

NOTES
 CONTRACTORS MUST VERIFY ALL DIMENSIONS ON SITE BEFORE COMMENCING ANY WORK ON SHOP DRAWINGS
 DO NOT SCALE FROM THIS DRAWING
 RCD CONSULTANTS LTD COPYRIGHT

NOTES
 1. ALL DIMENSIONS IN MILLIMETERS UNLESS NOTED OTHERWISE.
 2. SEE DRAWING NUMBER 1115-1048-ENG-20 FOR LONGITUDINAL SECTIONS.
 3. SEE DRAWING NUMBER 1115-1048-ENG-30 FOR ADOPTABLE HIGHWAY CONSTRUCTION DETAILS.
 4. SEE DRAWING NUMBER 1115-1048-ENG-40 FOR ADOPTABLE DRAINAGE CONSTRUCTION DETAILS.

5. THE SPECIFICATION IN ALL RESPECTS SHALL BE IN ACCORDANCE WITH THE CURRENT NORTH LINCOLNSHIRE DESIGN GUIDE FOR RESIDENTIAL AREAS AND "DEVELOPMENT ROAD SPECIFICATION AND CONSTRUCTION" PUBLICATIONS IN FORCE IN THE COUNTY AT THE TIME OF CONSTRUCTION.
 6. ALL ADOPTABLE DRAINAGE WORKS ARE TO BE CARRIED OUT TO THE REQUIREMENTS AND FULL SATISFACTION OF ANGLIAN WATER SERVICES LTD.

7. ALL SEWERS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH WATER AUTHORITIES' ASSOCIATION PUBLICATION "SEWERS FOR ADOPTION 7TH EDITION".
 8. ALL BUILDING DRAINAGE TO BE INSTALLED AND TESTED IN COMPLIANCE WITH THE BUILDING REGULATIONS 2000 DRAINAGE AND WASTE DISPOSAL APPROVED DOCUMENT H 2002 EDITION.

9. ALL COMPONENTS AND MATERIALS ARE TO BE MANUFACTURED AND SUPPLIED IN ACCORDANCE WITH THE RELEVANT BRITISH STANDARDS AND LAID AND BACKFILLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND THE RELEVANT BRITISH STANDARDS.
 10. THE CONTRACTOR SHALL, BEFORE COMMENCING THE WORKS, VERIFY ALL SITE AND SETTING OUT DIMENSIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE TRUE AND PROPER SETTING OUT OF THE WORKS AND FOR THE CORRECTNESS OF THE POSITION, LEVELS, DIMENSIONS, AND ALIGNMENT OF ALL PARTS OF THE WORKS.

11. SMALL LIGHTWEIGHT ACCESS COVERS SHOULD BE SECURED (FOR EXAMPLE WITH SCREWS) TO DETER UNAUTHORISED ACCESS.
 12. INSPECTION CHAMBERS AND MANHOLES IN BUILDINGS TO HAVE MECHANICALLY FIXED AIRTIGHT COVERS UNLESS THE DRAIN ITSELF HAS WATER TIGHT ACCESS COVERS.

13. ALL ABOVE GROUND DRAINAGE TO INCORPORATE RODDING ACCESS FACILITIES.
 14. INSITU CONCRETE FOR USE IN GENERAL DRAINAGE WORKS. GRADE TO BS: 5328.

15. ALL GULLIES TO BE TRAPPED.
 16. FOR INTERNAL DRAINAGE POSITIONS REFER TO ARCHITECT'S CURRENT WORKING DRAWINGS.

17. FOR LANDSCAPING SURFACE MATERIAL FINISHES REFER TO ARCHITECT'S CURRENT WORKING DRAWINGS.
 18. ALL PIPES TO BE 100mm DIAMETER UNLESS NOTED OTHERWISE.

19. THE DEPTH OF THE EXISTING ADOPTED COMBINED SEWER IS APPROXIMATELY 2.0m TAKEN FROM RECORDS RECEIVED FROM ROSS DAVY ASSOCIATES ON 28th AUGUST 2012.

20. THE CONTRACTOR IS TO CONSTRUCT THE LENGTH OF SEWER BETWEEN MANHOLES C5 AND C6 PRIOR TO ANY OTHER CONSTRUCTION COMMENCING ON SITE TO ENSURE THAT THE DESIGNED SEWERS CAN DISCHARGE TO THE EXISTING COMBINED PUBLIC SEWER IN QUEEN STREET. THE CONTRACTOR IS THEN TO CONFIRM THE AS-BUILT INVERT LEVELS TO THE RCD ENGINEER IMMEDIATELY SO THAT AMENDMENTS CAN BE MADE TO THE REMAINDER OF THE PROPOSED SEWER NETWORK FOR THE DEVELOPMENT.

REV	AMENDMENT	DATE	CHKD
G	LEVELS AMENDED TO SUIT LONGSECTION	05.09.14	RAC
F	AMENDED TO SUIT EXISTING SEWER LEVELS RECEIVED 19.08.14	19.08.14	RAC
E	TANK SIZE CORRECTED AND S6 MOVED.	15.08.14	RAC
D	AMENDED TO SUIT EXISTING SEWER LEVELS RECEIVED 04.08.14	12.08.14	RAC
C	AMENDED TO SUIT ANGLIAN WATER AND NORTH Lincs. COUNCIL COMMENTS	17.07.13	RAC
B	AMENDED TO SUIT ANGLIAN WATER COMMENTS DATED 19.06.13	27.06.13	RAC

FOR APPROVAL

RCD

RCD CONSULTANTS LTD
 23 HASTINGS ROAD, MAIDSTONE, KENT, ME15 7SH
 TELEPHONE: 01622 201 037 MOBILE: 07702 052 137
 EMAIL: southeast@rcd-uk.com

CLIENT

PROJECT
 R/O 13 QUEEN STREET
 BARTON UPON HUMBER

DRAWING TITLE
 DRAINAGE LAYOUT

THE CONTRACTOR IS RESPONSIBLE FOR TAKING AND CHECKING ALL DIMENSIONS ON SITE PRIOR TO COMMENCEMENT OF WORKS AND REPORTING BACK TO THE ENGINEERING CONSULTANT ANY DISCREPANCIES.
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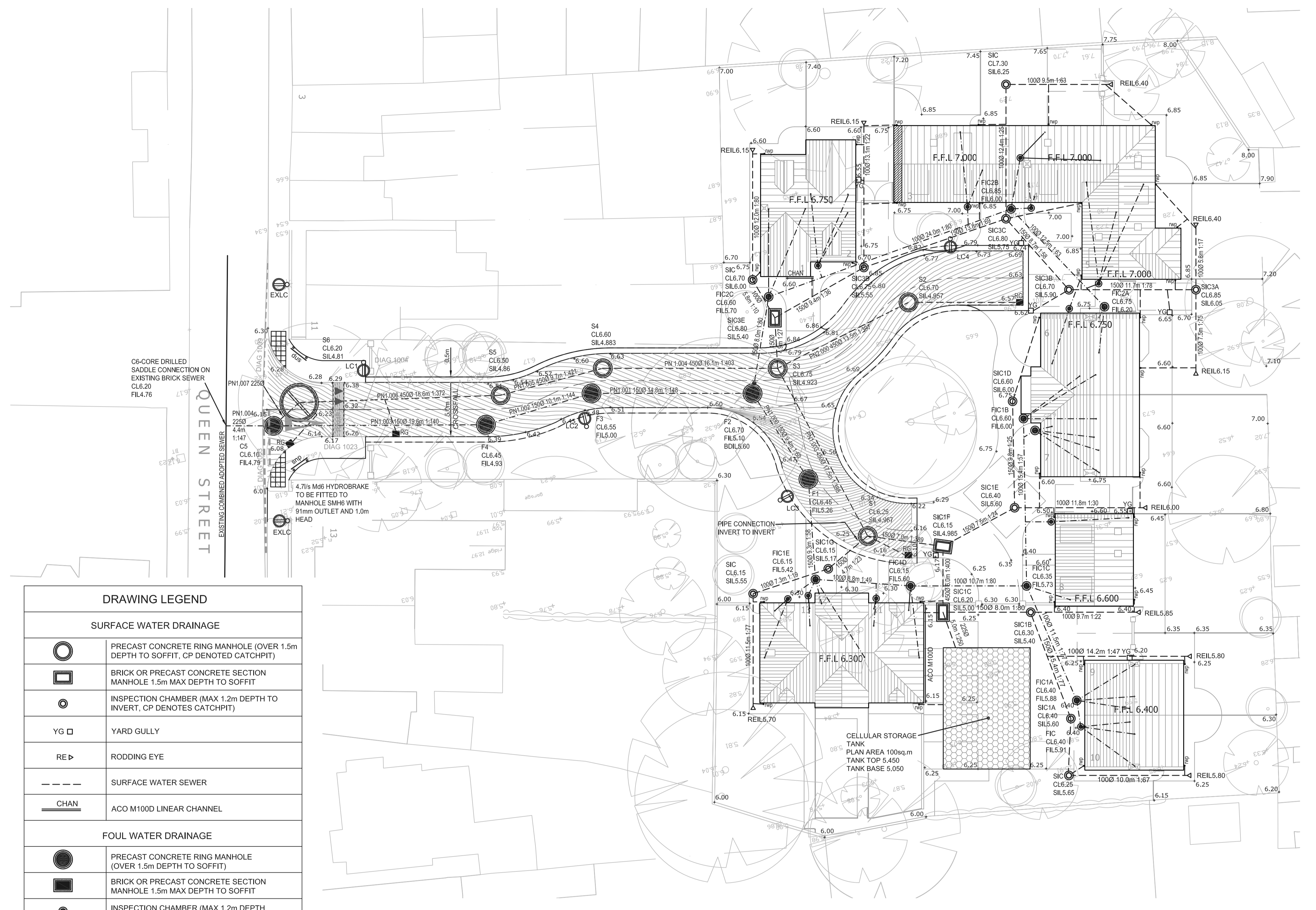
SHOULD THE PROJECT FALL UNDER THE SCOPE OF THE DISABLED DISCRIMINATION ACT, PARTY WALL ACT OR THE CDM REGULATIONS, IT IS THE EMPLOYERS RESPONSIBILITY TO INITIATE THE FOLLOWING:

DISABLED ACCESS AUDITS
 PARTY WALL NOTICES AND SURVEYS (IF REQUIRED)
 PRE-CONSTRUCTION HEALTH AND SAFETY PLAN

CIVILS

SCALE DRAWN BY CHECKED DATE
 1:200 @ A1 RAC MGC SEPT 2012
 1:400 @ A3

DRAWING NUMBER REVISION
 1115-1048-ENG-10 G



C6-CORE DRILLED SADDLE CONNECTION ON EXISTING BRICK SEWER CL6.20 FIL4.76
 QUEEN STREET
 EXISTING COMBINED ADOPTED SEWER
 4.75 M16 HYDROBRAKE TO BE FITTED TO MANHOLE SMH6 WITH 91mm OUTLET AND 1.0m HEAD

DRAWING LEGEND

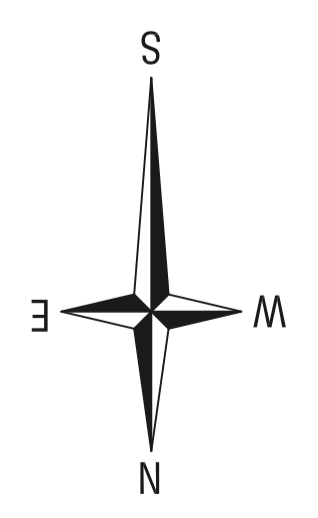
SURFACE WATER DRAINAGE	
	PRECAST CONCRETE RING MANHOLE (OVER 1.5m DEPTH TO SOFFIT, CP DENOTES CATCHPIT)
	BRICK OR PRECAST CONCRETE SECTION MANHOLE 1.5m MAX DEPTH TO SOFFIT
	INSPECTION CHAMBER (MAX 1.2m DEPTH TO INVERT, CP DENOTES CATCHPIT)
	YARD GULLY
	RODDING EYE
	SURFACE WATER SEWER
	ACO M1000 LINEAR CHANNEL
FOUL WATER DRAINAGE	
	PRECAST CONCRETE RING MANHOLE (OVER 1.5m DEPTH TO SOFFIT)
	BRICK OR PRECAST CONCRETE SECTION MANHOLE 1.5m MAX DEPTH TO SOFFIT
	INSPECTION CHAMBER (MAX 1.2m DEPTH TO INVERT)
	2500 INSPECTION CHAMBER (MAX 0.6m DEPTH TO INVERT)
	FOUL WATER SEWER
	SOIL VENT PIPE/STUB STACK
ANCILLARIES	
	PROPOSED LEVEL
	ADDITIONAL BRICKWORK BELOW DPC
	TANKING/VERTICAL DPC REQUIRED
	STREET NAME PLATE
	PROPOSED LIGHTING COLUMN (TYPE AND SPECIFICATION TBC)
	EXISTING LIGHTING COLUMN

FOUL WATER MANHOLE SCHEDULES

MANHOLE	COVER TYPE	COVER LEVEL	INVERT LEVEL	DEPTH	DIAMETER/ DIMENSIONS	MANHOLE TYPE	PIPES IN mm	PIPES OUT mm	PIPE LENGTH m	PIPE GRADIENT 1 IN
F1	D400	6.450	5.260	1.190	1200	2	150	150	9.4	60
F2	D400	6.700	5.100	1.600	1200	2	150	150	14.8	148
F3	D400	6.550	5.000	1.550	1200	2	150	150	10.1	144
F4	D400	6.450	4.930	1.520	1200	2	150	150	19.6	140
C5	D400	6.100	4.790	1.310	1200	2	225	225	4.4	147
SADDLE	-	6.200	4.760	1.440	-	-	225	300	-	-

SURFACE WATER MANHOLE SCHEDULES

MANHOLE	COVER TYPE	COVER LEVEL	INVERT LEVEL	DEPTH	DIAMETER/ DIMENSIONS	MANHOLE TYPE	PIPES IN mm	PIPES OUT mm	PIPE LENGTH m	PIPE GRADIENT 1 IN
S1	D400	6.250	4.967	1.283	1500	2	450	450	17.5	398
S2	D400	6.700	4.957	1.743	1500	2	150	450	13.5	397
S3	D400	6.750	4.923	1.827	1800	2	450	450	16.1	403
S4	D400	6.600	4.883	1.717	1500	2	450	450	9.7	421
S5	D400	6.500	4.860	1.640	1500	2	450	450	18.6	372
S6	D400	6.200	4.810	1.390	3000	2	450	225	2.0	100



NOTE:
 ALL FOUNDATIONS ADJACENT TO SEWERS ARE TO BE 150mm BELOW THE LOWEST INVERT OF THAT PIPE

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