

CDM WARNING - S.82
 DEEP EXCAVATIONS NEAR TO EXISTING SERVICES.
 TEMPORARY WORKS MAY BE REQUIRED.

FOR WASTE COMPOUND & ACCESS
 ROAD DRAINAGE REFER TO
 WCHPH2-CUR-VV-XX-DR-C-92002

LOCATION AND NUMBER OF FOU POP
 UP AND RAIN WATER PIPES HAVE BEEN
 SHOWN INDICATIVELY AND ARE TO BE
 CONFIRMED AND REFINED BY OTHERS.
 ALL INTERNAL FOUL DRAINAGE TO BE
 1000 FALLING AT 1:100 MINIMUM.
 ALL INTERNAL SURFACE WATER
 DRAINAGE TO BE 1:100 AT 1:100
 MINIMUM.

NOTE LOCATION OF POP UPS TO BE SEEN ON
 ARCHITECT'S DSSR INFORMATION.

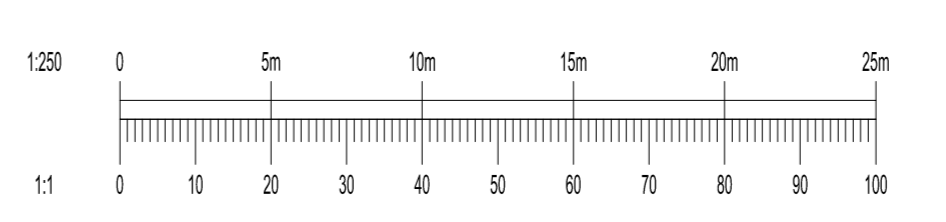
NOTE COVER LEVELS ON PEDESTRIAN AREAS TO BE
 CONFIRMED BY ITERAD.

THIRD PARTY INFO REQUIRED
 EXISTING DRAINAGE LEVELS &
 LOCATION TO BE CONFIRMED

CDM WARNING - S.82
 PROPOSED DRAINAGE CROSSING EXISTING
 SERVICES. EXACT LOCATION TO BE CONFIRMED

THIRD PARTY INFO REQUIRED
 1. CCTV SURVEY OF EXISTING DRAINAGE TO
 CONFIRM EXTENT OF ABANDONMENT AND
 CONDITION.
 2. CONFIRMATION OF DRAINAGE REQUIREMENTS
 WITHIN REFINISHMENT AREAS.

- LEGEND**
- PROPOSED SURFACE WATER DRAIN WITH MANHOLE
 - PROPOSED FOUL WATER DRAIN WITH MANHOLE
 - INSPECTION CHAMBER
 - PROPOSED ATTENUATION TANK
 - PROPOSED PERMEABLE PAVING WITH TYPE 3 SUB-BASE - IMPERMEABLE BASE
 - PROPOSED LINEAR DRAINAGE CHANNEL
 - PROPOSED PERFORATED PIPE
 - PROPOSED GULLY
 - PROPOSED RODDING EYE
 - EXISTING SURFACE WATER PRIVATE DRAINAGE APPROXIMATE ROUTE
 - EXISTING FOUL WATER PRIVATE DRAINAGE APPROXIMATE ROUTE
 - EXISTING DRAINAGE TO BE RETAINED
 - EXISTING DRAINAGE TO BE ABANDONED



PHASE 2 DRAINAGE LAYOUT
 (SCALE 1:250)

GENERAL NOTES:

- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS AND ENGINEERS DRAWINGS AND SPECIFICATIONS.
- DO NOT SCALE THIS DRAWING. ANY AMBIGUITIES, OMISSIONS AND ERRORS ON DRAWINGS SHALL BE BROUGHT TO THE ENGINEERS ATTENTION IMMEDIATELY. ALL DIMENSIONS MUST BE CHECKED / VERIFIED ON SITE.
- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.

PRIVATE DRAINAGE NOTES:

- ALL DRAINAGE WORK TO BE IN ACCORDANCE WITH THE BUILDING REGULATIONS, BS EN 752 AND TO THE SATISFACTION OF THE BUILDING INSPECTOR.
- ALL PROPRIETARY ITEMS ARE TO BE INSTALLED STRICTLY IN ACCORDANCE WITH MANUFACTURERS DETAILS, INSTRUCTIONS & SPECIFICATIONS.
- ALL EXISTING DRAINS AND SERVICES (LINE AND LEVELS) TO BE CHECKED BY THE CONTRACTOR ON SITE PRIOR TO FINISHING NEW DRAINAGE LINES AND LEVELS.
- ALL COVER LEVELS ARE APPROXIMATE. EXACT LEVELS TO BE DETERMINED FROM THE EXTERNAL WORKS LAYOUT.
- INVERT LEVELS QUOTED AT MANHOLES AND INSPECTION CHAMBERS ARE THOSE OF THE LARGEST CONNECTED PIPE DIAMETER. PIPES AT CHAMBERS TO BE LAD WITH SLOTTED LEVEL UNLESS NOTED OTHERWISE.
- PIPE GRADIENTS WHERE STATED ARE APPROXIMATE.
- REFER TO ARCHITECT'S DRAWINGS FOR PRECISE LOCATION OF ALL RAINWATER PIPES, INTERNAL CONNECTIONS ETC.
- ALL INTERNAL CONNECTIONS ARE TO HAVE AN ABOVE-FLOOR ACCESS POINT TO ENABLE FUTURE ACCESS FOR MAINTENANCE.
- PIPES AND FITTINGS TO BE:
 - CONCRETE PIPES AND ANCILLARY PRODUCTS TO BS 5911:2002-AR:2010 AND BS EN 1916:2002.
 - VITRIFIED CLAY PIPES AND FITTINGS TO BS EN 295:2013 (ALL PARTS).
 - DUCTILE IRON TO BS EN 598:2007 & BS ISO 4175:2005.
 - PLASTIC PIPES FOR LAND DRAINAGE TO BS 4962:1982.
 - PLASTIC PIPING SYSTEMS FOR NON-PRESSURE UNDERGROUND DRAINAGE AND SEWAGE TO BS EN 1401 & BS 4660 - SOLID WALL ONLY. STRUCTURED WALL PIPES ARE NOT ACCEPTABLE FOR USE IN DRAINAGE SYSTEMS UNLESS AGREED.
 - PRECAST CONCRETE MANHOLE UNITS TO BS EN 1917:2002.
 - PLASTIC INSPECTION CHAMBERS FOR DRAINS AND SEWERS TO BS EN 13598-1:2010.
 - GULLY AND MANHOLE TOPS FOR VEHICULAR AND PEDESTRIAN AREAS TO BS EN 124:1994.
 - DRAINAGE CHANNELS FOR VEHICULAR AND PEDESTRIAN AREAS TO BS EN 1433:2002.
- ALL MANHOLE COVERS, ROAD GULLY COVERS AND FRAMES TO COMPLY WITH BS EN 124 NON ROCKING TYPE UNLESS NOTED OTHERWISE. USE:
 - CLASS A15 AREAS INACCESSIBLE TO VEHICLES, ACCESSED ONLY BY PEDESTRIANS AND PEDAL CYCLISTS.
 - CLASS B125 FOOTPATHS, FOOTWAYS, PEDESTRIAN AREAS WITH ONLY OCCASIONAL LIGHT VEHICULAR ACCESS INCLUDING DOMESTIC DRIVEWAYS & SMALL CAR PARKS.
 - CLASS C250 GULLY TOPS IN CARRIAGEWAY WITHIN 500mm OF KERB AND UP TO 200mm INTO THE FOOTWAY.
 - CLASS D400 CARRIAGEWAYS, HARD SHOULDERS, PARKING AREAS AND PEDESTRIAN AREAS ACCESSED BY ALL TYPES OF VEHICLES.
 - CLASS E600 AREAS IMPOSING HIGH WHEEL LOADS SUCH AS INDUSTRIAL ESTATES AND SERVICE YARDS.
- MANHOLES IN INTERNAL AREAS REQUIRE DOUBLE SEALED COVERS WITH LOCKING SCREWS, RECESSED WHERE REQUIRED TO ACCOMMODATE FLOOR FINISHES TO ARCHITECT'S SPECIFICATION.
- PIPE BEDDING:
 - USE CLASS 5 BEDDING UNLESS NOTED OTHERWISE. NB PROTECT AGAINST CONSTRUCTION TRAFFIC AS NECESSARY.
 - USE CLASS 2 CONCRETE BED & SURROUND OR CONCRETE SLAB PROTECTION AS FOLLOWS:
 - 100 - 600mm PIPES (CLASS 120 CLAYWARE OR CLASS M CONCRETE) FIELDS AND GARDENS - LESS THAN 600mm COVER TO CROWN. ROADS - LESS THAN 1200mm COVER TO CROWN.
 - 100 - 300mm PIPES (PLASTIC) FIELDS AND GARDENS - LESS THAN 600mm COVER TO CROWN. ROADS - LESS THAN 900mm COVER TO CROWN.
- PIPES BELOW CONCRETE GROUND FLOOR SLABS WHERE THE CROWN OF THE PIPE IS WITHIN 300mm OF THE UNDERSIDE OF SLAB. SPECIAL PROTECTION TO BE PROVIDED IN ACCORDANCE WITH BUILDING REGULATIONS H1 2.44 OR 150mm GEN3 CONCRETE BED AND SURROUND CAST INTEGRALLY WITH SLAB. OTHERWISE USE CLASS 5 BEDDING.
- MAIN BACKFILL TO BE WELL COMPACTED IN 150mm LAYERS OF SELECTED BACKFILL MATERIAL IN ALL SOFT LANDSCAPED AREAS TYPE 1 GRANULAR MATERIAL IN ALL HARDSTANDING AREAS & PUBLIC HIGHWAYS.
- BACKFILL TO DRAINS NEAR FOUNDATIONS IS TO BE IN ACCORDANCE WITH BUILDING REGULATIONS H1 DIAGRAMS 8 & 12.
- SURFACE WATER MANHOLE SIZE TO BE MAXIMUM PIPE SIZE +900mm (ASSUME 15000).
- ALL CHAMBERS DOWNSTREAM OF PERFORATED PIPES TO BE A SILT TRAP

Rev	Description	Date	By	Chk'd
04	REVISION CLOUDS ADDED	21/07/22	DM	
C03	S4 AND HYDROBRAKE REFERENCES UPDATED	15/07/22	DM	PT
C02	UPDATED TO REFLECT DSSR POP UP LOCATIONS AND LANDSCAPE ARCHITECT COMMENTS	28/06/22	DM	PT
C01	CONSTRUCTION ISSUE	19/06/22	DM	PT

Curtins
 Units 24 & 25 Riverside Place, K Village, Loud Road, Kewdale, WA 6101
 08158 724823
 www.curtins.com

CONSTRUCTION ISSUE **A1**

GRAHAM
 Project: WEST CUMBERLAND HOSPITAL
 PHASE 2 DEVELOPMENT

DRAINAGE LAYOUT

Project No:	Size:	Date:	Drawn By:	Designed By:	Checked By:
072419	A0	MAY 21	DM	DM	PT

Project Code: Originator: Zone: Level: Type: Discipline: Category/Number: Rev

WCHPH2 CUR - VV - XX - DR - C - 92001 - C04