BUILDING 2 & 3 SSD 17161650
HDBP STAGE 2
COWPASTURE ROAD, WETHERILL PARK NSW

DRAWING LIST:

DRAWING NO.	DRAWING TITLE
C011492.19-DA10	DRAWING LIST & GENERAL NOTES
C011492.19-DA20	EROSION & SEDIMENT CONTROL PLAN
C011492.19-DA25	EROSION & SEDIMENT CONTROL DETAILS
C011492.19-DA40	DRAWING KEY PLAN
C011492.19-DA41	CONCEPT STORMWATER PLAN - SHEET 1
C011492.19-DA42	CONCEPT STORMWATER PLAN - SHEET 2
C011492.19-DA45	CONCEPT STORMWATER DETAILS-SHEET 1
C011492.19-DA51	FINISHED LEVELS PLAN-SHEET 1
C011492.19-DA52	FINISHED LEVELS PLAN-SHEET 2
C011492.19-DA53	TYPICAL SECTIONS

GENERAL NOTES:

G1 THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL ARCHITECTURAL AND OTHER CONSULTANTS' DRAWINGS AND SPECIFICATIONS AND WITH SUCH OTHER WRITTEN INSTRUCTIONS AS MAY BE ISSUED DURING THE COURSE OF THE CONTRACT. ANY DISCREPANCY SHALL BE REFERRED TO THE ENGINEER BEFORE PROCEEDING WITH THE WORK.

G2 ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE RELEVANT AND CURRENT STANDARDS AUSTRALIA CODES AND WITH THE BY-LAWS AND ORDINANCES OF THE RELEVANT BUILDING AUTHORITIES EXCEPT WHERE VARIED BY THE PROJECT SPECIFICATION.

G3 ALL DIMENSIONS SHOWN SHALL BE VERIFIED BY THE BUILDER ON SITE.
ENGINEER'S DRAWINGS SHALL NOT BE SCALED FOR DIMENSIONS.
ENGINEER'S DRAWINGS ISSUED IN ANY ELECTRONIC FORMAT MUST NOT BE USED FOR DIMENSIONAL SETOUT.
REFER TO THE ARCHITECT'S DRAWINGS FOR ALL DIMENSIONAL SETOUT INFORMATION.

G4 DURING CONSTRUCTION THE STRUCTURE SHALL BE MAINTAINED IN A STABLE CONDITION AND NO PART SHALL BE OVERSTRESSED. TEMPORARY BRACING SHALL BE PROVIDED BY THE BUILDER TO KEEP THE WORKS AND EXCAVATIONS STABLE AT ALL TIMES.

G5 UNLESS NOTED OTHERWISE ALL LEVELS ARE IN METRES AND ALL DIMENSIONS ARE IN MILLIMETRES.

G6 ALL WORKS SHALL BE UNDERTAKEN IN ACCORDANCE WITH ACCEPTABLE SAFETY STANDARDS & APPROPRIATE SAFETY SIGNS SHALL BE INSTALLED AT ALL TIMES DURING THE PROGRESS OF THE JOB.

EROSION CONTROL NOTES :

ALL CONTROL WORK INCLUDING DIVERSION BANKS AND CATCH DRAINS, V-DRAINS AND SILT FENCES SHALL BE COMPLETED DIRECTLY FOLLOWING THE COMPLETION OF THE EARTHWORKS.

1. SILT FENCES AND SILT FENCE RETURNS SHALL BE ERECTED CONVEX TO THE CONTOUR TO POND WATER.
2. HAY BALE BARRIERS AND GEOFABRIC FENCES ARE TO BE CONSTRUCTED TO TOE OF BATTER, PRIOR TO COMMENCEMENT OF EARTHWORKS, IMMEDIATELY AFTER CLEARING OF VEGETATION AND BEFORE REMOVAL OF TOP SOIL.
3. ALL TEMPORARY EARTH BERMS, DIVERSION AND SILT DAM EMBANKMENTS ARE TO BE MACHINE COMPACTED, SEEDED AND MULCHED FOR TEMPORARY VEGETATION COVER AS SOON AS THEY HAVE BEEN FORMED.
4. CLEAR WATER IS TO BE DIVERTED AWAY FROM DISTURBED GROUND AND INTO THE DRAINAGE SYSTEM.
5. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING AND PROVIDING ON GOING ADJUSTMENT TO EROSION CONTROL MEASURES AS REQUIRED DURING CONSTRUCTION.
6. ALL SEDIMENT TRAPPING STRUCTURES AND DEVICES ARE TO BE INSPECTED AFTER STORMS FOR STRUCTURAL DAMAGE OR CLOGGING, TRAPPED MATERIAL IS TO BE REMOVED TO A SAFE, APPROVED LOCATION.
7. ALL FINAL EROSION PREVENTION MEASURES INCLUDING THE ESTABLISHMENT OF GRASSING ARE TO BE MAINTAINED UNTIL THE END OF THE DEFECTS LIABILITY PERIOD.
8. ALL EARTHWORKS AREAS SHALL BE ROLLED ON A REGULAR BASIS TO SEAL THE EARTHWORKS.
9. ALL FILL AREAS ARE TO BE LEFT WITH A BUND AT THE TOP OF THE SLOPE AT THE END OF EACH DAYS EARTHWORKS. THE HEIGHT OF THE BUND SHALL BE A MINIMUM OF 200MM.
10. ALL CUT AND FILL SLOPES ARE TO BE SEEDED AND HYDROMULCHED WITHIN 10 DAYS OF COMPLETION OF FORMATION.
11. AFTER REVEGETATION OF THE SITE IS COMPLETE AND THE SITE IS STABLE IN THE OPINION OF A SUITABLY QUALIFIED PERSON ALL TEMPORARY WORK SUCH AS SILT FENCE, DIVERSION DRAINS ETC SHALL BE REMOVED.
12. ALL TOPSOIL STOCKPILES ARE TO BE SUITABLY COVERED TO THE SATISFACTION OF THE SITE MANAGER TO PREVENT WIND AND WATER EROSION.
13. ANY AREA THAT IS NOT APPROVED BY THE CONTRACT ADMINISTRATOR FOR CLEARING OR DISTURBANCE BY THE CONTRACTOR'S ACTIVITIES SHALL BE CLEARLY MARKED AND SIGN POSTED, FENCED OFF OR OTHERWISE APPROPRIATELY PROTECTED AGAINST ANY SUCH DISTURBANCE.
14. ALL STOCKPILE SITES SHALL BE SITUATED IN AREAS APPROVED FOR SUCH USE BY THE SITE MANAGER. A 6m BUFFER ZONE SHALL EXIST BETWEEN STOCKPILE SITES AND ANY STREAM OR FLOW PATH. ALL STOCKPILES SHALL BE ADEQUATELY PROTECTED FROM EROSION AND CONTAMINATION OF THE SURROUNDING AREA BY USE OF THE MEASURES APPROVED IN THE EROSION AND SEDIMENTATION CONTROL PLAN.
15. ACCESS AND EXIT AREAS SHALL INCLUDE SHAKE-DOWN OR OTHER METHODS APPROVED BY THE SITE MANAGER FOR THE REMOVAL OF SOIL MATERIALS FORM MOTOR VEHICLES.
16. THE CONTRACTOR IS TO ENSURE RUNOFF FROM ALL AREAS WHERE THE NATURAL SURFACE IS DISTURBED BY CONSTRUCTION, INCLUDING ACCESS ROADS, DEPOT AND STOCKPILE SITES, SHALL BE FREE OF POLLUTANTS BEFORE IT IS EITHER DISPERSED TO STABLE AREAS OR DIRECTED TO NATURAL WATERCOURSES.
17. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN SLOPES, CROWNS AND DRAINS ON ALL EXCAVATIONS AND EMBANKMENTS TO ENSURE SATISFACTORY DRAINAGE AT ALL TIMES WATER SHALL NOT BE ALLOWED TO POND ON THE WORKS UNLESS SUCH PONDING IS PART OF AN APPROVED
ESCP / SWMP.

ELECTRONIC INFORMATION NOTES:

1. THE ISSUED DRAWINGS IN HARD COPY OR PDF FORMAT TAKE PRECEDENCE OVER ANY ELECTRONICALLY ISSUED INFORMATION, LAYOUTS OR DESIGN MODELS.
2. THE CONTRACTOR'S DIRECT AMENDMENT OR MANIPULATION OF THE DATA OR INFORMATION THAT MIGHT BE CONTAINED WITHIN AN ENGINEER-SUPPLIED DIGITAL TERRAIN MODEL AND ITS SUBSEQUENT USE TO UNDERTAKE THE WORKS WILL BE SOLELY AT THE DISCRETION OF AND THE RISK OF THE CONTRACTOR.
3. THE CONTRACTOR IS REQUIRED TO HIGHLIGHT ANY DISCREPANCIES BETWEEN THE DIGITAL TERRAIN MODEL AND INFORMATION PROVIDED IN THE CONTRACT AND/OR DRAWINGS AND IS REQUIRED TO SEEK CLARIFICATION FROM THE SUPERINTENDENT.
4. THE ENGINEER WILL NOT BE LIABLE OR RESPONSIBLE FOR THE POSSIBLE ON-GOING NEED TO UPDATE THE DIGITAL TERRAIN MODEL, SHOULD THERE BE ANY AMENDMENTS OR CHANGES TO THE DRAWINGS OR CONTRACT INITIATED BY THE CONTRACTOR.

SURVEY NOTE:

EXISTING SITE LEVELS AND DETAILS BASED ON A PLAN OF SURVEY 160136A_02 BY MONTEATH & POWYS SURVEYORS 12.10.16 COORDINATES BASED ON MGA COORDINATES AS NOMINATED ON SURVEY DRAWING.

LOCALITY PLAN
NOT TO SCALE

FOR DEVELOPMENT APPLICATION

AMENDMENTS	DATE	ISSUE
ISSUED FOR DEVELOPMENT APPLICATION	09.08.21	A

ARCHITECT: [watch this SPACE design]

CLIENT: Charter Hall

PROJECT: HORSLEY DRIVE BUSINESS PARK
LOT 2&3 DEVELOPMENT
COWPASTURE ROAD, WETHERILL PARK, NSW

DESIGNED	DRAWN	DATE	CHECKED	SIZE	SCALE	CAD REF:
M.C	M.C	JUN 21	M.W	A0	AS SHOWN	C011492.19- DA10

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DRAWING TITLE: DRAWING LIST & GENERAL NOTES

DRAWING No: C011492.19- DA10 ISSUE: A

EROSION AND SEDIMENT CONTROL PLAN

SCALE 1:300

SEDIMENTATION BASIN NOTE:

FOR SEDIMENT & EROSION CONTROL DETAILS REFER TO DRAWING CO11492.19-DA25.

SEDIMENTATION BASIN SIZING BASED ON RECOMMENDATIONS OF 'SOILS AND CONSTRUCTION, MANAGING URBAN STORMWATER-THE BLUE BOOK'.
CAPACITY BASED UPON 5 DAY RAINFALL DEPTH AT 85th PERCENTILE INTENSITY (32.2mm).

APPROXIMATE AREA OF DISTURBED SITE = 19.3 Ha

SEDIMENTATION BASINS TO COLLECT RUN-OFF IN EXTREME RAINFALL EVENTS. COLLECTED RUN-OFF TO BE ASSESSED BY A QUALIFIED LABORATORY FOR DOUSING RATES OF ALUM OR GYPSUM TO ENSURE COAGULATION OF SEDIMENTS PRIOR TO WATER BEING DISCHARGED TO COUNCIL STORMWATER SYSTEM.

EACH BASIN IS TO HAVE A MARKER PLACED AS PER THE DETAIL TO INDICATE WHEN SEDIMENT IS TO BE REMOVED. REMOVED SEDIMENT IS TO BE CLASSED AND DEWATERED PRIOR TO REMOVAL FROM SITE.

ALLOWANCE TO BE MADE DURING BENCHING OF SITE TO ENSURE RUN-OFF IS DIRECTED TO SEDIMENTATION BASINS.

NOTES:

1. ASSUME TYPE D SOIL (CLAY/SILTY CLAY)
2. ASSUME GROUP D SOIL (HIGH PLASTICITY AND SHRINK/SWELL PROPERTIES)

SOIL TYPE ASSESSED FROM GEOTECHNICAL REPORT PROVIDED BY JK GEOTECHNICS TITLED 33158ANRPT2 REV 1 DATED 02.06.20.

LEGEND:

PROVIDE 1m RETURNS TO SILT FENCE AT 30m MAX. INTERVALS. TYPICAL (N.S.O.P.)

- DENOTES DIRECTION OF OVERLAND FLOW
- DENOTES SILT FENCE WITH CATCH DRAIN
- DENOTES SILT FENCE ONLY
- DENOTES DIVERSION DRAIN
- SGGP, SINGLE GRATED GULLY PIT
- SJP, SEALED JUNCTION PIT
- KIP, KERB INLET PIT
- 50.00 FINISHED PAVEMENT CONTOUR (MAJOR) 1.00m INTERVALS
- 50.25 FINISHED PAVEMENT CONTOUR (MINOR) 0.25m INTERVALS

3m 0 5 10 15 20 25 30m

SCALE 1:300 AT A0 SIZE PLOT

FOR DEVELOPMENT APPLICATION

AMENDMENTS	DATE	ISSUE
ISSUED FOR DEVELOPMENT APPLICATION	16.03.21	C
ISSUED FOR DEVELOPMENT APPLICATION	11.03.21	B
ISSUED FOR DEVELOPMENT APPLICATION	09.08.21	A

ARCHITECT: [watch this SPACE design]

CLIENT: Charter Hall

PROJECT: HORSLEY DRIVE BUSINESS PARK LOT 2&3 DEVELOPMENT
COWPASTURE ROAD, WETHERILL PARK, NSW

DESIGNED	DRAWN	DATE	CHECKED	SIZE	SCALE	CAD REF:
M.C	M.C	JUN 21	M.W	A0	AS SHOWN	Co11492.19-DA20

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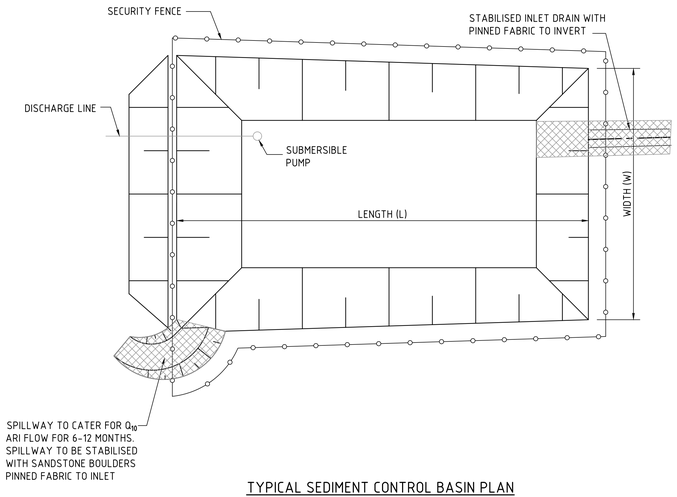
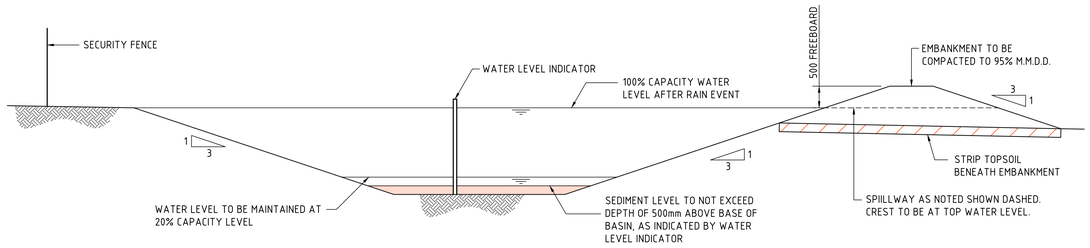
DRAWING TITLE: EROSION AND SEDIMENT CONTROL PLAN

DRAWING No: Co11492.19-DA20 ISSUE: C



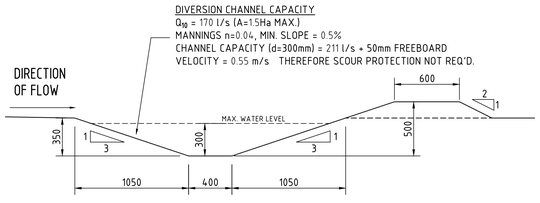
TYPICAL SEDIMENT CONTROL BASIN PLAN

SCALE 1:250



TYPICAL SEDIMENT CONTROL BASIN SECTION

SCALE 1:50



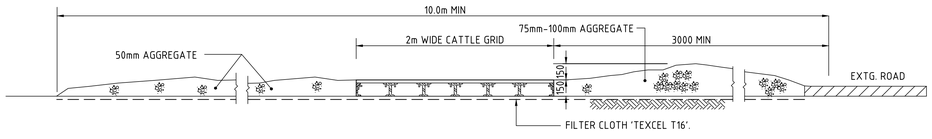
DIVERSION DRAIN TYPE 1 SECTION -2500 WIDE

SCALE 1:20

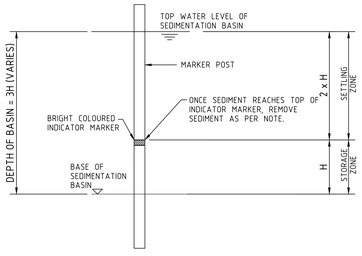
TEMPORARILY PROTECT THE SWALE FROM EROSION DURING CONSTRUCTION.

TEMPORARY DIVERSION DRAINS & EARTHEN CLEAN WATER DIVERSION DRAINS SHALL BE STABILISED BY:

a. TURF REINFORCEMENT; OR
b. GEOFABRIC LINER; OR
c. POLYMER HYDRAULIC SOIL STABILISER. DOSAGE TO BE TO MANUFACTURER'S SPECIFICATION FOR FLOW RATES NOMINATED. DOSAGE SHALL BE SUCH THAT C=0.05.

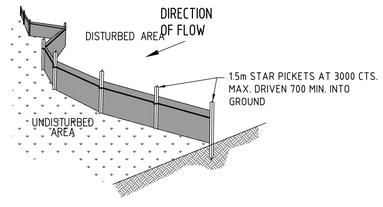


SECTION 1:20 (1 / -) : STABILISED CONSTRUCTION ENTRANCE 'TRUCK SHAKER'



SEDIMENT STORAGE MARKER

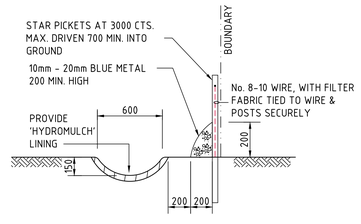
SCALE 1:20



TYPICAL SILT FENCE DETAIL

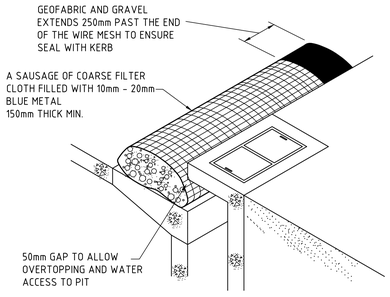
N.T.S.

PROVIDE 1m RETURNS AT 30m INTERVALS. TYPICAL



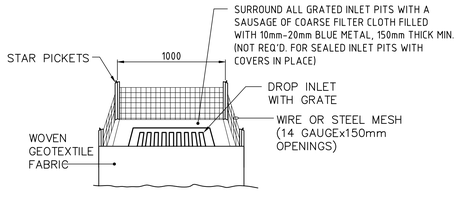
TYPICAL OPEN DRAIN & SILT FENCE

SCALE 1:20



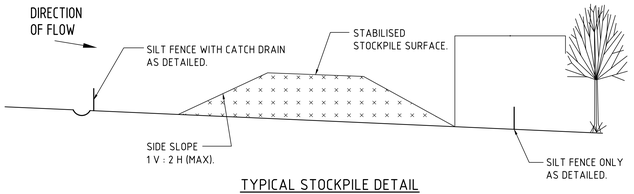
KERB INLET PIT CONTROL

N.T.S



GRATED INLET PIT FILTER DETAIL

N.T.S



TYPICAL STOCKPILE DETAIL

N.T.S.

STOCKPILE NOTES

1. PLACE ALL STOCKPILES IN LOCATIONS MORE THAN 5m FROM EXISTING VEGETATION, ROADS & HAZARD AREAS.
2. CONSTRUCT ON THE CONTOUR AS LOW, FLAT ELONGATED MOUNDS. SIDE SLOPE TO BE 1 V: 2 H MAX.
3. WHERE THERE IS SUFFICIENT AREA, TOPSOIL STOCKPILES SHALL BE LESS THAN 2m IN HEIGHT.
4. WHERE STOCKPILES ARE TO BE IN PLACE FOR MORE THAN 10 DAYS, SUITABLY STABILISE OR COVER THE STOCKPILES.
5. CONSTRUCT SILT FENCE WITH CATCH DRAIN ON UPSLOPE SIDE TO DIVERT WATER AROUND STOCKPILES & SILT FENCE ONLY 1 TO 2m DOWNSLOPE AS SHOWN.

NOTES:

ALL EROSION & SEDIMENT CONTROL MEASURES TO BE INSPECTED & MAINTAINED DAILY BY SITE MANAGER.

MINIMISE DISTURBED AREAS.

ROADS & FOOTPATHS TO BE SWEPT DAILY.

1.2m TURF TO BE PLACED BEHIND KERBS.

DUST MINIMISATION CONTROL BY WATERING TO BE IMPLEMENTED BY SITE MANAGER AS REQUIRED OR AS DIRECTED BY THE EPA.

NOTE - ADOPT ABOVE DETAILS AROUND ALL PITS WITHIN AREA ENCOMPASSED BY SILT FENCE & TO PITS ON THE ROAD ADJACENT TO SITE BOUNDARY.

200mm 0 500 1000 1500 2000mm
1:20 AT A0 SIZE PLOT

500mm 0 1 2 3 4 5m
1:50 AT A0 SIZE PLOT

2m 0 5 10 15 20 25m
1:250 AT A0 SIZE PLOT

FOR DEVELOPMENT APPLICATION

AMENDMENTS	DATE	ISSUE
ISSUED FOR DEVELOPMENT APPLICATION	09.08.21	A

ARCHITECT: [watch this SPACE design]

CLIENT: Charter Hall

PROJECT: HORSLEY DRIVE BUSINESS PARK
LOT 2&3 DEVELOPMENT
COWPASTURE ROAD, WETHERILL PARK, NSW

DESIGNED	DRAWN	DATE	CHECKED	SIZE	SCALE	CAD REF:
M.C	M.C	JUN 21	M.W	A0	AS SHOWN	Co11492.19-DA25

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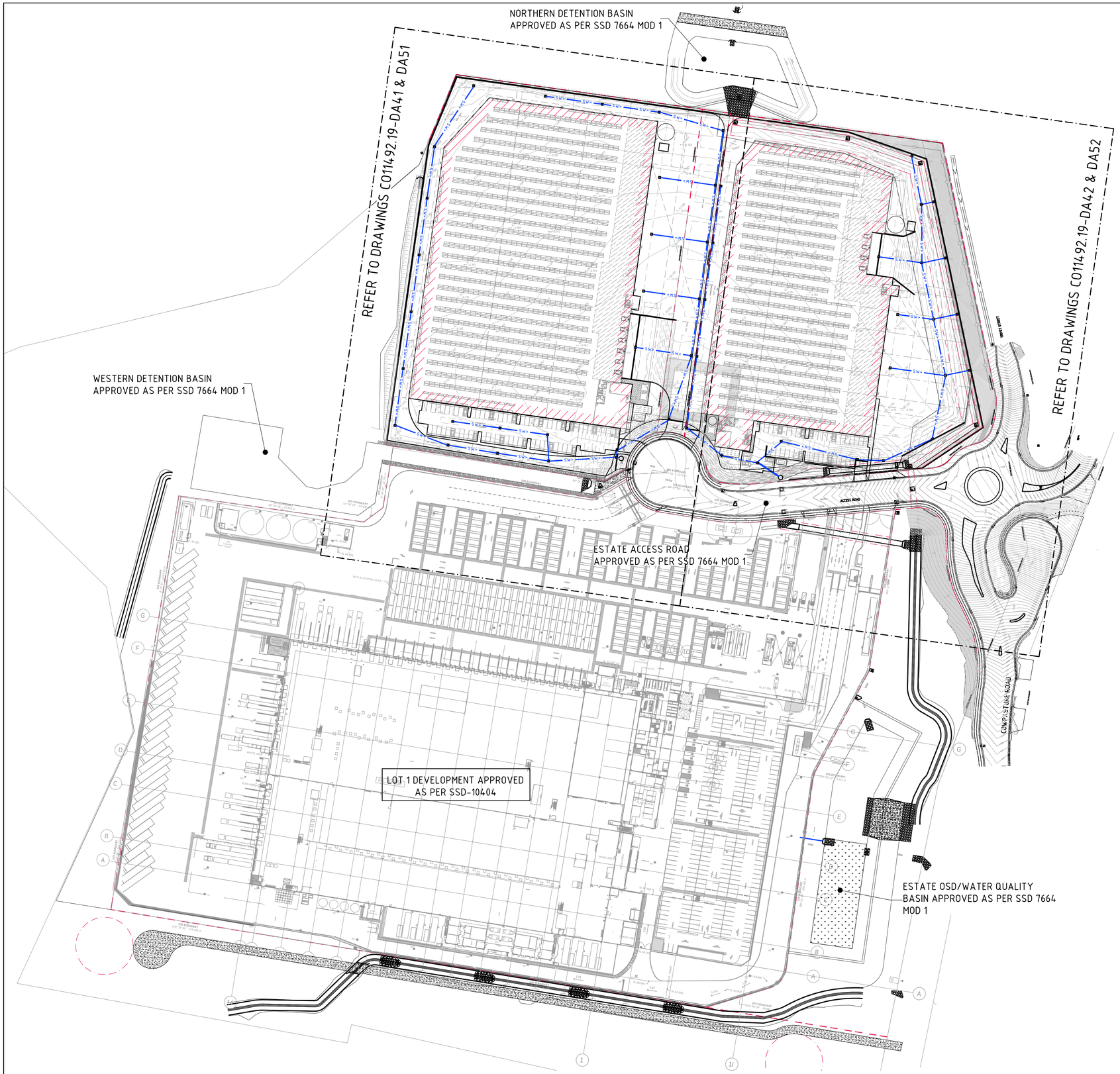
DRAWING TITLE: EROSION & SEDIMENT CONTROL DETAILS

DRAWING No: Co11492.19- DA25 ISSUE: A



STORMWATER DRAINAGE NOTES:

1. ALL STORMWATER WORKS TO BE COMPLETED IN ACCORDANCE WITH AUSTRALIAN STANDARD AS3500.3:2003 PLUMBING AND DRAINAGE, PART 3: STORMWATER DRAINAGE.
2. THE MINOR (PIPED) SYSTEM HAS BEEN DESIGNED FOR THE 1 IN 20 YEAR ARI STORM EVENT AND THE MAJOR (OVERLAND) SYSTEM HAS BEEN DESIGNED FOR THE 1 IN 100 YEAR ARI STORM EVENT.
3. ALL FINISHED PAVEMENT LEVELS SHALL BE AS INDICATED ON FINISHED LEVELS PLANS .
4. PIT SIZES SHALL BE AS INDICATED IN THE SCHEDULE WHILE PIPE SIZES AND DETAILS ARE PROVIDED ON PLAN.
5. EXISTING STORMWATER PIT LOCATIONS AND INVERT LEVELS TO BE CONFIRMED BY SURVEY PRIOR TO COMMENCING WORKS ON SITE.
6. ALL STORMWATER PIPES Ø375 OR GREATER SHALL BE CLASS 2 REINFORCED CONCRETE WITH RUBBER RING JOINTS UNLESS NOTED OTHERWISE.
7. ALL PIPES UP TO AND INCLUDING Ø300 TO BE uPVC GRADE SN8 UNO.
8. PIPE CLASS NOMINATED ARE FOR IN-SERVICE LOADING CONDITIONS ONLY. CONTRACTOR IS TO MAKE ANY NECESSARY ADJUSTMENTS REQUIRED FOR CONSTRUCTION CONDITIONS.
9. ALL CONCRETE PITS GREATER THAN 1000mm DEEP SHALL BE REINFORCED USING N12-200 EACH WAY CENTERED IN WALL AND BASE. LAP MINIMUM 300mm WHERE REQUIRED. ALL CONCRETE FOR PITS SHALL BE F'c 32 MPA. PRECAST PITS MAY BE USED WITH THE APPROVAL OF THE ENGINEER.
10. IN ADDITION TO ITEM 6 ABOVE, ALL CONCRETE PITS GREATER THAN 3000mm DEEP SHALL HAVE WALLS AND BASE THICKNESS INCREASED TO 200mm.
11. PIPES SHALL BE LAID AS PER PIPE LAYING DETAILS. PARTICULAR CARE SHALL BE TAKEN TO ENSURE THAT THE PIPE IS FULLY AND EVENLY SUPPORTED. RAM AND PACK FILLING AROUND AND UNDER BACK OF PIPES AND PIPE FAUCETS, WITH NARROW EDGED RAMMERS OR OTHER SUITABLE TAMPING DETAILS.
12. WHERE PIPE LINES ENTER PITS, PROVIDE 2m LENGTH OF STOCKING WRAPPED SLOTTED Ø100 uPVC TO EACH SIDE OF PIPE.
13. ALL SUBSOIL DRAINAGE LINES SHALL BE Ø100 SLOTTED uPVC WITH APPROVED FILTER WRAP LAID IN 300mm WIDE GRANULAR FILTER UNLESS NOTED OTHERWISE. LAY SUBSOIL LINES TO MATCH FALLS OF LAND AND/OR 1 IN 200 MINIMUM. PROVIDE CAPPED CLEANING EYE (RODDING POINT) AT UPSTREAM END OF LINE AND AT 30m MAX. CTS. PROVIDE SUBSOIL LINES TO ALL PAVEMENT/ LANDSCAPED INTERFACES, TO REAR OF RETAINING WALLS (AS NOMINATED BY STRUCTURAL ENGINEER) AND AS SHOWN ON PLAN.
14. ALL PIPE GRADES 1 IN 100 MINIMUM UNO.
15. PROVIDE STEP IRONS IN PITS DEEPER THAN 1000mm.
16. MIN. 600 COVER TO PIPE OBVERT BENEATH ROADS & MIN. 400 COVER BENEATH LANDSCAPED AND PEDESTRIAN AREAS.
17. PIT COVERS IN TRAFFICABLE PAVEMENT SHALL BE CLASS D 'HEAVY DUTY', THOSE LOCATED IN NON-TRAFFICABLE AREAS SHALL BE CLASS B 'MEDIUM DUTY' U.N.O.
18. PROVIDE CLEANING EYES (RODDING POINTS) TO PIPES AT ALL CORNERS AND T-JUNCTIONS WHERE NO PITS ARE PRESENT.
19. PIPE LENGTHS NOMINATED ON PLAN OR LONGSECTIONS ARE MEASURED FROM CENTER OF PITS TO THE NEAREST 0.5m AND DO NOT REPRESENT ACTUAL LENGTH. THE CONTRACTOR IS TO ALLOW FOR THIS.

FINISHED LEVELS PLAN NOTES :

1. LEVELS DATUM IS A.H.D.
2. ALL CONTOUR LINES & SPOT LEVELS INDICATE FINISHED PAVEMENT LEVELS U.N.O. ON PLAN.
3. THE MAJOR CONTOUR INTERVAL IS 0.5m
4. THE MINOR CONTOUR INTERVAL IS 0.1m.
5. MINIMUM PAVEMENT GRADE IS TO BE 1:100 (1%).
6. MAXIMUM PAVEMENT GRADE IS TO BE 1:20 (5%) IN CARPARKING AREAS AND 1:25 (4%) ELSEWHERE.
7. MAXIMUM RAMP GRADES ARE TO BE 1:12 (8.3%) U.N.O. ON PLAN
8. PROVIDE MINIMUM 3.0m LONG TRANSITION WHERE CHANGES GRADE EXCEDE 1:20 (5%).
9. PERMANENT BATTER SLOPES ARE TO HAVE A MAXIMUM GRADE OF 1V:3H.
10. ALL BATTER SLOPES WITH GRADES AT OR EXCEDING 1V:6H ARE TO BE TURFED IMMEDIATELY, OR APPROPRIATE EROSION CONTROL IS TO BE PROVIDED TO THE SATISFACTION OF THE ENGINEER.
11. ALL FOOTPATHS ARE TO FALL AWAY FROM THE BUILDING AT 2.5% NOMINAL GRADE.
12. ALL PAVEMENTS ARE TO BE SET AT 50mm BELOW THE FINISHED FLOOR LEVEL OF THE WAREHOUSE AND OFFICE AREAS.

DRAWING KEY PLAN
SCALE 1:750

FOR DEVELOPMENT APPLICATION

6m 0 15 30 45 60 75m
SCALE 1:750 AT A0 SIZE PLOT

AMENDMENTS	DATE	ISSUE
ISSUED FOR DEVELOPMENT APPLICATION	16.03.22	D
ISSUED FOR DEVELOPMENT APPLICATION	11.03.22	C
ISSUED FOR DEVELOPMENT APPLICATION	09.08.21	B
FOR INFORMATION	04.06.21	A

ARCHITECT: watch this SPACE design

CLIENT: Charter Hall

PROJECT: HORSLEY DRIVE BUSINESS PARK
LOT 2&3 DEVELOPMENT
COWPASTURE ROAD, WETHERILL PARK, NSW

DESIGNED	DRAWN	DATE	CHECKED	SIZE	SCALE	CAD REF:
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DRAWING TITLE: DRAWING KEY PLAN
DRAWING NO: C01492.19- DA40
ISSUE: D

LEGEND:

LEVELS DATUM IS AHD.

EXISTING SITE LEVELS AND DETAILS BASED ON SURVEY INFORMATION PROVIDED BY AWJ CIVIL DATED 19.05.21.

- SGGP, SINGLE GRATED GULLY PIT
- SJP, SEALED JUNCTION PIT
- GD, GRATED DRAIN (300W x 225D UNO)
- DRAINAGE LINE
- ESTATE DRAINAGE LINE
- ROOFWATER DOWNPIPE (INDICATIVE)
- ROOFWATER LINE
- SUBSOIL LINE
- OVERLAND FLOW PATH
- FINISHED PAVEMENT CONTOUR (MAJOR) 0.5m INTERVALS
- FINISHED PAVEMENT CONTOUR (MINOR) 0.1m INTERVALS

SITE BOUNDARY
° 34' 09" 22.707 m

SITE BOUNDARY

PROPOSED BUILDING
FFL 67.65
+/-500mm

GROSS POLLUTANT TRAP
OCEAN PROTECT OCEANSAVE
1515 UNIT OR APPROVED
EQUIVALENT BY THE ENGINEER

EXISTING KERB INLET PIT TO BE CONVERTED TO GRATED PIT IN DRIVE CROSSING. PROVIDE DISHED GRATE TO MATCH DRIVEWAY PROFILE

DISCHARGE TO 825ø STUB. I.L63.65

EXISTING BOUNDARY

PROPOSED BOUNDARY

SITE BOUNDARY 24.33 m

BREAKLINE - REFER TO DRAWING DA42 FOR CONTINUATION

CONCEPT STORMWATER PLAN - SHEET 1
SCALE 1:250

2m 0 5 10 15 20 25m
SCALE 1:250 AT A0 SIZE PLOT

FOR DEVELOPMENT APPLICATION

AMENDMENTS	DATE	ISSUE
ISSUED FOR DEVELOPMENT APPLICATION	11.03.22	D
ISSUED FOR DEVELOPMENT APPLICATION	09.08.21	C
REVISED OFFICE LAYOUT	10.06.21	B
FOR INFORMATION	04.06.21	A

ARCHITECT: watch this SPACE design

CLIENT: Charter Hall

PROJECT: HORSLEY DRIVE BUSINESS PARK
LOT 2&3 DEVELOPMENT
COWPASTURE ROAD, WETHERILL PARK, NSW

DESIGNED	DRAWN	DATE	CHECKED	SIZE	SCALE	CAD REF:
M.C	M.C	JUN 21	M.W	A0	AS SHOWN	Co11492.19-DA41

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PRECISION | COMMUNICATION | ACCOUNTABILITY

DRAWING TITLE: CONCEPT STORMWATER PLAN SHEET 1

DRAWING No: Co11492.19- DA41 ISSUE: D

LEGEND:

LEVELS DATUM IS AHD.

EXISTING SITE LEVELS AND DETAILS BASED ON SURVEY INFORMATION PROVIDED BY AWJ CIVIL DATED 19.05.21.

- SGGP, SINGLE GRATED GULLY PIT
- SJP, SEALED JUNCTION PIT
- GD, GRATED DRAIN (300W x 225D UNO)
- DRAINAGE LINE
- ESTATE DRAINAGE LINE
- ROOFWATER DOWNPIPE (INDICATIVE)
- ROOFWATER LINE
- SUBSOIL LINE
- OVERLAND FLOW PATH
- FINISHED PAVEMENT CONTOUR (MAJOR) 0.5m INTERVALS
- FINISHED PAVEMENT CONTOUR (MINOR) 0.1m INTERVALS

BREAKLINE - REFER TO DRAWING DA41 FOR CONTINUATION

PROPOSED BUILDING
FFL 67.65
+/-500mm

ABOVE GROUND RAINWATER TANK. SIZE T.B.C

GROSS POLLUTANT TRAP OCEAN PROTECT OCEANSAVE 1515 UNIT OR APPROVED EQUIVALENT BY THE ENGINEER.

DISCHARGE TO 825ø STUB. I.L62.75

PROVIDE 2.4m WIDEx0.6m HIGH RCBC FOR OVERLAND FLOW.

CONVERT EXISTING KERB INLET PIT TO CLASS D BUTTERFLY GRATE

EXISTING OVERLAND FLOW PATH TO BE MAINTAINED AS PER ESTATE DESIGN

EXISTING BASIN OVERFLOW TO BE MAINTAINED AND FLOW PATH TO REMAIN AS PER ESTATE DESIGN

ACCESS ROAD

TRIVET STREET

SITE BOUNDARY

PROPOSED BOUNDARY

EXISTING BOUNDARY

CONCEPT STORMWATER PLAN - SHEET 2
SCALE 1:250

FOR DEVELOPMENT APPLICATION

2m 0 5 10 15 20 25m
SCALE 1:250 AT A0 SIZE PLOT

AMENDMENTS	DATE	ISSUE
ISSUED FOR DEVELOPMENT APPLICATION	16.03.22	D
ISSUED FOR DEVELOPMENT APPLICATION	11.03.22	C
ISSUED FOR DEVELOPMENT APPLICATION	09.08.21	B
FOR INFORMATION	04.06.21	A

ARCHITECT: watch this SPACE design

CLIENT: Charter Hall

PROJECT: HORSLEY DRIVE BUSINESS PARK
LOT 2&3 DEVELOPMENT
COWPASTURE ROAD, WETHERILL PARK, NSW

DESIGNED	DRAWN	DATE	CHECKED	SIZE	SCALE	CAD REF
M.C.	M.C.	JUN 21	M.W	A0	AS SHOWN	Co11492.19-DA42

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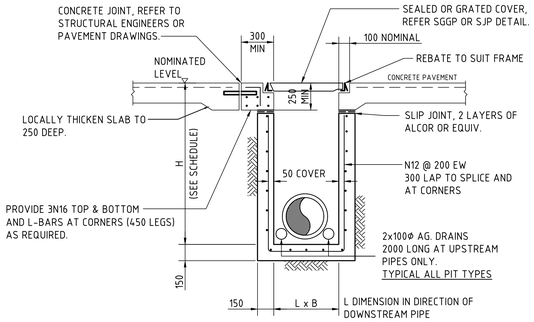
PRECISION | COMMUNICATION | ACCOUNTABILITY

DRAWING TITLE: CONCEPT STORMWATER PLAN SHEET 2

DRAWING No: Co11492.19- DA42

ISSUE: D

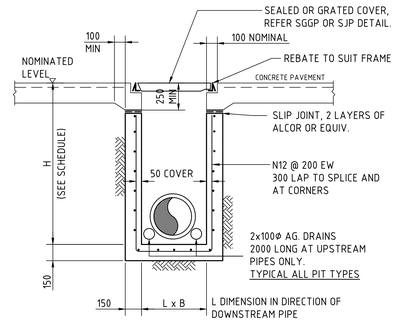


SECTION

SCALE 1:20

SJP/CIS & SGGP/CIS (CAST IN SLAB) PIT DETAIL GRATE/COVER SUPPORT CAST-INTO PAVEMENT SLAB

(ADOPT IN CONCRETE PAVEMENT FOR SGGP's & SJP's, WHERE PITS ARE LOCATED IN THE CORNER OF SLAB PANELS OR ADJACENT TO SLAB PANEL JOINTS)

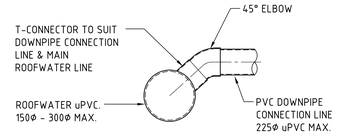


SECTION

SCALE 1:20

SJP/CIS & SGGP/CIS (CAST IN SLAB) PIT DETAIL GRATE/COVER SUPPORT CAST-INTO PAVEMENT SLAB

(ADOPT IN CONCRETE PAVEMENTS FOR SGGP's & SJP's, WHERE JOINTS ARE NOT LOCATED WITHIN PROXIMITY OF THE GRATE)

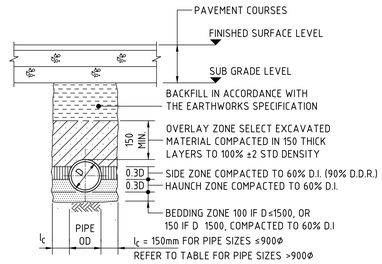


DOWN PIPE CONNECTION TO uPVC PIPE

1. PROPRIETARY T-PIECE CONNECTORS SHALL BE USED TO WHERE DIRECT CONNECTIONS ARE REQUIRED TO uPVC PIPES .
2. ALL JOINTS TO BE SEALED WITH SOLVENT WELDED JOINTS.
3. THE PVC PIPE SHALL NOT PROTUDE BEYOND THE INNER SURFACE OF THE STORMWATER PIPE.

DOWNPIPE CONNECTION DETAILS

SCALE 1:20



TYPE HS2 SUPPORT TO CONCRETE PIPES UNDER PAVEMENT

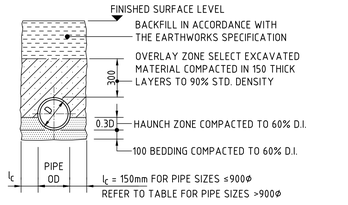
SCALE 1:20

BEDDING & HAUNCH MATERIAL GRADING	
SIEVE SIZE (mm)	WEIGHT PASSING (%)
19.0	100
2.36	100 TO 50
0.60	90 TO 50
0.30	60 TO 10
0.15	25 TO 0
0.075	10 TO 0

SIDE ZONE WIDTH	
PIPE SIZE (mm)	l_c (mm)
≤ 900Φ	150
1050Φ	175
1200Φ	200
1350Φ	225
1500Φ	250
1650Φ	275
1800Φ	300

SIDE ZONE MATERIAL GRADING	
SIEVE SIZE (mm)	WEIGHT PASSING (%)
75.0	100
9.5	100 TO 50
2.36	100 TO 50
0.60	50 TO 15
0.075	25 TO 0

SELECT FILL MATERIAL IN ACCORDANCE WITH TABLE 1 AS 3725

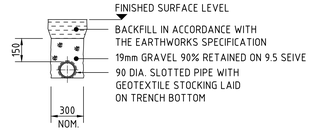


TYPE H1 SUPPORT TO CONCRETE PIPES AT LANDSCAPED AREAS

SCALE 1:20

BEDDING & HAUNCH MATERIAL GRADING	
SIEVE SIZE (mm)	WEIGHT PASSING (%)
19.0	100
2.36	100 TO 50
0.60	90 TO 50
0.30	60 TO 10
0.15	25 TO 0
0.075	10 TO 0

SIDE ZONE WIDTH	
PIPE SIZE (mm)	l_c (mm)
≤ 900Φ	150
1050Φ	175
1200Φ	200
1350Φ	225
1500Φ	250
1650Φ	275
1800Φ	300



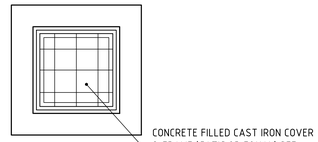
SUPPORT TO AGRICULTURAL DRAIN

SCALE 1:20

SIDE ZONE MATERIAL GRADING	
SIEVE SIZE (mm)	WEIGHT PASSING (%)
19.0	100
9.5	100 TO 50
2.6	100 TO 30
0.60	50 TO 15
0.075	25 TO 0

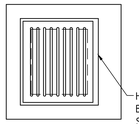
PIPE LAYING DETAILS

1:20



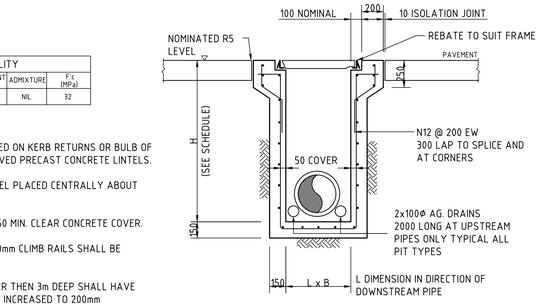
PLAN

1:20



PLAN

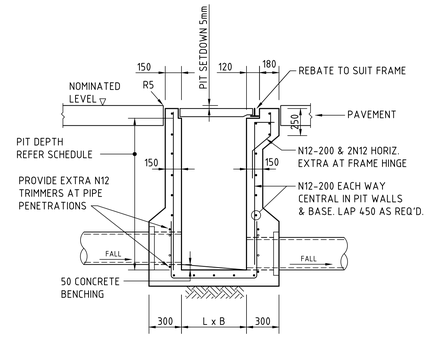
SCALE 1:20



SECTION

SCALE 1:20

SEALED PIT - SP



SECTION

SCALE 1:20

SINGLE GRATED GULLY PIT - SGGP

CONCRETE QUALITY					
ELEMENT	SLUMP	AGGREGATE (MAX SIZE)	CEMENT TYPE	ADMIXTURE	F'c (MPa)
PIT	80	20	GP	NIL	32

PIT NOTES:

1. WHERE GULLY PIT IS LOCATED ON KERB RETURNS OR BULB OF CUL-DE-SACS PROVIDE CURVED PRECAST CONCRETE LINTELS.
2. SAG PITS SHALL HAVE LINTEL PLACED CENTRALLY ABOUT THE GRATE.
3. ALL REINFORCING TO HAVE 50 MIN. CLEAR CONCRETE COVER.
4. FOR PITS DEEPER THAN 1000mm CLIMB RAILS SHALL BE PROVIDED.
5. ALL CONCRETE PITS GREATER THEN 3m DEEP SHALL HAVE WALL AND BASE THICKNESS INCREASED TO 200mm

200mm 0 500 1000 1500 2000mm

SCALE 1:20 AT A0 SIZE PLOT

FOR DEVELOPMENT APPLICATION

AMENDMENTS	DATE	ISSUE
ISSUED FOR DEVELOPMENT APPLICATION	09.08.21	A

ARCHITECT: [watch this SPACE design]

CLIENT: Charter Hall

PROJECT: HORSLEY DRIVE BUSINESS PARK
LOT 2&3 DEVELOPMENT
COWPASTURE ROAD, WETHERILL PARK, NSW

DESIGNED	DRAWN	DATE	CHECKED	SIZE	SCALE	CAD REF:
M.C	M.C	JUN 21	M.W	A0	AS SHOWN	Co11492.19-DA45

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DRAWING TITLE: CONCEPT STROMWATER DETAILS

DRAWING No: Co11492.19- DA45 ISSUE: A

LEGEND:

LEVELS DATUM IS AHD.

EXISTING SITE LEVELS AND DETAILS BASED ON SURVEY INFORMATION PROVIDED BY AWJ CIVIL DATED 19.05.21.

- SGGP, SINGLE GRATED GULLY PIT
- SJP, SEALED JUNCTION PIT
- KIP, KERB INLET PIT
- 50.00 – FINISHED PAVEMENT CONTOUR (MAJOR) 0.5m INTERVALS
- 50.10 – FINISHED PAVEMENT CONTOUR (MINOR) 0.1m INTERVALS
- +50.10 – FINISHED PAVEMENT SPOT HEIGHT

SITE BOUNDARY
° 34' 09" - 22.707 m

EXISTING BOULDER WALL IN FILL. MAX HEIGHT 2.4m.

EXISTING RETAINING WALL IN CUT. MAX HEIGHT 7.4m.

PROPOSED BUILDING
FFL 67.65
+/-500mm

PRE-CAST PANELS TO RETAIN 1.2m MAX

RECESSED DOCK 1300 DEEP

PROVIDE NEW INDUSTRIAL DRIVE CROSSING IN ACCORDANCE WITH FAIRFIELD CITY COUNCIL REQUIREMENTS. ALIGN AND MATCH LEVELS TO COUNCIL BASIN ACCESS DRIVE CROSSING

PROVIDE NEW INDUSTRIAL DRIVE CROSSING IN ACCORDANCE WITH FAIRFIELD CITY COUNCIL REQUIREMENTS.

SITE BOUNDARY
° 34' 09" - 24.33 m

SITE BOUNDARY
° 35' 05" - 27.86 m

EXISTING BOUNDARY

PROPOSED BOUNDARY

EXISTING RETAINING WALL IN CUT. MAX HEIGHT 7.4m.

BREAKLINE - REFER TO DRAWING DA52 FOR CONTINUATION

FINISHED LEVELS PLAN - SHEET 1
SCALE 1:250

2m 0 5 10 15 20 25m
SCALE 1:250 AT A0 SIZE PLOT

FOR DEVELOPMENT APPLICATION

AMENDMENTS	DATE	ISSUE
FOR DEVELOPMENT APPLICATION	11.03.22	C
FOR DEVELOPMENT APPLICATION	09.08.21	B
FOR INFORMATION	04.06.21	A

ARCHITECT: watch this SPACE design

CLIENT: Charter Hall

PROJECT: HORSLEY DRIVE BUSINESS PARK
LOT 2&3 DEVELOPMENT
COWPASTURE ROAD, WETHERILL PARK, NSW

DESIGNED	DRAWN	DATE	CHECKED	SIZE	SCALE	CAD REF:
M.C	M.C	JUN 21	M.W	A0	AS SHOWN	Co11492.19-DA51

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DRAWING TITLE: FINISHED LEVELS PLAN SHEET 1

DRAWING No: Co11492.19- DA51 ISSUE: C

LEGEND:

LEVELS DATUM IS AHD.

EXISTING SITE LEVELS AND DETAILS BASED ON SURVEY INFORMATION PROVIDED BY AWJ CIVIL DATED 19.05.21.

- SGGP, SINGLE GRATED GULLY PIT
- SJP, SEALED JUNCTION PIT
- KIP, KERB INLET PIT
- 50.00 – FINISHED PAVEMENT CONTOUR (MAJOR) 0.5m INTERVALS
- 50.10 – FINISHED PAVEMENT CONTOUR (MINOR) 0.1m INTERVALS
- +50.10 – FINISHED PAVEMENT SPOT HEIGHT

BREAKLINE - REFER TO DRAWING DA41 FOR CONTINUATION

PROVIDE NEW INDUSTRIAL DRIVE CROSSING IN ACCORDANCE WITH FAIRFIELD CITY COUNCIL REQUIREMENTS.

PRE-CAST PANELS TO RETAIN 1.0m MAX

PROPOSED BUILDING
FFL 67.65
+/-500mm

PRE-CAST PANELS TO RETAIN 0.6m MAX

RETAINING WALL
MAX HEIGHT = 1.5m
APPROX AREA = 18m²

RECESSED DOCK 1300 DEEP

EXISTING BASIN OVERFLOW TO BE MAINTAINED AND FLOW PATH TO REMAIN AS PER ESTATE DESIGN

PROVIDE NEW INDUSTRIAL DRIVE CROSSING IN ACCORDANCE WITH FAIRFIELD CITY COUNCIL REQUIREMENTS.

EXISTING OVERLAND FLOW PATH TO BE MAINTAINED AS PER ESTATE DESIGN

EXISTING RETAINING WALL IN CUT. MAX HEIGHT 6.4m. SITE BELOW TRIVET STREET

EXISTING 10m LANDSCAPE SETBACK TO REMAIN

TRIVET STREET

ACCESS ROAD

SITE BOUNDARY

PROPOSED BOUNDARY

EXISTING BOUNDARY

FINISHED LEVELS PLAN - SHEET 2
SCALE 1:250

2m 0 5 10 15 20 25m
SCALE 1:250 AT A0 SIZE PLOT

FOR DEVELOPMENT APPLICATION

AMENDMENTS	DATE	ISSUE
FOR DEVELOPMENT APPLICATION	16.03.22	D
FOR DEVELOPMENT APPLICATION	11.03.22	C
FOR DEVELOPMENT APPLICATION	09.08.21	B
FOR INFORMATION	04.06.21	A

ARCHITECT: watch this SPACE design

CLIENT: Charter Hall

PROJECT: HORSLEY DRIVE BUSINESS PARK
LOT 2&3 DEVELOPMENT
COWPASTURE ROAD, WETHERILL PARK, NSW

DESIGNED	DRAWN	DATE	CHECKED	SIZE	SCALE	CAD REF:
M.C	M.C	JUN 21	M.W	A0	AS SHOWN	Co11492.19-DA52

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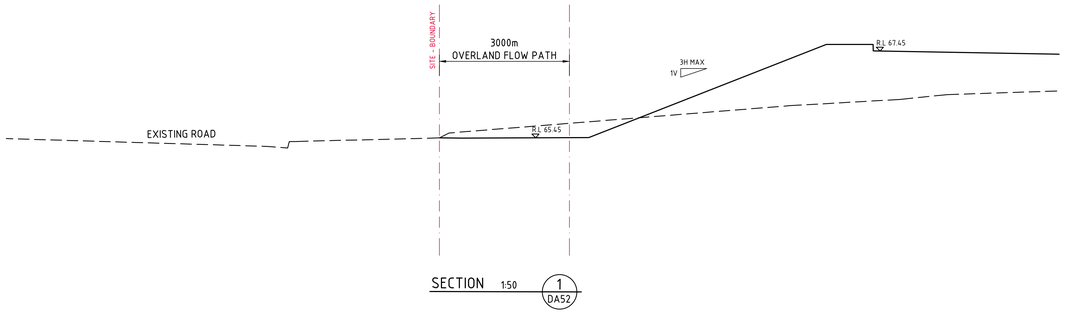
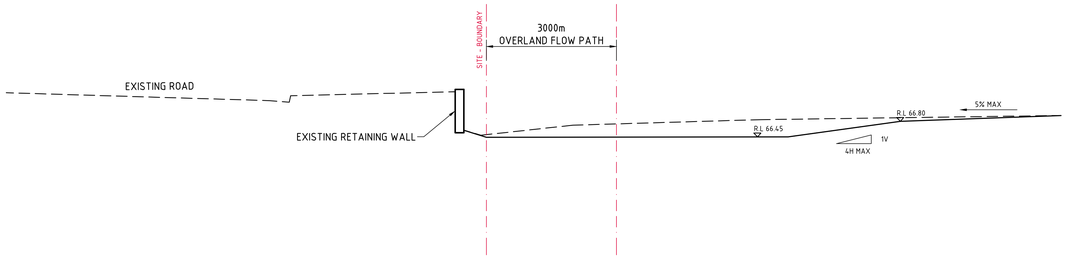
DRAWING: TITLE: FINISHED LEVELS PLAN SHEET 2

DRAWING NO: Co11492.19- DA52

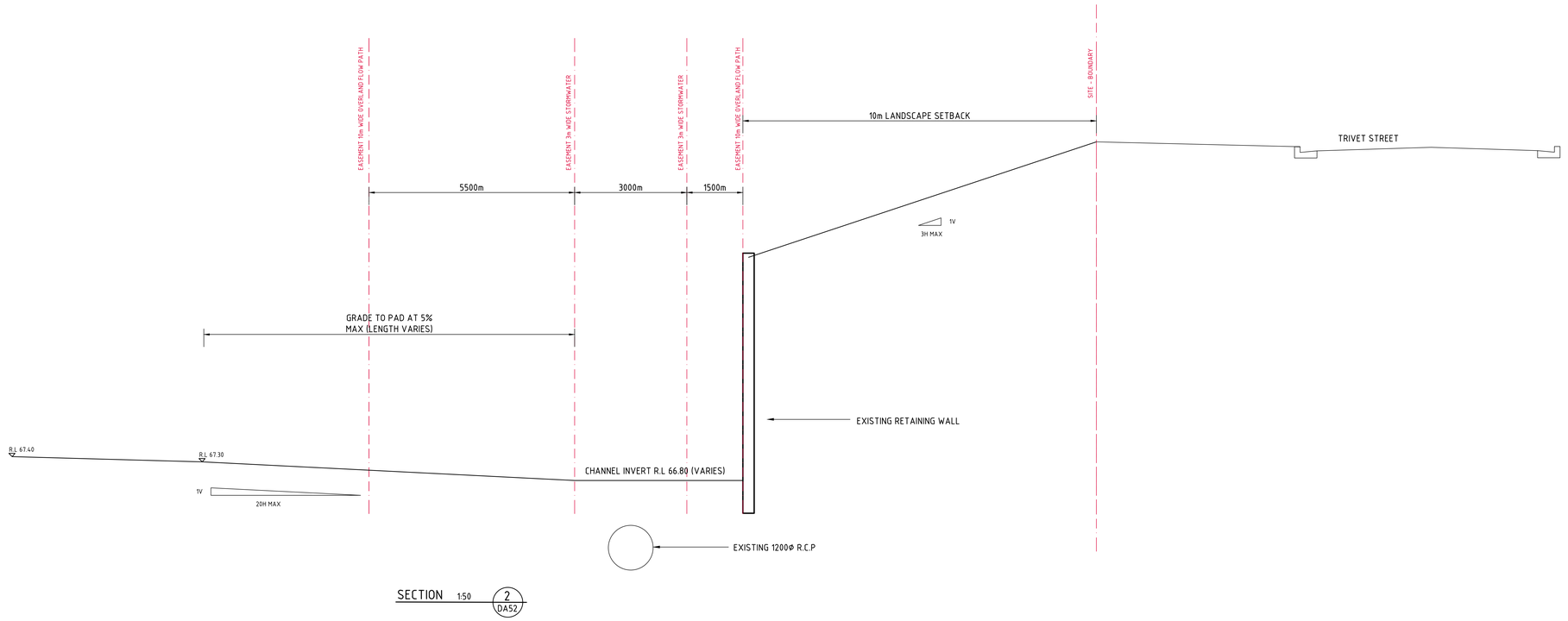
ISSUE: D



SECTION 1:50 — 1 / DA52



SECTION 1:50 — 3 / DA52



SECTION 1:50 — 2 / DA52

FOR DEVELOPMENT APPLICATION

500mm 0 1 2 3 4 5m
SCALE 1:50 AT A0 SIZE PLOT

AMENDMENTS	DATE	ISSUE
FOR DEVELOPMENT APPLICATION	16.03.22	C
FOR DEVELOPMENT APPLICATION	11.03.22	B
FOR DEVELOPMENT APPLICATION	09.08.21	A

ARCHITECT: [watch this SPACE design]

CLIENT: Charter Hall

PROJECT: HORSLEY DRIVE BUSINESS PARK
LOT 2&3 DEVELOPMENT
COWPASTURE ROAD, WETHERILL PARK, NSW

DESIGNED	DRAWN	DATE	CHECKED	SIZE	SCALE	CAD REF:
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DRAWING TITLE: TYPICAL SECTIONS

DRAWING No: Co11492.19-DA53 ISSUE: C