PLANS AND DOCUMENTS
referred to in the PDA
DEVELOPMENT APPROVAL

Approval no: DEV2022/1309

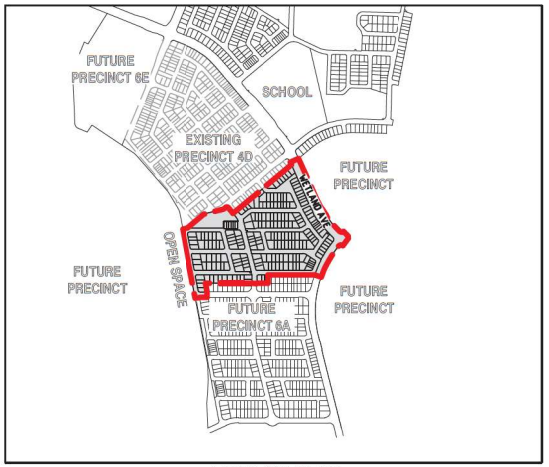
Date: 26 October 2022

Queensland Government

YARRABILBA

PRECINCT 4E
BULK EARTHWORKS

PLAN
SCALE 1:2500



LOCALITY PLAN
SCALE 1:10000

GENERAL NOTES

1. ALL WORK SHALL BE JOINED NEATLY TO EXISTING CONSTRUCTION.
2. WHERE REFERENCE IS MADE ON THESE DRAWINGS TO A KERB LINE, IT SHALL BE TAKEN TO MEAN THE KERB INVERT LINE.
3. LEVELS FOR KERB AND CHANNEL CONSTRUCTION ARE SHOWN AT LIP OF CHANNEL UNLESS SHOWN OTHERWISE.
4. KERB AND CHANNEL AND SPOON DRAINS SHALL BE CONSTRUCTED IN ACCORDANCE WITH INSTITUTE OF PUBLIC WORKS ENGINEERING AUSTRALIA STANDARD DWG NO SEQ RS-80. SPOON DRAINS ACROSS ROAD INTERSECTIONS SHALL BE IN ACCORDANCE WITH INSTITUTE OF PUBLIC WORKS ENGINEERING AUSTRALIA STD DWG NO SEQ RS-80. THE CONCRETE SHALL BE CLASS N32 AND THE DEPTH INCREASED BY 50mm TO 175mm AT INVERT. FLUSH KERB TO BE INCREASED IN DEPTH BY 50mm TO 280mm.
5. IF MACHINE MADE KERB AND CHANNEL IS USED, EXTRA FINES AND 20mm SLUMP IS REQUIRED.
6. ALL DRAINAGE CENTRE LINES ARE 2m FROM INVERT OF KERB UNLESS OTHERWISE SHOWN.
7. GULLY CONNECTIONS AND STORM WATER PIPES SHALL BE 375mm DIAMETER CLASS '2' R.C. PIPES UNLESS SHOWN OTHERWISE.
8. THE CONTRACTOR SHALL INITIALLY EXCAVATE THE PAVEMENT BOX TO 445mm BELOW THE FINISHED PAVEMENT LEVEL SHOWN ON THE DRAWINGS. HE SHALL THEN NOTIFY THE ENGINEER WHO WILL FIX THE PAVEMENT THICKNESS TO BE CONSTRUCTED FOLLOWING THE RESULTS OF SUB-GRADE TESTING.
9. NOTWITHSTANDING THE LIMITS OF CUTTING AND FILLING SHOWN ON THE DRAWINGS, THE ACTUAL LIMITS SHALL BE DETERMINED ON SITE BY THE ENGINEER AND SIMILARLY THE FINISHED SURFACE CONTOURS MAY BE ADJUSTED BY WRITTEN DIRECTION OF THE ENGINEER DURING CONSTRUCTION.
10. THE MINIMUM CLEARANCE BETWEEN OUTER WALLS OF PIPES IN MANHOLES SHALL BE 150mm.
11. SUBSURFACE DRAIN CLEANING POINTS SHALL BE INSTALLED IN ACCORDANCE WITH IPWEAQ STD DWG NO SEQ RS-142.
12. CONSTRUCTION LOAD CONTROL ON THE INSTALLATION OF REINFORCED CONCRETE STORMWATER PIPE WORK SHALL BE UNDERTAKEN IN ACCORDANCE WITH THE RECOMMENDATIONS DEFINED IN THE CONCRETE PIPE ASSOCIATIONS OF AUSTRALASIA'S "THE INSTALLATIONS OF STEEL REINFORCED CONCRETE PIPES – MINIMUM PIPE COVER REQUIRED FOR VARIOUS COMPACTORS".
13. PRIOR TO COMMENCEMENT OF CONSTRUCTION, THE CONTRACTOR SHALL ERECT A 2 STRAND WIRE FENCE INCLUDING SAFETY BARRIER MESH TO THE PERIMETER OF VEGETATION TO BE RETAINED AND/OR EXCLUSION ZONES.
14. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION AND DEPTH OF EXISTING SERVICES WITH RELEVANT AUTHORITIES/DIAL BEFORE YOU DIG PRIOR TO COMMENCING WORKS.
15. THE CONTRACTOR SHALL NOTE THE PRESENCE OF EXISTING SERVICES ASSOCIATED WITH THE WORKS. SPECIAL CARE MUST BE TAKEN BY THE CONTRACTOR IN THE VICINITY OF ALL SERVICES.

DRAWING INDEX

DATUM A.H.D.
P.S.M. No 204810
E 513159.049
N 6921864.925
RL 55.389

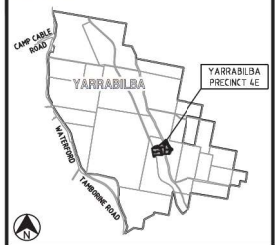
SCALE 50 0 50 100 150 200 250m
1 : 2500 (A1 UNREDUCED)

SCALE 100 50 0 100 200 300 400 500 600 700 800 900 1000m
1 : 10000 (A1 UNREDUCED)

DO NOT SCALE THIS DRAWING
IF IN DOUBT - ASK!

NORTH

SITE PLAN



REVISIONS

No	Description	Date	By
A	FOR APPROVAL	05.07.22	CE

Associated Consultants

rps

Client

lendlease

Project

YARRABILBA
PRECINCT 4E
BULK EARTHWORKS

kn group
ABN 35 112 53 611
L1, 62 Astor Tce
Spring Hill Q 4000
07 3017 1900
www.kngroup.com.au

Approved - RPEQ 12805
Robert William Mander
BEng(Civil), CPEng,
RPEQ:12805
2022.07.07 16:22:37 +10'00'

Drawing Title
GENERAL
LOCALITY PLAN,
DRAWING INDEX AND NOTES

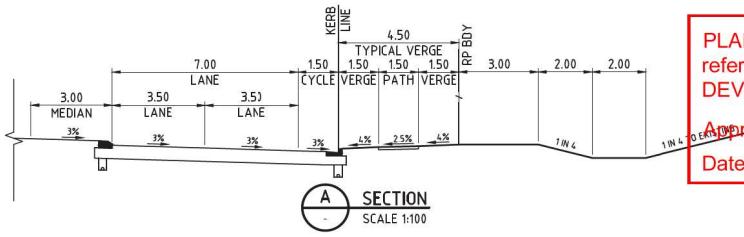
Drawn	Designed	Checked	Date
SLK	JAS	RWM	JUL 22

Scale	Sheet
AS SHOWN	01 of 06

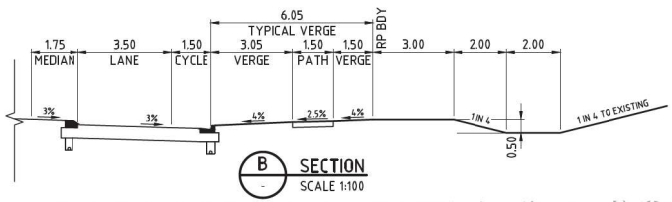
Drawing No	Revision
22-146-01	A

A1

C:\Users\kcheppdata\local\temp\AcPublish_13600\22-146-01-EW-COVER.dwg Plotted by: CE on 6/07/2022 4:25:47 PM



A SECTION
SCALE 1:100



B SECTION
SCALE 1:100

PLANS AND DOCUMENTS
referred to in the PDA
DEVELOPMENT APPROVAL

Approval no: DEV2022/1309

Date: 26 October 2022

Queensland Government

LEGEND

- EXTENT OF WORKS
- 37.0 FINISHED SURFACE CONTOURS
- 36.0 NATURAL SURFACE CONTOURS
- VEGETATION OFFSET LINE
- EXTENT OF CUT
- EXTENT OF FILL

× EXTENT OF CLEARING LINE TO BE SURVEYED AND FENCE INSTALLED PRIOR TO COMMENCEMENT OF CLEARING.
SURVEY OF INSTALLED FAUNA / FLORA FENCE TO BE PROVIDED TO SUPERINTENDENTS REPRESENTATIVE AND NATURA PACIFIC FOR RECORDS.

WETLAND AVE

PROPOSED PRECINCT 4E

BULK EARTHWORKS PLAN
SCALE 1:1000

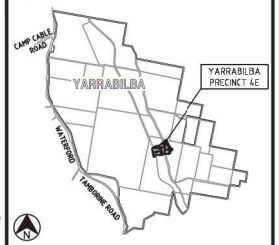
SCALE 1 0.5 0 1 2 3 4 5 6 7 8 9 10m
1 : 100 (A1 UNREDUCED)

SCALE 10 5 0 10 20 30 40 50 60 70 80 90 100m
1 : 1000 (A1 UNREDUCED)

DO NOT SCALE THIS DRAWING
IF IN DOUBT - ASK!

NORTH

SITE PLAN



REVISIONS

No	Description	Date	By
A	FOR APPROVAL	05.07.22	CE

Associated Consultants

rps

Client

lendlease

Project

YARRABILBA
PRECINCT 4E
BULK EARTHWORKS

kn group
ABN 35 112 53 611
L1, 62 Astor Tce
Spring Hill Q 4000
07 3017 1900
www.kngroup.com.au

Approved - RPEQ 12805
Robert William Mander
BEng(Civil), CPEng,
RPEQ:12805
2022.07.07 16:22:47 +10'00'

Drawing Title
BULK EARTHWORKS
LAYOUT PLAN
AND TYPICAL SECTIONS

Drawn	Designed	Checked	Date
SLK	JAS	RWM	JUL 22

Scale	Sheet
AS SHOWN	02 of 06

Drawing No	Revision
22-146-02	A

A1

C:\Users\kelsappdata\local\temp\AcPublish_13600\Unsaved Drawing1.dwg Plotted by CE on 6/07/2022 4:25:56 PM

PLANS AND DOCUMENTS
referred to in the PDA
DEVELOPMENT APPROVAL

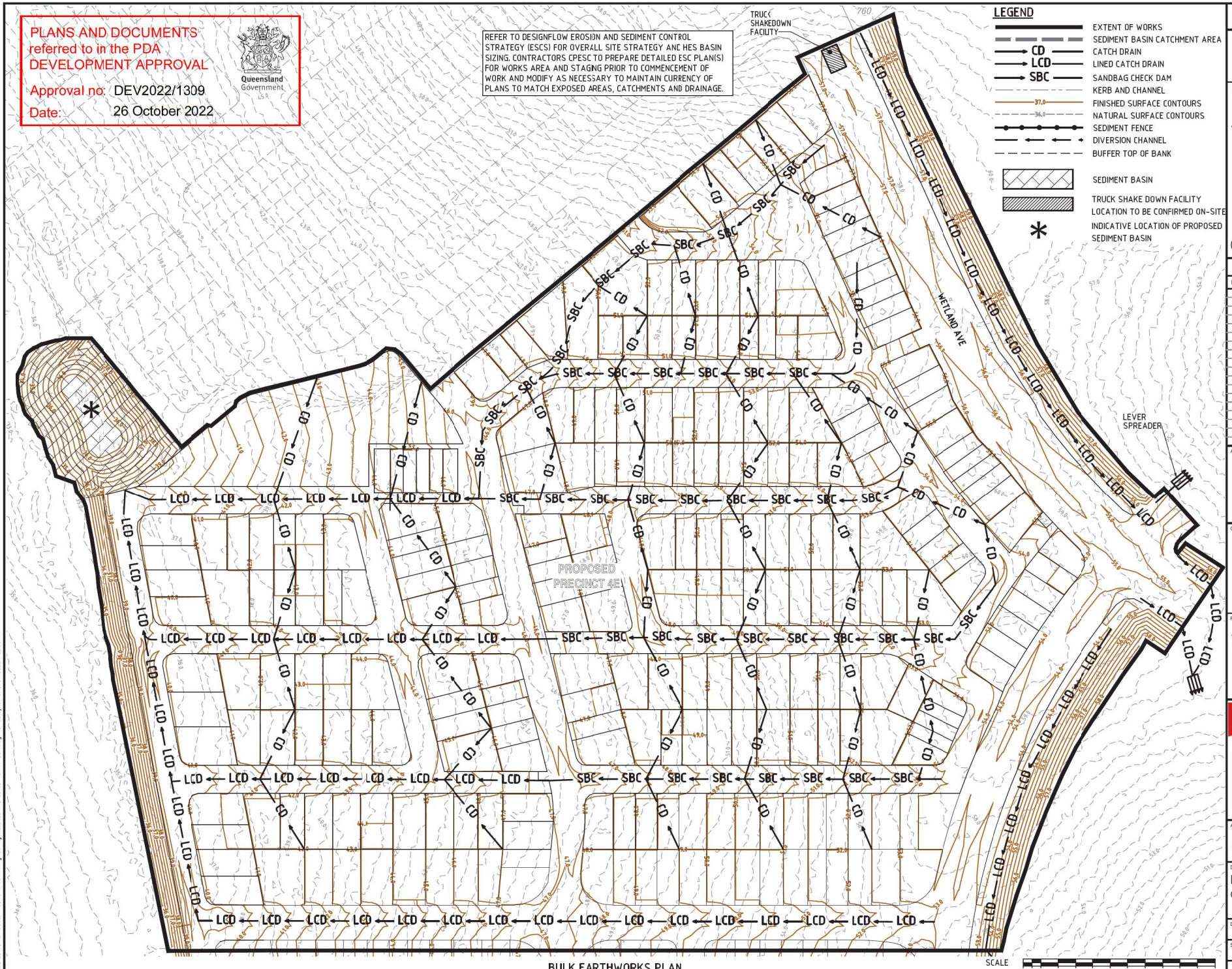
Approval no: DEV2022/1309

Date: 26 October 2022

Queensland Government

REFER TO DESIGNFLOW EROSION AND SEDIMENT CONTROL STRATEGY (ESCS) FOR OVERALL SITE STRATEGY ANC HES BASIN SIZING. CONTRACTORS CPESC TO PREPARE DETAILED ESC PLAN(S) FOR WORKS AREA AND STAGNG PRIOR TO COMMENCEMENT OF WORK AND MODIFY AS NECESSARY TO MAINTAIN CURRENCY OF PLANS TO MATCH EXPOSED AREAS, CATCHMENTS AND DRAINAGE.

TRUCK SHAKEDOWN FACILITY



BULK EARTHWORKS PLAN
SCALE 1:1000

LEGEND

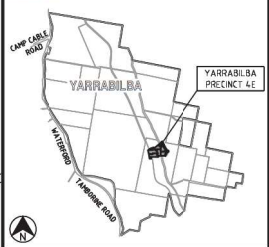
- EXTENT OF WORKS
- SEDIMENT BASIN CATCHMENT AREA
- CD — CATCH DRAIN
- LCD — LINED CATCH DRAIN
- SBC — SANDBAG CHECK DAM
- KERB AND CHANNEL
- 37.0 — FINISHED SURFACE CONTOURS
- 36.0 — NATURAL SURFACE CONTOURS
- SEDIMENT FENCE
- DIVERSION CHANNEL
- BUFFER TOP OF BANK
- SEDIMENT BASIN
- TRUCK SHAKE DOWN FACILITY LOCATION TO BE CONFIRMED ON-SITE
- * INDICATIVE LOCATION OF PROPOSED SEDIMENT BASIN

SCALE
10 5 0 10 20 30 40 50 60 70 80 90 100m
1 : 1000 (A1 UNREDUCED)

DO NOT SCALE THIS DRAWING
IF IN DOUBT - ASK!

NORTH

SITE PLAN



REVISIONS

No	Description	Date	By
A	FOR APPROVAL	05.07.22	CE

Associated Consultants

rps

Client

lendlease

Project

YARRABILBA

PRECINCT 4E
BULK EARTHWORKS

kn group

ABN 35 112 53 611
L1, 62 Astor Tce
Spring Hill Q 4000
07 3017 1900
www.knqroup.com.au

Approved - RPEQ 12805

Robert William Mander
BEng(Civil) CPEng,
RPEQ:12805
2022.07.07 16:22:55 +10'00'

Drawing Title

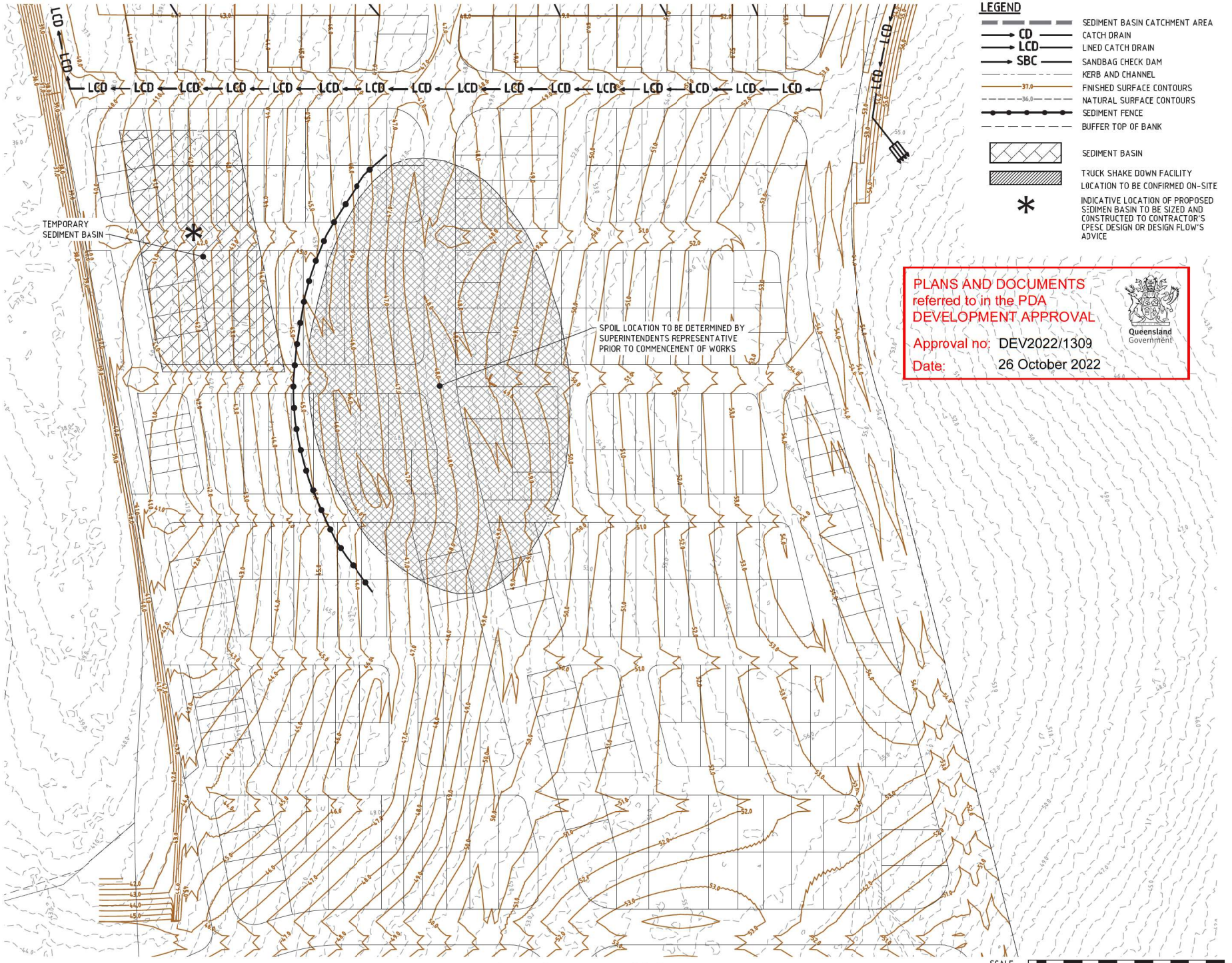
EROSION AND SEDIMENT CONTROL - LAYOUT PLAN

Drawn	Designed	Checked	Date
SLK	JAS	RWM	JUL 22

Scale	Sheet
AS SHOWN	03 of 06

Drawing No	Revision
A1 22-146-03	A

M:\2022\22146 Yarrabilba Precinct 4E BEW\Engineering\Autol\22-146-03-06-ESC_LAYOUT.dwg Plotted by CE on 6/07/2022 4:26:03 PM



SPOIL LOCATION PLAN AND SEDIMENT PLAN

SCALE 1:1000

DO NOT SCALE THIS DRAWING
IF IN DOUBT - ASK!

NORTH

SITE PLAN

REVISIONS

No	Description	Date	By
A	FOR APPROVAL	05.07.22	CE

Associated Consultants

rps

Client

lendlease

Project

YARRABILBA

PRECINCT 4E
BULK EARTHWORKS

kn group
ABN 35 112 53 611
L1, 62 Astor Tce
Spring Hill Q 4000
07 3017 1900
www.kngroup.com.au

Approved - RPEQ 12805

Robert William Mander
BEng(Civil), CPEng,
RPEQ:12805
2022.07.07 16:25:36 +10'00'

Drawing Title

PRECINCT 6A SPOIL LOCATION AND SEDIMENT PLAN
FUTURE PRECINCT

Drawn	Designed	Checked	Date
SLK	JAS	RWM	JUL 22

Scale	Sheet
AS SHOWN	04 of 06

	Drawing No	Revision
A1	22-146-04	A

M:\2022\22146 Yarrabilba Precinct 4E BEW\Engineering\Autodesk\22-146-03-06-ES_LAYOUT.dwg Plotted by CE on 6/07/2022 4:26:06 PM

EROSION AND SEDIMENT CONTROL PROGRAM

1. THIS PROGRAM AND ASSOCIATED PLANS SHOULD BE READ IN CONJUNCTION WITH THE SITE MANAGEMENT SPECIFICATION INCORPORATED IN THE CONTRACT DOCUMENTS. THE PROVISIONS OF THE SPECIFICATION ARE TO BE STRICTLY ADHERED TO.
2. EROSION AND SEDIMENT CONTROL ON THE SITE MUST MEET THE REQUIREMENTS OF THE ENVIRONMENTAL PROTECTION ACT (AS THESE APPLY TO PRIORITY DEVELOPMENT AREAS) IN PARTICULAR PARTS S440ZG AND S319.
3. THE BASIC OBJECTIVES OF THE EROSION AND SEDIMENT CONTROL ARE:
   I. IDENTIFY CRITICAL AREAS AND PROVIDE APPROPRIATE ATTENTION TO THOSE AREAS.
   II. PLAN SITE LAYOUTS SO THAT ACCESS TO ALL REQUIRED DRAINAGE EROSION AND SEDIMENT CONTROL MEASURE IS MAINTAINED.
   III. LIMIT EXPOSURE TIME BY PROGRAMMING TO MINIMISE THE AREA OF LAND EXPOSED TO POTENTIALLY ADVERSE WEATHER CONDITIONS AT ANY ONE TIME. I.E. PROGRESSIVELY CLEAR AND REVEGETATE.
   IV. PROVIDE BEST PRACTICE CONTROL MEASURES INCLUDING TEMPORARY AND PERMANENT DRAINAGE, EROSION AND SEDIMENT CONTROLS.
3. TO COMPLY WITH THE REQUIREMENTS OF THE EP ACT AND BEST PRACTICE DESIGN THE SEDIMENT BASINS ON THE SITE MUST BE DESIGN TO ACHIEVE THE FOLLOWING: SEDIMENT BASINS ARE TO BE DESIGNED, IMPLEMENTED AND MAINTAINED TO A STANDARD WHICH WOULD ACHIEVE AT LEAST 90% OF THE AVERAGE ANNUAL RUNOFF VOLUME OF THE CONTRIBUTING CATCHMENT TREATED (IE. 90% HYDROLOGIC EFFECTIVENESS) TO 50mg/LTSS OR LESS AND PH IN THE RANGE 6.5-8.5.
4. THE EROSION AND SEDIMENT CONTROL SHALL COMPLY WITH BEST PRACTICE FOR EROSION AND SEDIMENT CONTROL AND THE QUEENSLAND URBAN DRAINAGE MANUAL.
5. CONSTRUCTION SEQUENCE THE CONSTRUCTION SEQUENCE WILL GENERALLY BE:
   I. OBTAIN ALL NECESSARY PERMITS AND APPROVALS BEFORE SITE ESTABLISHMENTS.
   II. HOLD A PRE-CONSTRUCTION CONFERENCE.
   III. STABILISE ALL CONSTRUCTION ACCESS ROUTES AND ENTRY/EXIT POINTS.
   IV. ESTABLISH SEDIMENT CONTROL STRUCTURES AND TEMPORARY DRAINAGE CONTROL MEASURES AS NECESSARY AND SPECIFICALLY ALL SEDIMENT BASINS AND DIVERSION CHANNELS.
   V. CARRY OUT BULK EARTHWORKS.
   VI. MAINTAIN AND REPAIR DRAINAGE, EROSION AND SEDIMENT CONTROL MEASURES.
   VII. REMOVE SEDIMENT CONTROL MEASURES WHEN THE SITE IS STABILISED. I.E. >70% GROUND COVER
   VIII. THE CONTRACTOR SHALL PREPARE A SUPPLEMENTARY EROSION AND SEDIMENT CONTROL PLAN TO SUIT HIS/HER CONSTRUCTION METHODOLOGY, AND SUBMIT THIS PLAN FOR APPROVAL TO THE SUPERINTENDENT. IT SHOULD BE NOTED THAT ANY SIGNIFICANT VARIATION TO THIS PLAN MAY REQUIRE RESUBMISSION TO COUNCIL FOR APPROVAL. THE CLIENT SHALL NOT BE RESPONSIBLE FOR ANY SUCH ASSOCIATED DELAY.
5. ALL ESC DEVICES ARE TO BE INSPECTED WEEKLY, PRIOR TO EXPECTED AND AFTER RAINFALL ANY DAMAGE IS TO BE REPAIRED AS REQUIRED TO MAINTAIN THEIR EFFICACY.
6. ALL TEMPORARY EROSION AND SEDIMENT CONTROL (ESC) MEASURE TO BE MAINTAINED AND FULLY OPERATIONAL DURING THE MAINTENANCE PERIOD AND ARE TO BE REMOVED AFTER THE SATISFACTORY COMPLETION OF AN OFF-MAINTENANCE INSPECTION BY COUNCIL AND PRIOR TO FORMAL ACCEPTANCE "OFF MAINTENANCE" BY COUNCIL.
7. PRIOR TO THE COMMENCEMENT OF CONSTRUCTION, THE CONTRACTOR IS TO PROVIDE A DETAILED PROGRAM TO THE SUPERINTENDENT SHOWING THE TIMING FOR ALL WORKS ASSOCIATED WITH THE PROJECT, NOMINATING, IN PARTICULAR, THE PROGRAM FOR INSTALLATION OF SOIL AND EROSION CONTROL SYSTEMS.
8. EARTHWORKS SHALL BE CARRIED OUT IN SUCH A MANNER THAT THE SITE IS MAINTAINED IN A WELL DRAINED CONDITON, AREAS OF LOOSE SOIL ARE MINIMISED AND CONCENTRATIONS OF STORMWATER ARE MINIMISED. BULK EARTHWORKS WILL BE CARRIED OUT OVER THE ENTIRE SITE IN ONE STAGE.
9. CONSTRUCTION ACCESS AREAS SHALL BE AT ONE NOMINATED POINT ON SOUTH JEEBING CREEK ROAD. A SHAKE DOWN AS DETAILED ON THE PLAN COMPRISING FREE DRAINAGE GRAVEL SHALL BE LOCATED ADJACENT TO THE POINT OF ACCESS WHERE VEHICLES CAN BE WASHED DOWN PRIOR TO EXIT TO THE STREET SYSTEM IF REQUIRED. THE WASH DOWN AREA SHALL BE KEPT FREE OF MUD.
10. FOR DETAILS OF ENTRY/EXIT SEDIMENT PAD REFER TO BEST PRACTICE EROSION & SEDIMENT CONTROL BOOK 1, PAGE 2.48, FIGURE 2.6.
11. SUPPLEMENTARY EROSION AND SEDIMENT CONTROL DEVICES MAY BE REQUIRED AT THE DISCRETION OF THE SUPERINTENDENT.
12. SEDIMENTATION FENCES TO BE PLACED AS SHOWN. FOR DETAILS OF SEDIMENT FENCE REFER BEST PRACTICE EROSION & SEDIMENT CONTROL BOOK 1, PAGE 2.50, FIGURE 2.8.
13. WHERE SEDIMENT FENCES OR CATCH DRAINS ARE SHOWN TO BE CONSTRUCTED IN AREAS OF SIGNIFICANT EARTHWORKS, ERECTION OF THE FENCE MAY BE DEFERRED UNTIL COMPLETION OF THE BULK EARTHWORKS, SUBJECT TO ABSENCE OF RAIN.

TREES

1. ENSURE COMPLIANCE WITH THE REQUIREMENTS OF AS4970 - TREES ON CONSTRUCTION SITES. THIS MAY REQUIRE CONSULTATION AND GUIDANCE FROM A CLASS V CERTIFIED ARBORIST AS TREES OUTSIDE THE IMMEDIATE WORK AREA MAY BE AFFECTED.

PLANS AND DOCUMENTS
referred to in the PDA
DEVELOPMENT APPROVAL

Approval no: DEV2022/1309

Date: 26 October 2022

Queensland Government

EROSION AND SEDIMENTATION CONTROL NOTES:

TOPSOIL

1. STRIP AND STOCKPILE AVAILABLE TOPSOIL (ASSUMED AVERAGE DEPTH 150MM) FROM ALL DISTURBED AREAS PRIOR TO BULK EARTHWORKS. STOCKPILES TO BE STABILISED WITH APPLICATON OF VITAL CHEMICALS VITAL-BON STONEWALL OR EQUIVALENT.
2. MINIMUM SLOPE ACROSS ALLOTMENTS TO BE 1%.
3. ALL FOOTPATHS, BATTERS, AND EARTHWORKS AFFECTED ALLOTMENTS ARE TO BE TOPSOILED TO A MINIMUM DEPTH OF 150MM (LIGHTLY COMPACTED) AND TURFED WHERE SPECIFIED.
4. SEDIMENT FENCES TO BE PLACED AS SHOWN. FOR DETAILS OF SEDIMENT FENCE REFER BEST PRACTICE EROSION & SEDIMENT CONTROL BOOK 1, PAGE 2.50, FIGURE 2.7. SEDIMENT FENCED TO BE REPAIRED AND EXCESSIVE SEDIMENT DEPOSITS SHALL BE REMOVED ONCE CAPACITY FALLS BELOW 75%

SEDIMENT FENCES

1. FOR DETAILS OF SEDIMENT FENCE REFER BEST PRACTICE EROSION & SEDIMENT CONTROL BOOK 1, PAGE 2.50, FIGURE 2.8.
2. SEDIMENT FENCES TO BE REPAIRED AS REQUIRED AND EXCESSIVE SEDIMENT DEPOSITS SHOULD BE REMOVED.
3. INSTALL KERB INLETS WITH GRAVEL RANGING FROM 50MM TO 75MM IN SIZE SHALL BE INSTALLED AT ALL COMPLETED INLETS. REFER IPWEAQ STANDARD DRAWING D-8041. THESE SHALL BE MAINTAINED IN A CLEAN CONDITION. IN THE EVENT OF HEAVY RAIN THEY SHALL BE REMOVED TO MINIMISE THE POTENTIAL FOR FLOODING.
4. CHECKS OF SILT CONTROL DEVICES ARE TO BE MADE WEEKLY, OR AFTER ANY SIGNIFICANT STORM EVENT TO ENSURE INTEGRITY AND PERFORMANCE.

CATCH DRAINS

1. CAT-DRAINS ARE TO BE PROVIDED PARALLEL TO THE CONTOUR AND AT MAXIMUM SPACINGS ANG DIMENSIONS SPECIFIED (REFER STANDARD DETAIL).
2. WITHIN AREAS OF ACTIVE EARTHWORKS THE CATCH-DRAINS ARE TO BE INSTALLED WITH SURFACE AMELIORATED WITH GYPSUM AT A RATE OF 5t/Ha AND STABILISED WITH VITAL BON-MATT STONEWALL OR EQUIVALENT (REFER STANDARD DETAIL)
3. CATCH DRAINS TO BE MAXIMUM LENGTH OF 50m BEFORE JOINING INTO A DRAIN WHICH RUNS PERPENDICULAR TO THE CONTOUR AND JOINS WITH A DIVERSION CHANNEL. THESE DRAINS ARE TO BE 0.2m BASE WIDTH, 1:4 SIDE SLOPES, 0.5m DEPTH AND HAVE A SURFACE AMELIORATED WITH GYPSUM AT A RATE OF 5T/Ha AND STABILISED WITH GEOFABRIC OR VITAL BON-MATT STONEWALL.

TURFING

1. PROVIDE TURFING TO ENTIRE WIDTH OF ALL SWALES, FOOTPATHS, AND ' IN 4 CUT AND FILL BATTERS.
2. FOOTPATH BATTERS ARE TO BE STABILISED WITH TOPSOIL (AND TURFED) AS SOON AS PRACTICAL AFTER THE BATTERS HAVE BEEN COMPLETED.

RE-VEGETATION:

1. THE AMOUNT OF AREA EXPOSED AT ANY ONETIME TO BE MINIMISED BY STAGING THE WORKS WHEREVER POSSIBLE AND AIMING TO ACHIEVE FINISHED LEVEL IN EACH AREA AS QUICKLY AS POSSIBLE BEFORE OPENING NEW AREAS.
2. TOPSOIL TO BE STRIPPED AND STOCKPILED SEPARATELY TO SUB-SOILS.
3. STOCKPILES TO BE PROVIDED WITH SURFACE COVER USING A CHEMICAL SURFACE STABILISER SUCH AS VITAL CHEMICALS VITAL-BON MATT STONEWALL.
4. IF WORKS ARE DELAYED OR PUT ON HOLD THEN TEMPORARY EROSION CONTROL COVERING TO BE PROVIDED USING VITAL CHEMICALS VITAL-BON MATT P47-VR1 OR EQUIVALENT.
5. ONCE AREAS REACH FINISHED LEVEL:

   I. TOPSOIL TO BE SPREAD TO CAP/BURY THE DISPERSIVE SUBSOILS

   II. TOPSOIL TO BE DRILL-SEEDED WITH A MIXTURE OF ANNUAL AND PERENNIAL GRASS SPECIES (REFER TABLE) AT SEEDING RATE OF 80kg/ha AND FERTILISER WITH CROP-KING 88 (0.3t/Ha)

   III. TEMPORARY SOIL COVER TO BE APPLIED CONSISTING OF VITAL CHEMICALS VITAL-BON MATT P47-VR1 OR EQUIVALENT.

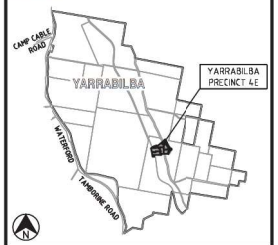
   IV. WATERING UNDERTAKEN AS NECESSARY UNTIL STABLE GRASS SURFACE COVER ESTABLISHED.

SEED MIXES

	SUMMER BLEND (APPLICATIONS NOVEMBER - DECEMBER)	MID SEASON BLEND (APPLICATIONS MARCH/APRIL & SEPTEMBER/OCTOBER)	WINTER BLEND (APPLICATIONS MAY AUGUST)
UNHULLED GREEN COUCH (CYNODON DACTYLON) OR BLUE COACH (DIGITARIA DIDACYLA)	25%	25%	25%
HULLED GREEN COUCH (CYNODON DACTYLON) OR BLUE COACH (DIGITARIA DIDACYLA)	25%	25%	25%
JAPANESE MILLET	30%	15%	N/A
RYE GRASS	N/A	15%	30%
CARPET GRASS (AXONOPUS AFFINIS)	20%	20%	20%

DO NOT SCALE THIS DRAWING
IF IN DOUBT - ASK!

SITE PLAN



REVISIONS

No	Description	Date	By
A	FOR APPROVAL	05.07.22	CE

Associated Consultants

rps

Client

lendlease

Project

YARRABILBA
PRECINCT 4E
BULK EARTHWORKS

kn group
ABN 35 112 53 611
L1, 62 Astor Tce
Spring Hill Q 4000
07 3017 1900
www.kngroup.com.au

Approved - RPEQ 12805

Robert William Mander
BEng(Civil), CPEng.
RPEQ:12805
2022.07.07 16:25:44 +10'00'

Drawing Title

EROSION AND SEDIMENT CONTROL - NOTES

Drawn	Designed	Checked	Date
SLK	JAS	RWM	JUL 22

Scale	Sheet
AS SHOWN	05 of 06

	Drawing No	Revision
A1	22-146-05	A

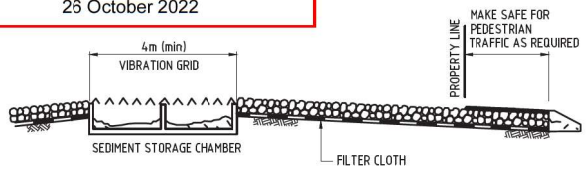
M:\2022\22146 Yarrabilba Precinct 4E BEW\Engineering\Excel\22-146-03-06-ESC-LAYOUT.dwg Plotted by CE on 6/07/2022 4:26:07 PM

PLANS AND DOCUMENTS
referred to in the PDA
DEVELOPMENT APPROVAL

Queensland Government

Approval no: DEV2022/1309

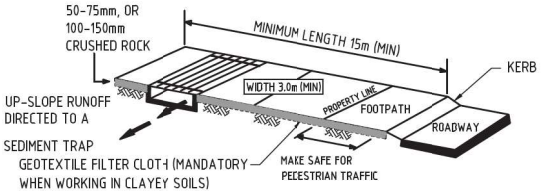
Date: 26 October 2022



TYPCAL PROFILE OF A VIBRATION GRID

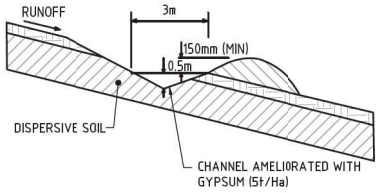
SITE ACCESS POINT SHAKEDOWN FACILITY

N.T.S.



SITE ACCESS POINT ENTRY/EXIT PAD

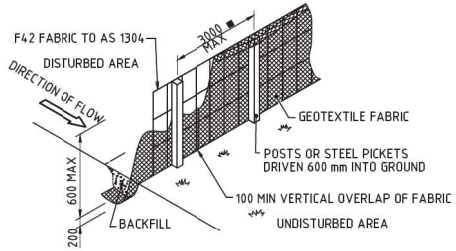
N.T.S.



CATCH DRAIN

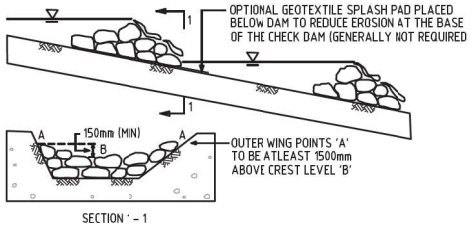
OPEN EARTH SLOPES						VEGETATED SLOPES		
SLOPE	HORIZ.	VERT.	SLOPE	HORIZ.	VERT.	SLOPE	HORIZ.	VERT.
1%	80m	0.9m	15%	19m	2.9m	<1%	NO MAXIMUM	
2%	60m	1.2m	20%	16m	3.2m	12%	100m	12m
4%	40m	1.6m	25%	14m	3.5m	15%	80m	12m
6%	32m	1.9m	30%	12m	3.5m	20%	55m	11m
8%	28m	2.2m	35%	10m	3.5m	25%	40m	10m
10%	25m	2.5m	40%	9m	3.5m	30%	30m	9m
12%	22m	2.6m	50%	6m	3.0m	>34%	CASE SPECIFIC	

CATCH DRAINS DIMENSIONS & SPACINGS



SEDIMENT FENCE

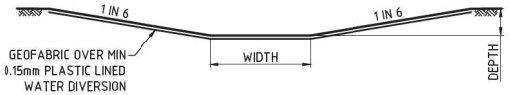
N.T.S.



SECTION ' – 1

CHECK DAM

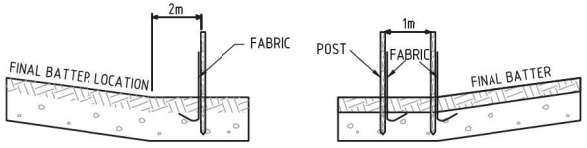
N.T.S.



TYPICAL LINED CATCH DRAIN

SCALE 1 : 40

SIZING TO BE DETERMINED DURING CONSTRUCTION



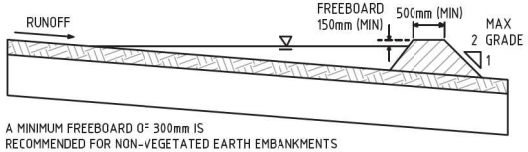
a) PLACEMENT OF SEDIMENT FENCE AT BASE OF FILL SLOPE

b) USE OF DOUBLE SEDIMENT FENCE AT THE BASE OF FILL SLOPE

SEDIMENT FENCE DETAILS

N.T.S.

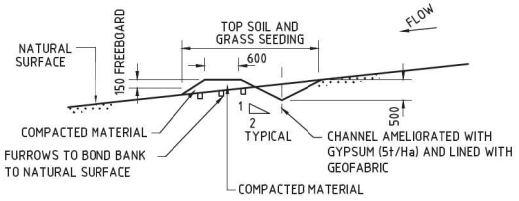
LOCATION OF SEDIMENT FENCE AT BASE OF FILL SLOPE



A MINIMUM FREEBOARD OF 300mm IS RECOMMENDED FOR NON-VEGETATED EARTH EMBANKMENTS

DIVERSION DRAINAGE BANK

N.T.S.



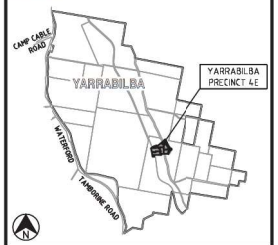
CROSS SECTION

DIVERSION CHANNEL

N.T.S.

DO NOT SCALE THIS DRAWING
IF IN DOUBT - ASK!

SITE PLAN



REVISIONS

No	Description	Date	By
A	FOR APPROVAL	05.07.22	CE

Associated Consultants

rps

Client

lendlease

Project

YARRABILBA

PRECINCT 4E
BULK EARTHWORKS

kn group

ABN 35 112 53 611
L1, 62 Astor Tce
Spring Hill Q 4000
07 3017 1900
www.kngroup.com.au

Approved - RPEQ 12805

Robert William Mander
BEng(Civil), CPEng,
RPEQ:12805
2022.07.07 16:25:53 +10'00'

Drawing Title

EROSION AND SEDIMENT CONTROL - DETAILS

Drawn	Designed	Checked	Date
SLK	JAS	RWM	JUL 22

Scale	Sheet
AS SHOWN	06of 06

Drawing No	Revision
22-146-06	A

A1

M:\2022\22146 Yarrabilba Precinct 4E BEW\Engineering\Excel\22-146-03-06-ES-LAYOUT.dwg Plotted by CE on 6/07/2022 4:26:07 PM