

SCHEDULE:

EXTERNAL FINISHES	
	1 PRECAST CONCRETE PANELS, NATURAL FINISH.
	2 COLORBOND METAL CLADDING, COLOUR: SURFMIST
	3 COLORBOND METAL CLADDING, COLOUR: WALLABY
	4 COLORBOND METAL CLADDING, COLOUR: SHALE GREY
	5 COLORBOND METAL CLADDING, COLOUR: NIGHTSKY
	6 COLORBOND METAL CLADDING, COLOUR: WINDSPRAY
	7 ROLLER SHUTTERS & LOUVRES, POWDERCOAT FINISH, COLOUR: SURFMIST
	8 HIGH PERFORMANCE GLAZING, COLOUR: GREY
	9 DOORS, DOOR & WINDOW FRAMES, PAINT & POWDERCOAT FINISH, COLOUR: GREY
	10 CANOPY METAL CLADDING, COLOUR: DARK GREY

FOR CONTINUATION REFER BELOW

NSW GOVERNMENT Planning

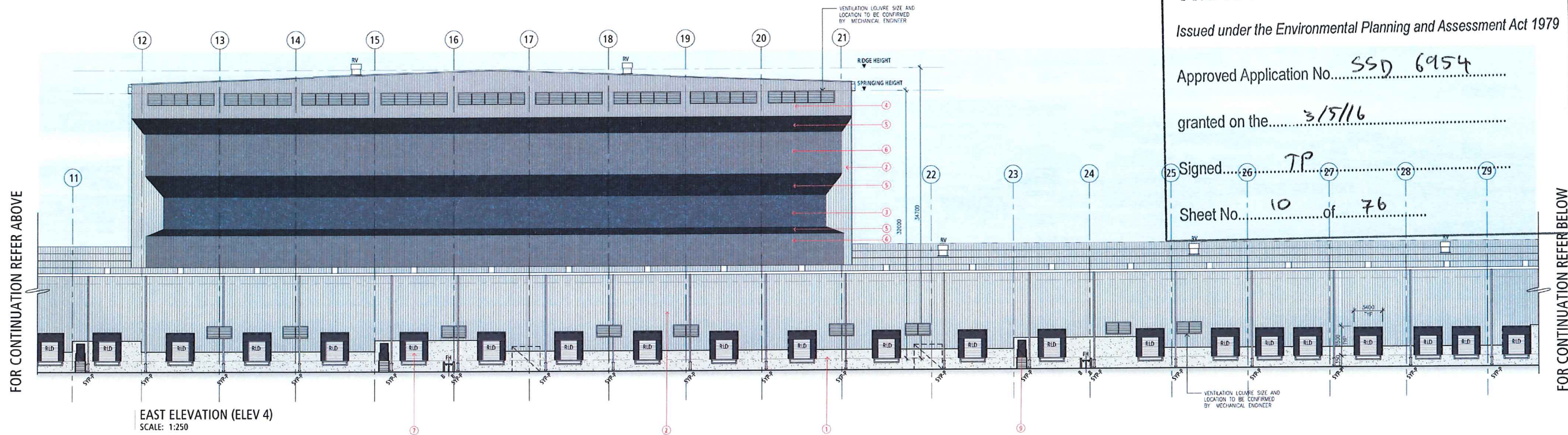
Issued under the Environmental Planning and Assessment Act 1979

Approved Application No. SSD 6954

granted on the 3/5/16

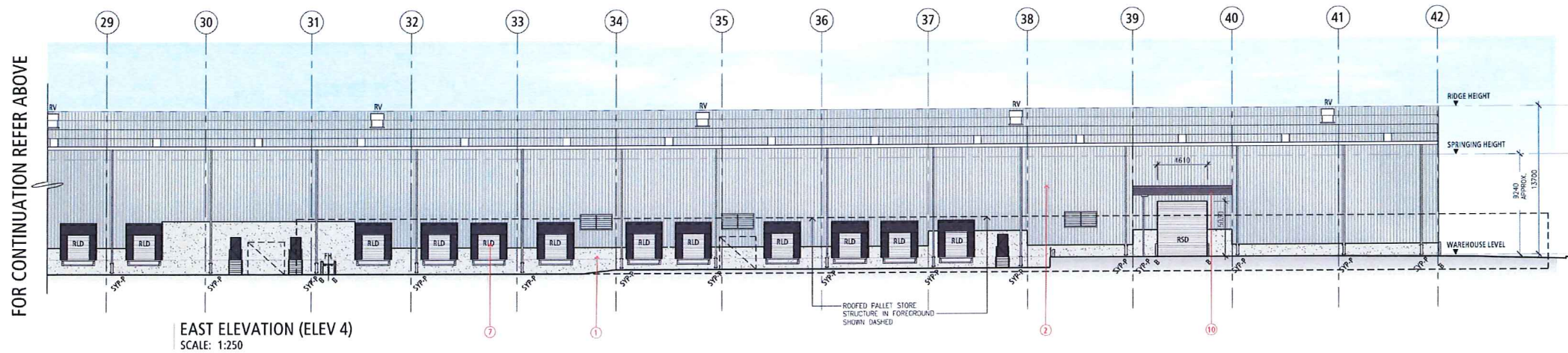
Signed TP

Sheet No. 10 of 76



FOR CONTINUATION REFER ABOVE

FOR CONTINUATION REFER BELOW



FOR CONTINUATION REFER ABOVE

LEGEND:

LEGEND SYMBOL	ELEVATION
	LOCATION OF GALVANISED MILD STEEL PROTECTIVE BOLLARD, CONCRETE FILLED WITH DOME TOP - REFER DETAIL
	INDICATES GALVANISED MILD STEEL DOWNPIPE PROTECTOR, FINISH AS SCHEDULED, REFER DETAIL
	RECESSED LOADING DOCK - TYPE 1 - TO MANUFACTURERS DETAILS, FINISH TO DOOR & GUIDES AS SPECIFIED, REFER DOOR SCHEDULE
	ROLLER SHUTTER DOOR - TYPE 1 - TO MANUFACTURERS DETAILS, FINISH TO DOOR & GUIDES AS SPECIFIED, REFER DOOR SCHEDULE
	SLIDING DOOR / WINDOW

NO.	DATE	REVISION	BY	CHK
A	07.05.2015	ISSUED FOR PLANNING PERMIT	GP	AY
B	29.06.2015	ISSUED FOR PLANNING PERMIT	DJK	AY
C	11.11.2015	ISSUED FOR PLANNING PERMIT	NN	AY
D	08.02.2016	ISSUED FOR PLANNING PERMIT	NN	AY

Watson Young Architects Pty Ltd, 8 Grantham Street, Prahran, Victoria 3181, Australia
ACN: 113387620 T: 03 9516 8555 E: info@watsonyoung.com.au www.watsonyoung.com.au
© Watson Young Architects. This drawing is protected by copyright.

PROJECT:
**IKEA WAREHOUSE PROPOSAL
MARSDEN PARK, SYDNEY, AUSTRALIA**

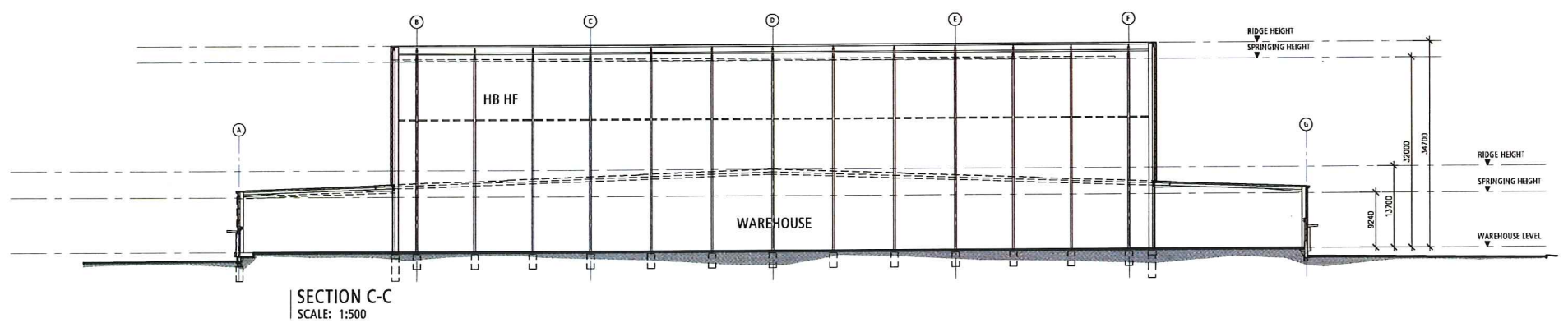
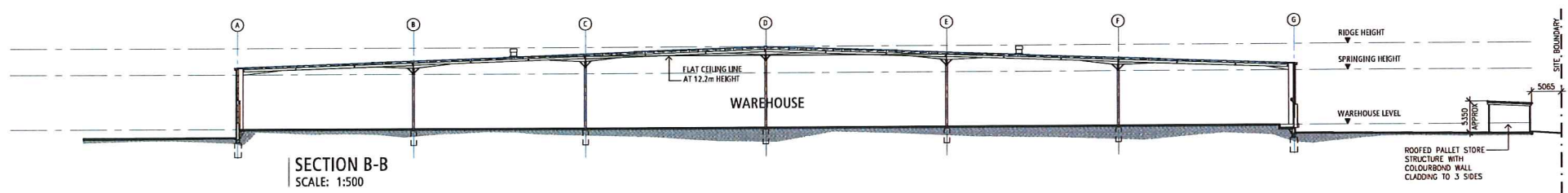
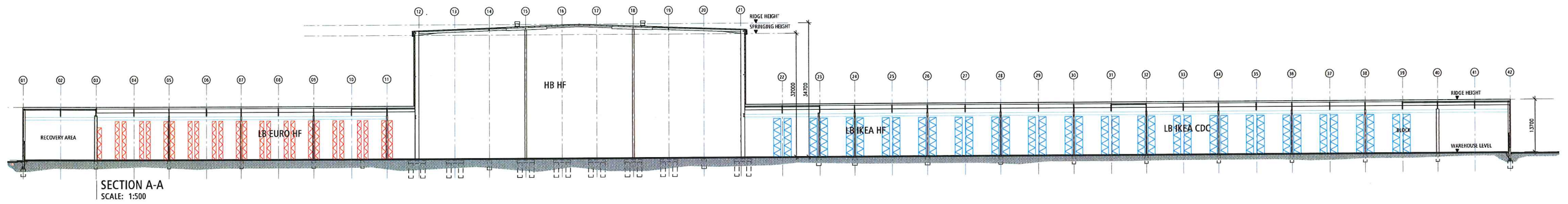
TITLE:
ELEVATIONS




DATE: DECEMBER, 2014
DRAWN BY: GP
SCALE: 1:250 @ A1
SCALE:

PROJ NO	14101
DRAWING NO	DA 08
REVISION	D






NSW GOVERNMENT
 Planning
 Issued under the Environmental Planning and Assessment Act 1979
 Approved Application No. SSD 6954
 granted on the 3/5/16
 Signed TP
 Sheet No. 11 of 76

NO.	DATE	REVISION	BY	CHK
A	07.05.2015	ISSUED FOR PLANNING PERMIT	GP	AY
B	29.06.2015	ISSUED FOR PLANNING PERMIT	DIK	AY
C	11.11.2015	ISSUED FOR PLANNING PERMIT	NN	AY

Watson Young Architects Pty Ltd 8 Grattan Street Prahran Victoria 3181 Australia
 ACN: 111393100 T: 03 9516 8155 info@watsonyoung.com.au www.watsonyoung.com.au
 © Watson Young Architects. This drawing is protected by copyright.

PROJECT:
IKEA WAREHOUSE PROPOSAL
MARSDEN PARK, SYDNEY, AUSTRALIA

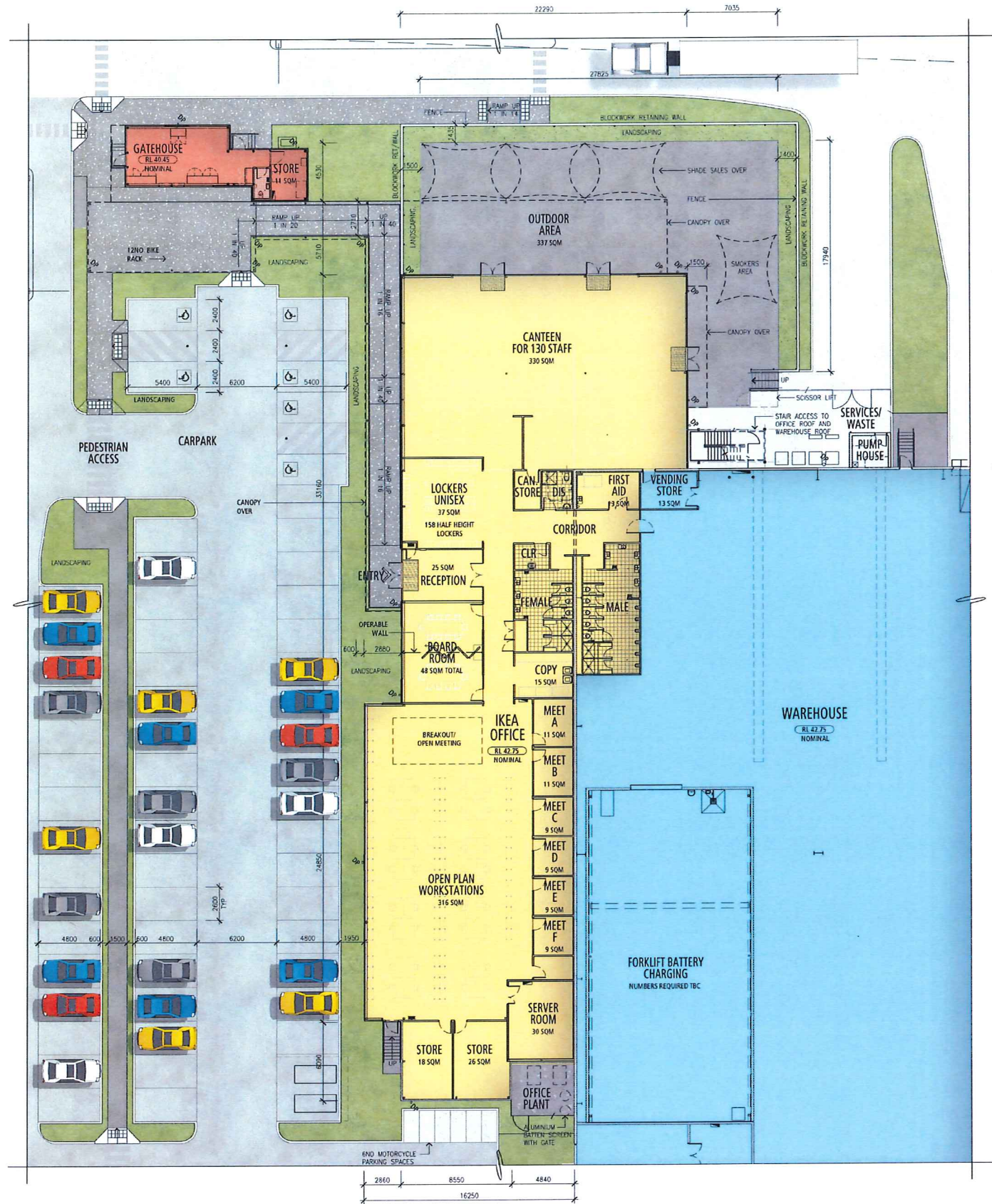
TITLE:
SECTIONS



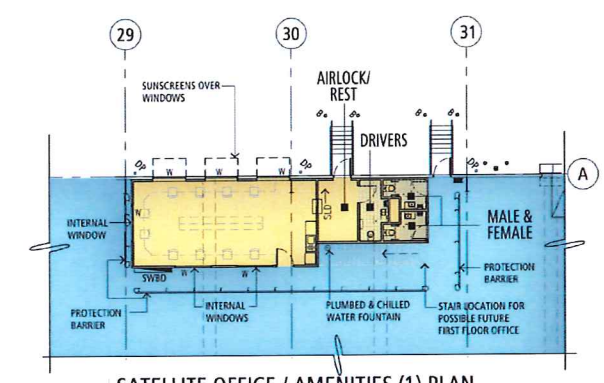
DATE: DECEMBER, 2014
 DRAWN BY: GP
 SCALE: 1:500 @ A1
 SCALE: 1:1000 @ A3

JOB NO: 14101
 DRAWING NO: DA 09
 REVISION: C






OFFICE & GATEHOUSE FLOOR PLAN
SCALE: 1:200



SATELLITE OFFICE / AMENITIES (1) PLAN
SCALE: 1:200
SATELLITE OFFICE / AMENITIES (2) MIRRORED

 **NSW GOVERNMENT**
Planning

Issued under the Environmental Planning and Assessment Act 1979

Approved Application No. SSD 6954.....

granted on the 3/5/16.....

Signed TP.....

Sheet No. 12 of 76.....

NO.	DATE	REVISION	BY	CHK
A	07.05.2015	ISSUED FOR PLANNING PERMIT	GP	AY
B	30.06.2015	ISSUED FOR PLANNING PERMIT	DK	AY
C	11.11.2015	ISSUED FOR PLANNING PERMIT	NN	AY

Watson Young Architects Pty Ltd 8 Gratian Street Prahran Victoria 3181 Australia
ACN: 111296700 131 5116 8025 info@watsonyoung.com.au www.watsonyoung.com.au
© Watson Young Architects. This drawing is protected by copyright.

PROJECT:
IKEA WAREHOUSE PROPOSAL
MARSDEN PARK, SYDNEY, AUSTRALIA

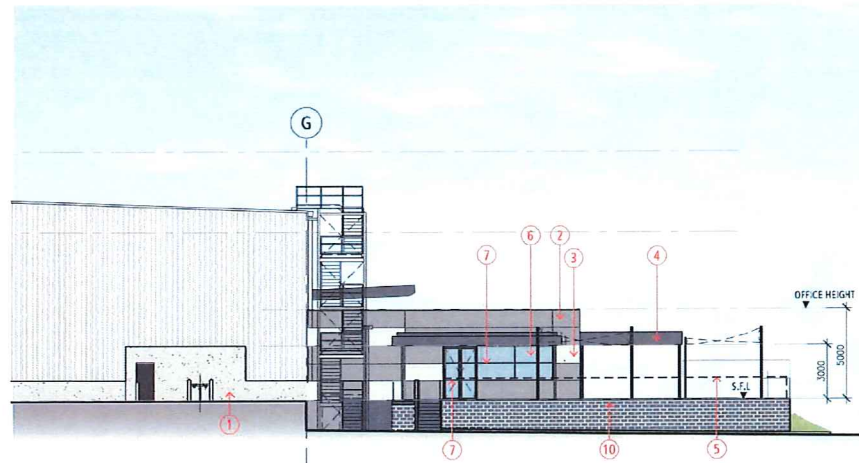
TITLE:
GATEHOUSE, SATELLITE & OFFICE FLOOR PLANS



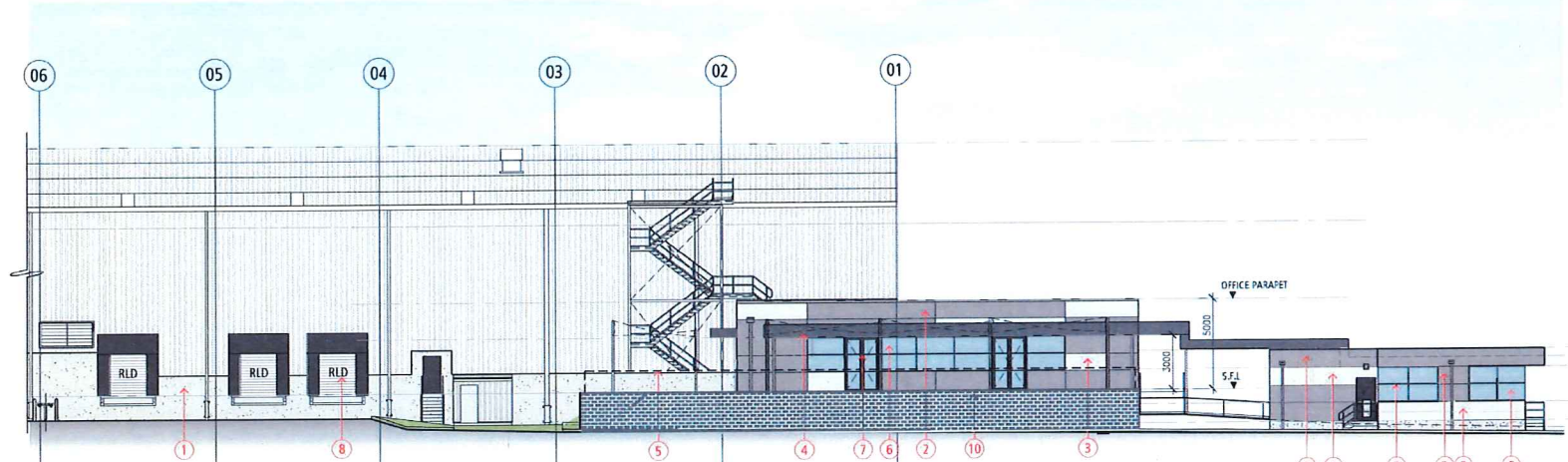
DATE: DECEMBER, 2014
DRAWN BY: GP
SCALE: 1:200 @ A1
SCALE: 1:400 @ A3

JOB NO:	14101
DRAWING NO:	DA 10
REVISION:	C





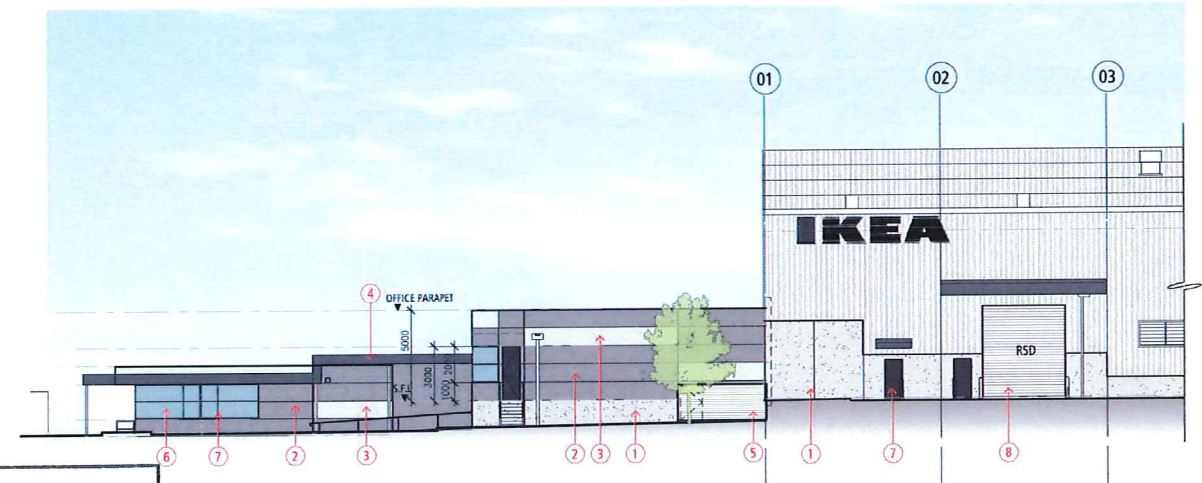
NORTH ELEVATION - OFFICE
SCALE: 1:200



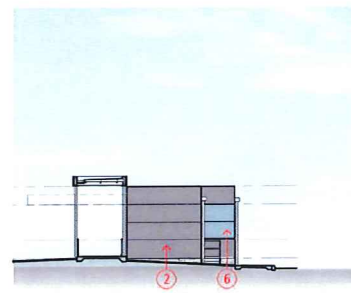
WEST ELEVATION - OFFICE AND GATEHOUSE
SCALE: 1:200



SOUTH ELEVATION - OFFICE AND GATEHOUSE
SCALE: 1:200



EAST ELEVATION - OFFICE AND GATEHOUSE
SCALE: 1:200



NORTH ELEVATION - GATEHOUSE
SCALE: 1:200

SCHEDULE: EXTERNAL FINISHES

	1 PRECAST CONCRETE PANELS NATURAL FINISH
	2 METAL CLADDING COLOUR: GREY
	3 METAL CLADDING COLOUR: LIGHT GREY
	4 CANOPY METAL CLADDING COLOUR: DARK GREY
	5 1.2M HIGH ARC FENCING COLOUR: LIGHT GREY
	6 HIGH PERFORMANCE GLAZING COLOUR: GREY
	7 DOORS, DOOR & WINDOW FRAMES PAINT & POWDERCOAT FINISH COLOUR: GREY
	8 ROLLER SHUTTERS & LOUVRES POWDERCOAT FINISH COLOUR: SURFMIST
	9 SUN SHADE LOUVRES POWDERCOAT FINISH COLOUR: GREY
	10 LOW HEIGHT RETAINING BLOCK WORK WALL COLOUR: CHARCOAL
	10.1 LOW HEIGHT RETAINING BLOCK WORK WALL COLOUR: MEDIUM GREY

NOTE: FOR WAREHOUSE EXTERNAL FINISHES REFER TO DA06 - DA08

NSW GOVERNMENT Planning

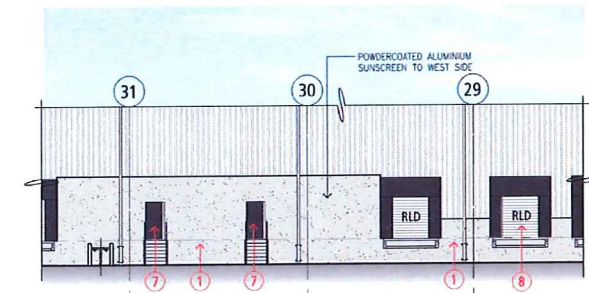
Issued under the Environmental Planning and Assessment Act 1979

Approved Application No. SSD 6954

granted on the 3/5/16

Signed TP

Sheet No. 13 of 76



SATELLITE OFFICE / AMENITIES (1) ELEVATION
SCALE: 1:200

NO.	DATE	REVISION	BY	CHK
A	07.05.2015	ISSUED FOR PLANNING PERMIT	GP	AY
B	30.06.2015	ISSUED FOR PLANNING PERMIT	DK	AY
C	11.11.2015	ISSUED FOR PLANNING PERMIT	NN	AY
D	08.02.2016	ISSUED FOR PLANNING PERMIT	NN	AY

Watson Young Architects Pty Ltd, 8 Grattan Street, Prahran, Victoria 3181, Australia
ACN: 111396700 T: 61 9516 8555 info@watsonyoung.com.au www.watsonyoung.com.au
© Watson Young Architects. This drawing is protected by copyright.

PROJECT: **IKEA WAREHOUSE PROPOSAL
MARSDEN PARK, SYDNEY, AUSTRALIA**

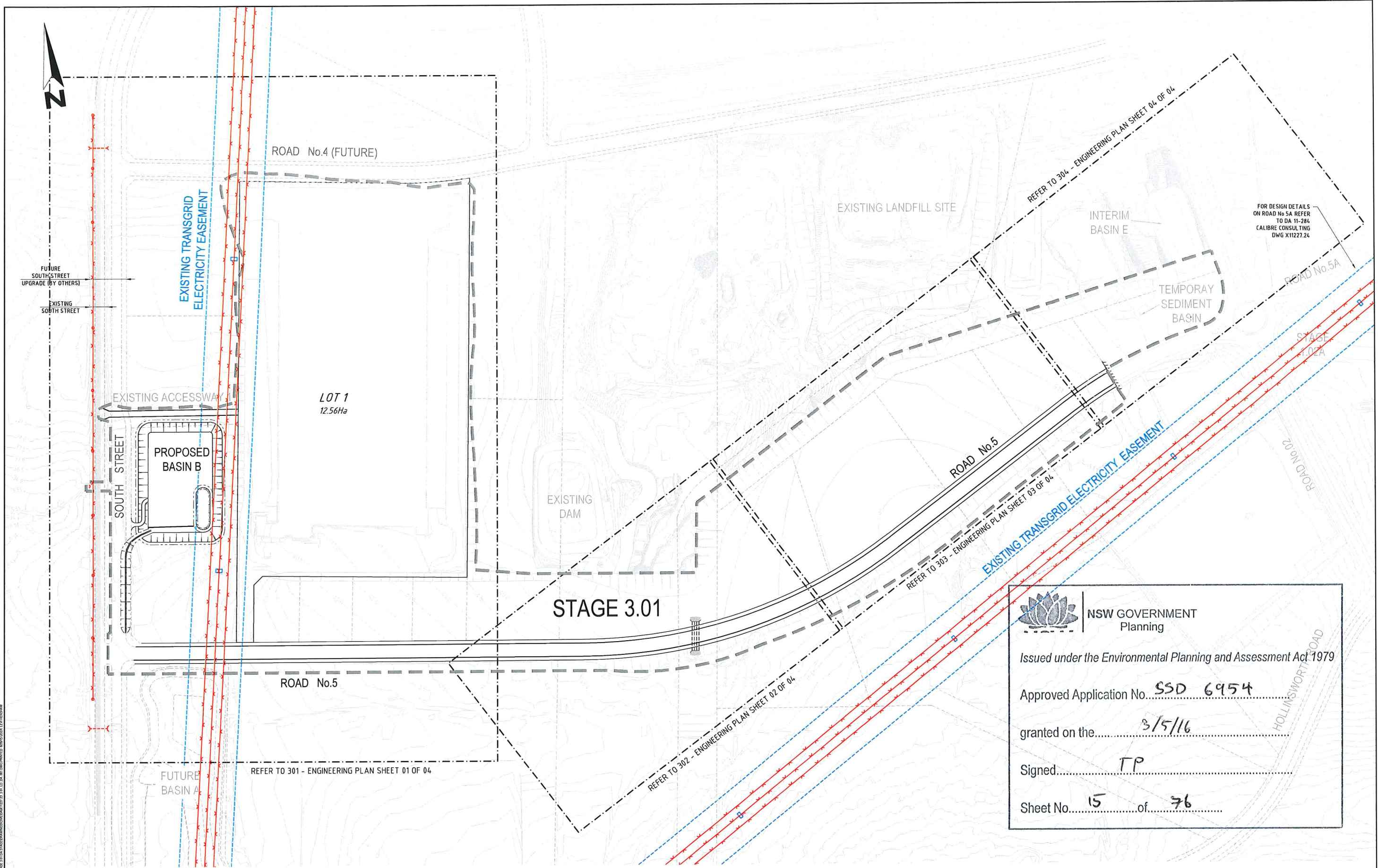
TITLE: **GATEHOUSE, SATELLITE &
OFFICES ELEVATIONS**




DATE: DECEMBER, 2014
DRAWN BY: GP
SCALE: 1:200 @ A1

JOB NO	14101
DRAWING NO	DA 11
REVISION	D






NSW GOVERNMENT
 Planning

Issued under the Environmental Planning and Assessment Act 1979

Approved Application No. SSD 6954

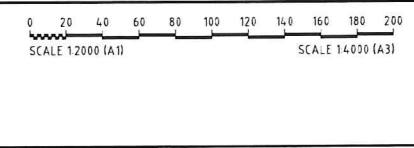
granted on the 3/5/16

Signed TP

Sheet No. 15 of 76


FOR DEVELOPMENT APPLICATION

Rev	Issue	Drawn	Design	Check	Appd	Date	Revision Details
1	LH	LF	MP			1/06/2015	ISSUED FOR CLIENT REVIEW
2	LH	LF	PD			1/06/2015	ISSUE FOR DEVELOPMENT APPLICATION
3	LH	MP	PD			23/06/2015	ISSUE TO SUIT COUNCIL COMMENTS
	LH	MP					



Disclaimer and Copyright:
 ALL DIMENSIONS TO BE CHECKED ON SITE BY CONTRACTOR PRIOR TO CONSTRUCTION. USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE.
 NOT FOR CONSTRUCTION UNLESS STAMPED BY CERTIFYING AUTHORITY

 © Calibre Consulting Pty Ltd

Authorised for Issue:
 BY: **STUART GREEN**
 FIEAustL, CPEng, Manager - Urban Development
 SIGN: 
 DATE: 23/6/15

Client:
MARSDEN PARK DEVELOPMENT
 Project:
MARSDEN PARK INDUSTRIAL STAGE 3.01 ROAD & DRAINAGE DESIGN


 © 2015 www.brownconsulting.com.au

Drawing Title:				
GENERAL LAYOUT PLAN				
Project No.:	Stage:	Milestone:	Dwg No.:	Revision:
X11227.23	3.01	DA	001	3

GENERAL NOTES

GENERAL

- G1 ALL WORK TO BE CARRIED OUT IN ACCORDANCE WITH BLACKTOWN CITY COUNCIL'S ENGINEERING DESIGN, ENGINEERING CONSTRUCTION SPECIFICATION AND TO THE REQUIREMENTS OF THE PRINCIPAL CERTIFYING AUTHORITY/ ROADS AUTHORITY.
- G2 INSPECTIONS BY PRINCIPAL CERTIFYING AUTHORITY SHALL BE REQUESTED AT THE FOLLOWING STAGES AND THE WORKS APPROVED PRIOR TO THE CONTINUANCE OF ANY WORK:
 - (a) FOLLOWING THE INSTALLATION OF EROSION AND SEDIMENT CONTROL STRUCTURES/MEASURES
 - (b) PRIOR TO BACKFILLING PIPELINES, SUBSOIL DRAINS AND DAMS.
 - (c) PRIOR TO CASTING OF PITS AND OTHER CONCRETE STRUCTURES, INCLUDING KERB AND GUTTER BUT FOLLOWING THE PLACEMENT OF FOOTINGS, FORMWORK AND REINFORCEMENT.
 - (d) PRIOR TO PLACEMENT OF SUBBASE AND ALL SUBSEQUENT PAVEMENT LAYERS, A PROOF ROLLER TEST OF EACH PAVEMENT LAYER IS REQUIRED.
 - (e) FORMWORKS PRIOR TO POURING CONCRETE IN PARKING AREAS FOR FOOTPATH CROSSING AND OTHER ASSOCIATED WORK.
 - (f) PRIOR TO BACKFILLING PUBLIC UTILITY CROSSINGS IN ROAD RESERVES.
 - (g) FINAL INSPECTIONS AFTER ALL WORKS ARE COMPLETED AND "WORK AS EXECUTED" PLANS HAVE BEEN SUBMITTED TO COUNCIL.
- G3 MAKE SMOOTH JUNCTIONS WITH EXISTING WORKS
- G4 NO WORK TO BE CARRIED OUT ON ADJOINING PROPERTIES WITHOUT THE WRITTEN PERMISSION FROM THE OWNER.
- G5 VEHICULAR ACCESS AND ALL UTILITIES/SERVICES ARE TO BE MAINTAINED AT ALL TIMES TO ADJOINING PROPERTIES AFFECTED BY CONSTRUCTION.
- G6 ALL RUBBISH, BUILDINGS, SHEDS, AND FENCES ARE TO BE REMOVED TO THE SATISFACTION OF THE PRINCIPAL CERTIFYING AUTHORITY/ ROADS AUTHORITY.

EARTHWORKS

- E1 EARTHWORKS ARE TO BE CARRIED OUT TO THE SATISFACTION OF THE PRINCIPAL CERTIFYING AUTHORITY. UNSUITABLE MATERIALS ARE TO BE REMOVED FROM ROADS AND LOTS PRIOR TO FILLING. THE CONTRACTOR IS TO ARRANGE, WITH THE SUPERINTENDENT, COMPACTION TESTING FOR ALL AREAS THAT CONTAIN FILL IN EXCESS OF 200mm.
- E2 COMPACTION OF EARTHWORKS SHALL CONTINUE UNTIL A DRY DENSITY RATIO OF 98% FOR SITE FILLING AND 100% FOR ROAD PAVEMENT SUBGRADES HAS BEEN ACHIEVED IN ACCORDANCE WITH TEST METHOD AS1289.5.3.1 OR AS 1289.5.1.1.
- E3 THE CONTROL TESTING OF EARTHWORKS SHALL BE IN ACCORDANCE WITH THE GUIDELINES IN AS3798 "GUIDELINES ON EARTHWORKS FOR COMMERCIAL AND RESIDENTIAL DEVELOPMENTS". WHERE IT IS PROPOSED TO USE TEST METHOD AS1298.5.8.2 TO DETERMINE THE FIELD DENSITY, A SAND REPLACEMENT METHOD SHALL BE USED TO CONFIRM THE RESULTS.
- E4 THE SUBDIVISIONAL GEOTECH ACCREDITED CERTIFIER, SHALL HAVE RESPONSIBILITY FOR ALL FILLING AS DEFINED IN APPENDIX B AS3798 "GUIDELINES ON EARTHWORKS FOR COMMERCIAL AND RESIDENTIAL DEVELOPMENTS" AND AT THE END OF THE WORKS SHALL CONFIRM THE EARTHWORKS COMPLY WITH THE REQUIREMENTS OF THE SPECIFICATION AND DRAWINGS BY WRITTEN NOTIFICATION.
- E5 IN AREAS TO BE FILLED WHERE THE SLOPE OF THE NATURAL SURFACE EXCEEDS 1V:4(H), BENCHES ARE TO BE CUT TO PREVENT SLIPPING OF THE PLACED FILL MATERIAL AS REQUIRED BY THE COUNCIL.
- E6 ALL BATTERS ARE TO BE SCARIFIED TO A DEPTH OF 50mm TO ASSIST THE ADHESION OF TOP SOIL TO BATTER FACE.
- E7 PROVIDE MINIMUM 150mm AND MAXIMUM 300mm TOPSOIL WITHIN FOOTPATHS, FILLED AREAS AND ALL OTHER AREAS DISTURBED DURING CONSTRUCTION. TOPSOILED AREAS TO BE STABILISED WITH APPROVED VEGETATION A MAXIMUM OF 2 DAYS AFTER TOPSOILING AND ARE TO BE WATERED TO ENSURE GERMINATION.
- E8 THE CONTRACTOR SHALL CONTROL SEDIMENTATION, EROSION AND POLLUTION DURING CONSTRUCTION IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT EDITION OF "MANAGING URBAN STORMWATER: SOILS AND CONSTRUCTION" PROVIDED BY LANDCORN.
- E9 A CONTINUOUS STRIP OF COUGH GRASS SHALL BE PLACED BEHIND THE BACK OF ALL KERBS AND OTHER CONCRETE STRUCTURES IMMEDIATELY AFTER THE COMPLETION OF THE FOOTPATH GRADING OR OTHER ELEMENTS AS APPLICABLE, MAINTAINED AND REPLACED AS A REQUIREMENT DURING THE CONSTRUCTION MAINTENANCE PERIOD.
- E10 REFER TO SALINITY INVESTIGATION AND MANAGEMENT PLAN PREPARED BY DOUGLAS PARTNER DATED: JUNE 2015 FOR SALINITY CONTROL MEASURES.

ROADWORKS

- R1 SUBGRADES AND SUBBASES ARE TO BE COMPACTED IN ACCORDANCE WITH COUNCIL'S CONSTRUCTION SPECIFICATION.
- R2 SUBSOIL DRAINS TO BE PROVIDED ON BOTH SIDES OF ROADS (EXCEPT WHERE THERE IS STORMWATER DRAINAGE)
- R3 LIPLESS PERAMBULATOR CROSSINGS ARE TO BE PROVIDED IN ALL KERB RETURNS WHERE REQUIRED BY COUNCIL.
- R4 SERVICE CONDUITS TO BE PLACED AS DIRECTED BY ALL PUBLIC UTILITY AUTHORITIES INCLUDING ENDEAVOUR ENERGY, TELSTRA, SYDNEY WATER AND JEMENA.
- R5 PROPOSED UTILITIES AND SERVICES CROSSING EXISTING ROADS SHALL BE PROVIDED FOR USING A TRENCHLESS TECHNIQUE SO AS TO NOT DAMAGE THE EXISTING SURFACE. ALL SERVICE CONDUITS UNDER ROADS MUST BE LAID TO A MINIMUM DEPTH OF 750mm.
- R6 CONCRETE FOOTPATH CONSTRUCTION IS TO BE BONDED WITH COUNCIL PENDING COMPLETION OF UTILITY/SERVICES AND SURROUNDING DWELLINGS.
- R7 ALL PERMANENT ROADS MUST BE SEALED WITH 50mm OF AC TO BE APPLIED IN TWO 25mm THICK LAYERS. THE FINAL AC IS TO BE BONDED WITH COUNCIL AND PLACED FOLLOWING APPROVAL FROM COUNCIL.
- R8 SIGNPOSTING AND LINE MARKING SHALL CONFORM TO AS 1742.2 'TRAFFIC CONTROL DEVICES FOR GENERAL USE', RAISED RETRO-REFLECTIVE PAVEMENT MARKERS TO CONFORM TO AS1906 'RETRO-REFLECTIVE DEVICES AND MATERIALS FOR ROAD TRAFFIC CONTROL PURPOSES'. ALL APRONS AND KERB FACE ON CENTRAL ISLANDS OF ROUNDABOUTS AND ALL OTHER ISLANDS TO BE DELINEATED BY REFLECTIVE WHITE MARKING.
- R9 ALL LOT NUMBERS AND STREET NAMES TO BE STENCILED ON KERB FACE.
- R10 STREET SIGNS TO COUNCIL STANDARD MUST BE INSTALLED BY THE OWNER/APPLICANT/SUPERINTENDENT, STREET NAMES MUST BE STENCILED ON KERB AT INTERSECTIONS.
- R11 ALL LIGHT POLES, STREET NAME POLES AND BUS SHELTERS IN THE SUBDIVISION WILL BE BLACK POWDER COATED TO THE SATISFACTION OF BLACKTOWN CITY COUNCIL.

DRAINAGE

- D1 ALL PIPES TO BE SPIGOT AND SOCKET, RUBBER RING JOINTED & CLASS 2. UNLESS OTHERWISE NOTED.
- D2 ALL LONGITUDINAL PIPELINES IN ROADS MUST BE LOCATED UNDER KERB AND GUTTER AND BACKFILLED WITH APPROVED GRANULAR MATERIAL UNLESS OTHERWISE APPROVED BY THE COUNCIL ENGINEER.
- D3 DRAINAGE LINES MUST BE BACKFILLED WITH APPROVED GRANULAR MATERIAL IN TRAFFICABLE AREAS. THREE (3) METRES OF SUBSOIL DRAINAGE WRAPPED IN GEOTEXTILE STOCKING MUST BE PROVIDED AT ALL DOWNSTREAM PITS.
- D4 ALL GULLY PITS TO COUNCIL'S STANDARD AND LINTELS CENTRALLY PLACED AT SAG PITS. ALL KERB INLET PITS TO BE CAST-IN-SITU.
- D5 ALL PITS MUST BE BENCHED AND STREAMLINED. PROVIDE SL72 REINFORCEMENT AND GALVANISED STEP IRONS IN ALL PITS OVER 1.2 METRES DEEP AS MEASURED FROM THE TOP OF GRATE TO THE INVERT OF THE PIT.
- D6 CONCRETE IS TO HAVE A MINIMUM COMPRESSIVE STRENGTH OF 32MPa AT 28-DAYS UNLESS OTHERWISE APPROVED BY THE COUNCIL ENGINEER.
- D7 CATCH DRAINS MUST BE CONSTRUCTED AS REQUIRED BY PRINCIPAL CERTIFYING AUTHORITY/ ROADS AUTHORITY.
- D8 ALL INTERALLOTMENT DRAINAGE LINES MUST HAVE A MINIMUM PIPE DIAMETER OF 150mm AND A MINIMUM GRADE OF 1% UNLESS OTHERWISE APPROVED BY THE PRINCIPAL CERTIFYING AUTHORITY/ ROADS AUTHORITY.
- D9 ALL INTERALLOTMENT DRAINAGE LINES ARE TO BE LAID CENTRALLY WITHIN DRAINAGE EASEMENTS. INSPECTION PITS ARE TO BE PROVIDED AT ALL CHANGES OF GRADE AND DIRECTION.
- D10 INTERALLOTMENT DRAINAGE LINES MUST BE INSTALLED AFTER SYDNEY WATER SEWERAGE LINES HAVE BEEN INSTALLED WHERE SEWER IS PROPOSED ADJACENT TO INTERALLOTMENT DRAINAGE LINES.
- D11 1% AEP OVERLAND FLOW PATHS MUST BE FORMED AND SHOWN ON 'WORK AS EXECUTED' DRAWINGS
- D12 ADEQUATE PROVISION IS TO BE MADE TO PREVENT SCOURING AND SEDIMENTATION FOR ALL DRAINAGE WORKS IN ACCORDANCE WITH COUNCIL'S REQUIREMENTS.

LEGEND

DESCRIPTION	PROPOSED	EXISTING	FUTURE
STORMWATER PIPELINE			
STORMWATER DRAINAGE PITS			
DRAINAGE LINE No. 3 DRAINAGE PIT No. 10			
CONCRETE HEADWALL			
SUBSOIL DRAIN			
STANDARD 150mm KERB AND GUTTER			
STANDARD ROLL KERB AND GUTTER			
STANDARD KERB ONLY			
STANDARD EDGE STRIP			
STANDARD MOUNTABLE KERB			
STANDARD DISH CROSSING			
VEHICULAR CROSSING			
PERAMBULATOR RAMP			
EDGE OF BITUMEN			
ROAD PAVEMENT			
BENCHMARK			
BATTERS			
CONCRETE PATHWAY			
CONTOURS			
SITE REGRADING AREA			
SERVICE LINES SEWER, GAS, WATER, ELECTRICITY			
COMMUNICATION LINES TELSTRA, OPTUS FIBER			
OVER HEAD LINES AND POLES			
SERVICE PITS TELECOM PIT, ACCESS CHAMBER, HYDRANT, STOP VALVE, AIR VALVE			
LIMIT OF CONSTRUCTION			
LIMIT OF STAGE			
FENCE POST AND RAIL FENCE SECURITY FENCE			
LOT NUMBERS			
TREES TO REMOVE			
TREES			
RETAINING WALL			
ROCK WALL			

NSW GOVERNMENT
Planning

Issued under the Environmental Planning and Assessment Act 1979

Approved Application No. **SSD 6954**

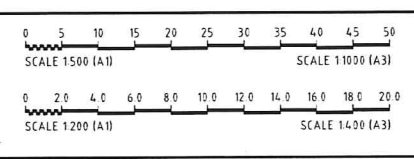
granted on the **3/5/16**

Signed: **TP**

Sheet No. **16** of **76**

FOR DEVELOPMENT APPLICATION

Revision	Drawn	Design	Check	Appd.	Date	Revision Details
1	LH	LF	MP		1/06/2015	ISSUED FOR CLIENT REVIEW
2	LH	LF	PD		1/06/2015	ISSUE FOR DEVELOPMENT APPLICATION
3	LH	MP	PD		23/06/2015	ISSUE TO SUIT COUNCIL COMMENTS



Disclaimer and Copyright
ALL DIMENSIONS TO BE CHECKED ON SITE BY CONTRACTOR PRIOR TO CONSTRUCTION. USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE.

NOT FOR CONSTRUCTION UNLESS STAMPED BY CERTIFYING AUTHORITY

CONSULT AUSTRALIA

Authorised for Issue:
BY: **STUART GREEN**
FIEAust. CP/Eng. Manager - Urban Development

SIGN:

DATE: **23/6/15**

Client: **MARSDEN PARK DEVELOPMENT**

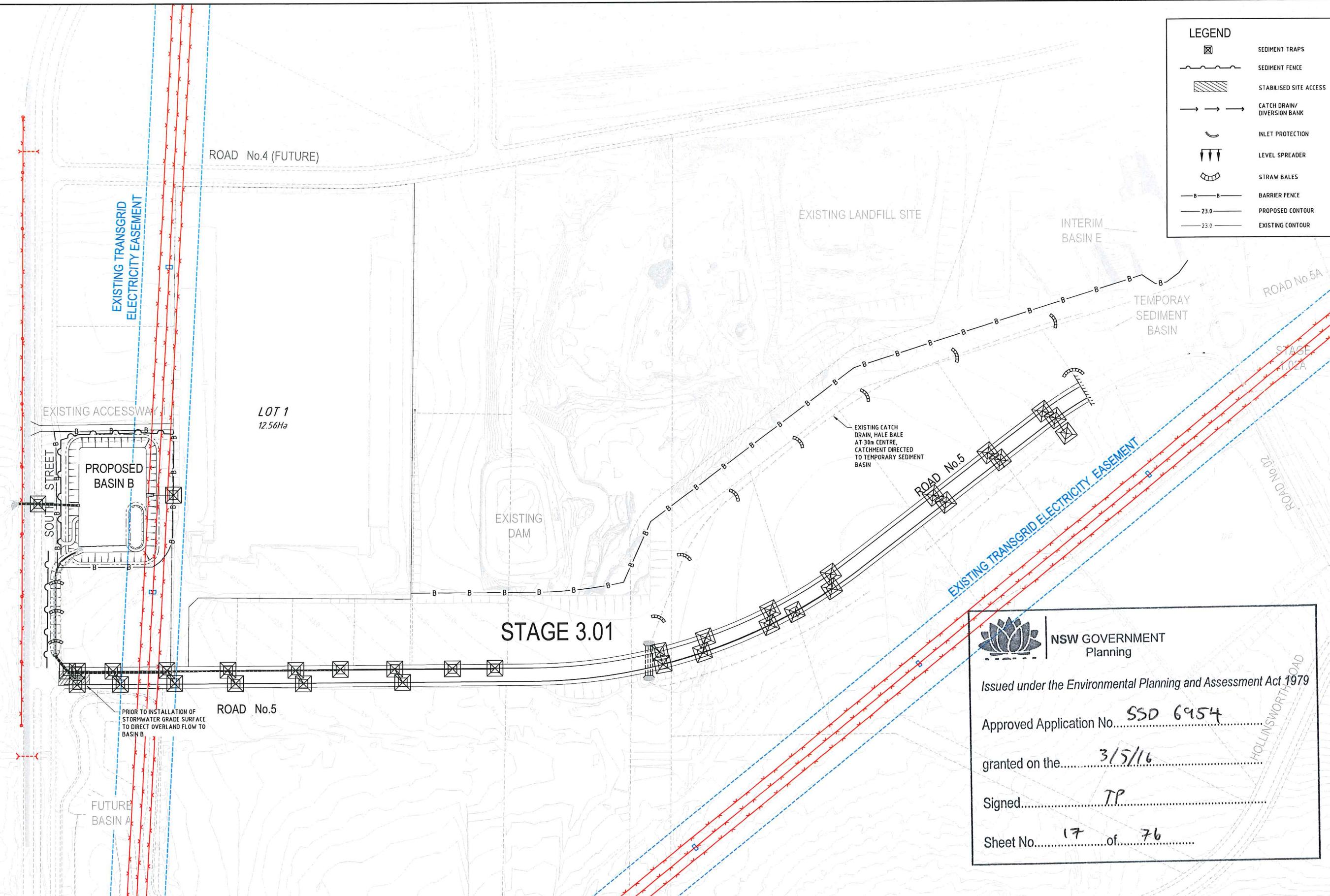
Project: **MARSDEN PARK INDUSTRIAL STAGE 3.01 ROAD & DRAINAGE DESIGN**



Drawing Title: STANDARD NOTES & LEGEND				
Project No.	Stage	Milestone	Dwg No.	Revision
X11227.23	3.01	DA	002	3



LEGEND	
	SEDIMENT TRAPS
	SEDIMENT FENCE
	STABILISED SITE ACCESS
	CATCH DRAIN/ DIVERSION BANK
	INLET PROTECTION
	LEVEL SPREADER
	STRAW BALES
	BARRIER FENCE
	PROPOSED CONTOUR
	EXISTING CONTOUR



NSW GOVERNMENT
Planning

Issued under the Environmental Planning and Assessment Act 1979

Approved Application No. **SSD 6954**

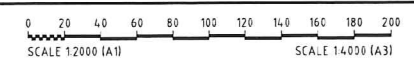
granted on the **3/5/16**

Signed **TP**

Sheet No. **17** of **76**

FOR DEVELOPMENT APPLICATION

Rev	Issue	Drawn	Design	Check	Appd	Date	Revision Details
1	LH	LF	MP			11/06/2015	ISSUED FOR CLIENT REVIEW
2	LH	LF	PD			11/06/2015	ISSUE FOR DEVELOPMENT APPLICATION
3	LH	MP	PD			23/06/2015	ISSUE TO SUIT COUNCIL COMMENTS



Disclaimer and Copyright:
ALL DIMENSIONS TO BE CHECKED ON SITE BY CONTRACTOR PRIOR TO CONSTRUCTION. USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE.

NOT FOR CONSTRUCTION UNLESS STAMPED BY CERTIFYING AUTHORITY

© Calibre Consulting Pty Ltd

Authorised for Issue:
BY: **STUART GREEN**
FIEAust. CP.Eng. Manager - Urban Development

SIGN:

DATE: **23/6/15**

Client: **MARSDEN PARK DEVELOPMENT**

Project: **MARSDEN PARK INDUSTRIAL STAGE 3.01 ROAD & DRAINAGE DESIGN**



Drawing Title: SEDIMENT & EROSION CONTROL PLAN				
Project No.: X11227.23	Stage: 3.01	Milestone: DA	Dwg No.: 101	Revision: 3

SEDIMENT & EROSION CONTROL NOTES

- THE CONTRACTOR SHALL IMPLEMENT ALL SOIL EROSION AND SEDIMENT CONTROL MEASURES PRIOR TO THE COMMENCEMENT OF ANY WORKS BEING CARRIED OUT. ALL SOIL AND EROSION MEASURES SHALL BE MAINTAINED AND KEPT IN PLACE FOR THE FULL DURATION OF THE WORKS AND SHALL ONLY BE REMOVED AT FINAL STABILISATION OF THE WORKS. WHERE IT IS NECESSARY TO UNDERTAKE STRIPPING IN ORDER TO CONSTRUCT A SEDIMENT CONTROL DEVICE ONLY SUFFICIENT GROUND SHALL BE STRIPPED TO ALLOW CONSTRUCTION.
- ALL SOIL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE CONSTRUCTED AND MAINTAINED AS INDICATED ON THESE DRAWINGS. LOCATION AND EXTENT OF SOIL AND WATER MANAGEMENT DEVICES IS DIAGRAMMATIC ONLY AND THE ACTUAL REQUIREMENTS SHALL BE CONFIRMED ON SITE PRIOR TO COMMENCEMENT.
- CONFORMITY WITH THIS PLAN SHALL IN NO WAY REDUCE THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT AGAINST WATER DAMAGE DURING THE COURSE OF THE CONTRACT. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO ENSURE THAT ANY NECESSARY CONTROL IS IN PLACE EVEN THOUGH SUCH CONTROL MAY NOT BE SHOWN ON THE PLAN.
- THE CONTRACTOR SHALL INFORM ALL SUBCONTRACTORS AND ALL EMPLOYEES OF THEIR RESPONSIBILITIES IN MINIMISING THE POTENTIAL FOR SOIL EROSION AND POLLUTION TO DOWNSTREAM AREAS.
- APART FROM SEDIMENT BASINS, THE CONTRACTOR SHALL REGULARLY MAINTAIN SEDIMENT AND EROSION CONTROL STRUCTURES AND DESILT SUCH STRUCTURES PRIOR TO THE REDUCTION IN CAPACITY OF 30% DUE TO ACCUMULATED SEDIMENT. THE SEDIMENT SHALL BE DISPOSED OF ON SITE IN A MANNER APPROVED BY THE ENGINEER.
- THE CONTRACTOR SHALL TEMPORARILY REHABILITATE WITHIN TEN (10) DAYS ANY DISTURBED AREAS PROVIDING A MINIMUM 60% COVER. FINAL REHABILITATION IS TO BE PROVIDED WITHIN A FURTHER 60 DAYS WITH A MINIMUM 70% COVER.
- THE CONTRACTOR SHALL PROVIDE WATERING OF THE VEGETATED BATTERS FOR MAINTENANCE PERIOD. PLANT, MACHINERY AND VEHICLES SHALL NOT BE DRIVEN OVER GRASSED AREAS UNLESS ON AN APPROVED HAULAGE ROUTE.
- ALL DRAINAGE WORKS SHALL BE CONSTRUCTED AND STABILISED AS QUICKLY AS POSSIBLE TO MINIMISE RISK OF EROSION.
- SITE ACCESS SHALL BE RESTRICTED TO THE NOMINATED POINTS. THE CONTRACTOR SHALL PROVIDE STABILISED SITE ACCESS.
- DUST AND SITE DISTURBANCE MUST BE KEPT TO A MINIMUM DURING WINDY WEATHER. LARGE, UNPROTECTED AREAS MUST BE KEPT MOIST (NOT WET) BY SPRINKLING WITH WATER TO REDUCE WIND EROSION. ERECT BARRIER FENCING TO MINIMISE LAND DISTURBANCE BY PREVENTING VEHICULAR AND PEDESTRIAN ACCESS TO AREAS BEING REHABILITATED AND LANDS THAT DO NOT NEED TO BE DISTURBED BY THIS PROJECT.
- STOCKPILE TOPSOILS, SUBSOILS AND OTHER MATERIALS SEPARATELY.
- TOPSOIL SHALL BE STORED IN LOW MOUNDS NO MORE THAN 2 METRES HIGH AND RE-USED WITHIN TWO MONTHS TO MAINTAIN ACTIVE POPULATIONS OF BENEFICIAL SOIL MICROBES AND SEED.
- PLACE ALL STOCKPILES AT LEAST FIVE METRES FROM AREAS OF LIKELY CONCENTRATED OR HIGH VELOCITY FLOWS, ESPECIALLY EARTH BANKS AND ROADS. IF NECESSARY, EARTH BANKS OR DRAINS WILL BE CONSTRUCTED TO DIVERT LOCALISED RUN-ON.
- TURN TOPSOIL STOCKPILES OVER TO AERATE THEM AT MONTHLY INTERVALS. ENSURE VEGETATION IS NOT INCORPORATED INTO THE SOIL.
- AVOID REVERSING THE SOIL PROFILE MATERIALS DURING FILL OPERATIONS - REPLACE DISTURBED SOILS IN THEIR ORIGINAL ORDER.
- ON COMPLETION OF MAJOR EARTHWORKS AND BEFORE ADDING TOPSOIL, LEAVE DISTURBED LANDS WITH A LOOSE SURFACE. ALTERNATELY, DISTURBED AREAS PREVIOUSLY COMPACTED BY CONSTRUCTION WORKS WILL BE RIPPED TO MORE THAN 200-MM ALONG THE CONTOUR BEFORE APPLYING TOPSOIL.
- PROVIDING MATERIALS ARE AVAILABLE, SPREAD TOPSOIL TO A MINIMUM DEPTH OF 75mm IN REVEGETATION AREAS ON SLOPES OF 4(H):1(V) OR LESS AND TO A DEPTH OF 40 TO 60mm IN REVEGETATION AREAS STEEPER THAN 4:1.
- LEAVE TOPSOIL IN A SCARIFIED OR ROUGH CONDITION ONCE REPLACED TO HELP MOISTURE INFILTRATION AND REDUCE SOIL EROSION.
- ENSURE SOIL IS THOROUGHLY SOAKED TO A DEPTH OF 75mm (RAIN OR IRRIGATION) IMMEDIATELY BEFORE PLANTING.
- HANDLE TOPSOIL ONLY WHEN IT IS MOIST (NOT WET OR DRY) TO AVOID DECLINE OF SOIL STRUCTURE.
- THE CONTRACTOR SHALL MAINTAIN A LOG BOOK DETAILING:
 - RECORDS OF ALL RAINFALL
 - CONDITION OF SOIL AND WATER MANAGEMENT STRUCTURES
 - ANY APPLICATION OF FLOCCULATING AGENTS TO SEDIMENT BASIN
 - VOLUMES OF ALL WATER DISCHARGED FROM SEDIMENT BASINS
 - ANY ADDITIONAL REMEDIAL WORKS REQUIRED.
- THE LOG BOOK SHALL BE MAINTAINED ON A WEEKLY BASIS AND BE MADE AVAILABLE TO ANY AUTHORISED PERSON UPON REQUEST. THE ORIGINAL LOG BOOK SHALL BE ISSUED TO THE PROJECT MANAGER AT THE COMPLETION OF WORKS.
- ALL ROAD EMBANKMENTS TO BE STABILISED AS PER LANDSCAPE ARCHITECTS DETAILS.
- A SELF AUDITING PROGRAM SHOULD BE ESTABLISHED BASED ON A CHECK SHEET DEVELOPED FOR THE SITE. A SITE INSPECTION USING THE CHECK SHEET SHOULD BE MADE BY THE SITE MANAGER AT LEAST WEEKLY, IMMEDIATELY BEFORE SITE CLOSURE AND IMMEDIATELY FOLLOWING RAINFALL EVENTS THAT CAUSE RUNOFF.
- UNDERTAKE THE SELF AUDIT BY:
 - WALKING AROUND THE SITE SYSTEMATICALLY (E.G. CLOCKWISE)
 - RECORDING THE CONDITION OF EVERY BMP EMPLOYED
 - RECORDING MAINTENANCE REQUIREMENTS (IF ANY) FOR EACH BMP
 - RECORDING THE SITE WHERE SEDIMENT IS DISPOSED
 - FORWARDING A SIGNED DUPLICATE OF THE COMPLETED CHECK SHEET TO THE PROJECT MANAGER/DEVELOPER/SITE OPERATOR FOR THEIR INFORMATION

- IN PARTICULAR, INSPECT:
 - LOCATIONS WHERE VEHICLES ENTER AND LEAVE THE SITE
 - ALL INSTALLED EROSION AND SEDIMENT CONTROL MEASURES, ENSURING THEY ARE OPERATING CORRECTLY
 - AREAS THAT MIGHT SHOW WHETHER SEDIMENT OR OTHER POLLUTANTS ARE LEAVING THE SITE OR HAVE POTENTIAL TO DO SO
 - ALL DISCHARGE POINTS, TO ASSESS WHETHER THE EROSION AND SEDIMENT CONTROL MEASURES ARE EFFECTIVE IN PREVENTING IMPACTS TO THE RECEIVING WATERS
- A SITE INSPECTION USING THE CHECK SHEET WILL BE MADE BY THE SITE MANAGER AT LEAST WEEKLY, IMMEDIATELY BEFORE SITE CLOSURE, AND IMMEDIATELY FOLLOWING RAINFALL EVENTS GREATER THAN 5mm IN 24 HOURS.
- COUNCIL TO INSPECT TREES PRIOR TO CONSTRUCTION WORKS COMMENCE.



NSW GOVERNMENT
Planning

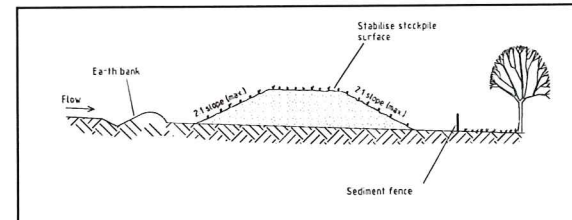
Issued under the Environmental Planning and Assessment Act 1979

Approved Application No. SSD 6954

granted on the 3/5/16

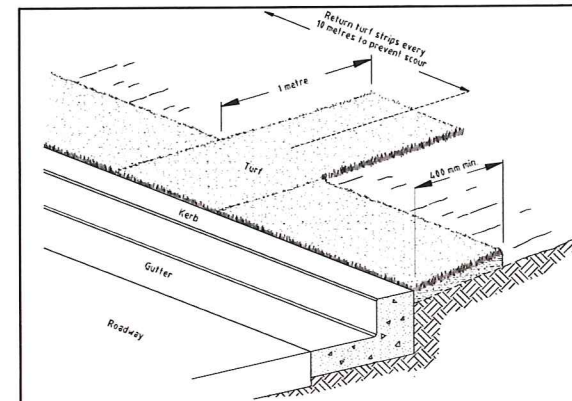
Signed TP

Sheet No. 18 of 76



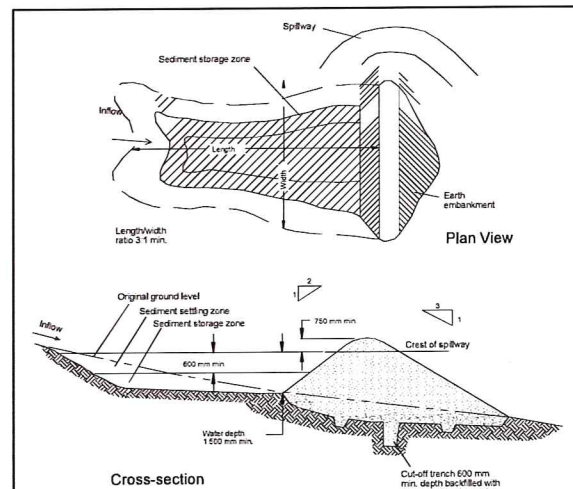
- Construction Notes**
- Place stockpiles more than 2 (preferably 5) metres from existing vegetation, concentrated water flow, roads and hazard areas.
 - Construct on the contour as low, flat, elongated mounds.
 - Where there is sufficient area, topsoil stockpiles shall be less than 2 metres in height.
 - Where there 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.
 - 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 2 metres downslope.

STOCKPILES SD 4-1



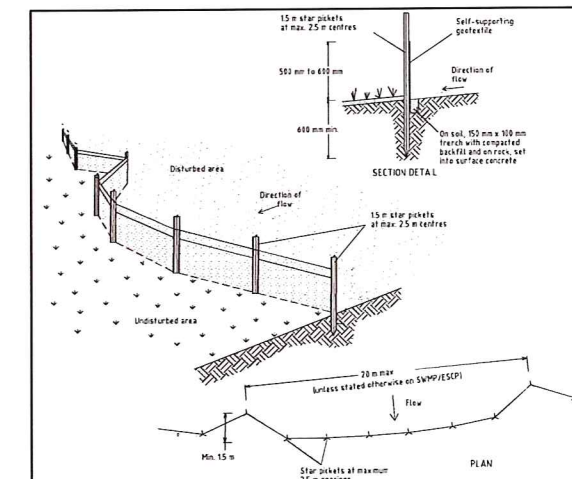
- Construction Notes**
- Install a 400 mm minimum wide roll of turf on the footpath next to the kerb and at the same level as the top of the kerb.
 - Lay 14 metre long turf strips normal to the kerb every 10 metres.
 - Rehabilitate disturbed soil behind the turf strip following the ESCP/SWMP.

KERBSIDE TURF STRIP SD 6-13



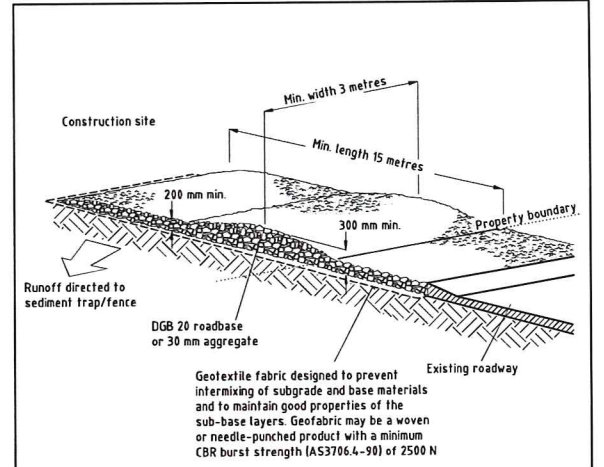
- Construction Notes**
- Remove all vegetation and topsoil from under the dam wall and from within the storage area.
 - Construct a cut-off trench 500 mm deep and 1200 mm wide along the centreline of the embankment extending to a point on the gully wall level with the riser crest.
 - Maintain the trench free of water and recompact the materials with equipment as specified in the SWMP to 95 per cent Standard Proctor Density.
 - Select fill following the SWMP that is free of roots, wood, rock, large stone or foreign material.
 - Prepare the site under the embankment by ripping to at least 100 mm to help bond compacted fill to the existing substrate.
 - Spread the fill in 100 mm to 150 mm layers and compact it at optimum moisture content following the SWMP.
 - Construct the emergency spillway.
 - Rehabilitate the structure following the SWMP.

EARTH BASIN - WET SD 6-4
(APPLIES TO 'TYPE D' AND 'TYPE F' SOILS ONLY)



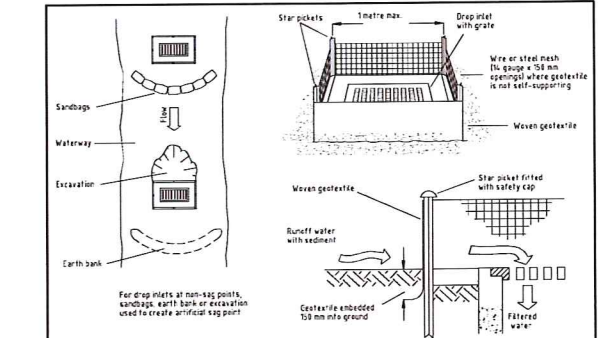
- Construction Notes**
- Construct sediment fences as close as possible to being parallel to the contours of the site, but with small returns as shown in the drawing to limit the catchment area of any one section. The catchment area should be small enough to limit water flow if concentrated at one point to 50 litres per second in the design storm event, usually the 10-year event.
 - Cut a 150-mm deep trench along the upslope line of the fence for the bottom of the fabric to be entrenched.
 - 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 filled with safety caps.
 - 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.
 - Join sections of fabric at a support post with a 150-mm overlap.
 - Backfill the trench over the base of the fabric and compact it thoroughly over the geotextile.

SEDIMENT FENCE SD 6-8



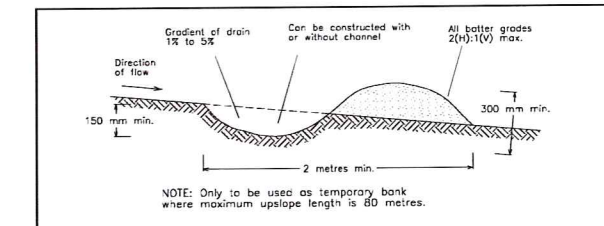
- Strip the topsoil, level the site and compact the subgrade.
- Cover the area with needle-punctured geotextile.
- Construct a 200 mm thick pad over the geotextile using road base or 30 mm aggregate.
- Ensure the structure is at least 15 metres long or to building alignment and at least 3 metres wide.
- 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**
- Fabricate a sediment barrier made from geotextile or straw bales.
 - Follow Standard Drawing 6-8 for installation procedures for geotextile. Reduce the picket spacing to 1 metre centres.
 - In waterways, artificial sag points can be created with sandbags or earth banks as shown in the drawing.
 - 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**
- Build with gradients between 1 percent and 5 percent.
 - Avoid removing trees and shrubs if possible - work around them.
 - Ensure the structures are free of projections or other irregularities that could impede water flow.
 - Build the drains with circular, parabolic or trapezoidal cross sections, not V shaped.
 - Ensure the banks are properly compacted to prevent failure.
 - Complete permanent or temporary stabilisation within 10 days of construction.

EARTH BANK (LOW FLOW) SD 5-5

FOR DEVELOPMENT APPLICATION

Revisions	Drawn	Design	Check	Appd	Date	Revision Details
1	LH	LF	MP		1/06/2015	ISSUED FOR CLIENT REVIEW
2	LH	LF	PD		1/06/2015	ISSUE FOR DEVELOPMENT APPLICATION
3	LH	MP	PD		23/06/2015	ISSUE TO SUIT COUNCIL COMMENTS
First Issue	LH	MP				

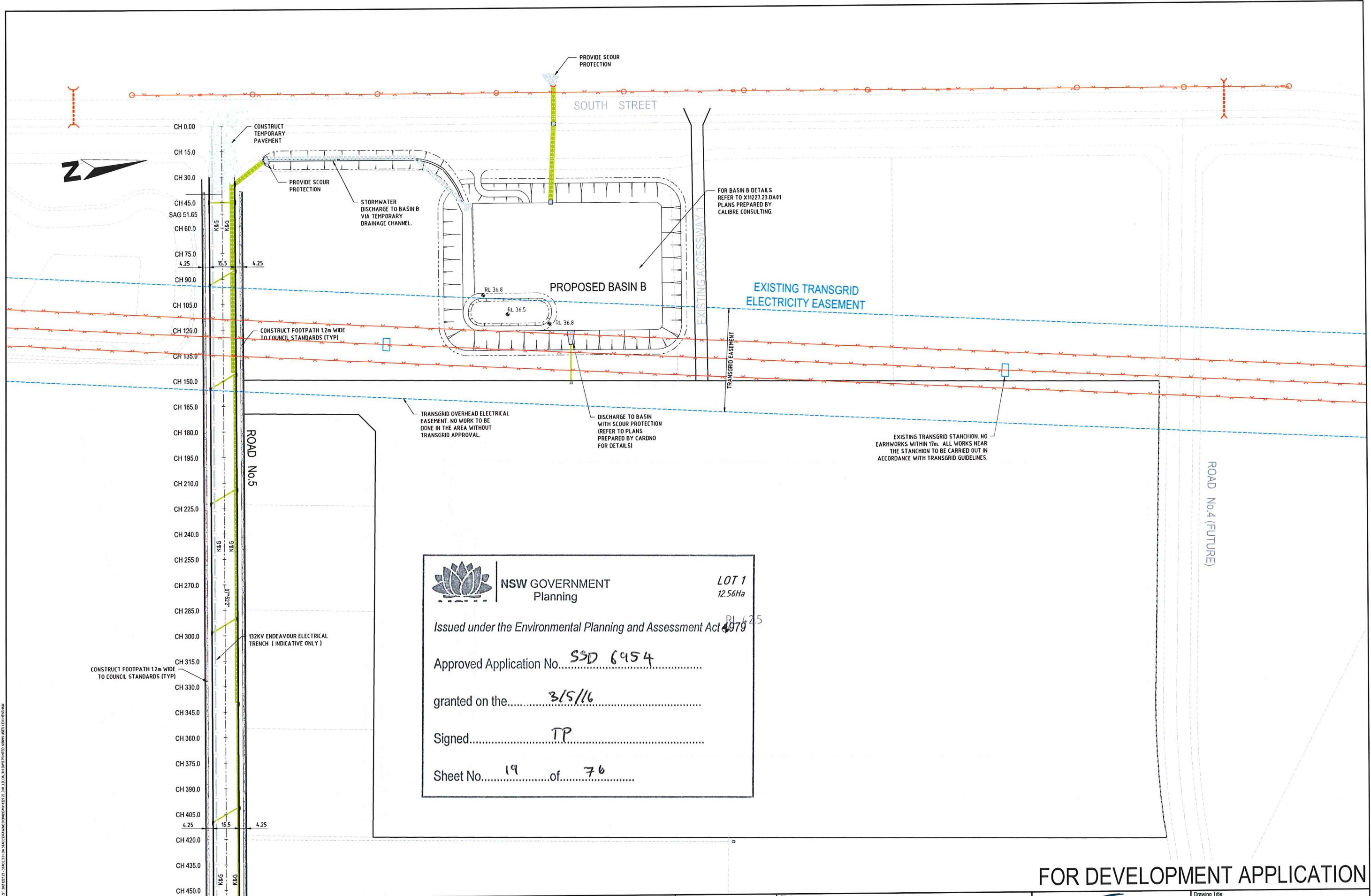
Disclaimer and Copyright.
ALL DIMENSIONS TO BE CHECKED ON SITE BY CONTRACTOR PRIOR TO CONSTRUCTION. USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE.
NOT FOR CONSTRUCTION UNLESS STAMPED BY CERTIFYING AUTHORITY.
© Calibre Consulting Pty Ltd


Authorised for Issue:
BY: **STUART GREEN**
FIEAunt, CPEng, Manager - Urban Development
SIGN: *[Signature]*
DATE: *[Date]*

Client: **MARSDEN PARK DEVELOPMENT**
Project: **MARSDEN PARK INDUSTRIAL STAGE 3.01 ROAD & DRAINAGE DESIGN**



Drawing Title: SEDIMENT & EROSION CONTROL NOTES & DETAILS				
Project No.:	Stage:	Milestone:	Dwg No.:	Revision:
X11227.23	3.01	DA	102	3




NSW GOVERNMENT
 Planning

LOT 1
 12.56Ha

Issued under the Environmental Planning and Assessment Act 1979

Approved Application No. SSD 6454

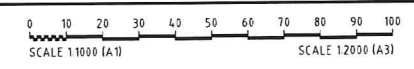
granted on the 3/5/16

Signed TP

Sheet No. 19 of 76


FOR DEVELOPMENT APPLICATION

Rev	Issue	Drawn	Design	Check	Appd	Date
1	LH	LF	MP			1/06/2015
2	LH	LF	PD			1/06/2015
3	LH	MP	PD			23/06/2015



Disclaimer and Copyright:
 ALL DIMENSIONS TO BE CHECKED ON SITE BY CONTRACTOR PRIOR TO CONSTRUCTION. USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE.
 NOT FOR CONSTRUCTION UNLESS STAMPED BY CERTIFYING AUTHORITY

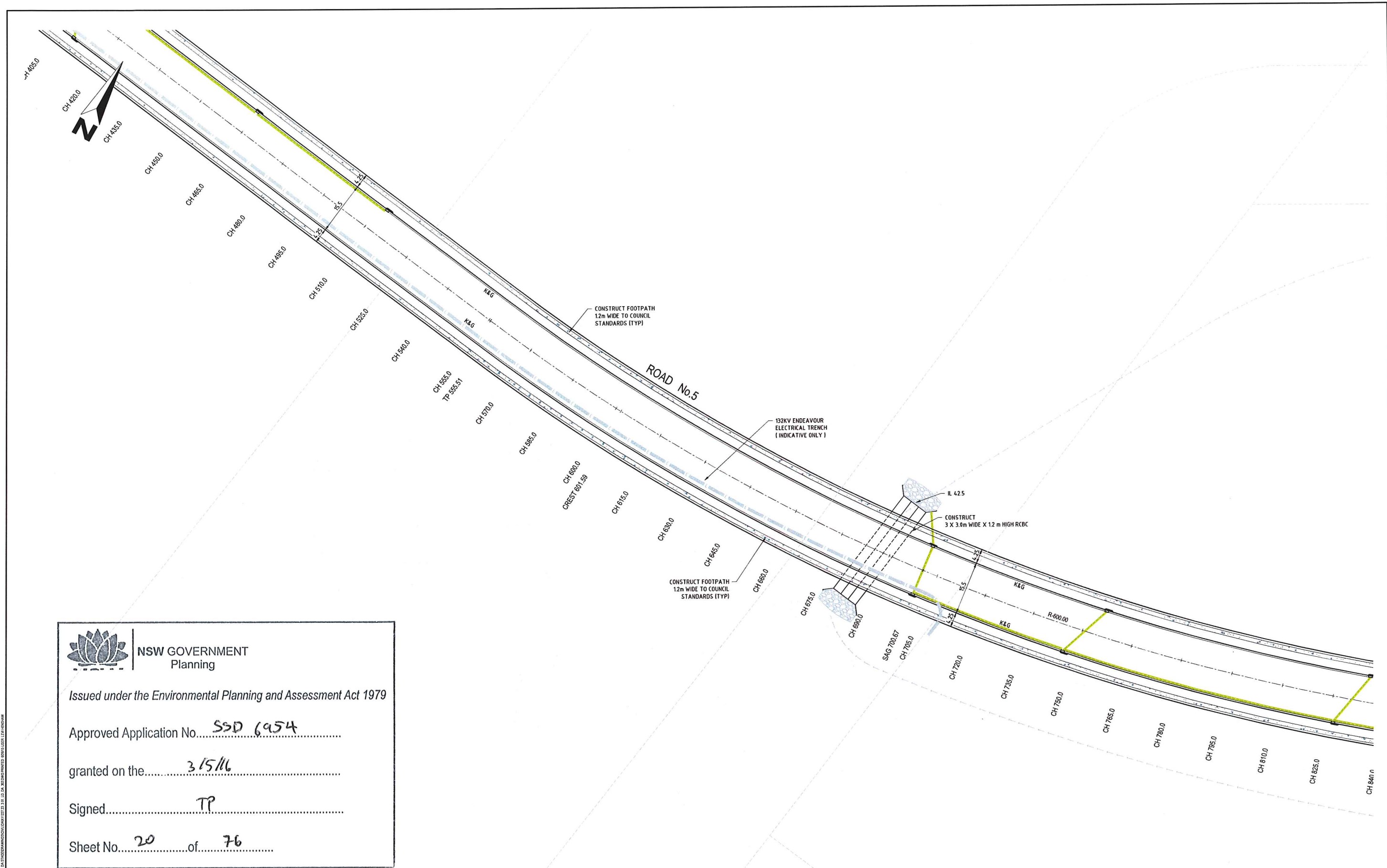
 © Calibre Consulting Pty Ltd


Authorised for Issue:
 BY: **STUART GREEN**
 FIEAustL CPEng, Manager - Urban Development
 SIGN: 
 DATE: 23/6/15

Client: **MARSDEN PARK DEVELOPMENT**
 Project: **MARSDEN PARK INDUSTRIAL STAGE 3.01 ROAD & DRAINAGE DESIGN**



Drawing Title: ENGINEERING PLAN SHEET 01 OF 04				
Project No.: X11227.23	Stage: 3.01	Milestone: DA	Dwg No.: 301	Revision: 3




NSW GOVERNMENT
 Planning

Issued under the Environmental Planning and Assessment Act 1979

Approved Application No. SSD 6954

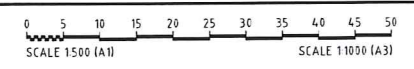
granted on the 3/5/16

Signed TP

Sheet No. 20 of 76


FOR DEVELOPMENT APPLICATION

Rev	Issue	Drawn	Design	Check	Appd.	Date	Revision Details
1	LH	LF	MP			1/06/2015	ISSUED FOR CLIENT REVIEW
2	LH	LF	PD			1/06/2015	ISSUE FOR DEVELOPMENT APPLICATION
3	LH	MP	PD			23/06/2015	ISSUE TO SUIT COUNCIL COMMENTS



Disclaimer and Copyright
 ALL DIMENSIONS TO BE CHECKED ON SITE BY CONTRACTOR PRIOR TO CONSTRUCTION. USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE.
 NOT FOR CONSTRUCTION UNLESS STAMPED BY CERTIFYING AUTHORITY

 © Calibre Consulting Pty Ltd

Authorized for Issue:
 BY: **STUART GREEN**
 FIEAut. CPEng. Manager - Urban Development
 SIGN: 
 DATE: 23/15

Client: **MARSDEN PARK DEVELOPMENT**
 Project: **MARSDEN PARK INDUSTRIAL STAGE 3.01 ROAD & DRAINAGE DESIGN**



Drawing Title: ENGINEERING PLAN SHEET 02 OF 04				
Project No.: X11227.23	Stage: 3.01	Milestone: DA	Dwg No.: 302	Revision: 3