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Cardno (NSW/ACT) Pty Ltd | ABN 95 001 145 035
Level 9, The Forum, 203 Pacific Highway
St. Leonards, NSW 2065
Tel: 02 9496 7700 Fax: 02 9439 5170
Web: www.cardno.com.au

FDC BUILDING IKEA MFLU MARSDEN PARK INDUSTRIAL PRECINCT DEVELOPMENT APPLICATION



DRAWING SCHEDULE

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80215051-01-1531	EROSION & SEDIMENT CONTROL DETAILS

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Rev.	Date	Description	Des.	Verif.	Appd.
7	06.07.15	REISSUED FOR DEVELOPMENT APPLICATION	AS	DAC	SCP
6	10.06.15	REISSUED FOR TENDER	AS	DAC	SCP
5	29.05.15	ISSUED FOR TENDER	AS	DAC	SCP
4	04.05.15	FINAL DEVELOPMENT APPLICATION	AS	DAC	SCP
3	23.04.15	DEVELOPMENT APPLICATION	AS	DAC	SCP
2	20.04.15	ISSUED FOR INFORMATION - WORK IN PROGRESS	AS	DAC	SCP
1	27.03.15	ISSUED FOR INFORMATION - WORK IN PROGRESS	DAC		

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Drawn BJH	Date 06.07.15	Status	FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION PURPOSES			
Checked DAC	Date 06.07.15					
Designed AS	Date 06.07.15					
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Approved		Drawing Number 80215051-01-1001		Revision 7		
SCP	06.07.15					

GENERAL

- 1. ALL WORKS TO BE CONSTRUCTED IN ACCORDANCE WITH BLACKTOWN CITY COUNCIL GUIDELINES.
- 2. BLACKTOWN CITY COUNCIL STANDARD DETAILS TO BE USED WHERE POSSIBLE.

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 CARDNO.
- 3. MAKE SMOOTH CONNECTION WITH EXISTING WORKS AND SURFACES.
- 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, 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 50m³ OF BASECOURSE MATERIAL PLACED.
- 9. ALL SUB-BASE COURSE MATERIAL SHALL BE IGNEOUS ROCK QUARRIED MATERIAL TO COMPLY WITH R.M.S. FORM 3051, 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 100m³ 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 WILL BE CONSIDERED. SUBJECT TO MATERIAL SAMPLES AND APPROPRIATE CERTIFICATIONS BEING PROVIDED TO THE SATISFACTION OF CARDNO AND THE SUPERINTENDENT.

BULK EARTHWORKS NOTES

- 1. ORIGIN OF LEVELS- REFER SURVEY NOTES
- 2. STRIP ALL TOPSOIL/ORGANIC MATERIAL FROM CONSTRUCTION AREA AND STOCK PILE AS DIRECTED BY SUPERINTENDENT FOR FUTURE REUSE.
- 3. EXCAVATED MATERIAL TO BE USED AS STRUCTURAL FILL PROVIDED THE PLACEMENT MOISTURE CONTENT OF THE MATERIAL IS +/- 2% OF THE OPTIMUM MOISTURE CONTENT.
- 4. COMPACT FILL AREAS AND SUBGRADE TO NOT LESS THAN:

LOCATION	STANDARD DRY DENSITY (AS 1289 E 5.1.1)
UNDER BUILDING SLABS ON GROUND	98%
UNDER ROADS AND CARPARKS	98%
LANDSCAPED AREAS UNLESS NOTED OTHERWISE	98%
- 5. FOR NON COHESIVE MATERIAL, COMPACT TO 75% DENSITY INDEX.
- 6. BEFORE PLACING FILL, PROOF ROLL EXPOSED SUBGRADE WITH AN 8 TONNE (MIN) DEADWEIGHT SMOOTH DRUM VIBRATORY ROLLER TO DETECT THEN REMOVE SOFT SPOTS (AREAS WITH MORE THAN 2mm MOVEMENT UNDER ROLLER).
- 7. FREQUENCY OF COMPACTION TESTING SHALL BE NOT LESS THAN--
 - (A) 1 TEST PER 1,000m³ OF FILL PLACED PER LAYER OF FILL.
 - (B) 3 TESTS PER VISIT
 - (C) 1 TEST PER 1000m² OF EXPOSED SUBGRADE "LEVEL 1" TESTING SHALL BE TESTING IN ACCORDANCE WITH AS 3798 (1996).
- 8. FILLING TO BE PLACED IN MAXIMUM 500mm - LOOSE LAYERS AND COMPACTED AS SPECIFIED
- 9. NO FILLING SHALL TAKE PLACE TO EXPOSED SUBGRADE UNTIL THE AREA HAS BEEN PROOF ROLLED IN THE PRESENCE OF A SUITABLY QUALIFIED GEOTECHNICAL ENGINEER AND APPROVAL GIVEN IN WRITING THAT FILLING CAN PROCEED.

EROSION AND SEDIMENT CONTROL NOTES

GENERAL INSTRUCTIONS

- 1. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE CONTROL OF EROSION AND SEDIMENTATION TO THE SATISFACTION OF COUNCIL, NSW OFFICE OF WATER, SYDNEY WATER, THE OFFICE OF ENVIRONMENT AND HERITAGE, AND LEND LEASE'S REPRESENTATIVE. TO THIS END, THE EROSION AND SEDIMENTATION CONTROLS SHOWN ON THE DRAWINGS SHALL ONLY BE USED AS A GUIDE BY THE CONTRACTOR, AND REPRESENT THE MINIMUM REQUIREMENT ONLY.
- 2. THE CONTRACTOR SHALL ENSURE THAT ALL SOIL AND WATER MANAGEMENT WORKS ARE LOCATED AS DOCUMENTED OR AS OTHERWISE DIRECTED BY THE SUPERINTENDENT. 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.
- 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 SEDIMENT FENCE ALONG THE BOUNDARIES AS SHOWN ON PLAN. REFER DETAIL.
 - b. CONSTRUCT STABILISED CONSTRUCTION ENTRANCE TO LOCATION AS DETERMINED BY SUPERINTENDENT/ENGINEER. REFER DETAIL.
 - c. INSTALL SEDIMENT BASIN AS SHOWN ON PLAN (D). INSTALL SEDIMENT TRAPS AS SHOWN ON PLAN.
 - d. 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 IS PRACTICABLE AFTER THE 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.
- 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.

NOISE

EPA AND COUNCIL REQUIREMENTS MUST BE ADHERED TO REGARDING LEVEL OF NOISE AND WORKING HOURS TO ENSURE THAT RESIDENTS AND OTHER APPLICABLE NEIGHBORS TO THE SITE ARE NOT DISTURBED UNREASONABLY. THE GENERATION OF NOISE MUST BE MINIMISED.

DUST

DUST MUST BE MINIMISED TO ENSURE THERE IS NO HEALTH RISK OR LOSS OF AMENITY.

STAGING OF WORKS

STRIPPING WORKS ARE TO BE STAGED TO MINIMISE EXTENT OF EXPOSED AREA. WEATHER CONDITIONS TO BE ASSESSED PRIOR TO UNDERTAKING STRIPPING.

STOCKPILE PROTECTION

SEDIMENT RETENTION STRUCTURES TO BE PLACED DOWNSLOPE OF ANY STOCKPILES. STOCKPILE IN PLACE > 28 DAYS TO BE TEMPORARILY GRASSED.

VEHICLE AND ROAD MANAGEMENT

SITE ACCESS TO BE RESTRICTED TO ALLOCATED TRUCK ROUTES. EXTERNAL ROADS TO BE SWEEPED REGULARLY FOR DURATION OF WORKS.

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. CARDNO 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.

STORMWATER DRAINAGE NOTES

- 1. STORMWATER DESIGN CRITERIA: AVERAGE RECURRENCE INTERVAL: 20 YEAR ARI
- 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 FRC PIPES MAY BE USED. SHOULD THE CONTRACTOR WISH TO USE FRC PIPES.
- 5. PIPES TO BE INSTALLED TO TYPE HS2 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)
- 6. ALL INTERNAL WORKS WITHIN PROPERTY BOUNDARIES ARE TO COMPLY WITH THE REQUIREMENTS OF AS 3500 3.1 (1998) AND AS/NZS 3500 3.2 (2000).
- 7. ENLARGERS, CONNECTIONS AND JUNCTIONS TO BE PREFABRICATED FITTINGS WHERE PIPES ARE LESS THAN 300 DIA.
- 8. WHERE SUBSOIL DRAINS PASS UNDER FLOOR SLABS AND VEHICULAR PAVEMENTS, UNSLOTTED uPVC SEWER GRADE PIPE IS TO BE USED.
- 9. CARE IS TO BE TAKEN WITH LEVELS OF STORMWATER LINES. GRADES SHOWN ARE NOT TO BE REDUCED WITHOUT APPROVAL.
- 10. GRATES AND COVERS SHALL CONFORM TO AS 3996.
- 11. AT ALL TIMES DURING CONSTRUCTION OF STORMWATER PITS, ADEQUATE SAFETY PROCEDURES SHALL BE TAKEN TO ENSURE AGAINST THE POSSIBILITY OF PERSONNEL FALLING DOWN PITS.
- 12. 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.

TELSTRA - DUTY OF CARE NOTE

TELSTRA'S PLANS SHOW ONLY THE PRESENCE OF CABLES AND PLANT. THEY ONLY SHOW THEIR POSITION RELATIVE TO ROAD BOUNDARIES, PROPERTY FENCES ETC. AT THE TIME OF INSTALLATION AND TELSTRA DOES NOT WARRANT OR HOLD OUT THAT SUCH PLANS ARE ACCURATE THEREAFTER DUE TO CHANGES THAT MAY OCCUR OVER TIME. DO NOT ASSUME DEPTH OR ALIGNMENT OF CABLES OR PLANT AS THESE VARY SIGNIFICANTLY. THE CONTRACTOR HAS A DUTY OF CARE WHEN EXCAVATING NEAR TELSTRA CABLES AND PLANT. BEFORE USING MACHINE EXCAVATORS TELSTRA PLANT MUST FIRST BE PHYSICALLY EXPOSED BY SOFT DIG POTHOLING TO IDENTIFY IT'S LOCATION TELSTRA WILL SEEK COMPENSATION FOR DAMAGES CAUSED TO IT'S PROPERTY AND LOSSES CAUSED TO TELSTRA AND IT'S CUSTOMERS.

SURVEY NOTES

THE EXISTING SITE CONDITIONS SHOWN ON THE FOLLOWING DRAWINGS HAVE BEEN INVESTIGATED BY WHELANS INSITES, BEING REGISTERED SURVEYORS. THE INFORMATION IS SHOWN TO PROVIDE A BASIS FOR DESIGN. CARDNO DOES NOT GUARANTEE THE ACCURACY OR COMPLETENESS OF THE SURVEY BASE OR IT'S SUITABILITY AS A BASIS FOR CONSTRUCTION DRAWINGS. SHOULD DISCREPANCIES BE ENCOUNTERED DURING CONSTRUCTION BETWEEN THE SURVEY DATA AND ACTUAL FIELD DATA, CONTACT CARDNO THE FOLLOWING NOTES HAVE BEEN TAKEN DIRECTLY FROM THE ORIGINAL SURVEY DOCUMENTS.

PROPOSED WORKS LEGEND

PROPOSED

- 100.0 PROPOSED CONTOUR
- 100.0 EXISTING CONTOURS
- SITE BOUNDARY
- BATTER SLOPE
- EXTENT OF WORKS
- TREES TO BE REMOVED AS PART OF BULK EARTHWORKS PACKAGE.
- TREES TO BE RETAINED
- BATTERS
- KERB & GUTTER REFER BLACKTOWN CITY COUNCIL STANDARD DETAIL.
- MEDIAN KERB REFER BLACKTOWN CITY COUNCIL STANDARD DETAIL.
- KERB ONLY REFER BLACKTOWN CITY COUNCIL STANDARD DETAIL.
- INTEGRAL KERB WITH THICKENED EDGE REFER DRG No 80215051-01-134.1 FOR DETAILS
- INTEGRAL KERB REFER BLACKTOWN CITY COUNCIL STANDARD DETAIL.
- DISH DRAIN REFER BLACKTOWN CITY COUNCIL STANDARD DETAIL.
- VEHICULAR CROSSING REFER BLACKTOWN CITY COUNCIL STANDARD DETAIL.
- PRAM RAMP REFER BLACKTOWN CITY COUNCIL FOR DETAIL.
- PRAM CROSSING
- CONCRETE HEADWALL
- DRAINAGE LINE No. DRAINAGE PIT No.
- STORMWATER PIPELINE
- DRAINAGE CAP
- STORMWATER DRAINAGE PITS
- SYPHONIC DRAINAGE PIPE (BY OTHERS)
- DOWNPIPE CONNECTION PIT
- RETAINING WALL
- SCOUR PROTECTION

PROPOSED WORKS LEGEND CONTINUED

- SUBSOIL DRAINAGE LINE TO BLACKTOWN CITY COUNCIL STANDARD DETAIL. FLUSHING POINTS NOT SHOWN ON PLANS FOR CLARITY. PROVIDE FLUSHING POINTS AT END OF LINE AND 50m SPACINGS WHERE REQUIRED.
- BIO-RETENTION PLANTING TO LANDSCAPE ARCHITECTS DETAILS.
- ARMCO GUARDRAIL AND PEDESTRIAN BALUSTRADE. REFER ARCHITECT'S DETAILS.
- SPRINKLER SYSTEM STORAGE TANK
- RAINWATER TANK
- FINISHED FLOOR LEVEL

EXISTING WORKS LEGEND

- TRANSGRID PYLON
- TRANSGRID EASEMENT
- TRANSGRID OVERHEAD ELECTRICAL
- EXISTING SEWER
- EXISTING RECYCLED WATER

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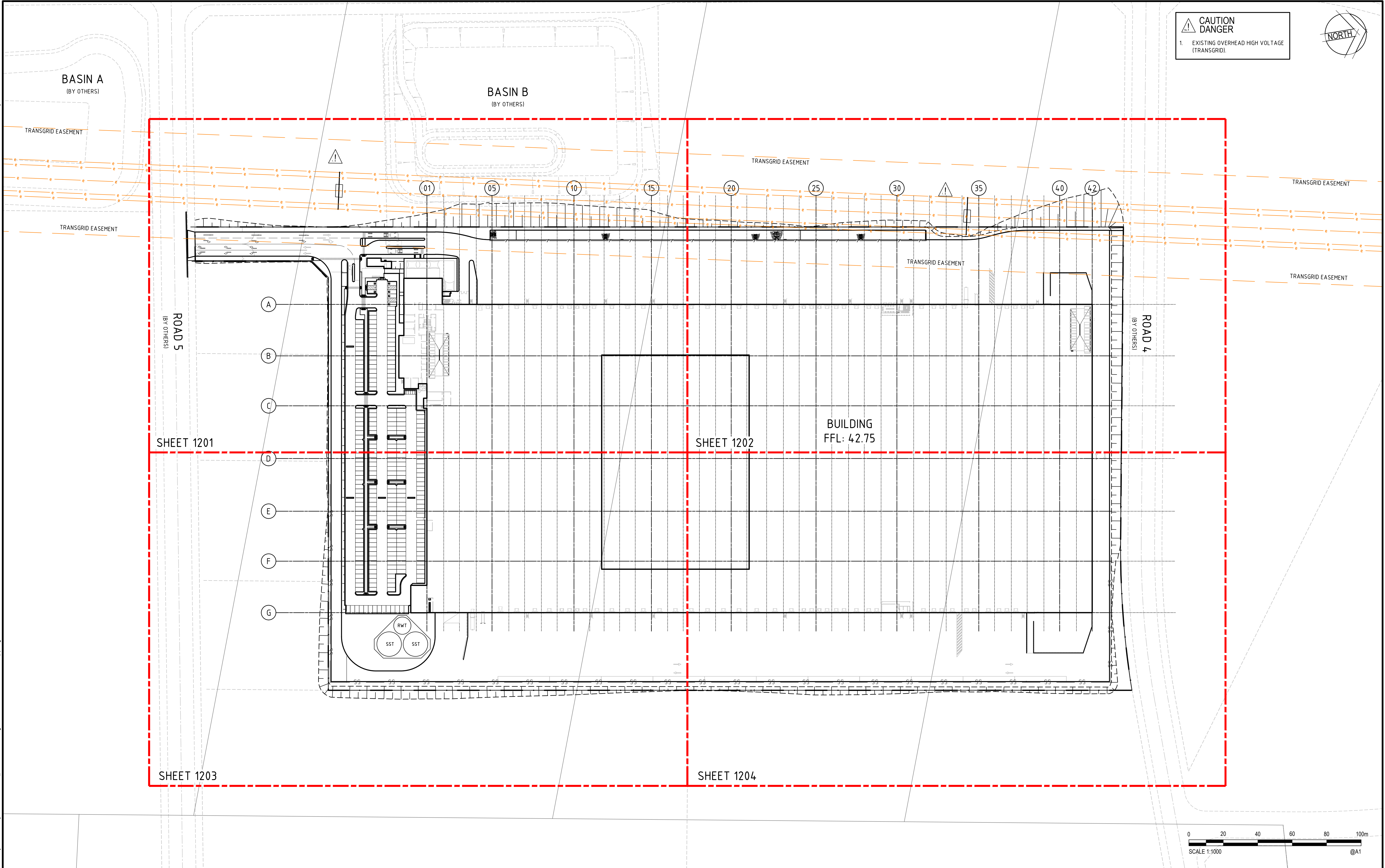
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Cardno (NSW/ACT) Pty Ltd | ABN 95 001 145 035
Level 9, The Forum, 203 Pacific Highway
St Leonards, NSW 2005
Tel: 02 9496 7700 Fax: 02 9439 5170
Web: www.cardno.com.au

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XREFs: Xref-80215051-01-Site Boundary, Xref-80215051-01-Existing Services, Xref-80215051-01-Design, Xref-80215051-01-Architect, Xref-80215051-01-Sydney Business Park, Xref-80215051-01-Client Logos, Xref-80215051-01-Sheet Layout
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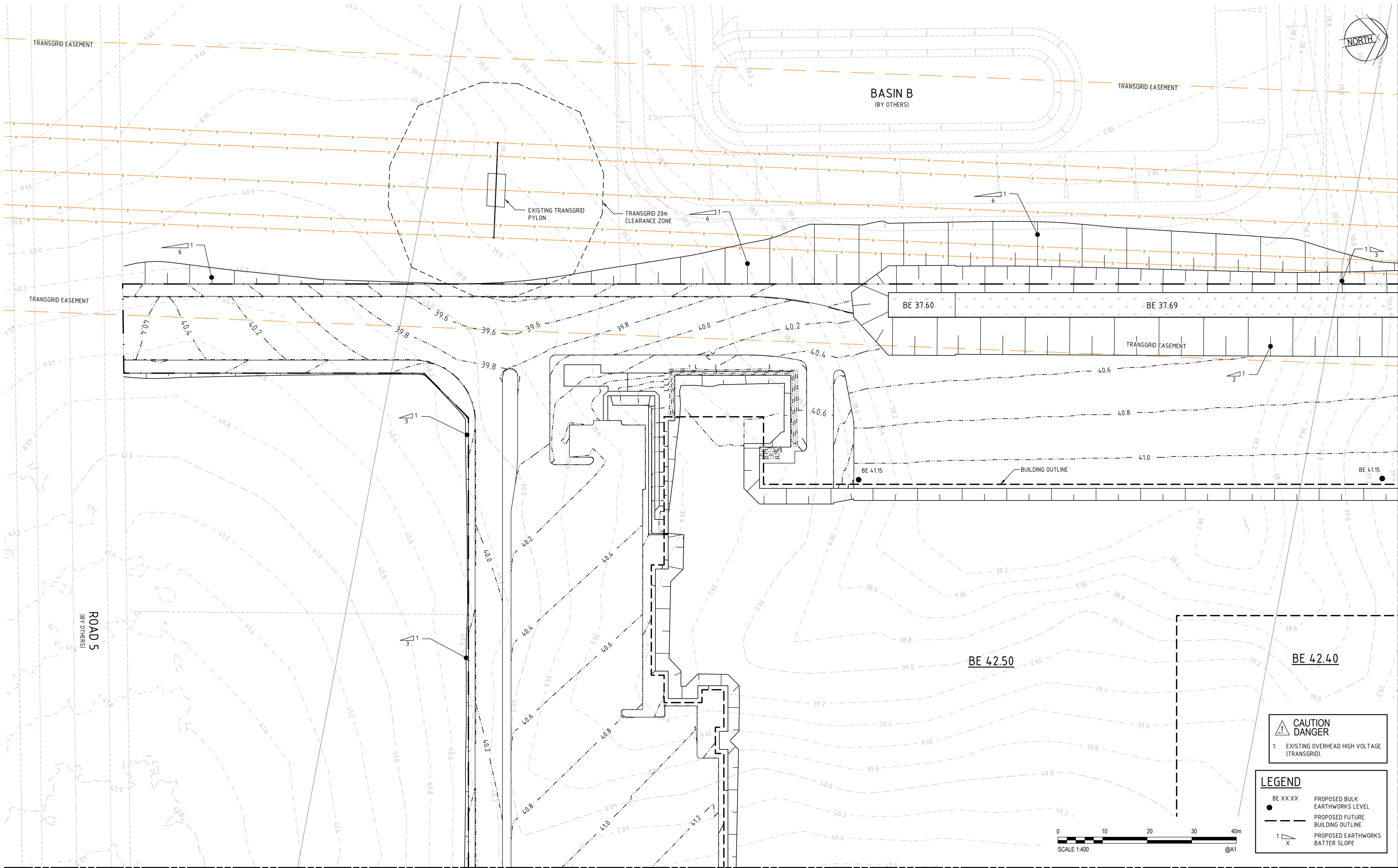
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Client	FDC BUILDING
Project	IKEA MFLU
	MARSDEN PARK INDUSTRIAL PRECINCT
	DEVELOPMENT APPLICATION
Title	GENERAL ARRANGEMENT PLAN

Status	FOR APPROVAL		
NOT TO BE USED FOR CONSTRUCTION PURPOSES			
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ADJOINS DRAWING 80215051-01-1103

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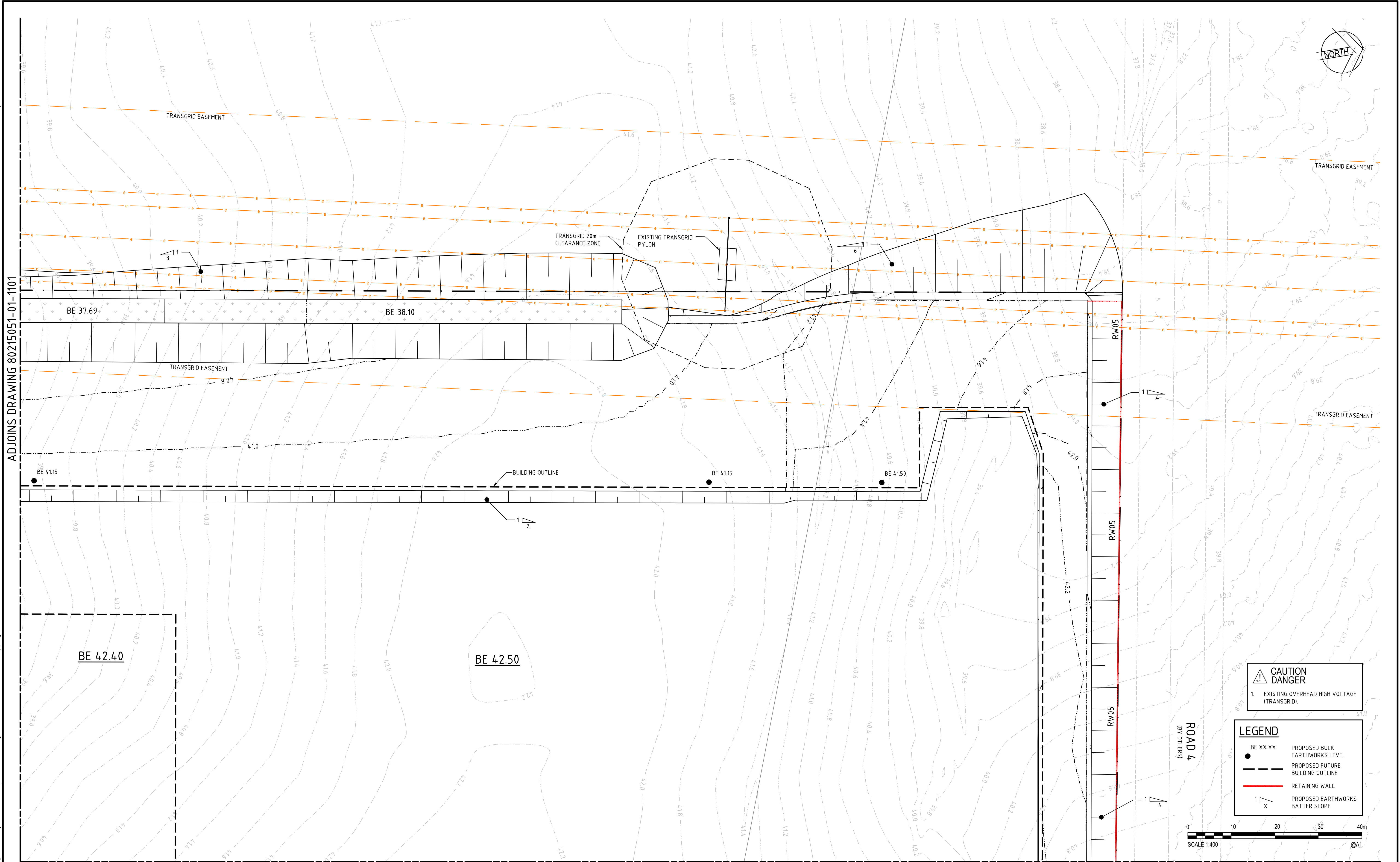
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Cardno (NSW/ACT) Pty Ltd | ABN 95 001 145 035
Level 9, The Forum, 203 Pacific Highway
St. Leonards, NSW 2005
Tel: 02 9496 7700 Fax: 02 9439 5170
Web: www.cardno.com.au

Drawn BJH	Date 06.07.15
Checked DAC	Date 06.07.15
Designed AS	Date 06.07.15
Verified DAC	Date 06.07.15
Approved SCP	Date 06.07.15

Client FDC BUILDING
Project IKEA MFLU MARSDEN PARK INDUSTRIAL PRECINCT DEVELOPMENT APPLICATION
Title BULK EARTHWORKS PLAN SHEET 1

Status FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION PURPOSES	Scale 1:400	Size A1
Datum AHD	Drawing Number 80215051-01-1101	Revision 2



ADJOINS DRAWING 80215051-01-1104

Rev.	Date	Description	Des.	Verif.	Appd.
2	06.07.15	REISSUED FOR DEVELOPMENT APPLICATION	AS	DAC	SCP
1	01.07.15	ISSUED FOR INFORMATION	DAC	SCP	SCP



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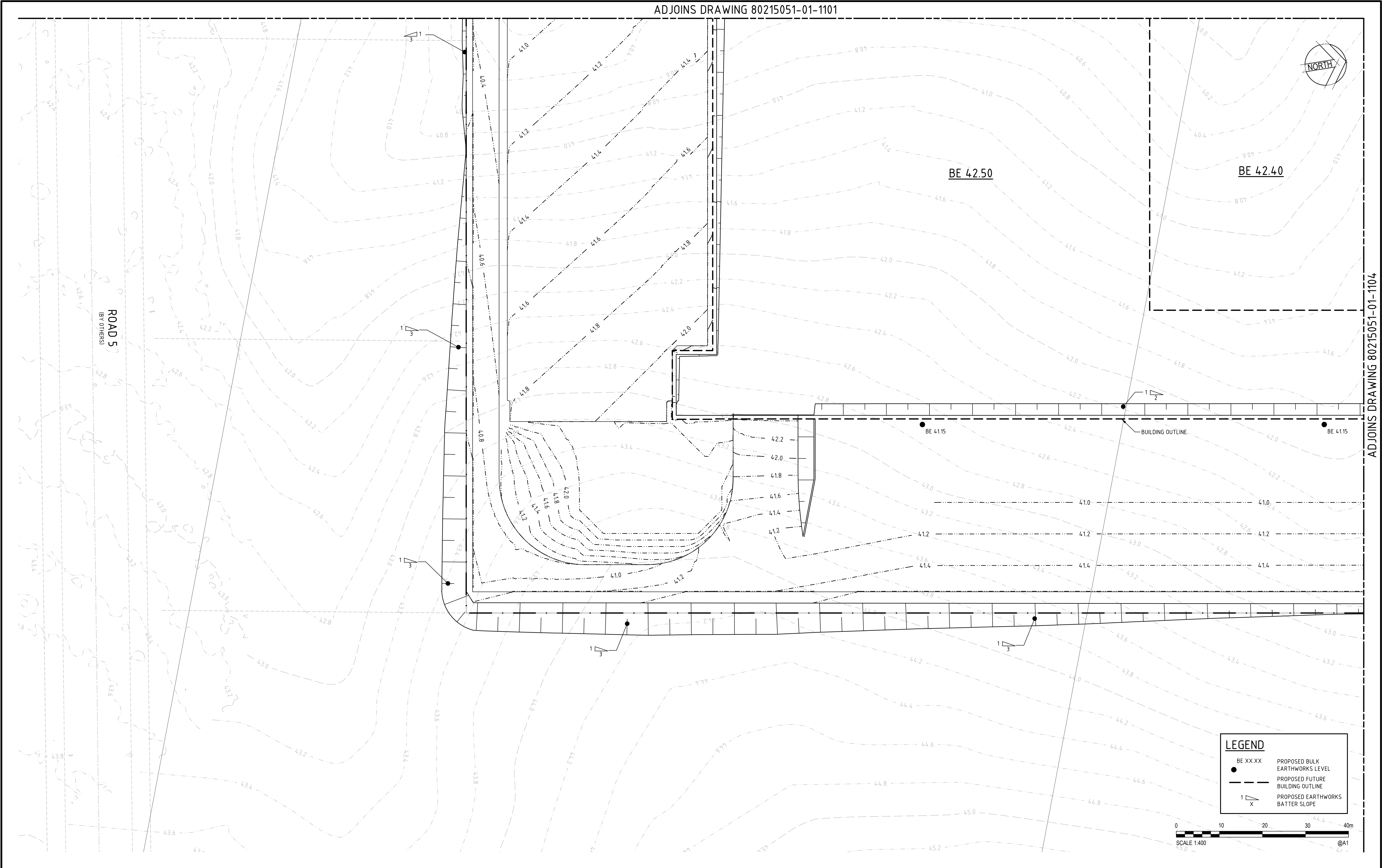
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Checked	DAC	Date	06.07.15
Designed	AS	Date	06.07.15
Verified	DAC	Date	06.07.15
Approved	SCP	Date	06.07.15

Client	FDC BUILDING
Project	IKEA MFLU MARSDEN PARK INDUSTRIAL PRECINCT DEVELOPMENT APPLICATION
Title	BULK EARTHWORKS PLAN SHEET 2

Status			
FOR APPROVAL			
NOT TO BE USED FOR CONSTRUCTION PURPOSES			
Datum		Scale	Size
AHD		1:400	A1
Drawing Number			Revision
80215051-01-1102			2

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CAD File: \\cardno.com\global\AU\NSW\Drawings\Build\80215051-01-1101-1104-DWG.dwg

DATE PLOTTED 6 July 2015 3:23 PM BY: BRITTANY HOLZHEIMER



ADJOINS DRAWING 80215051-01-1104

Rev.	Date	Description	Des.	Verif.	Appd.
2	06.07.15	REISSUED FOR DEVELOPMENT APPLICATION	AS	DAC	SCP
1	01.07.15	ISSUED FOR INFORMATION	DAC	SCP	SCP



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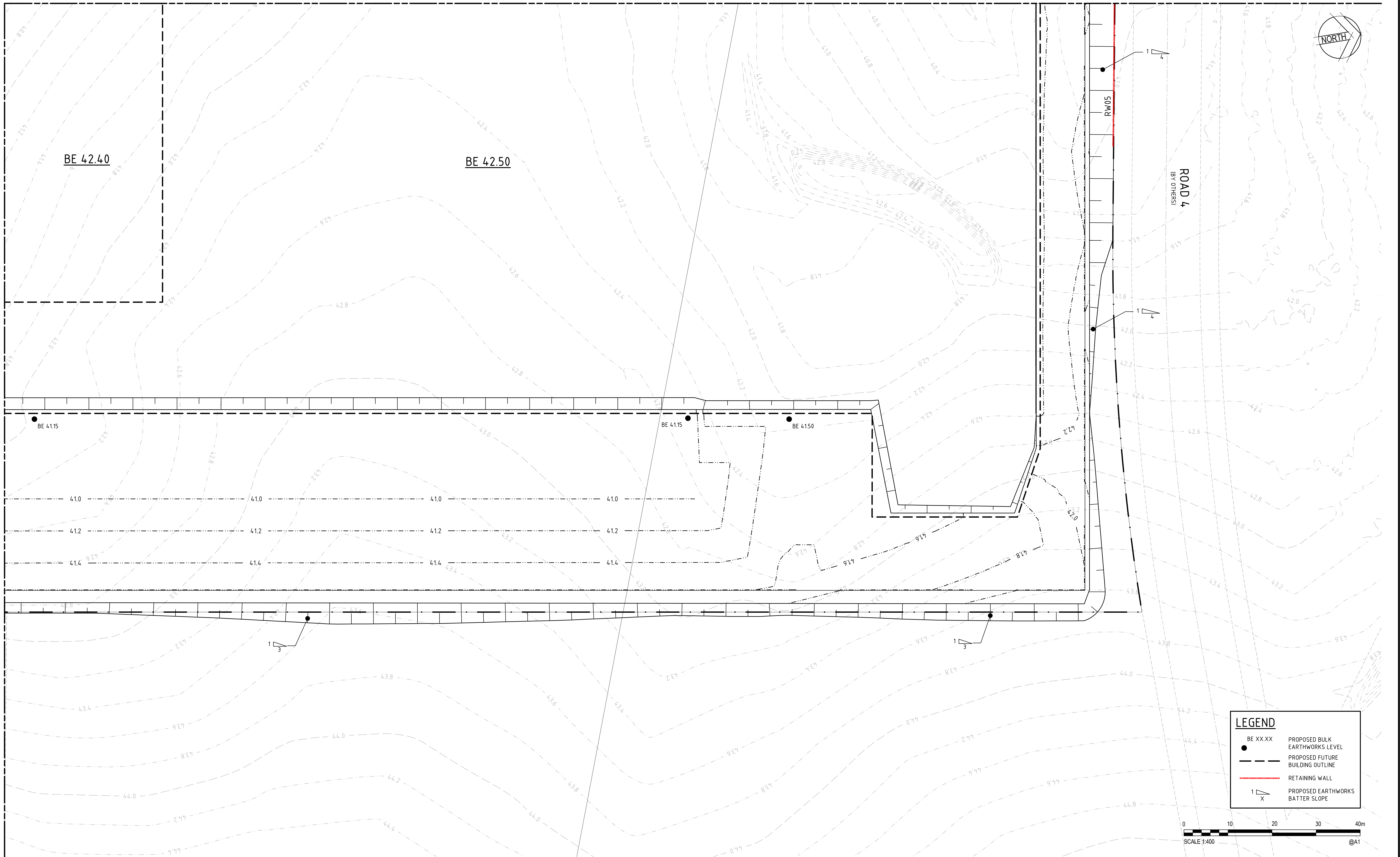


Drawn BJH	Date 06.07.15
Checked DAC	Date 06.07.15
Designed AS	Date 06.07.15
Verified DAC	Date 06.07.15
Approved SCP	Date 06.07.15

Client FDC BUILDING
Project IKEA MFLU MARSDEN PARK INDUSTRIAL PRECINCT DEVELOPMENT APPLICATION
Title BULK EARTHWORKS PLAN SHEET 3

Status			
FOR APPROVAL			
NOT TO BE USED FOR CONSTRUCTION PURPOSES			
Datum	Scale	Size	
AHD	1:400	A1	
Drawing Number			Revision
80215051-01-1103			2

ADJOINS DRAWING 80215051-01-1103



2	06.07.15	REISSUED FOR DEVELOPMENT APPLICATION	AS	DAC	SCP
1	01.07.15	ISSUED FOR INFORMATION	DAC	SCP	SCP
Rev.	Date	Description	Des.	Verif.	Appd.



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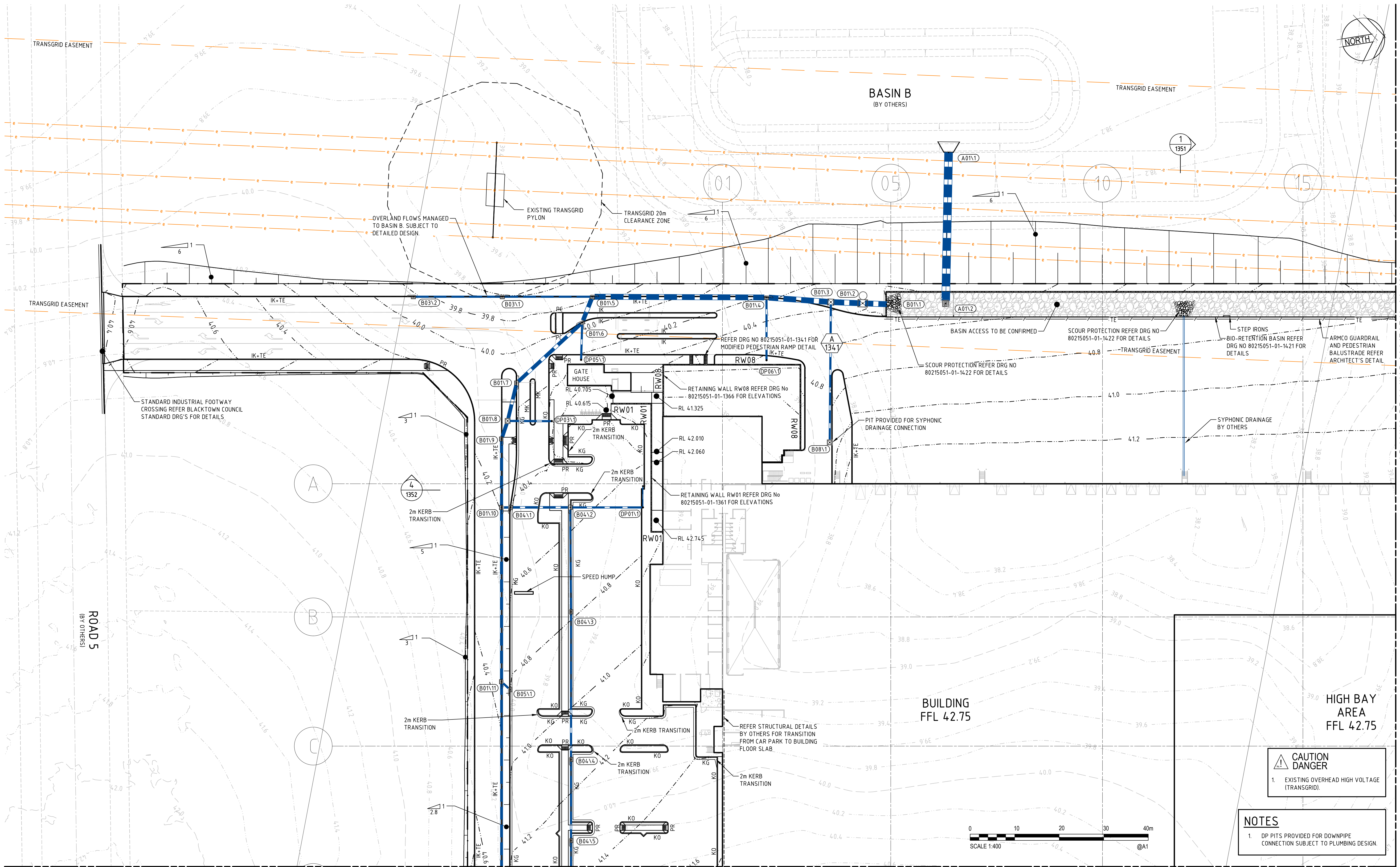


Drawn	Date
BJH	06.07.15
Checked	Date
DAC	06.07.15
Designed	Date
AS	06.07.15
Verified	Date
DAC	06.07.15
Approved	
SCP	06.07.15

Client	FDC BUILDING
Project	IKEA MFLU MARSDEN PARK INDUSTRIAL PRECINCT DEVELOPMENT APPLICATION
Title	BULK EARTHWORKS PLAN SHEET 4

Status			
FOR APPROVAL			
NOT TO BE USED FOR CONSTRUCTION PURPOSES			
Datum	Scale	Size	
AHD	1:400	A1	
Drawing Number			Revision
80215051-01-1104			2

DATE PLOTTED: 9 July 2015 10:39 AM BY: BRITTANY HOLZHEIMER
XREFS: Xref-80215051-01-Design Services: Xref-80215051-01-Sheet Layout: X-CONT-exst-500: Xref-80215051-01-Site Boundary: X-CONT-DESIGN-500: Xref-80215051-01-Design Contours 500: Xref-80215051-01-Drainage
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ADJOINS DRAWING 802150511-01-1203

Rev.	Date	Description	Des.	Verif.	Appd.
8	09.07.15	REISSUED FOR DEVELOPMENT APPLICATION	AS	DAC	SCP
7	06.07.15	REISSUED FOR DEVELOPMENT APPLICATION	AS	DAC	SCP
6	10.06.15	REISSUED FOR TENDER	AS	DAC	SCP
5	29.05.15	ISSUED FOR TENDER	AS	DAC	SCP
4	04.05.15	FINAL DEVELOPMENT APPLICATION	AS	DAC	SCP
3	23.04.15	DEVELOPMENT APPLICATION	AS	DAC	SCP
2	20.04.15	ISSUED FOR INFORMATION - WORK IN PROGRESS	AS	DAC	SCP
1	27.03.15	ISSUED FOR INFORMATION - WORK IN PROGRESS	DAC		



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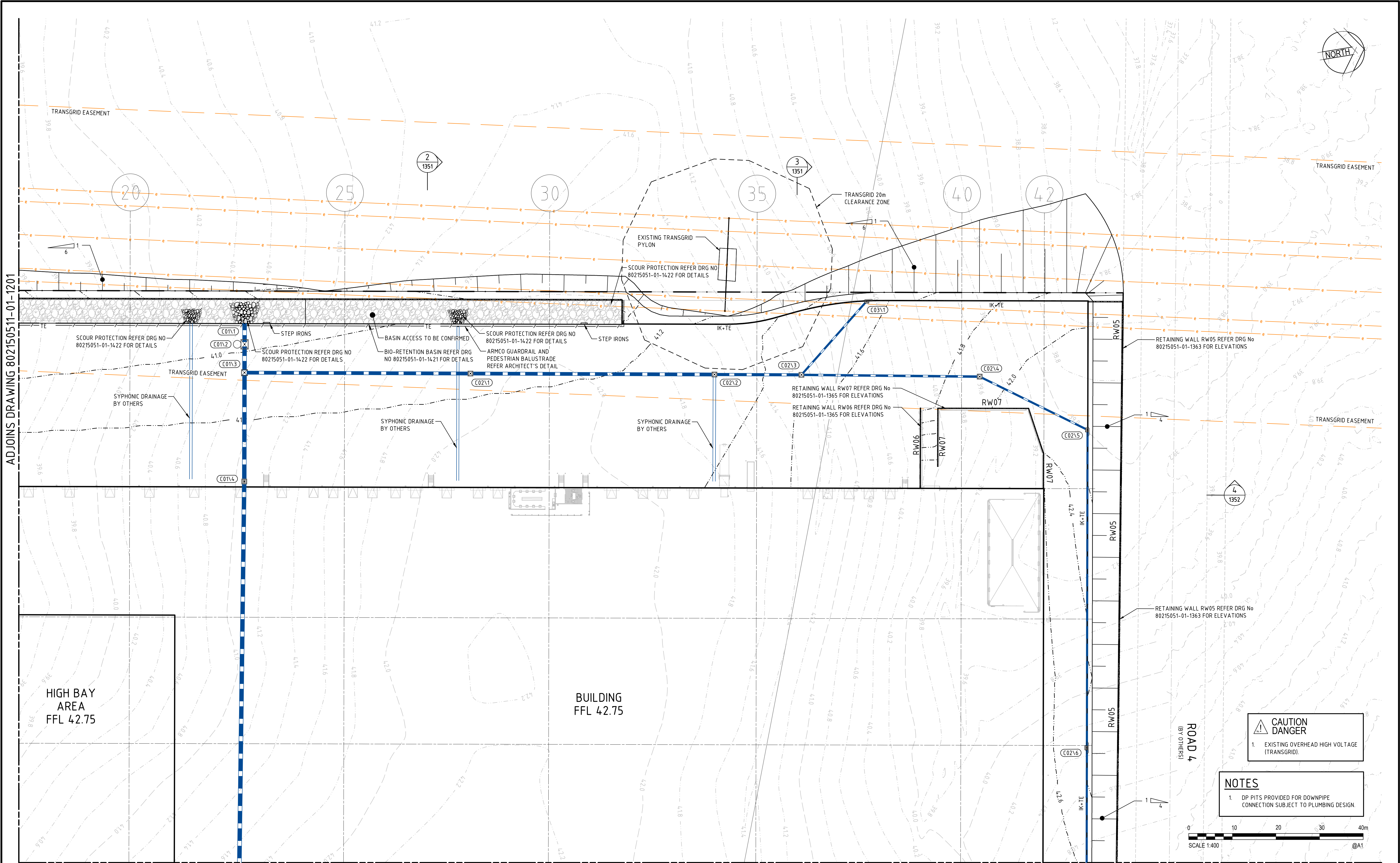


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Checked	DAC	Date	09.07.15
Designed	AS	Date	09.07.15
Verified	DAC	Date	09.07.15
Approved	SCP	Date	09.07.15

Client	FDC BUILDING
Project	IKEA MFLU
	MARSDEN PARK INDUSTRIAL PRECINCT
	DEVELOPMENT APPLICATION
Title	CIVIL WORKS PLAN
	SHEET 1

Status	FOR APPROVAL
Datum	AHD
Scale	1:400
Size	A1
Drawing Number	80215051-01-1201
Revision	8

XREFs: Xref-80215051-01-Design, Xref-80215051-01-Sheet Layout, X-CONT-exa-500, Xref-80215051-01-Sydney Business Park, Xref-80215051-01-Architect, Xref-80215051-01-Client Logos, Xref-80215051-01-1201-1204-DWG(0).dwg
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DATE PLOTTED: 9 July 2015 10:39 AM BY: BRITTANY HOLZHEIMER



Rev.	Date	Description	Des.	Verif.	Appd.
8	09.07.15	REISSUED FOR DEVELOPMENT APPLICATION	AS	DAC	SCP
7	06.07.15	REISSUED FOR DEVELOPMENT APPLICATION	AS	DAC	SCP
6	10.06.15	REISSUED FOR TENDER	AS	DAC	SCP
5	29.05.15	ISSUED FOR TENDER	AS	DAC	SCP
4	04.05.15	FINAL DEVELOPMENT APPLICATION	AS	DAC	SCP
3	23.04.15	DEVELOPMENT APPLICATION	AS	DAC	SCP
2	20.04.15	ISSUED FOR INFORMATION - WORK IN PROGRESS	AS	DAC	SCP
1	27.03.15	ISSUED FOR INFORMATION - WORK IN PROGRESS	DAC		SCP



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Checked	DAC	Date	09.07.15
Designed	AS	Date	09.07.15
Verified	DAC	Date	09.07.15
Approved	SCP	Date	09.07.15

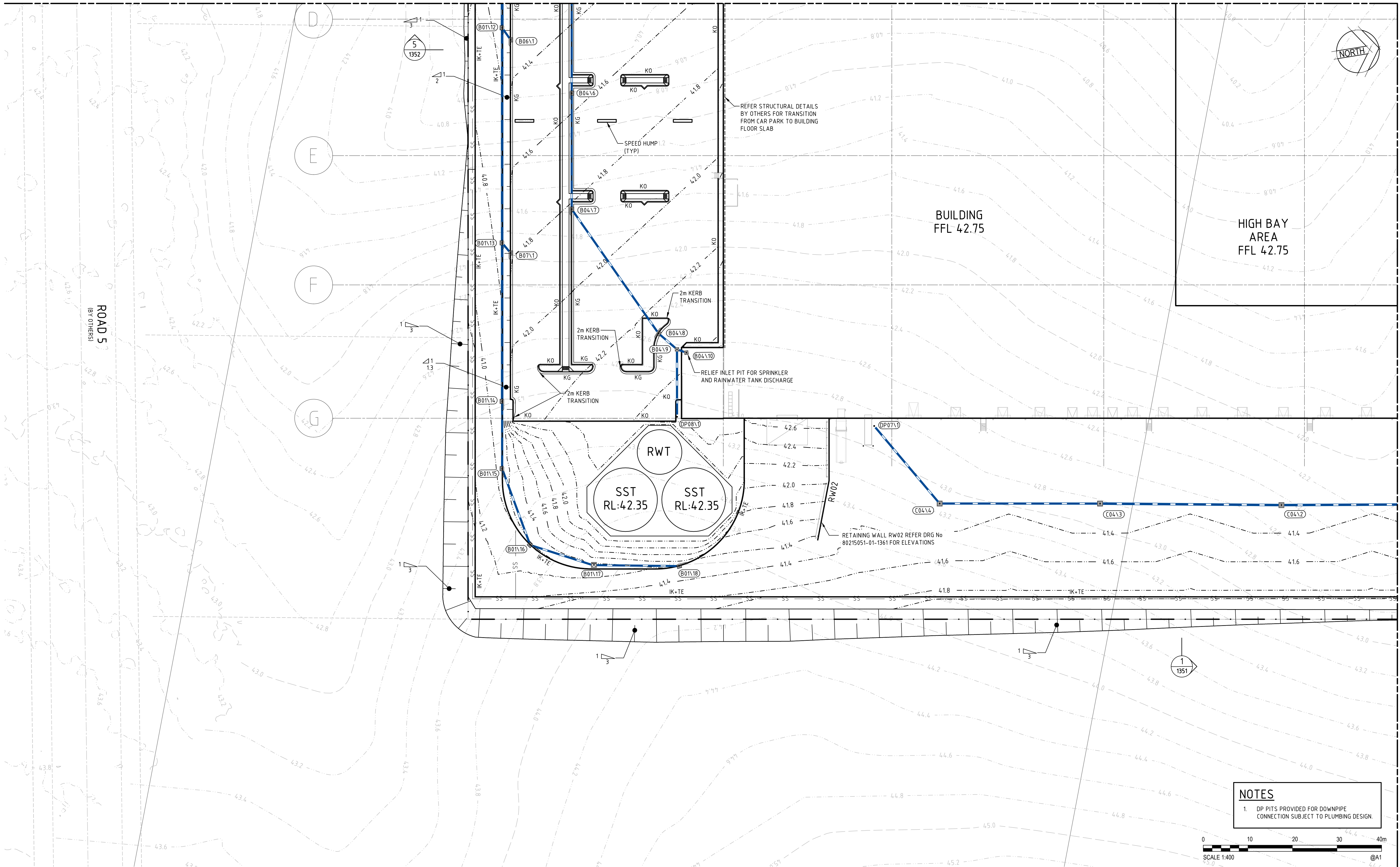
Client	FDC BUILDING
Project	IKEA MFLU
	MARSDEN PARK INDUSTRIAL PRECINCT
	DEVELOPMENT APPLICATION
Title	CIVIL WORKS PLAN
	SHEET 2

Status	FOR APPROVAL		
NOT TO BE USED FOR CONSTRUCTION PURPOSES			
Datum		Scale	Size
AHD		1:400	A1
Drawing Number			Revision
80215051-01-1202			8

DATE PLOTTED: 9 July 2015 10:39 AM BY: BRITTANY HOLZHEIMER

XREFs: Xref-80215051-01-Design Services: Xref-80215051-01-Site Boundary, Xref-80215051-01-Client Logos, Xref-80215051-01-Design Contours 500, Xref-80215051-01-Drainage
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ADJOINS DRAWING 802150511-01-1201



ADJOINS DRAWING 802150511-01-1204

NOTES
1. DP PITS PROVIDED FOR DOWNPIPE CONNECTION SUBJECT TO PLUMBING DESIGN.

0 10 20 30 40m
SCALE 1:400
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8	09.07.15	REISSUED FOR DEVELOPMENT APPLICATION	AS	DAC	SCP
7	06.07.15	REISSUED FOR DEVELOPMENT APPLICATION	AS	DAC	SCP
6	10.06.15	REISSUED FOR TENDER	AS	DAC	SCP
5	29.05.15	ISSUED FOR TENDER	AS	DAC	SCP
4	04.05.15	FINAL DEVELOPMENT APPLICATION	AS	DAC	SCP
3	23.04.15	DEVELOPMENT APPLICATION	AS	DAC	SCP
2	20.04.15	ISSUED FOR INFORMATION - WORK IN PROGRESS	AS	DAC	SCP
1	27.03.15	ISSUED FOR INFORMATION - WORK IN PROGRESS	DAC		
Rev.	Date	Description	Des.	Verif.	Appd.



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Checked	DAC	Date	09.07.15
Designed	AS	Date	09.07.15
Verified	DAC	Date	09.07.15
Approved	SCP	Date	09.07.15

Client	FDC BUILDING
Project	IKEA MFLU MARSDEN PARK INDUSTRIAL PRECINCT DEVELOPMENT APPLICATION
Title	CIVIL WORKS PLAN SHEET 3

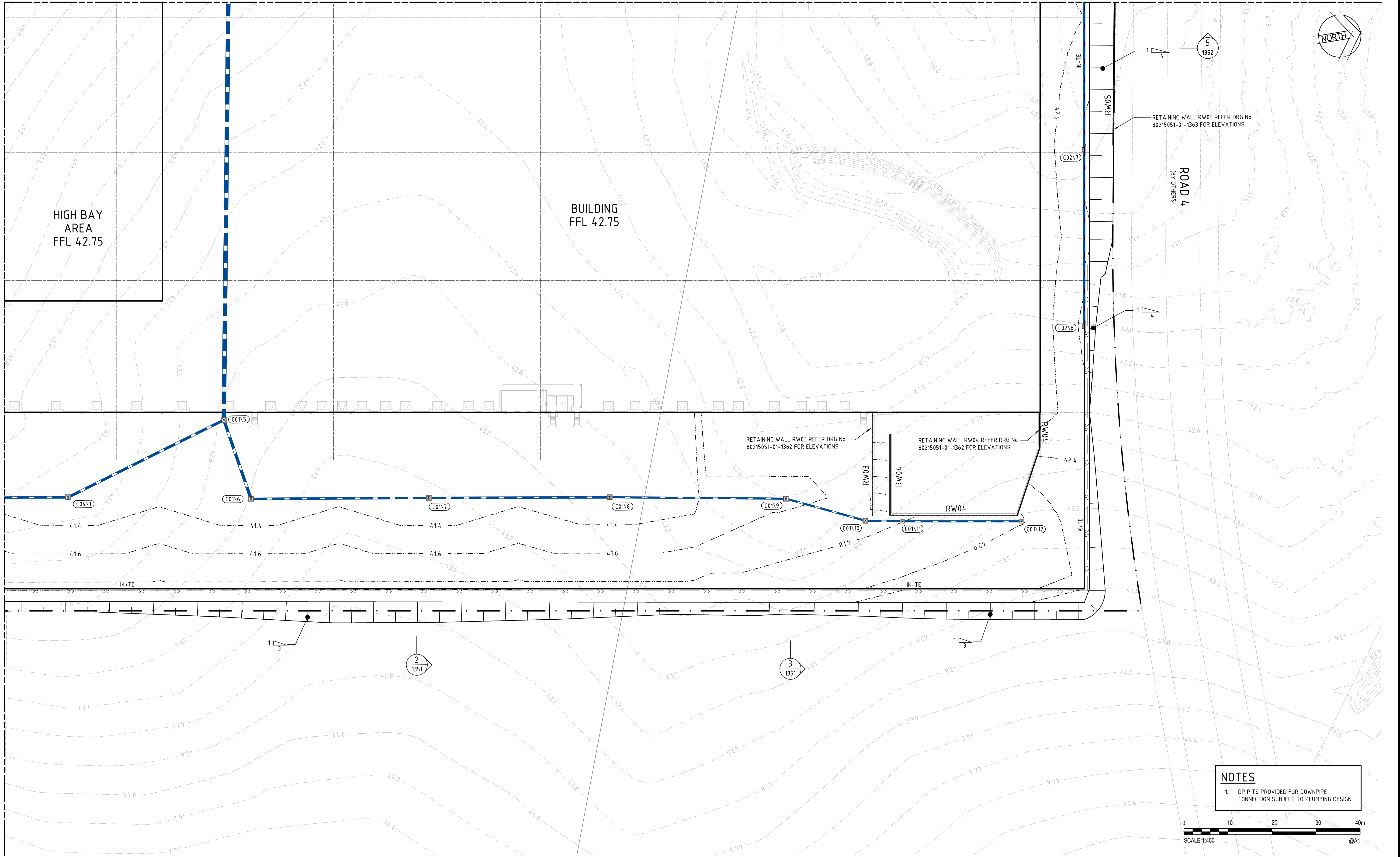
Status	FOR APPROVAL
Datum	AHD
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Size	A1
Drawing Number	80215051-01-1203
Revision	8

XREFs: Xref-80215051-01-Design Services; Xref-80215051-01-Sheet Layout; X-CONT-exa-500; Xref-80215051-01-Sydney Business Park; Xref-80215051-01-Architect; Xref-80215051-01-Client Logos; Xref-80215051-01-Design Contours 500; Xref-80215051-01-Drainage
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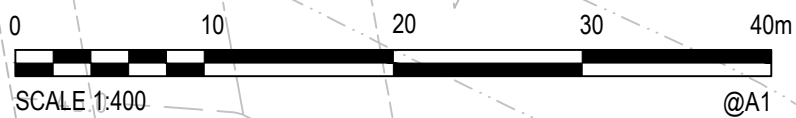
DATE PLOTTED: 9 July 2015 10:39 AM BY: BRITTANY HOLZHEIMER

ADJOINS DRAWING 802150511-01-1203

ADJOINS DRAWING 802150511-01-1202



NOTES
1. DP PITS PROVIDED FOR DOWNPIPE CONNECTION SUBJECT TO PLUMBING DESIGN.



Rev.	Date	Description	Des.	Verif.	Appd.
8	09.07.15	REISSUED FOR DEVELOPMENT APPLICATION	AS	DAC	SCP
7	06.07.15	REISSUED FOR DEVELOPMENT APPLICATION	AS	DAC	SCP
6	10.06.15	REISSUED FOR TENDER	AS	DAC	SCP
5	29.05.15	ISSUED FOR TENDER	AS	DAC	SCP
4	04.05.15	FINAL DEVELOPMENT APPLICATION	AS	DAC	SCP
3	23.04.15	DEVELOPMENT APPLICATION	AS	DAC	SCP
2	20.04.15	ISSUED FOR INFORMATION - WORK IN PROGRESS	AS	DAC	SCP
1	27.03.15	ISSUED FOR INFORMATION - WORK IN PROGRESS	DAC		



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St Leonards, NSW 2055
Tel: 02 9496 7700 Fax: 02 9439 5170
Web: www.cardno.com.au

Drawn BJH	Date 09.07.15
Checked DAC	Date 09.07.15
Designed AS	Date 09.07.15
Verified DAC	Date 09.07.15
Approved SCP	Date 09.07.15

Client FDC BUILDING
Project IKEA MFLU MARSDEN PARK INDUSTRIAL PRECINCT DEVELOPMENT APPLICATION
Title CIVIL WORKS PLAN SHEET 4

Status			
FOR APPROVAL			
NOT TO BE USED FOR CONSTRUCTION PURPOSES			
Datum		Scale	Size
AHD		1:400	A1
Drawing Number			Revision
80215051-01-1204			8



ADJOINS DRAWING 80215051-01-1323



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BJH	09.07.15
Checked	Date
DAC	09.07.15
Designed	Date
AS	09.07.15
Verified	Date
DAC	09.07.15
Approved	
SCP	09.07.15

Client	FDC BUILDING
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Project	IKEA MFLU MARSDEN PARK INDUSTRIAL PRECINCT DEVELOPMENT APPLICATION
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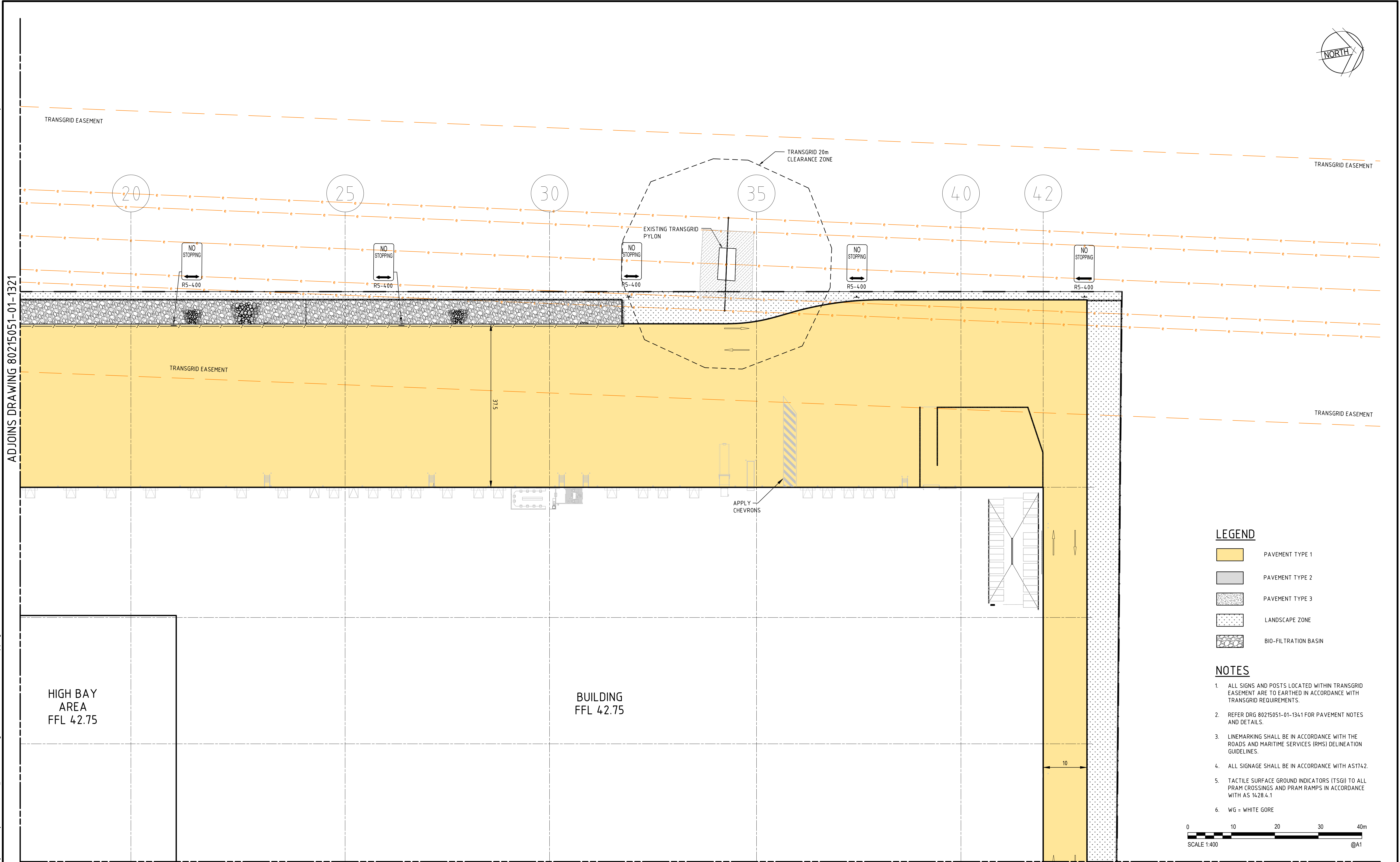
Title	PAVEMENT, SIGNAGE & LINEMARKING PLAN SHEET 1
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Status **FOR APPROVAL**
NOT TO BE USED FOR CONSTRUCTION PURPOSES

Datum		Scale	Size
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Drawing Number			Revision
80215051-01-1321			7

XREFs: Xref-80215051-01-Design, Xref-80215051-01-Existing Services, Xref-80215051-01-Site Layout, Xref-80215051-01-Architect, Xref-80215051-01-Client Logos, Xref-80215051-01-Site Boundary
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DATE PLOTTED: 9 July 2015 10:40 AM BY: BRITTANY HOLZHEIMER



Rev.	Date	Description	Des.	Verif.	Appd.
7	09.07.15	REISSUED FOR DEVELOPMENT APPLICATION	AS	DAC	SCP
6	06.07.15	REISSUED FOR DEVELOPMENT APPLICATION	AS	DAC	SCP
5	10.06.15	REISSUED FOR TENDER	AS	DAC	SCP
4	29.05.15	ISSUED FOR TENDER	AS	DAC	SCP
3	04.05.15	FINAL DEVELOPMENT APPLICATION	AS	DAC	SCP
2	23.04.15	DEVELOPMENT APPLICATION	AS	DAC	SCP
1	20.04.15	ISSUED FOR INFORMATION - WORK IN PROGRESS	AS	SCP	



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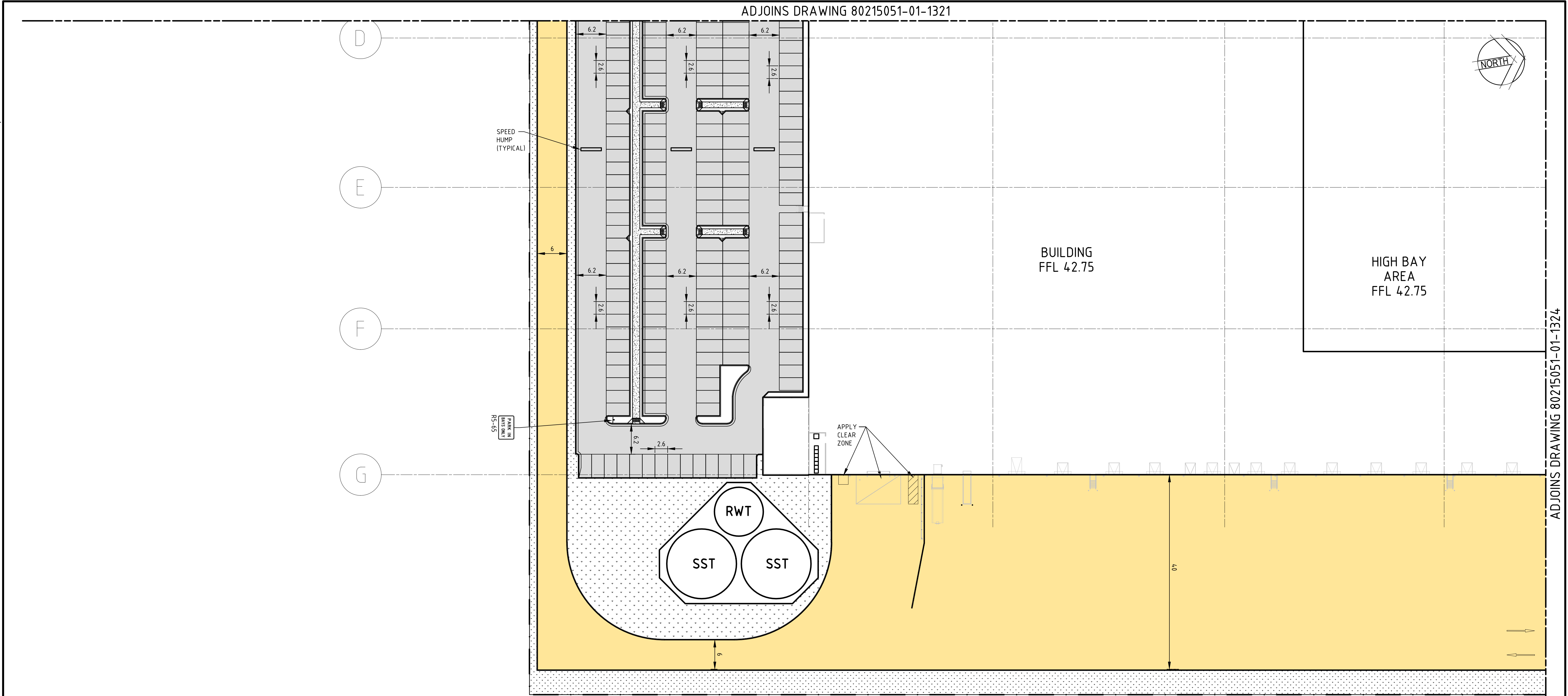
Drawn	BJH	Date	09.07.15
Checked	DAC	Date	09.07.15
Designed	AS	Date	09.07.15
Verified	DAC	Date	09.07.15
Approved	SCP	Date	09.07.15

Client	FDC BUILDING
Project	IKEA MFLU MARSDEN PARK INDUSTRIAL PRECINCT DEVELOPMENT APPLICATION
Title	PAVEMENT, SIGNAGE & LINEMARKING PLAN SHEET 2

Status			
FOR APPROVAL			
NOT TO BE USED FOR CONSTRUCTION PURPOSES			
Datum		Scale	Size
AHD		1:400	A1
Drawing Number			Revision
80215051-01-1322			7

DATE PLOTTED: 9 July 2015 10:40 AM BY: BRITTANY HOLZHEIMER

XREFs: Xref-80215051-01-Design, Xref-80215051-01-Sheet Layout, Xref-80215051-01-Architect, Xref-80215051-01-Client Logos, Xref-80215051-01-Site Boundary
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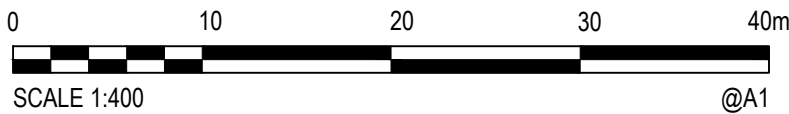
ADJOINS DRAWING 80215051-01-1324

LEGEND

	PAVEMENT TYPE 1
	PAVEMENT TYPE 2
	PAVEMENT TYPE 3
	LANDSCAPE ZONE

NOTES

1. ALL SIGNS AND POSTS LOCATED WITHIN TRANSGRID EASEMENT ARE TO EARTHED IN ACCORDANCE WITH TRANSGRID REQUIREMENTS.
2. REFER DRG 80215051-01-1341 FOR PAVEMENT NOTES AND DETAILS.
3. LINEMARKING SHALL BE IN ACCORDANCE WITH THE ROADS AND MARITIME SERVICES (RMS) DELINEATION GUIDELINES.
4. ALL SIGNAGE SHALL BE IN ACCORDANCE WITH AS1742.
5. TACTILE SURFACE GROUND INDICATORS (TSGI) TO ALL PRAM CROSSINGS AND PRAM RAMPS IN ACCORDANCE WITH AS 1428.4.1
6. WG = WHITE GORE



Rev.	Date	Description	Des.	Verif.	Appd.
7	09.07.15	REISSUED FOR DEVELOPMENT APPLICATION	AS	DAC	SCP
6	06.07.15	REISSUED FOR DEVELOPMENT APPLICATION	AS	DAC	SCP
5	10.06.15	REISSUED FOR TENDER	AS	DAC	SCP
4	29.05.15	ISSUED FOR TENDER	AS	DAC	SCP
3	04.05.15	FINAL DEVELOPMENT APPLICATION	AS	DAC	SCP
2	23.04.15	DEVELOPMENT APPLICATION	AS	DAC	SCP
1	20.04.15	ISSUED FOR INFORMATION - WORK IN PROGRESS	AS	SCP	



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Level 9, The Forum, 203 Pacific Highway
St Leonards, NSW 2005
Tel: 02 9496 7700 Fax: 02 9439 5170
Web: www.cardno.com.au

Drawn	Date	Client
BJH	09.07.15	FDC BUILDING
Checked	Date	
DAC	09.07.15	
Designed	Date	
AS	09.07.15	
Verified	Date	
DAC	09.07.15	
Approved		
SCP	09.07.15	

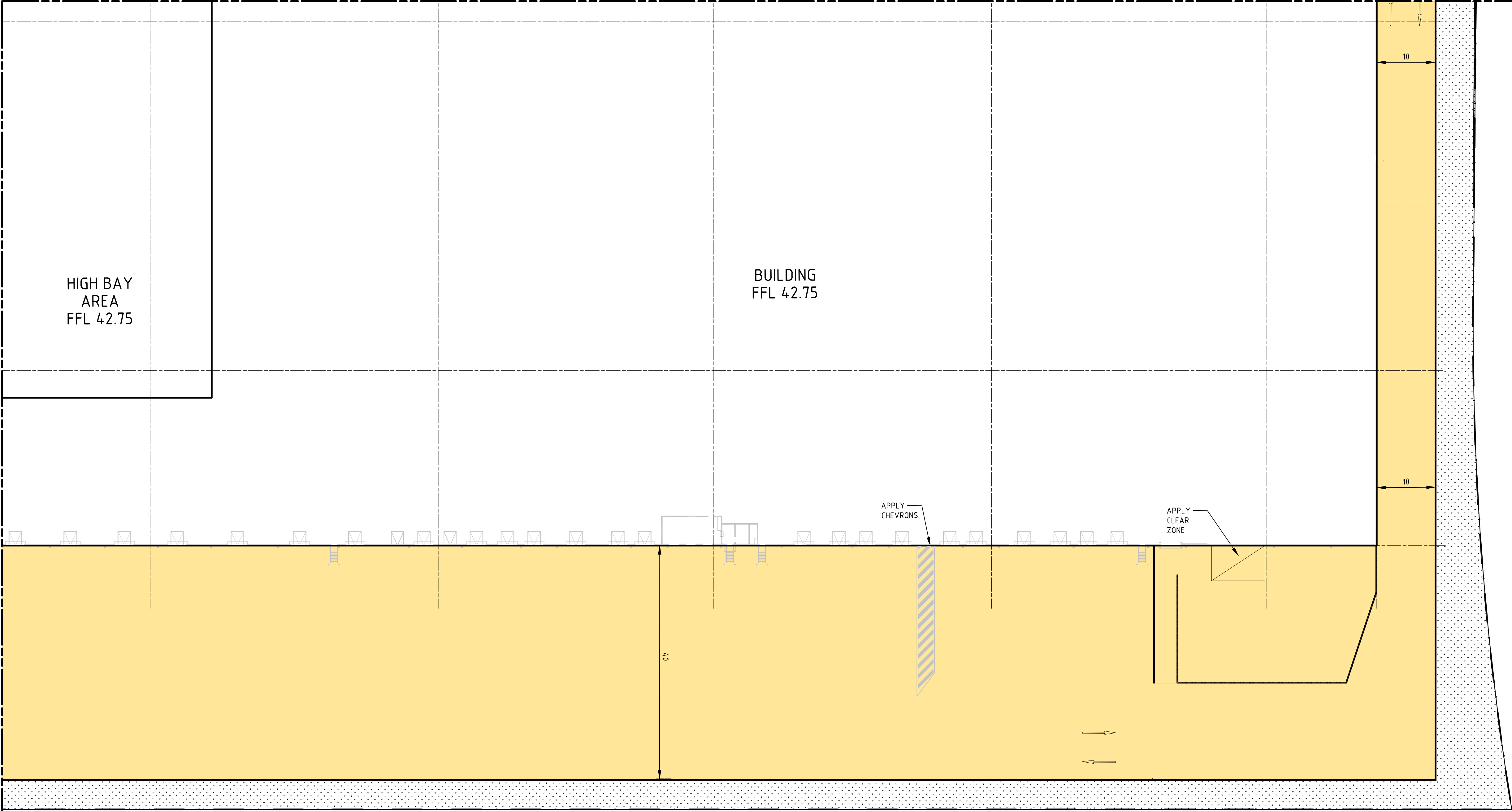
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	MARSDEN PARK INDUSTRIAL PRECINCT
	DEVELOPMENT APPLICATION
Title	PAVEMENT, SIGNAGE & LINEMARKING PLAN
	SHEET 3

Status	FOR APPROVAL		
NOT TO BE USED FOR CONSTRUCTION PURPOSES			
Datum		Scale	Size
AHD		1:400	A1
Drawing Number			Revision
80215051-01-1323			7

DATE PLOTTED: 9 July 2015 10:40 AM BY: BRITTANY HOLZHEIMER

ADJOINS DRAWING 80215051-01-1323

ADJOINS DRAWING 80215051-01-1322

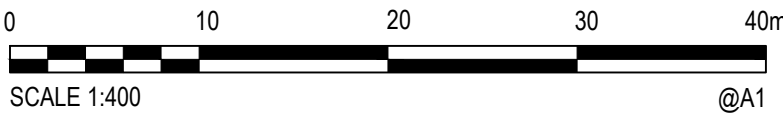


LEGEND

- PAVEMENT TYPE 1
- PAVEMENT TYPE 2
- PAVEMENT TYPE 3
- LANDSCAPE ZONE

NOTES

- ALL SIGNS AND POSTS LOCATED WITHIN TRANSGRID EASEMENT ARE TO EARTHED IN ACCORDANCE WITH TRANSGRID REQUIREMENTS.
- REFER DRG 80215051-01-1341 FOR PAVEMENT NOTES AND DETAILS.
- LINEMARKING SHALL BE IN ACCORDANCE WITH THE ROADS AND MARITIME SERVICES (RMS) DELINEATION GUIDELINES.
- ALL SIGNAGE SHALL BE IN ACCORDANCE WITH AS1742.
- TACTILE SURFACE GROUND INDICATORS (TSGI) TO ALL PRAM CROSSINGS AND PRAM RAMPS IN ACCORDANCE WITH AS 1428.4.1
- WG = WHITE GORE



Rev.	Date	Description	Des.	Verif.	Appd.
7	09.07.15	REISSUED FOR DEVELOPMENT APPLICATION	AS	DAC	SCP
6	06.07.15	REISSUED FOR DEVELOPMENT APPLICATION	AS	DAC	SCP
5	10.06.15	REISSUED FOR TENDER	AS	DAC	SCP
4	29.05.15	ISSUED FOR TENDER	AS	DAC	SCP
3	04.05.15	FINAL DEVELOPMENT APPLICATION	AS	DAC	SCP
2	23.04.15	DEVELOPMENT APPLICATION	AS	DAC	SCP
1	20.04.15	ISSUED FOR INFORMATION - WORK IN PROGRESS	AS	SCP	



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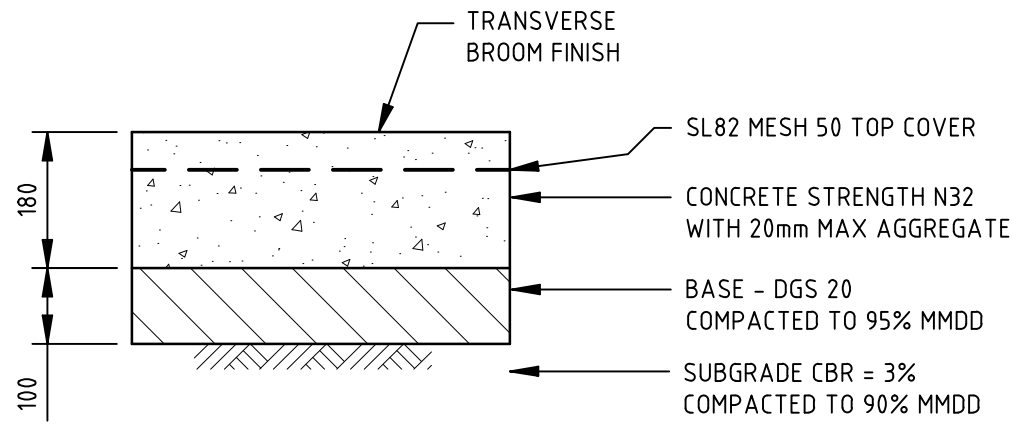
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St Leonards, NSW 2005
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Web: www.cardno.com.au

Drawn	Date	Client
BJH	09.07.15	FDC BUILDING
Checked	Date	Project
DAC	09.07.15	IKEA MFLU
Designed	Date	MARSDEN PARK INDUSTRIAL PRECINCT
AS	09.07.15	DEVELOPMENT APPLICATION
Verified	Date	Title
DAC	09.07.15	PAVEMENT, SIGNAGE & LINEMARKING PLAN
Approved		SHEET 4
SCP	09.07.15	

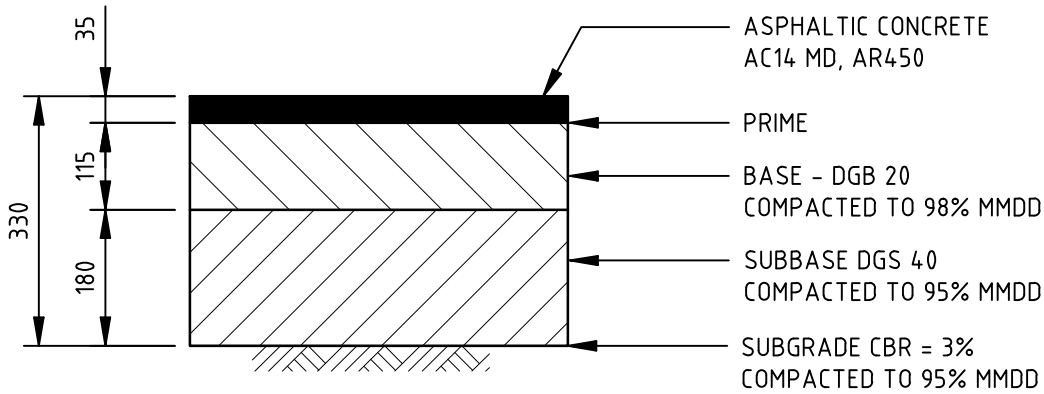
Date	Client
09.07.15	FDC BUILDING
Date	Project
09.07.15	IKEA MFLU
Date	MARSDEN PARK INDUSTRIAL PRECINCT
09.07.15	DEVELOPMENT APPLICATION
Date	Title
09.07.15	PAVEMENT, SIGNAGE & LINEMARKING PLAN
	SHEET 4

Status			
FOR APPROVAL			
NOT TO BE USED FOR CONSTRUCTION PURPOSES			
Datum		Scale	Size
AHD		1:400	A1
Drawing Number			Revision
80215051-01-1324			7



PAVEMENT TYPE 1
CONCRETE ENTRY AND CIRCULATION ROAD

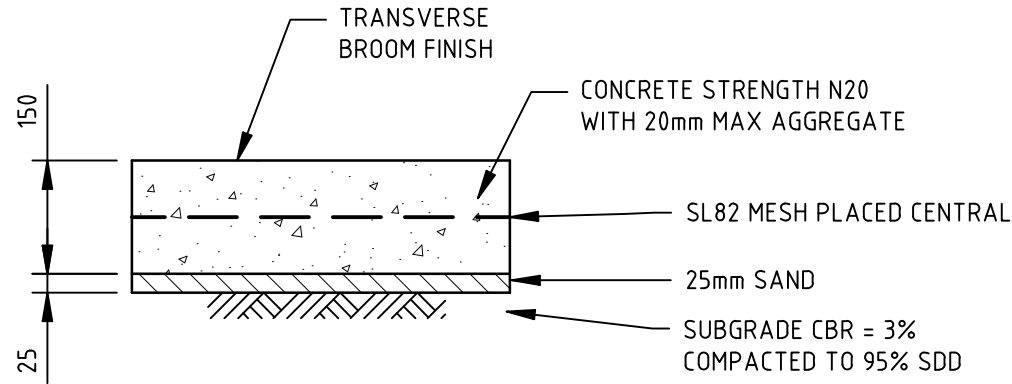
SCALE 1:10
DESIGN TRAFFIC LOADING = 1x10⁵ ESA
(DESIGN PROCEDURE: AUSTRROADS)



PAVEMENT TYPE 2

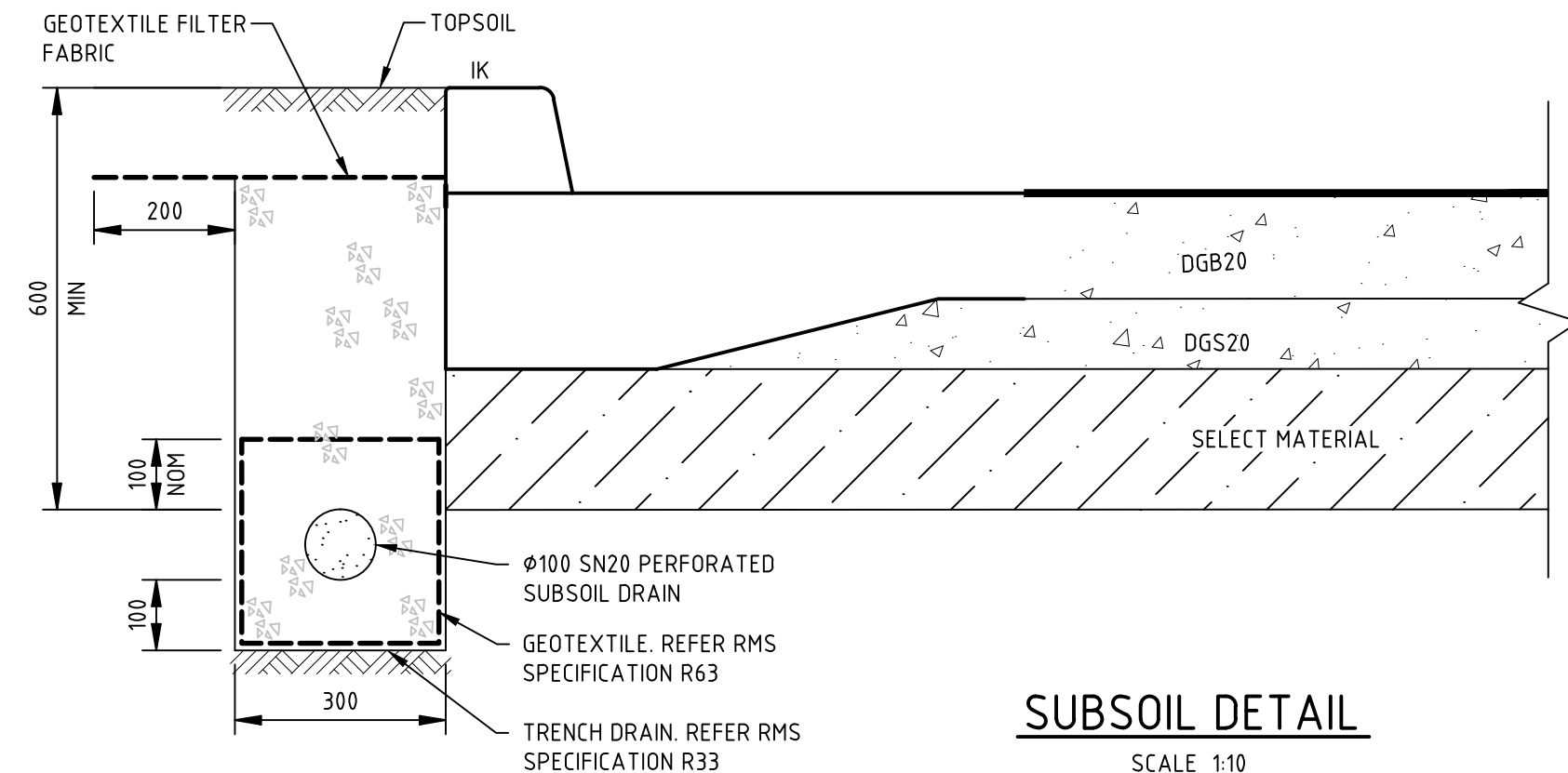
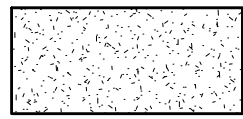
CARPARKS

SCALE 1:10
DESIGN TRAFFIC LOADING = 1x10⁵ ESA
(DESIGN PROCEDURE: AUSTRROADS)



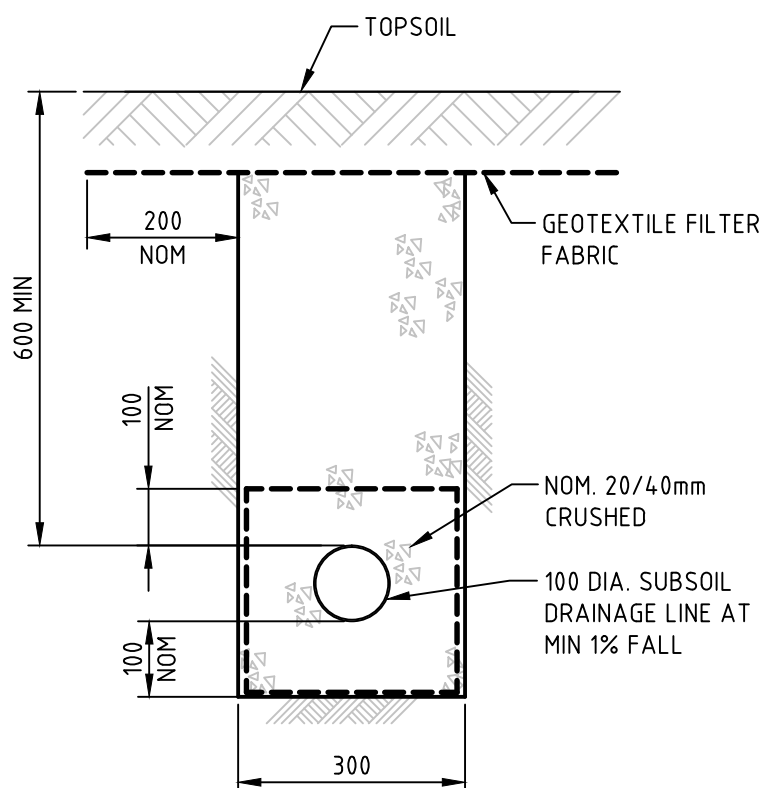
PAVEMENT TYPE 3
CONCRETE ISLANDS/FOOTPATHS

SCALE 1:10



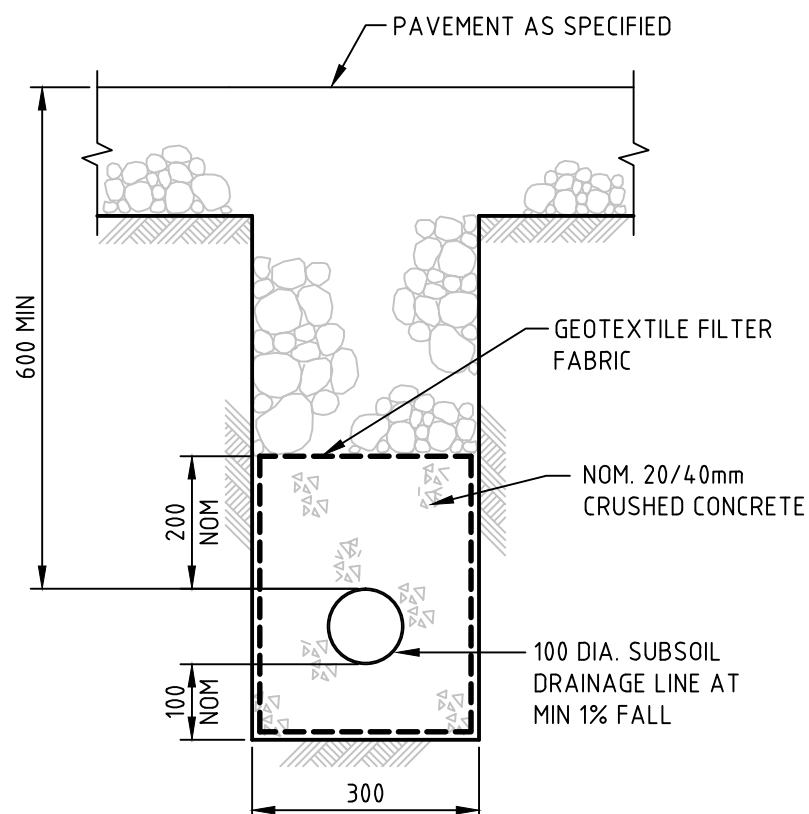
SUBSOIL DETAIL

SCALE 1:10



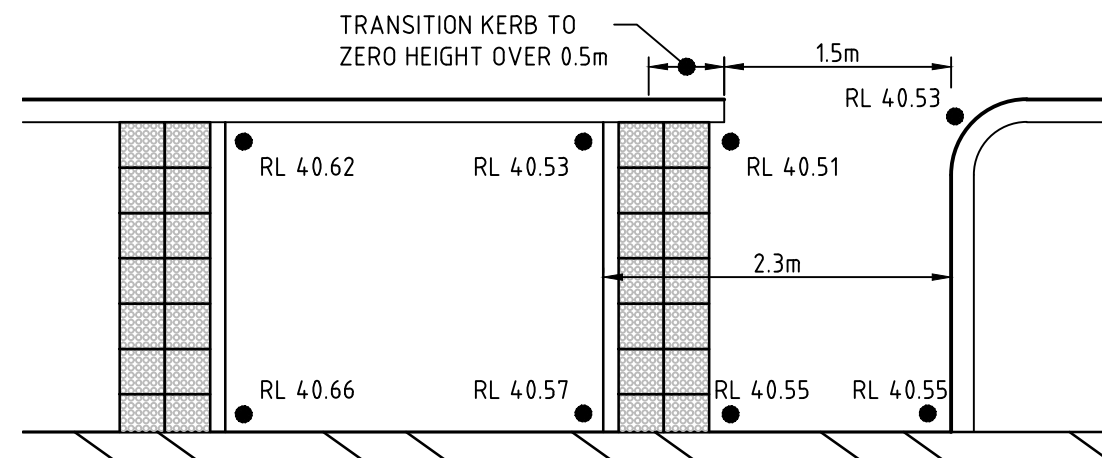
SUBSOIL IN LANDSCAPED AREAS

SCALE 1:10



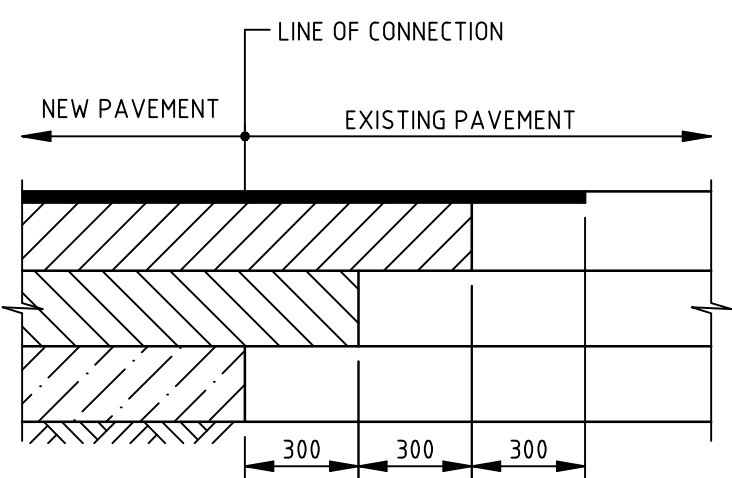
SUBSOIL IN PAVED AREAS

SCALE 1:10



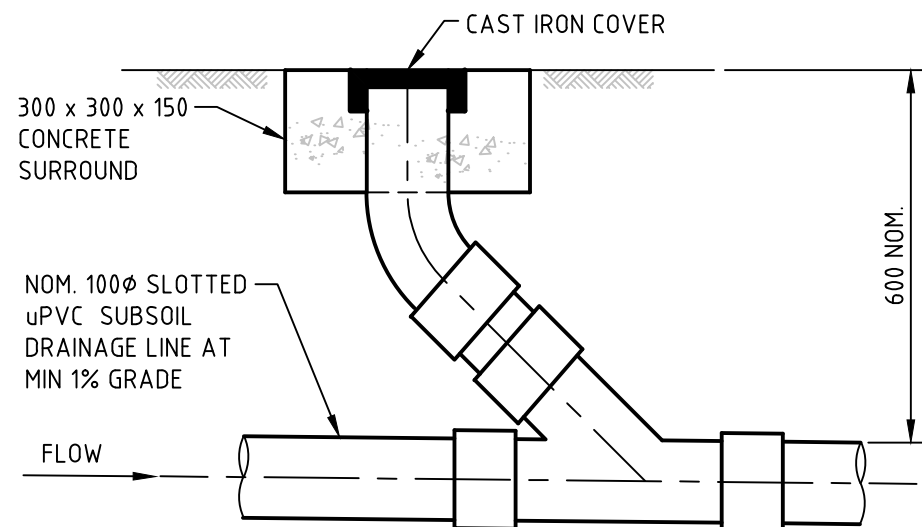
DETAIL

SCALE 1:50



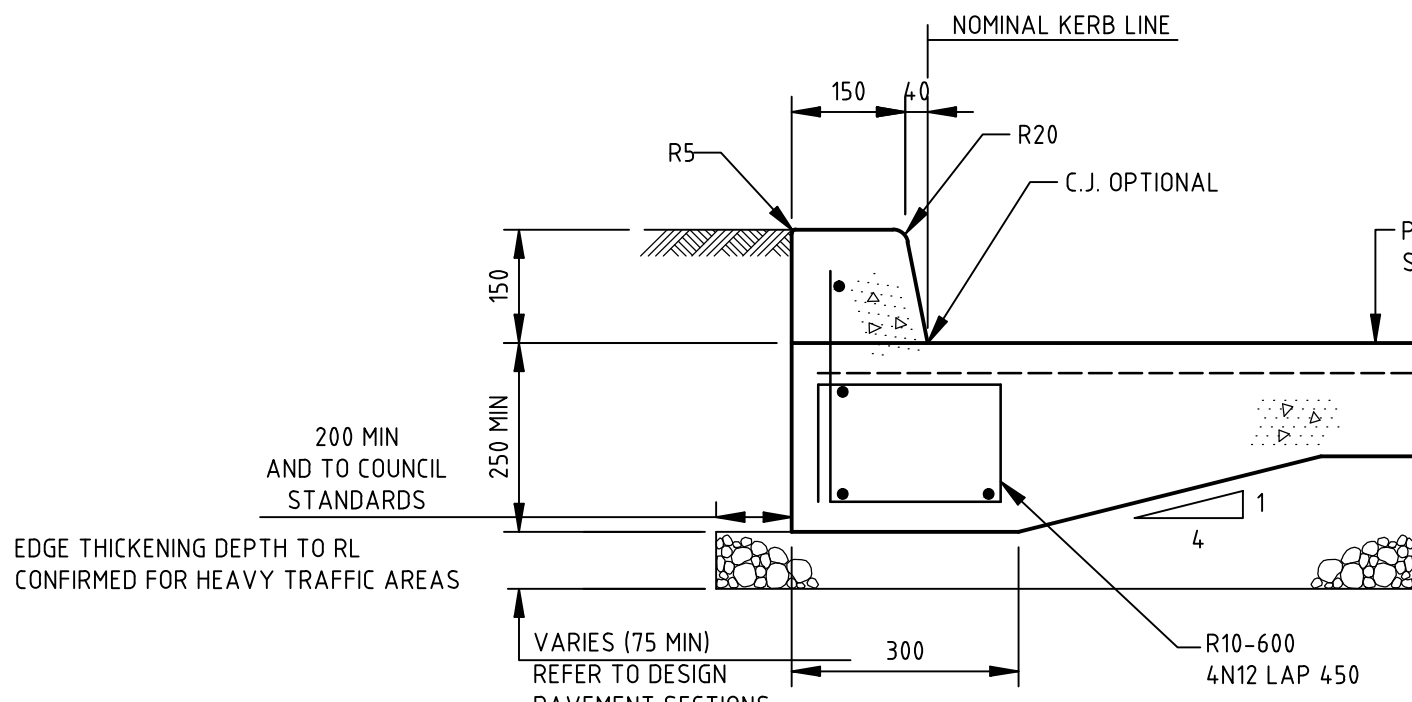
PAVEMENT JOINT DETAIL

SCALE 1:20



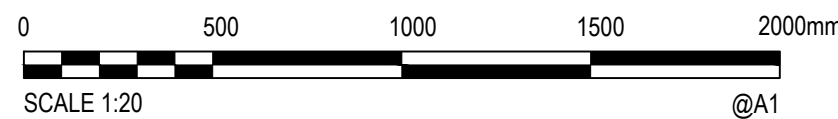
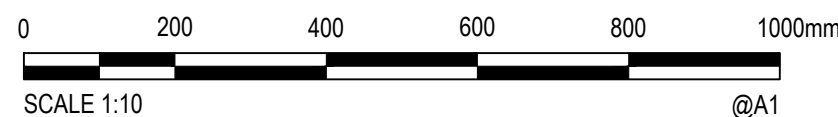
INTERMEDIATE RISER

SCALE 1:10



INTEGRAL KERB WITH THICKENED EDGE (IK+TE)

SCALE 1:10



Rev.	Date	Description	Des.	Verif.	Appd.
6	06.07.15	REISSUED FOR DEVELOPMENT APPLICATION	AS	DAC	SCP
5	10.06.15	REISSUED FOR TENDER	AS	DAC	SCP
4	29.05.15	ISSUED FOR TENDER	AS	DAC	SCP
3	04.05.15	FINAL DEVELOPMENT APPLICATION	AS	DAC	SCP
2	23.04.15	DEVELOPMENT APPLICATION	AS	DAC	SCP
1	20.04.15	ISSUED FOR INFORMATION - WORK IN PROGRESS	AS	SCP	SCP



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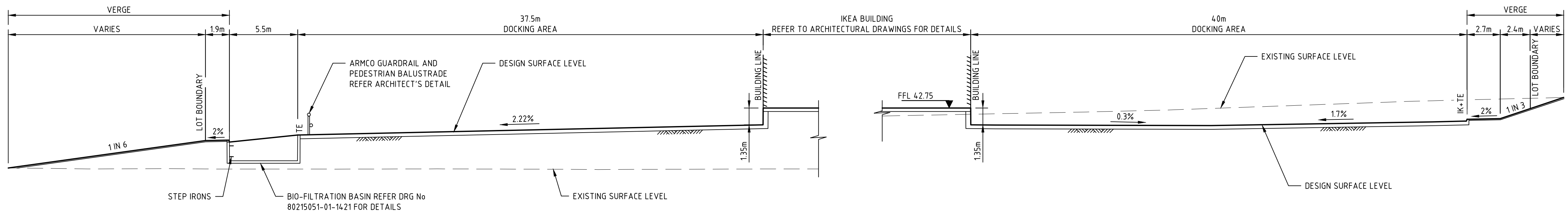


Drawn	BJH	Date	06.07.15
Checked	DAC	Date	06.07.15
Designed	AS	Date	06.07.15
Verified	DAC	Date	06.07.15
Approved	SCP	Date	06.07.15

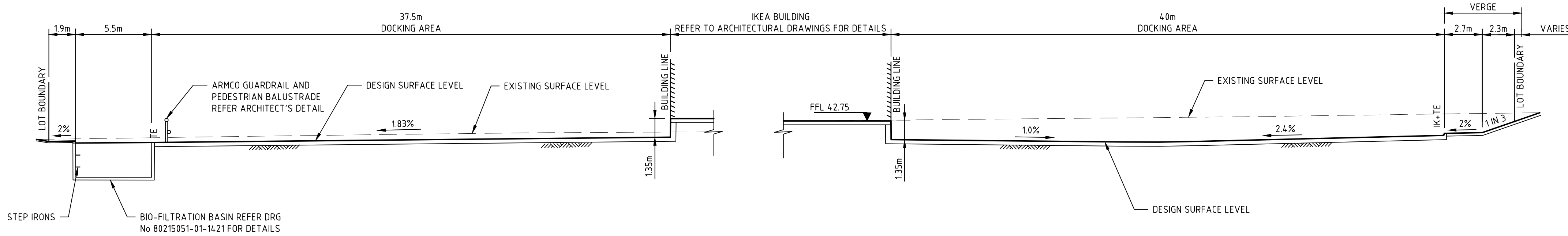
Client	FDC BUILDING
Project	IKEA MFLU MARSDEN PARK INDUSTRIAL PRECINCT DEVELOPMENT APPLICATION
Title	CIVIL WORKS DETAILS

Status	FOR APPROVAL
Datum	AHD
Scale	AS SHOWN
Size	A1
Drawing Number	80215051-01-1341
Revision	6

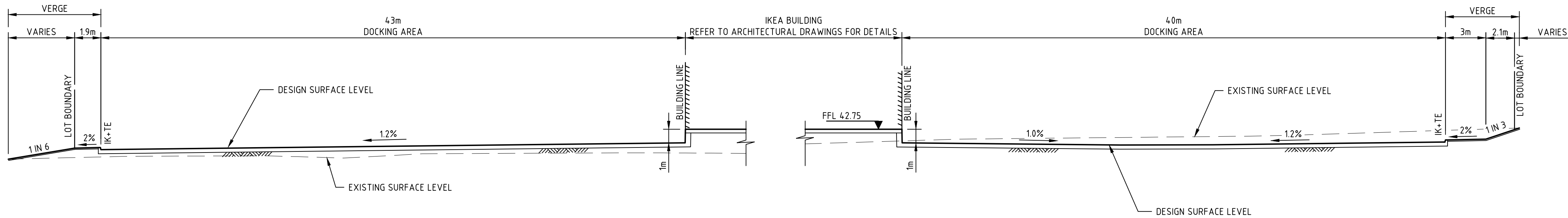
DATE PLOTTED 6 July 2015 3:24 PM BY: BRITTANY HOLZHEIMER



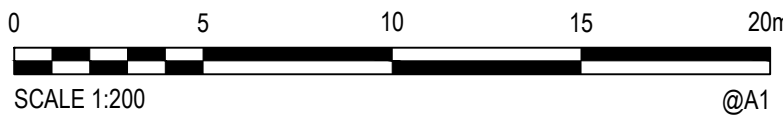
SECTION 1
SCALE 1:200
1201/03



SECTION 2
SCALE 1:200
1202/04



SECTION 3
SCALE 1:200
1202/04



Rev.	Date	Description	Des.	Verif.	Appd.
6	06.07.15	REISSUED FOR DEVELOPMENT APPLICATION	AS	DAC	SCP
5	10.06.15	REISSUED FOR TENDER	AS	DAC	SCP
4	29.05.15	ISSUED FOR TENDER	AS	DAC	SCP
3	04.05.15	FINAL DEVELOPMENT APPLICATION	AS	DAC	SCP
2	23.04.15	DEVELOPMENT APPLICATION	AS	DAC	SCP
1	20.04.15	ISSUED FOR INFORMATION - WORK IN PROGRESS	AS	SCP	SCP



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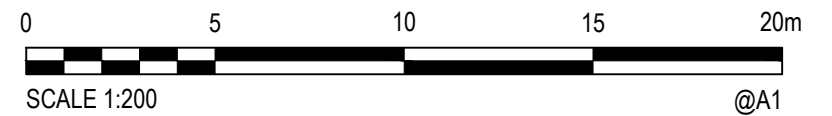
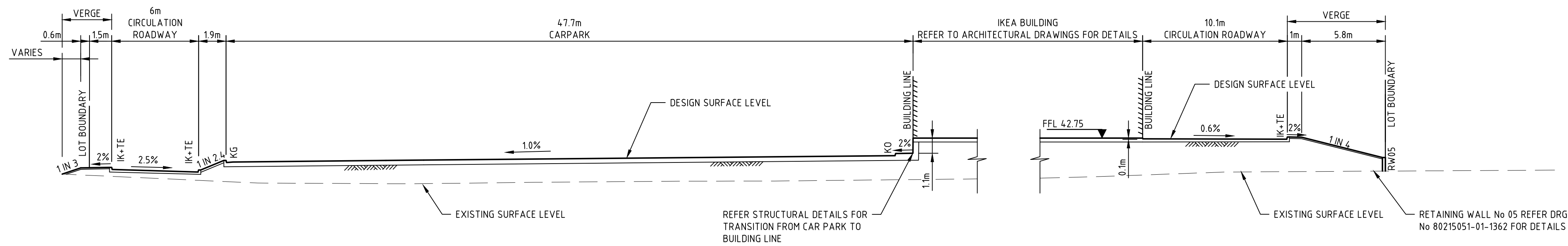
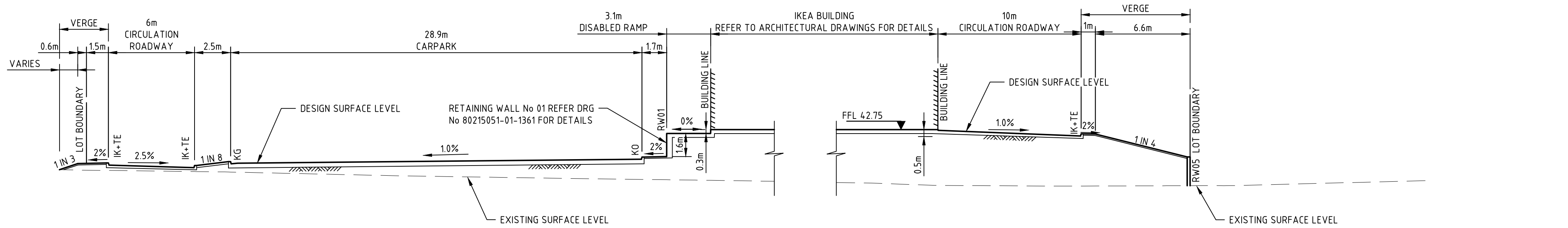


Drawn	BJH	Date	06.07.15
Checked	DAC	Date	06.07.15
Designed	AS	Date	06.07.15
Verified	DAC	Date	06.07.15
Approved	SCP	Date	06.07.15

Client	FDC BUILDING
Project	IKEA MFLU MARSDEN PARK INDUSTRIAL PRECINCT DEVELOPMENT APPLICATION
Title	SITE SECTIONS SHEET 1

Status	FOR APPROVAL
Datum	AHD
Scale	1:200
Size	A1
Drawing Number	80215051-01-1351
Revision	6

DATE PLOTTED: 6 July 2015 3:24 PM BY: BRITTANY HOLZHEIMER



Rev.	Date	Description	Des.	Verif.	Appd.
6	06.07.15	REISSUED FOR DEVELOPMENT APPLICATION	AS	DAC	SCP
5	10.06.15	REISSUED FOR TENDER	AS	DAC	SCP
4	29.05.15	ISSUED FOR TENDER	AS	DAC	SCP
3	04.05.15	FINAL DEVELOPMENT APPLICATION	AS	DAC	SCP
2	23.04.15	DEVELOPMENT APPLICATION	AS	DAC	SCP
1	20.04.15	ISSUED FOR INFORMATION - WORK IN PROGRESS	AS	SCP	SCP



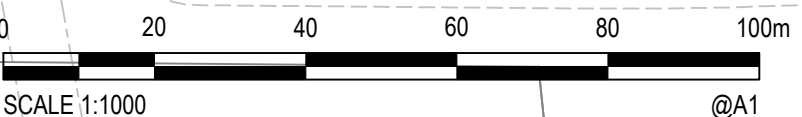
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Drawn	BJH	Date	06.07.15
Checked	DAC	Date	06.07.15
Designed	AS	Date	06.07.15
Verified	DAC	Date	06.07.15
Approved	SCP	Date	06.07.15

Client	FDC BUILDING
Project	IKEA MFLU MARSDEN PARK INDUSTRIAL PRECINCT DEVELOPMENT APPLICATION
Title	SITE SECTIONS SHEET 2

Status	FOR APPROVAL		
NOT TO BE USED FOR CONSTRUCTION PURPOSES			
Datum		Scale	Size
AHD		1:200	A1
Drawing Number			Revision
80215051-01-1352			6



3	06.07.15	REISSUED FOR DEVELOPMENT APPLICATION		AS	DAC	SCP
2	10.06.15	REISSUED FOR TENDER		AS	DAC	SCP
1	29.05.15	ISSUED FOR TENDER		AS	DAC	SCP
Rev.	Date	Description		Des.	Verif.	Appd.



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Drawn	Date
BJH	06.07.15
Checked	Date
DAC	06.07.15
Designed	Date
AS	06.07.15
Verified	Date
DAC	06.07.15
Approved	
SCP	06.07.15

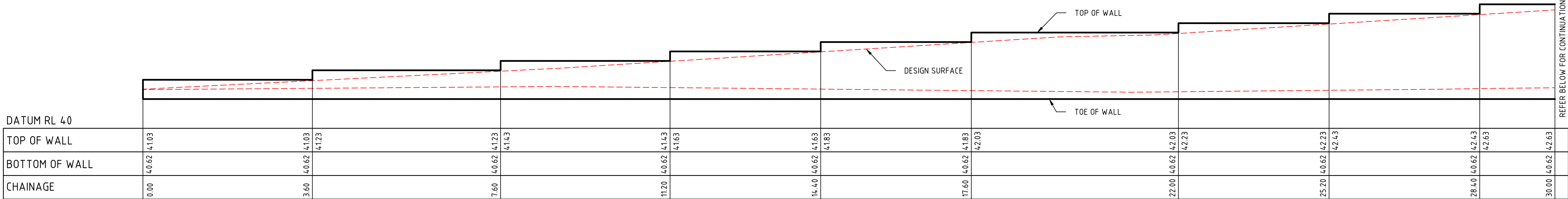
Client	FDC BUILDING
Project	IKEA MFLU MARSDEN PARK INDUSTRIAL PRECINCT DEVELOPMENT APPLICATION

RETAINING WALL LOCALITY PLAN

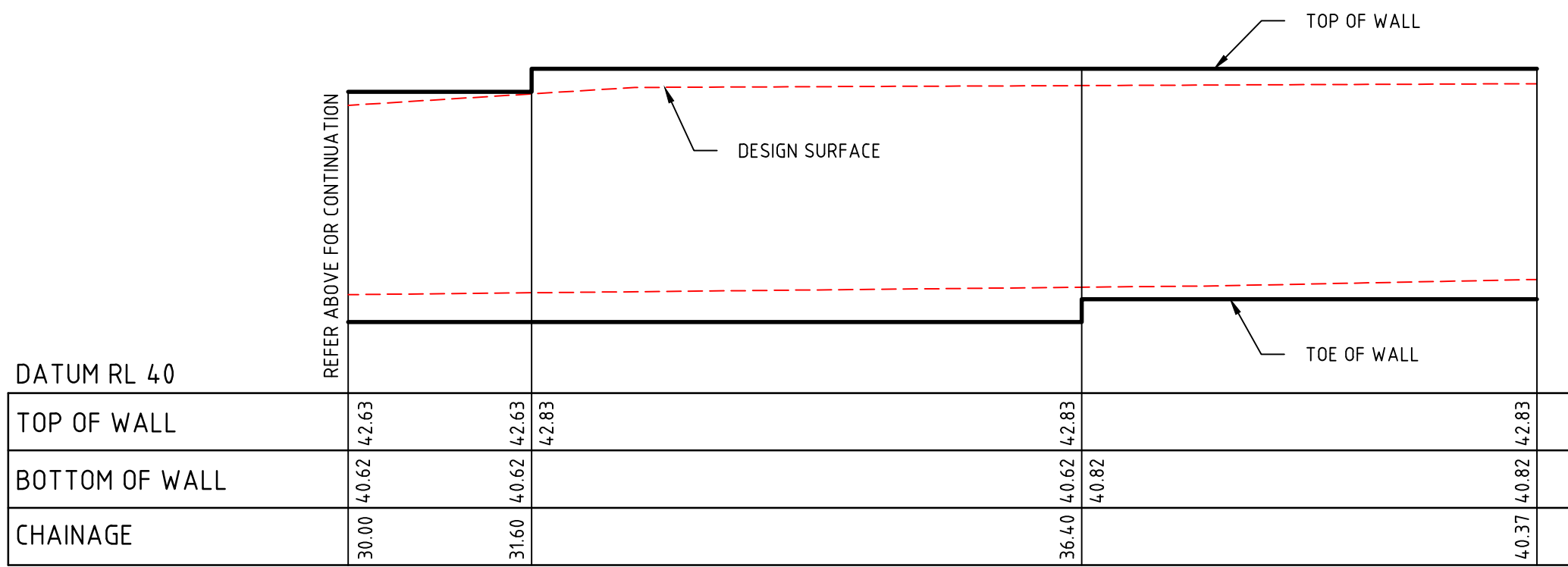
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Datum		Scale			
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Drawing Number					Revision
80215051-01-1360					3

DATE PLOTTED 6 July 2015 3:25 PM BY : BRITTANY HOLZHEIMER

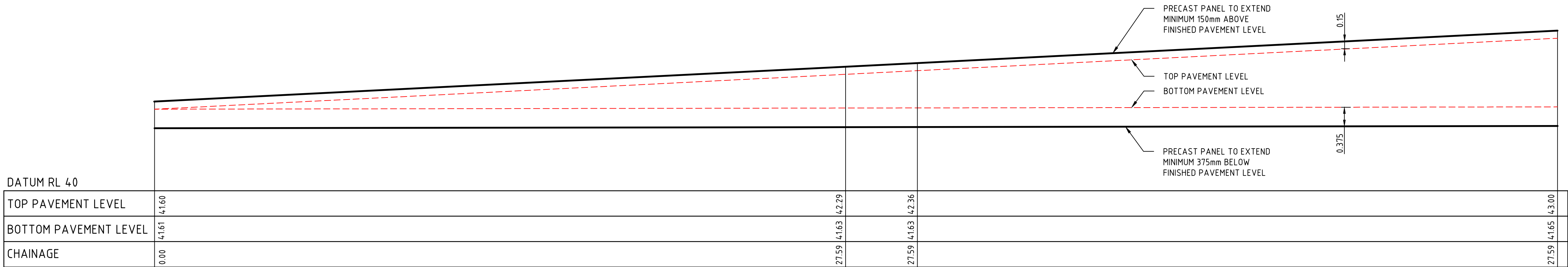
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CAD File: \\cardno-corp\global\AU\NSW\Drawings\Build\80215051-01-1361-1366-DWG(0).dwg



RETAINING WALL 1 (190 BLOCKWORK)
SCALE 1:50



RETAINING WALL 1 (190 BLOCKWORK)
SCALE 1:50



RETAINING WALL 2 (PRECAST PANEL)
SCALE 1:50

NOTE:
REFER STRUCTURAL ENGINEER'S
DRAWING FOR DETAILS



Rev.	Date	Description	Des.	Verif.	Appd.
6	06.07.15	REISSUED FOR DEVELOPMENT APPLICATION	AS	DAC	SCP
5	10.06.15	REISSUED FOR TENDER	AS	DAC	SCP
4	29.05.15	ISSUED FOR TENDER	AS	DAC	SCP
3	04.05.15	FINAL DEVELOPMENT APPLICATION	AS	DAC	SCP
2	04.05.15	FINAL DEVELOPMENT APPLICATION	AS	DAC	SCP
1	20.04.15	ISSUED FOR INFORMATION - WORK IN PROGRESS	AS	SCP	



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Web: www.cardno.com.au

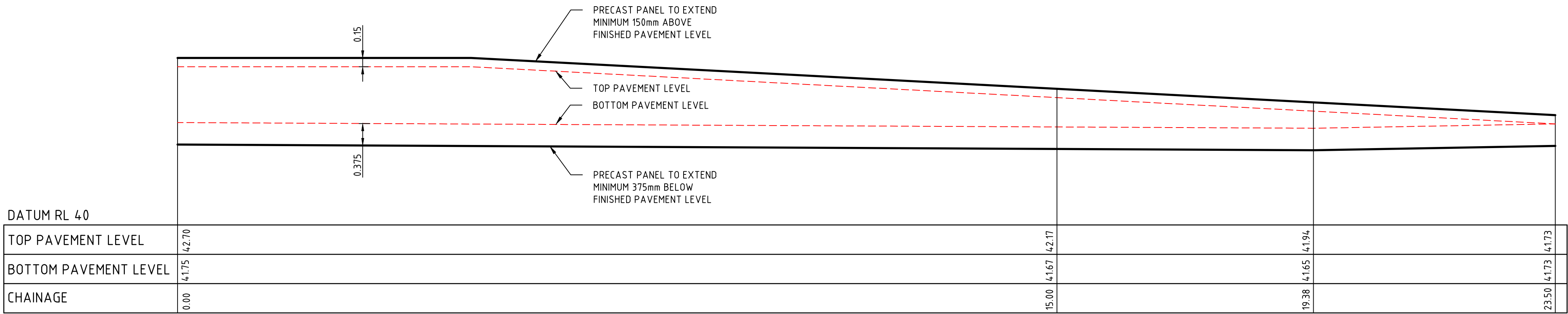
Drawn	BJH	Date	06.07.15
Checked	DAC	Date	06.07.15
Designed	AS	Date	06.07.15
Verified	DAC	Date	06.07.15
Approved	SCP	Date	06.07.15

Client	FDC BUILDING
Project	IKEA MFLU MARSDEN PARK INDUSTRIAL PRECINCT DEVELOPMENT APPLICATION
Title	RETAINING WALL ELEVATIONS SHEET 1

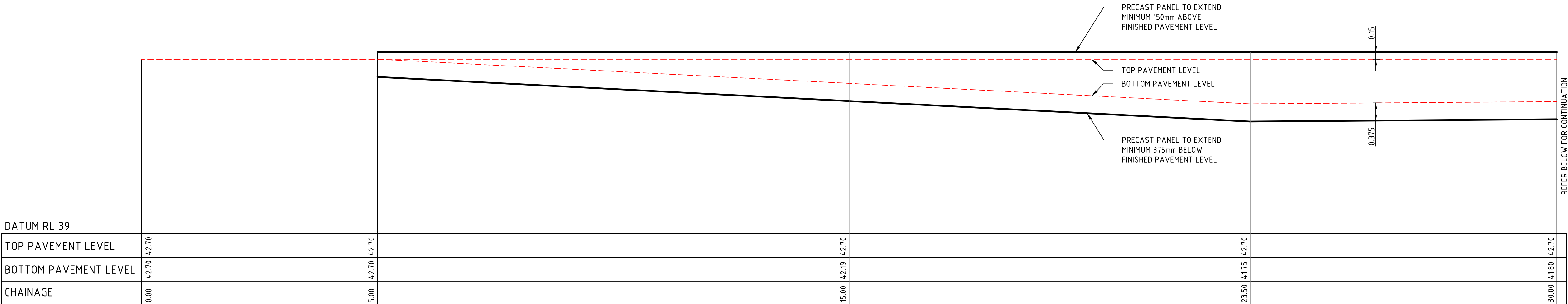
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FOR APPROVAL			
NOT TO BE USED FOR CONSTRUCTION PURPOSES			
Datum		Scale	Size
AHD		1:50	A1
Drawing Number			Revision
80215051-01-1361			6

DATE PLOTTED 6 July 2015 3:25 PM BY: BRITTANY HOLZHEIMER

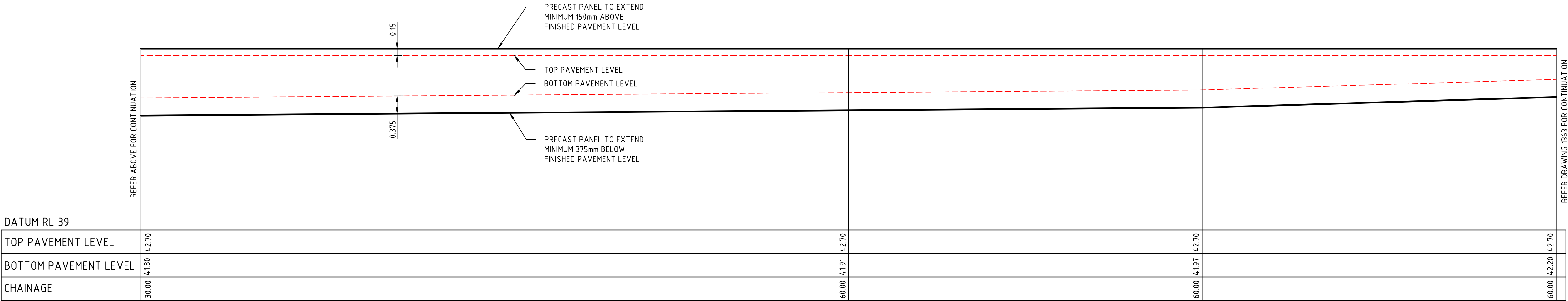
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CAD File: \\cardno-corp\global\AU\NSW\Drawings\Build\80215051-01-1361-1366-DWG(6).dwg



RETAINING WALL 3 (PRECAST PANEL)
SCALE 1:50



RETAINING WALL 4 (PRECAST PANEL)
SCALE 1:50



RETAINING WALL 4 (PRECAST PANEL)
SCALE 1:50

NOTE:
REFER STRUCTURAL ENGINEER'S
DRAWING FOR DETAILS



Rev.	Date	Description	Des.	Verif.	Appd.
6	06.07.15	REISSUED FOR DEVELOPMENT APPLICATION	AS	DAC	SCP
5	10.06.15	REISSUED FOR TENDER	AS	DAC	SCP
4	29.05.15	ISSUED FOR TENDER	AS	DAC	SCP
3	04.05.15	FINAL DEVELOPMENT APPLICATION	AS	DAC	SCP
2	04.05.15	FINAL DEVELOPMENT APPLICATION	AS	DAC	SCP
1	20.04.15	ISSUED FOR INFORMATION - WORK IN PROGRESS	AS	SCP	SCP



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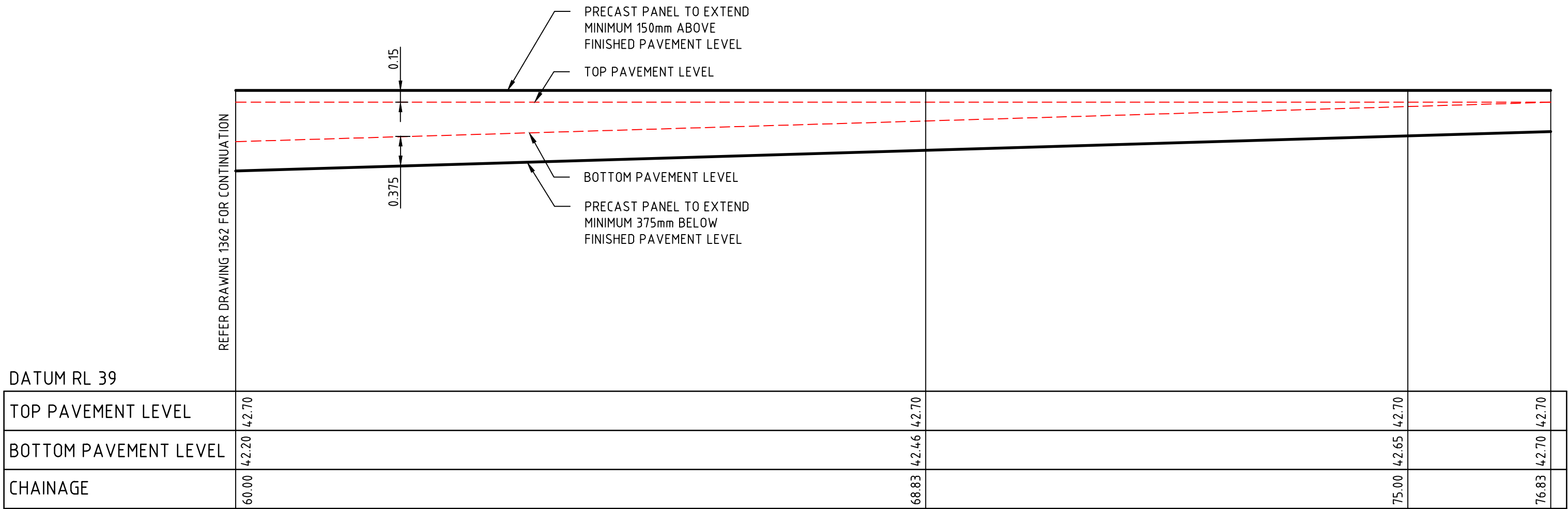


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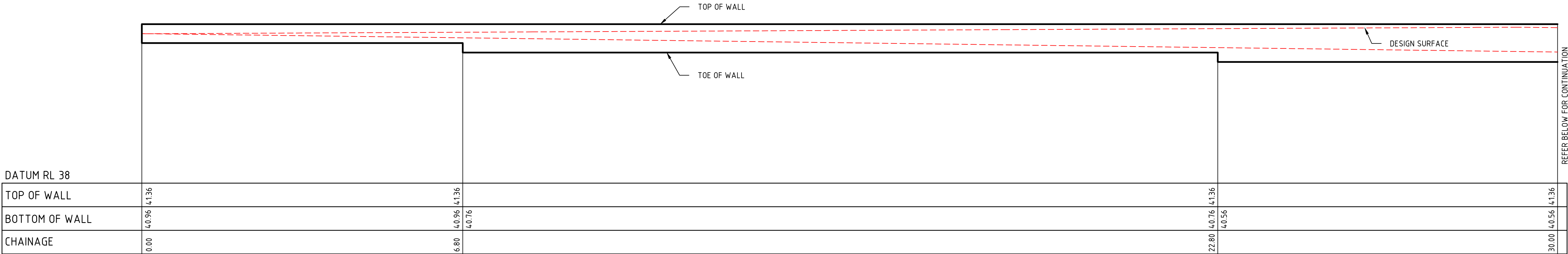
Drawn BJH 06.07.15	Date 06.07.15	Client FDC BUILDING
Checked DAC 06.07.15	Date 06.07.15	Project IKEA MFLU MARSDEN PARK INDUSTRIAL PRECINCT DEVELOPMENT APPLICATION
Designed AS 06.07.15	Date 06.07.15	Status FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION PURPOSES
Verified DAC 06.07.15	Date 06.07.15	Datum AHD
Approved SCP 06.07.15	Title RETAINING WALL ELEVATIONS SHEET 2	Scale 1:50
		Size A1
		Drawing Number 80215051-01-1362
		Revision 6

DATE PLOTTED 6 July 2015 3:25 PM BY : BRITTANY HOLZHEIMER

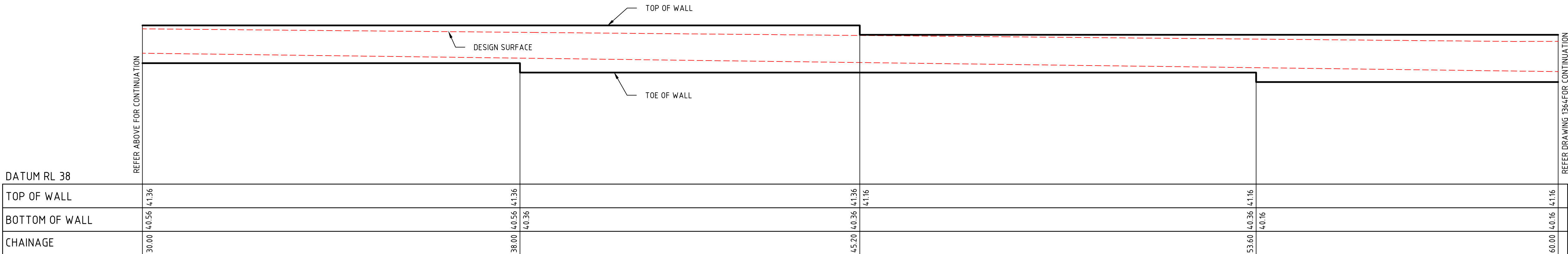
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CAD File: \\cardno-corporate\au\NSW\Drawings\Build\80215051-01-1361-1366-DWG(6).dwg



RETAINING WALL 4 (PRECAST PANEL)
SCALE 1:50



RETAINING WALL 5 (190 BLOCKWORK)
SCALE 1:50



RETAINING WALL 5 (190 BLOCKWORK)
SCALE 1:50

NOTE:
REFER STRUCTURAL ENGINEER'S
DRAWING FOR DETAILS



6	06.07.15	REISSUED FOR DEVELOPMENT APPLICATION	AS	DAC	SCP
5	10.06.15	REISSUED FOR TENDER	AS	DAC	SCP
4	29.05.15	ISSUED FOR TENDER	AS	DAC	SCP
3	04.05.15	FINAL DEVELOPMENT APPLICATION	AS	DAC	SCP
2	04.05.15	FINAL DEVELOPMENT APPLICATION	AS	DAC	SCP
1	20.04.15	ISSUED FOR INFORMATION - WORK IN PROGRESS	AS	SCP	
Rev.	Date	Description	Des.	Verif.	Appd.



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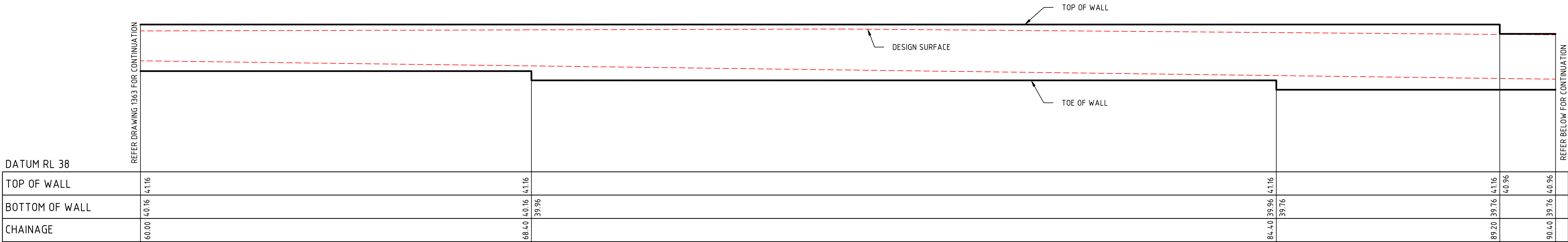
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Drawn	Date
BJH	06.07.15
Checked	Date
DAC	06.07.15
Designed	Date
AS	06.07.15
Verified	Date
DAC	06.07.15
Approved	
SCP	06.07.15

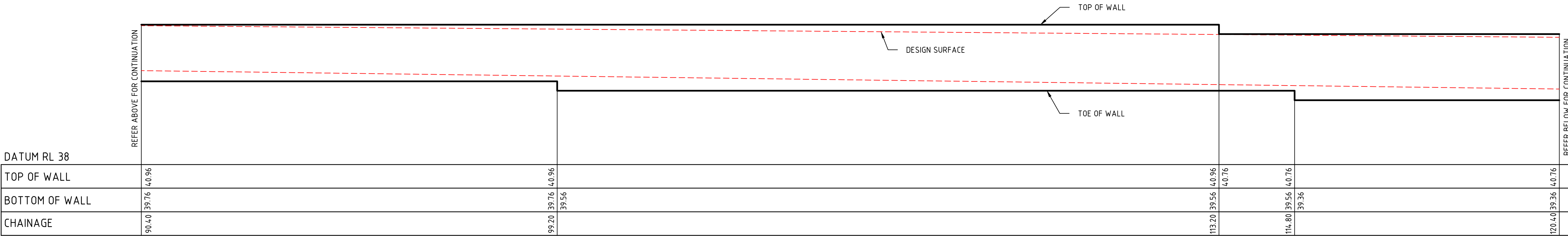
Client	FDC BUILDING
Project	IKEA MFLU MARSDEN PARK INDUSTRIAL PRECINCT DEVELOPMENT APPLICATION
Title	RETAINING WALL ELEVATIONS SHEET 3

Status	FOR APPROVAL
Datum	AHD
Scale	1:50
Size	A1
Drawing Number	80215051-01-1363
Revision	6



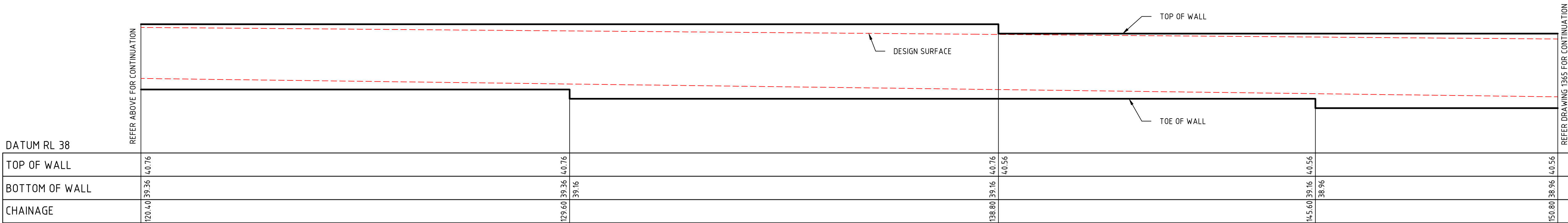
RETAINING WALL 5 (190 BLOCKWORK)

SCALE 1:50



RETAINING WALL 5 (190 BLOCKWORK)

SCALE 1:50



RETAINING WALL 5 (190 BLOCKWORK)

SCALE 1:50

NOTE:
REFER STRUCTURAL ENGINEER'S
DRAWING FOR DETAILS



6	06.07.15	REISSUED FOR DEVELOPMENT APPLICATION	AS	DAC	SCP
5	10.06.15	REISSUED FOR TENDER	AS	DAC	SCP
4	29.05.15	ISSUED FOR TENDER	AS	DAC	SCP
3	04.05.15	FINAL DEVELOPMENT APPLICATION	AS	DAC	SCP
2	04.05.15	FINAL DEVELOPMENT APPLICATION	AS	DAC	SCP
1	20.04.15	ISSUED FOR INFORMATION - WORK IN PROGRESS	AS	SCP	
Rev.	Date	Description	Des.	Verif.	Appd.



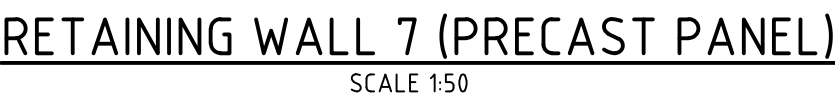
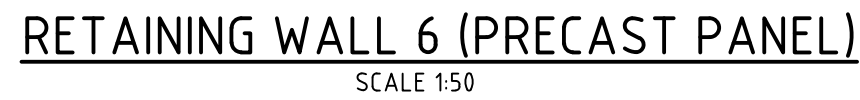
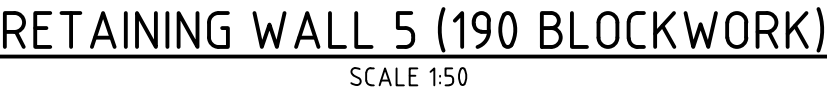
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Drawn BJH	Date 06.07.15	Client FDC BUILDING
Checked DAC	Date 06.07.15	Project IKEA MFLU
Designed AS	Date 06.07.15	MARSDEN PARK INDUSTRIAL PRECINCT DEVELOPMENT APPLICATION
Verified DAC	Date 06.07.15	Title RETAINING WALL ELEVATIONS SHEET 4
Approved SCP	Date 06.07.15	
Status FOR APPROVAL		NOT TO BE USED FOR CONSTRUCTION PURPOSES
Datum AHD		Scale 1:50
Drawing Number 80215051-01-1364		Size A1
		Revision 6



0 1 2 3 4 5m

SCALE 1:50 @A1



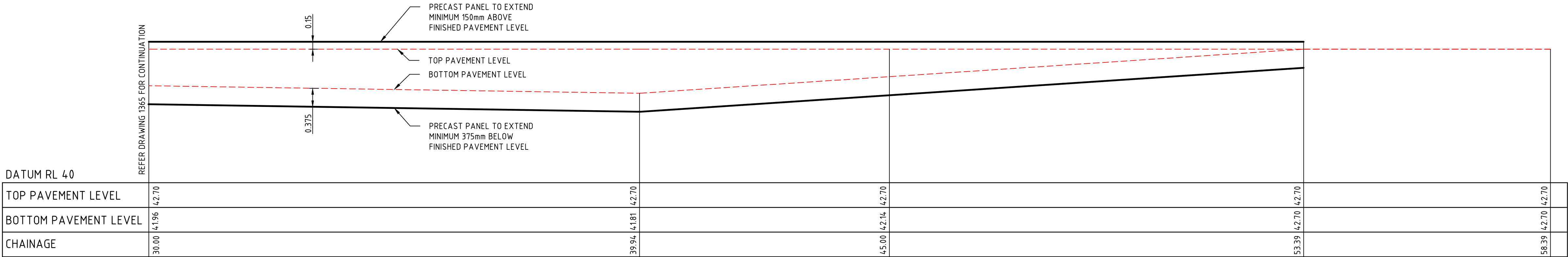
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Drawn B.J.H.	Date 06.07.15	Client	FDC BUILDING			
Checked DAC	Date 06.07.15	Project	IKEA MFLU MARSDEN PARK INDUSTRIAL PRECINCT DEVELOPMENT APPLICATION		Status	FOR APPROVAL
Designed AS	Date 06.07.15		NOT TO BE USED FOR CONSTRUCTION PURPOSES			
Verified DAC	Date 06.07.15	Title				
Approved						
SCP	06.07.15	RETAINING WALL ELEVATIONS SHEET 5	AHD Drawing Number 80215051-01-1365		Scale 1:50	Size A1 Revision 6

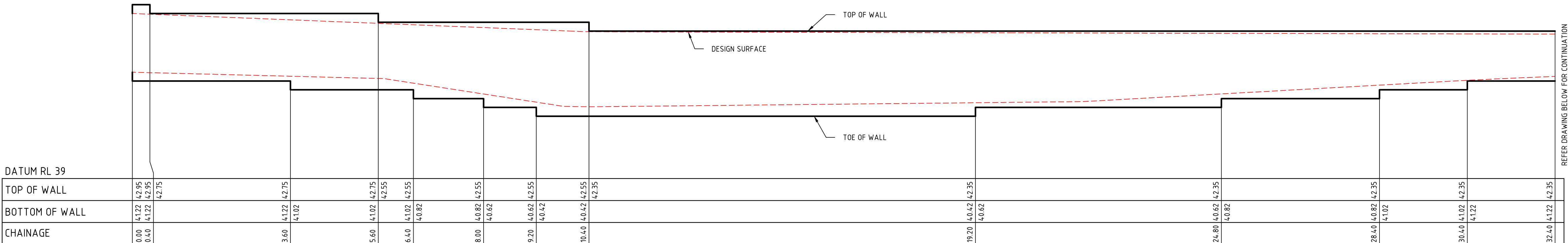
DATE PLOTTED 6 July 2015 3:25 PM BY: BRITTANY HOLZHEIMER

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CAD File: \\cardno-corporate\au\au\NSW\Drawings\Build\80215051-01-1361-1366-DWG(6).dwg



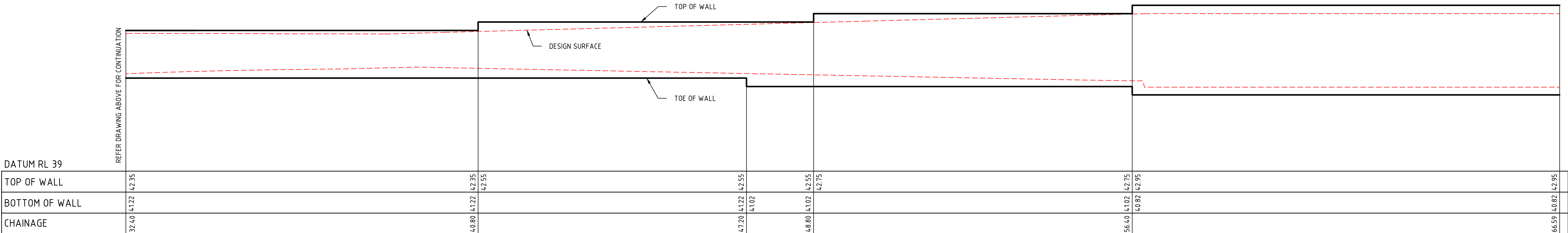
RETAINING WALL 7 (PRECAST PANEL)

SCALE 1:50



RETAINING WALL 8 (190 BLOCKWORK)

SCALE 1:50

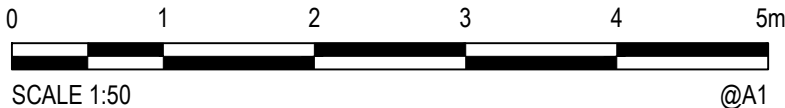


RETAINING WALL 8 (190 BLOCKWORK)

SCALE 1:50

NOTE:

REFER STRUCTURAL ENGINEER'S
DRAWING FOR DETAILS



Rev.	Date	Description	Des.	Verif.	Appd.
6	06.07.15	REISSUED FOR DEVELOPMENT APPLICATION	AS	DAC	SCP
5	10.06.15	REISSUED FOR TENDER	AS	DAC	SCP
4	29.05.15	ISSUED FOR TENDER	AS	DAC	SCP
3	04.05.15	FINAL DEVELOPMENT APPLICATION	AS	DAC	SCP
2	04.05.15	FINAL DEVELOPMENT APPLICATION	AS	DAC	SCP
1	20.04.15	ISSUED FOR INFORMATION - WORK IN PROGRESS	AS	SCP	



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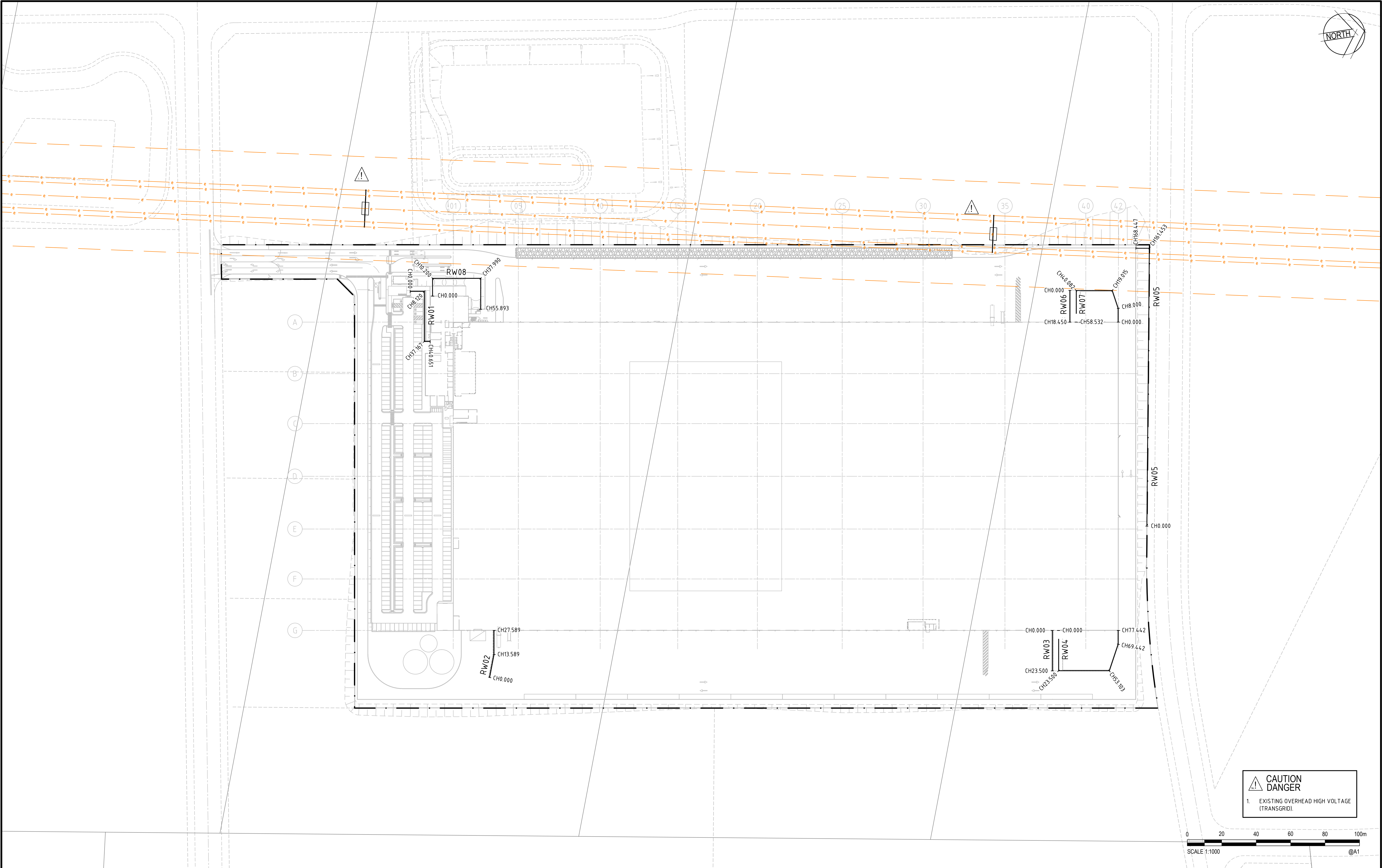
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Checked	DAC	Date	06.07.15
Designed	AS	Date	06.07.15
Verified	DAC	Date	06.07.15
Approved	SCP	Date	06.07.15

Client	FDC BUILDING
Project	IKEA MFLU MARSDEN PARK INDUSTRIAL PRECINCT DEVELOPMENT APPLICATION
Title	RETAINING WALL ELEVATIONS SHEET 6

Status				FOR APPROVAL	
NOT TO BE USED FOR CONSTRUCTION PURPOSES					
Datum		Scale		Size	
AHD		1:50		A1	
Drawing Number				Revision	
80215051-01-1366				6	

DATE PLOTTED: 11 June 2015 1:40 PM BY: DAVID COLEMAN

XREFs: Xref-80215051-01-Site Boundary, Xref-80215051-01-Design, Xref-80215051-01-Architect, Xref-80215051-01-Client Logos
CAD File: \\cardno.corp\global\AU\NSW\Drawings\Build\80215051-01-1381-DWG(2).dwg



Rev.	Date	Description	Des.	Verif.	Appd.
2	10.06.15	REISSUED FOR TENDER	AS	DAC	SCP
1	29.05.15	ISSUED FOR TENDER	AS	DAC	SCP



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Drawn	BJH	Date	10.06.15
Checked	DAC	Date	10.06.15
Designed	AS	Date	10.06.15
Verified	DAC	Date	10.06.15
Approved	SCP	Date	10.06.15

Client	FDC BUILDING
Project	IKEA MFLU MARSDEN PARK INDUSTRIAL PRECINCT DEVELOPMENT APPLICATION
Title	RETAINING WALL LOCALITY PLAN

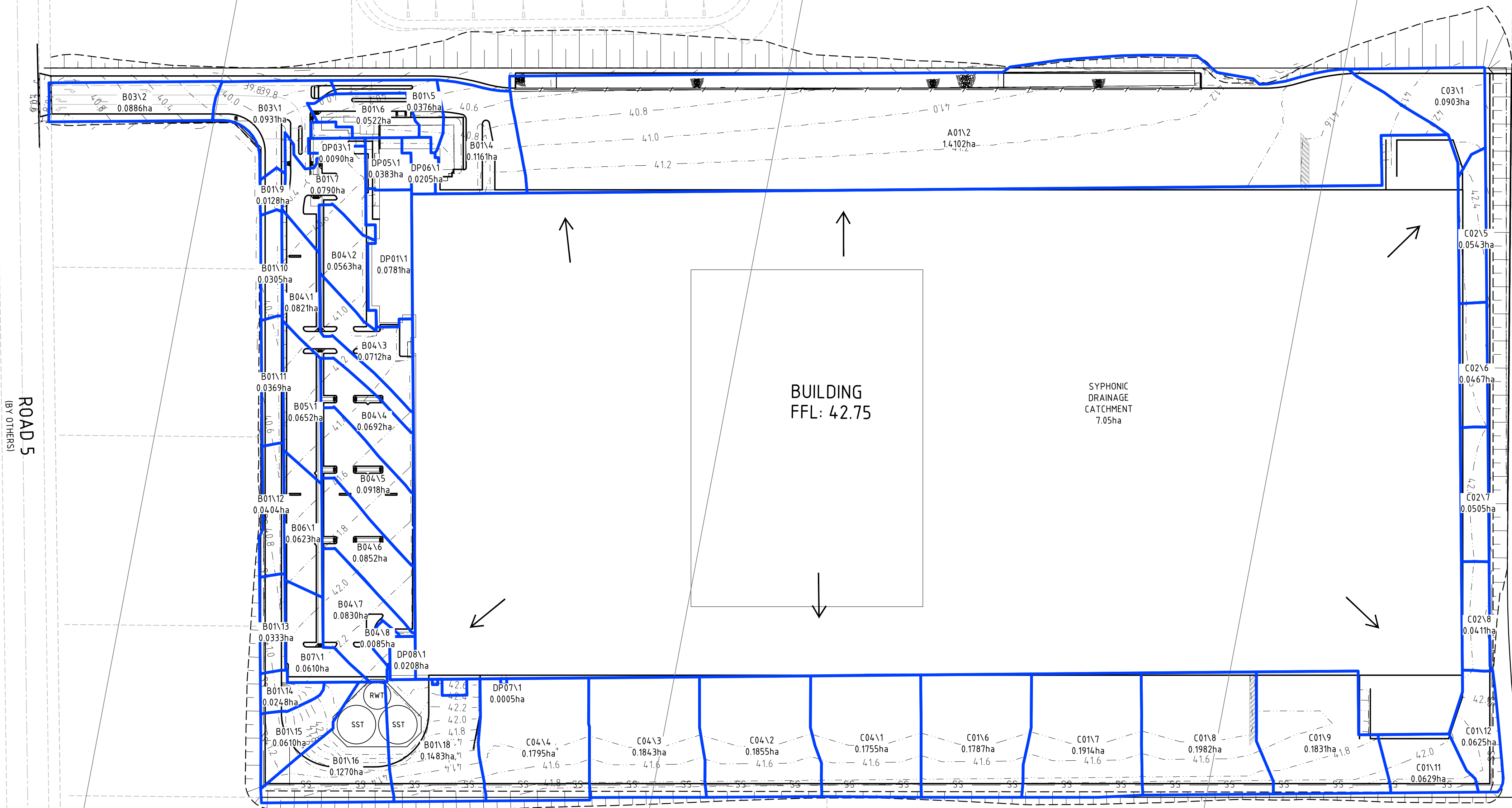
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NOT TO BE USED FOR CONSTRUCTION PURPOSES					
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AHD		1:1000		A1	
Drawing Number				Revision	
80215051-01-1381				2	

DATE PLOTTED 6 July 2015 3:25 PM BY: BRITTANY HOLZHEIMER



BASIN A
(BY OTHERS)

BASIN B
(BY OTHERS)



ROAD 4
(BY OTHERS)

ROAD 5
(BY OTHERS)

BUILDING
FFL: 42.75

SYPHONIC
DRAINAGE
CATCHMENT
7.05ha

LEGEND

CATCHMENT BOUNDARY
A01/1 0.0604ha CATCHMENT LABEL/AREA



Rev.	Date	Description	Des.	Verif.	Appd.
5	06.07.15	REISSUED FOR DEVELOPMENT APPLICATION	AS	DAC	SCP
4	10.06.15	REISSUED FOR TENDER	AS	DAC	SCP
3	29.05.15	ISSUED FOR TENDER	AS	DAC	SCP
2	04.05.15	FINAL DEVELOPMENT APPLICATION	AS	DAC	SCP
1	23.04.15	DEVELOPMENT APPLICATION	AS	DAC	SCP



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Checked	DAC	Date	06.07.15
Designed	AS	Date	06.07.15
Verified	DAC	Date	06.07.15
Approved	SCP	Date	06.07.15

Client	FDC BUILDING
Project	IKEA MFLU MARSDEN PARK INDUSTRIAL PRECINCT DEVELOPMENT APPLICATION
Title	STORMWATER CATCHMENT PLAN

Status	FOR APPROVAL
Datum	AHD
Scale	1:1000
Size	A1
Drawing Number	80215051-01-1401
Revision	5



SCALE 1:500

MATERIALS:

A) BIO-RETENTION FILTER MEDIA

- | | | |
|-----------------------|--------|---------------|
| CLAY & SILT | <3% | (<0.05mm) |
| VERY FINE SAND | 5-30% | (0.05-0.15mm) |
| FINE SAND | 10-30% | (0.15-0.25mm) |
| MEDIUM TO COARSE SAND | 40-60% | (0.25-1.0mm) |
| COARSE SAND | 7-10% | (1.0-2.0mm) |
| FINE GRAVEL | <3% | (2.0-3.4mm) |

- ORGANIC MATTER CONTENT IN ACCORDANCE WITH AS4419 AT LEAST 3% (W/W)
- TOTAL NITROGEN (TN) CONTENT -800mg/kg
- ORTHOPHOSPHATE (PO₄) CONTENT - <20mg/kg WHERE PLANTS WITH MODERATE PHOSPHOROUS SENSITIVITY ARE TO BE USED, TOTAL PHOSPHOROUS CONTENT SHOULD BE <20mg/kg
- AS SPECIFIED FOR "NATURAL SOILS AND SOIL BLENDS" AS4419 - pH 5.5-7.5 (1H IN WATER)
- ELECTRICAL CONDUCTIVITY (EC) AS SPECIFIED FOR "NATURAL SOILS AND SOIL BLENDS" AS4419 -1.2ds/m
- DISPENSABILITY AS - AS SPECIFIED FOR "NATURAL SOILS AND SOIL BLENDS" AS4419 CATEGORY 1 OR 2
- TEXTURE - LOAMY SAND AS PER AS4419

6. TESTS CONFIRMING THE REQUIREMENTS OF ITEMS 1 TO 4 ARE TO BE SUBMITTED FOR APPROVAL PRIOR TO PLACEMENT OF FILTER MEDIA.

B) TRANSITION LAYER

WHERE: D₁₅ (TRANSITION LAYER) IS THE 15TH PERCENTILE PARTICLE SIZE IN THE TRANSITION LAYER MATERIAL (i.e., 15% OF THE SAND IS SMALLER THAN D₁₅ mm), AND D₈₅ (FILTER MEDIA) IS THE 85TH PERCENTILE PARTICLE SIZE IN THE FILTER MEDIA.

C) DRAINAGE LAYER

WHERE: D15 (DRAINAGE LAYER) IS THE 15TH PERCENTILE PARTICLE SIZE IN THE TRANSITION LAYER MATERIAL (i.e., 15% OF THE SAND IS SMALLER THAN D15 mm), AND D85 (TRANSITION LAYER) IS THE 85TH PERCENTILE PARTICLE SIZE IN THE FILTER MEDIA.

INSTALLATION:

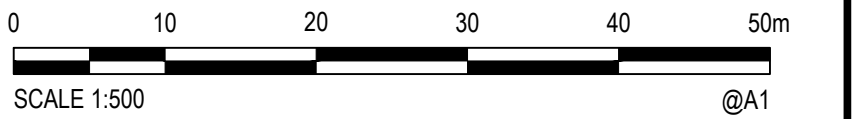
FILTER MATERIAL IS TO BE LIGHTLY COMPACTED (E.G. A SINGLE PASS WITH A DRUM LAWN ROLLER) UNDER NO CIRCUMSTANCES SHOULD HEAVY EQUIPMENT OR MULTIPLE PASSES BE MADE. FILTER MEDIA SHOULD BE INSTALLED IN TWO LIFTS UNLESS THE DEPTH IS LESS THAN 500mm.

LINER

HDPE LINER TO BE IMPERMEABLE.



SCALE 1:20

[illegible]

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BJH	06.07.15
Checked	Date
DAC	06.07.15
Designed	Date
AS	06.07.15
Verified	Date
DAC	06.07.15
Approved	
SCP	06.07.15

Project IKEA MFLU

STORMWATER DRAINAGE DETAILS
SHEET 1

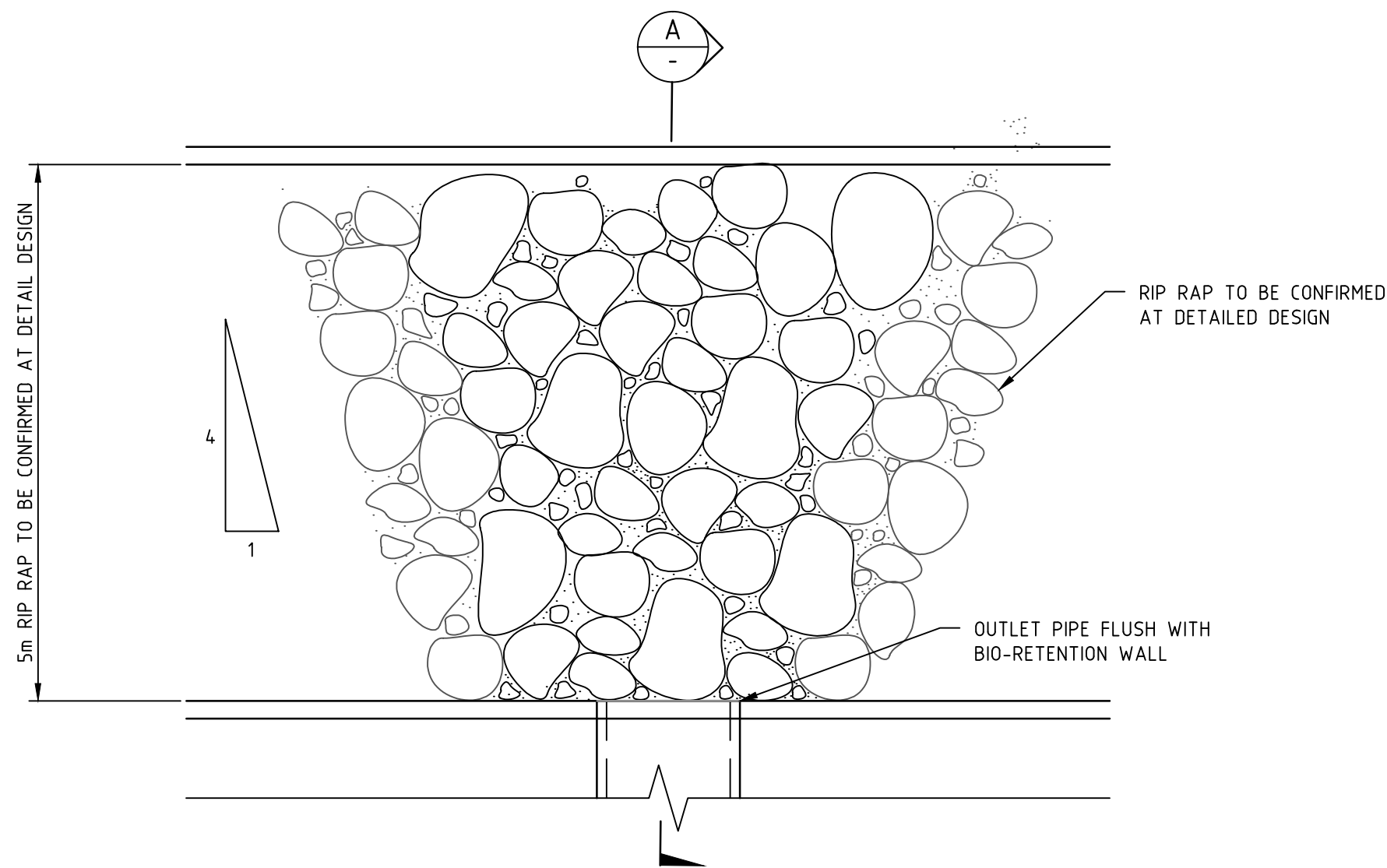
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FOR APPROVAL

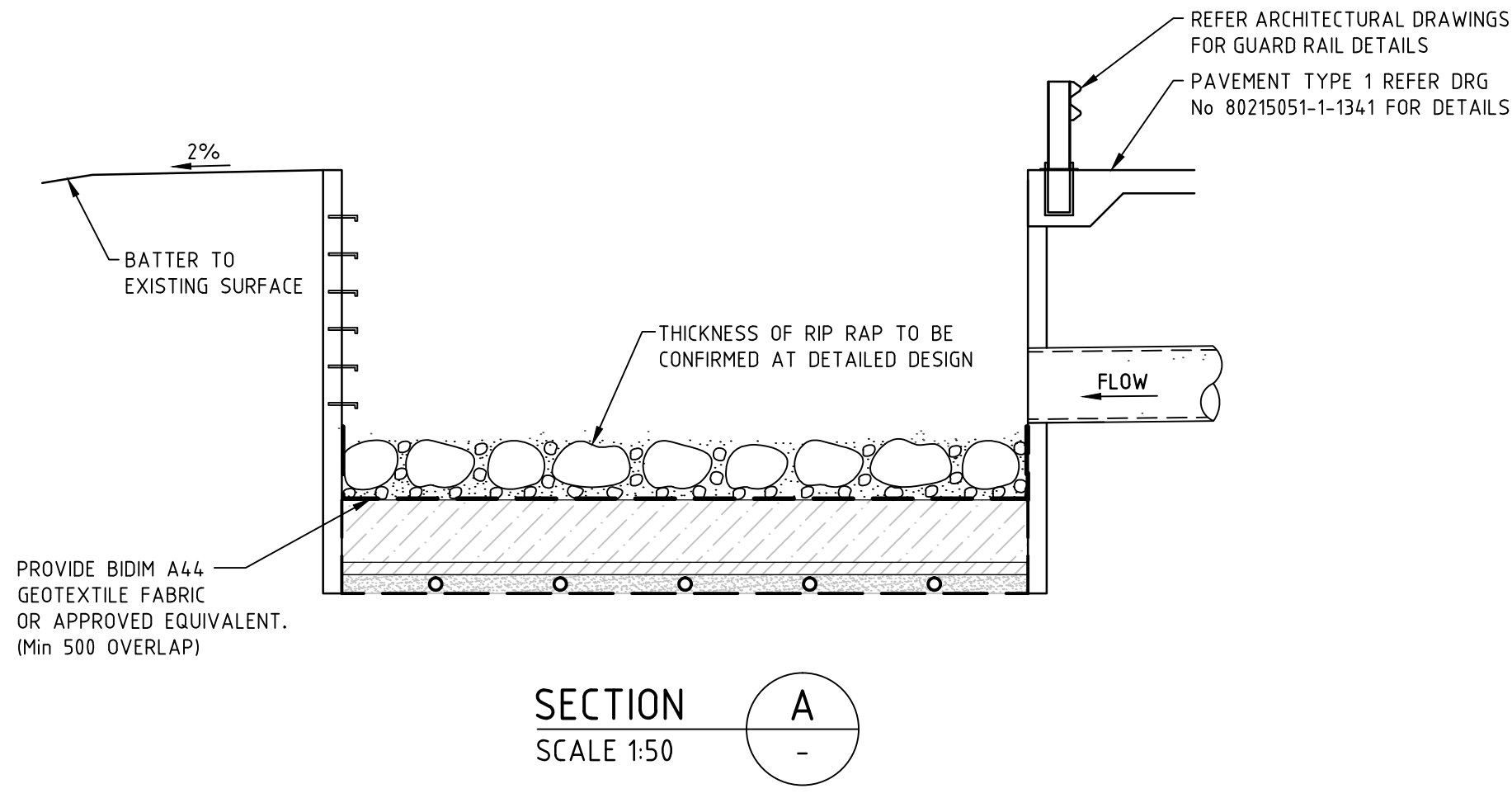
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Datum AHD	Scale AS SHOWN	Size A1
Drawing Number 80215051-01-1421		Revision 5

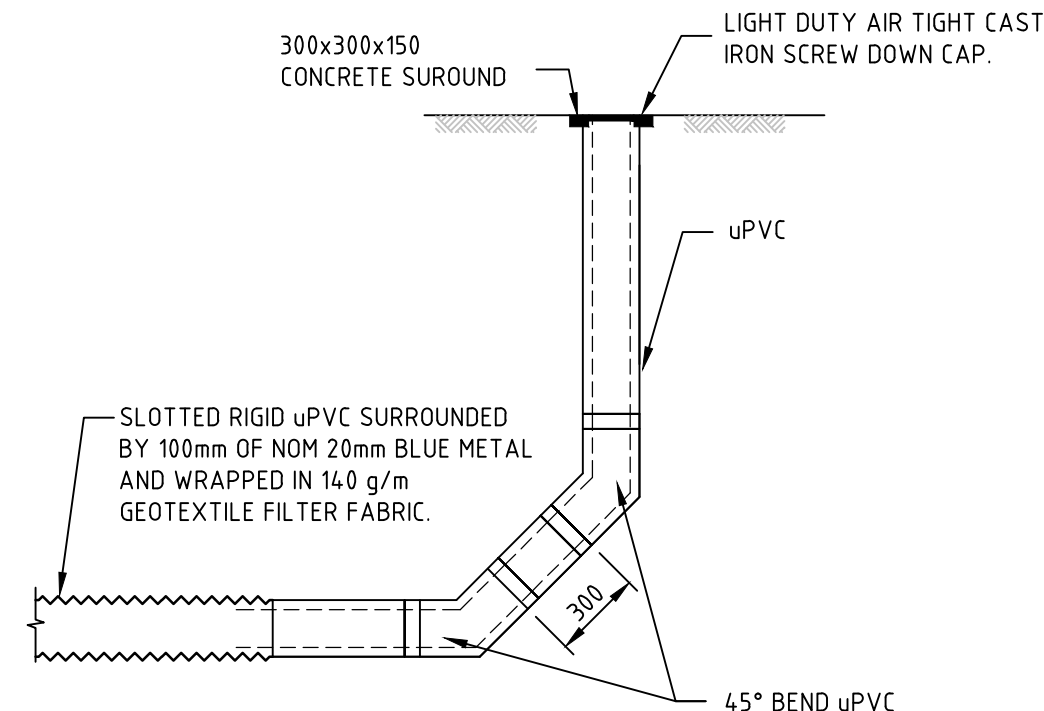
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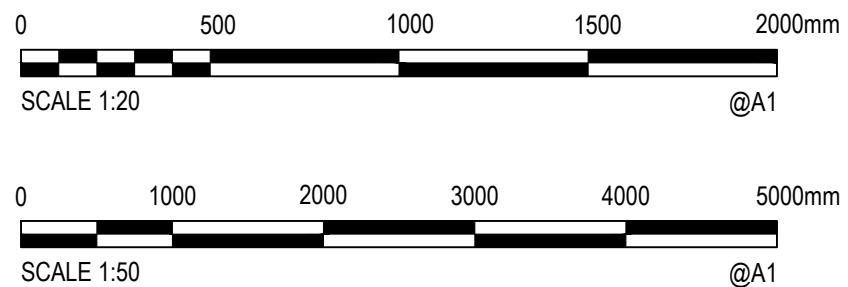
BIO-RETENTION BASIN OUTLET SCOUR PROTECTION PLAN
SCALE 1:50



BIO-RETENTION BASIN OUTLET SCOUR PROTECTION DETAIL
SCALE 1:50



FLUSHING POINT DETAIL
SCALE 1:20



XREFs: Xref:80215051-01-Design; Xref:80215051-01-Sydney Business Park; Xref:80215051-01-Existing Services; Xref:80215051-01-Client Logos; Xref:80215051-01-Design Contours 500
CAD File: \\cardno-corporate\au\NSW\Drawings\Build\80215051-01-1421-1422-DWG(6).dwg

Rev.	Date	Description	Des.	Verif.	Appd.
5	06.07.15	REISSUED FOR DEVELOPMENT APPLICATION	AS	DAC	SCP
4	10.06.15	REISSUED FOR TENDER	AS	DAC	SCP
3	29.05.15	ISSUED FOR TENDER	AS	DAC	SCP
2	04.05.15	FINAL DEVELOPMENT APPLICATION	AS	DAC	SCP
1	23.04.15	DEVELOPMENT APPLICATION	AS	DAC	SCP



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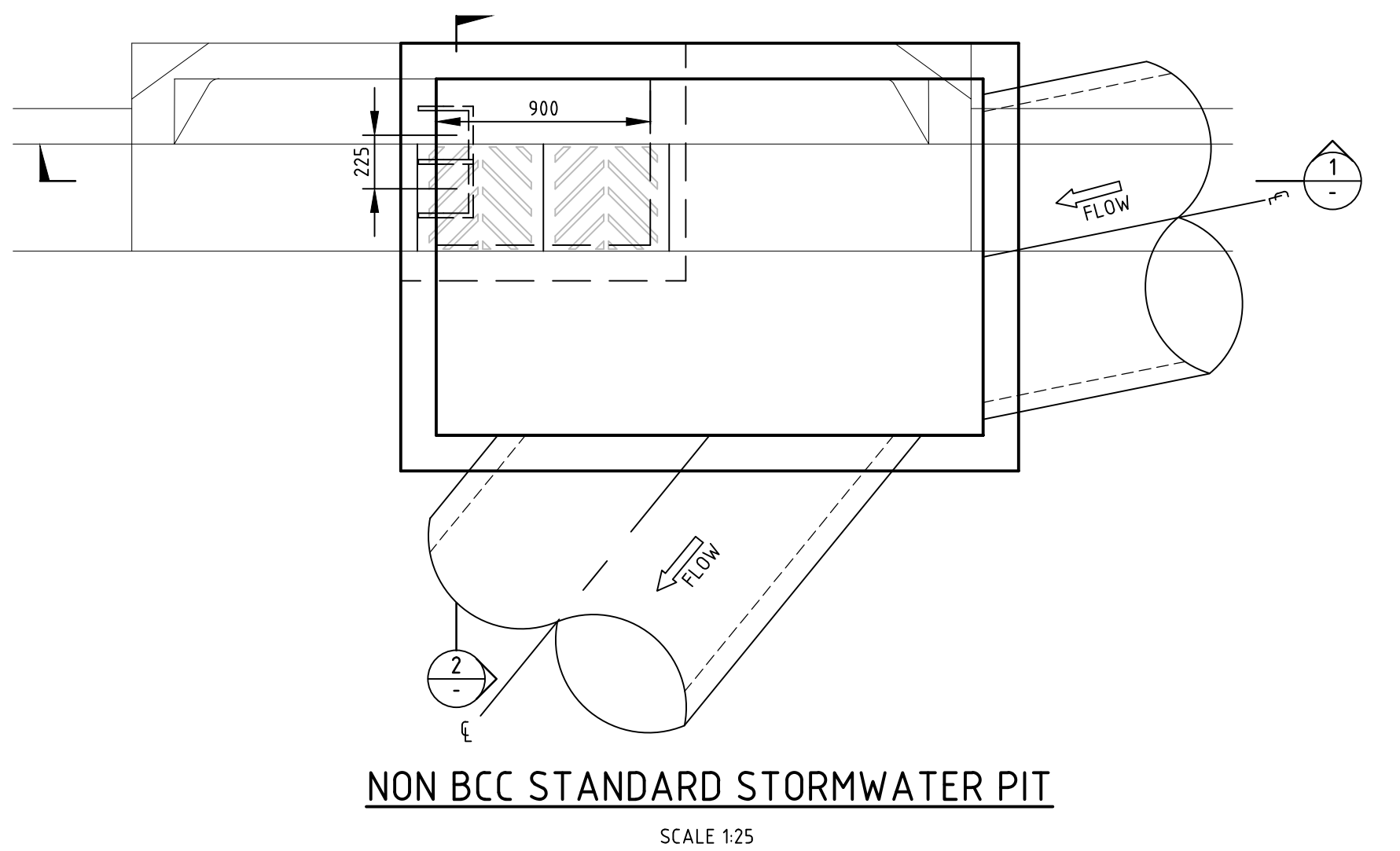
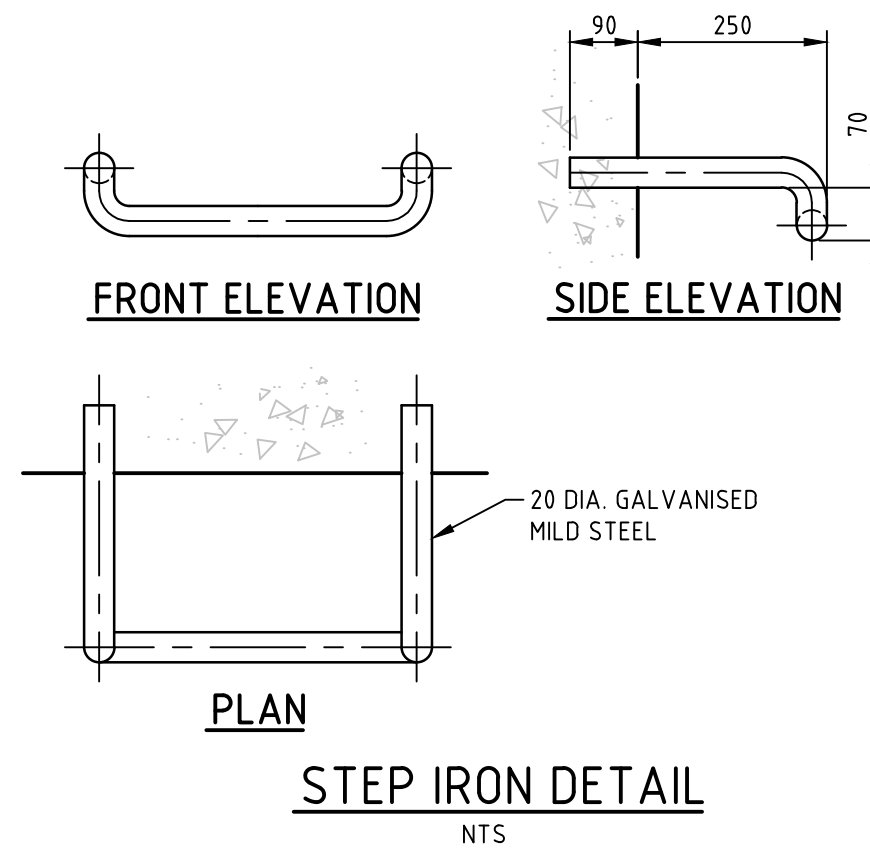
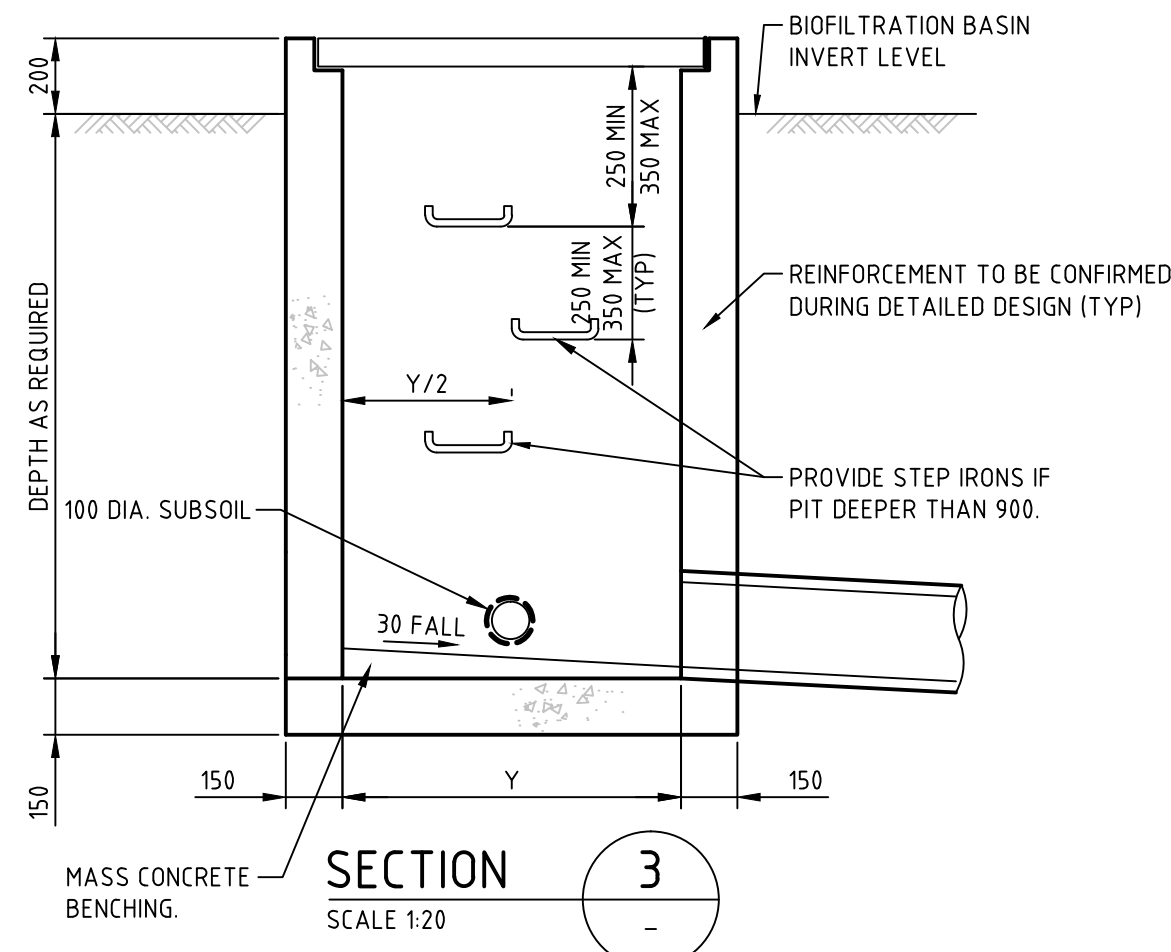
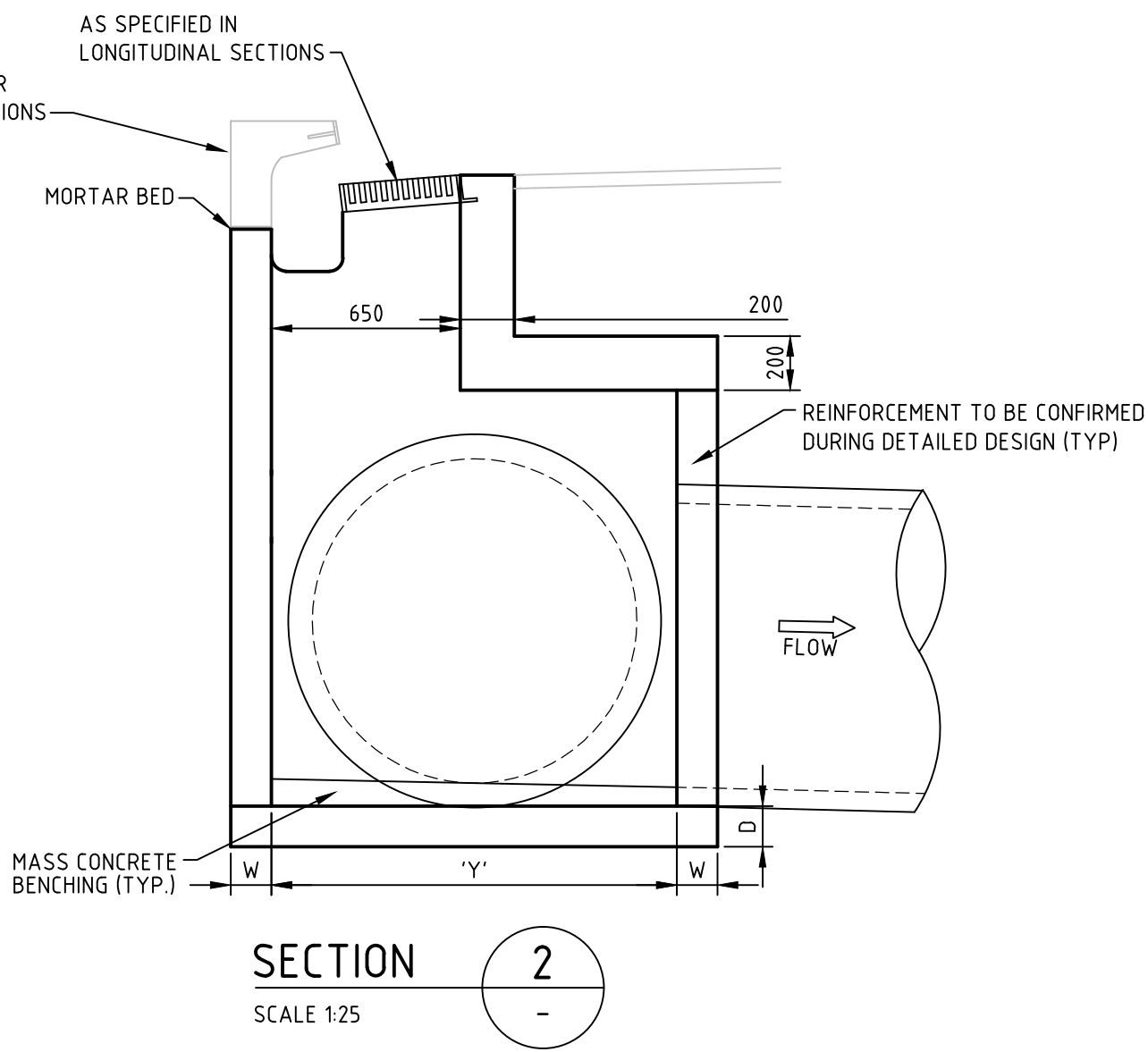
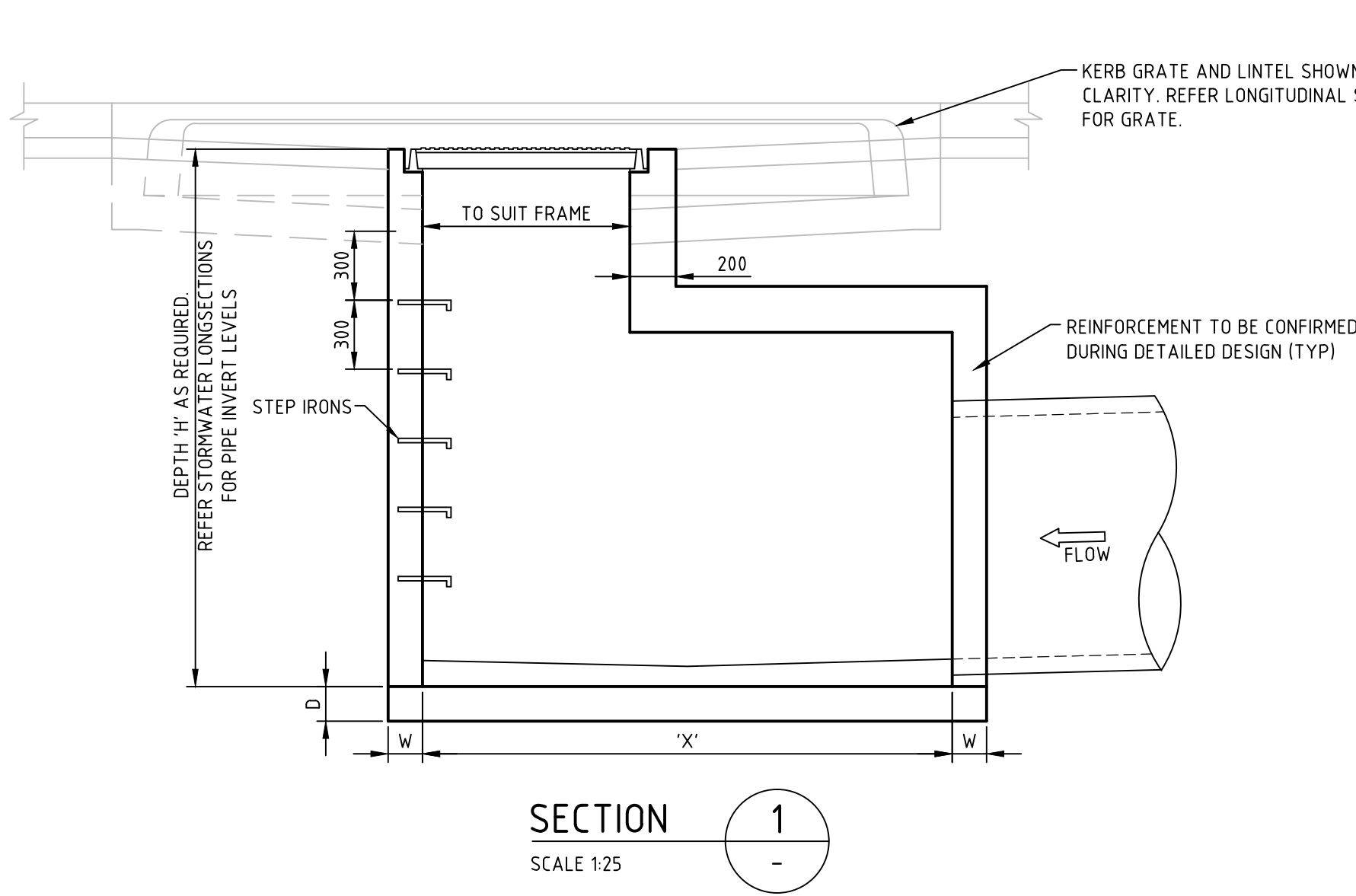
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Drawn	BJH	Date	06.07.15
Checked	DAC	Date	06.07.15
Designed	AS	Date	06.07.15
Verified	DAC	Date	06.07.15
Approved	SCP	Date	06.07.15

Client	FDC BUILDING
Project	IKEA MFLU MARSDEN PARK INDUSTRIAL PRECINCT DEVELOPMENT APPLICATION
Title	STORMWATER DRAINAGE DETAILS SHEET 2

Status	FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION PURPOSES
Datum	AHD
Scale	AS SHOWN
Size	A1
Drawing Number	80215051-01-1422
Revision	5

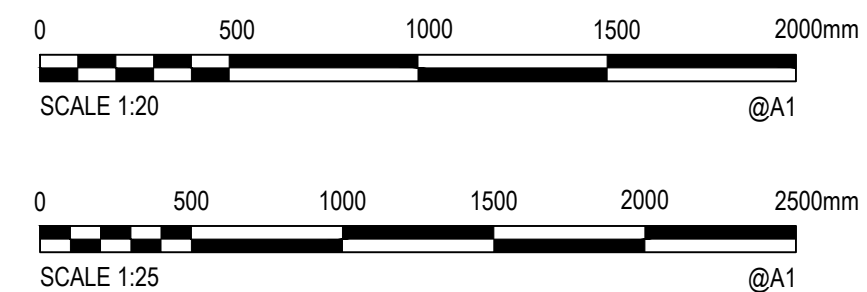
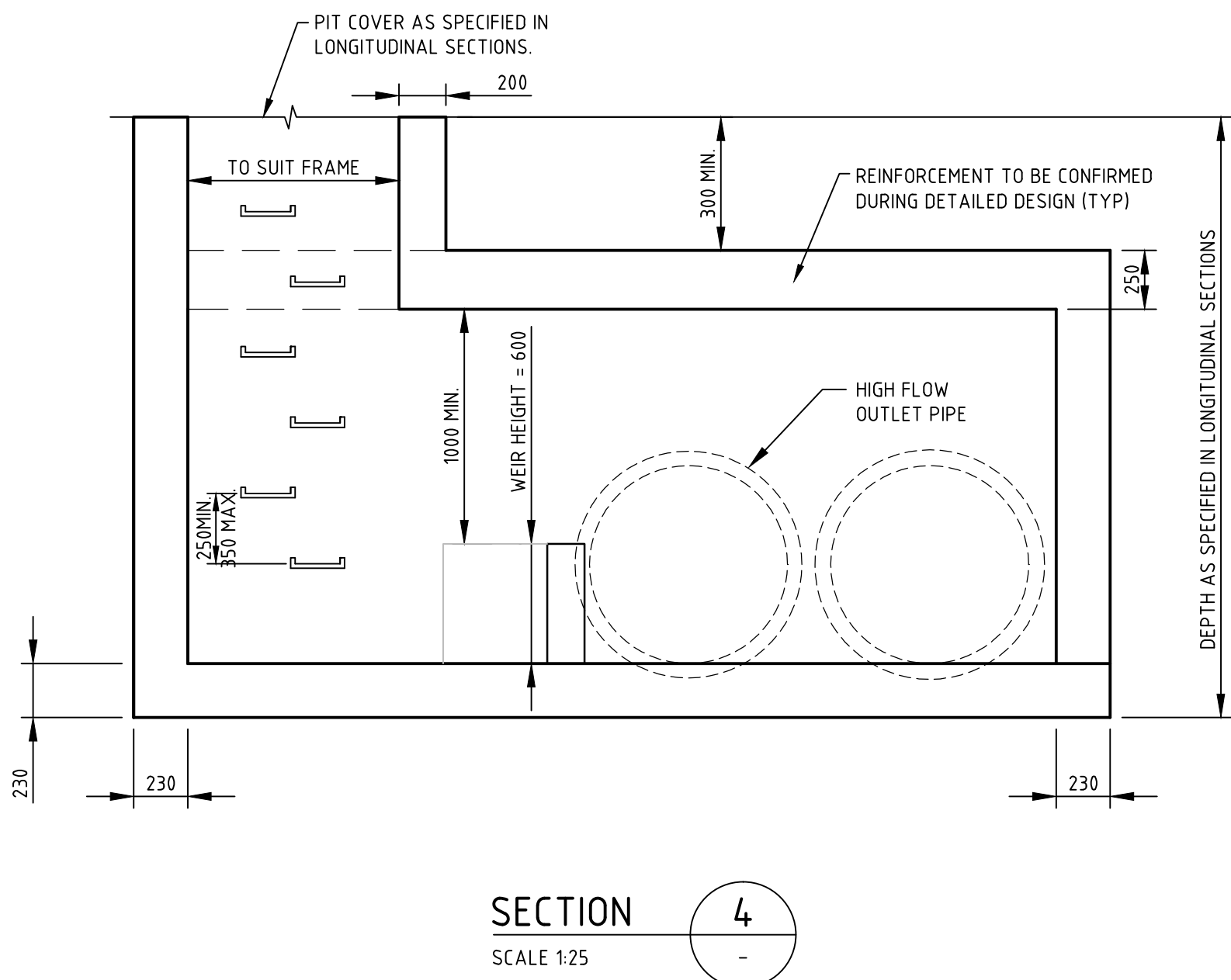
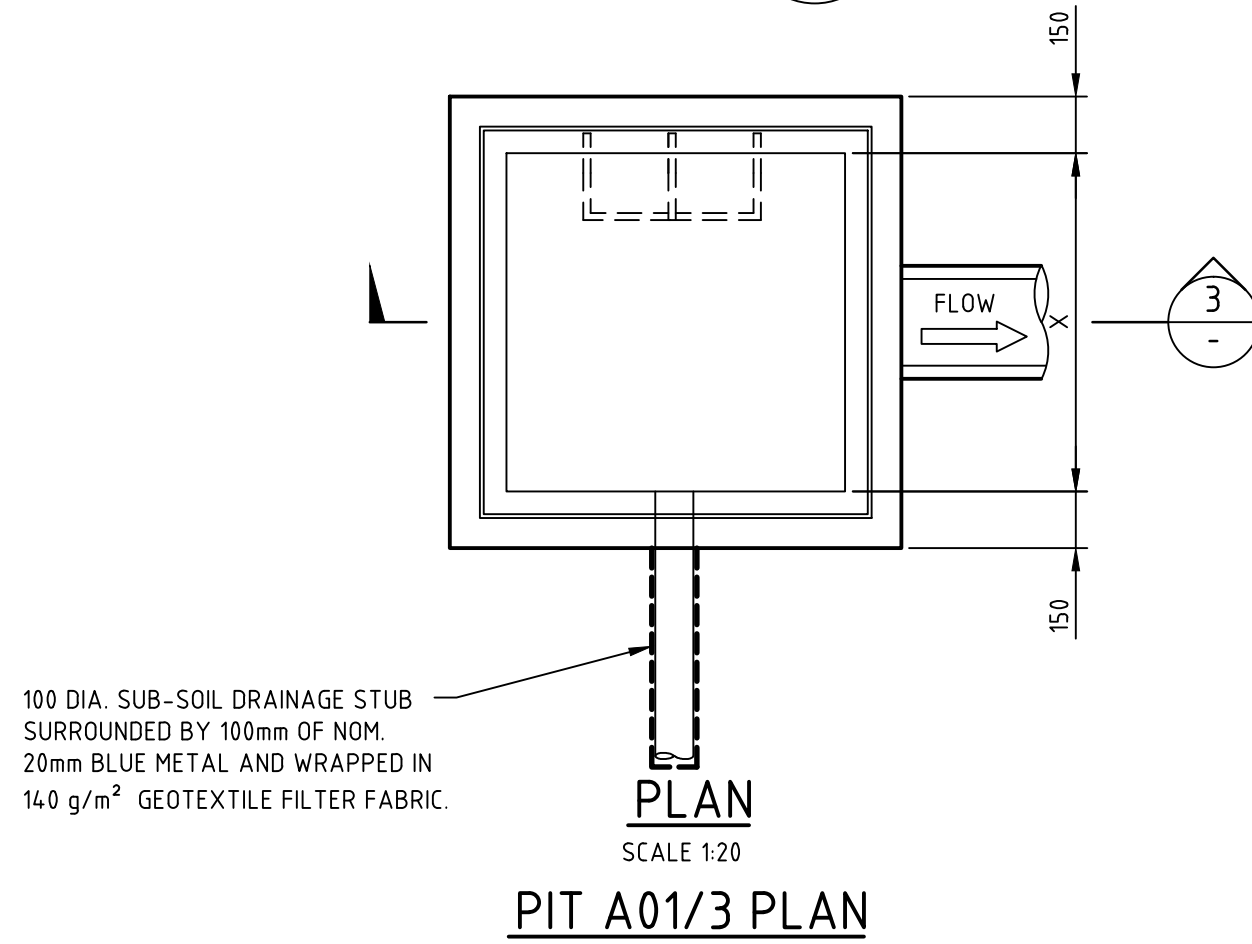
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CAD File: \\cardno.org\global\AUNSW\Drawings\Build\80215051-01-1421-1422-DWG(6).dwg



IMPORTANT NOTE: PIT STANDARD DETAILS

BLACKTOWN COUNCIL STANDARD GRATED GULLY PIT, STANDARD SURFACE INLET PIT AND STANDARD JUNCTION PIT DETAILS A(BS)109M TO BE USED FOR PIT DETAILS WHERE:

- A. PIT INTERNAL WIDTH IN ANY DIRECTION IS LESS THAN OR EQUAL TO 1200mm, AND
- B. PIT DEPTH FROM SETOUT POINT TO INVERT IS LESS THAN OR EQUAL TO 2000mm.



Rev.	Date	Description	Des.	Verif.	Appd.
5	06.07.15	REISSUED FOR DEVELOPMENT APPLICATION	AS	DAC	SCP
4	10.06.15	REISSUED FOR TENDER	AS	DAC	SCP
3	29.05.15	ISSUED FOR TENDER	AS	DAC	SCP
2	04.05.15	FINAL DEVELOPMENT APPLICATION	AS	DAC	SCP
1	23.04.15	DEVELOPMENT APPLICATION	AS	DAC	SCP



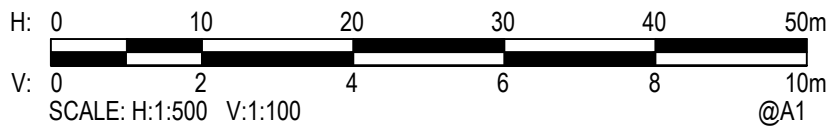
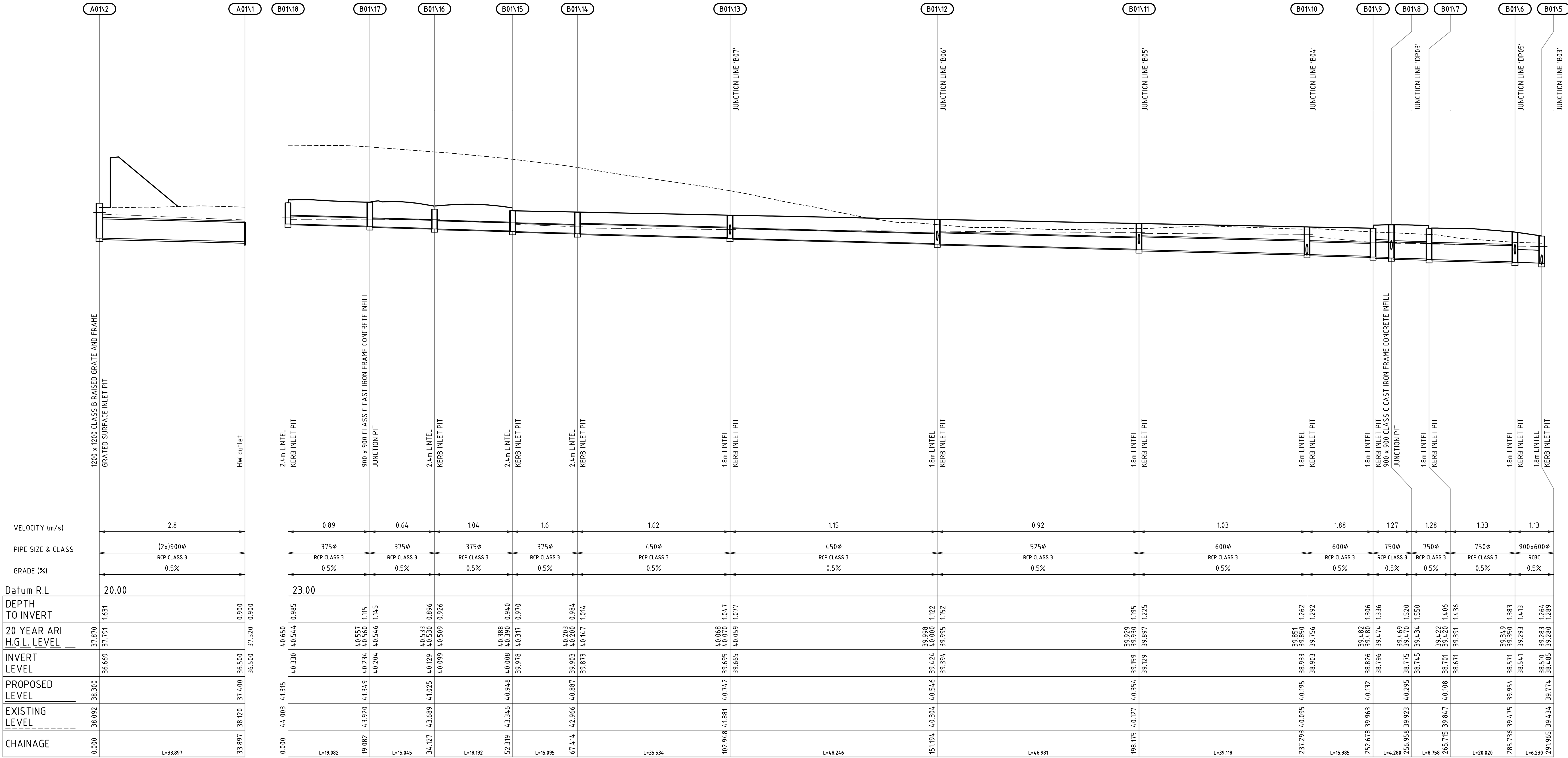
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Checked	DAC	Date	06.07.15
Designed	AS	Date	06.07.15
Verified	DAC	Date	06.07.15
Approved	SCP	Date	06.07.15

Client	FDC BUILDING
Project	IKEA MFLU
Location	MARSDEN PARK INDUSTRIAL PRECINCT
Title	DEVELOPMENT APPLICATION
Stormwater Drainage Details	SHEET 3

Status	FOR APPROVAL
Datum	AHD
Scale	AS SHOWN
Size	A1
Drawing Number	80215051-01-1423
Revision	5



Rev.	Date	Description	Des.	Verif.	Appd.
6	09.07.15	REISSUED FOR DEVELOPMENT APPLICATION	AS	DAC	SCP
5	06.07.15	REISSUED FOR DEVELOPMENT APPLICATION	AS	DAC	SCP
4	10.06.15	REISSUED FOR TENDER	AS	DAC	SCP
3	29.05.15	ISSUED FOR TENDER	AS	DAC	SCP
2	04.05.15	FINAL DEVELOPMENT APPLICATION	AS	DAC	SCP
1	23.04.15	DEVELOPMENT APPLICATION	AS	DAC	SCP

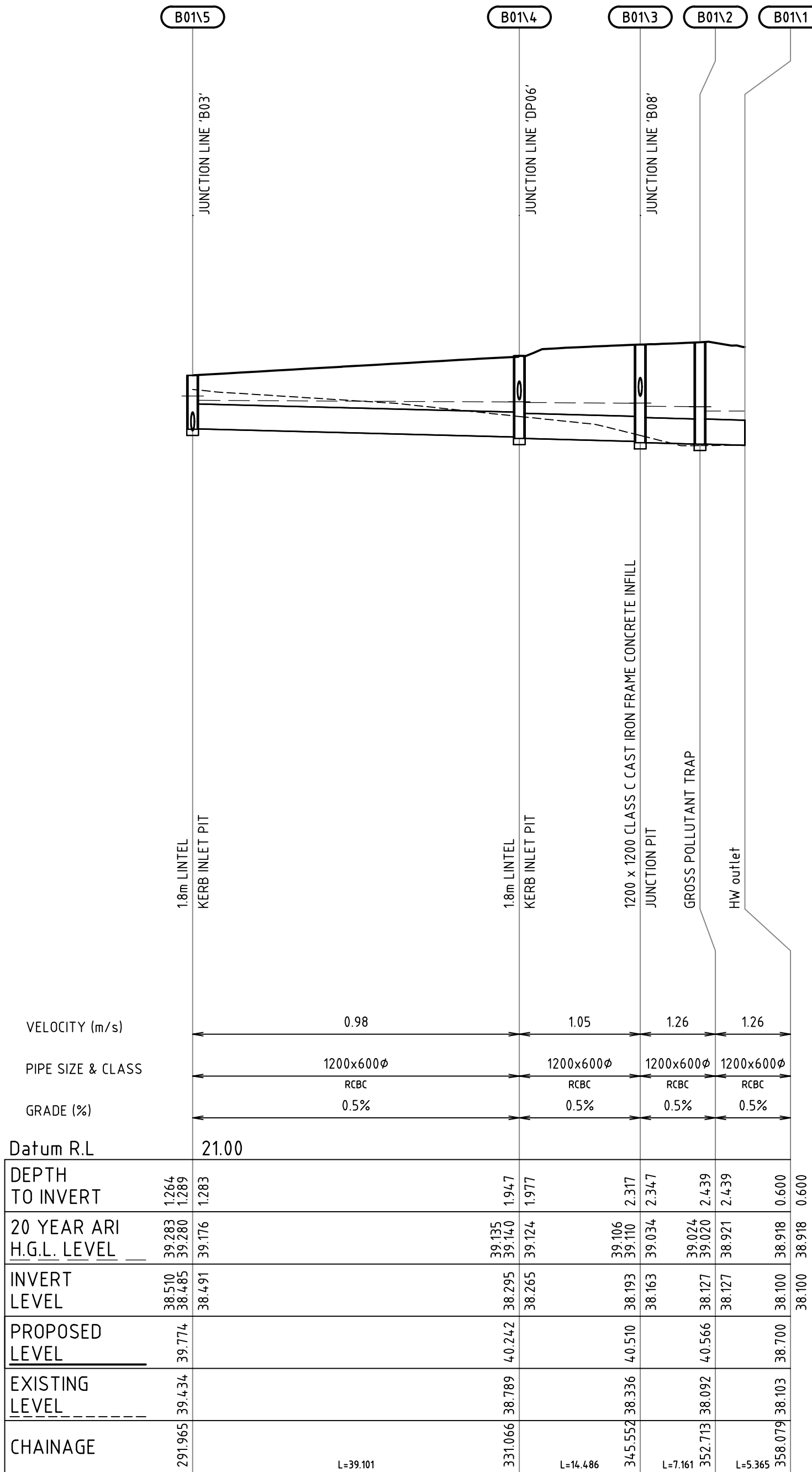


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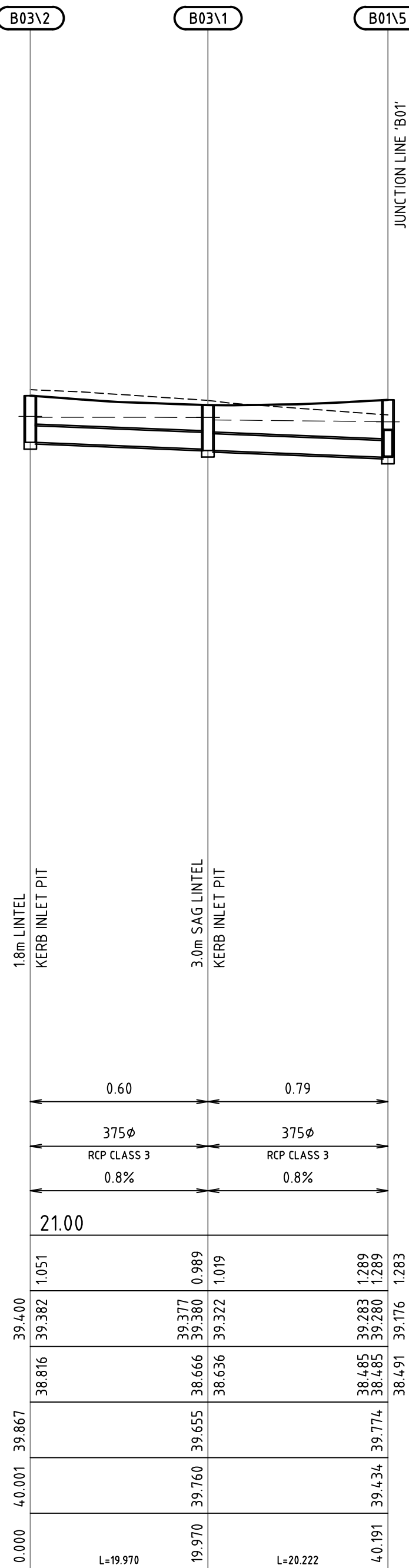


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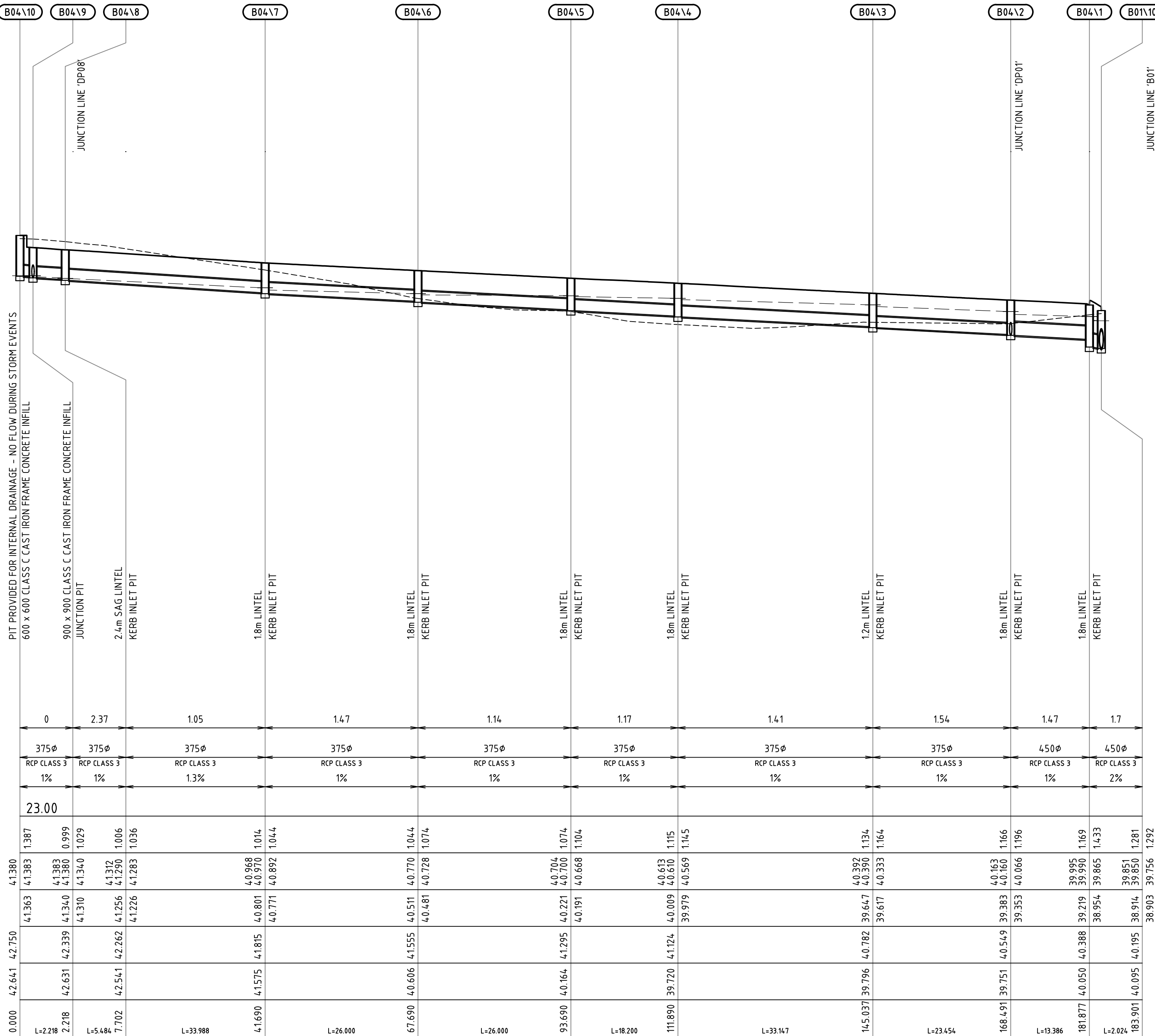
Drawn BJH 09.07.15	Date 09.07.15	Client FDC BUILDING
Checked DAC 09.07.15	Date 09.07.15	Project IKEA MFLU MARSDEN PARK INDUSTRIAL PRECINCT DEVELOPMENT APPLICATION
Designed AS 09.07.15	Date 09.07.15	Status FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION PURPOSES
Verified DAC 09.07.15	Date 09.07.15	Datum AHD
Approved SCP 09.07.15	Date 09.07.15	Scale AS SHOWN
Title STORMWATER DRAINAGE LONGITUDINAL SECTIONS SHEET 1		Size A1
Drawing Number 80215051-01-1461		Revision 6



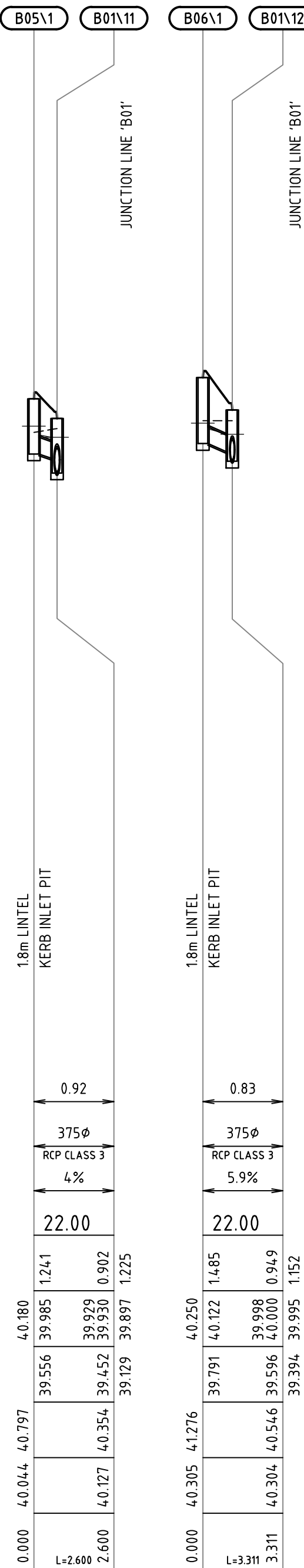
LINE B01



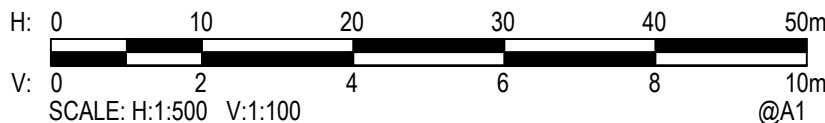
LINE B03



LINE B04



LINE B05 LINE B06



Rev.	Date	Description	Des.	Verif.	Appd.
6	09.07.15	REISSUED FOR DEVELOPMENT APPLICATION	AS	DAC	SCP
5	06.07.15	REISSUED FOR DEVELOPMENT APPLICATION	AS	DAC	SCP
4	10.06.15	REISSUED FOR TENDER	AS	DAC	SCP
3	29.05.15	ISSUED FOR TENDER	AS	DAC	SCP
2	04.05.15	FINAL DEVELOPMENT APPLICATION	AS	DAC	SCP
1	23.04.15	DEVELOPMENT APPLICATION	AS	DAC	SCP



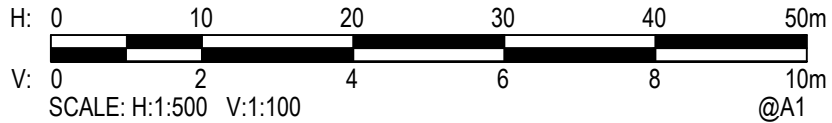
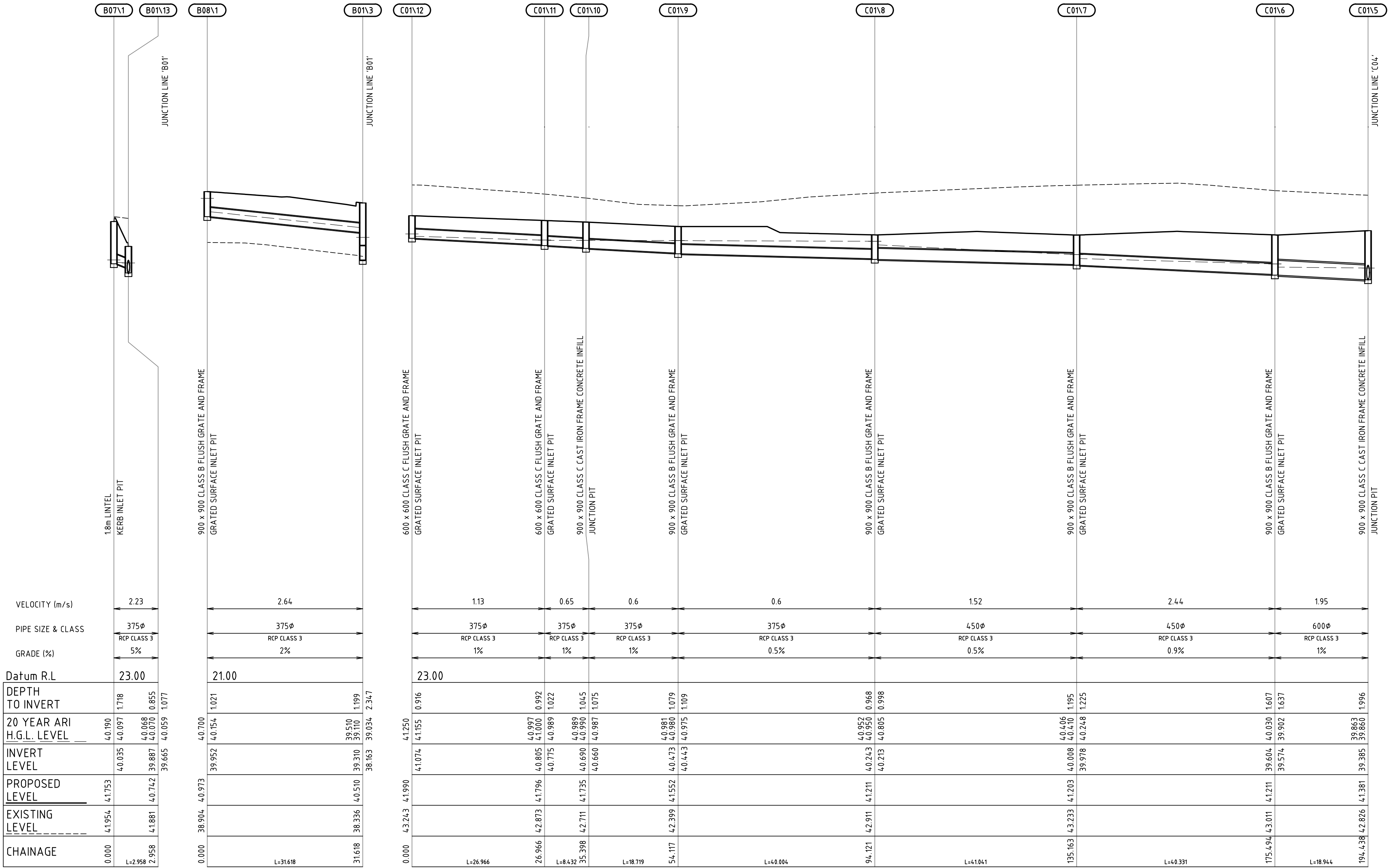
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Drawn BJH 09.07.15	Date 09.07.15	Client FDC BUILDING
Checked DAC 09.07.15	Date 09.07.15	Project IKEA MFLU
Designed AS 09.07.15	Date 09.07.15	MARSDEN PARK INDUSTRIAL PRECINCT
Verified DAC 09.07.15	Date 09.07.15	DEVELOPMENT APPLICATION
Approved SCP 09.07.15	Date 09.07.15	Title STORMWATER DRAINAGE LONGITUDINAL SECTIONS SHEET 2
Status NOT TO BE USED FOR CONSTRUCTION PURPOSES	Datum AHD	Scale AS SHOWN
Drawing Number 80215051-01-1462	Size A1	Revision 6



Rev.	Date	Description	Des.	Verif.	Appd.
6	09.07.15	REISSUED FOR DEVELOPMENT APPLICATION	AS	DAC	SCP
5	06.07.15	REISSUED FOR DEVELOPMENT APPLICATION	AS	DAC	SCP
4	10.06.15	REISSUED FOR TENDER	AS	DAC	SCP
3	29.05.15	ISSUED FOR TENDER	AS	DAC	SCP
2	04.05.15	FINAL DEVELOPMENT APPLICATION	AS	DAC	SCP
1	23.04.15	DEVELOPMENT APPLICATION	AS	DAC	SCP



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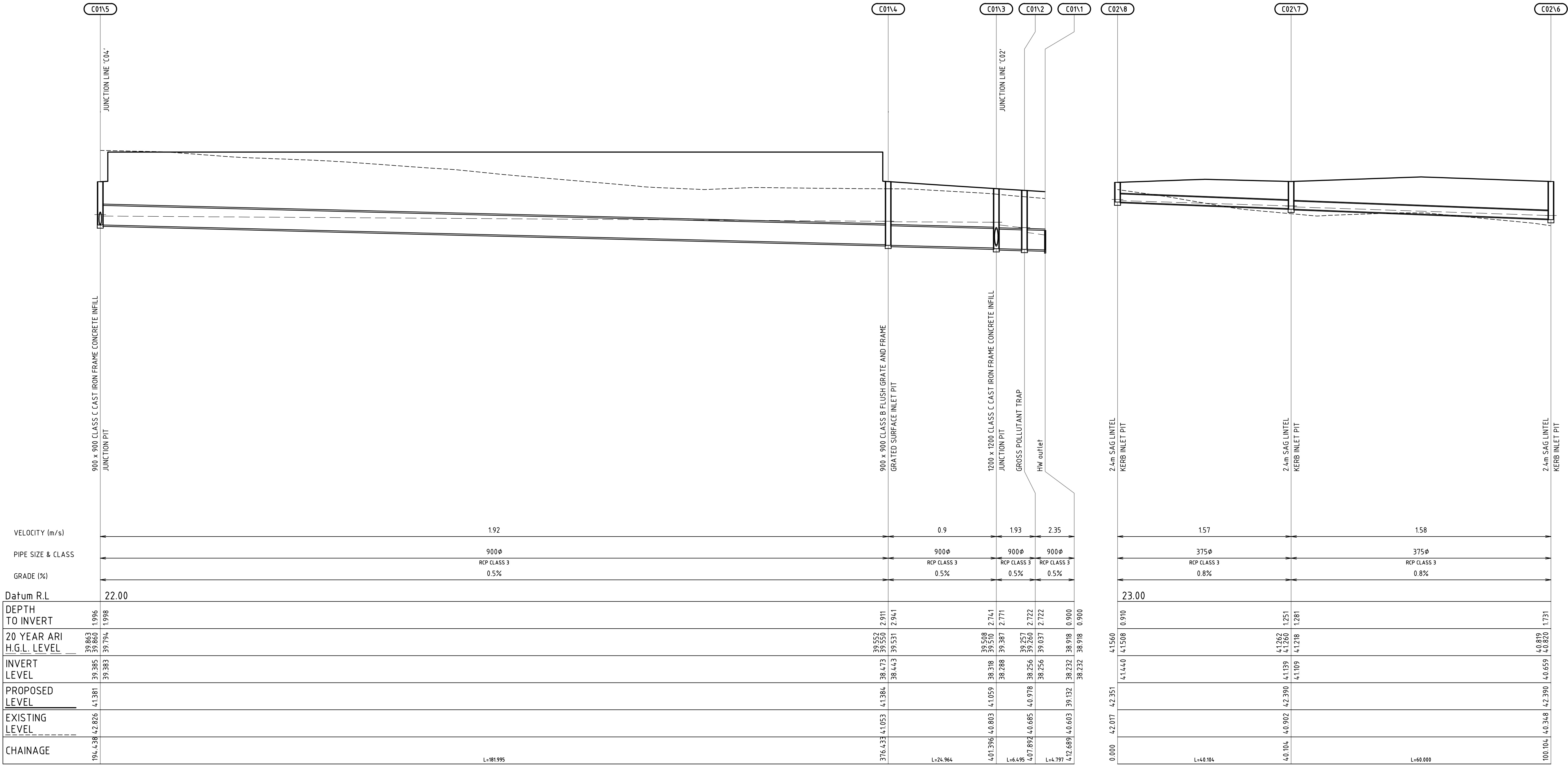
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Level 9, The Forum, 203 Pacific Highway
St Leonards, NSW 2055
Tel: 02 9496 7700 Fax: 02 9439 5170
Web: www.cardno.com.au

Drawn BJH	Date 09.07.15
Checked DAC	Date 09.07.15
Designed AS	Date 09.07.15
Verified DAC	Date 09.07.15
Approved SCP	Date 09.07.15

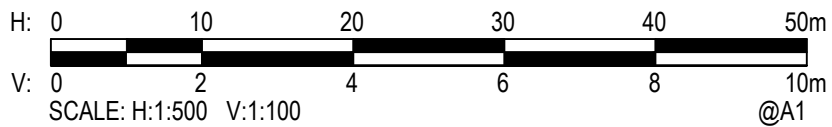
Client FDC BUILDING	Project IKEA MFLU MARSDEN PARK INDUSTRIAL PRECINCT DEVELOPMENT APPLICATION
Title STORMWATER DRAINAGE LONGITUDINAL SECTIONS SHEET 3	

Status FOR APPROVAL	NOT TO BE USED FOR CONSTRUCTION PURPOSES	
Datum AHD	Scale AS SHOWN	Size A1
Drawing Number 80215051-01-1463		Revision 6



LINE C01

LINE C02



Rev.	Date	Description	Des.	Verif.	Appd.
6	09.07.15	REISSUED FOR DEVELOPMENT APPLICATION	AS	DAC	SCP
5	06.07.15	REISSUED FOR DEVELOPMENT APPLICATION	AS	DAC	SCP
4	10.06.15	REISSUED FOR TENDER	AS	DAC	SCP
3	29.05.15	ISSUED FOR TENDER	AS	DAC	SCP
2	04.05.15	FINAL DEVELOPMENT APPLICATION	AS	DAC	SCP
1	23.04.15	DEVELOPMENT APPLICATION	AS	DAC	SCP



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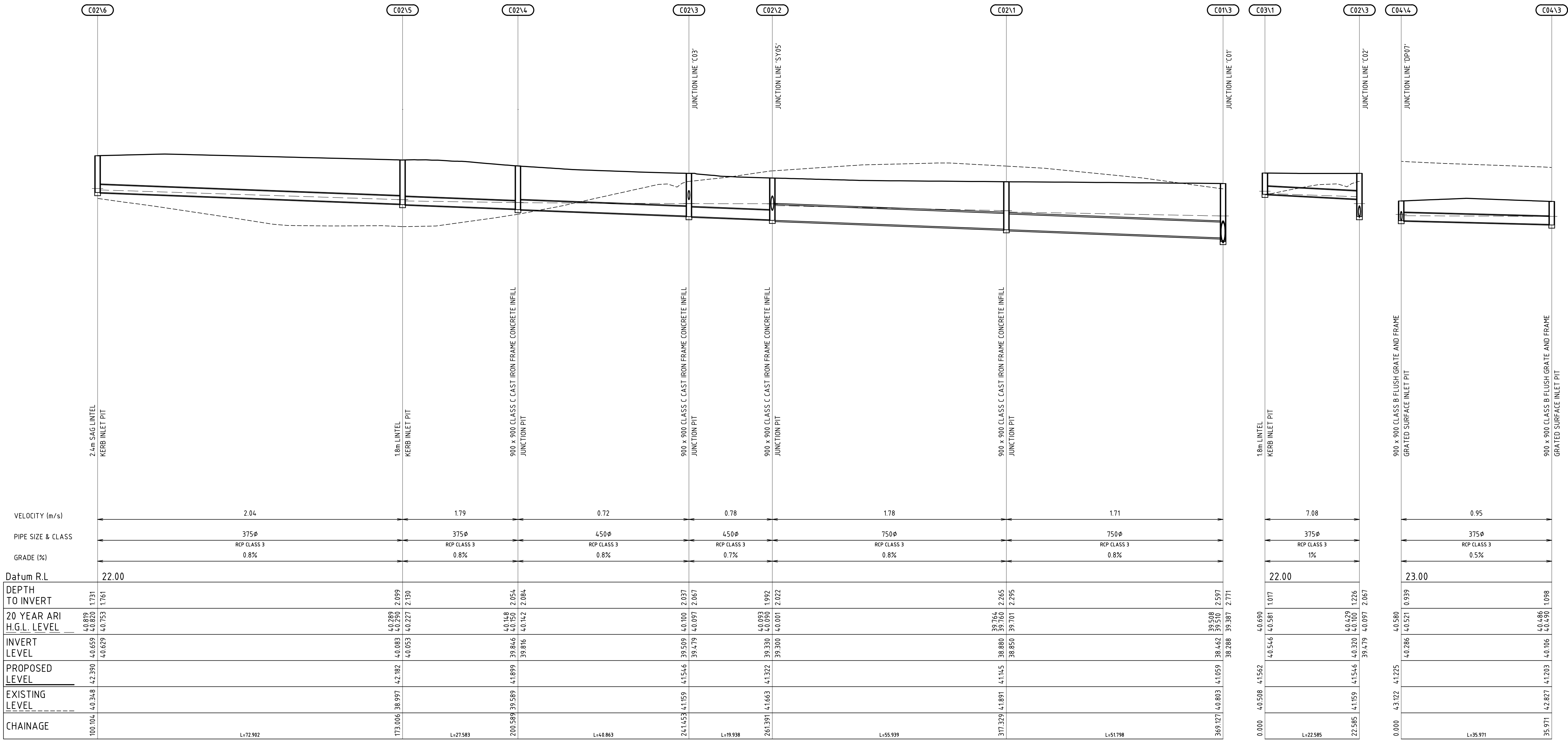
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Level 9, The Forum, 203 Pacific Highway
St Leonards, NSW 2005
Tel: 02 9496 7700 Fax: 02 9439 5170
Web: www.cardno.com.au

Drawn BJH	Date 09.07.15
Checked DAC	Date 09.07.15
Designed AS	Date 09.07.15
Verified DAC	Date 09.07.15
Approved SCP	Date 09.07.15

Client FDC BUILDING
Project IKEA MFLU MARSDEN PARK INDUSTRIAL PRECINCT DEVELOPMENT APPLICATION
Title STORMWATER DRAINAGE LONGITUDINAL SECTIONS SHEET 4

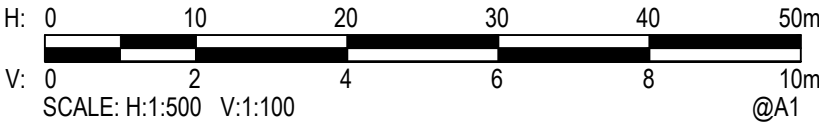
Status			
FOR APPROVAL			
NOT TO BE USED FOR CONSTRUCTION PURPOSES			
Datum		Scale	Size
AHD		AS SHOWN	A1
Drawing Number			Revision
80215051-01-1464			6



LINE C02

LINE C03

LINE C04



Rev.	Date	Description	Des.	Verif.	Appd.
6	09.07.15	REISSUED FOR DEVELOPMENT APPLICATION	AS	DAC	SCP
5	06.07.15	REISSUED FOR DEVELOPMENT APPLICATION	AS	DAC	SCP
4	10.06.15	REISSUED FOR TENDER	AS	DAC	SCP
3	29.05.15	ISSUED FOR TENDER	AS	DAC	SCP
2	04.05.15	FINAL DEVELOPMENT APPLICATION	AS	DAC	SCP
1	23.04.15	DEVELOPMENT APPLICATION	AS	DAC	SCP



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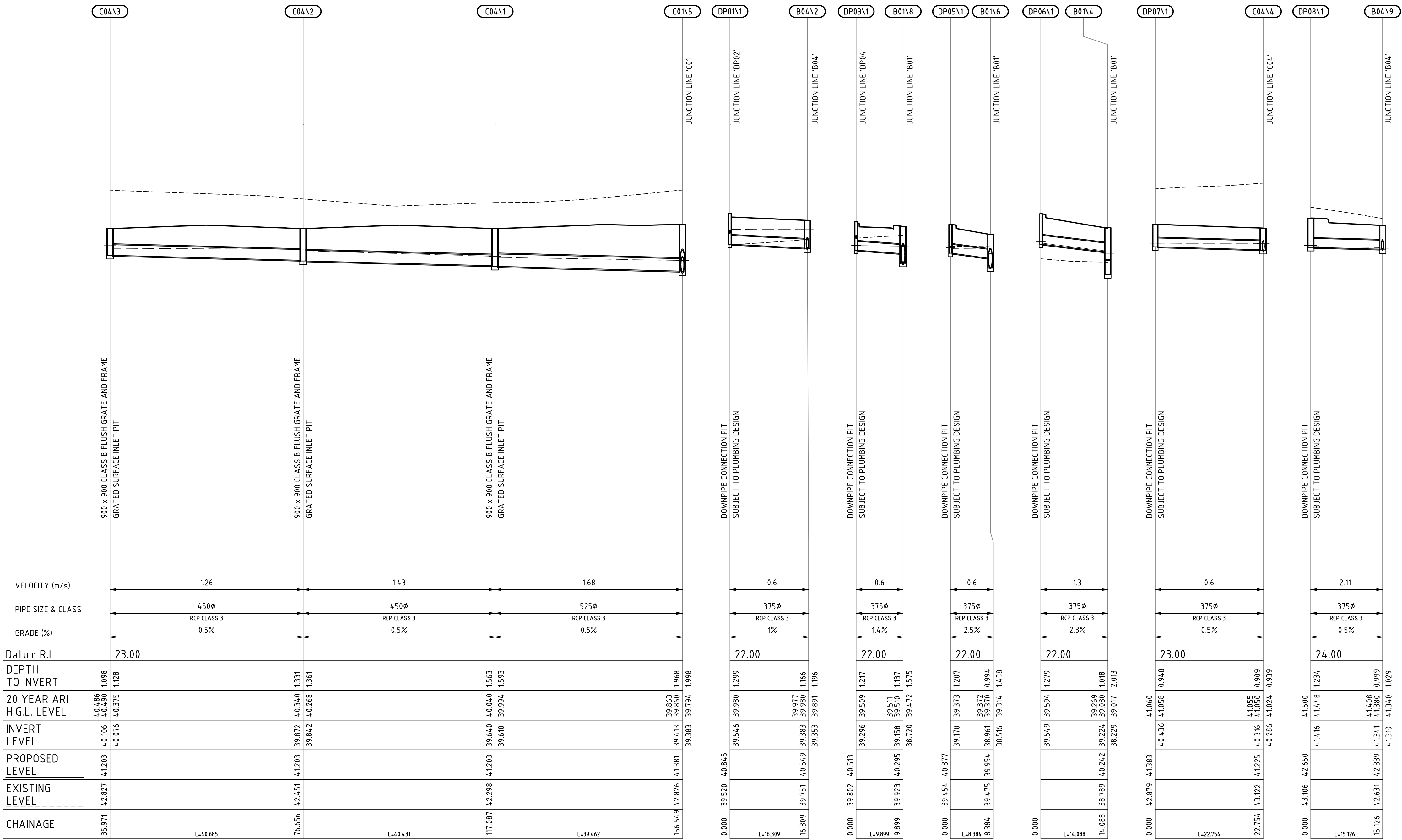
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Level 9, The Forum, 203 Pacific Highway
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Tel: 02 9496 7700 Fax: 02 9439 5170
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Checked	DAC	Date	09.07.15
Designed	AS	Date	09.07.15
Verified	DAC	Date	09.07.15
Approved	SCP	Date	09.07.15

Client	FDC BUILDING
Project	IKEA MFLU MARSDEN PARK INDUSTRIAL PRECINCT DEVELOPMENT APPLICATION
Title	STORMWATER DRAINAGE LONGITUDINAL SECTIONS SHEET 5

Status			
FOR APPROVAL			
NOT TO BE USED FOR CONSTRUCTION PURPOSES			
Datum		Scale	Size
AHD		AS SHOWN	A1
Drawing Number			Revision
80215051-01-1465			6



LINE C04

LINE DP01

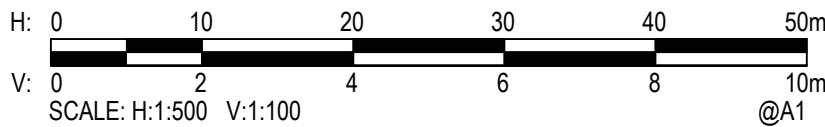
LINE DP03

LINE DP05

LINE DP06

LINE DP07

LINE DP08



Rev.	Date	Description	Des.	Verif.	Appd.
6	09.07.15	REISSUED FOR DEVELOPMENT APPLICATION	AS	DAC	SCP
5	06.07.15	REISSUED FOR DEVELOPMENT APPLICATION	AS	DAC	SCP
4	10.06.15	REISSUED FOR TENDER	AS	DAC	SCP
3	29.05.15	ISSUED FOR TENDER	AS	DAC	SCP
2	04.05.15	FINAL DEVELOPMENT APPLICATION	AS	DAC	SCP
1	23.04.15	DEVELOPMENT APPLICATION	AS	DAC	SCP



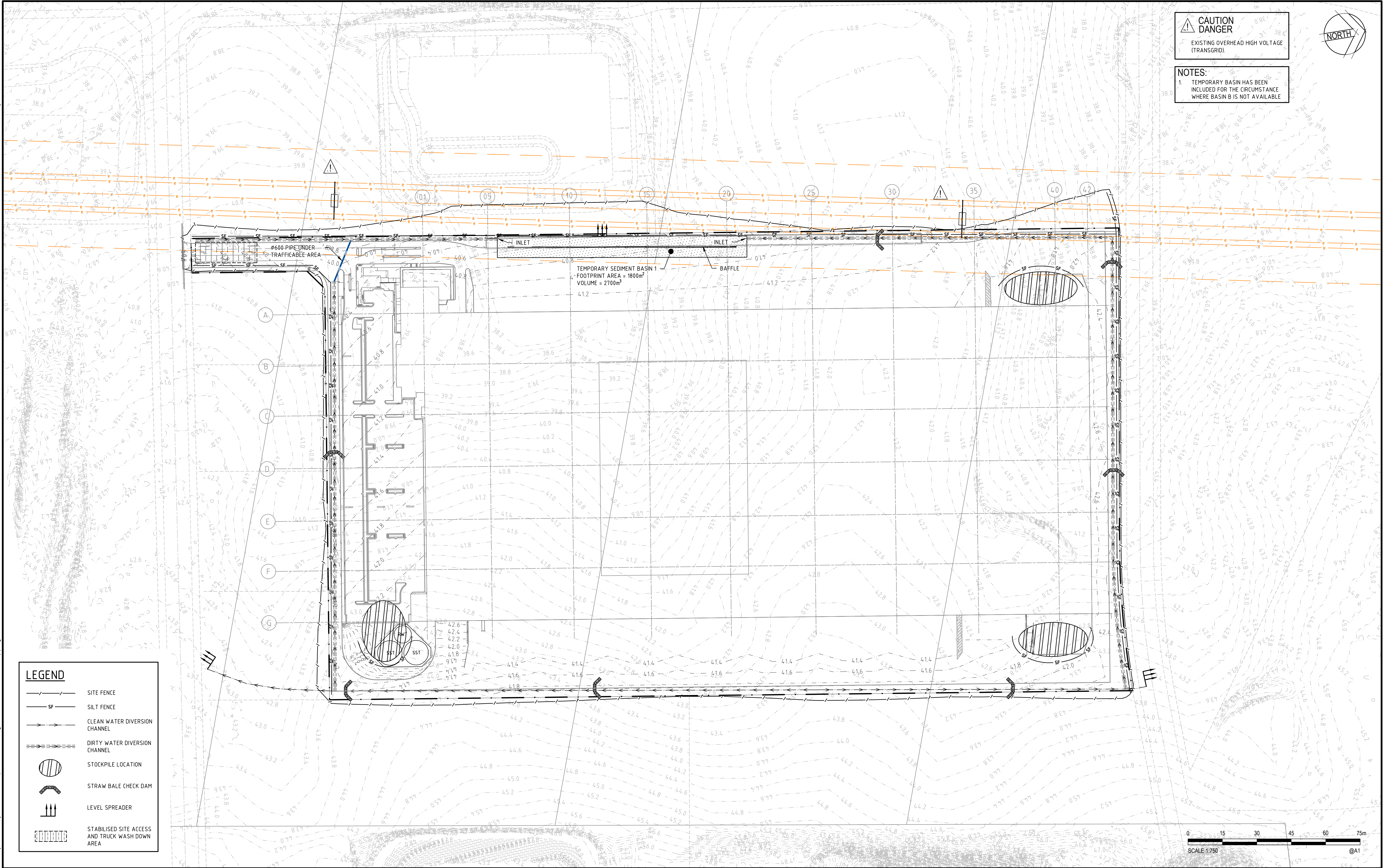
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Drawn	BJH	Date	09.07.15
Checked	DAC	Date	09.07.15
Designed	AS	Date	09.07.15
Verified	DAC	Date	09.07.15
Approved	SCP	Date	09.07.15

Client	FDC BUILDING
Project	IKEA MFLU MARSDEN PARK INDUSTRIAL PRECINCT DEVELOPMENT APPLICATION
Title	STORMWATER DRAINAGE LONGITUDINAL SECTIONS SHEET 6

Status	FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION PURPOSES	
Datum	AHD
Scale	AS SHOWN
Size	A1
Drawing Number	80215051-01-1466
Revision	6



CAUTION DANGER
EXISTING OVERHEAD HIGH VOLTAGE (TRANSGRID)

NOTES:
1. TEMPORARY BASIN HAS BEEN INCLUDED FOR THE CIRCUMSTANCE WHERE BASIN B IS NOT AVAILABLE

LEGEND	
	SITE FENCE
	SILT FENCE
	CLEAN WATER DIVERSION CHANNEL
	DIRTY WATER DIVERSION CHANNEL
	STOCKPILE LOCATION
	STRAW BALE CHECK DAM
	LEVEL SPREADER
	STABILISED SITE ACCESS AND TRUCK WASH DOWN AREA

Rev.	Date	Description	Des.	Verif.	Appd.
5	06.07.15	REISSUED FOR DEVELOPMENT APPLICATION	AS	DAC	SCP
4	10.06.15	REISSUED FOR TENDER	AS	DAC	SCP
3	29.05.15	ISSUED FOR TENDER	AS	DAC	SCP
2	04.05.15	FINAL DEVELOPMENT APPLICATION	AS	DAC	SCP
1	23.04.15	DEVELOPMENT APPLICATION	AS	DAC	SCP



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Drawn	BJH	Date	06.07.15
Checked	DAC	Date	06.07.15
Designed	AS	Date	06.07.15
Verified	DAC	Date	06.07.15
Approved	SCP	Date	06.07.15

Client	FDC BUILDING
Project	IKEA MFLU MARSDEN PARK INDUSTRIAL PRECINCT DEVELOPMENT APPLICATION
Title	EROSION & SEDIMENT CONTROL PLAN

Status	FOR APPROVAL
Datum	AHD
Scale	1:750
Size	A1
Drawing Number	80215051-01-1521
Revision	5

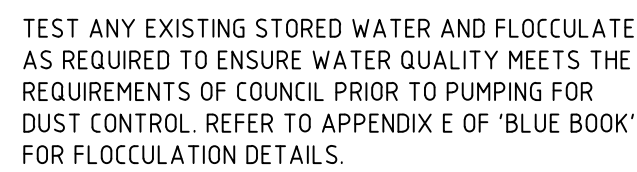
Description of site: IKEA Warehouse

Soil analysis							
Soil landscape							DIPNR mapping (if relevant)
Soil Texture Group	D						Sections 6.3.3(c), (d) and (e)

Design rainfall depth (days)	5						See Sections 6.3.4 (d) and (e)
Design rainfall depth (percentile)	80						See Sections 6.3.4 (f) and (g)
x-day, y-percentile rainfall event	27.4						See Section 6.3.4 (h)
Rainfall intensity: 2-year, 6-hour storm	10.1						See IFD chart for the site
Rainfall erosivity (R-factor)	2250						Automatic calculation from above data

A = total catchment area (ha)

STABILISED SITE ACCESS AND TRUCK WASH DOWN AREA



Status				FOR APPROVAL			
NOT TO BE USED FOR CONSTRUCTION PURPOSES							
Datum				Scale		Size	
AHD				AS SHOWN		A1	
Drawing Number						Revision	
80215051-01-1531						5	