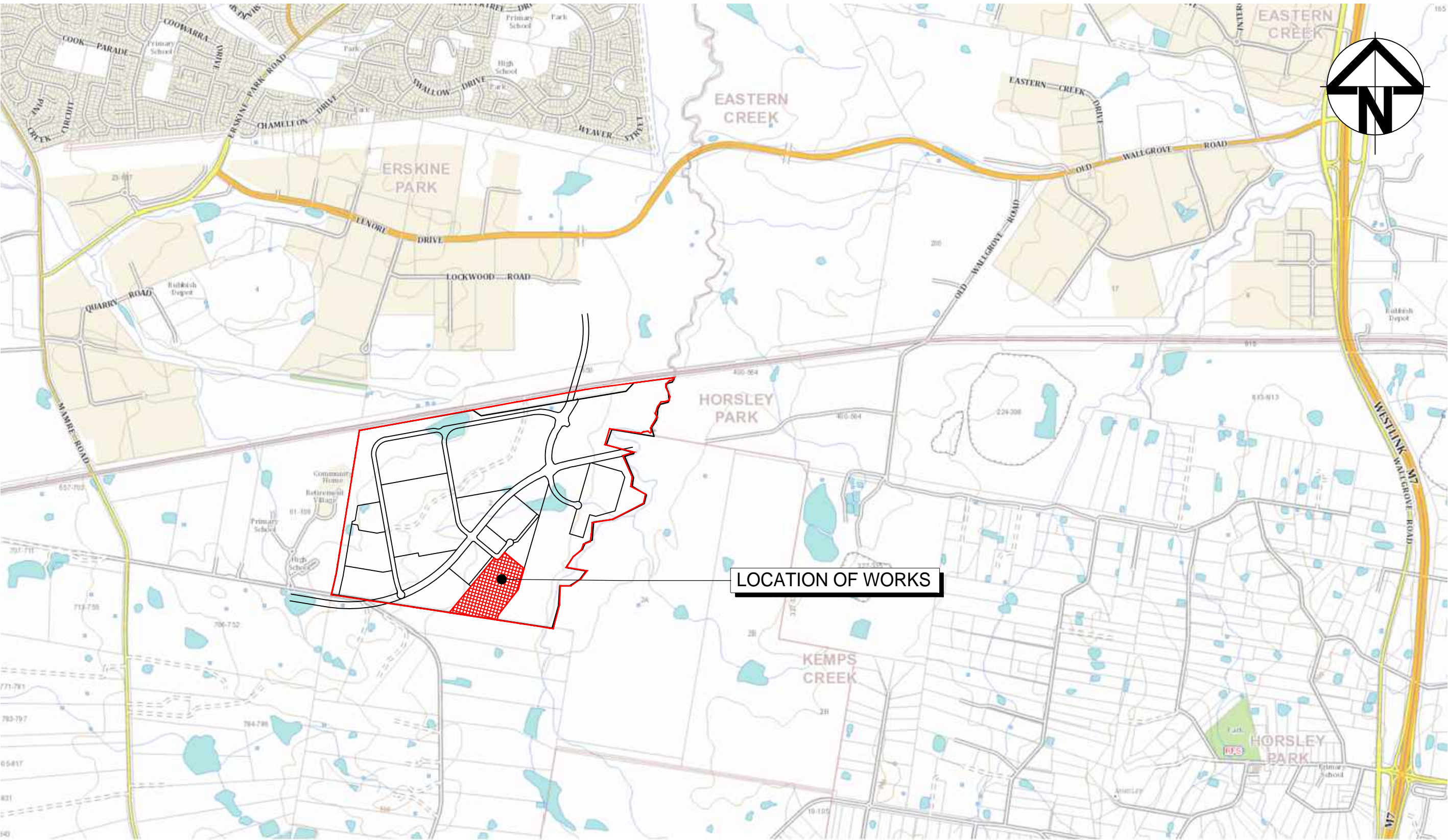


OAKDALE WEST
7500-SERIES LOT 4E
CIVIL WORKS PACKAGE
STAGE SIGNIFICANT DEVELOPMENT
APPLICATION

DRAWING No.	DRAWING TITLE
15-272-C7500	COVER SHEET DRAWING LIST LOCALITY PLAN
15-272-C7501	GENERAL NOTES
15-272-C7405	GENERAL ARRANGEMENT PLAN
15-272-C7510	TYPICAL SECTIONS SHEET 1
15-272-C7511	TYPICAL SECTIONS SHEET 2
15-272-C7515	BULK EARTHWORKS PLAN
15-272-C7520	SITEWORKS AND STORMWATER DRAINAGE PLAN SHEET 1
15-272-C7521	SITEWORKS AND STORMWATER DRAINAGE PLAN SHEET 2
15-272-C7522	SITEWORKS AND STORMWATER DRAINAGE PLAN SHEET 3
15-272-C7523	SITEWORKS AND STORMWATER DRAINAGE PLAN SHEET 4
15-272-C7524	SITEWORKS AND STORMWATER DRAINAGE PLAN SHEET 5
15-272-C7525	SITEWORKS AND STORMWATER DRAINAGE PLAN SHEET 6
15-272-C7530	PAVEMENT PLAN
15-272-C7540	EROSION AND SEDIMENT CONTROL PLAN
15-272-C7541	EROSION AND SEDIMENT DETAILS



LOCALITY PLAN
NTS

Bar Scales

B	ISSUED FOR APPROVAL	05/07/21
A	ISSUED FOR APPROVAL	24/06/21
P1	ISSUED FOR DRAFT	08/06/21
Issue	Description	Date

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Project

PROPOSED INDUSTRIAL DEVELOPMENT
OAKDALE WEST - LOT 4E

Title

COVER SHEET
DRAWING LIST
LOCALITY PLAN

Drawing No.	Project No.	Issue
15-272-C7500	15-272	B

SITEWORKS NOTES

1. ORIGIN OF LEVELS:- REFER SURVEY NOTES.
2. CONTRACTOR MUST VERIFY ALL DIMENSIONS AND EXISTING LEVELS ON SITE PRIOR TO COMMENCEMENT OF WORK. ANY DISCREPANCIES TO BE REPORTED TO AT & L.
3. MAKE SMOOTH CONNECTION WITH EXISTING WORKS.
4. ALL TRENCH BACKFILL MATERIAL SHALL BE COMPACTED TO THE SAME DENSITY AS THE ADJACENT MATERIAL.
5. ALL SERVICE TRENCHES UNDER VEHICULAR PAVEMENTS SHALL BE BACKFILLED WITH SAND TO 300mm ABOVE PIPE. WHERE PIPE IS UNDER PAVEMENTS BACKFILL REMAINDER OF TRENCH TO UNDERSIDE OF PAVEMENT WITH SAND OR APPROVED GRANULAR MATERIAL. COMPACTED IN 150mm LAYERS TO MINIMUM 98% MODIFIED MAXIMUM DRY DENSITY IN ACCORDANCE WITH AS 1289 5.2.1. (OR A DENSITY INDEX OF NOT LESS THAN 75)
6. PROVIDE 10mm WIDE EXPANSION JOINTS BETWEEN BUILDINGS AND ALL CONCRETE OR UNIT PAVEMENTS.
7. ASPHALTIC CONCRETE SHALL CONFORM TO R.M.S SPECIFICATION R116.
8. ALL BASECOURSE MATERIAL SHALL BE IGNEOUS ROCK QUARRIED MATERIAL TO COMPLY WITH R.M.S FORM 3051 (UNBOUND), R.M.S FORM 3052 (BOUND) COMPACTED TO MINIMUM 98% MODIFIED DENSITY IN ACCORDANCE WITH AS 1289 5.2.1. FREQUENCY OF COMPACTION TESTING SHALL NOT BE LESS THAN 1 TEST PER 50m OF BASECOURSE MATERIAL PLACED.
9. ALL SUB-BASE COURSE MATERIAL SHALL BE IGNEOUS ROCK QUARRIED MATERIAL TO COMPLY WITH R.M.S FORM 3051, 3051.1 AND COMPACTED TO MINIMUM 95% MODIFIED DENSITY IN ACCORDANCE WITH A.S 1289 5.2.1. FREQUENCY OF COMPACTION TESTING SHALL NOT BE LESS THAN 1 TEST PER 50m OF SUB-BASE COURSE MATERIAL PLACED.
10. AS AN ALTERNATIVE TO THE USE OF IGNEOUS ROCK AS A SUB-BASE MATERIAL IN (9) A CERTIFIED RECYCLED CONCRETE MATERIAL COMPLYING WITH R.M.S FORM 3051 AND 3051.1 WILL BE CONSIDERED. SUBJECT TO MATERIAL SAMPLES AND APPROPRIATE CERTIFICATIONS BEING PROVIDED TO THE SATISFACTION OF AT & L.
11. SHOULD THE CONTRACTOR WISH TO USE A RECYCLED PRODUCT THE CONTRACTOR IS TO SEEK ACCEPTANCE OF THE PRODUCT FROM AT&L. THE PRICE DIFFERENCE BETWEEN AN IGNEOUS PRODUCT AND A RECYCLED PRODUCT SHALL BE CLEARLY INDICATED.
12. WHERE NOTED ON THE DRAWINGS THAT WORKS ARE TO BE CARRIED BY OTHERS, (eg. ADJUSTMENT OF SERVICES), THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CO-ORDINATION OF THESE WORKS.

SURVEY NOTES

THE EXISTING SITE CONDITIONS SHOWN ON THE FOLLOWING DRAWINGS HAVE BEEN INVESTIGATED BY CARDNO HARD & FORESTER PTY LTD, BEING REGISTERED SURVEYORS. THE INFORMATION IS SHOWN TO PROVIDE A BASIS FOR DESIGN. AT & L DOES NOT GUARANTEE THE ACCURACY OR COMPLETENESS OF THE SURVEY BASE OR ITS SUITABILITY AS A BASIS FOR CONSTRUCTION DRAWINGS.

SHOULD DISCREPANCIES BE ENCOUNTERED DURING CONSTRUCTION BETWEEN THE SURVEY DATA AND ACTUAL FIELD DATA, CONTACT AT & L.

THE FOLLOWING NOTES HAVE BEEN TAKEN DIRECTLY FROM THE ORIGINAL SURVEY DOCUMENTS.

IMPORTANT NOTE:
THIS PLAN IS PREPARED FROM A COMBINATION OF FIELD SURVEY AND EXISTING RECORDS FOR THE PURPOSE OF DESIGNING NEW CONSTRUCTIONS ON THE LAND AND SHOULD NOT BE USED FOR ANY OTHER PURPOSE. THE TITLE BOUNDARIES SHOWN HEREON WERE NOT MARKED BY THE AUTHOR AT THE TIME OF SURVEY AND HAVE BEEN DETERMINED BY PLAN DIMENSIONS ONLY AND NOT BY FIELD MEASUREMENT.

A SERVICES SEARCH OF THE AREA SURVEYED ABOVE HAS NOT BEEN UNDERTAKEN. VISIBLE SERVICES SHOWN HEREON HAVE BEEN LOCATED WHERE POSSIBLE BY FIELD SURVEY. PRIOR TO ANY DEMOLITION, EXCAVATION OR CONSTRUCTION ON THE SITE, THE RELEVANT AUTHORITY SHOULD BE CONTACTED FOR POSSIBLE LOCATION OF FURTHER UNDERGROUND SERVICES AND DETAILED LOCATIONS OF ALL SERVICES. THIS NOTE IS AN INTEGRAL PART OF THIS PLAN.

EXISTING UNDERGROUND SERVICES NOTES

THE LOCATIONS OF UNDERGROUND SERVICES SHOWN IN THIS SET OF DRAWINGS HAVE BEEN PLOTTED FROM SURVEY INFORMATION AND SERVICE AUTHORITY INFORMATION. THE SERVICE INFORMATION HAS BEEN PREPARED ONLY TO SHOW THE APPROXIMATE POSITIONS OF ANY KNOWN SERVICES AND MAY NOT BE AS CONSTRUCTED OR ACCURATE.

AT & L CAN NOT GUARANTEE THAT THE SERVICES INFORMATION SHOWN ON THESE DRAWINGS ACCURATELY INDICATES THE PRESENCE OR ABSENCE OF SERVICES OR THEIR LOCATION AND WILL ACCEPT NO LIABILITY FOR INACCURACIES IN THE SERVICES INFORMATION SHOWN FROM ANY CAUSE WHATSOEVER.

CONTRACTORS SHALL TAKE DUE CARE WHEN EXCAVATING ONSITE INCLUDING HAND EXCAVATION WHERE NECESSARY.

CONTRACTORS ARE TO CONTACT THE RELEVANT SERVICE AUTHORITY PRIOR TO COMMENCEMENT OF EXCAVATION WORKS.

CONTRACTORS ARE TO UNDERTAKE A SERVICES SEARCH, PRIOR TO COMMENCEMENT OF WORKS ON SITE. SEARCH RESULTS ARE TO BE KEPT ON SITE AT ALL TIMES.



CONTRACTOR SHALL CALL:
DIAL BEFORE YOU DIG 1100
PRIOR TO COMMENCEMENT OF WORK TO OBTAIN ALL CURRENT SERVICE AUTHORITY PLANS

CONCRETE NOTES

1. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS 3600 CURRENT EDITION WITH AMENDMENTS, EXCEPT WHERE VARIED BY THE CONTRACT DOCUMENTS.
2. CONCRETE QUALITY
ALL REQUIREMENTS OF THE CURRENT ACSE CONCRETE SPECIFICATION DOCUMENT 1 SHALL APPLY TO THE FORMWORK, REINFORCEMENT AND CONCRETE UNLESS NOTED OTHERWISE.

ELEMENT	AS 3600 Fc MPa AT 28 DAYS	SPECIFIED SLUMP	NOMINAL AGG. SIZE
VEHICULAR BASE	32	60	20
KERBS, PATHS, AND PITS	25	80	20

- CEMENT TYPE SHALL BE (ACSE SPECIFICATION) TYPE SL
- PROJECT CONTROL TESTING SHALL BE CARRIED OUT IN ACCORDANCE WITH AS 1379.

3. NO ADMIXTURES SHALL BE USED IN CONCRETE UNLESS APPROVED IN WRITING BY AT & L.

4. CLEAR CONCRETE COVER TO ALL REINFORCEMENT FOR DURABILITY SHALL BE 40mm TOP AND 70mm FOR EXTERNAL EDGES UNLESS NOTED OTHERWISE.

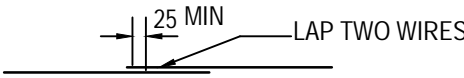
5. ALL REINFORCEMENT SHALL BE FIRMLY SUPPORTED ON MILD STEEL PLASTIC TIPPED CHAIRS, PLASTIC CHAIRS OR CONCRETE CHAIRS AT NOT GREATER THAN 1m CENTRES BOTH WAYS. BARS SHALL BE TIED AT ALTERNATE INTERSECTIONS.

6. THE FINISHED CONCRETE SHALL BE A DENSE HOMOGENEOUS MASS, COMPLETELY FILLING THE FORMWORK, THOROUGHLY EMBEDDING THE REINFORCEMENT AND FREE OF STONE POCKETS. ALL CONCRETE INCLUDING SLABS ON GROUND AND FOOTINGS SHALL BE COMPACTED AND CURED IN ACCORDANCE WITH R.M.S SPECIFICATION R83.

7. REINFORCEMENT SYMBOLS:
N DENOTES GRADE 450 N BARS TO AS 1302 GRADE N
R DENOTES 230 R HOT ROLLED PLAIN BARS TO AS 1302
SL DENOTES HARD-DRAWN WIRE REINFORCING FABRIC TO AS 1304

NUMBER OF BARS IN GROUP | BAR GRADE AND TYPE
17 N 20 250
NOMINAL BAR SIZE in mm | SPACING in mm
THE FIGURE FOLLOWING THE FABRIC SYMBOL SL IS THE REFERENCE NUMBER FOR FABRIC TO AS 1304.

8. FABRIC SHALL BE LAPPED IN ACCORDANCE WITH THE FOLLOWING DETAIL:



KERBING NOTES

1. ALL CONCRETE TO HAVE A MINIMUM COMPRESSIVE STRENGTH OF 25 MPa U.N.O IN REINFORCED CONCRETE NOTES.

2. ALL KERBS, GUTTERS, DISH DRAINS AND CROSSINGS TO BE CONSTRUCTED ON MIN. 100mm GRANULAR BASECOURSE COMPACTED TO MINIMUM 95% MODIFIED DRY DENSITY (AS 1289 5.2.1).

3. EXPANSION JOINTS (E.J.) TO BE FORMED FROM 10mm COMPRESSIBLE CORK FILLER BOARD FOR THE FULL DEPTH OF THE SECTION AND CUT TO PROFILE. EXPANSION JOINTS TO BE LOCATED AT DRAINAGE PITS, ON TANGENT POINTS OF CURVES AND ELSEWHERE AT MAX 12m CENTRES EXCEPT FOR INTEGRAL KERBS WHERE THE EXPANSION JOINTS ARE TO MATCH THE JOINT LOCATIONS IN THE SLABS.

4. WEAKENED PLANE JOINTS TO BE MIN 3mm WIDE AND LOCATED AT 3m CENTRES EXCEPT FOR INTEGRAL KERBS WHERE THE WEAKENED PLANE JOINTS ARE TO MATCH THE JOINT LOCATIONS IN THE SLABS.

5. BROOMED FINISH TO ALL RAMPED AND VEHICULAR CROSSINGS. ALL OTHER KERBING OR DISH DRAINS TO BE STEEL FLOAT FINISHED.

6. IN THE REPLACEMENT OF KERB AND GUTTER :-
EXISTING ROAD PAVEMENT IS TO BE SAWCUT 900mm U.N.O FROM THE LIP OF GUTTER. UPON COMPLETION OF THE NEW KERB AND GUTTER NEW BASECOURSE AND SURFACE TO BE LAID 900mm WIDE U.N.O.

EXISTING ALLOTMENT DRAINAGE PIPES ARE TO BE BUILT INTO THE NEW KERB AND GUTTER WITH 100mm DIA HOLE.

EXISTING KERB AND GUTTER IS TO BE COMPLETELY REMOVED WHERE NEW KERB AND GUTTER IS SHOWN.

FINISHED SURFACE LEVELS

1. ALL FINISHED SURFACE LEVELS ARE ±500mm U.N.O.

STORMWATER DRAINAGE NOTES

1. STORMWATER DESIGN CRITERIA:
(A) AVERAGE RECURRENCE INTERVAL:-
1:100 YEARS MAJOR STORM (OVERLAND FLOW)
1:20 YEARS MINOR STORM (PIPED NETWORK)
(B) RAINFALL INTENSITIES:
TIME OF CONCENTRATION: 5 MINUTES
1:100 YEARS= 219 mm/hr
1:20 YEARS= 167 mm/hr
(C) RUNOFF COEFFICIENTS:
ROOF AREAS: C 100 =1.0
EXTERNAL PAVEMENTS: C 100 =1.0

2. PIPES 300 DIA. AND LARGER TO BE REINFORCED CONCRETE CLASS '2' APPROVED SPIGOT AND SOCKET WITH RUBBER RING JOINTS. U.N.O.

3. PIPES UP TO 300 DIA SHALL BE SEWER GRADE uPVC WITH SOLVENT WELDED JOINTS.

4. EQUIVALENT STRENGTH VCP OR FRC PIPES MAY BE USED, SUBJECT TO THE APPROVAL OF PENRITH CITY COUNCIL.

5. ALL STORMWATER DRAINAGE LINES UNDER PROPOSED BUILDING SLABS TO BE uPVC PRESSURE PIPE GRADE 6. ENSURE ALL VERTICALS AND DOWNPIPES ARE uPVC PRESSURE PIPE, GRADE 6 FOR A MIN OF 3.0m IN HEIGHT.

6. PIPES TO BE INSTALLED TO TYPE HS1 SUPPORT IN ACCORDANCE WITH AS 3725 (2007) IN ALL CASES BACKFILL TRENCH WITH SAND TO 300mm ABOVE PIPE. WHERE PIPE IS UNDER PAVEMENTS BACKFILL REMAINDER OF TRENCH TO UNDERSIDE OF PAVEMENT WITH SAND OR APPROVED GRANULAR MATERIAL COMPACTED IN 150mm LAYERS TO MINIMUM 98% STANDARD MAXIMUM DRY DENSITY IN ACCORDANCE WITH AS 1289 5.2.1. (OR A DENSITY INDEX OF NOT LESS THAN 75)

7. ALL INTERNAL WORKS WITHIN PROPERTY BOUNDARIES ARE TO COMPLY WITH THE REQUIREMENTS OF AS 3500 3.1 (1998) AND AS/NZS 3500 3.2 (1998).

8. PRECAST PITS MAY BE USED EXTERNAL TO THE BUILDING SUBJECT TO APPROVAL BY AT & L.

9. ENLARGERS, CONNECTIONS AND JUNCTIONS TO BE PREFABRICATED FITTINGS WHERE PIPES ARE LESS THAN 300 DIA.

10. WHERE SUBSOIL DRAINS PASS UNDER FLOOR SLABS AND VEHICULAR PAVEMENTS, UNSLOTTED uPVC SEWER GRADE PIPE IS TO BE USED.

11. CARE IS TO BE TAKEN WITH LEVELS OF STORMWATER LINES. GRADES SHOWN ARE NOT TO BE REDUCED WITHOUT APPROVAL.

12. GRATES AND COVERS SHALL CONFORM TO AS 3996.
13. AT ALL TIMES DURING CONSTRUCTION OF STORMWATER PITS, ADEQUATE SAFETY PROCEDURES SHALL BE TAKEN TO ENSURE AGAINST THE POSSIBILITY OF PERSONNEL FALLING DOWN PITS.

14. ALL EXISTING STORMWATER DRAINAGE LINES AND PITS THAT ARE TO REMAIN ARE TO BE INSPECTED AND CLEANED. DURING THIS PROCESS ANY PART OF THE STORMWATER DRAINAGE SYSTEM THAT WARRANTS REPAIR SHALL BE REPORTED TO THE SUPERINTENDENT/ENGINEER FOR FURTHER DIRECTIONS.

EROSION AND SEDIMENT CONTROL NOTES

GENERAL INSTRUCTIONS

1. THE SITE SUPERINTENDENT/ENGINEER WILL ENSURE THAT ALL SOIL AND WATER MANAGEMENT WORKS ARE LOCATED AS DOCUMENTED.
2. ALL WORK SHALL BE GENERALLY CARRIED OUT IN ACCORDANCE WITH
a. LOCAL AUTHORITY REQUIREMENTS
b. EPA REQUIREMENTS
c. NSW DEPARTMENT OF HOUSING MANUAL "MANAGING URBAN STORMWATER, SOILS AND CONSTRUCTION", 4th EDITION, MARCH 2004.
3. MAINTAIN THE EROSION CONTROL DEVICES TO THE SATISFACTION OF THE SUPERINTENDENT AND THE LOCAL AUTHORITY.
4. WHEN STORMWATER PITS ARE CONSTRUCTED, PREVENT SITE RUNOFF ENTERING UNLESS SEDIMENT FENCES ARE ERECTED AROUND PITS.
5. CONTRACTOR IS TO ENSURE ALL EROSION & SEDIMENT CONTROL DEVICES ARE MAINTAINED IN GOOD WORKING ORDER AND OPERATE EFFECTIVELY. REPAIRS AND OR MAINTENANCE SHALL BE UNDERTAKEN AS REQUIRED, PARTICULARLY FOLLOWING STORM EVENTS.

LAND DISTURBANCE

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

- (A) INSTALL A WIND FENCE ALONG THE BOUNDARIES AS SHOWN ON PLAN. REFER DETAIL.

- (B) INSTALL A SEDIMENT FENCE ALONG THE BOUNDARIES AS SHOWN ON PLAN. REFER DETAIL.

- (C) CONSTRUCT STABILISED CONSTRUCTION ENTRANCE TO LOCATION AS DETERMINED BY SUPERINTENDENT/ENGINEER. REFER DETAIL.

- (D) INSTALL SEDIMENT BASIN AS SHOWN ON PLAN.

- (E) INSTALL SEDIMENT TRAPS AS SHOWN ON PLAN.

- (F) UNDERTAKE SITE DEVELOPMENT WORKS IN ACCORDANCE WITH THE ENGINEERING PLANS. WHERE POSSIBLE, PHASE DEVELOPMENT SO THAT LAND DISTURBANCE IS CONFINED TO AREAS OF WORKABLE SIZE.

EROSION CONTROL

7. DURING WINDY WEATHER, LARGE, UNPROTECTED AREAS WILL BE KEPT MOIST (NOT WET) BY SPRINKLING WITH WATER TO KEEP DUST UNDER CONTROL.

8. FINAL SITE LANDSCAPING WILL BE UNDERTAKEN AS SOON AS POSSIBLE AND WITHIN 20 WORKING DAYS FROM COMPLETION OF CONSTRUCTION ACTIVITIES.

SEDIMENT CONTROL

9. STOCKPILES WILL NOT BE LOCATED WITHIN 2 METRES OF HAZARD AREAS, INCLUDING LIKELY AREAS OF CONCENTRATED OR HIGH VELOCITY FLOWS SUCH AS WATERWAYS. WHERE THEY ARE BETWEEN 2 AND 5 METRES FROM SUCH AREAS, SPECIAL SEDIMENT CONTROL MEASURES SHOULD BE TAKEN TO MINIMISE POSSIBLE POLLUTION TO DOWNSLOPE WATERS, E.G. THROUGH INSTALLATION OF SEDIMENT FENCING.

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

11. WATER WILL BE PREVENTED FROM ENTERING THE PERMANENT DRAINAGE SYSTEM UNLESS IT IS RELATIVELY SEDIMENT FREE, I.E. THE CATCHMENT AREA HAS BEEN PERMANENTLY LANDSCAPED AND/OR ANY LIKELY SEDIMENT HAS BEEN FILTERED THROUGH AN APPROVED STRUCTURE.

12. TEMPORARY SOIL AND WATER MANAGEMENT STRUCTURES WILL BE REMOVED ONLY AFTER THE LANDS THEY ARE PROTECTING ARE REHABILITATED.

OTHER MATTERS

13. ACCEPTABLE RECEPTORS WILL BE PROVIDED FOR CONCRETE AND MORTAR SLURRIES, PAINTS, ACID WASHINGS, LIGHT-WEIGHT WASTE MATERIALS AND LITTER.

14. ANY EXISTING TREES WHICH FORM PART OF THE FINAL LANDSCAPING PLAN WILL BE PROTECTED FROM CONSTRUCTION ACTIVITIES BY:

- (A) PROTECTING THEM WITH BARRIER FENCING OR SIMILAR MATERIALS INSTALLED OUTSIDE THE DRIP LINE

- (B) ENSURING THAT NOTHING IS NAILED TO THEM

- (C) PROHIBITING PAVING, GRADING, SEDIMENT WASH OR PLACING OF STOCKPILES WITHIN THE DRIP LINE EXCEPT UNDER THE FOLLOWING CONDITIONS.

- (i) ENCROACHMENT ONLY OCCURS ON ONE SIDE AND NO CLOSER TO THE TRUNK THAN EITHER 1.5 METRES OR HALF THE DISTANCE BETWEEN THE OUTER EDGE OF THE DRIP LINE AND THE TRUNK, WHICH EVER IS THE GREATER

- (ii) A DRAINAGE SYSTEM THAT ALLOWS AIR AND WATER TO CIRCULATE THROUGH THE ROOT ZONE (E.G. A GRAVEL BED) IS PLACED UNDER ALL FILL LAYERS OF MORE THAN 300 MILLIMETRES DEPTH

- (iii) CARE IS TAKEN NOT TO CUT ROOTS UNNECESSARILY NOR TO COMPACT THE SOIL AROUND THEM.

STAGING

SUITABLE EROSION AND SEDIMENT CONTROLS SHALL BE DESIGNED, PROVIDED AND MAINTAINED BY THE CONTRACTOR THROUGHOUT ALL STAGES OF WORKS, INCLUDING AT COMPLETION OF THE BULK EARTHWORKS WHERE SHOWN ON AT&L DRAWINGS OR WHERE DIRECTED BY THE SUPERINTENDENT OR PENRITH CITY COUNCIL'S ENGINEERS. SEDIMENT AND EROSION CONTROLS ARE TO BE DESIGNED AND DOCUMENTED BY A SUITABLY QUALIFIED EXPERT ENGAGED BY THE CONTRACTOR AND APPROVED AS PART OF THE CONSTRUCTION ENVIRONMENTAL MANAGEMENT PLAN PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. SUCH CONTROLS SHALL BE IN ACCORDANCE WITH THE RELEVANT REQUIREMENTS IN THE LATEST VERSION OF THE MANAGING URBAN STORMWATER: SOILS AND CONSTRUCTION GUIDELINE (LANDCOM).

Bar Scales

B	ISSUED FOR APPROVAL	05/07/21
A	ISSUED FOR APPROVAL	24/06/21
P1	ISSUED FOR DRAFT	08/06/21

Issue	Description	Date
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Grid	MGA	Approved FX



Civil Engineers and Project Managers

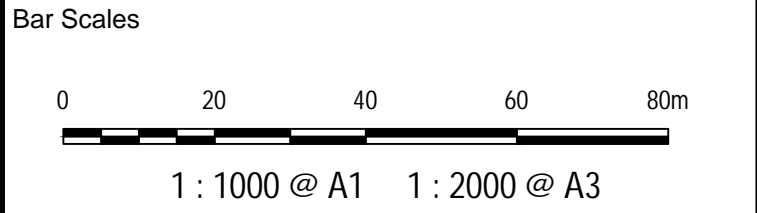
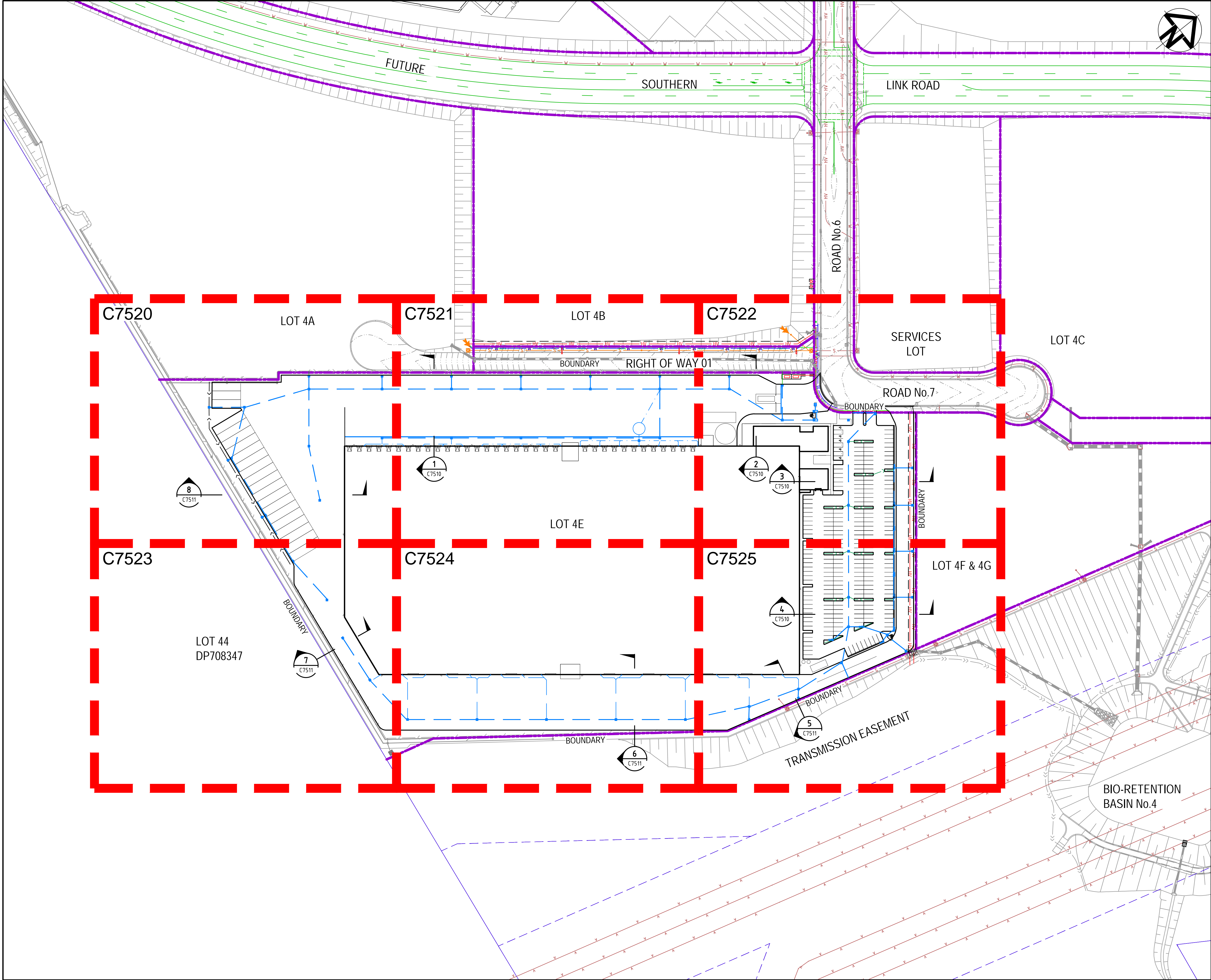
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PROPOSED INDUSTRIAL DEVELOPMENT OAKDALE WEST - LOT 4E

GENERAL NOTES

Drawing No.	Project No.	Issue
15-272-C7501	15-272	B



C	REVISED STORMWATER	19/07/21
B	ISSUED FOR APPROVAL	05/07/21
A	ISSUED FOR APPROVAL	24/06/21
P1	ISSUED FOR DRAFT	08/06/21

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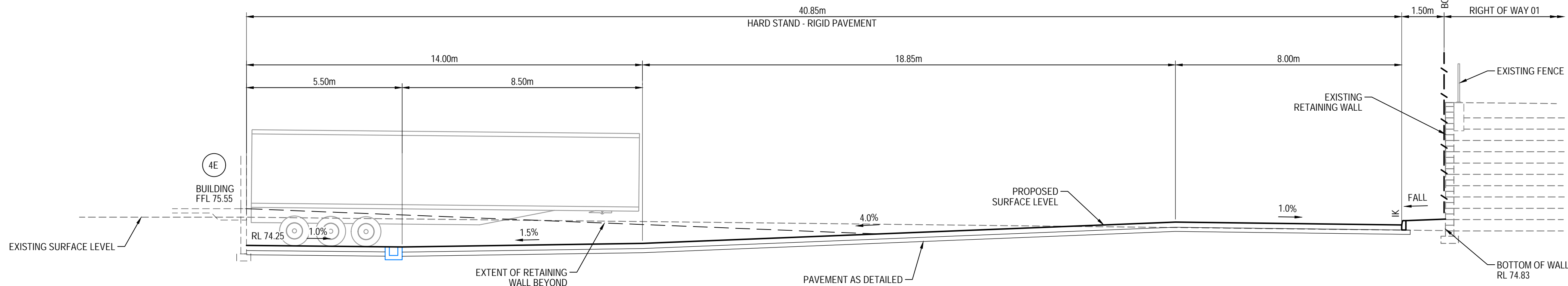
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PROPOSED INDUSTRIAL DEVELOPMENT
OAKDALE WEST - LOT 4E

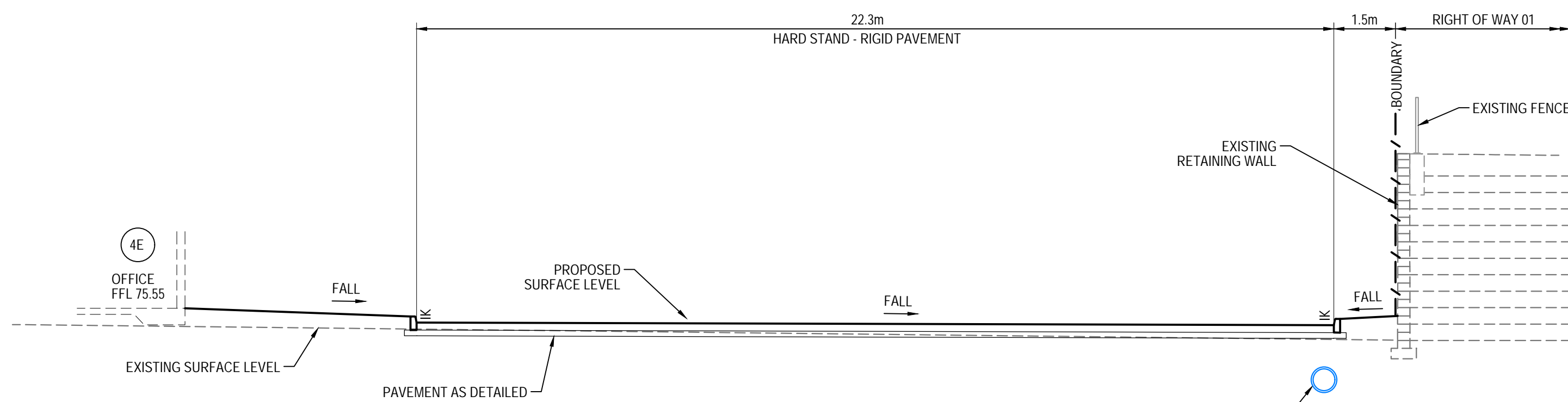
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GENERAL ARRANGEMENT PLAN

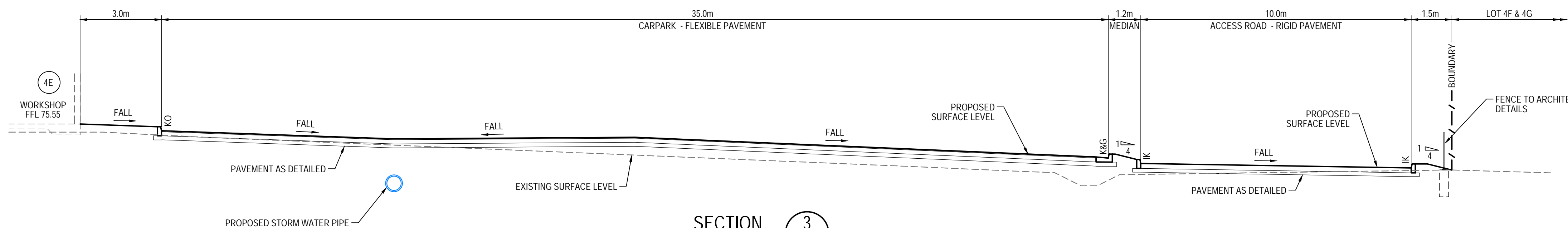
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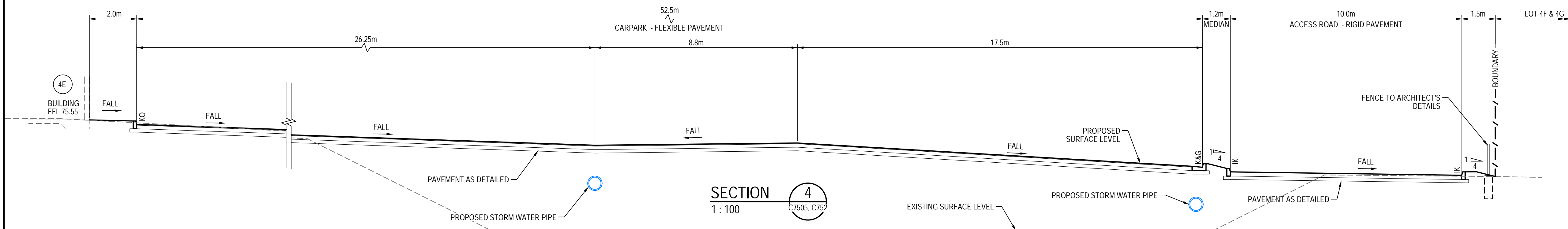
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SECTION 2
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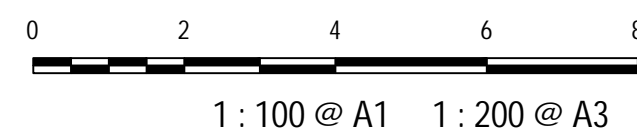


SECTION 3
1 : 100



SECTION 4
1 : 100

Bar Scales



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P1	ISSUED FOR DRAFT	08/06/21

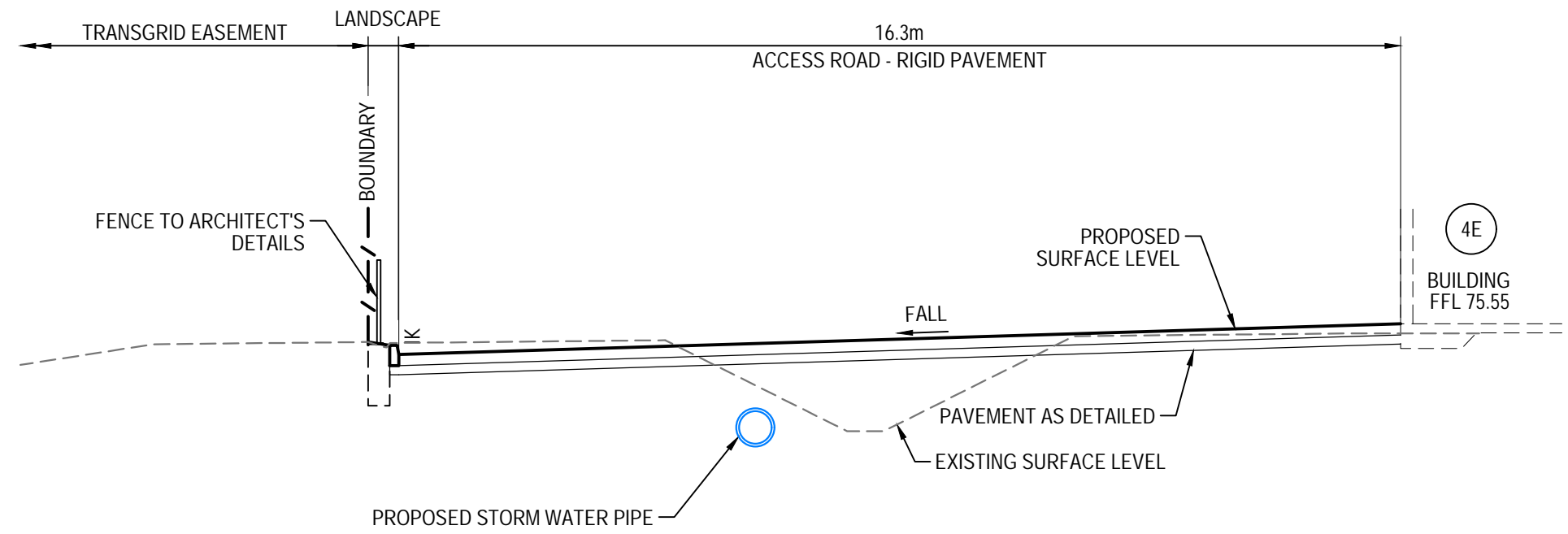
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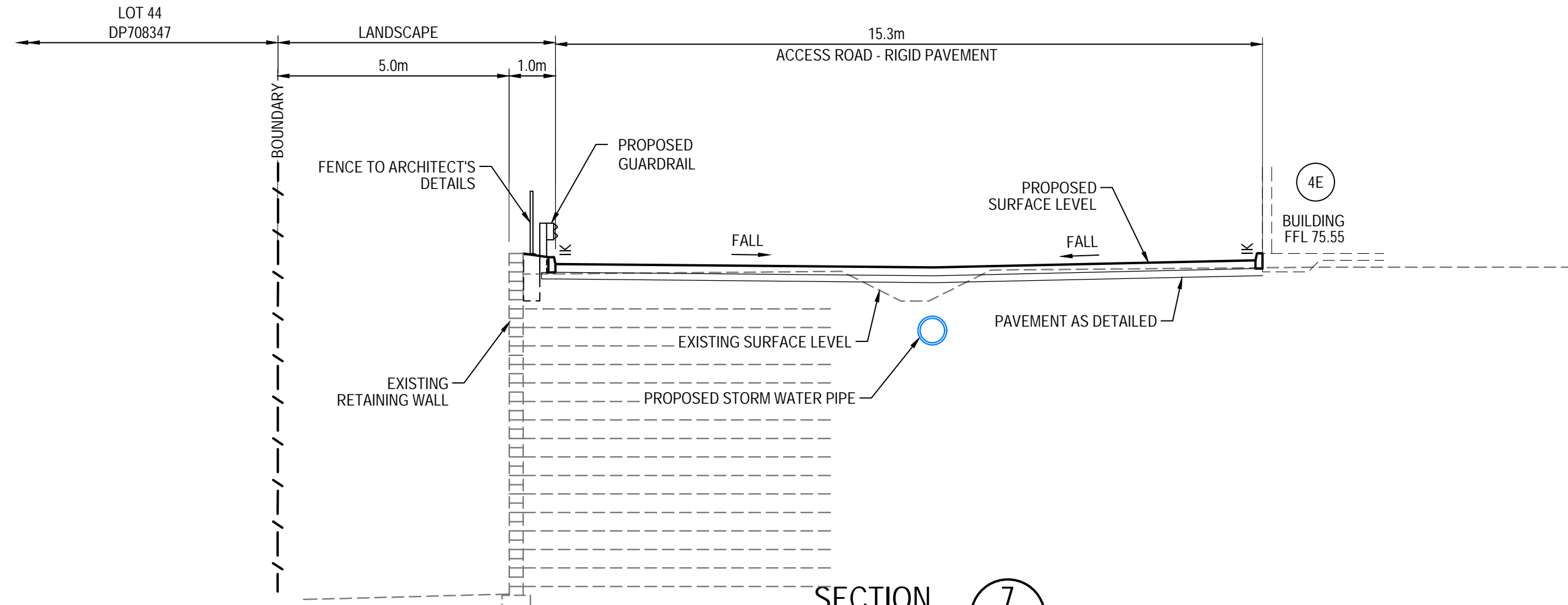
Project
PROPOSED INDUSTRIAL DEVELOPMENT
OAKDALE WEST - LOT 4E

Title
TYPICAL SECTIONS
SHEET 1

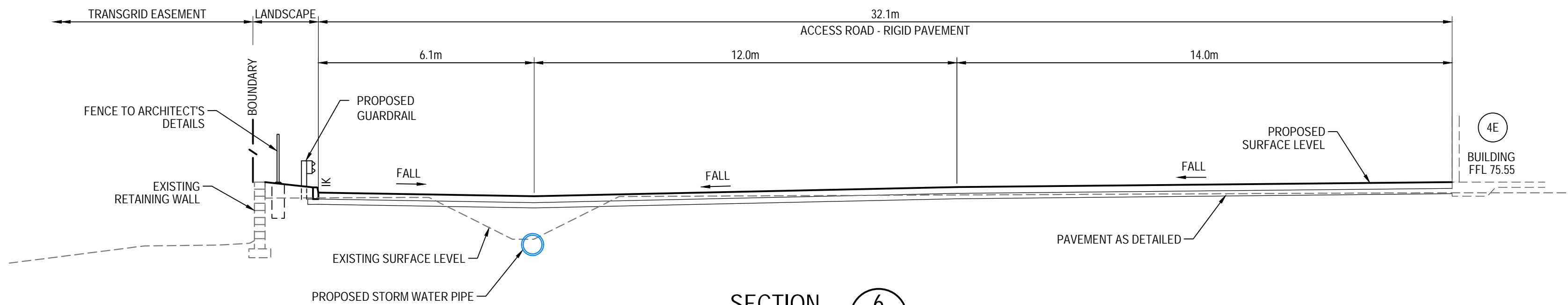
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15-272-C7510	15-272	B



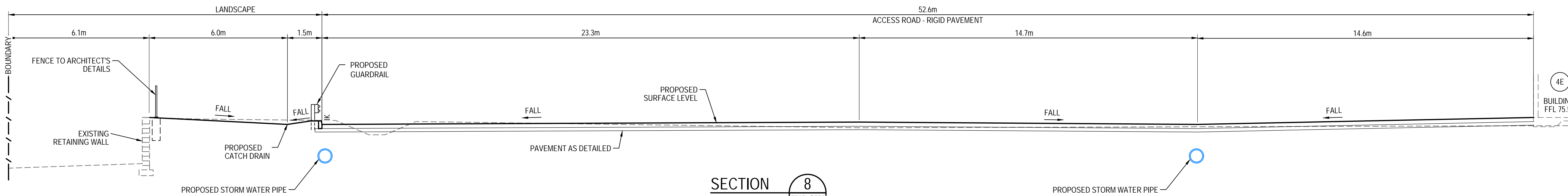
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C7505, C7525



SECTION 7
1:100
C7505, C7523

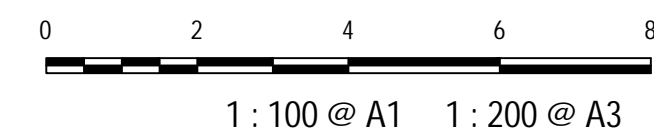


SECTION 6
1:100
C7505, C7524



SECTION 8
1:100
C7505, C7520

Bar Scales



B	ISSUED FOR APPROVAL	05/07/21
A	ISSUED FOR APPROVAL	24/06/21
P1	ISSUED FOR DRAFT	08/06/21

Issue	Description	Date
-------	-------------	------

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Status	FOR APPROVAL	A1
NOT TO BE USED FOR CONSTRUCTION		

Scales	1:100	15-272-C7511.dwg	
		Drawn	JC
		Designed	JC
Height Datum	AHD	Checked	FX
Grid	MGA	Approved	FX

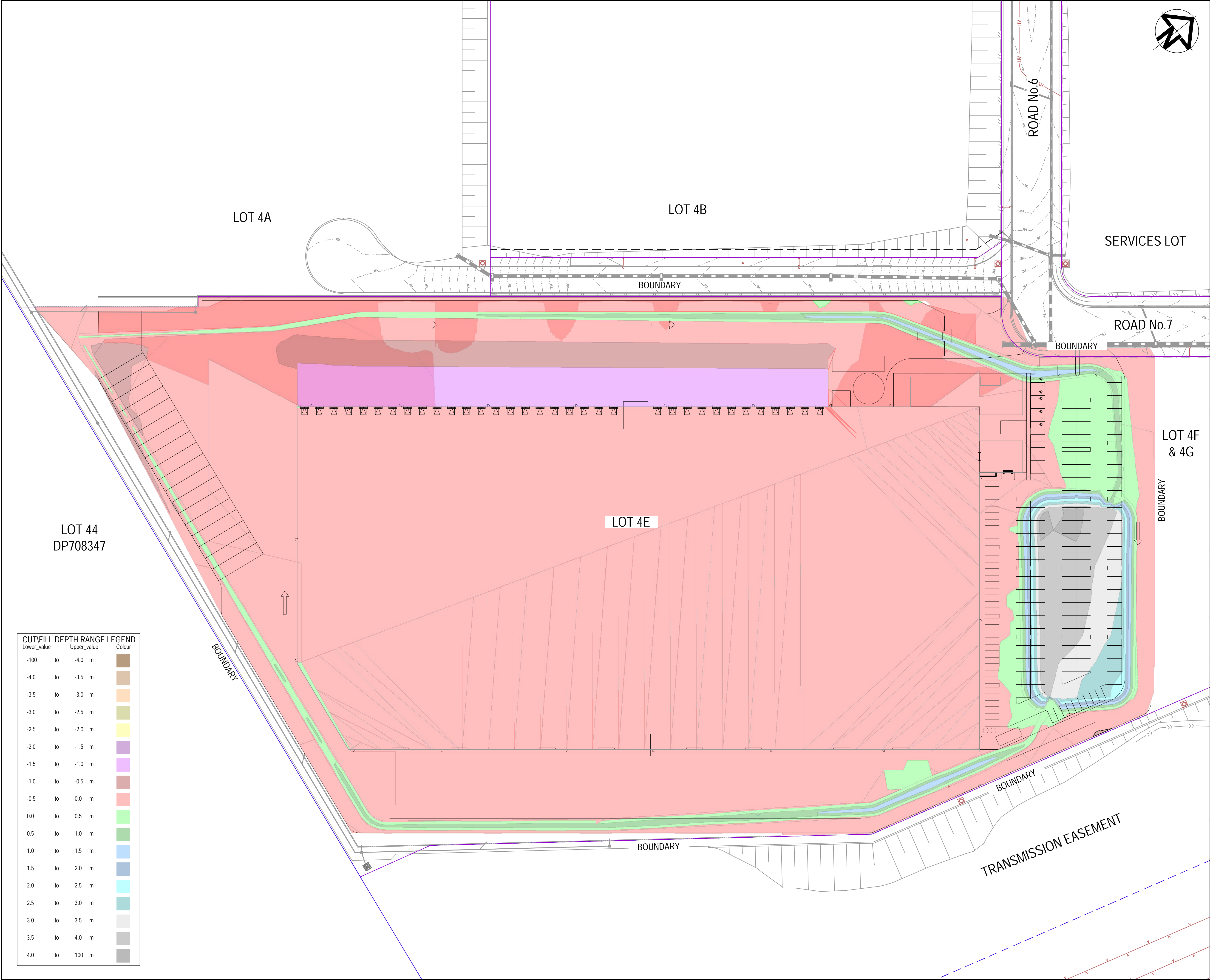


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Project
**PROPOSED INDUSTRIAL DEVELOPMENT
OAKDALE WEST - LOT 4E**

Title
**TYPICAL SECTIONS
SHEET 2**

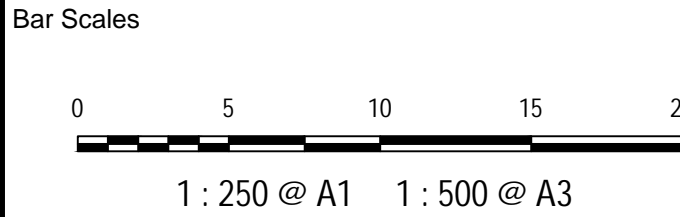
Drawing No. 15-272-C7511	Project No. 15-272	Issue B
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CUT/FILL DEPTH RANGE LEGEND		
Lower_value	Upper_value	Colour
-100	to -4.0	m
-4.0	to -3.5	m
-3.5	to -3.0	m
-3.0	to -2.5	m
-2.5	to -2.0	m
-2.0	to -1.5	m
-1.5	to -1.0	m
-1.0	to -0.5	m
-0.5	to 0.0	m
0.0	to 0.5	m
0.5	to 1.0	m
1.0	to 1.5	m
1.5	to 2.0	m
2.0	to 2.5	m
2.5	to 3.0	m
3.0	to 3.5	m
3.5	to 4.0	m
4.0	to 100	m

NET CUT (cu.m)	NET FILL (cu.m)	BALANCE (cu.m)
-9,440	11,740	2,300 IMPORT

- NOTES
1. THE ABOVE VOLUMES ARE CALCULATED WITH THE ASSUMPTION THAT THE INFRASTRUCTURE WORKS ARE COMPLETED.
 2. INFRASTRUCTURE EARTHWORKS ARE SUBJECTED TO CHANGE TO REDUCE THE EXPORT AMOUNT. WAE SURVEY TO CONFIRM VOLUMES PRIOR TO DETAILED DESIGN.
 3. NO ALLOWANCE FOR RETAINING WALL BACKFILL MATERIAL.
 4. ASSUMED ALL PAVEMENT AND LANDSCAPE DEPTH ARE 300mm.
 5. THE VOLUMES DO NOT TAKE INTO ACCOUNT THE FOLLOWING :
 - BULKING FACTORS OF REMOVED CUT
 - REMOVAL OF EXISTING BUILDING SLABS AND PAVEMENTS
 - REMOVAL AND/OR REMEDIATION OF ANY EXISTING UNCONTROLLED FILL
 - PROPOSED LANDSCAPING
 - STORMWATER AND UTILITY TRENCHING
 - EROSION AND SEDIMENTATION CONTROL SWALES AND BASINS
 6. OVER EXCAVATION OF EXISTING SEDIMENT BASIN DUE TO UNSTABLE MATERIAL



Issue	Description	Date
B	REVISED VOLUMES	05/07/21
A	ISSUED FOR APPROVAL	24/06/21
P1	ISSUED FOR DRAFT	08/06/21

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Status	FOR APPROVAL	A1
	NOT TO BE USED FOR CONSTRUCTION	

Scales	1 : 750	15-272-C7515.dwg	
		Drawn	JC
		Designed	JC
Height Datum	AHD	Checked	FX
Grid	MGA	Approved	FX



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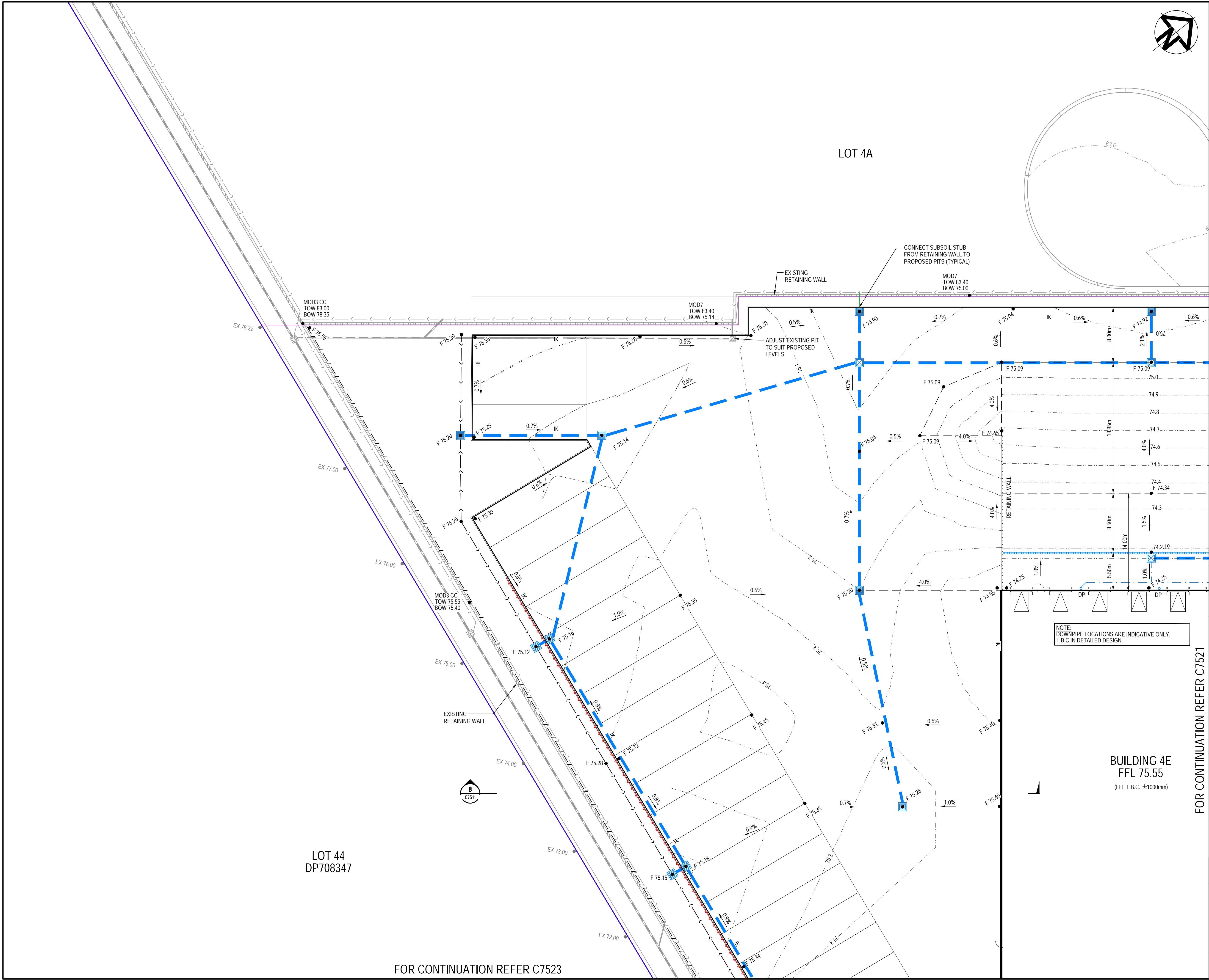
Project

**PROPOSED INDUSTRIAL DEVELOPMENT
OAKDALE WEST - LOT 4E**

Title

BULK EARTHWORKS PLAN

Drawing No.	Project No.	Issue
15-272-C7515	15-272	B



LEGEND

- EXISTING BOUNDARY
- PROPOSED BOUNDARY
- 65.0 PROPOSED CONTOUR
- K&G KERB AND GUTTER
- KO KERB ONLY
- IK INTEGRAL KERB ONLY
- F74.00 FINISHED SURFACE LEVEL
- Q375 STORMWATER PIPE WITH SIZE
- GD STORMWATER GRATED DRAIN WITH CLASS 'D' COVER
- DP STORMWATER DOWNPIPE
- GUARD RAIL SAFETY BARRIER
- SUBSOIL DRAINAGE (100mmØ)
- KERB INLET PIT
- SURFACE INLET PIT
- JUNCTION PIT
- EXISTING STORMWATER PIPE
- EXISTING RETAINING WALL
- S EXISTING SEWER MAIN
- V EXISTING WATER MAIN
- NBN EXISTING NBN
- LV/HV EXISTING ELECTRICAL
- G EXISTING GAS MAIN

Bar Scales

0 5 10 15 20

1 : 250 @ A1 1 : 500 @ A3

B	REVISED HARDSTAND LEVELS	05/07/21
A	ISSUED FOR APPROVAL	24/06/21
P1	ISSUED FOR DRAFT	08/06/21
Issue	Description	Date

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Status	FOR APPROVAL		A1
NOT TO BE USED FOR CONSTRUCTION			
Scales	15-272-C7520.dwg		
1 : 250	Drawn	JC	
	Designed	JC	
Height Datum	AHD	Checked	FX
Grid	MGA	Approved	FX

Client

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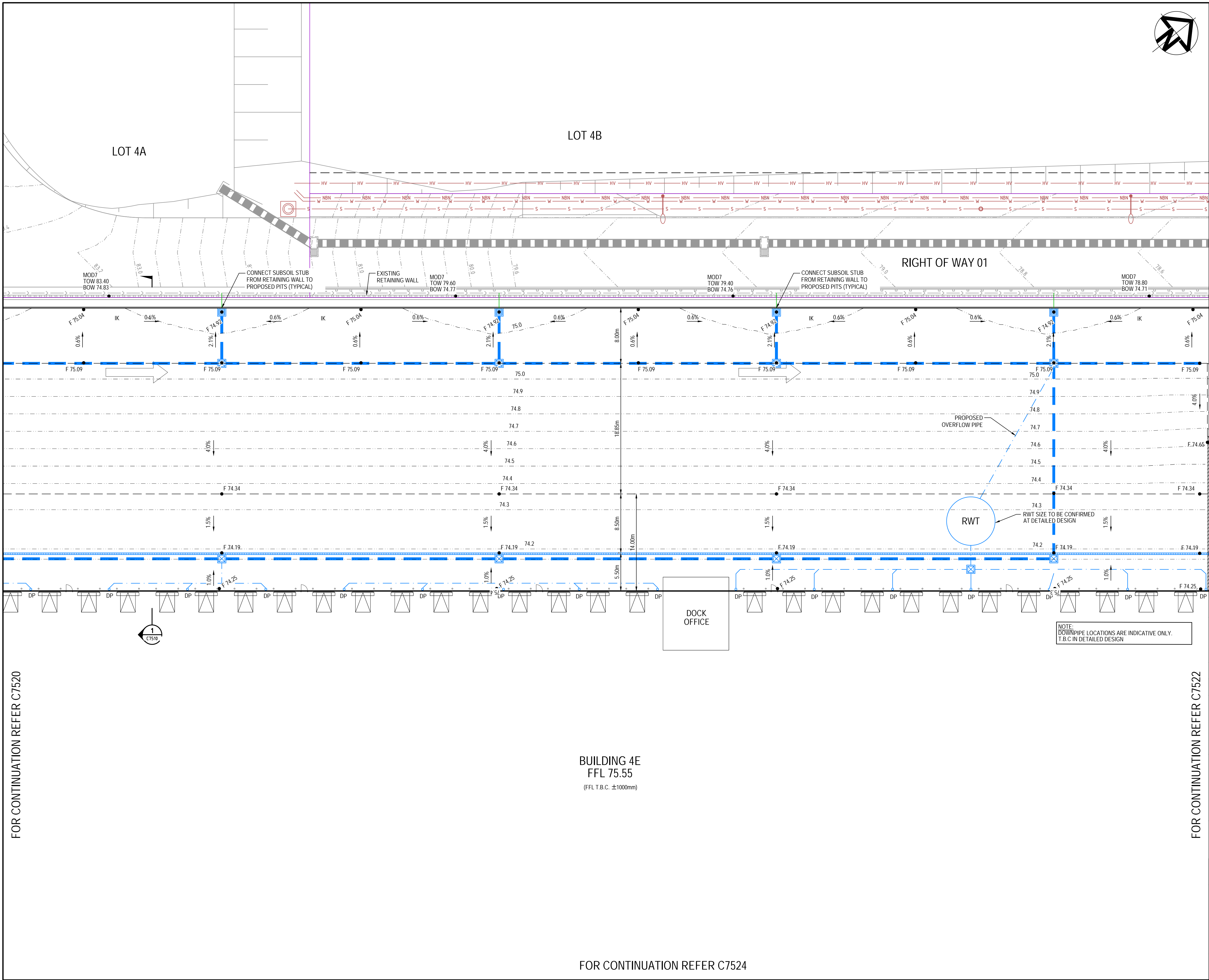
Project

PROPOSED INDUSTRIAL DEVELOPMENT
OAKDALE WEST - LOT 4E

Title

SITEWORKS AND STORMWATER DRAINAGE PLAN
SHEET 1

Drawing No.	Project No.	Issue
15-272-C7520	15-272	B



LEGEND

- EXISTING BOUNDARY
- PROPOSED BOUNDARY
- 65.0 PROPOSED CONTOUR
- K&G KERB AND GUTTER
- KO KERB ONLY
- IK INTEGRAL KERB ONLY
- FINISHED SURFACE LEVEL
- STORMWATER PIPE WITH SIZE
- STORMWATER GRATED DRAIN WITH CLASS 'D' COVER
- STORMWATER DOWNPIPE
- GUARD RAIL SAFETY BARRIER
- SUBSOIL DRAINAGE (100mmØ)
- KERB INLET PIT
- SURFACE INLET PIT
- JUNCTION PIT
- EXISTING STORMWATER PIPE
- EXISTING RETAINING WALL
- EXISTING SEWER MAIN
- EXISTING WATER MAIN
- EXISTING NBN
- EXISTING ELECTRICAL
- EXISTING GAS MAIN

Bar Scales

0 5 10 15 20

1 : 250 @ A1 1 : 500 @ A3

B	REVISED HARDSTAND LEVELS	05/07/21
A	ISSUED FOR APPROVAL	24/06/21
P1	ISSUED FOR DRAFT	08/06/21

Issue	Description	Date
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Status

FOR APPROVAL

NOT TO BE USED FOR CONSTRUCTION

A1

Scales	15-272-C7521.dwg	
1 : 250	Drawn	JC
	Designed	JC
Height Datum	AHD	Checked FX
Grid	MGA	Approved FX

Client

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Project

PROPOSED INDUSTRIAL DEVELOPMENT

OAKDALE WEST - LOT 4E

Title

SITEWORKS AND STORMWATER DRAINAGE PLAN

SHEET 2

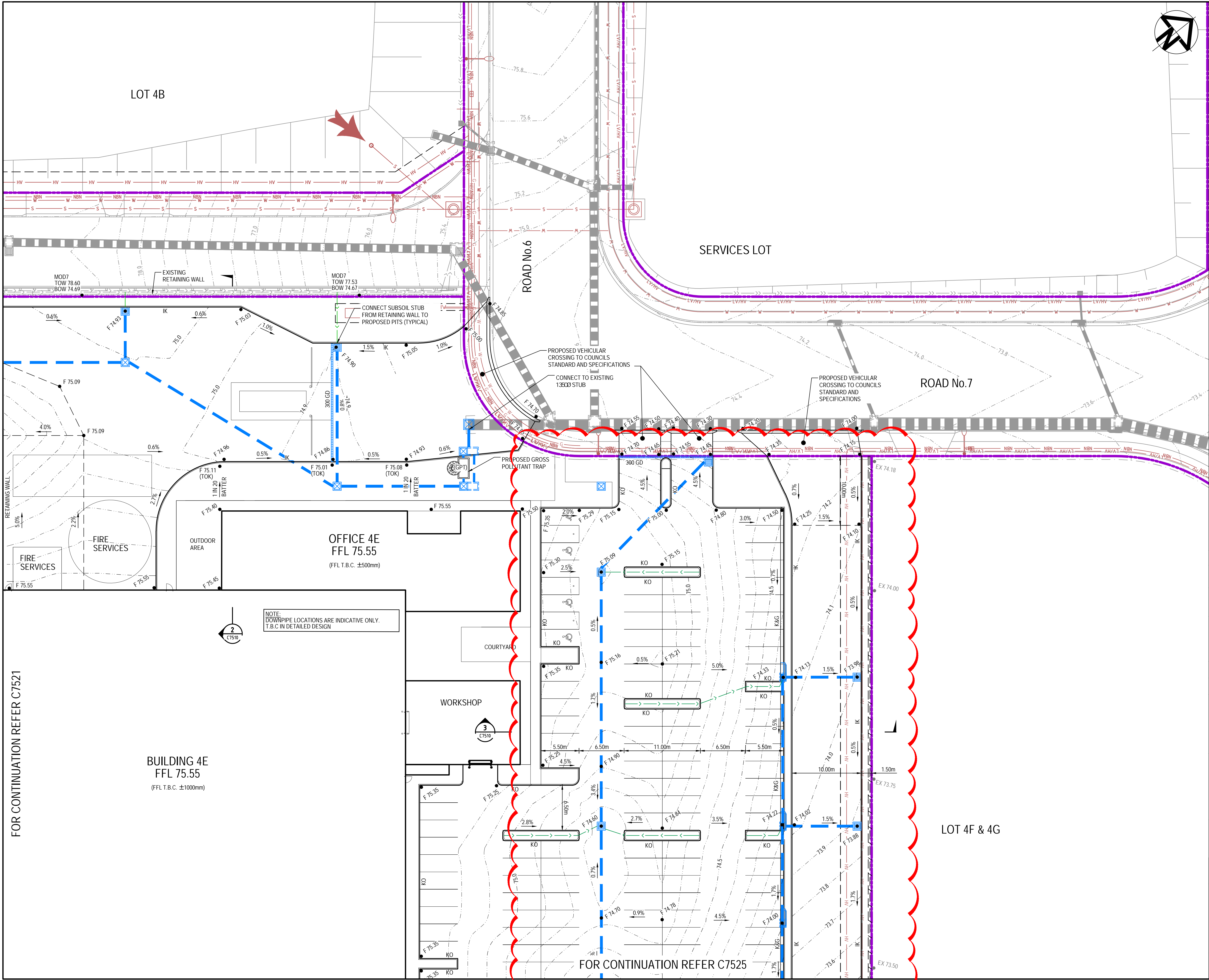
Drawing No.	Project No.	Issue
15-272-C7521	15-272	B

FOR CONTINUATION REFER C7520

FOR CONTINUATION REFER C7522

BUILDING 4E
FFL 75.55
(FFL T.B.C. ±1000mm)

FOR CONTINUATION REFER C7524



LEGEND

- EXISTING BOUNDARY
- PROPOSED BOUNDARY
- 65.0 PROPOSED CONTOUR
- K&G KERB AND GUTTER
- KO KERB ONLY
- IK INTEGRAL KERB ONLY
- F74.00 FINISHED SURFACE LEVEL
- 300mm STORMWATER PIPE WITH SIZE
- GD STORMWATER GRATED DRAIN WITH CLASS 'D' COVER
- DP STORMWATER DOWNPIPE
- GUARD RAIL SAFETY BARRIER
- SUBSOIL DRAINAGE (100mmØ)
- KERB INLET PIT
- SURFACE INLET PIT
- JUNCTION PIT
- EXISTING STORMWATER PIPE
- EXISTING RETAINING WALL
- S EXISTING SEWER MAIN
- W EXISTING WATER MAIN
- NBN EXISTING NBN
- LV/HV EXISTING ELECTRICAL
- G EXISTING GAS MAIN

Bar Scales

0 5 10 15 20

1 : 250 @ A1 1 : 500 @ A3

C	REVISED STORMWATER	19/07/21
B	REVISED HARDSTAND LEVELS	05/07/21
A	ISSUED FOR APPROVAL	24/06/21
P1	ISSUED FOR DRAFT	08/06/21
Issue	Description	Date

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Status

FOR APPROVAL

NOT TO BE USED FOR CONSTRUCTION

A1

Scales

1 : 250

15-272-C7522.dwg

Height Datum	AHD	Checked	FX
Grid	MGA	Approved	FX

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Project

PROPOSED INDUSTRIAL DEVELOPMENT
OAKDALE WEST - LOT 4E

Title

SITEWORKS AND STORMWATER DRAINAGE PLAN
SHEET 3

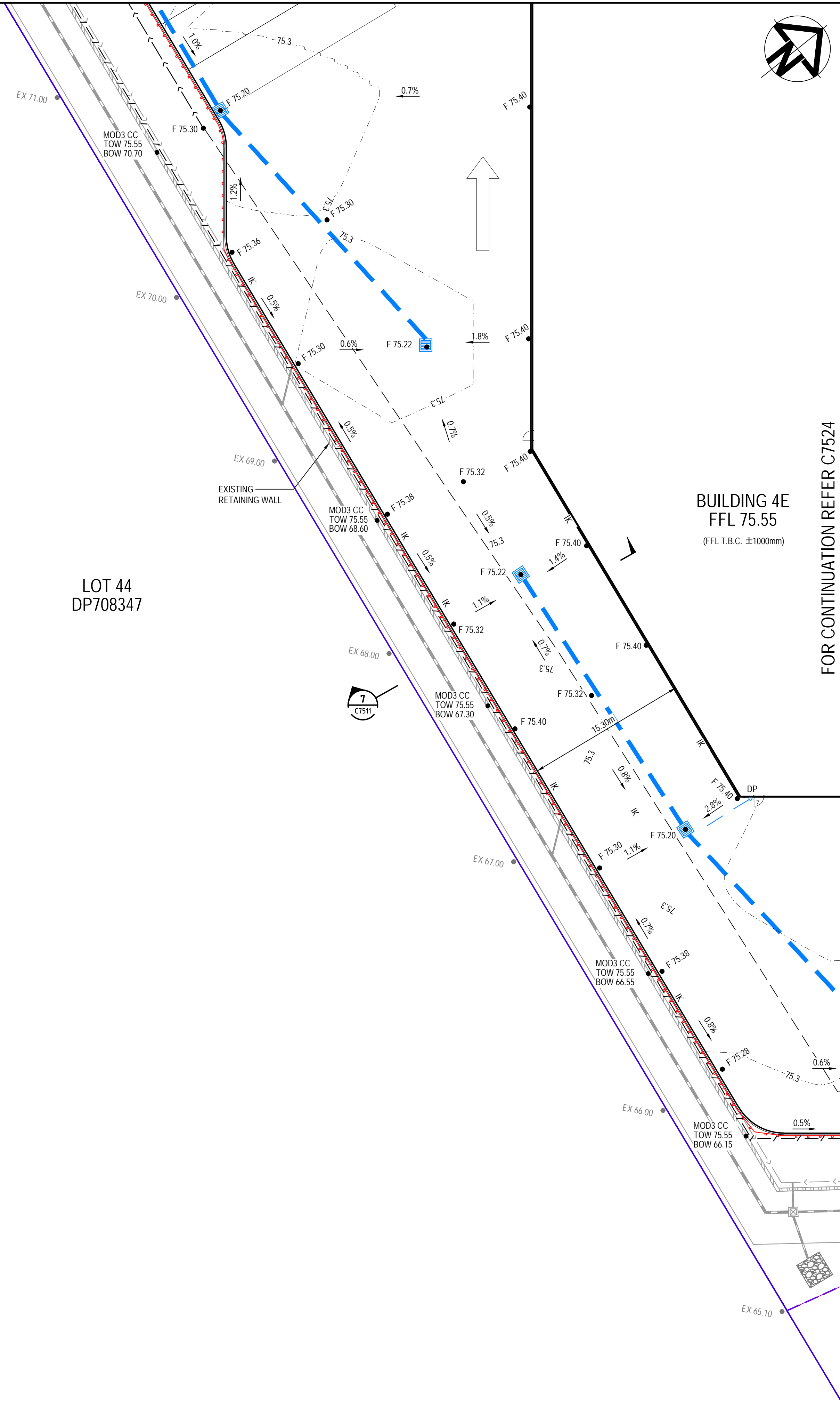
Drawing No.	Project No.	Issue
15-272-C7522	15-272	C

FOR CONTINUATION REFER C7521

FOR CONTINUATION REFER C7525

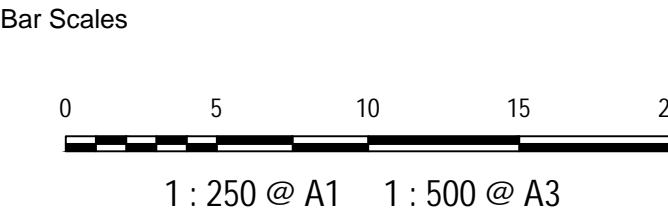
LOT 4F & 4G

FOR CONTINUATION REFER C7520



LEGEND

- EXISTING BOUNDARY
- PROPOSED BOUNDARY
- 65.0 PROPOSED CONTOUR
- K&G KERB AND GUTTER
- KO KERB ONLY
- IK INTEGRAL KERB ONLY
- F74.00 FINISHED SURFACE LEVEL
- Ø375 STORMWATER PIPE WITH SIZE
- GD STORMWATER GRATED DRAIN WITH CLASS 'D' COVER
- DP STORMWATER DOWNPIPE
- GUARD RAIL SAFETY BARRIER
- SUBSOIL DRAINAGE (100mmØ)
- KERB INLET PIT
- SURFACE INLET PIT
- JUNCTION PIT
- EXISTING STORMWATER PIPE
- EXISTING RETAINING WALL
- S EXISTING SEWER MAIN
- V EXISTING WATER MAIN
- NBN EXISTING NBN
- LV/HV EXISTING ELECTRICAL
- G EXISTING GAS MAIN



B	ISSUED FOR APPROVAL	05/07/21
A	ISSUED FOR APPROVAL	24/06/21
P1	ISSUED FOR DRAFT	08/06/21

Issue	Description	Date
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Status	FOR APPROVAL	A1
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Scales	1 : 250	15-272-C7523.dwg	
		Drawn	JC
Height Datum	AHD	Checked	FX
		Approved	FX
Grid	MGA	Approved	FX



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Project

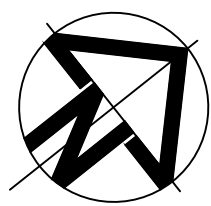
**PROPOSED INDUSTRIAL DEVELOPMENT
OAKDALE WEST - LOT 4E**

Title

**SITEWORKS AND STORMWATER DRAINAGE
PLAN
SHEET 4**

Drawing No.	Project No.	Issue
15-272-C7523	15-272	B

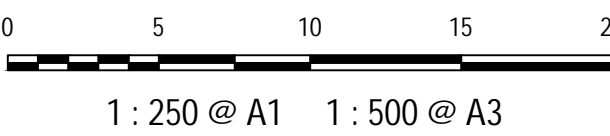
FOR CONTINUATION REFER C7521



LEGEND

- EXISTING BOUNDARY
- PROPOSED BOUNDARY
- 65.0 PROPOSED CONTOUR
- K&G KERB AND GUTTER
- KO KERB ONLY
- IK INTEGRAL KERB ONLY
- F74.00 FINISHED SURFACE LEVEL
- 0375 STORMWATER PIPE WITH SIZE
- GD STORMWATER GRATED DRAIN WITH CLASS 'D' COVER
- DP STORMWATER DOWNPIPE
- GUARD RAIL SAFETY BARRIER
- SUBSOIL DRAINAGE (100mmØ)
- KERB INLET PIT
- SURFACE INLET PIT
- JUNCTION PIT
- EXISTING STORMWATER PIPE
- EXISTING RETAINING WALL
- S EXISTING SEWER MAIN
- V EXISTING WATER MAIN
- NBN EXISTING NBN
- LV/HV EXISTING ELECTRICAL
- G EXISTING GAS MAIN

Bar Scales



B	ISSUED FOR APPROVAL	05/07/21
A	ISSUED FOR APPROVAL	24/06/21
P1	ISSUED FOR DRAFT	08/06/21
Issue	Description	Date

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Status	FOR APPROVAL	A1
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Scales	1 : 250	15-272-C7524.dwg	
		Drawn	JC
		Designed	JC
Height Datum	AHD	Checked	FX
Grid	MGA	Approved	FX



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Project
**PROPOSED INDUSTRIAL DEVELOPMENT
OAKDALE WEST - LOT 4E**

Title
**SITEWORKS AND STORMWATER DRAINAGE
PLAN
SHEET 5**

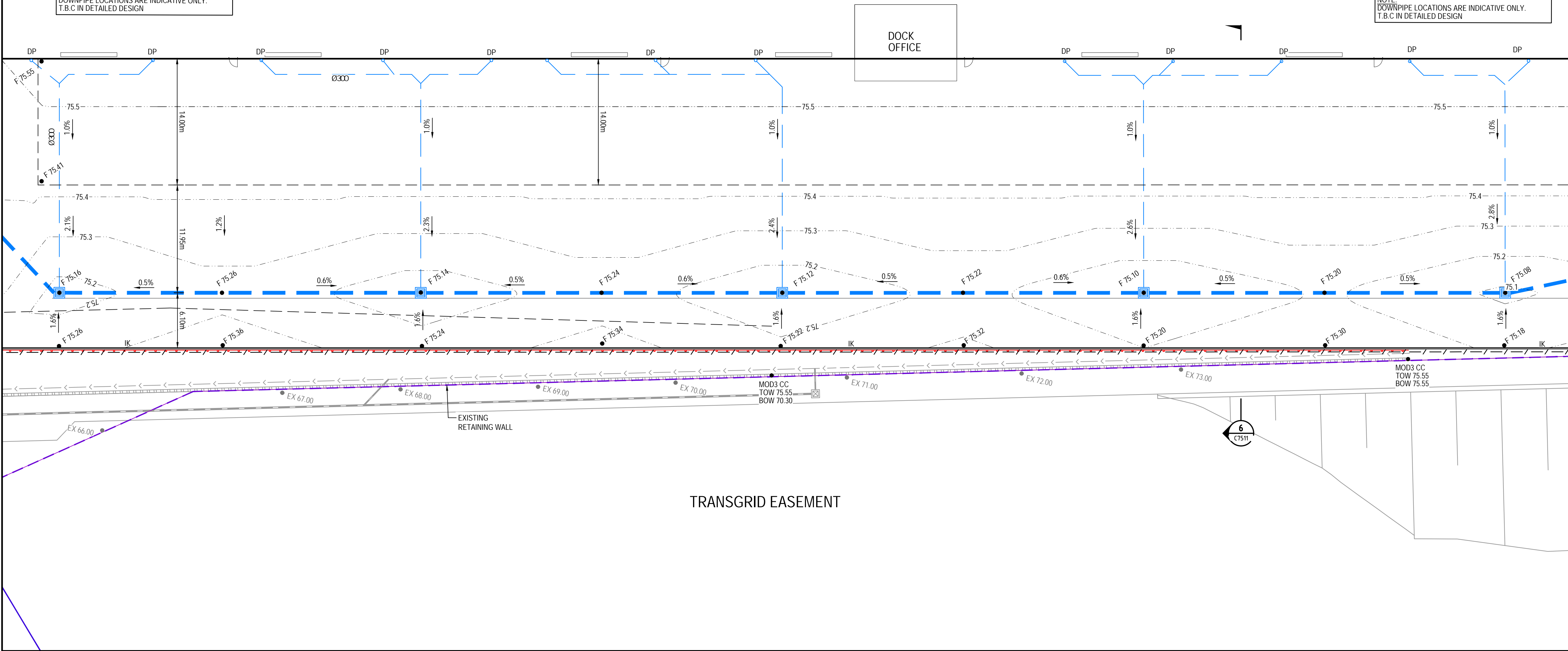
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15-272-C7524	15-272	B

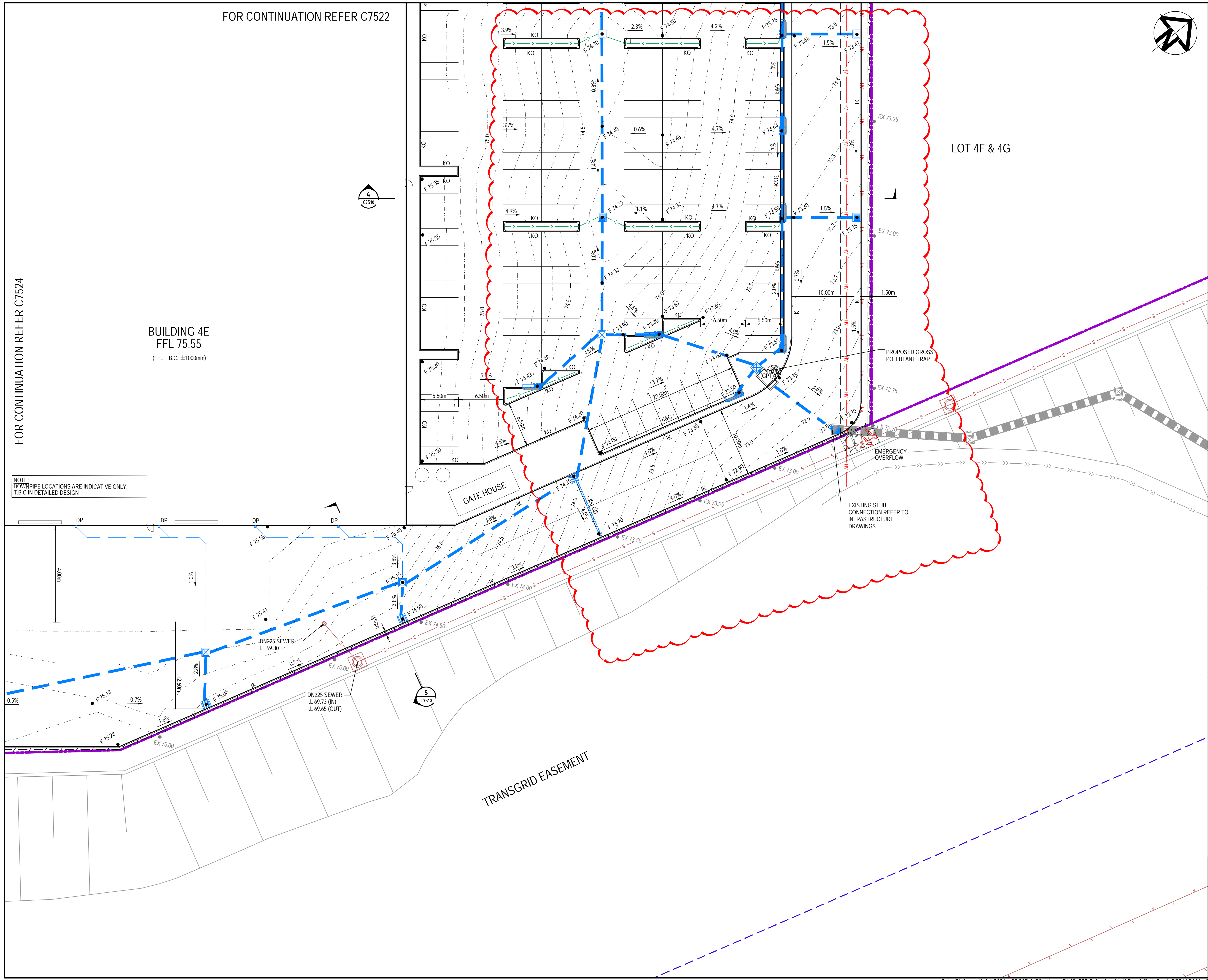
FOR CONTINUATION REFER C7523

FOR CONTINUATION REFER C7525

NOTE:
DOWNPIPE LOCATIONS ARE INDICATIVE ONLY.
T.B.C IN DETAILED DESIGN

NOTE:
DOWNPIPE LOCATIONS ARE INDICATIVE ONLY.
T.B.C IN DETAILED DESIGN





LEGEND

- EXISTING BOUNDARY
- PROPOSED BOUNDARY
- 65.0 PROPOSED CONTOUR
- K&G KERB AND GUTTER
- KO KERB ONLY
- IK INTEGRAL KERB ONLY
- F74.00 FINISHED SURFACE LEVEL
- Ø375 STORMWATER PIPE WITH SIZE
- GD STORMWATER GRATED DRAIN WITH CLASS 'D' COVER
- DP STORMWATER DOWNPIPE
- GUARD RAIL SAFETY BARRIER
- SUBSOIL DRAINAGE (100mmØ)
- KERB INLET PIT
- SURFACE INLET PIT
- JUNCTION PIT
- EXISTING STORMWATER PIPE
- EXISTING RETAINING WALL
- S EXISTING SEWER MAIN
- V EXISTING WATER MAIN
- NBN EXISTING NBN
- LV/HV EXISTING ELECTRICAL
- G EXISTING GAS MAIN

Bar Scales

0 5 10 15 20

1 : 250 @ A1 1 : 500 @ A3

D	REVISED STORMWATER	19/07/21
C	REVISED STORMWATER	15/07/21
B	ISSUED FOR APPROVAL	05/07/21
A	ISSUED FOR APPROVAL	24/06/21
P1	ISSUED FOR DRAFT	08/06/21
Issue	Description	Date

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Status	FOR APPROVAL		A1
NOT TO BE USED FOR CONSTRUCTION			
Scales	15-272-C7525.dwg		
1 : 250	Drawn	JC	
	Designed	JC	
Height Datum	AHD	Checked	FX
Grid	MGA	Approved	FX

Client

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Project

**PROPOSED INDUSTRIAL DEVELOPMENT
OAKDALE WEST - LOT 4E**

Title

**SITWORKS AND STORMWATER DRAINAGE PLAN
SHEET 6**

Drawing No.	Project No.	Issue
15-272-C7525	15-272	D

FOR CONTINUATION REFER C7524

BUILDING 4E
FFL 75.55
(FFL T.B.C. ±1000mm)

NOTE:
DOWNPIPE LOCATIONS ARE INDICATIVE ONLY.
T.B.C IN DETAILED DESIGN

GATE HOUSE

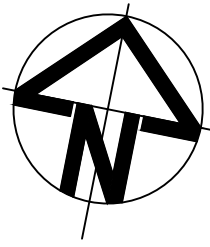
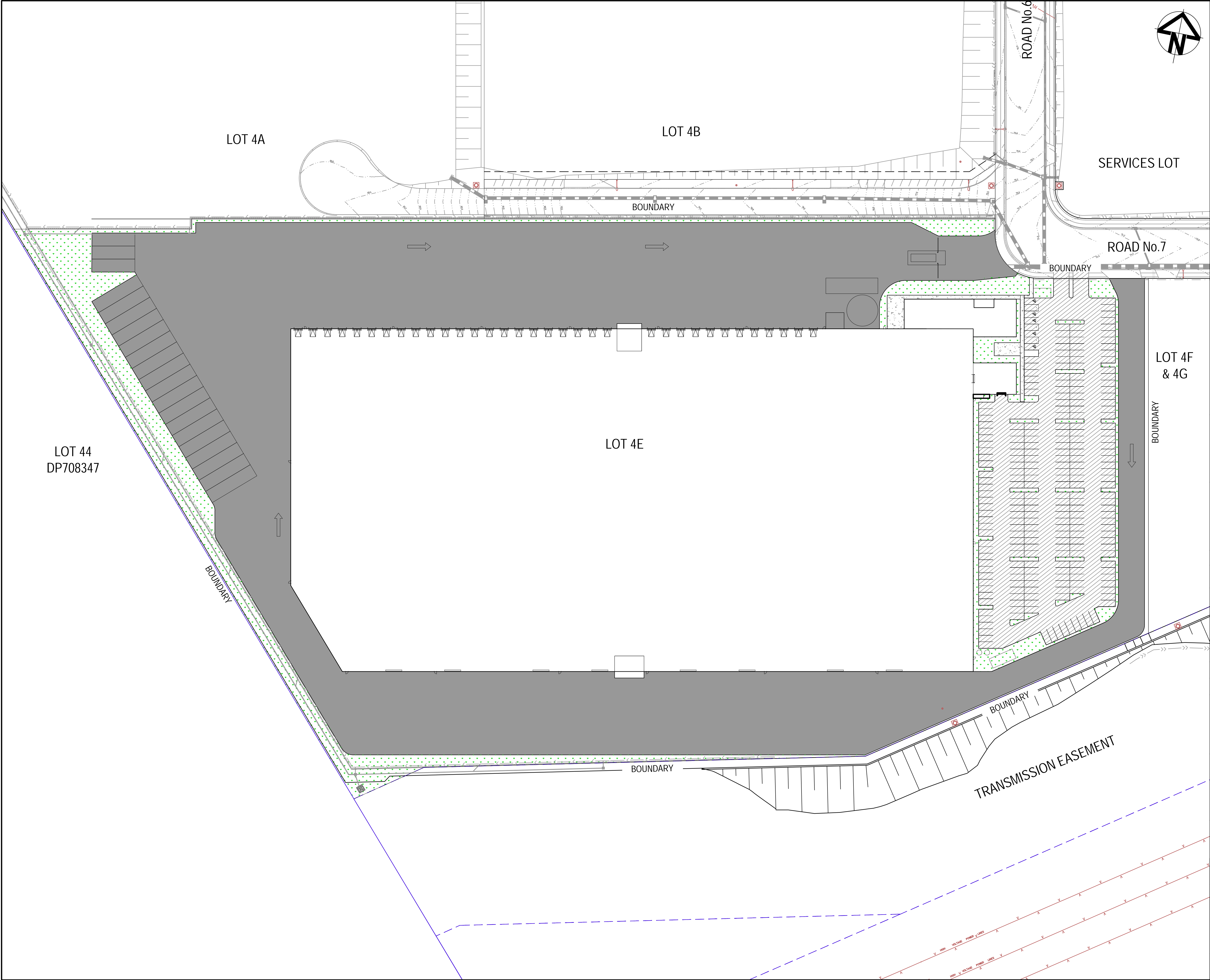
TRANSGRID EASEMENT

LOT 4F & 4G

PROPOSED GROSS POLLUTANT TRAP

EMERGENCY OVERFLOW

EXISTING STUB CONNECTION REFER TO INFRASTRUCTURE DRAWINGS



LEGEND

HEAVY DUTY RIGID PAVEMENT

ASPHALT PAVEMENT
CARPARK AISLES

LANDSCAPE

FOOTPATH

FIRE ACCESS TRACK

NOTE: PAVEMENT THICKNESS SUBJECT TO DETAILED DESIGN

Bar Scales

015304560

1 : 750 @ A11 : 1500 @ A3

B	ISSUED FOR APPROVAL	05/07/21
A	ISSUED FOR APPROVAL	24/06/21
P1	ISSUED FOR DRAFT	08/06/21
Issue	Description	Date

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Status

FOR APPROVALA1

NOT TO BE USED FOR CONSTRUCTION

Scales	1 : 750	15-272-C7530.dwg	
		Drawn	JC
Height Datum	AHD	Designed	JC
		Checked	FX
Grid	MGA	Approved	FX

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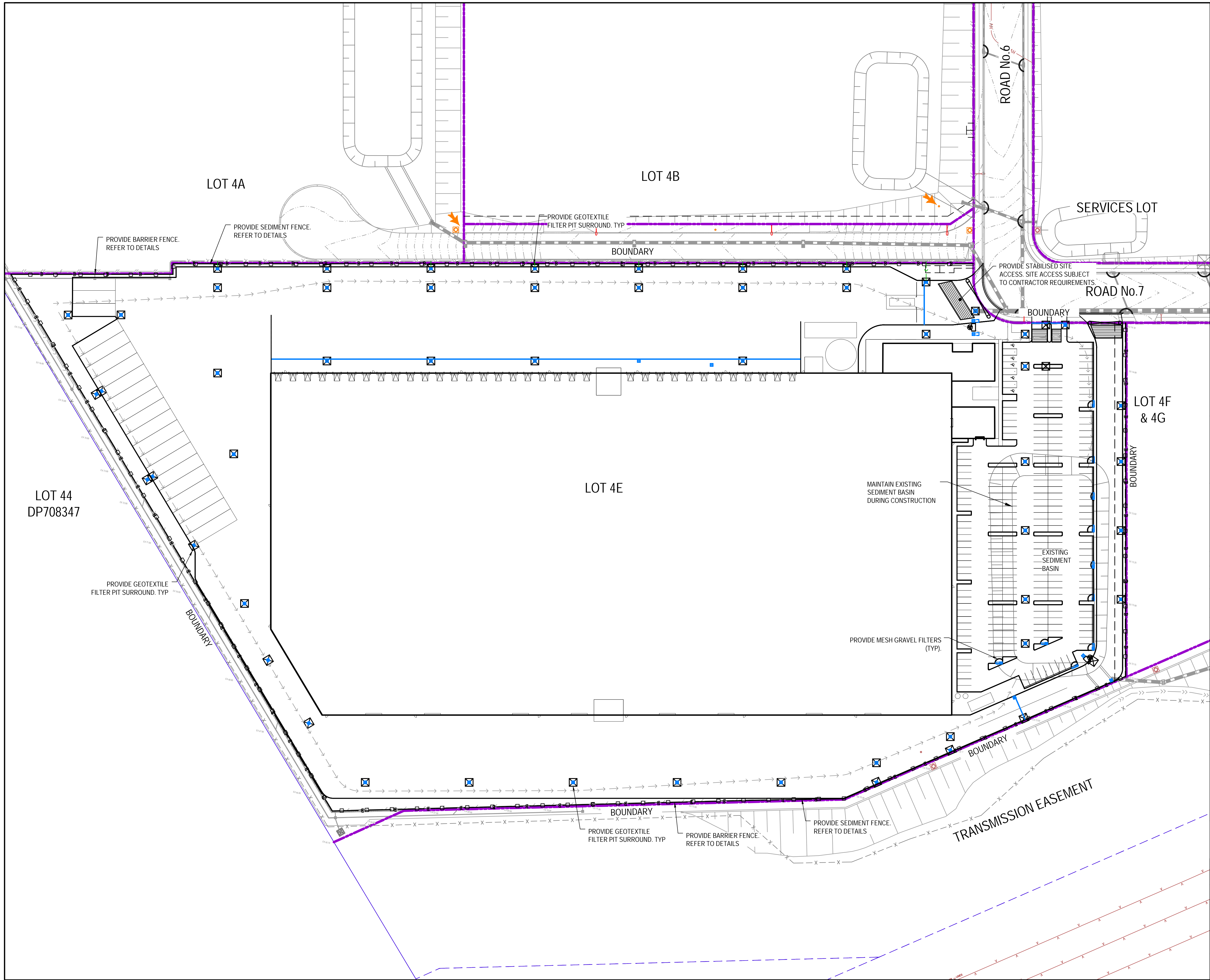
Project

PROPOSED INDUSTRIAL DEVELOPMENT
OAKDALE WEST - LOT 4E

Title

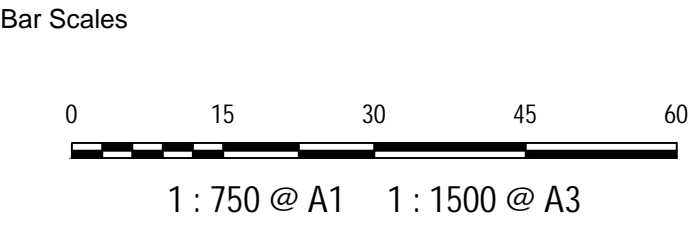
PAVEMENT PLAN

Drawing No.	Project No.	Issue
15-272-C7530	15-272	B



LEGEND

- SEDIMENT FENCE (SD 6-8)
- CATCH DRAIN
- BARRIER FENCE
- STRAW BALE FILTER (SD 6-7)
- MESH AND GRAVEL INLET FILTER (SD 6-11)
- GEOTEXTILE INLET (SD 6-12)
- STABILISED SITE ACCESS AND TRUCK WASH DOWN AREA (SD 6-14)
- PROPOSED SITE ACCESS GATE



C	REVISED STORMWATER	19/07/21
B	ISSUED FOR APPROVAL	05/07/21
A	ISSUED FOR APPROVAL	24/06/21
P1	ISSUED FOR DRAFT	08/06/21

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Status	FOR APPROVAL	A1
NOT TO BE USED FOR CONSTRUCTION		

Scales	1 : 750	15-272-C7540.dwg
Height Datum	AHD	Checked FX
Grid	MGA	Approved FX



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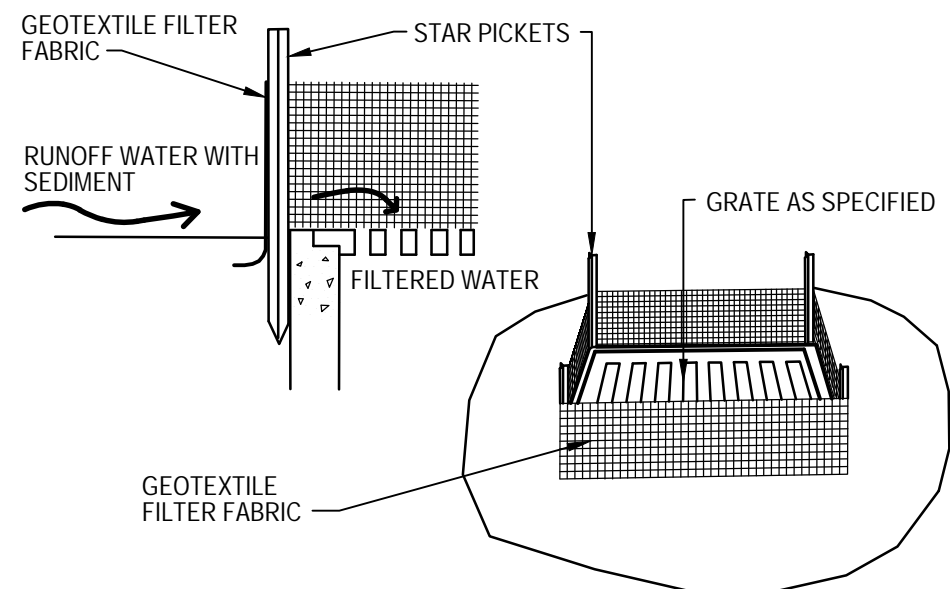
Project

**PROPOSED INDUSTRIAL DEVELOPMENT
OAKDALE WEST - LOT 4E**

Title

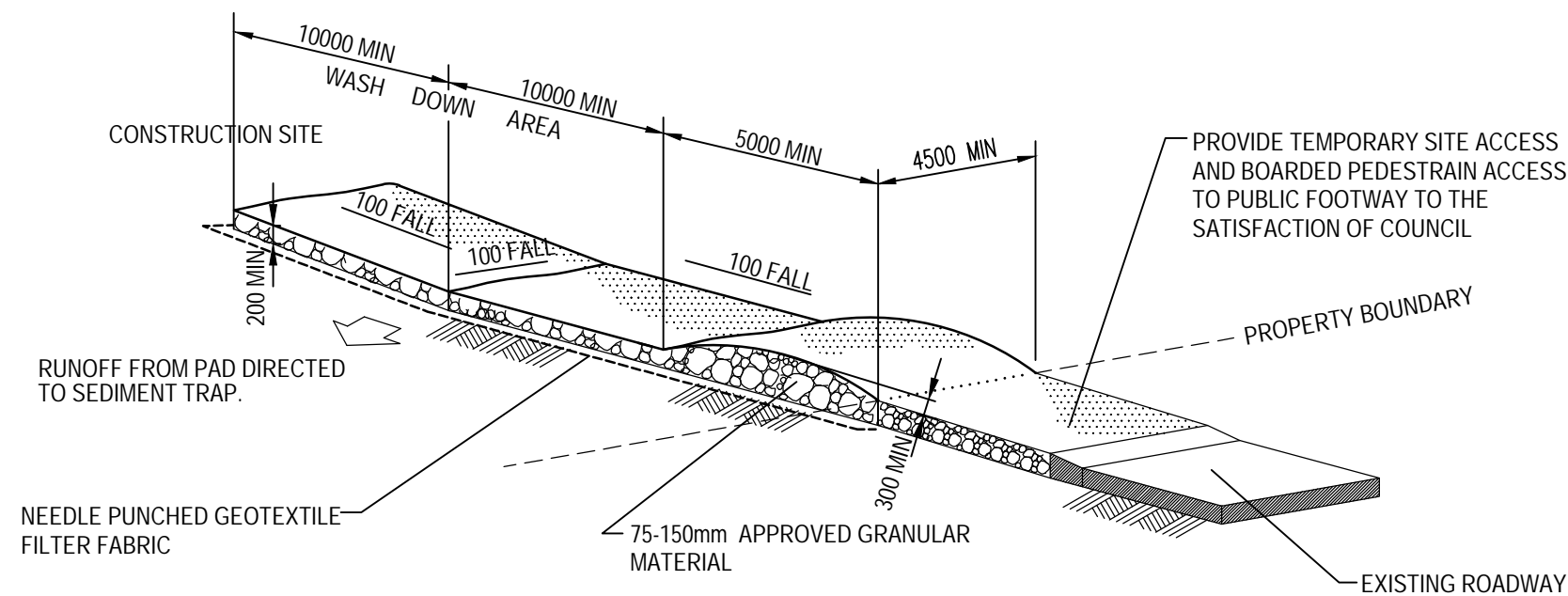
EROSION AND SEDIMENT CONTROL PLAN

Drawing No.	Project No.	Issue
15-272-C7540	15-272	C



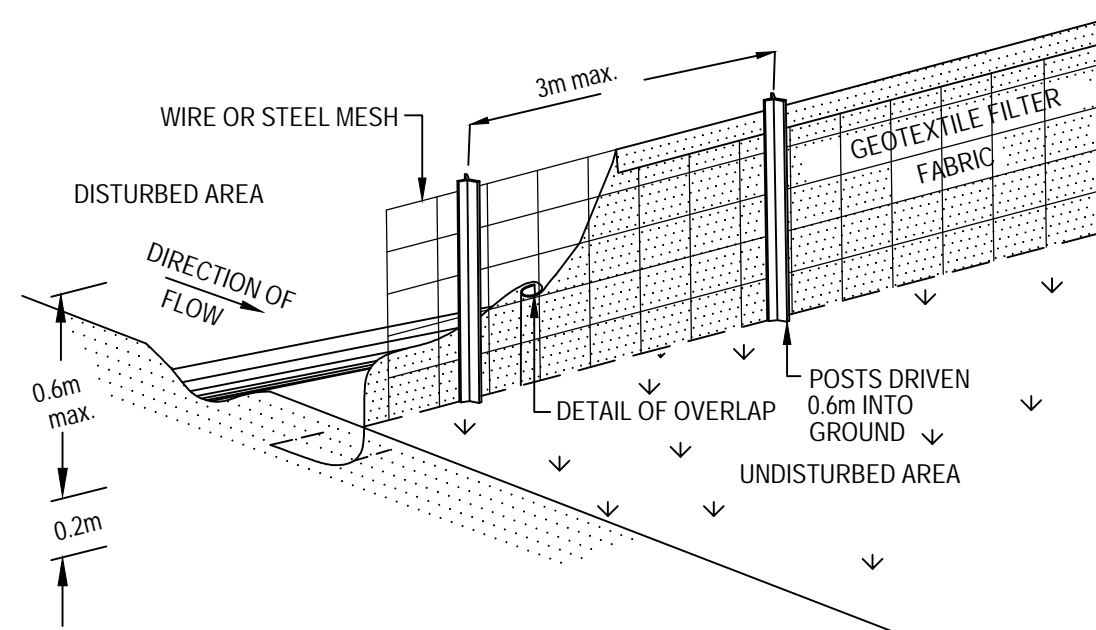
GEOTEXTILE FILTER PIT SURROUND

NTS



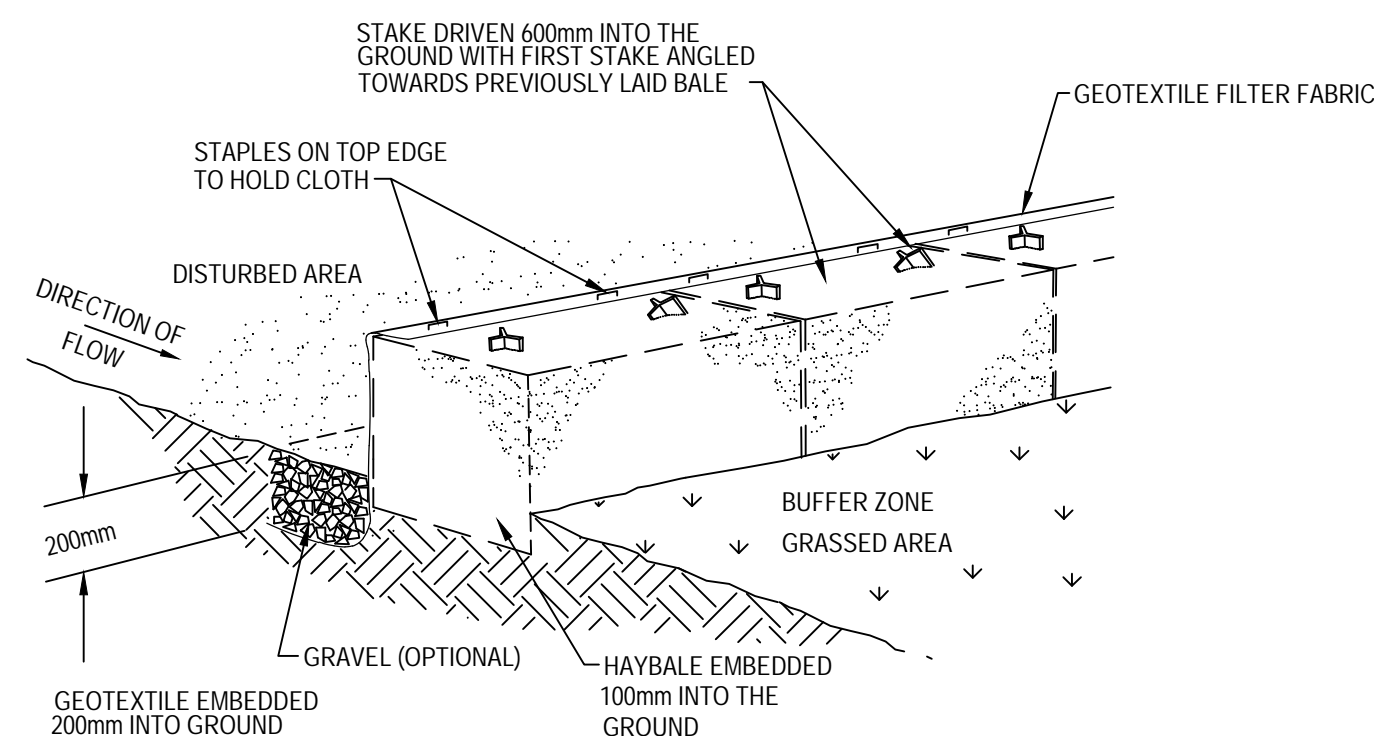
STABILISED SITE ACCESS AND TRUCK WASH DOWN AREA

NTS



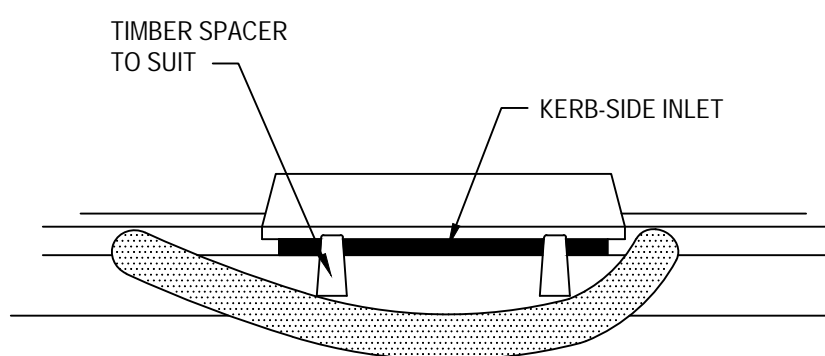
SEDIMENT FENCE

NTS



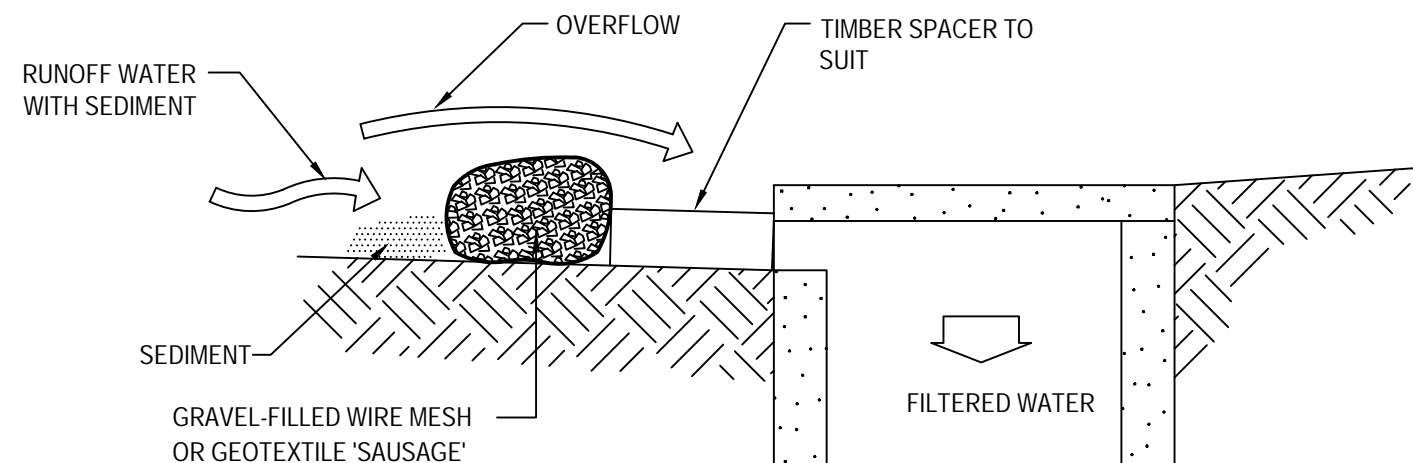
HAYBALE AND GEOTEXTILE SEDIMENT FILTER

NTS



MESH AND GRAVEL INLET FILTER

NTS



Bar Scales

B	ISSUED FOR APPROVAL	05/07/21
A	ISSUED FOR APPROVAL	24/06/21
P1	ISSUED FOR DRAFT	08/06/21

Issue	Description	Date
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Status	FOR APPROVAL	A1
NOT TO BE USED FOR CONSTRUCTION		

Scales	NTS	15-272-C7541.dwg	
		Drawn	JC
		Designed	JC
Height Datum	AHD	Checked	FX
Grid	MGA	Approved	FX



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Project
PROPOSED INDUSTRIAL DEVELOPMENT
OAKDALE WEST - LOT 4E

Title
EROSION AND SEDIMENT DETAILS

Drawing No.	Project No.	Issue
15-272-C7541	15-272	B