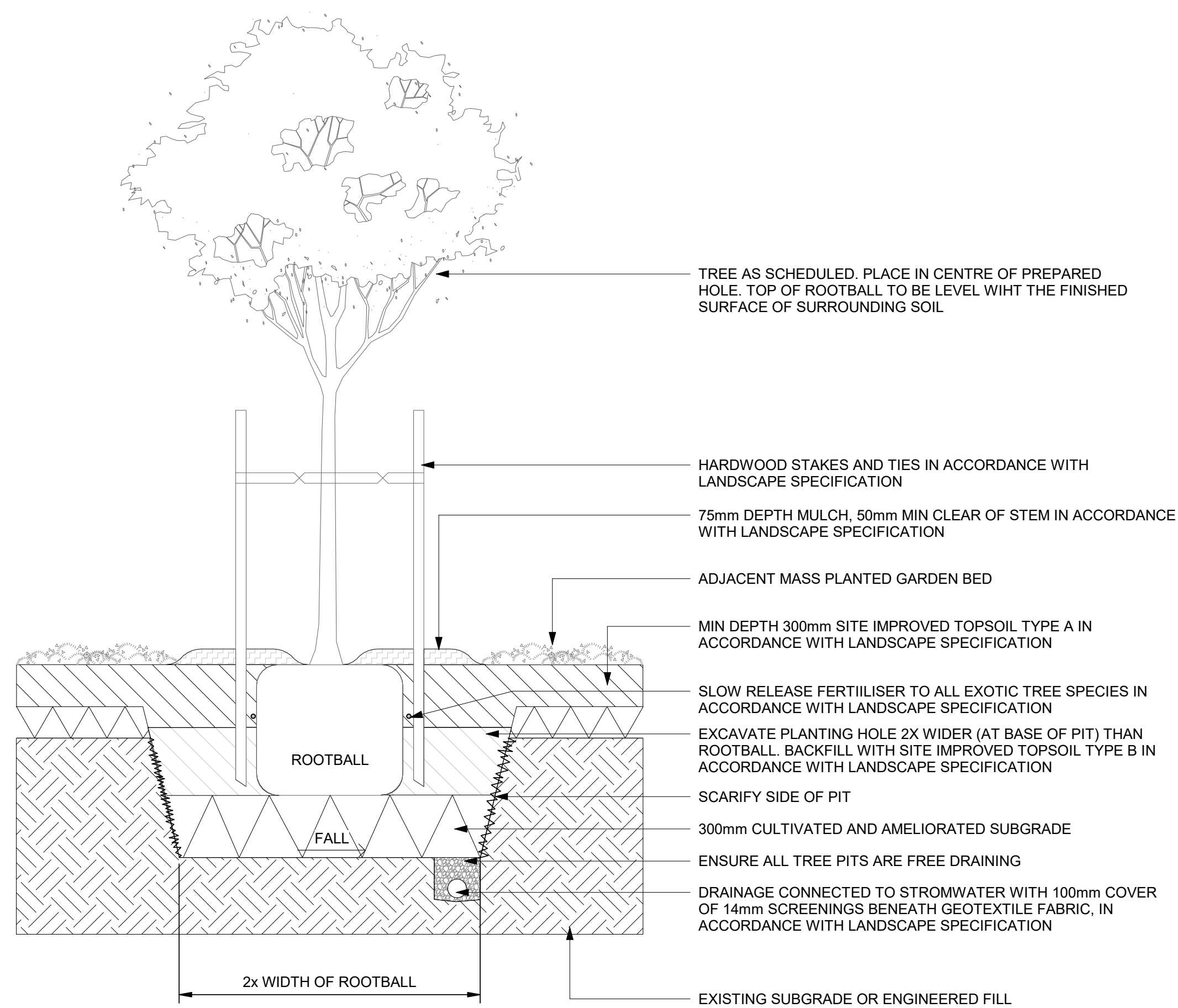
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REV.:

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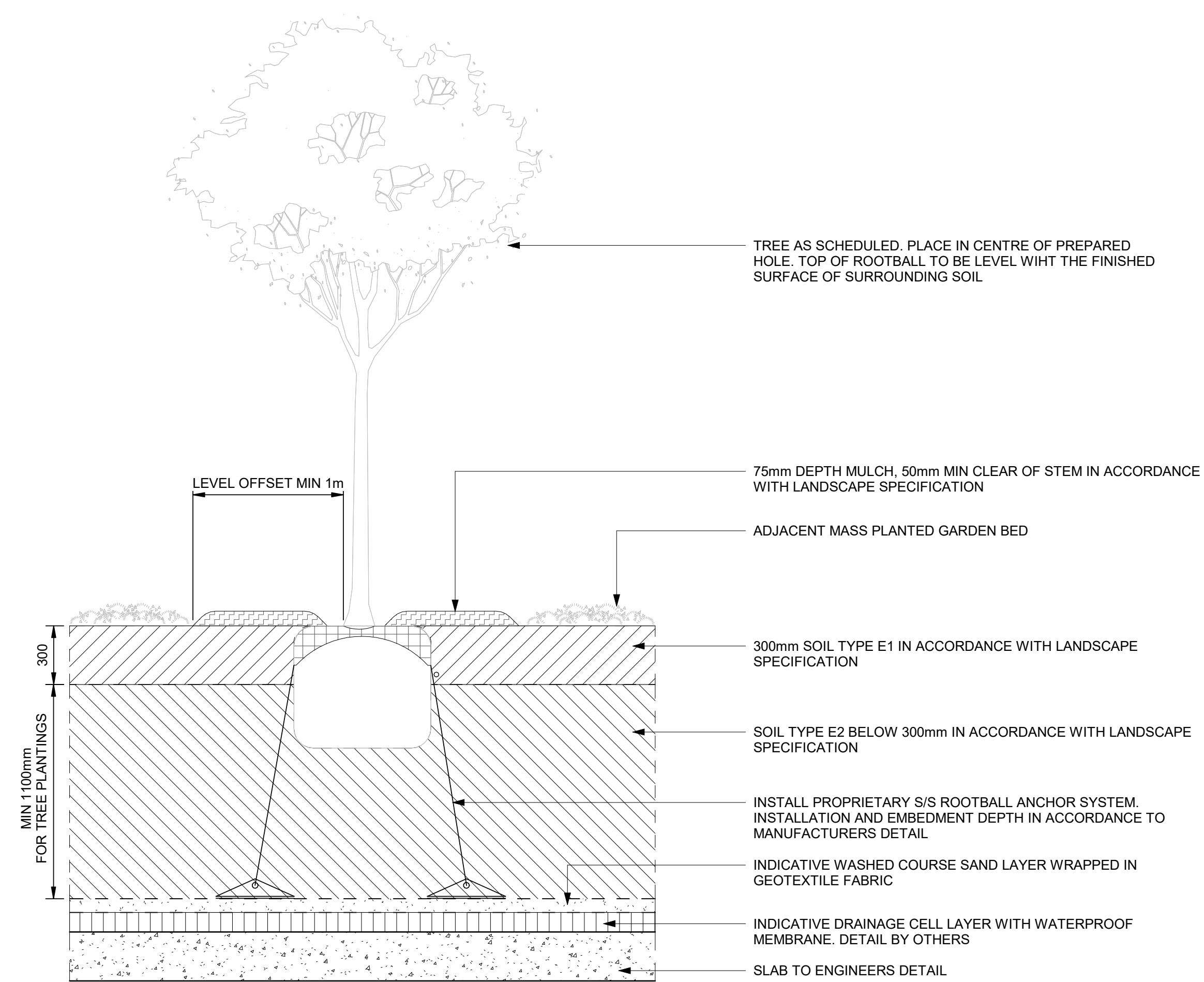
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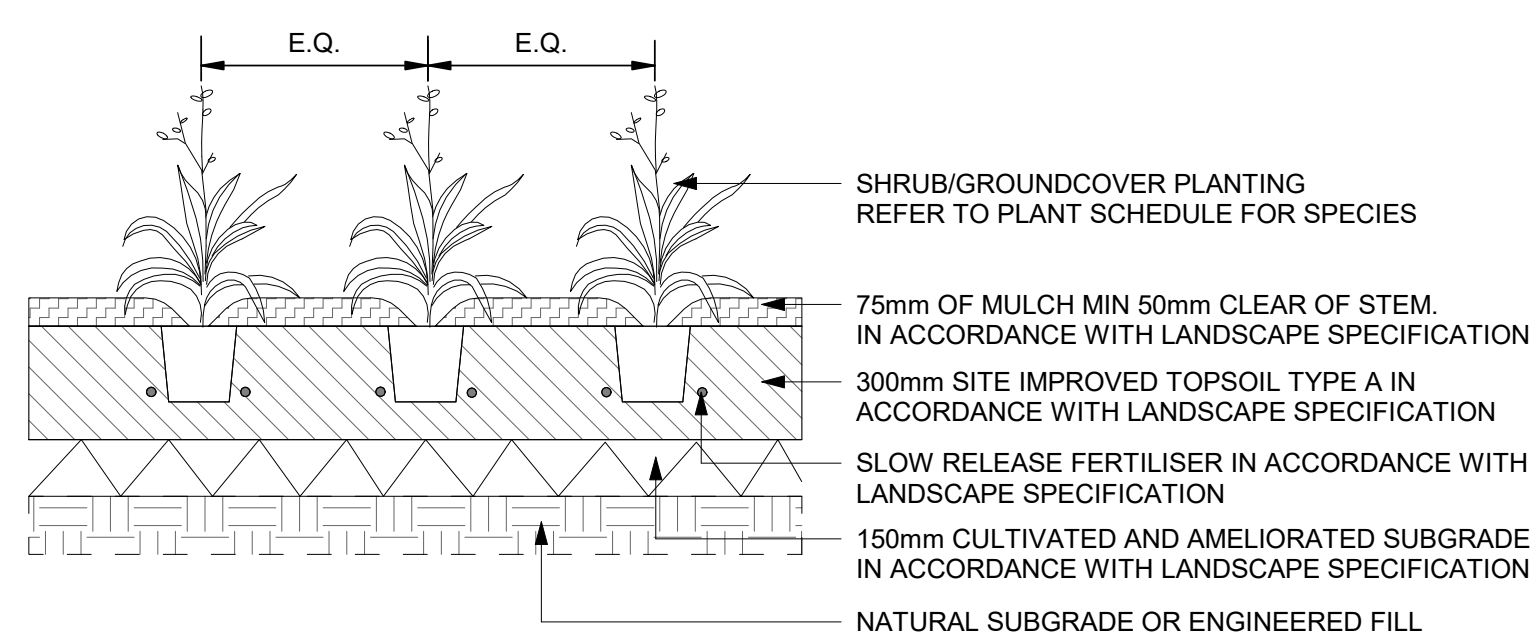
1 TYPICAL TREE PLANTING - NATURAL GROUND

scale 1 : 20



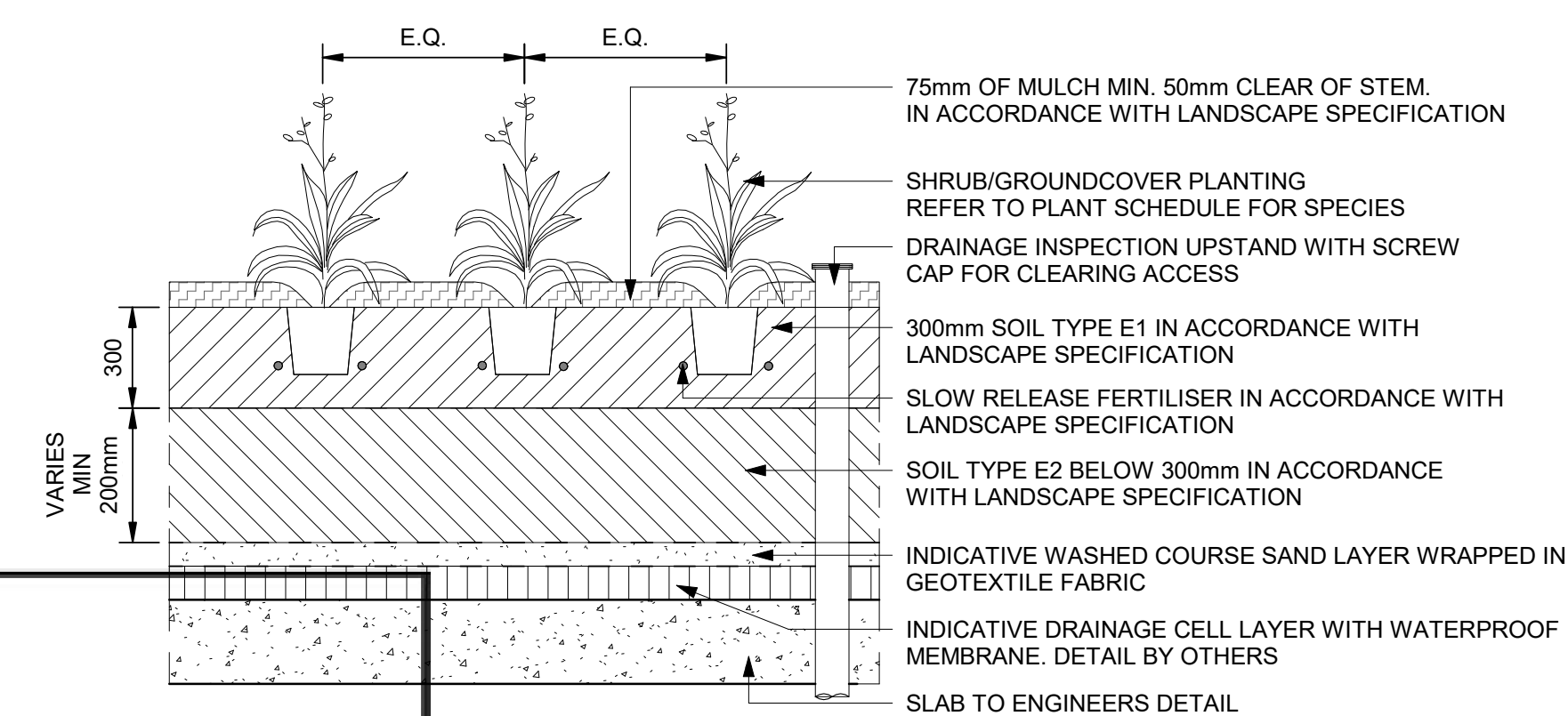
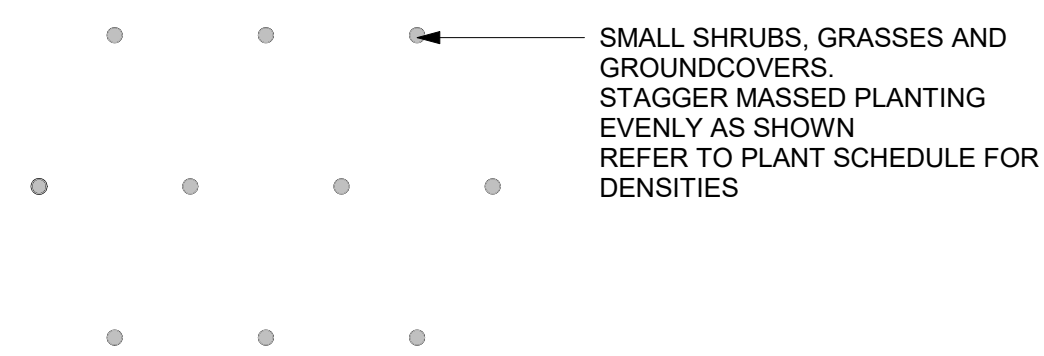
2 TYPICAL TREE PLANTING - PODIUM

scale 1 : 20



3 TYPICAL MASS PLANTING - NATURAL GROUND

scale 1 : 20



4 TYPICAL MASS PLANTING - PODIUM

scale 1 : 20



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Approved Application No: SSD-10467

Granted on: 28 May 2021

Signed: JF Sheet No: 15 of 44

Key Plan:

Project Status:

80% DESIGN DEVELOPMENT

Project No.:

60628128

A	23-OCT-2020	80% DESIGN DEVELOPMENT ISSUE	CL		DP
A	16-OCT-2020	80% DESIGN DEVELOPMENT ISSUE	CL		DP
REV.	DATE	DESCRIPTION	DRWN	ENGR	CHK APP'D

ARCHITECT:

AECOM

CIVIL/STRUCTURAL ENGINEER:

AECOM

MEP ENGINEER:

AECOM

AGILE No.:

PROJECT:

ATHENA

TITLE:

LANDSCAPE DETAILS - SHEET 1

SCALE:

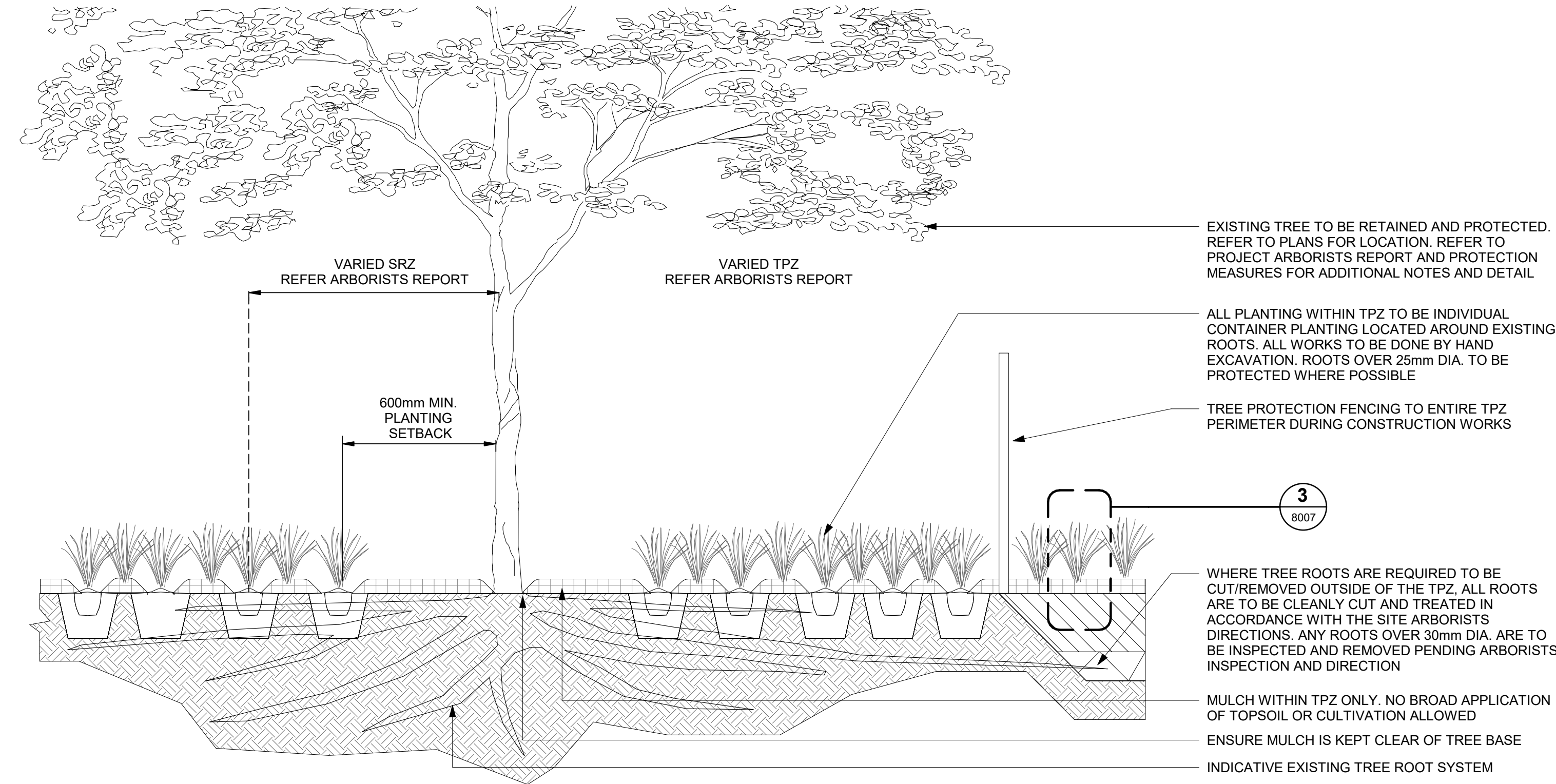
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DRAWING NO.:

ATHENA-ACM-XX-XX-DR-A-8007

REV.:

A



1 EXISTING TREE WITH PROPOSED PLANTING BENEATH

scale 1 : 20

REFERENCE DOCUMENTS
THE FOLLOWING STANDARDS & REFERENCE DOCUMENTS ARE TO BE REFERRED TO WITH REGARDS TO WORKS ASSOCIATED WITH EXISTING TREES TO BE RETAINED AND PROTECTED:

AS 4970 (2009) - PROTECTION OF TREES ON DEVELOPMENT SITES
AS 4373 (2007) - PRUNING OF AMENITY TREES
AS 4454 (2003) - COMPOSTS, SOILS CONDITIONERS AND MULCHES
AS 4687 (2007) - TEMPORARY FENCING AND HOARDINGS

TERMS & DEFINITIONS
THE FOLLOWING TERMS & DEFINITIONS (IN ACCORDANCE WITH AS 4970) THAT APPLY TO WORKS ASSOCIATED WITH EXISTING TREES TO BE RETAINED AND PROTECTED ARE:

DIAMETER AT BREAST HEIGHT (DBH) - THE NOMINAL TRUNK DIAMETER AT 1.4m ABOVE GROUND LEVEL.

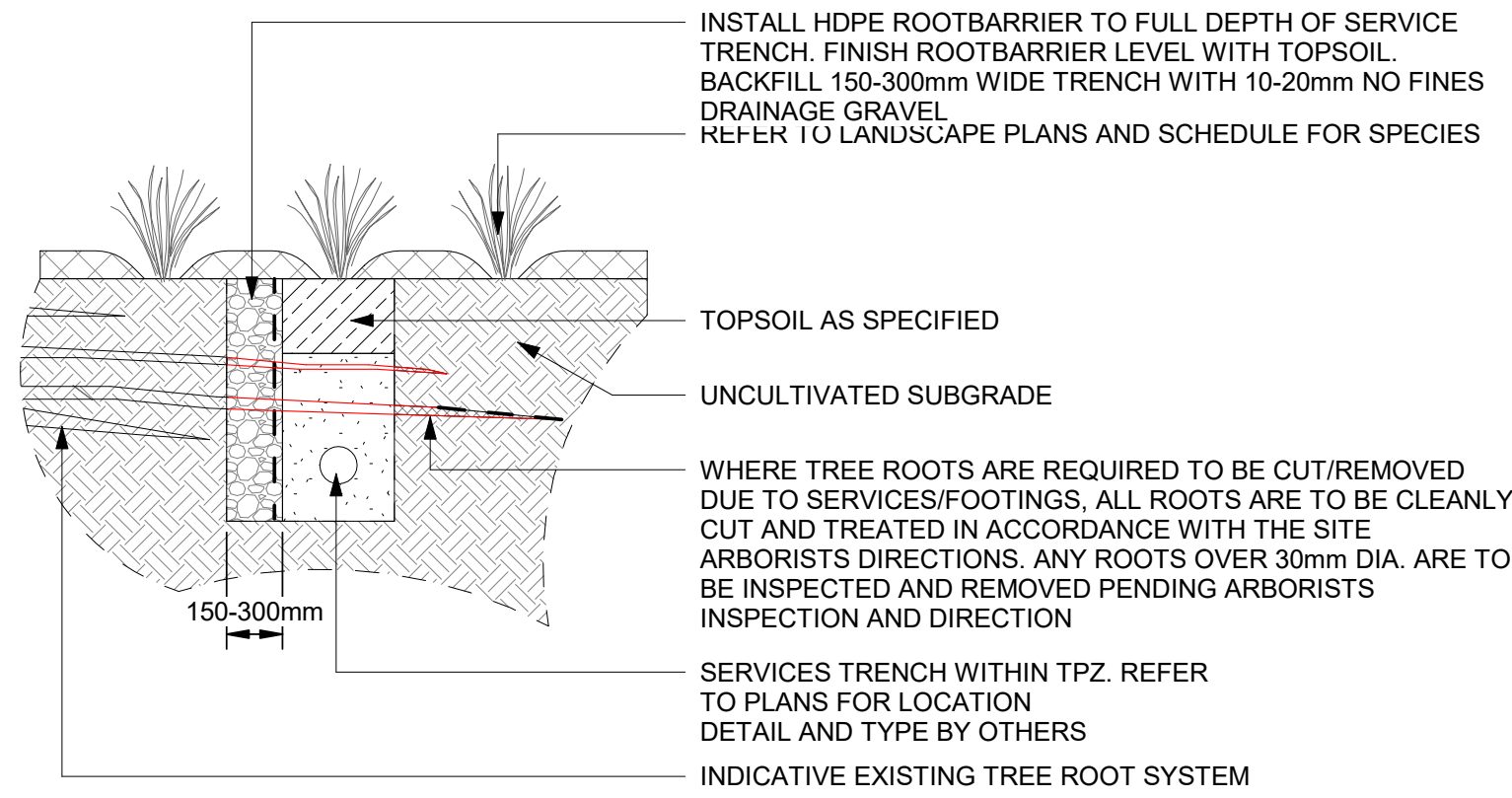
ARBORIST - THE PERSON RESPONSIBLE FOR CARRYING OUT THE TREE ASSESSMENT, REPORT PREPARATION, CONSULTATION, SPECIFYING TREE PROTECTION MEASURES, MONITORING AND CERTIFICATION. A SUITABLY EXPERIENCED AND QUALIFIED PROFESSIONAL (UNDER THE RELEVANT INTERNATIONAL, AUSTRALIAN & STATE ARBORICULTURAL BODIES) ABLE TO COMPETENTLY UNDERTAKE THE REQUIRED WORKS.

STRUCTURAL ROOT ZONE (SRZ) - THE AREA AROUND THE BASE OF A TREE REQUIRED FOR THE TREE'S STABILITY IN THE GROUND. THE WOODY ROOT GROWTH AND SOIL COHESION IN THIS AREA IS REQUIRED TO HOLD THE TREE UPRIGHT. THE SRZ HAS THE TRUNK AT THE CENTRE AND IS EXPRESSED BY THE RADIUS IN METERS.
THIS ZONE DOES NOT INCLUDE THE ROOT ZONE REQUIRED FOR A TREE'S VIGOUR AND LONG-TERM VIABILITY - THIS WILL BE A MUCH LARGER AREA.

TREE PROTECTION ZONE (TPZ) - A SPECIFIED AREA ABOVE AND BELOW GROUND AND AT A GIVEN DISTANCE FROM THE TRUNK SET ASIDE FOR THE PROTECTION OF THE TREE'S ROOTS AND CROWN TO PROVIDE FOR THE VIABILITY AND STABILITY OF A TREE TO BE RETAINED WHERE IT IS POTENTIALLY SUBJECT TO DAMAGE BY WORK.

VIGOUR - ABILITY OF A TREE TO SUSTAIN ITS LIFE PROCESSES.

WORK - ANY PHYSICAL ACTIVITY IN RELATION TO LAND THAT IS SPECIFIED BY THE AUTHORITY



2 EXISTING TREE - SERVICE TRENCH

scale 1 : 20



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Sheet No: 16 of 44

MINIMISE ROOT DAMAGE WHERE POSSIBLE.
MINIMAL DISTURBANCE TO SERVICE TRENCH IMMEDIATE AREA ONLY

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ATHENA SID Register

Key Plan:

Project Status: 80% DESIGN DEVELOPMENT

Project No.: 60628128

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A	23-OCT-2020	80% DESIGN DEVELOPMENT ISSUE	CL		JB	DP
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ARCHITECT:

AECOM

CIVIL/STRUCTURAL ENGINEER:

AECOM

MEP ENGINEER:

AECOM

AGILE No.:

PROJECT: ATHENA

TITLE: LANDSCAPE DETAILS - SHEET 2

SCALE: 1 : 20
DRAWING NO.: ATHENA-ACM-XX-XX-DR-A-8008
REV.: A

NOTE: ALL CIVIL ENGINEERING CONSTRUCTION WORKS TO BE CARRIED OUT IN ACCORDANCE WITH CITY OF RYDE COUNCIL DEVELOPMENT GUIDELINES .THE AFOREMENTIONED GUIDELINES INCLUSIVE OF ALL SPECIFICATIONS TAKE PRECEDENCE OVER NOTES PROVIDED BELOW.

ACCESS AND SAFETY

1. THE CONTRACTOR SHALL COMPLY WITH ALL STATUTORY AND INDUSTRIAL REQUIREMENTS FOR PROVISION OF A SAFE WORKING ENVIRONMENT INCLUDING TRAFFIC CONTROL.

2. THE CONTRACTOR SHALL PROVIDE TRAFFIC MANAGEMENT PLANS FOR THE PROPOSED WORKS COMPLETED BY A SUITABLY QUALIFIED PERSON AND APPROVED BY COUNCIL / REGULATORY AUTHORITY. WORK IS NOT TO COMMENCE ON SITE PRIOR TO APPROVAL OF TRAFFIC MANAGEMENT SCHEME.

3. THE CONTRACTOR SHALL ENSURE THAT AT ALL TIMES ACCESS TO BUILDINGS ADJACENT THE WORKS IS NOT DISRUPTED.

4. WHERE NECESSARY THE CONTRACTOR SHALL PROVIDE SAFE PASSAGE OF VEHICLES AND/OR PEDESTRIANS THROUGH OR BY THE SITE.

5. THE CONTRACTOR SHALL ENSURE PUBLIC ACCESS EXTERNAL TO THE SITE IS IN ACCORDANCE WITH COUNCILS / AUTHORITY / SITE MANAGERS REQUIREMENTS.

TREE PROTECTION

1. REFER TO LANDSCAPE PLAN FOR TREES TO BE RETAINED AND PROTECTED.

2. ANY EXISTING/PROPOSED TREES WHICH FORM PART OF THE FINAL LANDSCAPING PLAN SHALL BE PROTECTED FROM CONSTRUCTION ACTIVITIES BY:

2.1. PROTECTING THEM WITH BARRIER FENCING OR SIMILAR MATERIALS INSTALLED OUTSIDE THE DRIP LINE.

2.2. ENSURING THAT NOTHING IS NAILED TO ANY PART OF THE TREE.

2.3. CARE IS TAKEN NOT TO CUT ROOTS UNNECESSARILY. COUNCILS AND/OR INDEPENDENT ARBORISTS TO BE CONSULTED WHERE TREE ROOTS ARE TO BE REMOVED AND/OR CUT.

SEDIMENT AND SOIL EROSION

1. THE SEDIMENT & EROSION CONTROL PLAN PRESENTS CONCEPTS ONLY. THE CONTRACTOR SHALL AT ALL TIMES BE RESPONSIBLE FOR THE ESTABLISHMENT & MANAGEMENT OF A DETAILED SCHEME MEETING COUNCILS AND OTHER REGULATORY AUTHORITY REQUIREMENTS AND MAKE PAYMENT OF ALL FEES.

2. THE CONTRACTOR SHALL INSTIGATE ALL SEDIMENT AND EROSION CONTROL MEASURES IN ACCORDANCE WITH STATUTORY REQUIREMENTS AND IN PARTICULAR THE 'BLUE BOOK' (MANAGING URBAN STORMWATER SOILS AND CONSTRUCTION), PRODUCED BY THE DEPARTMENT OF HOUSING AND COUNCILS POLICIES. THESE MEASURES ARE TO BE INSPECTED AND MAINTAINED ON A DAILY BASIS.

3. THE CONTRACTOR SHALL ENSURE THAT ALL SOIL AND WATER MANAGEMENT WORKS ARE LOCATED AS INSTRUCTED IN THE DRAWINGS AND ADHERE TO ALL REGULATORY AUTHORITY REQUIREMENTS.

4. THE CONTRACTOR SHALL INFORM ALL SUB CONTRACTORS OF THEIR RESPONSIBILITIES IN MINIMISING THE POTENTIAL FOR SOIL EROSION AND POLLUTION TO DOWNSTREAM LANDS AND WATERWAYS.

5. WHERE PRACTICAL, THE SOIL EROSION HAZARD ON THE SITE SHALL BE KEPT AS LOW AS POSSIBLE. TO THIS END, WORKS SHOULD BE UNDERTAKEN IN THE FOLLOWING SEQUENCE;

5.1.CONSTRUCT TEMPORARY STABILISED SITE ACCESS INCLUSIVE OF SHAKE DOWN / WASH PAD.

5.2.INSTALL ALL TEMPORARY SEDIMENT FENCES AND BARRIER FENCES, WHERE FENCES ADJACENT EACH OTHER, THE SEDIMENT FENCE CAN BE INCORPORATED INTO THE BARRIER FENCE.

5.3.INSTALL SEDIMENT CONTROL MEASURES AS OUTLINED ON THE APPROVED PLANS.

6. UNDERTAKE SITE DEVELOPMENT WORKS SO THAT LAND DISTURBANCE IS CONFINED TO AREAS OF MINIMUM WORKABLE SIZE.

7. AT ALL TIMES AND IN PARTICULAR DURING WINDY AND DRY WEATHER, LARGE UNPROTECTED AREAS WILL BE STABILISED / KEPT MOIST (NOT WET) TO KEEP DUST UNDER CONTROL ENSURING CONFORMITY TO REGULATORY AUTHORITY REQUIREMENTS.

8. ANY SAND USED IN THE CONCRETE CURING PROCESS (SPREAD OVER THE SURFACE) SHALL BE REMOVED AS SOON AS POSSIBLE AND WITHIN 10 WORKING DAYS FROM PLACEMENT.

9. WATER SHALL BE PREVENTED FROM ENTERING THE PERMANENT DRAINAGE SYSTEM UNLESS THE CATCHMENT AREA HAS BEEN STABILISED AND/OR ANY LIKELY SEDIMENT BEEN FILTERED OUT.

10. TEMPORARY SOIL AND WATER MANAGEMENT STRUCTURES SHALL BE REMOVED ONLY AFTER THE LANDS THEY ARE PROTECTING ARE STABILISED / REHABILITATED.

11. ALLOW FOR GRASS STABILISATION OF EXPOSED AREAS, OPEN CHANNELS AND ROCK BATTERS DURING ALL PHASES OF CONSTRUCTION.

12. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSPECTED TO ENSURE THAT THEY OPERATE EFFECTIVELY. REPAIRS AND/OR MAINTENANCE SHALL BE UNDERTAKEN REGULARLY AND AS REQUIRED, PARTICULARLY FOLLOWING RAIN EVENTS.

13. RECEPTORS FOR CONCRETE AND MORTAR SLURRIES, PAINTS, ACID WASHINGS, LIGHT-WEIGHT WASTE MATERIALS AND LITTER SHALL BE DISPOSED OF IN ACCORDANCE WITH REGULATORY AUTHORITY REQUIREMENTS. CONTRACTOR TO PAY ALL FEES AND PROVIDE EVIDENCE OF SAFE DISPOSAL.

14. IF A TEMPORARY SEDIMENT BASIN IS REQUIRED, ENSURE SAFE BATTER SLOPES IN ACCORDANCE WITH THE GEOTECHNICAL REPORT. MAINTAIN ADEQUATE STORAGE VOLUME IN ACCORDANCE WITH PLANS. TEMPORARY PUMP 'CLEAN FLOCCULATED' WATER TO AUTHORITIES STORMWATER SYSTEM. ENSURE WHOLE DISTURBED SITE RUN-OFF IS DIRECTED TO TEMPORARY SEDIMENT BASIN.

EXISTING SERVICES

1. ALL UTILITY SERVICES INDICATED ON THE DRAWINGS ORIGINATE FROM SUPPLIED DATA OR DIAL BEFORE YOU DIG SEARCHES, THEREFORE THEIR ACCURACY AND COMPLETENESS IS NOT GUARANTEED. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE AND CONFIRM THE LOCATION AND LEVEL OF ALL EXISTING SERVICES PRIOR TO THE COMMENCEMENT OF ANY WORK. ANY DISCREPANCIES SHALL BE REPORTED TO THE SUPERINTENDENT. CLEARANCES SHALL BE OBTAINED FROM THE RELEVANT SERVICE AUTHORITY. NOTE SERVICE AUTHORITY REQUIREMENTS FOR LOCATING OF SERVICES PRIOR TO COMMENCEMENT OF WORKS.

2. CARE TO BE TAKEN WHEN EXCAVATING NEAR EXISTING SERVICES. NO MECHANICAL EXCAVATIONS ARE TO BE UNDERTAKEN OVER COMMUNICATION, GAS OR ELECTRICAL SERVICES. HAND EXCAVATION ONLY IN THESE AREAS.

3. THE CONTRACTOR SHALL PROTECT AND MAINTAIN ALL EXISTING SERVICES THAT ARE TO BE RETAINED IN THE VICINITY OF THE PROPOSED WORKS. ANY AND ALL DAMAGE TO THESE SERVICES AS A RESULT OF THESE WORKS SHALL BE REPAIRED BY THE CONTRACTOR UNDER THE DIRECTION OF THE SUPERINTENDENT AT THE CONTRACTORS EXPENSE.

4. THE CONTRACTOR SHALL ALLOW IN THE PROGRAM FOR THE ADJUSTMENT (IF REQUIRED) OF EXISTING SERVICES IN AREAS AFFECTED BY WORKS.

5. THE CONTRACTOR SHALL ALLOW IN THE PROGRAM FOR THE CAPPING OFF, EXCAVATION AND REMOVAL (IF REQUIRED) OF EXISTING SERVICES IN AREAS AFFECTED BY WORKS UNLESS DIRECTED OTHERWISE ON THE DRAWINGS OR BY THE SUPERINTENDENT.

6. THE CONTRACTOR SHALL ENSURE THAT AT ALL TIMES SERVICES TO ALL BUILDINGS ARE NOT AFFECTED BY THE WORKS AND ARE MAINTAINED AND NOT DISRUPTED.

7. PRIOR TO COMMENCEMENT OF ANY WORKS THE CONTRACTOR SHALL GAIN APPROVAL OF THE PROGRAM FOR THE RELOCATION AND/OR CONSTRUCTION OF TEMPORARY SERVICES AND FOR ANY ASSOCIATED INTERRUPTION OF SUPPLY.

8. THE CONTRACTOR SHALL CONSTRUCT TEMPORARY SERVICES TO MAINTAIN EXISTING SUPPLY TO BUILDINGS REMAINING IN OPERATION DURING WORKS TO THE SATISFACTION AND APPROVAL OF THE SUPERINTENDENT. ONCE DIVERSION IS COMPLETE AND COMMISSIONED THE CONTRACTOR SHALL REMOVE ALL SUCH TEMPORARY SERVICES AND MAKE GOOD TO THE SATISFACTION OF THE SUPERINTENDENT.

9. THE CONTRACTOR IS TO ALLOW TO POTHOLE ANY SERVICES WITHIN A PUBLIC RESERVE WITHIN THE EXTENT OF WORKS (E.G. STORMWATER CROSSINGS).

EARTHWORKS (cont)

12. WHERE THERE IS INSUFFICIENT EXCAVATED MATERIAL SUITABLE FOR FILLING OR SUBGRADE REPLACEMENT, THE CONTRACTOR IS TO ALLOW TO IMPORT FILL. IMPORTED FILL SHALL COMPLY WITH THE FOLLOWING;

1.1. BE OF VIRGIN EXCAVATED NATURAL MATERIAL OR

1.2. CONTRACTOR TO PROVIDE EVIDENCE IMPORT IS SUITABLE FOR USE

1.3. PLASTICITY INDEX BETWEEN 2-15% AND CBR > 8

1.4. FREE FROM ORGANIC AND PERISHABLE MATTER

1.5. MAXIMUM SIZE 50mm, PASSING 75 MICRON SIEVE (-25%)

2. THE CONTRACTOR SHALL PROGRAM THE EARTHWORKS OPERATION SO THAT THE WORKING AREAS ARE ADEQUATELY DRAINED DURING THE PERIOD OF CONSTRUCTION. THE SURFACE SHALL BE GRADED AND SEALED OFF TO REMOVE DEPRESSIONS, ROLLERS MARKS AND SIMILAR WHICH WOULD ALLOW WATER TO POND AND PENETRATE THE UNDERLYING MATERIAL. ANY DAMAGE RESULTING FROM THE CONTRACTOR NOT OBSERVING THESE REQUIREMENTS SHALL BE RECTIFIED AT THEIR COST.

12. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE AND MAINTAIN THE INTEGRITY OF ALL SERVICES, CONDUITS AND PIPES DURING CONSTRUCTION, SPECIFICALLY DURING THE BACKFILLING AND COMPACTION PROCEDURE. ANY AND ALL DAMAGE TO NEW OR EXISTING SERVICES AS A RESULT OF THESE WORKS SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST.

DEEP EXCAVATIONS

13. PRIOR TO THE COMMENCEMENT OF EXCAVATION WORKS GREATER THAN 1.5m IN DEPTH, THE CONTRACTOR SHALL OBTAIN THE SERVICES OF A SUITABLY QUALIFIED GEOTECHNICAL ENGINEER TO DETERMINE THE STABILITY OF MATERIAL BEING EXCAVATED AND BENCHING REQUIREMENTS / MINIMUM BATTER SLOPES.

14. THE CONTRACTOR MUST PROVIDE THE SUPERINTENDENT AND OR THE DESIGN ENGINEER WITH A COPY OF THE GEOTECHNICAL ENGINEERS REPORT PRIOR TO PRACTICAL COMPLETION.

15. THE CONTRACTOR IS TO PROVIDE SAFETY BARRIERS, FENCING AND THE LIKE IN ACCORDANCE WITH OH&S AND REGULATORY AUTHORITY REQUIREMENTS AND TO ENSURE THE WORK SITE IS SAFE AT ALL TIMES.

LANDSCAPING

1. REFER TO DRAWINGS BY OTHERS FOR DETAILS OF PROPOSED LANDSCAPING TREATMENT.

ENGINEERING CERTIFICATION

1. TO CERTIFY THE CONSTRUCTED CIVIL WORKS, A QUALIFIED EXPERIENCED ENGINEER IS TO VISIT THE SITE TO OBSERVE CONSTRUCTION TECHNIQUES AND VARIOUS ELEMENTS THAT MAY BE CONCEALED WHEN THE WORKS ARE COMPLETE.

2. THIS SPECIFICATION ALLOWS FOR CERTIFICATION OF WORKS CONTROLLED BY A PRIVATE CERTIFIER FOR LAND DEVELOPMENT WORKS. THIS SPECIFICATION DOES NOT COVER CERTIFICATION REQUIREMENTS FOR AUTHORITIES SUCH AS COUNCIL, RMS OR OFFICE OF WATER. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE AND PROVIDE ALL PROJECT SPECIFIC CONSTRUCTION COMPLIANCE (WORKS AS EXECUTED) INFORMATION TO THE SATISFACTION OF THE STAKEHOLDER / AUTHORITY. DISCREPANCIES BETWEEN THIS SPECIFICATION AND SPECIFICATIONS OF OTHER EXTERNAL STAKEHOLDERS / AUTHORITIES IS TO BE REPORTED TO THE SUPERINTENDENT FOR CLARIFICATION.

3. THE CONTRACTOR IS TO AGREE WITH THE ENGINEER AN APPROPRIATE SITE VISIT SCHEDULE AND FEE ARRANGEMENT PRIOR TO COMMENCEMENT OF THE WORKS. THE CONTRACTOR SHALL ENSURE THAT THE ENGINEER CAN SAFELY ACCESS ALL CIVIL ELEMENTS TO BE REVIEWED. SITE VISITS ARE CONDUCTED DURING NORMAL BUSINESS HOURS. WE REQUIRE TWO (2) WORKING DAY NOTICE FOR ANY SITE VISIT.

4. TO PROVIDE CERTIFICATION THE ENGINEER MUST VISIT THE SITE TO OBSERVE

4.1. PAVEMENTS

4.1.1. POOR SUBGRADE CONDITIONS

4.1.2. PROOF ROLLING OF SUB-GRADE

4.1.3. PLACEMENT OF SUB-BASE COURSE, BASE COURSE AND WEARING COURSE.

4.1.4. PLACEMENT OF STEEL REINFORCEMENT , DOWELS AND JOINT CRADLES PRIOR TO POURING OF CONCRETE

4.2. EARTHWORKS

4.2.1. TOPSOIL STRIP

4.2.2. EARTHWORKS BATTER FILLING

4.2.3.

4.3. STORMWATER DRAINAGE

4.3.1. DRAINAGE TRENCHES PRIOR TO BACKFILLING

4.3.2. LEGAL POINT OF CONNECTION PRIOR TO BACKFILLING

4.3.3. ANY OTHER DRAINAGE STRUCTURE THAT MAY BE CONCEALED DURING THE COURSE OF THE WORKS

4.4. CONCRETE STRUCTURES

4.4.1. PLACEMENT OF ANY STEEL REINFORCEMENT PRIOR TO CONSTRUCTION.

5. THE CONTRACTOR SHALL PROVIDE SURVEYED LEVELS, PREPARED BY A QUALIFIED SURVEYOR FOR SUBGRADE, SUB-BASE COURSE, BASE COURSE AND WEARING COURSE.

6. THE CONTRACTOR SHALL PROVIDE WORKS AS EXECUTED (WAE) DOCUMENTATION PREPARED BY A QUALIFIED PRACTISING SURVEYOR. THE WAE DRAWINGS SHALL CLEARLY SHOW, STORMWATER GRATE/ COVER LEVELS, STORMWATER PIT INVERT LEVELS AND CORRESPONDING INVERT LEVELS OF ANY INCOMING OR OUTGOING PIPES, DIAMETER OF ALL PIPES, DIMENSIONS AND VOLUME OF ON-SITE DETENTION FACILITIES, INVERT LEVELS OF ORIFICE PLATES, OVERFLOW WEIRS, BASE OF TANK FINISHED LEVELS OF PAVEMENTS. THE WAE SHALL SHOW WHERE THE SIZE OR ALIGNMENT OF CIVIL ENGINEERING ELEMENTS WHEN THEY DEViate FROM THE DESIGN DOCUMENTATION.

7. THE WAE DRAWINGS SHALL BE STAMPED WITH THE FOLLOWING STATEMENT "THESE WAE DRAWINGS HAVE BEEN PREPARED BY [COMPANY NAME] AND ARE A TRUE AND ACCURATE REPRESENTATION OF THE CONSTRUCTED WORKS". EACH DRAWING SHALL BE SIGNED AND DATED BY THE SURVEYOR WHO PREPARED THE DRAWINGS. THESE WAE DRAWINGS HAVE BEEN PREPARED BY [COMPANY NAME] AND ARE A TRUE AND ACCURATE REPRESENTATION OF THE CONSTRUCTED WORKS. SIGNED..... DATE.....

NAME.....

POSITION.....

8. WAE SHALL BE PROVIDED IN BOTH AUTOCAD AND PDF FORMAT. NORTHROP CONSULTING ENGINEERS WILL PROVIDE ENGINEERING PLANS TO THE CONTRACTOR IN AUTOCAD FORMAT TO AID PREPARATION OF WAE DOCUMENTATION.

9. IF THE WORKS ARE SUBJECT TO APPROVAL BY THE UPPER PARRAMATTA RIVER CATCHMENT TRUST (UPRCT) THE CONTRACTOR IS TO ABIDE BY THE UPRCT APPROVAL CHECKLIST.

10. CONTRACTOR IS TO UNDERTAKE A CCTV INSPECTION OF ALL STORMWATER DRAINAGE PIPELINES AND PROVIDE TO THE ENGINEER FOR APPROVAL.

11. THE CONTRACTOR SHALL PROVIDE ALL RELEVANT TEST CERTIFICATES PROGRESSIVELY THROUGHOUT THE DURATION OF THE WORKS. ALL TEST CERTIFICATES SHALL BE PREPARED BY A NATA REGISTERED LABORATORY. TEST CERTIFICATES ARE REQUIRED FOR PROOF ROLLING, SUBGRADE COMPACTION, COMPACTION OF PAVEMENT LAYERS, COMPACTION OF FILLING OPERATIONS, CONCRETE SLUMP TEST, AND CONCRETE STRENGTH TESTS. THE CONTRACT SHALL PROVIDE ALL RELEVANT VALIDATIONS BY A GEOTECHNICAL ENGINEER FOR ALL IMPORTED FILL.

12. EACH TEST CERTIFICATE WILL NOMINATE THE DATE AND TIME OF THE TEST AND PROVIDE A LOCATION OF WHERE THE TEST SAMPLE WAS TAKEN FROM.

13. THE CONTRACTOR SHALL ARRANGE FOR THE ENGINEER TO CONDUCT A FINAL VISIT TO REVIEW OF THE CONSTRUCTED WORKS. THIS VISIT REVIEW WILL NOT TAKE PLACE UNTIL THE WAE DOCUMENTATION AND RELEVANT TEST CERTIFICATES HAVE BEEN RECEIVED.

14. IF DEFECTIVE OR INCOMPLETE WORK IS FOUND DURING THE FINAL INSPECTION ANOTHER INSPECTION MAY BE REQUIRED AT THE CONTRACTORS EXPENSE TO VERIFY THE RECTIFICATION WORKS HAVE BEEN COMPLETED.

3D INFORMATION DISCLAIMER

PLEASE BE ADVISED 12D DESIGN FILE, IF SUPPLIED, IS DEEMED TO BE AN ACCURATE REFLECTION OF NORTHROP'S DESIGN AT THE TIME OF FINAL DESIGN DEVELOPMENT AND MAY NOT FULLY REFLECT THE DESIGN SURFACE AS PRESENTED. HOWEVER THIS INFORMATION SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO INCORPORATION IN THE CONSTRUCTION WORKS.

YOU ARE FURTHER ADVISED THAT ISSUED HARDCOPY/PDF PLANS AND DOCUMENTS TAKE PRECEDENCE OVER THE SUPPLIED ELECTRONIC INFORMATION AND ANY INCONSANCIES SHOULD IMMEDIATELY BE REPORTED TO NORTHROP CONSULTING ENGINEERS FOR VERIFICATION PRIOR TO THEIR INCORPORATION IN THE WORKS.

NORTHROP CONSULTING ENGINEERS TAKES NO RESPONSIBILITY FOR USE OF NON-VERIFIED 3D DESIGN INFORMATION USED IN THE WORKS.

THE USE OF THE 3D MODEL INFORMATION SHALL CONSTITUTE ACKNOWLEDGMENT AND ACCEPTANCE OF THE ABOVE STATEMENTS BY THE RECIPIENT.

SAFETY IN DESIGN

!

THE FOLLOWING ITEMS HAVE BEEN IDENTIFIED AS SAFETY RISKS

S01

INTERCEPTION OF EXISTING SERVICES

S02

FALL DURING CONSTRUCTION

S03

VEHICULAR TRAFFIC

S04

DEEP TRENCHES

DESIGNED: B. FIELD

VERIFIER: S. FRYER

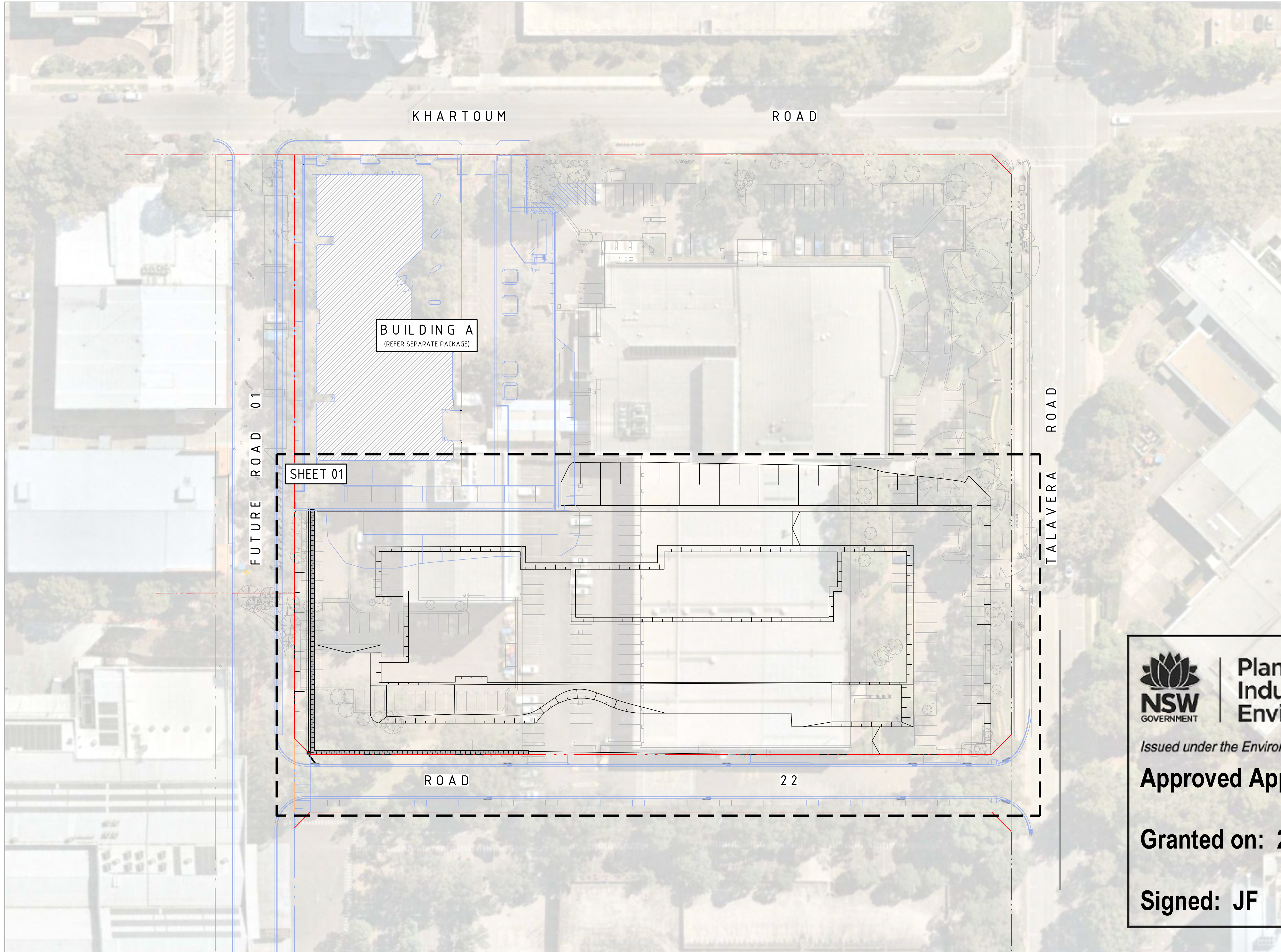
JOB MANAGER: M. SANTIAGO

DRAWN: C. PASKE

REVISION	DESCRIPTION	ISSUED	VER'D	APP'D	DATE	CLIENT	ALL DIMENSIONS TO BE VERIFIED ON SITE BEFORE COMMENCING WORK. NORTHROP ACCEPTS NO RESPONSIBILITY FOR THE USABILITY, COMPLETENESS OR SCALE OF DRAWINGS TRANSFERRED ELECTRONICALLY. THIS DRAWING MAY HAVE BEEN PREPARED USING COLOUR, AND MAY BE INCOMPLETE IF COPIED TO BLACK & WHITE	PROJECT	DRAWING TITLE	JOB NUMBER
A	ISSUE FOR TENDER	JO	-	MS	16.11.20	<div><div><div><div></div></div><div>Stockland</div></div><div>DRAWING NOT TO BE USED FOR CONSTRUCTION UNLESS VERIFICATION SIGNATURE HAS BEEN ADDED</div></div> <div>THE COPYRIGHT OF THIS DRAWING REMAINS WITH NORTHROP CONSULTING ENGINEERS PTY LTD</div>	<div><div><div><div></div></div><div>NORTHROP</div></div><div>Sydney</div><div>Level 11 345 George Street, Sydney NSW 2000</div><div>Ph (02) 9241 4188 Fax (02) 9241 4324</div><div>Email sydney@northrop.com.au ABN 81 094 433 100</div></div>	M_PARK - BUILDING B	CIVIL ENGINEERING PACKAGE TENDER SUBMISSION	171708-07
								33 TALAVERA ROAD & 11-17 KHARTOUM ROAD MACQUARIE PARK	SPECIFICATION NOTES - SHEET 01	<div>DRAWING NUMBER C301.11</div> <div>REVISION A</div>
										DRAWING SHEET SIZE = A1

NOT FOR CONSTRUCTION

DRAWN: C. PASKE
DESIGNED: B. FIELD
JOB MANAGER: M. SANTIAGO
VERIFIER: S. FRYER



LEGEND	
	PROPOSED BOUNDARY LINE
	EXISTING BOUNDARY LINE
	EASEMENT LINE
	REDUNDANT BOUNDARY LINE
	SEPARATE WORKS (REFER OTHER PACKAGE)
	PROPOSED BATTERS
	SITEWORKS SHEET EXTENTS



**Planning,
Industry &
Environment**

Issued under the Environmental Planning and Assessment Act 1979

Approved Application No: SSD-10467

Granted on: 28 May 2021

Signed: JF **Sheet No: 18 of 44**

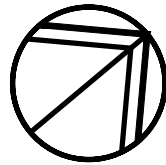
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REVISION	DESCRIPTION	ISSUED	VER'D	APP'D	DATE
A	ISSUE FOR TENDER	JO	-	MS	16.11.20



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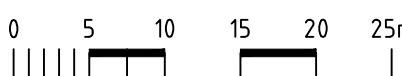


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Email sydney@northrop.com.au ABN 81 094 433 100

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SCALE 1:500@A1



PROJECT

M_PARK - BUILDING B

33 TALAVERA ROAD & 11-17 KHARTOUM ROAD MACQUARIE PARK

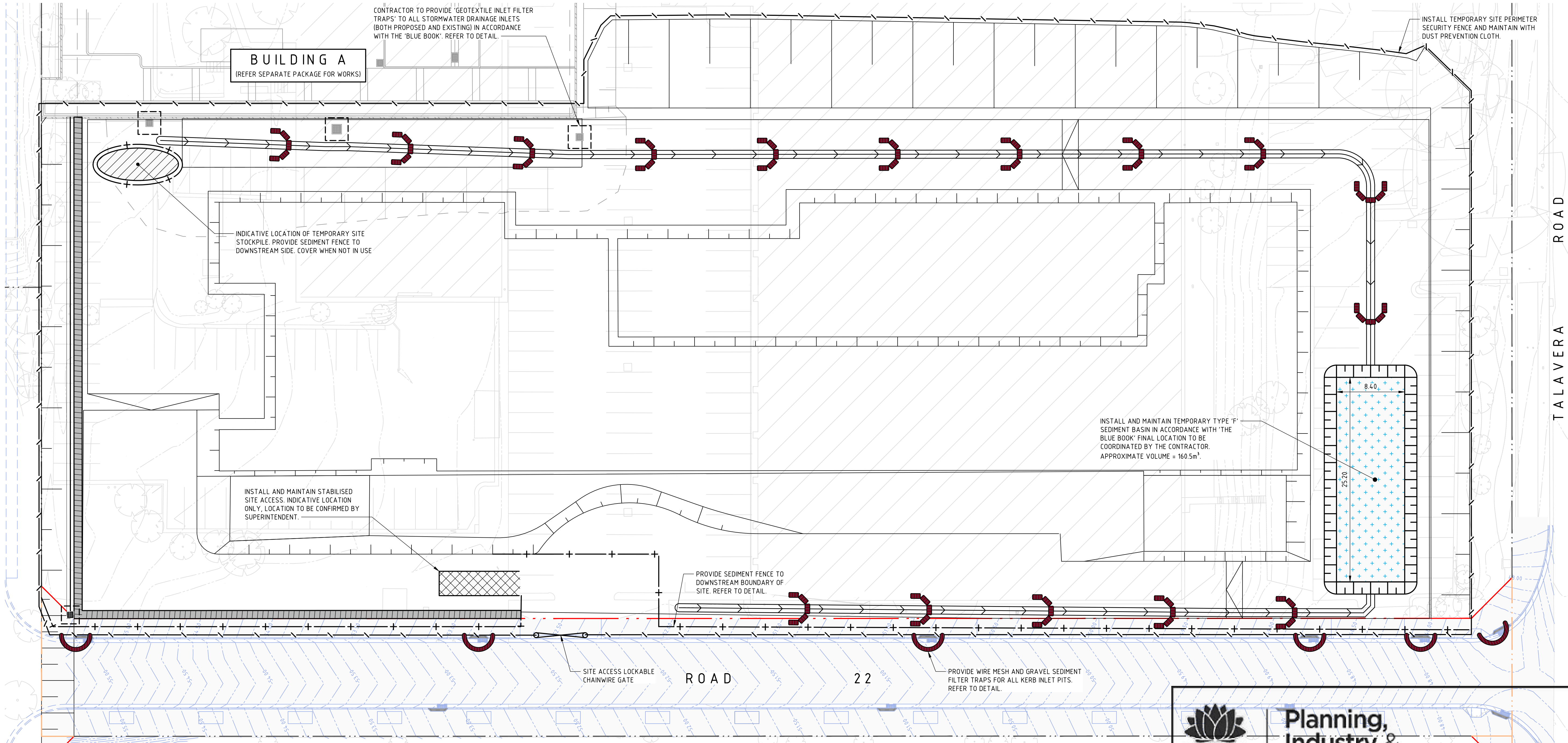
DRAWING TITLE

**CIVIL ENGINEERING PACKAGE
TENDER SUBMISSION
GENERAL ARRANGEMENT PLAN**

JOB NUMBER	171708-07
DRAWING NUMBER	C301.21
REVISION	A
DRAWING SHEET SIZE = A1	

16.11.2020

DRAWN: C. PASKE
DESIGNED: B. FIELD
JOB MANAGER: M. SANTIAGO
VERIFIER:



LEGEND	
	PROPOSED BOUNDARY LINE
	EXISTING BOUNDARY LINE
	REDUNDANT BOUNDARY LINE
	EXISTING CONTOURS
	SEDIMENT FENCE
	SECURITY FENCE
	WIRE MESH AND GRAVEL SEDIMENT FILTER
	STRAW BALE FILTER
	DROP INLET SEDIMENT TRAP
	DRAINAGE SWALE
	STABILISED SITE ACCESS
	STOCKPILE
	SEDIMENT BASIN

- GENERAL NOTES:**
- REFER SPECIFICATIONS NOTES FOR SEDIMENT AND SOIL EROSION CONTROL GENERAL REQUIREMENTS.
 - ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH COUNCIL / RELEVANT AUTHORITY SPECIFICATIONS AND DETAILS.
 - ALL SEDIMENT AND SOIL EROSION CONTROL MEASURES TO BE INSTALLED IN ACCORDANCE WITH THE 'BLUE BOOK'. CONTRACTOR TO ENSURE THESE MEASURES ARE IN PLACE AND MAINTAINED AT ALL TIMES DURING CONSTRUCTION WORKS.
 - CONTRACTOR TO PROVIDE 'WIRE MESH AND GRAVEL SEDIMENT FILTER' TO ALL PAVED / ROAD AREAS (BOTH PROPOSED AND EXISTING) IN ACCORDANCE WITH THE 'BLUE BOOK'.
 - CONTRACTOR TO PROVIDE 'GEOTEXTILE INLET FILTER TRAPS' TO ALL STORMWATER DRAINAGE INLETS (BOTH PROPOSED AND EXISTING) IN ACCORDANCE WITH THE 'BLUE BOOK'.

BASIN CALCULATIONS	
PARAMETER	ADOPTED VALUE
TOTAL DISTURBED AREA (HA)	1.169
SOIL TEXTURE GROUP	F
DESIGN RAINFALL DEPTH (DAYS)	5
DESIGN RAINFALL DEPTH (%)	80
X-DAY, Y-PERCENTILE RAINFALL EVENT	18.3
Cv	0.5
SETTLING ZONE VOLUME (m³)	106 964
SEDIMENT STORAGE VOLUME (m³)	53 482
TOTAL BASIN VOLUME (m³)	160 445

Planning, Industry & Environment

Issued under the *Environmental Planning and Assessment Act 1979*

Approved Application No: SSD-10467

Granted on: 28 May 2021

Signed: JF **Sheet No: 19 of 44**

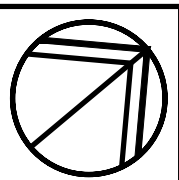
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SCALE 1:250 @ A1
0 2 4 6 8 10 12m

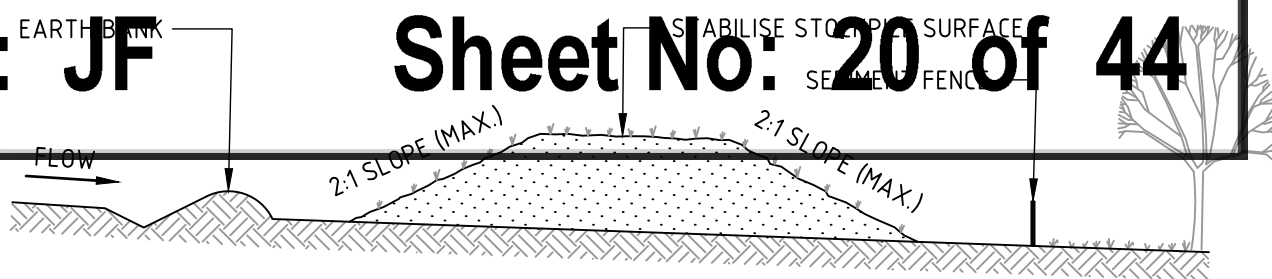
NORTHROP

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PROJECT
M_PARK - BUILDING B
33 TALAVERA ROAD & 11-17 KHARTOUM ROAD MACQUARIE PARK

DRAWING TITLE
CIVIL ENGINEERING PACKAGE TENDER SUBMISSION
SEDIMENT AND SOIL EROSION CONTROL PLAN

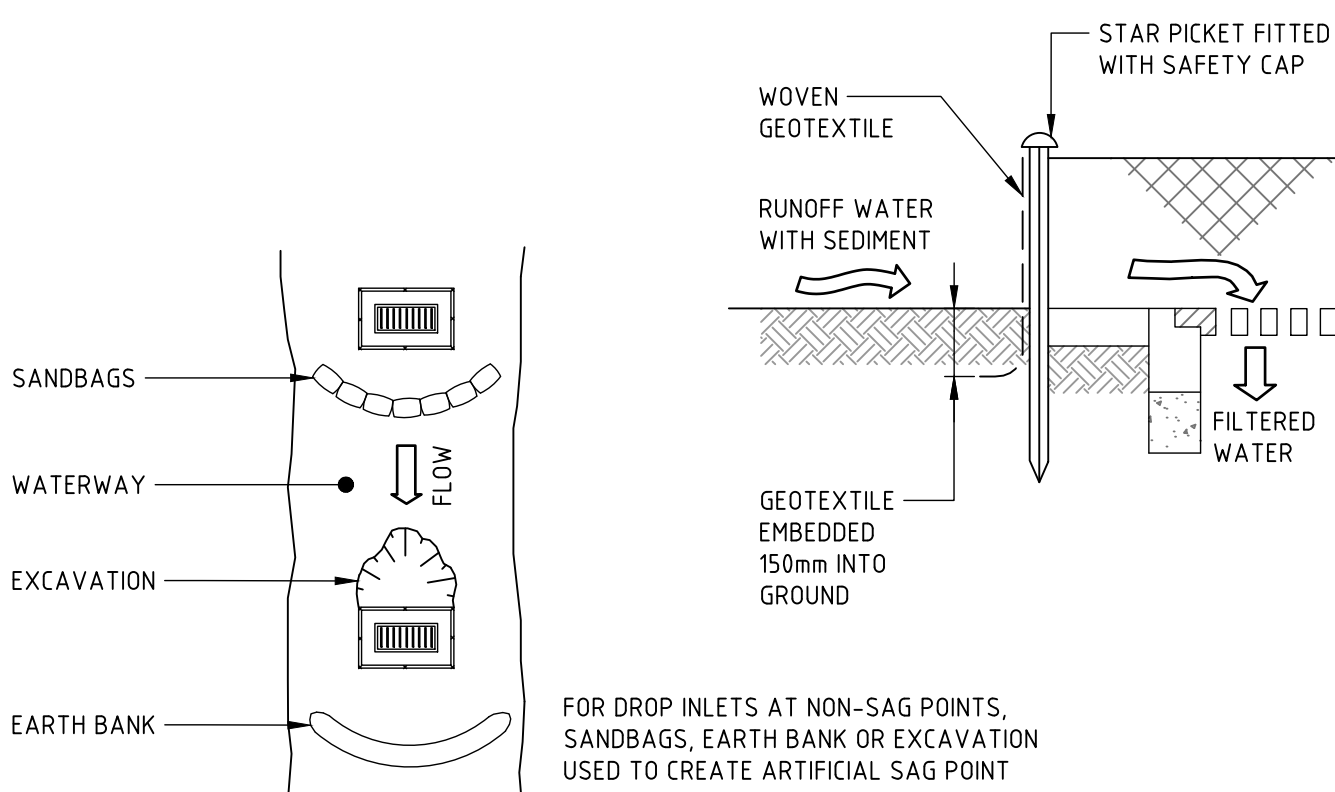
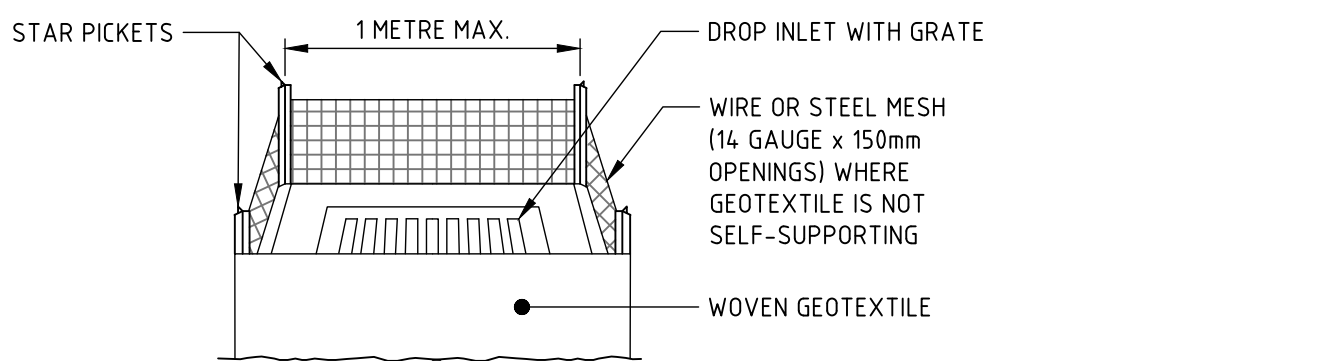
JOB NUMBER 171708-07	REVISION A
DRAWING NUMBER C302.01	DRAWING SHEET SIZE = A1



CONSTRUCTION NOTES

1. PLACE STOCKPILES MORE THAN 2m (PREFERABLY 5m) FROM EXISTING VEGETATION, CONCENTRATED WATER FLOW, ROADS AND HAZARD AREAS.
2. CONSTRUCT ON THE CONTOUR AS LOW, FLAT, ELONGATED MOUNDS.
3. WHERE THERE IS SUFFICIENT AREA, TOPSOIL STOCKPILES SHALL BE LESS THAN 2m IN HEIGHT.
4. WHERE THEY ARE TO BE IN PLACE FOR MORE THAN 10 DAYS, STABILISE FOLLOWING THE APPROVED ESCP OR SWMP TO REDUCE THE C-FACTOR TO LESS THAN 0.10.
5. CONSTRUCT EARTH BANKS (STANDARD DRAWING 5-5) ON THE UPSLOPE SIDE TO DIVERT WATER AROUND STOCKPILES AND SEDIMENT FENCES (STANDARD DRAWING 6-8) 1 TO 2m DOWNSLOPE.

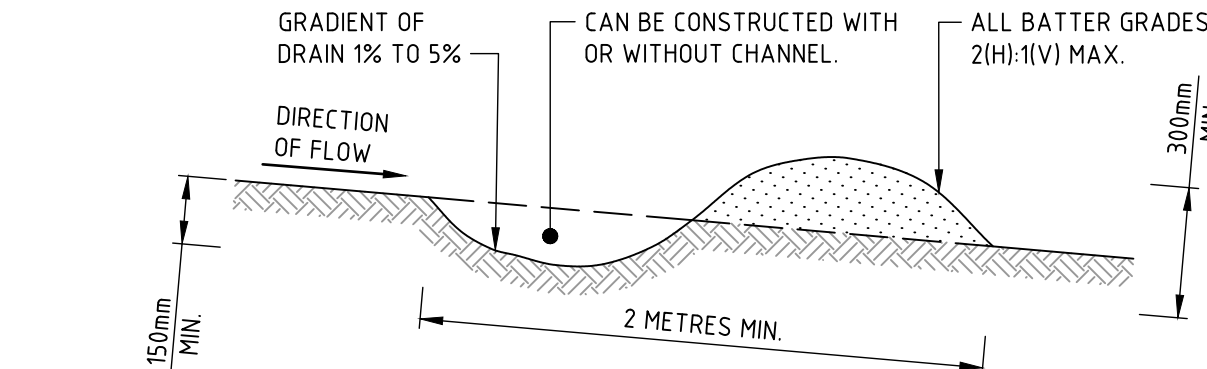
STOCKPILES (SD 4-1)



CONSTRUCTION NOTES

1. FABRICATE A SEDIMENT BARRIER MADE FROM GEOTEXTILE OR STRAW BALES.
2. FOLLOW STANDARD DRAWING 6-7 AND STANDARD DRAWING 6-8 FOR INSTALLATION PROCEDURES FOR THE STRAW BALES OR GEOFABRIC. REDUCE THE PICKET SPACING TO 1 METRE CENTRES.
3. IN WATERWAYS, ARTIFICIAL SAG POINTS CAN BE CREATED WITH SANDBAGS OR EARTH BANKS AS SHOWN IN THE DRAWING.
4. DO NOT COVER THE INLET WITH GEOTEXTILE UNLESS THE DESIGN IS ADEQUATE TO ALLOW FOR ALL WATERS TO BYPASS IT.

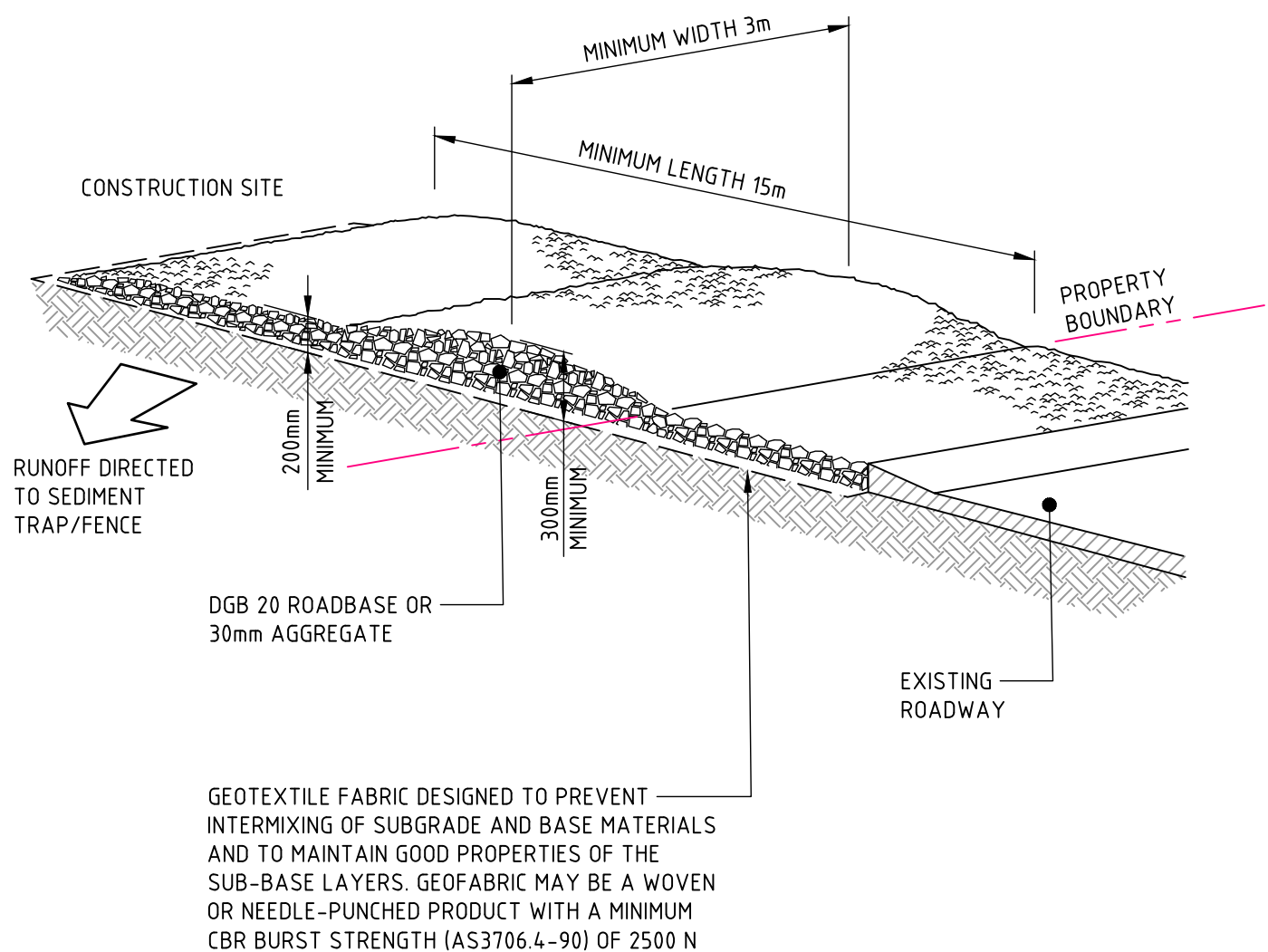
GEOTEXTILE INLET FILTER (SD 6-12)



CONSTRUCTION NOTES

1. BUILD WITH GRADIENTS BETWEEN 1 AND 5 PERCENT.
2. AVOID REMOVING TREES AND SHRUBS IF POSSIBLE - WORK AROUND THEM.
3. ENSURE THE STRUCTURES ARE FREE OF PROJECTIONS OR OTHER IRREGULARITIES THAT COULD IMPEDE WATER FLOW.
4. BUILD THE DRAINS WITH CIRCULAR, PARABOLIC OR TRAPEZOIDAL CROSS SECTIONS, NOT V SHAPED.
5. ENSURE THE BANKS ARE PROPERLY COMPACTED TO PREVENT FAILURE.
6. COMPLETE PERMANENT OR TEMPORARY STABILISATION WITHIN 10 DAYS OF CONSTRUCTION.

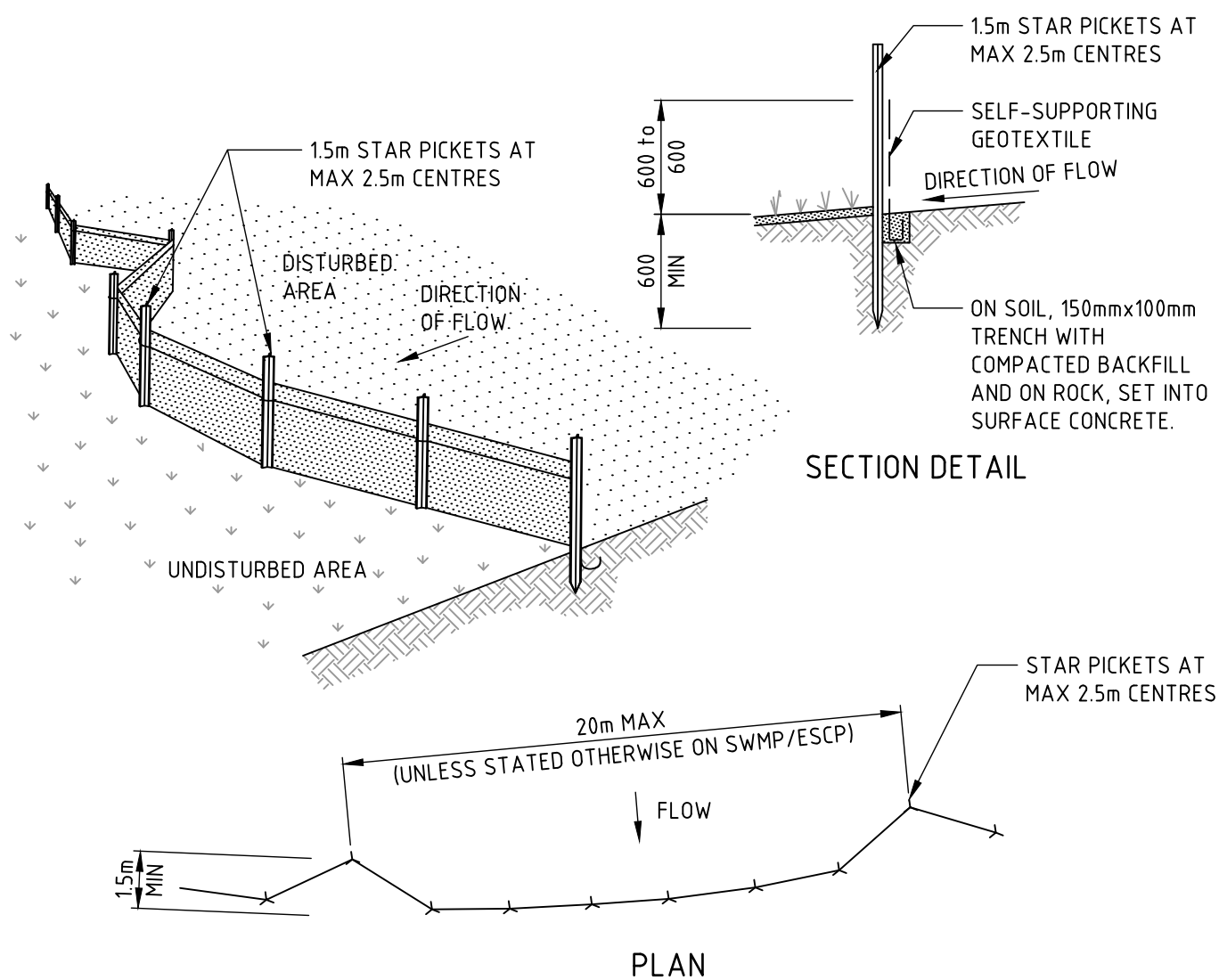
NOTE: ONLY TO BE USED AS TEMPORARY BANK WHERE MAXIMUM UPSLOPE LENGTH IS 80 METRES. EARTH BANK - LOW FLOW (SD 5-5)



CONSTRUCTION NOTES

1. STRIP THE TOPSOIL, LEVEL THE SITE AND COMPACT THE SUBGRADE.
2. COVER THE AREA WITH NEEDLE-PUNCHED GEOTEXTILE.
3. CONSTRUCT A 200mm THICK PAD OVER THE GEOTEXTILE USING ROAD BASE OR 30mm AGGREGATE.
4. ENSURE THE STRUCTURE IS AT LEAST 15 METRES LONG OR TO BUILDING ALIGNMENT AND AT LEAST 3 METRES WIDE.
5. WHERE A SEDIMENT FENCE JOINS ONTO THE STABILISED ACCESS, CONSTRUCT A HUMP IN THE STABILISED ACCESS TO DIVERT WATER TO THE SEDIMENT FENCE.

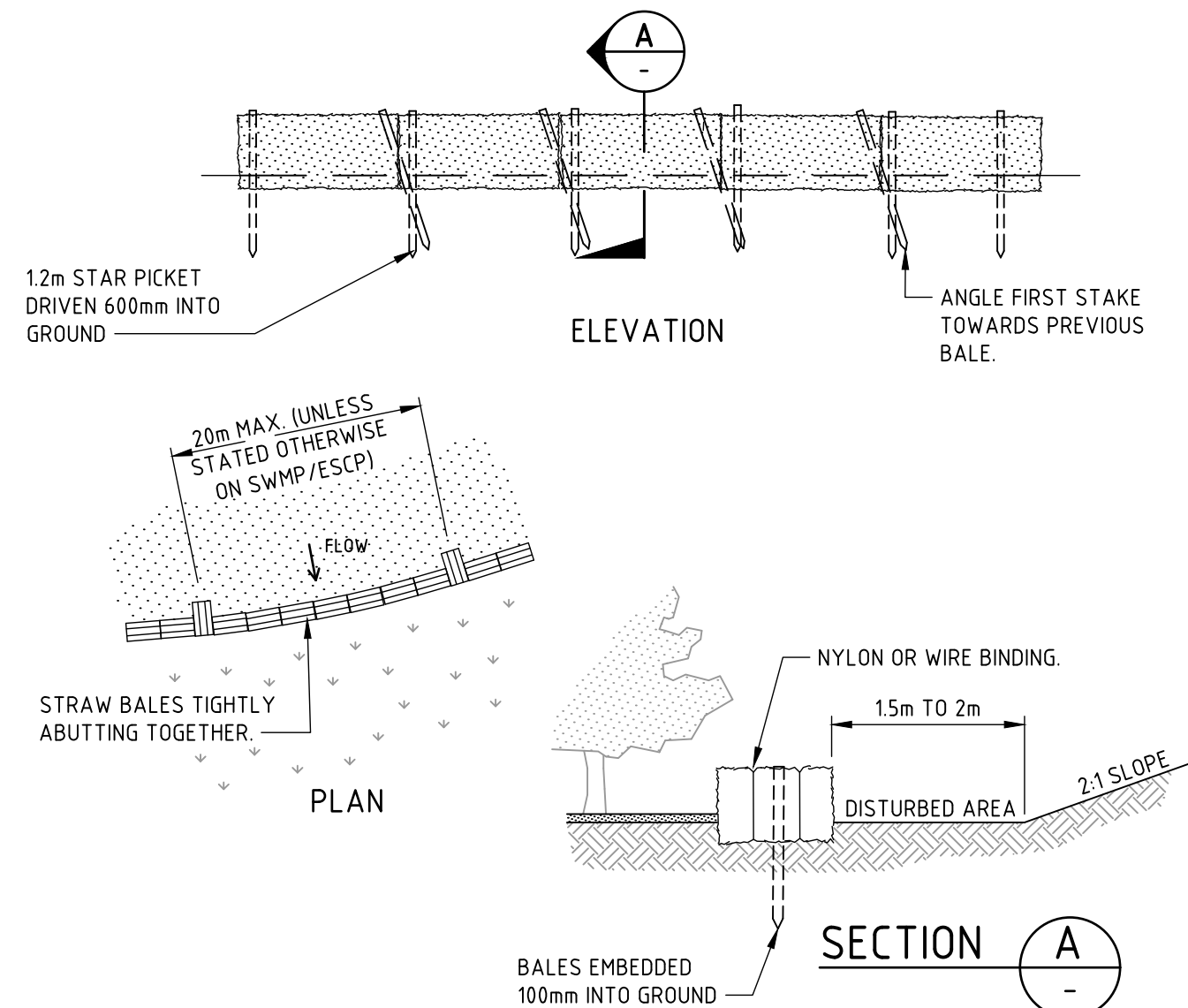
STABILISED SITE ACCESS (SD 6-14)



CONSTRUCTION NOTES

1. CONSTRUCT SEDIMENT FENCES AS CLOSE AS POSSIBLE TO BEING PARALLEL TO THE CONTOURS OF THE SITE, BUT WITH SMALL RETURNS AS SHOWN IN THE DRAWING TO LIMIT THE CATCHMENT AREA OF ANY ONE SECTION. THE CATCHMENT AREA SHOULD BE SMALL ENOUGH TO LIMIT WATER FLOW IF CONCENTRATED AT ONE POINT TO 50 LITRES PER SECOND IN THE DESIGN STORM EVENT, USUALLY THE 10-YEAR EVENT.
2. CUT A 150mm DEEP TRENCH ALONG THE UPSLOPE LINE OF THE FENCE FOR THE BOTTOM OF THE FABRIC TO BE ENTRENCHED.
3. DRIVE 15 METRE LONG STAR PICKETS INTO GROUND AT 2.5 METRE INTERVALS (MAX) AT THE DOWNSLOPE EDGE OF THE TRENCH. ENSURE ANY STAR PICKETS ARE FITTED WITH SAFETY CAPS.
4. FIX SELF-SUPPORTING GEOTEXTILE TO THE UPSLOPE SIDE OF THE POSTS ENSURING IT GOES TO THE BASE OF THE TRENCH. FIX THE GEOTEXTILE WITH WIRE TIES OR AS RECOMMENDED BY THE MANUFACTURER. ONLY USE GEOTEXTILE SPECIFICALLY PRODUCED FOR SEDIMENT FENCING. THE USE OF SHADE CLOTH FOR THIS PURPOSE IS NOT SATISFACTORY.
5. JOIN SECTIONS OF FABRIC AT A SUPPORT POST WITH A 150mm OVERLAP.
6. BACKFILL THE TRENCH OVER THE BASE OF THE FABRIC AND COMPACT IT THOROUGHLY OVER THE GEOTEXTILE.

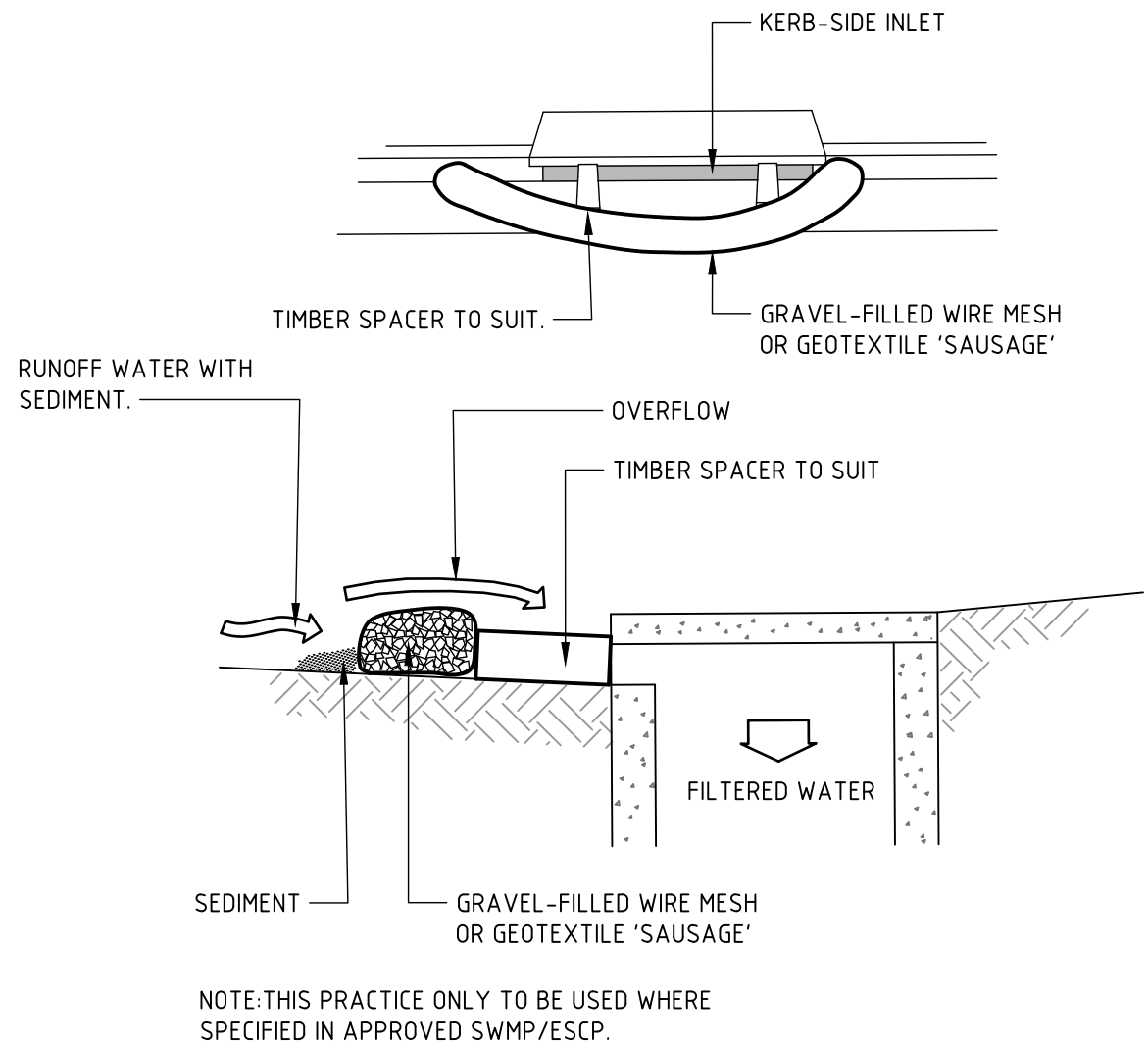
SEDIMENT FENCE (SD 6-8)



CONSTRUCTION NOTES

1. CONSTRUCT THE STRAW BALE FILTER AS CLOSE AS POSSIBLE TO BEING PARALLEL TO THE CONTOURS OF THE SITE.
2. PLACE BALES LENGTHWISE IN A ROW WITH ENDS TIGHTLY ABUTTING. USE STRAW TO FILL ANY GAPS BETWEEN BALES. STRAWS ARE TO BE PLACED PARALLEL TO GROUND.
3. ENSURE THAT THE MAXIMUM HEIGHT OF THE FILTER IS ONE BALE.
4. EMBE EACH BALE IN THE GROUND 75mm TO 100mm AND ANCHOR WITH TWO 1.2 METRE STAR PICKETS OR STAKES. ANGLE THE FIRST STAR PICKET OR STAKE IN EACH BALE TOWARDS THE PREVIOUSLY LAID BALE. DRIVE THEM 600mm INTO THE GROUND AND, IF POSSIBLE, FLUSH WITH THE TOP OF THE BALES. WHERE STAR PICKETS ARE USED AND THEY PROTRUDE ABOVE THE BALES, ENSURE THEY ARE FITTED WITH SAFETY CAPS.
5. WHERE A STRAW BALE FILTER IS CONSTRUCTED DOWNSLOPE FROM A DISTURBED BATTER, ENSURE THE BALES ARE PLACED 1 TO 2 METRES DOWNSLOPE FROM THE TOE.
6. ESTABLISH A MAINTENANCE PROGRAM THAT ENSURES THE INTEGRITY OF THE BALES IS RETAINED - THEY COULD REQUIRE REPLACEMENT EACH TWO TO FOUR MONTHS.

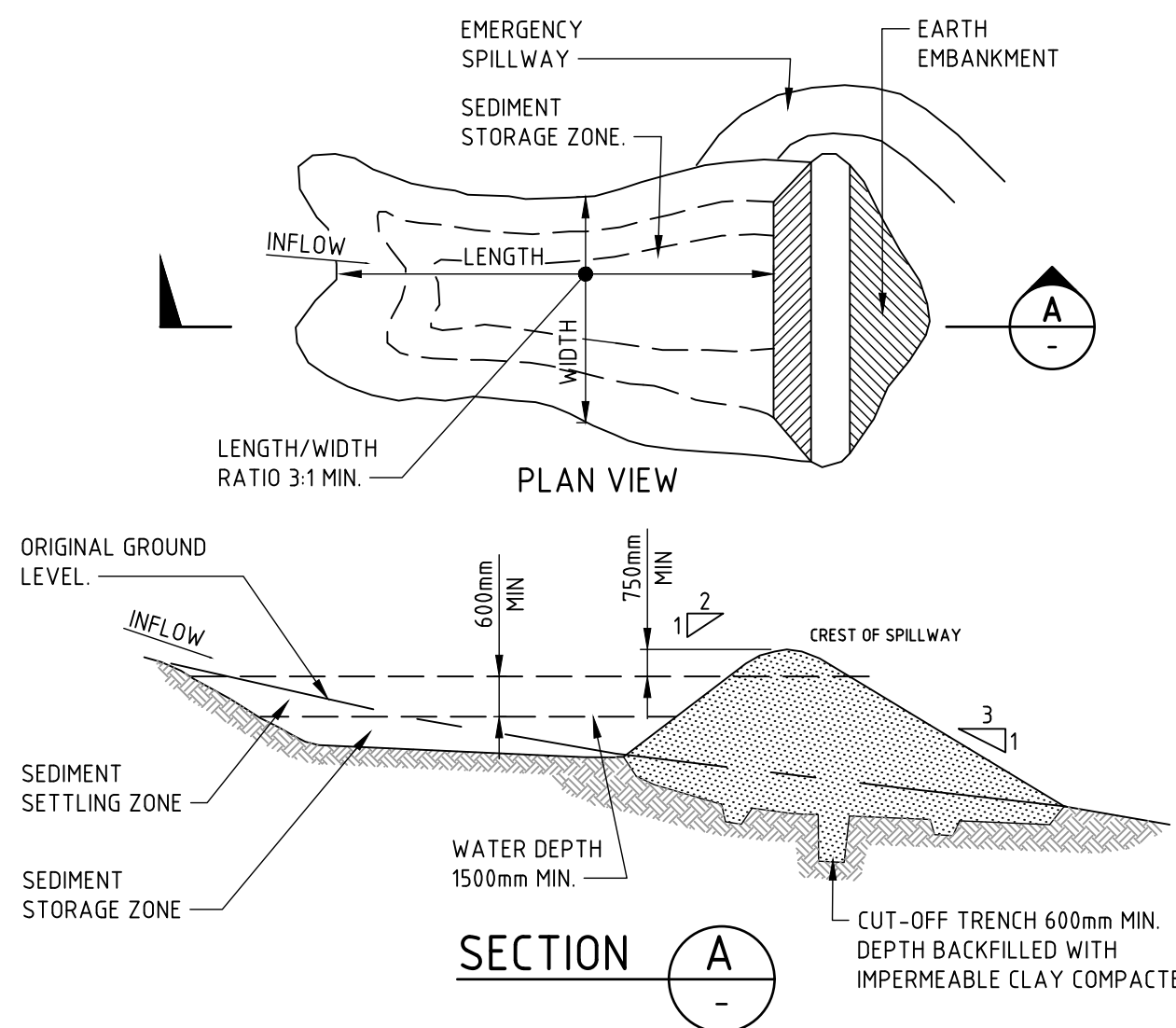
STRAW BALE FILTER



CONSTRUCTION NOTES

1. INSTALL FILTERS TO KERB INLETS ONLY AT SAG POINTS.
2. FABRICATE A SLEEVE MADE FROM GEOTEXTILE OR WIRE MESH LONGER THAN THE LENGTH OF THE INLET PIT AND FILL IT WITH 25mm TO 50mm GRAVEL.
3. FORM AN ELLIPTICAL CROSS-SECTION ABOUT 150mm HIGH x 400mm WIDE.
4. PLACE THE FILTER AT THE OPENING LEAVING AT LEAST A 100mm SPACE BETWEEN IT AND THE KERB INLET. MAINTAIN THE OPENING WITH SPACER BLOCKS.
5. FORM A SEAL WITH THE KERB TO PREVENT SEDIMENT BYPASSING THE FILTER.
6. SANDBAGS FILLED WITH GRAVEL CAN SUBSTITUTE FOR THE MESH OR GEOTEXTILE PROVIDING THEY ARE PLACED SO THAT THEY FIRMLY ABUT EACH OTHER AND SEDIMENT-LADEN WATERS CANNOT PASS BETWEEN.

MESH AND GRAVEL INLET FILTER (SD 6-11)



CONSTRUCTION NOTES

1. REMOVE ALL VEGETATION AND TOPSOIL FROM UNDER THE DAM WALL AND FROM WITHIN THE STORAGE AREA.
2. CONSTRUCT A CUT-OFF TRENCH 500mm DEEP AND 1200mm WIDE ALONG THE CENTRELIN OF THE EMBANKMENT EXTENDING TO A POINT ON THE GULLY WALL LEVEL WITH THE RISER CREST.
3. MAINTAIN THE TRENCH FREE OF WATER AND RECOMPACT THE MATERIALS WITH EQUIPMENT AS SPECIFIED IN THE SWMP TO 95 PER CENT STANDARD PROCTOR DENSITY.
4. SELECT FILL FOLLOWING THE SWMP THAT IS FREE OF ROOTS, WOOD, ROCK, LARGE STONE OR FOREIGN MATERIAL.
5. PREPARE THE SITE UNDER THE EMBANKMENT BY RIPPING TO AT LEAST 100mm TO HELP BOND COMPACTED FILL TO THE EXISTING SUBSTRATE.
6. SPREAD THE FILL IN 100mm TO 150mm LAYERS AND COMPACT IT AT OPTIMUM MOISTURE CONTENT FOLLOWING THE SWMP.
7. CONSTRUCT THE EMERGENCY SPILLWAY.
8. REHABILITATE THE STRUCTURE FOLLOWING THE SWMP.

(APPLIES TO 'TYPE D' AND 'TYPE F' SOILS ONLY) EARTH BASIN - WET

NOT FOR CONSTRUCTION

DESIGNED: B. FIELD
DRAWN: C. PASKE
JOB MANAGER: M. SANTIAGO
VERIFIER: S. FRYER

REVISION	DESCRIPTION	ISSUED	VER'D	APP'D	DATE
A	ISSUE FOR TENDER	JO	-	MS	16.11.20



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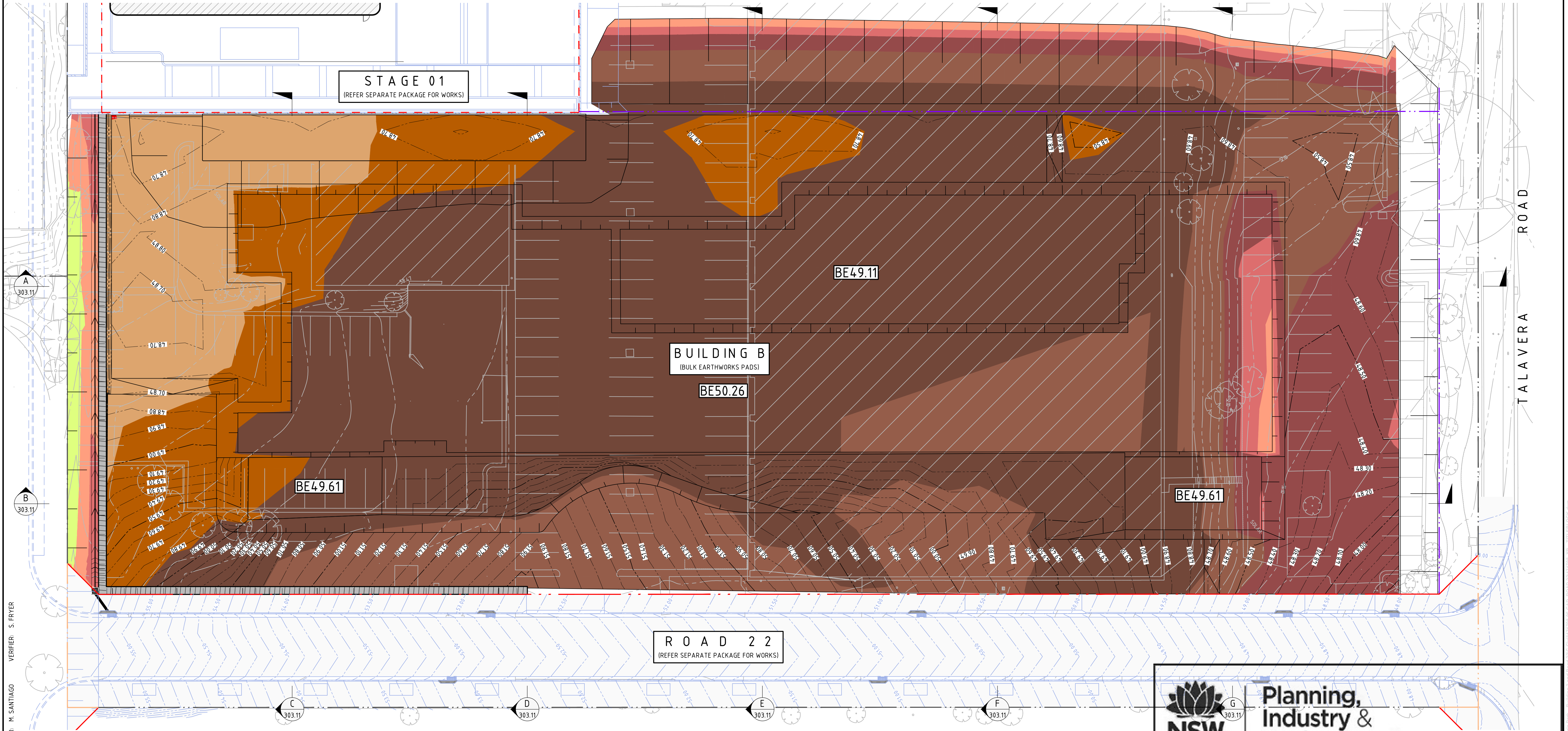


PROJECT
M_PARK - BUILDING B
33 TALAVERA ROAD & 11-17 KHARTOUM ROAD MACQUARIE PARK

DRAWING TITLE
CIVIL ENGINEERING PACKAGE TENDER SUBMISSION
SEDIMENT AND SOIL EROSION CONTROL DETAILS

JOB NUMBER 171708-07	REVISION A
DRAWING NUMBER C302.11	
DRAWING SHEET SIZE = A1	

DRAWN: C. PASKE
DESIGNED: B. FIELD
JOB MANAGER: M. SANTIAGO
VERIFIER: S. FRYER



LEGEND

- PROPOSED BOUNDARY LINE
- EXISTING BOUNDARY LINE
- PROPOSED LEASE LINE
- BULK EARTHWORKS PAD LEVEL
- BATTERS
- RETAINING WALL
- WORKS AS PART OF SEPARATE PACKAGE

DEPTH OF CUT

	-10.0m TO -8.0m
	-8.0m TO -6.0m
	-6.0m TO -4.0m
	-4.0m TO -2.0m
	-2.0m TO -1.0m
	-1.0m TO -0.5m
	-0.5m TO -0.0m

DEPTH OF FILL

	0.0m TO 0.5m
	0.5m TO 1.0m
	1.0m TO 2.0m
	2.0m TO 3.0m
	3.0m TO 4.0m
	4.0m TO 5.0m
	5.0m TO 6.0m

GENERAL NOTES:

- REFER SPECIFICATIONS NOTES FOR EARTHWORKS GENERAL REQUIREMENTS.
- ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH COUNCIL / RELEVANT AUTHORITY SPECIFICATIONS AND DETAILS.
- CAD FILES / DTM FILES TO BE SUPPLIED IN AUTOCAD FORMAT FOR SETOUT PURPOSES (UPON REQUEST).
- STRIP EXISTING TOPSOIL IN CONSULTATION WITH THE GEOTECHNICAL ENGINEER / REPORT. NO TOPSOIL STRIPPING ASSUMPTIONS HAVE BEEN ALLOWED FOR.
- NOTE ALL VOLUMES DEPICTED ARE SOLID VOLUMES ONLY AND MAY NOT REFLECT DETAILED EARTHWORKS.
- NO ALLOWANCE HAS BEEN MADE FOR DETAILED EARTHWORKS, ie SERVICE TRENCHING, DETAILED EXCAVATION, FOOTINGS, RETAINING WALLS AND THE LIKE. CONTRACTOR IS TO ALLOW FOR REMOVAL OF ALL EXCESS MATERIAL GENERATED BY THE WORKS.
- NO ALLOWANCE HAVE BEEN MADE TO CONSIDER GSW ROCK MATERIAL. REFER GEOTECHNICAL REPORT.
- PAVEMENT THICKNESS ASSUMPTIONS HAVE BEEN DERIVED FROM PRELIMINARY AWS PLANS RECEIVED ON 03.11.20. REFER SYD066-ACM-XX-00-SK-C-0017 R1
- THE CONTRACTOR SHALL USE FINAL SURFACE LEVELS AND TYPICAL PAVEMENT DETAILS FOR ACTUAL EARTHWORKS LEVELS.
- BULK EARTHWORKS ARE BASED ON THE FOLLOWING DEPTHS FROM FINISHED SURFACE LEVELS; (REFER AWS DRAWINGS)
- 8.1. BLDG 190mm
- 8.2. TANK ROOM 240mm
- 8.3. GEN STACK 190mm
- 8.4. EXTERNAL TRUCK PAVEMENT 01 610mm
- 8.5. EXTERNAL TRUCK PAVEMENT 02/03 460mm
9. APPROXIMATE BULK EARTHWORK VALUES AS FOLLOWS;
- 9.1. CUT 52 305 cu.m
- 9.2. FILL 160 cu.m
- 9.3. BALANCE 52 145 cu.m
- 9.4. NOTE: SITE STRIPPING VOLUMES HAVE NOT BEEN INCLUDED IN ABOVE CALCULATIONS.
- TEMPORARY 1:1 SLOPES FOR EXCAVATIONS HAVE BEEN ADOPTED (UNO). CONTRACTOR TO CONFIRM ADEQUACY WITH GEOTECHNICAL ENGINEER.



Planning,
Industry &
Environment

Issued under the Environmental Planning and Assessment Act 1979

Approved Application No: SSD-10467

Granted on: 28 May 2021

Signed: JF

Sheet No: 21 of 44

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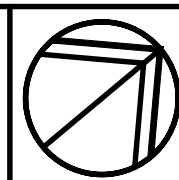
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Stockland

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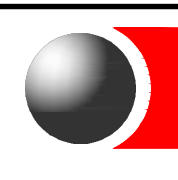
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PROJECT

M_PARK - BUILDING B
33 TALAVERA ROAD &
11-17 KHARTOUM ROAD
MACQUARIE PARK

DRAWING TITLE

CIVIL ENGINEERING PACKAGE
TENDER SUBMISSION
BULK EARTHWORKS
CUT TO FILL PLAN

JOB NUMBER

171708-07

DRAWING NUMBER

C303.01

REVISION

A

DRAWING SHEET SIZE = A1

