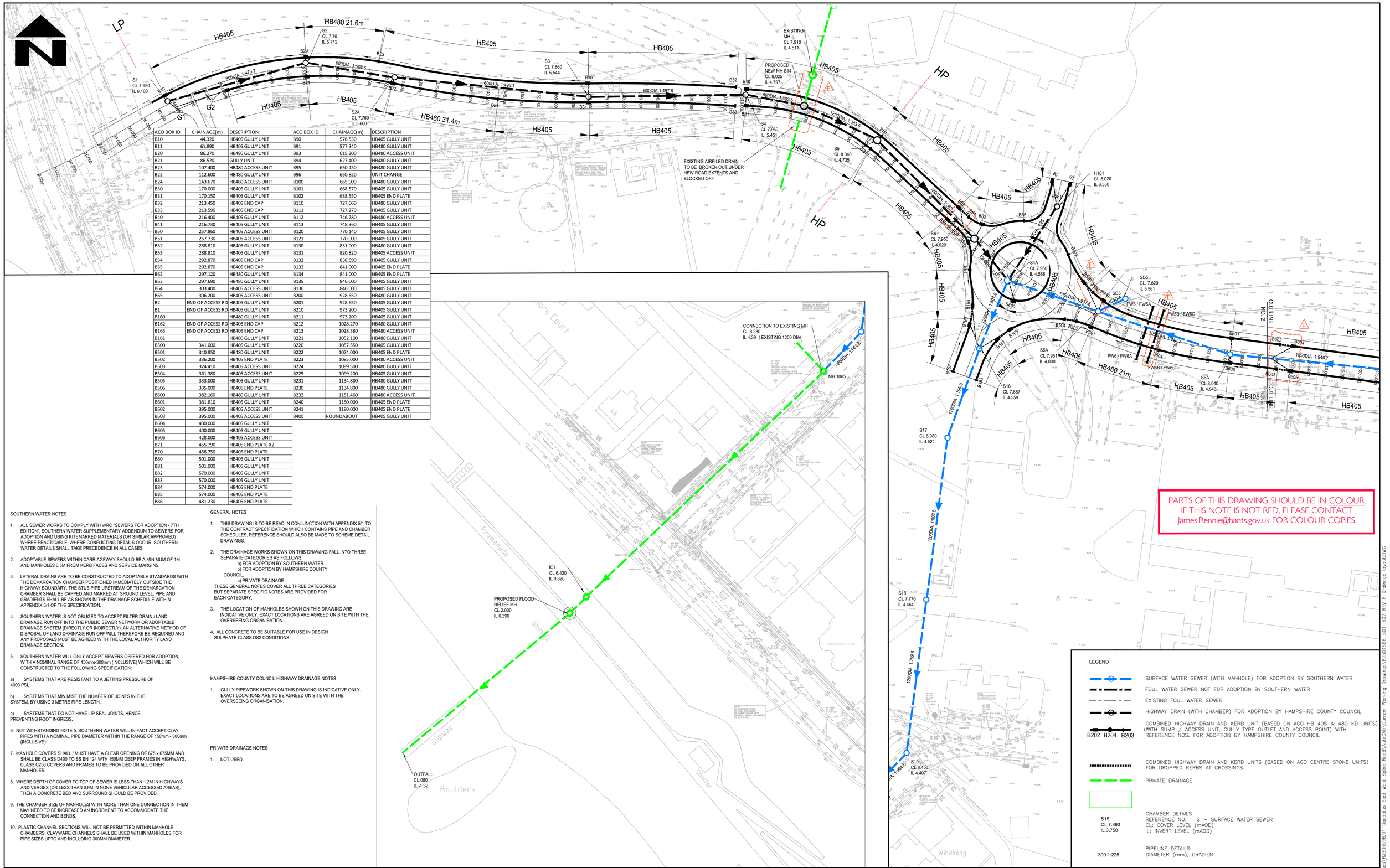

ACO BOX ID	CHAINAGE(m)	DESCRIPTION
B10	44.320	HB405 GULLY UNIT
B11	61.890	HB405 GULLY UNIT
B20	86.270	HB480 GULLY UNIT
B21	86.520	GULLY UNIT
B23	107.400	HB480 ACCESS UNIT
B22	112.600	HB480 GULLY UNIT
B24	143.670	HB480 ACCESS UNIT
B30	170.000	HB405 GULLY UNIT
B31	170.150	HB405 GULLY UNIT
B32	213.450	HB405 END CAP
B33	213.590	HB405 END CAP
B40	216.400	HB405 GULLY UNIT
B41	216.730	HB405 GULLY UNIT
B50	257.860	HB405 ACCESS UNIT
B51	257.730	HB405 ACCESS UNIT
B52	288.810	HB405 GULLY UNIT
B53	288.810	HB405 GULLY UNIT
B54	292.870	HB405 END CAP
B55	292.870	HB405 END CAP
B62	297.120	HB480 GULLY UNIT
B63	297.690	HB480 GULLY UNIT
B64	303.400	HB405 ACCESS UNIT
B65	306.200	HB405 ACCESS UNIT
B2	END OF ACCESS RD	HB405 GULLY UNIT
B1	END OF ACCESS RD	HB405 GULLY UNIT
B160		HB480 GULLY UNIT
B162	END OF ACCESS RD	HB405 END CAP
B163	END OF ACCESS RD	HB405 END CAP
B161		HB480 GULLY UNIT
B500	341.000	HB405 GULLY UNIT
B501	340.850	HB480 GULLY UNIT
B502	336.200	HB405 END PLATE
B503	324.410	HB405 ACCESS UNIT
B504	361.380	HB405 GULLY UNIT
B505	333.000	HB405 GULLY UNIT
B506	335.000	HB405 END PLATE
B600	382.160	HB480 GULLY UNIT
B601	381.810	HB405 GULLY UNIT
B602	395.000	HB405 ACCESS UNIT
B603	395.000	HB405 ACCESS UNIT
B604	400.000	HB405 GULLY UNIT
B605	400.000	HB405 GULLY UNIT
B606	428.000	HB405 ACCESS UNIT
B71	455.790	HB405 END PLATE X2
B70	458.750	HB405 END PLATE
B80	501.000	HB405 GULLY UNIT
B81	501.000	HB405 GULLY UNIT
B82	570.000	HB405 GULLY UNIT
B83	570.000	HB405 GULLY UNIT
B84	574.000	HB405 END PLATE
B85	574.000	HB405 END PLATE
B86	481.230	HB405 END PLATE
B90	576.530	HB405 GULLY UNIT
B91	577.340	HB480 GULLY UNIT
B93	615.200	HB480 ACCESS UNIT
B94	627.400	HB480 GULLY UNIT
B95	650.450	HB480 GULLY UNIT
B96	650.820	UNIT CHANGE
B100	665.000	HB480 GULLY UNIT
B101	668.570	HB405 GULLY UNIT
B102	688.550	HB405 END PLATE
B110	727.060	HB480 GULLY UNIT
B111	727.270	HB405 GULLY UNIT
B112	746.780	HB480 ACCESS UNIT
B113	748.360	HB405 GULLY UNIT
B120	770.140	HB405 GULLY UNIT
B121	770.000	HB405 GULLY UNIT
B130	831.000	HB480 GULLY UNIT
B131	820.820	HB405 ACCESS UNIT
B132	838.590	HB405 GULLY UNIT
B133	841.000	HB405 END PLATE
B134	841.000	HB405 END PLATE
B135	846.000	HB405 GULLY UNIT
B136	846.000	HB405 GULLY UNIT
B200	928.650	HB480 GULLY UNIT
B201	928.650	HB405 GULLY UNIT
B210	973.200	HB405 GULLY UNIT
B211	973.200	HB405 GULLY UNIT
B212	1028.270	HB480 GULLY UNIT
B213	1028.380	HB480 ACCESS UNIT
B221	1052.100	HB480 GULLY UNIT
B220	1057.550	HB405 GULLY UNIT
B222	1074.000	HB405 END PLATE
B223	1085.000	HB480 ACCESS UNIT
B224	1099.500	HB480 GULLY UNIT
B225	1099.200	HB405 GULLY UNIT
B231	1134.800	HB480 GULLY UNIT
B230	1134.800	HB480 GULLY UNIT
B232	1151.460	HB480 ACCESS UNIT
B240	1180.000	HB405 END PLATE
B241	1180.000	HB405 END PLATE
B400	ROUNDABOUT	HB405 GULLY UNIT

SOUTHERN WATER NOTES

1. ALL SEWER WORKS TO COMPLY WITH WRC "SEWERS FOR ADOPTION - 7TH EDITION", SOUTHERN WATER SUPPLEMENTARY ADDENDUM TO SEWERS FOR ADOPTION AND USING KITEMARKED MATERIALS (OR SIMILAR APPROVED) WHERE PRACTICABLE. WHERE CONFLICTING DETAILS OCCUR, SOUTHERN WATER DETAILS SHALL TAKE PRECEDENCE IN ALL CASES.
2. ADOPTABLE SEWERS WITHIN CARRIAGEWAY SHOULD BE A MINIMUM OF 1M AND MANHOLES 0.5M FROM KERB FACES AND SERVICE MARGINS.
3. LATERAL DRAINS ARE TO BE CONSTRUCTED TO ADOPTABLE STANDARDS WITH THE DEMARCATION CHAMBER POSITIONED IMMEDIATELY OUTSIDE THE HIGHWAY BOUNDARY. THE STUB PIPE UPSTREAM OF THE DEMARCATION CHAMBER SHALL BE CAPPED AND MARKED AT GROUND LEVEL. PIPE AND GRADIENTS SHALL BE AS SHOWN IN THE DRAINAGE SCHEDULE WITHIN APPENDIX 5/1 OF THE SPECIFICATION.
4. SOUTHERN WATER IS NOT OBLIGED TO ACCEPT FILTER DRAIN / LAND DRAINAGE RUN OFF INTO THE PUBLIC SEWER NETWORK OR ADOPTABLE DRAINAGE SYSTEM (DIRECTLY OR INDIRECTLY). AN ALTERNATIVE METHOD OF DISPOSAL OF LAND DRAINAGE RUN OFF WILL THEREFORE BE REQUIRED AND ANY PROPOSALS MUST BE AGREED WITH THE LOCAL AUTHORITY LAND DRAINAGE SECTION.
5. SOUTHERN WATER WILL ONLY ACCEPT SEWERS OFFERED FOR ADOPTION, WITH A NOMINAL RANGE OF 150mm-300mm (INCLUSIVE) WHICH WILL BE CONSTRUCTED TO THE FOLLOWING SPECIFICATION:

a) SYSTEMS THAT ARE RESISTANT TO A JETTING PRESSURE OF 4000 PSI.

b) SYSTEMS THAT MINIMISE THE NUMBER OF JOINTS IN THE SYSTEM, BY USING 3 METRE PIPE LENGTH,

c) SYSTEMS THAT DO NOT HAVE LIP SEAL JOINTS, HENCE PREVENTING ROOT INGRESS.

6. NOT WITHSTANDING NOTE 5, SOUTHERN WATER WILL IN FACT ACCEPT CLAY PIPES WITH A NOMINAL PIPE DIAMETER WITHIN THE RANGE OF 150mm - 300mm (INCLUSIVE).
7. MANHOLE COVERS SHALL / MUST HAVE A CLEAR OPENING OF 675 x 675MM AND SHALL BE CLASS D400 TO BS EN 124 WTH 150MM DEEP FRAMES IN HIGHWAYS, CLASS C250 COVERS AND FRAMES TO BE PROVIDED ON ALL OTHER MANHOLES.
8. WHERE DEPTH OF COVER TO TOP OF SEWER IS LESS THAN 1.2M IN HIGHWAYS AND VERGES (OR LESS THAN 0.9M IN NONE VEHICULAR ACCESSED AREAS), THEN A CONCRETE BED AND SURROUND SHOULD BE PROVIDED.
9. THE CHAMBER SIZE OF MANHOLES WITH MORE THAN ONE CONNECTION IN THEM MAY NEED TO BE INCREASED AN INCREMENT TO ACCOMMODATE THE CONNECTION AND BENDS.
10. PLASTIC CHANNEL SECTIONS WILL NOT BE PERMITTED WITHIN MANHOLE CHAMBERS. CLAYWARE CHANNELS SHALL BE USED WITHIN MANHOLES FOR PIPE SIZES UPTO AND INCLUDING 300MM DIAMETER.

GENERAL NOTES

1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH APPENDIX 5/1 TO THE CONTRACT SPECIFICATION WHICH CONTAINS PIPE AND CHAMBER SCHEDULES. REFERENCE SHOULD ALSO BE MADE TO SCHEME DETAIL DRAWINGS.
2. THE DRAINAGE WORKS SHOWN ON THIS DRAWING FALL INTO THREE SEPARATE CATEGORIES AS FOLLOWS:
   a) FOR ADOPTION BY SOUTHERN WATER
   b) FOR ADOPTION BY HAMPSHIRE COUNTY COUNCIL,
   c) PRIVATE DRAINAGE

   THESE GENERAL NOTES COVER ALL THREE CATEGORIES BUT SEPARATE SPECIFIC NOTES ARE PROVIDED FOR EACH CATEGORY.
3. THE LOCATION OF MANHOLES SHOWN ON THIS DRAWING ARE INDICATIVE ONLY. EXACT LOCATIONS ARE AGREED ON SITE WITH THE OVERSEEING ORGANISATION.
4. ALL CONCRETE TO BE SUITABLE FOR USE IN DESIGN SULPHATE CLASS DS2 CONDITIONS.

HAMPSHIRE COUNTY COUNCIL HIGHWAY DRAINAGE NOTES

1. GULLY PIPEWORK SHOWN ON THIS DRAWING IS INDICATIVE ONLY. EXACT LOCATIONS ARE TO BE AGREED ON SITE WITH THE OVERSEEING ORGANISATION.

PRIVATE DRAINAGE NOTES

1. NOT USED.

PARTS OF THIS DRAWING SHOULD BE IN COLOUR. IF THIS NOTE IS NOT RED, PLEASE CONTACT James.Rennie@hants.gov.uk FOR COLOUR COPIES.

LEGEND

- SURFACE WATER SEWER (WITH MANHOLE) FOR ADOPTION BY SOUTHERN WATER
- FOUL WATER SEWER NOT FOR ADOPTION BY SOUTHERN WATER
- EXISTING FOUL WATER SEWER
- HIGHWAY DRAIN (WITH CHAMBER) FOR ADOPTION BY HAMPSHIRE COUNTY COUNCIL
- B202 B204 B203 — COMBINED HIGHWAY DRAIN AND KERB UNIT (BASED ON ACO HB 405 & 480 KD UNITS) (WITH SUMP / ACCESS UNIT, GULLY TYPE OUTLET AND ACCESS POINT) WITH REFERENCE NOS. FOR ADOPTION BY HAMPSHIRE COUNTY COUNCIL
- COMBINED HIGHWAY DRAIN AND KERB UNITS (BASED ON ACO CENTRE STONE UNITS) FOR DROPPED KERBS AT CROSSINGS.
- PRIVATE DRAINAGE
- CHAMBER DETAILS
  REFERENCE NO: S – SURFACE WATER SEWER
  CL: COVER LEVEL (mAOD)
  IL: INVERT LEVEL (mAOD)
  S15 / CL 7.890 / IL 3.758
- PIPELINE DETAILS:
  DIAMETER (mm), GRADIENT
  300 1:225

REV.	AMENDMENT	DATE	DRAWN	CHKD	APPD
F	MH S15 DELETED, KERB DRAINAGE AT CROSSING POINTS REVISED	13/04/16	RD	RD	MC
E	CL'S AMENDED S5A, S16	25/02/16	RD	RD	MC
D	EXISTING 1200DIA PIPE DIVERTED VIA SPINE ROAD, PIPE DIAMETERS/INVERT LEVELS CHANGED S1 - S4A. PIPE FALLS AMENDED,IL's CHANGED, PIPE DIAMETERS CHANGED S8 - S4A.	29/01/2016	JM	RD	MC
C	MANHOLE RUNS REDESIGNED & RELABELED. 1200DIA AIRFIELD DRAINAGE REROUTED. KERB DRAINAGE AMENDED TO SUIT ACO KERB DRAINAGE SYSTEM. KERB DRAINAGE SCHEDULE ADDED. LEGEND AMENDED.	20/01/2016	JM	RD	MC
B	COMBINED KERB/DRAINAGE SYSTEM OUTLETS RATIONALISED & SOME MOVED. DROPPED KERBS ADDED.	16,06,15	JB	RD	MC
A	INITIAL CONTRACT AUDIT COMMENTS INCORPORATED	29.01,15	JEMR		

CLIENT: SOLENT LOCAL ENTERPRISE PARTNERSHIP

CONSULTANT: Hampshire County Council Engineering Consultancy

STUART JARVIS BSc DipTP FCIHT MRTPI: DIRECTOR OF ECONOMY, TRANSPORT & ENVIRONMENT

DRAWN	JB
CAD	JB
CHECKED	RD RD
APPROVED	MC MC

SCHEME: SOLENT ENTERPRISE ZONE DAEDALUS DRIVE

JOB No. RJ504596.01

DRAWING TITLE: DRAINAGE LAYOUT

HCC CADplot: 14.Apr.2016 at 11:01am

SCALE @ A1	DATE	SHEET No.	DRG No.	REV
1:500	JAN 2015	2 of 2	EC/RJ504596/502	F

HCC CADfile: K:\Eng\Roads\Schemes\RJ504596.01 Daedalus East West Spine Road\AutoCAD\Current Working Drawings\RJ504596_501-502 REV F Drainage layout.DWG