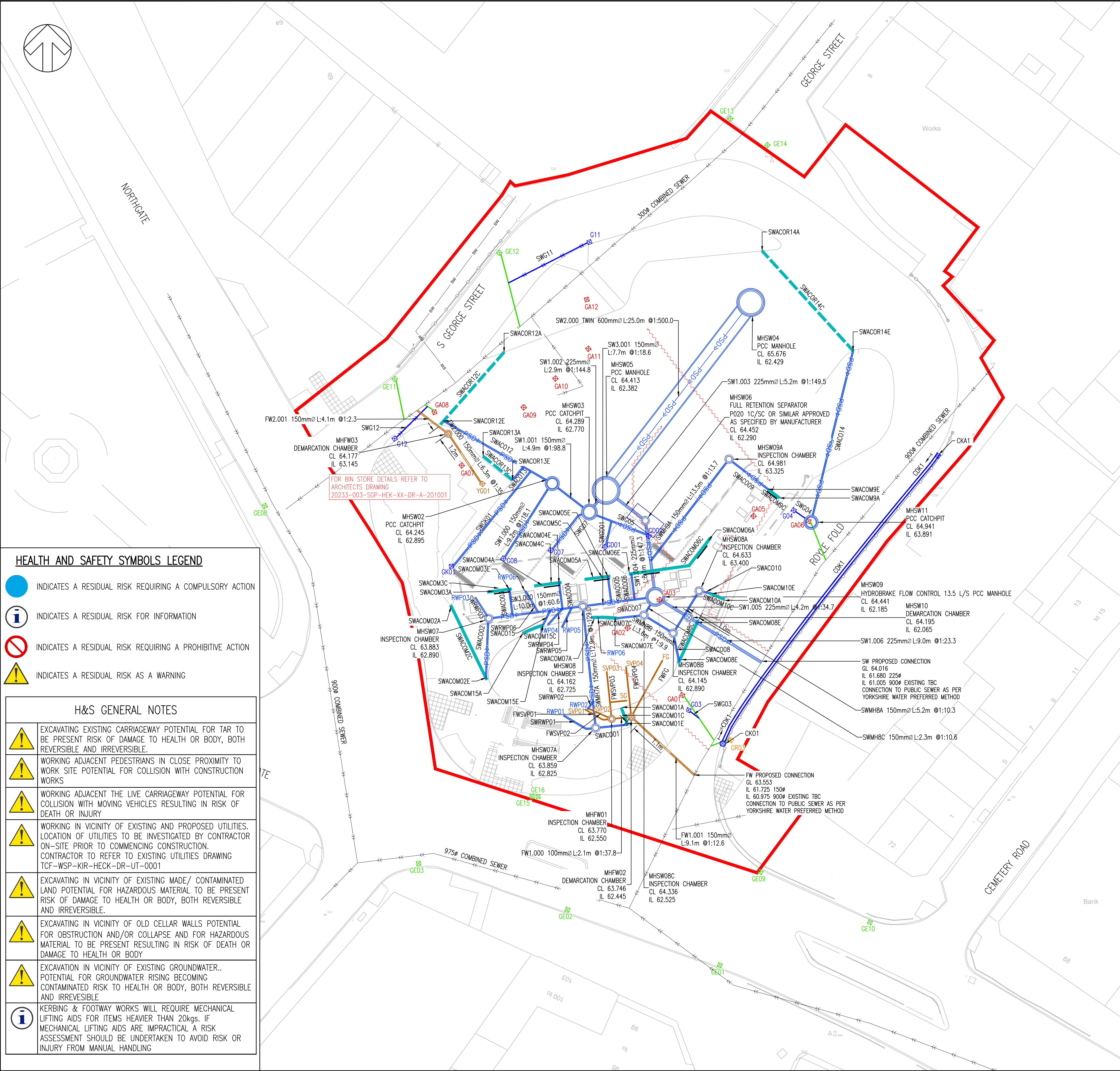


File name: \\UK.WSPGROUP.COM\CENTRAL DATA\PROJECTS\0007000\000702-HECKMONDWIKE BS-REBA403\WPCV CIVIL ENGINEERING\03 DRAWINGS\TCF-WSP-KIR-HECK-DR-CH-0500.DWG, printed on 17 June 2026 12:23:13, by Cooper, Chris



HEALTH AND SAFETY SYMBOLS LEGEND

- INDICATES A RESIDUAL RISK REQUIRING A COMPULSORY ACTION
- INDICATES A RESIDUAL RISK FOR INFORMATION
- INDICATES A RESIDUAL RISK REQUIRING A PROHIBITIVE ACTION
- INDICATES A RESIDUAL RISK AS A WARNING

H&S GENERAL NOTES

- EXCAVATING EXISTING CARRIAGEWAY POTENTIAL FOR TAR TO BE PRESENT RISK OF DAMAGE TO HEALTH OR BODY, BOTH REVERSIBLE AND IRREVERSIBLE.
- WORKING ADJACENT PEDESTRIANS IN CLOSE PROXIMITY TO WORK SITE POTENTIAL FOR COLLISION WITH CONSTRUCTION WORKS
- WORKING ADJACENT THE LIVE CARRIAGEWAY POTENTIAL FOR COLLISION WITH MOVING VEHICLES RESULTING IN RISK OF DEATH OR INJURY
- WORKING IN VICINITY OF EXISTING AND PROPOSED UTILITIES. LOCATION OF UTILITIES TO BE INVESTIGATED BY CONTRACTOR ON-SITE PRIOR TO COMMENCING CONSTRUCTION. CONTRACTOR TO REFER TO EXISTING UTILITIES DRAWING TCF-WSP-KIR-HECK-DR-UT-0001
- EXCAVATING IN VICINITY OF EXISTING MADE/ CONTAMINATED LAND POTENTIAL FOR HAZARDOUS MATERIAL TO BE PRESENT RISK OF DAMAGE TO HEALTH OR BODY, BOTH REVERSIBLE AND IRREVERSIBLE.
- EXCAVATING IN VICINITY OF OLD CELLAR WALLS POTENTIAL FOR OBSTRUCTION AND/OR COLLAPSE AND FOR HAZARDOUS MATERIAL TO BE PRESENT RESULTING IN RISK OF DEATH OR DAMAGE TO HEALTH OR BODY
- EXCAVATION IN VICINITY OF EXISTING GROUNDWATER.. POTENTIAL FOR GROUNDWATER RISING BECOMING CONTAMINATED RISK TO HEALTH OR BODY, BOTH REVERSIBLE AND IRREVERSIBLE
- KERBING & FOOTWAY WORKS WILL REQUIRE MECHANICAL LIFTING AIDS FOR ITEMS HEAVIER THAN 20kgs. IF MECHANICAL LIFTING AIDS ARE IMPRACTICAL A RISK ASSESSMENT SHOULD BE UNDERTAKEN TO AVOID RISK OR INJURY FROM MANUAL HANDLING

KEY:

- SITE BOUNDARY
- PROPOSED D400 GULLY, SURROUND AND FRAME TO KC STANDARD DETAIL REFER TO HD/SD/05/20B
- EXISTING GULLY TO BE RETAINED
- EXISTING GULLY TO BE BROKEN OUT AND RELOCATED TO FRONT OF KERB. EXISTING CONNECTION TO BE CONFIRMED AND REUSED
- EXISTING GULLY TO BE BROKEN OUT AND BACK FILLED
- PROPOSED YARD/FLOOR GULLY, SURROUND AND FRAME TO STANDARD DETAILS REFER TO 1100 SERIES
- PROPOSED COMBINED KERB AND DRAINAGE SYSTEMS (CKD) MINI BEANY WITH 210 BASE - HALF BATTERED REFER TO MINI BEANY STANDARD DETAILS
- ACCESS COVER AND FRAME OUTLET OUTFALL
- PROPOSED 150mm GULLY CONNECTION TO BE LAID TO A MINIMUM GRADIENT 1:150
- ASSUMED EXISTING GULLY LEAD AND CONNECTION TO BE CONFIRMED & REUSED
- INDICATIVE LOCATION OF EXISTING COMBINED SEWER (REFER TO NOTE 9)
- EXISTING SURFACE WATER SYSTEM CONNECTION
- EXISTING COMBINED WATER/SURFACE WATER SYSTEM TO BE GRUBBED OUT AND ABANDONED
- PROPOSED 2400mm PRECAST CONCRETE MANHOLE LOAD CLASS D400 REFER TO 500 SERIES
- PROPOSED 1200mm PRECAST CONCRETE CATCHPIT TO KC STANDARD DETAIL HD/SD/05/16B CONNECTION IN MANHOLE TO KC STANDARD DETAIL HD/SD/19B COVER LOAD D400
- PROPOSED 1050mm PRECAST CONCRETE CATCHPIT TO KC STANDARD DETAIL HD/SD/05/16B CONNECTION IN MANHOLE TO KC STANDARD DETAIL HD/SD/19B COVER LOAD D400
- PROPOSED 1050mm PRECAST CONCRETE CATCHPIT TO KC STANDARD DETAIL HD/SD/05/16B CONNECTION IN MANHOLE TO KC STANDARD DETAIL HD/SD/19B COVER LOAD D400
- PROPOSED ACO MONODRAIN PD1000 0.0 INTEGRAL HEEGUARD SLOTTED GRATE LOAD CLASS D400 CONCRETE BED & HAUNCH TO SUPPLIERS INSTALLATION DETAILS
- PROPOSED ACO ROADRAIN PD100F 10.1 SLOTTED GRATE LOAD CLASS F900 ASPHALT & CONCRETE PAVEMENT CONCRETE BED & HAUNCH TO SUPPLIERS INSTALLATION DETAILS
- SURFACE WATER ACO DRAIN ACCESS COVER & FRAME SURFACE WATER ACO DRAIN OUTLET COVER & FRAME SURFACE WATER ACO DRAIN CHANNEL M - ACO MONODRAIN R - ACO ROADRAIN
- PROPOSED SURFACE WATER INSPECTION CHAMBER TO STANDARD DETAILS REFER TO 1100 SERIES
- PROPOSED FOUL WATER INSPECTION CHAMBER TO STANDARD DETAILS REFER TO 1100 SERIES
- PROPOSED SURFACE WATER DEMARCATION CHAMBER TO YORKSHIRE WATER STANDARD DETAILS
- PROPOSED FOUL WATER DEMARCATION CHAMBER TO YORKSHIRE WATER STANDARD DETAILS
- PROPOSED 100mm FOUL WATER DRAIN CONNECTION TO BE LAID TO A MINIMUM GRADIENT 1:40 UNLESS OTHERWISE STATED
- PROPOSED 150mm SURFACE WATER CONNECTION TO BE LAID TO A MINIMUM GRADIENT 1:150 UNLESS OTHERWISE STATED
- RWP RAINWATER PIPE
- SVP/Sg/FG SOIL VENT PIPE/SOWER GULLY/FLOOR GULLY
- PROPOSED GULLY, SURROUND AND FRAME TO KC STANDARD DETAIL REFER TO HD/SD/05/22B
- PROPOSED DIRO BARRIER GULLY, SURROUND AND FRAME TO KC STANDARD DETAIL REFER TO HD/SD/05/21B

PLEASE NOTE: THIS DRAWING HAS BEEN ISSUED AS A RECORD OF DESIGN INFORMATION PROVIDED FOR CONSTRUCTION. IT SHOULD NOT BE RELIED UPON AS AN ACCURATE AS-BUILT RECORD OF THE COMPLETED WORKS.

- NOTES
- ALL DIMENSIONS IN METRES UNLESS OTHERWISE STATED.
 - ANY DESIGN DISCREPANCIES TO BE BROUGHT TO THE ATTENTION OF WSP.
 - ALL STATUTORY UNDERTAKERS EQUIPMENT IN FOOTWAY AND CARRIAGEWAY TO BE LOCATED AND DIVERTED BEFORE WORK COMMENCES.
 - A PEDESTRIAN ROUTE THROUGH THE WORKS SHALL BE MAINTAINED AT ALL TIMES AND CLEARLY DEFINED BY SUITABLE BARRIERS AND LIGHTS WHERE NECESSARY.
 - THE CONTRACTOR IS OBLIGED TO OBTAIN NECESSARY ROAD OPENING AND/OR SEWER CONNECTION LICENSES PRIOR TO COMMENCEMENT OF THE WORKS.
 - ONE VERTICAL JOINT PER COURSE OF BRICK WORK SHALL BE LEFT OPEN TO ALLOW DRAINAGE DURING CONSTRUCTION.
 - ALL STATUTORY UNDERTAKERS COVERS AND FRAMES TO BE ADJUSTED TO SUIT NEW CARRIAGEWAY LEVELS PRIOR TO SURFACING.
 - ALL EXISTING GULLIES AND DRAIN RUNS TO BE CLEANED OF DEBRIS AND HIGH PRESSURE WATER JETTED PRIOR TO COMMENCEMENT OF WORKS.
 - IN THIS DRAWING THE EXISTING SEWER HAS BEEN DRAWN USING UTILITY RECORDS RECEIVED FROM YORKSHIRE WATER. THE LOCATION, DEPTH AND CONNECTIVITY SHOULD BE VERIFIED ON-SITE PRIOR TO FINALISING THE DRAINAGE DESIGN AND COMMENCING CONSTRUCTION.
 - ALL HARD STANDING AND IMPERMEABLE AREAS OUTSIDE THE ADOPTED HIGHWAY BOUNDARY TO BE DRAINED AND COLLECTED IN PRIVATE DRAINAGE SYSTEMS BEFORE WATER ENCROACHES ONTO THE PUBLIC HIGHWAY.
 - GULLIES SHOULD NOT BE LOCATED IN THE AREA OF DROPPED CROSSINGS.
 - ALL PAVEMENT GULLY GRATES AND FRAMES SHALL BE CLASS D400 TO BS EN 124-1: 2015.
 - THE CHAMBER SIZE OF MANHOLES WITH MORE THAN ONE CONNECTION MAY NEED TO BE INCREASED BY INCREMENT TO ACCOMMODATE THE CONNECTIONS AND BENDS.
 - MANHOLE COVERS SHALL/MUST HAVE A CLEAR OPENING OF 600mm AND SHALL BE CLASS D400 TO BS EN 124 WITH 150mm DEEP FRAMES IN HIGHWAYS.
 - SULPHATE RESISTANT CEMENT (C20-DC2) AND PRECAST CONCRETE PRODUCTS MUST BE USED OR A LABORATORY REPORT PROVIDED PROVING THAT SUCH PRECAUTIONS ARE NOT NECESSARY.
 - BEDDING AND BACKFILL MATERIAL TO CONFORM TO THE REQUIREMENT OF KIRKLEES COUNCIL SPECIFICATION. WHERE DEPTH OF COVER TO TOP OF THE SEWER IS LESS THAN 1.2m IN HIGHWAYS (OR LESS THAN 600mm IN NONE VEHICULAR ACCESS AREAS) THEN A CONCRETE SLAB SHOULD BE PROVIDE ABOVE GRANULAR BED AND SURROUND.
 - EXACT LOCATIONS OF GULLY TIE INS TO BE AGREED ON SITE WITH KIRKLEES COUNCIL ENGINEER.
 - ALL REUSED EXISTING GULLY CONNECTIONS TO BE CONFIRMED TO LINE AND LEVEL PRIOR TO COMMENCEMENT OF CONSTRUCTION WORK.

C08	17/06/2026	CKC	AS DESIGNED	CS	CC
C07	09/02/2026	CC	REVISED POSITION YD01, RWP04, REVISED SWACOM07 TO ACCOMMODATE RWP06 (TQ-245)	JAS	CxC
C06	19/01/2026	CC	REVISED BUS APRON DRAINAGE SYSTEM (STANDS 1 TO 5) DUE TO DIRO BARRIER DESIGN. REALIGNMENT OF ROYLE FOLD COMBINED KERB AND DRAINAGE SYSTEM TQ72 REVISED KEY	JAS	CxC
C05	05/11/2025	CC	ACO CHANNEL DRAINAGE SYSTEM SWACOM11 MERGED WITH SWACOM06	JUS	CC
C04	30/10/2025	CC	REVISED ACO ROADRAIN BED & HAUNCH DETAILS ROYLE FOLD COMBINED KERB & DRAINAGE SYSTEM IN ABEYANCE SUBJECT TO DIRO BARRIER DESIGN. TQ-128 CANOPY RAINWATER DOWNPIPE CO-ORDINATION	CDS	CC
C03	05/02/2025	CC	AMENDED TO REFLECT YORKSHIRE WATER RECOMMENDATIONS. PIPE REFERENCE UPDATED S GEORGE STREET	DP	CC
C02	21/10/2024	CC	ROADRAIN CONCRETE STRENGTH INCREASED IN ACCORDANCE WITH KCC INSTRUCTION	SG	SG
C01	06/09/2024	DP	FIRST ISSUE	SG	SG
REV	DATE	BY	DESCRIPTION	CHK	APP

DRAWING STATUS: CR - CONSTRUCTION RECORD

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CLIENT: KIRKLEES COUNCIL

ARCHITECT: SGP

SITE/PROJECT: HECKMONDWIKE BUS STATION RIBA 4

TITLE: DRAINAGE

SCALE @ A1: 1:200	CHECKED: SG	APPROVED: DB
PROJECT NO: 70097732	DESIGNED: DP	DRAWN: DP
DATE: June 26		REV: C08

DRAWING NO: TCF-WSP-KIR-HECK-DR-CH-0500

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