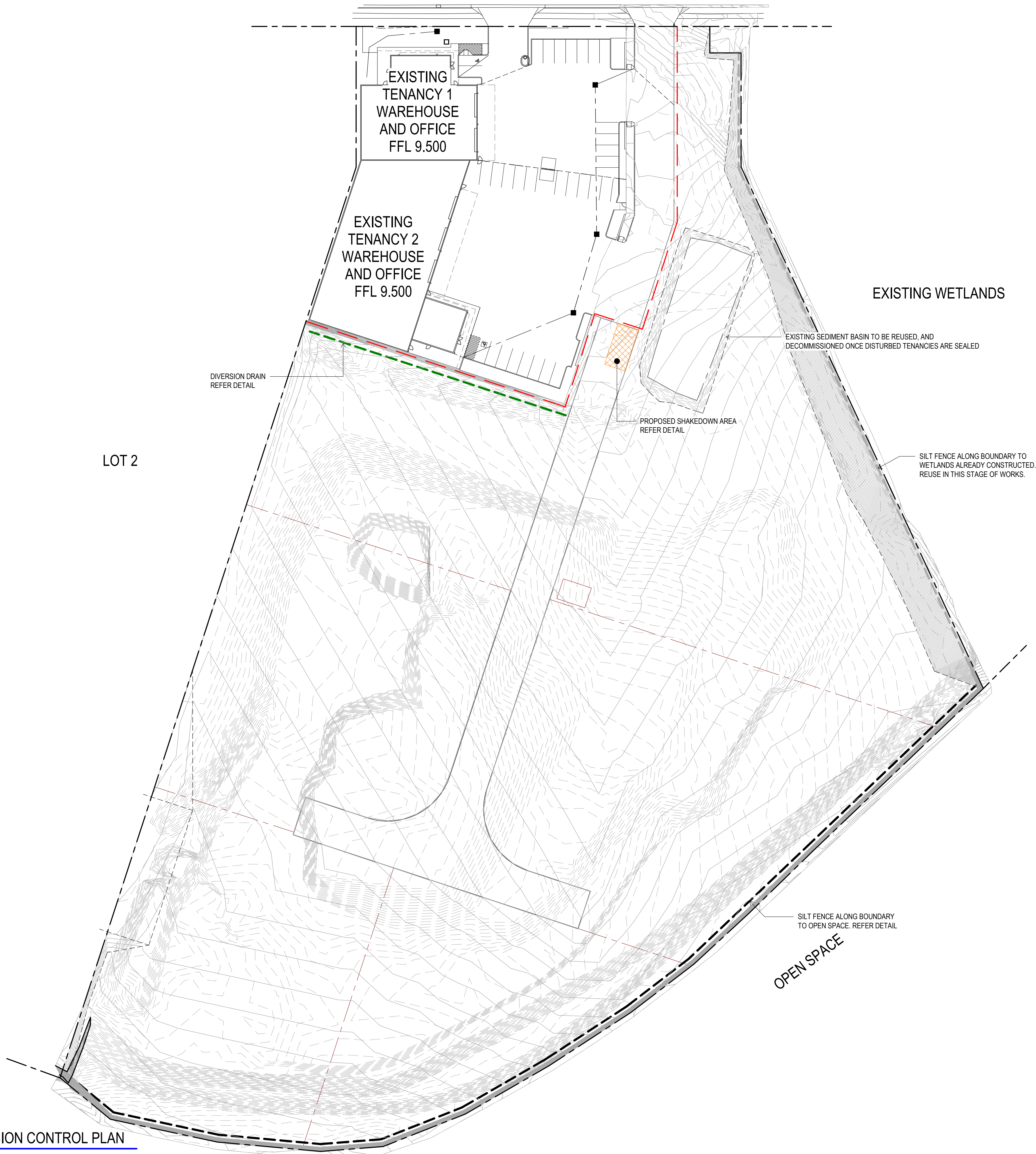


CHRISTENSEN ROAD SOUTH



PROJECT TEAM

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Signature: *T. Smith*

Date: 13 / 10 / 2020

SEDIMENT & EROSION LEGEND

LINE	DESCRIPTION
---	PROPERTY BOUNDARY
- - -	FUTURE TENANCY BOUNDARIES
- - -	EXTENT OF WORKS
---	EXISTING SURFACE CONTOURS
---	BULK EARTHWORKS CONTOURS
---	SILT FENCE
---	DIVERSION DRAIN

B	FOR APPROVAL	13.10.2020	K.J.L.
A	FOR REVIEW	25.09.2020	K.J.L.
REV	DESCRIPTION	DATE	BY

Status

FOR APPROVAL

NOT TO BE USED FOR CONSTRUCTION

Project
LOT 1, 84-160 CHRISTENSEN
ROAD SOUTH, STAPYLTON

for
MS PROJECTS

Title
SEDIMENT AND EROSION
CONTROL PLAN

Drawn	Date	Chkd	Date
K.J.L.	25.09.2020	T.J.S.	
Design	Date	Apprd	Date
K.J.L.			
Scale	A1	Certif	Date
As indicated			
Project No.	Dwg. No.	Rev	
19-130	C101	B	

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SILT MANAGEMENT PLAN NOTES

1. CONSTRUCT SEDIMENT CONTROL FILTER FABRIC SILT FENCE PRIOR TO THE COMMENCEMENT OF ANY OTHER SITE WORKS.
2. ENSURE NO RUN OFF OR SEDIMENT DISCHARGES TO STREET OR ADJOINING PROPERTIES.
3. CHECK SILT TRAP PITS FOR BUILD UP OF SEDIMENT AND CLEAN OUT AS REQUIRED.
4. CONTRACTOR TO NOMINATE SITE REPRESENTATIVE TO BE RESPONSIBLE FOR THE IMPLEMENTATION AND UP KEEP OF THE SILTATION AND EROSION MANAGEMENT CONTROL PLAN.
5. CONSTRUCTION OF ALL SEDIMENT MANAGEMENT DEVICES SHALL BE COMPLETED AND EFFECTIVE PRIOR TO:
 - STRIPPING OF TOPSOIL AND GRASS
 - BULK EARTHWORKS TO THE SITE
 - SERVICE INSTALLATION
6. ALL SEDIMENT MANAGEMENT DEVICES ARE TO REMAIN UNTIL WRITTEN NOTICE FROM THE CONSULTING ENGINEER.
7. BOTH TEMPORARY AND PERMANENT SEDIMENT MANAGEMENT DEVICES SHALL BE MAINTAINED AT A SUITABLE LEVEL/CONDITION THROUGHOUT CONSTRUCTION.
8. SEDIMENT FENCES ARE TO BE CLEANED OUT WHEN CAPACITY IS REDUCED BY 30%.
9. LICENSING AND COMPLIANCE FOR THE LOCATION OF THE SITE ACCESS POINT AND WASH DOWN AREA WHICH ARE TO BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD.
10. CHRISTENSEN ROAD SOUTH IS TO BE VISUALLY INSPECTED DAILY TO ENSURE THAT NO SEDIMENT IS TRACKED FROM THE SITE. BROOM OR SWEEP AS REQUIRED TO REMEDY ANY TRACKING.
11. ALL EROSION AND SEDIMENT CONTROLS TO REMAIN IN PLACE UNTIL UPSLOPE LANDS ARE STABLE AND REHABILITATED.
12. DUST SUPPRESSION MUST BE UNDERTAKEN TO MINIMISE THE RISK OF DUST RISE. SUITABLE MEASURES TO ACHIEVE THIS INCLUDE:
 - WATER TRUCKS
 - TEMPORARY VEGETATION AND MULCHING
 - EROSION CONTROL BLANKETS
 - SOIL BINDERS
 - ADOPTING SPEED LIMITATIONS FOR SITE VEHICLES
 - STOCKPILE STABILISATION

STOCKPILE MANAGEMENT NOTES

MATERIAL	STOCKPILE COVER	COMMENTS
SAND	NO COVER	WHEN WIND EROSION AND DUST CONTROL IS NOT AN ISSUE
	SYNTHETIC COVER, POROUS OR NOT POROUS	BY THE END OF THE WHEN THE CONTROL OF WIND EROSION IS ESSENTIAL FOR REASONS OF SAFETY
SOIL	NO COVER	WHEN WIND EROSION AND DUST CONTROL IS NOT AN ISSUE
	MULCHING, VEGETATIVE COVER, CHEMICAL STABILISERS, SOIL BINDERS OR IMPERVIOUS BLANKET	LONG TERM (>28 DAYS) STOCKPILING OF DISPERSIVE SOILS.
		LONG TERM (>28 DAYS) STOCKPILING OF CLAYEY SOILS WHEN TURBIDITY CONTROL IS DESIRABLE.
		LONG TERM (>6/10 DAYS) SOIL STOCKPILES DURING MONTHS OF EXTERME/HIGH EROSION RISK (JANUARY, FEBRUARY, MARCH, APRIL, NOVEMBER, DECEMBER)
		SHORT AND LONG TERM STOCKPILES OF CLAYEY SOILS WHEN TURBIDITY CONTROL IS ESSENTIAL.

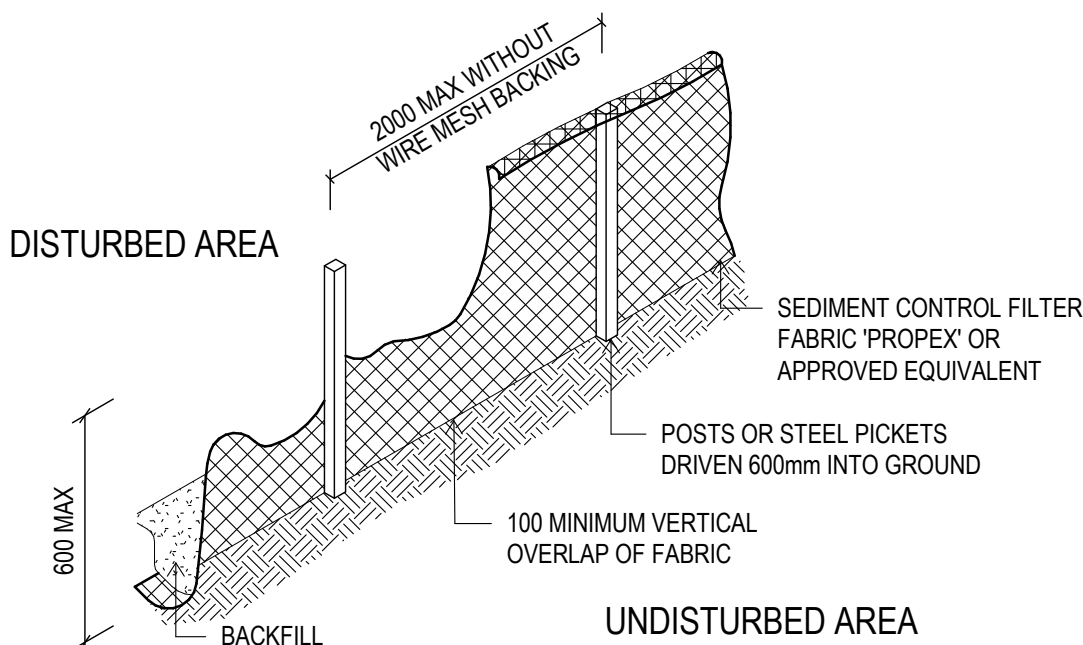
OPERATION & MAINTENANCE NOTES

ALL ESC MEASURES MUST BE INSPECTED:
- AT LEAST DAILY (WHEN WORK IS OCCURRING ON SITE) OR WEEKLY (WHEN WORK IS NOT OCCURRING ON SITE);
- WITHIN 24 HOURS OF EXPECTED RAIN; AND
- WITHIN 18 HOURS OF A RAINFALL EVENT (ie AN EVENT OF SUFFICIENT INTENSITY AND DURATION TO MOBILISE SEDIMENT ON SITE).

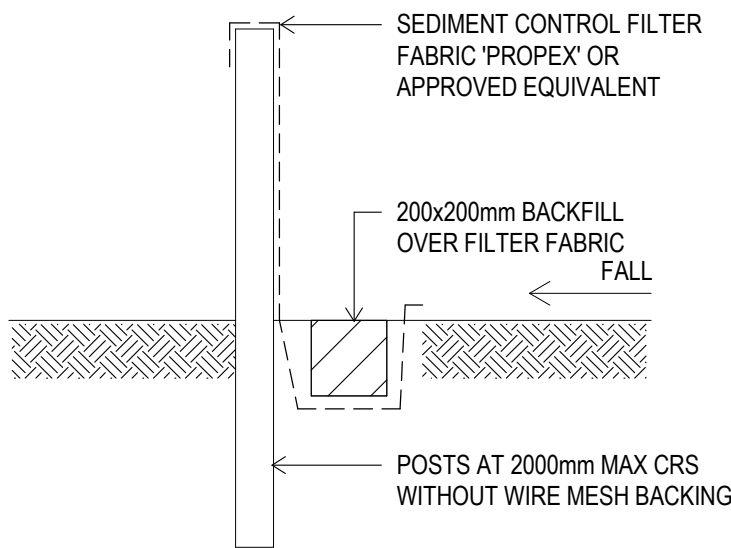
ESC MEASURE	MAINTENANCE TRIGGER	TIMEFRAME FOR COMPLETION OF MAINTENANCE
SEDIMENT BASINS	WHEN SETTLED SEDIMENT EXCEEDS THE VOLUME OF THE SEDIMENT STORAGE ZONE (SEE COUNCIL'S SEDIMENT BASIN DESIGN GUIDELINES).	WITHIN 7 DAYS OF THE INSPECTION.
OTHER ESC MEASURES	THE CAPACITY OF ESC MEASURES FALLS BELOW 75%.	BY THE END OF THE DAY

PRIOR TO LONG PERIOD OF SHUT DOWN ALL ESC MEASURES TO BE INSPECTED AND CLEANED. SEDIMENT BASIN CAPACITY TO BE CHECKED AND SIZE INCREASED IF REQUIRED FOR SHUT DOWN PERIOD.

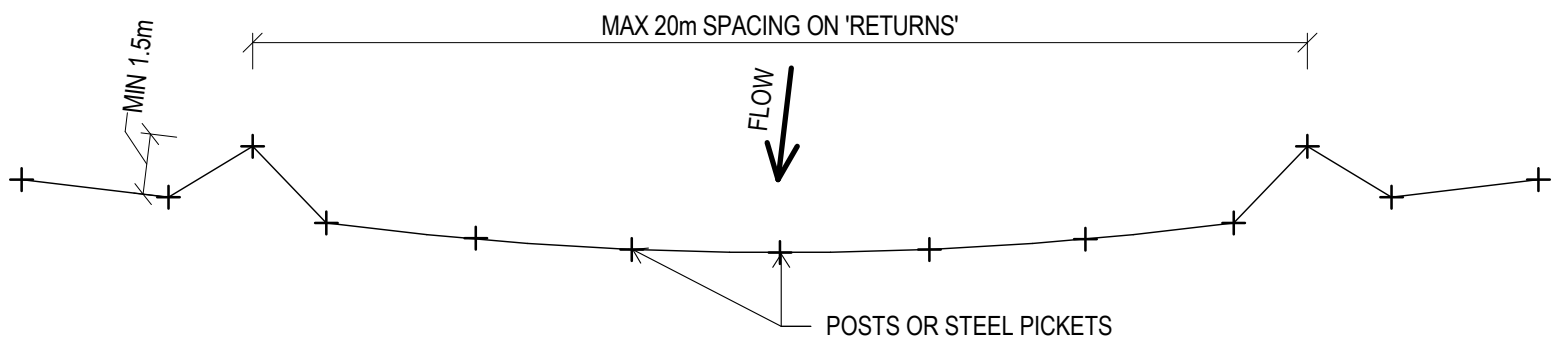
FOR MANAGEMENT OF WATER QUALITY DURING BACK TO BACK RAINFALL EVENTS, MANAGED DEWATERING OF THE SEDIMENT BASIN IS PERMITTED WHEN TSS IS LESS THAN OR EQUAL TO 50mg/L. FLOCCULATION USING MINERAL GYPSUM MAYBE REQUIRED.



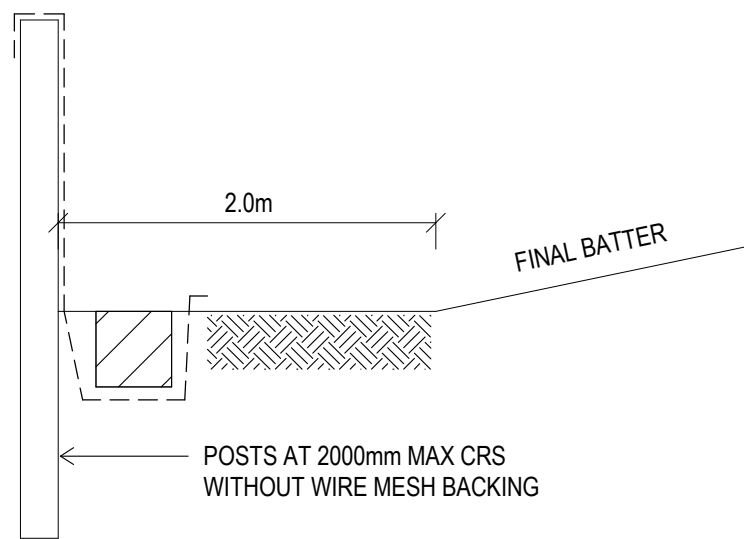
SILT FENCE PERSPECTIVE



SILT FENCE SECTION



SILT FENCE PLAN

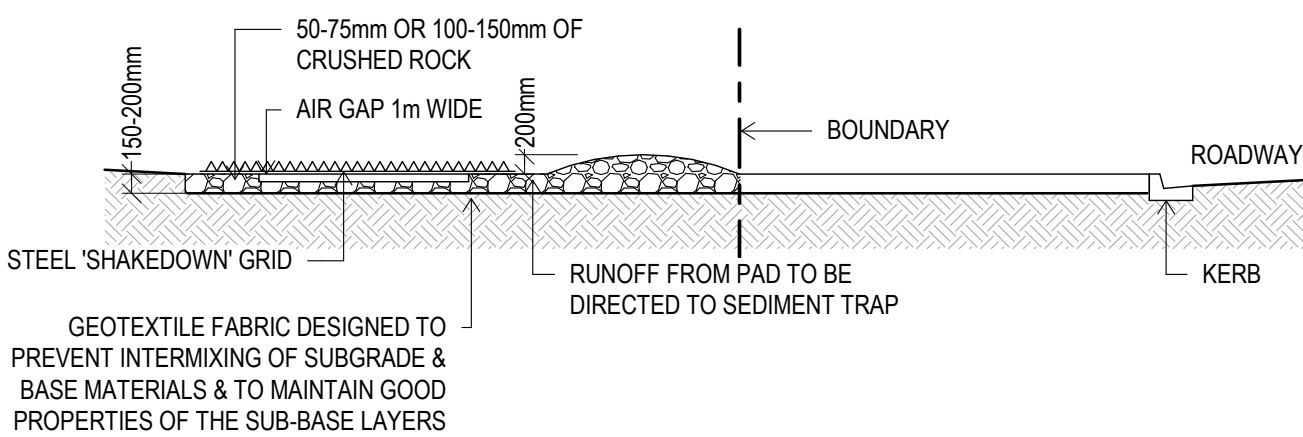
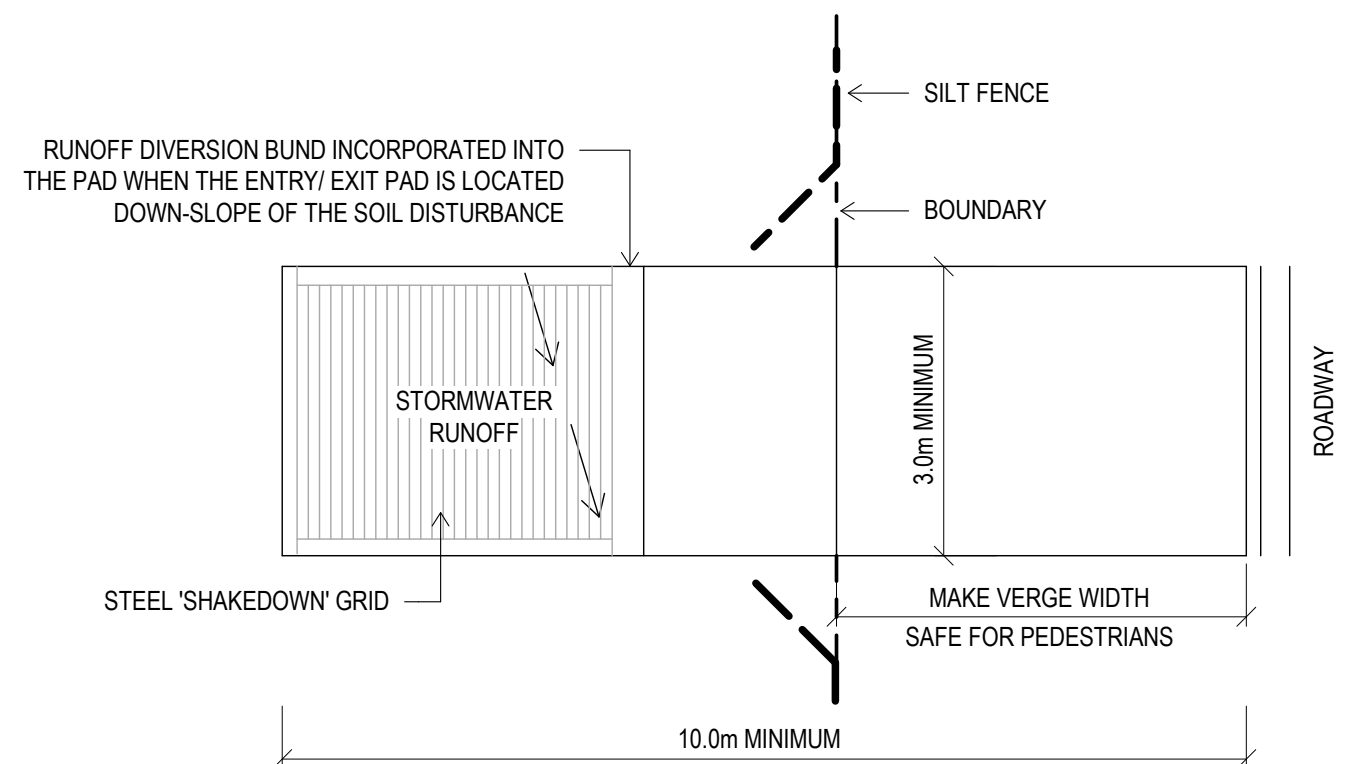


LOCATION OF FENCE RELATIVE TO BASE OF SLOPE

3

SILT FENCE DETAIL

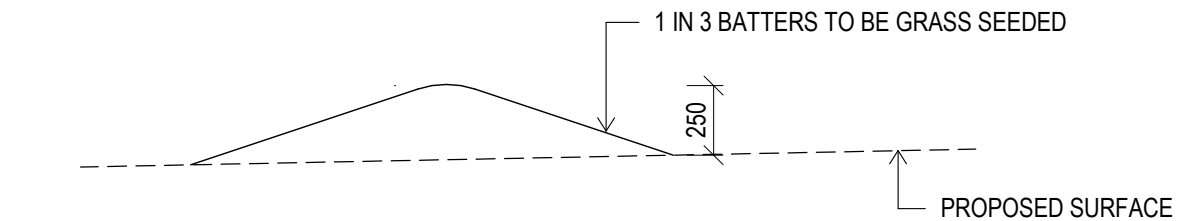
1 : 20



4

SHAKEDOWN DETAIL

1 : 1



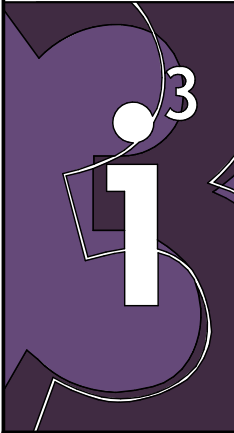
10

DIVERSION DRAIN DETAIL

1 : 25

PROJECT TEAM

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Signature: *T. Smith*

Date: *13* / *10* / *2020*

SEDIMENT CONTROL DEVICE DETAILS

AMENDED EXTRACTS FROM IECA STANDARDS

B	FOR APPROVAL	13.10.2020	K.J.L.
A	FOR REVIEW	25.09.2020	K.J.L.
REV	DESCRIPTION	DATE	BY

Status

FOR APPROVAL

NOT TO BE USED FOR CONSTRUCTION

Project

**LOT 1, 84-160 CHRISTENSEN
ROAD SOUTH, STAPYLTON**

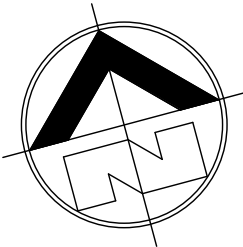
for
MS PROJECTS

Title

**SEDIMENT AND EROSION
CONTROL DETAILS**

Drawn	Date	Chkd	Date
K.J.L.	25.09.2020	T.J.S.	
Design	Date	Apprd	Date
K.J.L.			
Scale	A1	Certif	Date
As indicated			
Project No.	Dwg. No.	Rev	
19-130	C102	B	

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CHRISTENSEN ROAD SOUTH

NOTE:
DISTURBED TENANCY BLOCKS ARE TO BE SEALED. ONCE EARTHWORKS ARE COMPLETE, TENANCIES ARE TO BE TOP SOILED, AND GRASS SEED AND FERTILISED.

- EARTHWORKS CONSTRUCTION PROCESS:**
1. CLEARING AND STRIPPING OF THE BATTER TO REAR OF THE LOT.
 2. CONSTRUCT BOULDER RETAINING WALL AND FILL IN THE BATTER AS REQUIRED FOR THE WALL CONSTRUCTION.
 3. STRIP HALF THE SITE.
 4. FILL AND COMPACT THE STRIPPED SECTION OF THE SITE UNDER LEVEL 1 SUPERVISION.
 5. STRIP OTHER HALF OF THE SITE.
 6. FILL AND COMPACT THE STRIPPED SECTION OF THE SITE UNDER LEVEL 1 SUPERVISION.
 7. TOP SOIL AND SEAL THE SITE WITH GRASS SEED AND FERTILISER.

PROJECT TEAM

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Signature: 
Date: 13 / 10 / 2020

BULK EARTHWORKS LEGEND

LINE	DESCRIPTION
---	PROPERTY BOUNDARY
---	FUTURE TENANCY BOUNDARIES
---	EXTENT OF WORKS
---	EXISTING SURFACE CONTOURS
---	BULK EARTHWORKS CONTOURS
---	EXISTING SURFACE CONTOUR LABEL
---	BULK EARTHWORKS CONTOUR LABEL
---	CUT/FILL LINE
---	EXTENT OF PAVEMENT
250 THICK	PAVEMENT THICKNESS
CUT	FILL
21711.1 cub.m	18586.8 cub.m

NOTES:

1. BULK EARTHWORKS ARE TO BE GRADED LINEARLY BETWEEN EARTHWORKS POINTS.
2. REFER SEDIMENT AND EROSION CONTROL NOTES AND DETAILS.
3. REFER EARTHWORKS PLAN FOR PAVEMENT ALLOWANCES.
4. TOLERANCES REFER CONTRACT DOCUMENTATION
5. SITE BOUNDARIES TO BE CONFIRMED BY SURVEY
6. SITE SERVICES PROVIDED BY SUBDIVISION DOCUMENTATION ONLY AND IT IS THE CONTRACTORS RESPONSIBILITY TO CONFIRM ALL LOCATIONS AND HEIGHTS BEFORE COMMENCING WORK

B	FOR APPROVAL	13.10.2020	K.J.L.
A	FOR REVIEW	25.09.2020	K.J.L.
REV	DESCRIPTION	DATE	BY

Status

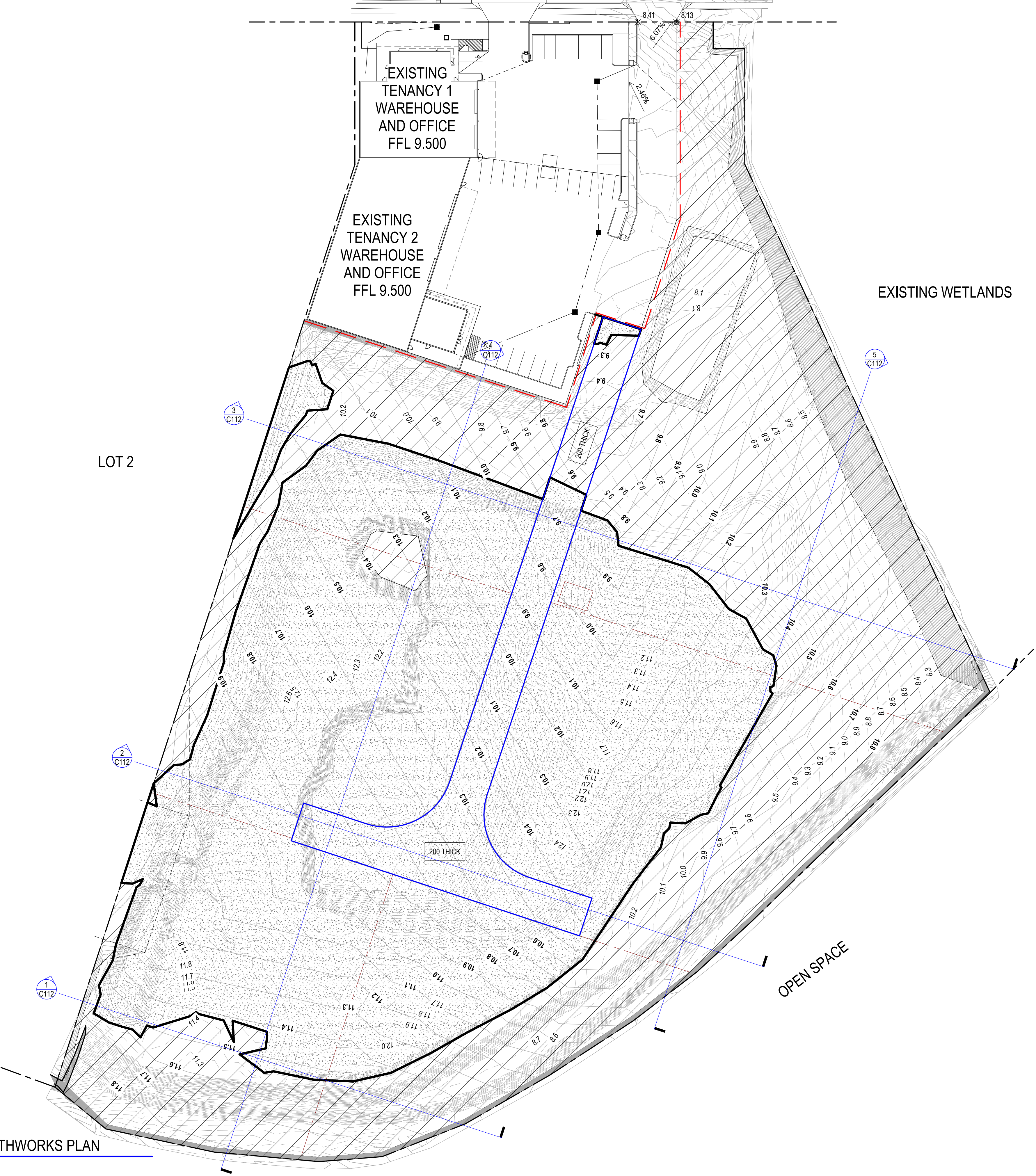
FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION

Project
LOT 1, 84-160 CHRISTENSEN ROAD SOUTH, STAPYLTON

for
MS PROJECTS

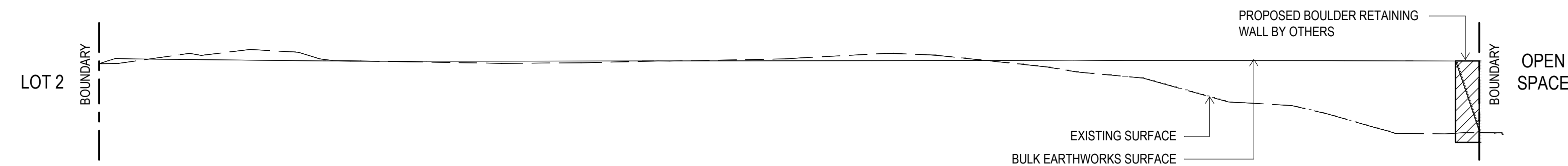
Title BULK EARTHWORKS PLAN			
Drawn K.J.L.	Date 25.09.2020	Chkd T.J.S.	Date
Design K.J.L.	Date	Apprd	Date
Scale As indicated	A1	Certif	Date
Project No. 19-130	Dwg. No. C111	Rev B	

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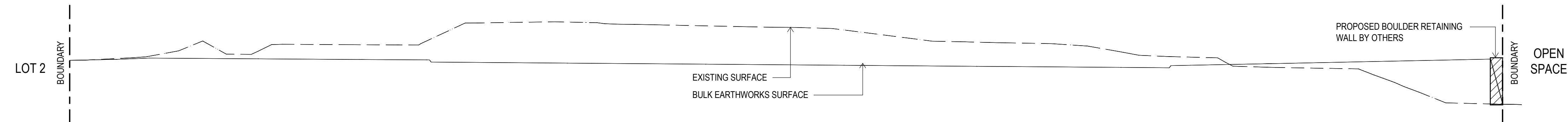


- BULK EARTHWORKS NOTES**
- THE CONTRACTOR SHALL CARRY OUT FIELD DENSITY TESTING OF BULK FILLED AREAS INCLUDING BUILDING PLATFORMS AND REPLACED INSITU MATERIAL AS PER THE FOLLOWING REQUIREMENTS:
1. WORKS TO BE IN ACCORDANCE WITH AS 3798 - 2007.
 2. TESTING TO BE IN ACCORDANCE WITH AS 1289 (RELEVANT PORTIONS).
 3. SPECIFIC TESTING REQUIREMENTS
- LEVEL ONE TESTING TO BE PROVIDED BY GEOTECHNICAL TESTING AUTHORITY (GTA).
- A DAILY GEOTECHNICAL SITE RECORD IS TO BE KEPT, REFER AS 3798, APPENDIX C
 4. QUANTITY OF TESTING TO BE NOT LESS THAN ANY OF THE FOLLOWING
- 1 TEST PER LAYER PER 2500sqm
- 1 TEST PER 500cub.m DISTRIBUTED EVENLY THROUGHOUT THE DEPTH AND AREA OF OF THE FILLING
- 3 TESTS PER VISIT BY THE GEOTECHNICAL TESTING AUTHORITY (GTA)
 5. DEGREE OF COMPACTION TO BE AS FOLLOWS
- NSL TO 500mm BELOW FSL = 95% STANDARD COMPACTION
- 500mm BELOW FSL TO FSL OR FPL = 100% STANDARD COMPACTION
 6. MATERIAL MOISTURE CONTENT TO BE IN THE RANGE OF 85% TO 115% OF OPTIMAL MOISTURE CONTENT (OMC)
 7. COMPACT SUBGRADE SURFACES IN CUT AREAS OF THE PLATFORM SHALL HAVE DRY DENSITY TESTING PERFORMED AT INTERVALS NOT LESS THAN 1 PER 2000sq.m
 8. THE EXPENSE OF THE TESTING IS THE RESPONSIBILITY OF THE CONTRACTOR.

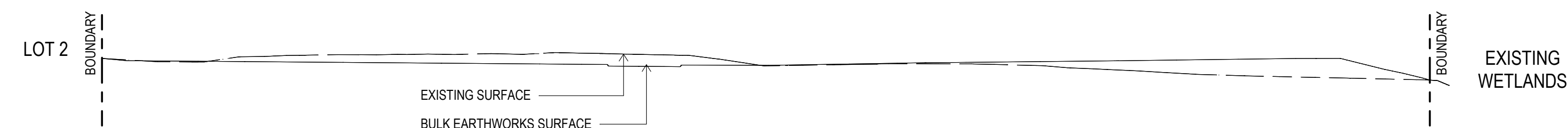
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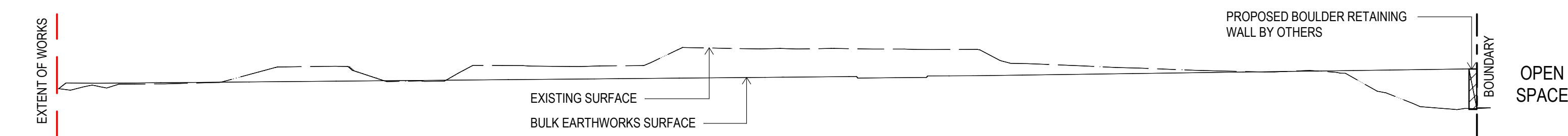
1 BULK EARTHWORKS SECTION 1
C11 1:250



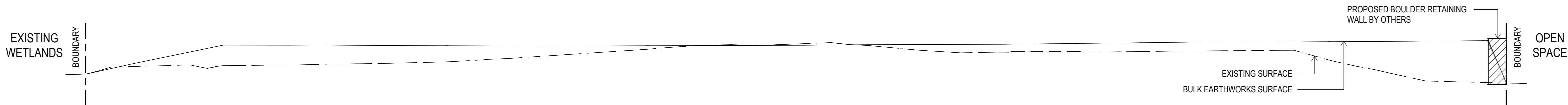
2 BULK EARTHWORKS SECTION 2
C11 1:250



3 BULK EARTHWORKS SECTION 3
C11 1:500



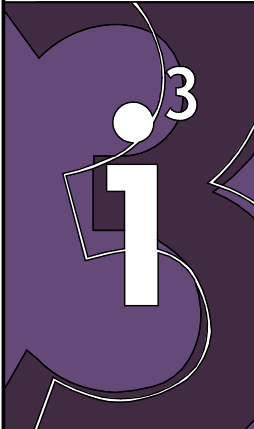
4 BULK EARTHWORKS SECTION 4
C11 1:500



5 BULK EARTHWORKS SECTION 5
C11 1:250

PROJECT TEAM

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Engineers Certification:

Travis Smith MIE Aust. CPEng.
NPER Civil
RPEQ 16400

Signature: *T. Smith*

Date: *13* / *10* / *2020*

B	FOR APPROVAL	13.10.2020	K.J.L.
A	FOR REVIEW	25.09.2020	K.J.L.
REV	DESCRIPTION	DATE	BY

Status

FOR APPROVAL

NOT TO BE USED FOR CONSTRUCTION

Project
**LOT 1, 84-160 CHRISTENSEN
ROAD SOUTH, STAPYLTON**

for
MS PROJECTS

Title
BULK EARTHWORKS SECTIONS

Drawn	Date	Chkd	Date
K.J.L.	25.09.2020	T.J.S.	
Design	Date	Apprd	Date
K.J.L.			
Scale	A1	Certif	Date
As indicated			
Project No.	Dwg. No.	Rev	
19-130	C112	B	

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CHRISTENSEN ROAD SOUTH

EXISTING
TENANCY 1
WAREHOUSE
AND OFFICE
FFL 9.500

EXISTING
TENANCY 2
WAREHOUSE
AND OFFICE
FFL 9.500

EXISTING WETLANDS

LOT 2

OPEN SPACE

NOTE:
DISTURBED TENANCY BLOCKS ARE TO BE SEALED.
ONCE EARTHWORKS ARE COMPLETE, TENANCIES
ARE TO BE TOP SOILED, AND GRASS SEEDED AND
FERTILISED.

PROJECT TEAM

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Engineers Certification:

Travis Smith MIE Aust. CPEng.
NPER Civil
RPEQ 16400

Signature: *T. Smith*

Date: 13 / 10 / 2020

FINISHED SURFACE LEGEND

LINE	DESCRIPTION
---	PROPERTY BOUNDARY
---	FUTURE TENANCY BOUNDARIES
---	EXTENT OF WORKS
---	FINISHED SURFACE CONTOURS
12.00	CONTOUR INTERVAL
---	VALLEY LINE
---	RIDGE LINE
12.00	FINISHED SURFACE SPOT HEIGHT
---	PROPOSED CONCRETE ACCESS

NOTES:

- SLABS ARE TO BE GRADED LINEARLY BETWEEN FINISHED SURFACE POINTS.
- REFER SEDIMENT AND EROSION CONTROL NOTES AND DETAILS.
- TOLERANCES REFER CONTRACT DOCUMENTATION.
- SITE BOUNDARIES TO BE CONFIRMED BY SURVEY.
- SITE SERVICES PROVIDED BY SUBDIVISION DOCUMENTATION AND SURVEY ONLY. IT IS THE CONTRACTORS RESPONSIBILITY TO CONFIRM ALL LOCATIONS AND HEIGHTS BEFORE COMMENCING WORK.
- IF KERB, CHANNEL OR FOOTPATH DAMAGED IN CONSTRUCTION, CONTRACTOR TO REINSTATE AS PER COUNCIL REQUIREMENTS.

B	FOR APPROVAL	13.10.2020	K.J.L.
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REV	DESCRIPTION	DATE	BY

Status

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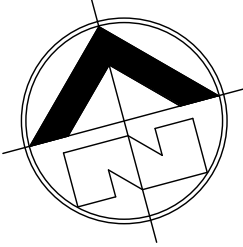
Project
**LOT 1, 84-160 CHRISTENSEN
ROAD SOUTH, STAPYLTON**

for
MS PROJECTS

Title
FINISHED SURFACE PLAN

Drawn K.J.L.	Date 25.09.2020	Chkd T.J.S.	Date
Design K.J.L.	Date	Apprd	Date
Scale As indicated	A1	Certif	Date
Project No. 19-130	Dwg. No. C121	Rev B	

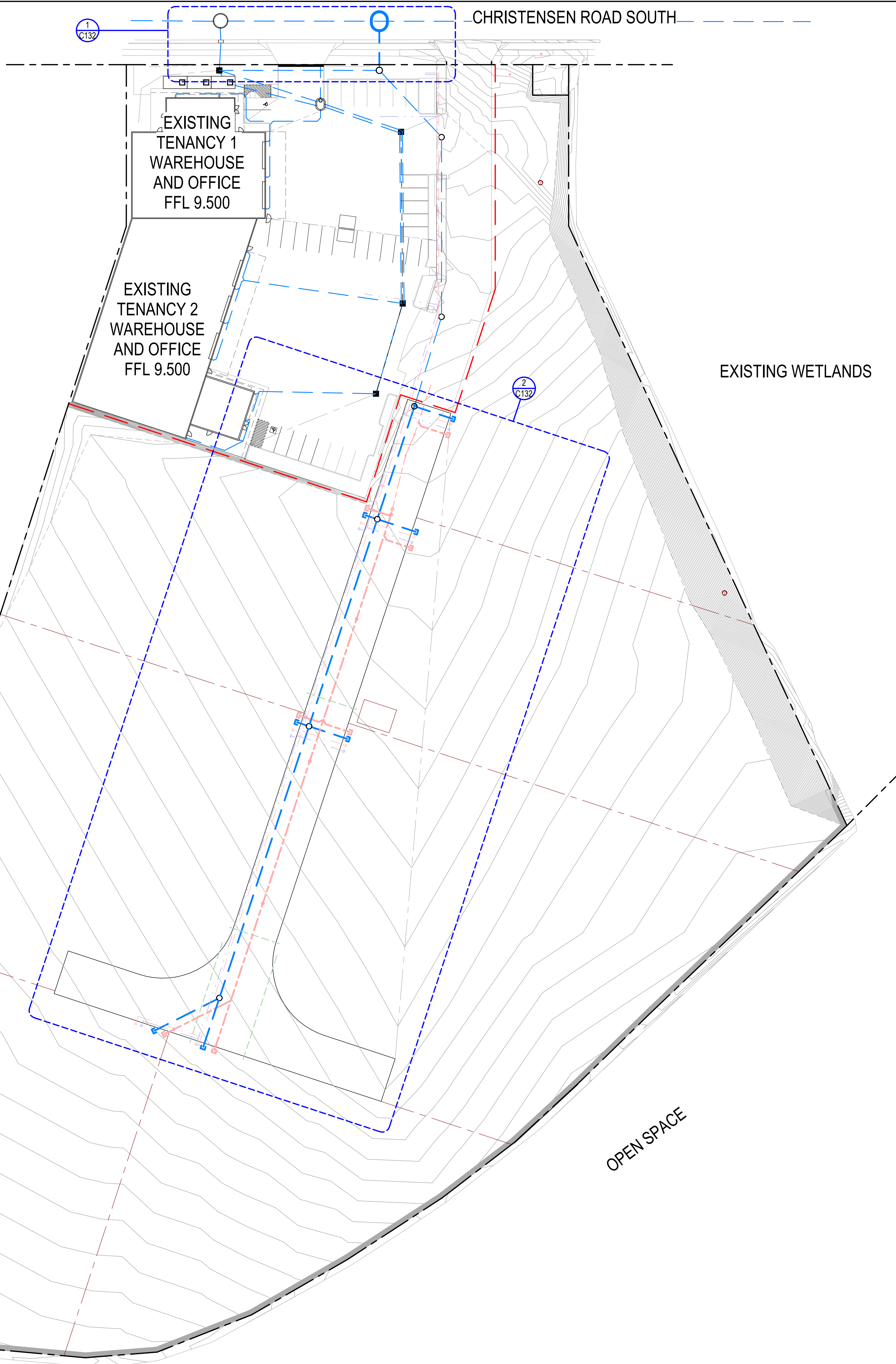
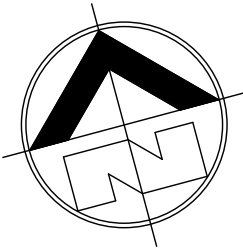
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1 FINISHED SURFACE PLAN

1 : 500

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NOTE:
STORMWATER PIPES TO EXTEND PAST
PROPOSED CONCRETE PAVEMENT 750mm

PROJECT TEAM

Consulting Engineer:

3

1

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RPEQ 16400

Signature: *T.S.*

Date: 13 / 10 / 2020

STORMWATER LEGEND

LINE	DESCRIPTION
---	PROPERTY BOUNDARY
---	FUTURE TENANCY BOUNDARIES
---	EXTENT OF WORKS
---	FINISHED SURFACE CONTOURS
---	STORMWATER EXISTING
---	PROPOSED UNDERGROUND STORMWATER
---	PROPOSED CONCRETE ACCESS

NOTES:

- ALL STORMWATER DRAINAGE TO BE IN ACCORDANCE WITH AS/NZS 3500.3.
- ALL DOWNPIPES TO BE 150DIA PVC UNLESS NOTED OTHERWISE.
- MINIMUM SLOPE FOR DOWNPIPES ALONG WALLS TO BE 1:100 UNLESS NOTED OTHERWISE.
- ALL REINFORCE CONCRETE PIPES TO BE CLASS 2, RUBBER RING JOINT, UNLESS NOTED OTHERWISE.
- ALL NON-PRESSURE PIPE TO BE HD UPVC PIPE.
- LAYING OF PIPES TO BE IN ACCORDANCE WITH AS/NZS 3500.3.
- DOWNPIPES, SUSPENDED DRAINAGE PIPES TO BE INSTALLED IN ACCORDANCE WITH AS/NZS 3500.3.
- MINIMUM SLOPE ON GUTTERS SHALL BE:
EAVES GUTTERS 1:500
BOX GUTTER 1:200

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REV	DESCRIPTION	DATE	BY

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FOR APPROVAL

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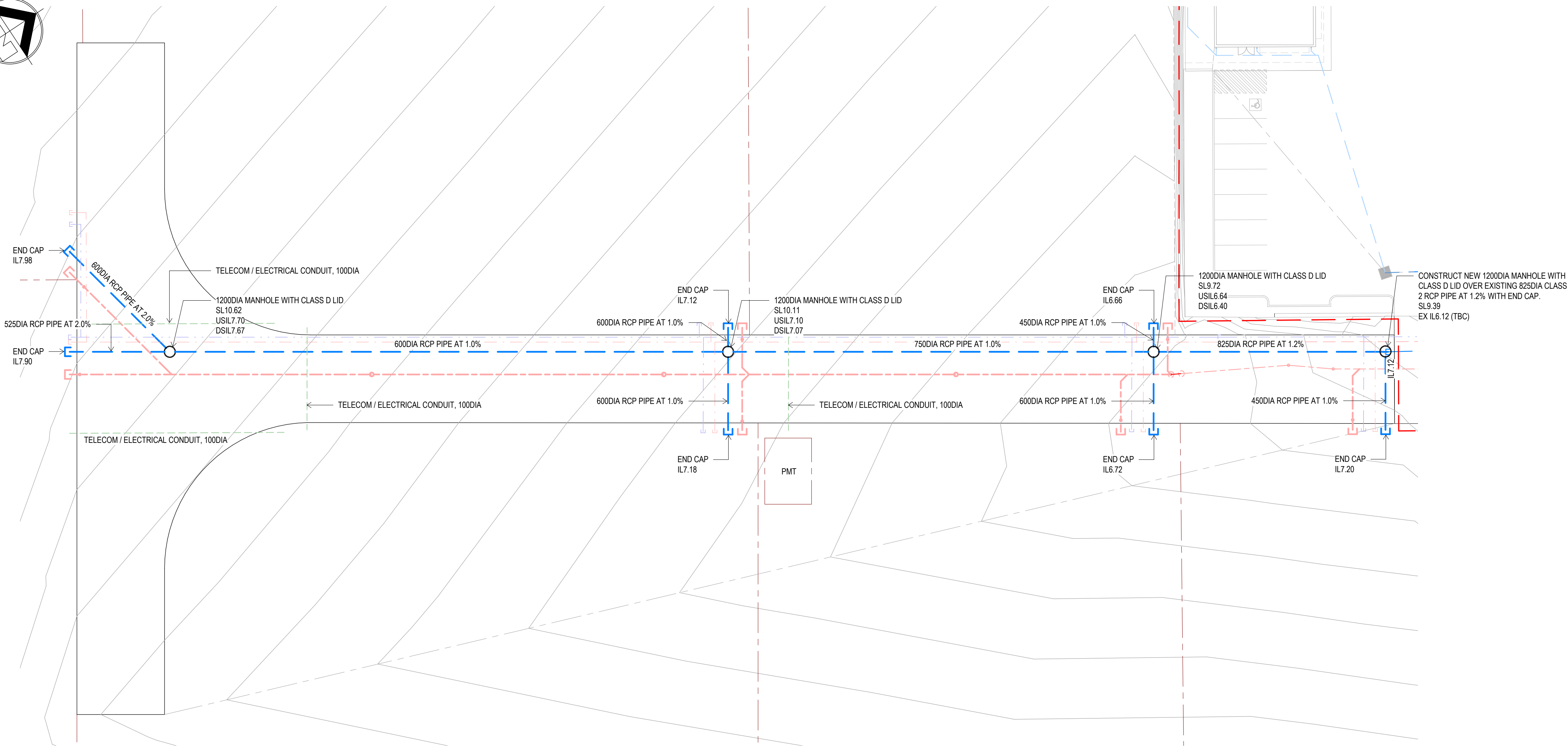
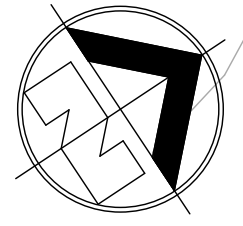
Project
LOT 1, 84-160 CHRISTENSEN
ROAD SOUTH, STAPYLTON

for
MS PROJECTS

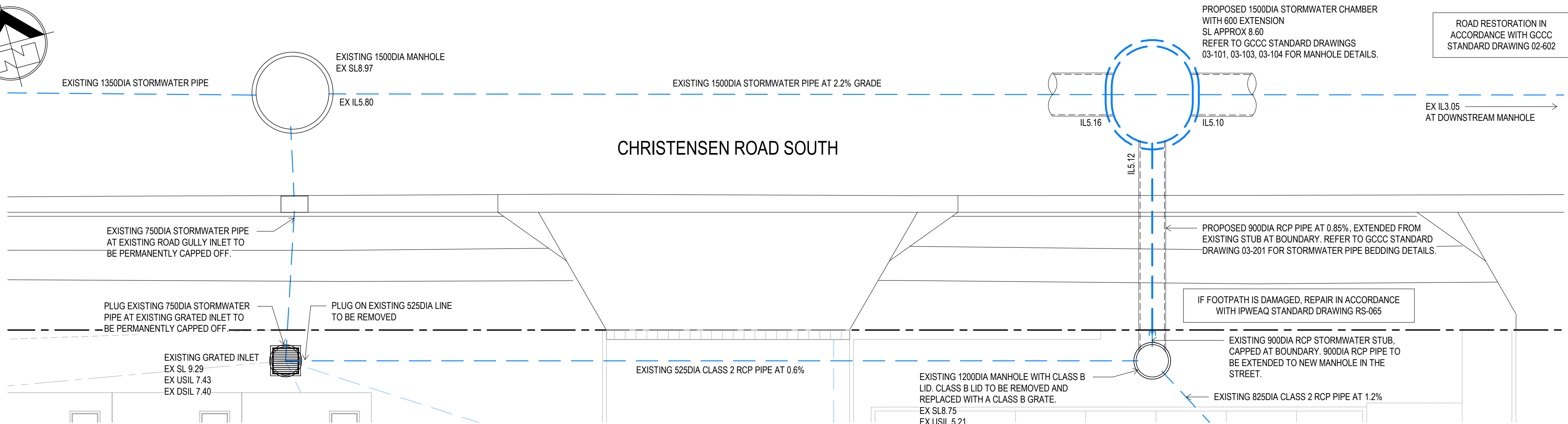
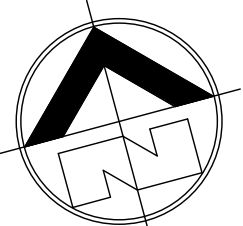
Title
STORMWATER PLAN

Drawn	Date	Chkd	Date
K.J.L.	25.09.2020	T.J.S.	
Design	Date	Apprd	Date
K.J.L.			
Scale	A1	Certif	Date
As indicated			
Project No.	Dwg. No.	Rev	
19-130	C131	C	

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2 STORMWATER DETAIL 1
C131 1 : 250



1 STORMWATER DETAIL 2
C131 1 : 100

PROJECT TEAM

Consulting Engineer:

3

1

i³ consulting pty ltd

engineering consultants

innovation, ingenuity, inspiration

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ABN 89 106 675 156
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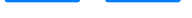
PO Box 878 Toowong, Qld 4066
mail@icubed.com.au
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Engineers Certification:

Travis Smith MIE Aust. CPEng.
NPER Civil
RPEQ 16400

Signature: *T. Smith*

Date: 13 / 10 / 2020

STORMWATER LEGEND			
LINE	DESCRIPTION		
	PROPERTY BOUNDARY		
	FUTURE TENANCY BOUNDARIES		
	EXTENT OF WORKS		
	FINISHED SURFACE CONTOURS		
	STORMWATER EXISTING		
	PROPOSED UNDERGROUND STORMWATER		
	PROPOSED CONCRETE ACCESS		
NOTES:			
1. ALL STORMWATER DRAINAGE TO BE IN ACCORDANCE WITH AS/NZS 3500.3.			
2. ALL DOWNPIPES TO BE 150DIA PVC UNLESS NOTED OTHERWISE.			
3. MINIMUM SLOPE FOR DOWNPIPES ALONG WALLS TO BE 1:100 UNLESS NOTED OTHERWISE.			
4. ALL REINFORCE CONCRETE PIPES TO BE CLASS 2, RUBBER RING JOINT, UNLESS NOTED OTHERWISE.			
5. ALL NON-PRESSURE PIPE TO BE HD UPVC PIPE.			
6. LAYING OF PIPES TO BE IN ACCORDANCE WITH AS/NZS 3500.3.			
7. DOWNPIPES, SUSPENDED DRAINAGE PIPES TO BE INSTALLED IN ACCORDANCE WITH AS/NZS 3500.3.			
8. MINIMUM SLOPE ON GUTTERS SHALL BE:			
EAVES GUTTERS			1:500
BOX GUTTER			1:200
C	FOR APPROVAL	13.10.2020	K.J.L.
B	FOR REVIEW	12.10.2020	K.J.L.
A	FOR REVIEW	25.09.2020	K.J.L.
REV	DESCRIPTION	DATE	BY

Status			
FOR APPROVAL			
NOT TO BE USED FOR CONSTRUCTION			
Project			
LOT 1, 84-160 CHRISTENSEN ROAD SOUTH, STAPYLTON			
for MS PROJECTS			
Title			
STORMWATER DETAILS SHEET 1			
Drawn	Date	Chkd	Date
K.J.L.	25.09.2020	T.J.S.	
Design	Date	Apprd	Date
K.J.L.			
Scale	A1	Certif	Date
As indicated			
Project No.	Dwg. No.	Rev	
19-130	C132	C	
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