LEGEND

EX — EXISTING ADOPTED COMBINED SEWER & MANHOLE

PR — PROPOSED FOUL WATER DRAIN

PR — PROPOSED SURFACE WATER DRAIN

SURFACE WATER FLOWS:
1)1 IN 30YR DURATION 15 MINS=
=73.3 L/S
2)1 IN 100YR+CLIMATE CHANGE
DURATION 15 MINS=
=132.3 L/S

FOUL WATER FLOWS:
BUILDING 1: 16 L/S
BUILDING 3: 15 L/S

MHS01

MHF01

EXISTING COMPINED SEWER 300VC(APPROXIMATE - TBC)

MHS02

MHF02

MHS03

2No 300mmø PIPES – GRADIENT 1:140 TO EXTEND FROM THE BASEMENT TO THE PROPOSED CONNECTION POINT INTO THE MANHOLE WITHIN PRINCESS STREET.

PIPE TO BE INSTALLED USING A HEADING – PLEASE SEE ATTACHED TYPICAL DETAIL FOR INSTALLATION METHOD.

FINAL HEADING DESIGN AND INSTALLATION METHOD TO BE CONFIRMED BY OTHERS

ASSUMES PIPE FINISHES VIA A 300mmø 90° BEND. FINAL REQUIREMENTS TO BE CONFIRMED VIA THE M&E ENGINEER

SURFACE WATER FLOWS:
1)1 IN 30YR DURATION 15 MINS=
=73.3 L/S
2)1 IN 100YR+CLIMATE CHANGE
DURATION 15 MINS=
=132.3 L/S

ALL WORKS TO AND WITHIN THE MANHOLE ARE SUBJECT TO UNITED UTILITIES APPROVAL. THIS WILL BE GAINED FROM THE SUBMISSION OF THE PART 2 APPLICATION.

THE PART 2 APPLICATION SHALL BE SUBMITTIED BY EITHER THE PRINCIPLE CONTRACTOR OR THEIR NOMINATED SUB-CONTRACTOR.

30° BEND

90° BEND

PIPES TO TERMINATE WITHIN THE EXISTING MANHOLES. WORKS REQUIREMENT:
1) AS PART OF HEADING, EXISTING WALL TO BE BROKEN OUT AS NECESSARY.
2) 600mm LENGTH ROCKER PIPE TO BE INSTALLED AT THE POINT WHERE THE PIPES EXIT THE MANHOLE CONSTRUCTION
3) MANHOLE WALL AND SURROUND TO BE REINSTATED.

ALL WORKS TO BE TO ADOPTED STANDARDS IN-ACCORDANCE WITH THE REQUIREMENT OF SFA 7TH EDITION.

WORKS WITHIN EXISTING MANHOLE:
1) EXISTING BENCHING TO BE BROKEN OUT AS NECESSARY TO SUIT THE INSTALLATION OF THE NEW PIPEWORK, BENDS AND CHANNELS TO CREATE THE REQUIRE FLOW ROUTING WITHIN THE MANHOLE.
2) WHERE BENCHING HAS BEEN BROKEN OUT IT SHALL BE REINSTATED WITH FND4z CONCRETE AND FINISHED WITH A HIGH STRENGTH CONCRETE TOPPING MINIMUM THICKNESS = 20mm.

ALL WORKS TO BE TO ADOPTED STANDARDS IN-ACCORDANCE WITH THE REQUIREMENT OF SFA 7TH EDITION.

EXISTING COMPINED SEWER 2100BR (APPROXIMATE)

EXISTING COMPINED SEWER 300VC (APPROXIMATE)

NOTES CONT:

ALL BRANCH DRAINS, OR CONNECTIONS, ARE TO DISCHARGE TO THE COLLECTORS OBLIQUELY, AND IN THE DIRECTION OF THE MAIN FLOW.

THE CONTRACTOR IS TO EXERCISE PARTICULAR CARE WHEN WORKING AT INTERFACES WITH EXISTING RETAINED CONSTRUCTION. EXISTING DRAINS IDENTIFIED ARE TO BE EXPLORED AND, WHERE NOT ALREADY IDENTIFIED ON THE DRAWINGS, ARE TO BE BROUGHT TO THE ATTENTION OF ROC CONSULTING.

ALL BEDDING AND BACKFILL TO DRAINS BELOW THE PLANE OF INFLUENCE OF ADJACENT BUILDING FOUNDATIONS TO BE CONCRETE.

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ALL INFORMATION GIVEN WITH REGARD TO EXISTING SERVICES AND DRAINAGE CONNECTIONS ETC. THIS MUST BE CARRIED OUT PRIOR TO COMMENCING ANY WORKS ON SITE.

CONNECTION TO EXISTING PUBLIC SEWER MANHOLES TO BE AGREED WITH LOCAL AUTHORITY.

ALL EXISTING DRAINAGE PROPOSED FOR ABANDONMENT IS TO BE GRUBBED OUT DURING EXCAVATIONS FOR THE WORKS OR GROUT-FILLED WHERE LEFT INSITU.

ALL EXTERNAL NEW MANHOLES TO BE CIRCULAR PRECAST CONCRETE 1050ø UNLESS NOTED OTHERWISE AS TYPICAL DETAILS WHERE LOCAL CONDITIONS PERMIT. WHERE LOCAL CONDITIONS ARE SUCH THAT CIRCULAR PRECAST MANHOLES AS SPECIFIED CANNOT BE ACCOMMODATED, RECTANGULAR BRICKWORK MANHOLES SHOULD BE CONSTRUCTED IN ACCORDANCE WITH BUILDING REGULATIONS APPROVED DOCUMENT H1: TABLE 12.

ALL LINEAR SLOT DRAINS DENOTED "DRAINAGE CHANNELS"ON THE DRAWING ARE TO BE ACO M150D 0.0 WITH D400 GRATES – TYPE TO BE ADVISED BY ARCHITECT, UNLESS OTHERWISE NOTED. ALL ASSOCIATED SUMP UNITS DENOTED "SO" ON THE DRAWING TO BE THE ACO M150D UNIVERSAL SUMP.

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NOTES

THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECT'S, ENGINEER'S AND OTHER SPECIALISTS' DRAWINGS.

THE CONTRACTOR IS RESPONSIBLE FOR CHECKING DIMENSIONS AND LEVELS AND FOR CONFIRMING THE GIVEN LEVEL OF EXISTING DRAINAGE, OUTFALL INTO PUBLIC SEWER, WATERCOURSE OR OTHER OUTFALL.

ALL WORKS TO BE IN ACCORDANCE WITH BS EN 752: BRITISH STANDARD FOR DRAIN AND SEWER SYSTEMS OUTSIDE BUILDINGS AND THE BUILDING REGULATIONS, ALL WHERE RELEVANT.

ALL 100-300mm DIA PIPES TO BE CLAY PIPEWORK. FITTINGS TO BE PLAIN END VITRIFIED CLAY WITH FLEXIBLE POLYPROPYLENE COUPLINGS AS HEPWORTH SUPERSLEEVE OR NAYLOR DENSLEEVE.

ALL CHAMBER AND MANHOLE COVERS AND FRAMES IN ROADS AND ACCESSWAYS TO BE TO BS 7903 OR BS EN 124 CLASS D400. IN FOOTWAYS AND LANDSCAPED AREAS TO BE TO CLASS B125.

ALL PIPES BENEATH BUILDINGS AND FROM SVPS, GULLIES AND WC CONNECTIONS TO ACCESS CHAMBERS TO BE 100mm AT A MINIMUM GRADIENT OF 1 IN 40 UNLESS NOTED OTHERWISE. MINIMUM GRADIENT OF 150mm PIPE BETWEEN ACCESS CHAMBERS OUTSIDE BUILDING TO BE 1 IN 80 UNO.

WORKMANSHIP GENERALLY TO BE TO SEWERS FOR ADOPTION 6TH EDITION WHERE NOT OTHERWISE COVERED IN BS EN 752.

ALL RWP's AND FOUL WATER APPLIANCES TO HAVE ACCESS POINT FOR RODDING ABOVE GRD LEVEL / FLOOR LEVEL

WHERE PIPES PASS UNDER BUILDINGS, UNLESS BEAM & BLOCK FLOORS ARE USED, THEY ARE TO BE SURROUNDED IN 100mm CONCRETE AS BUILDING REGULATIONS APPROVED DOCUMENT H1: DIAGRAM 12. THE CONCRETE SURROUND IS TO HAVE 18mm WIDE MOVEMENT JOINTS OF THICK COMPRESSIBLE BOARD AT EACH PIPE POINT POSITION AND AT A MAXIMUM OF 5m CENTRES ALONG THE LENGTH OF THE PIPE.

PIPE SURROUND REQUIREMENTS:
HIGHWAYS/AREAS SUBJECT TO VEHICLE OVERRUN:
COVER GREATER THAN 1.2m = TYPE S
COVER LESS THAN 1.2m = TYPE Z
AREAS NOT SUBJECT TO VEHICLE OVERRUN:
COVER GREATER THAN 0.6m = TYPE S
COVER LESS THAN 0.6m = TYPE Z

ALL CONCRETE TO BE FND4Z UNLESS OTHERWISE NOTED.

DRAINAGE REQUIREMENTS WITHIN THE BASEMENT:
A) NON-RETURN VALVES TO BE INCLUDED ON BOTH OUTGOING PIPES – VALVES LOCATED WITHIN THE BASEMENT FOR EASE OF MAINTENANCE. SPECIFICATION BY M&E
B) ANY REQUIREMENT FOR DRAINAGE WITHIN THE BASEMENT INCLUDING BUT NOT LIMITED TO; GULLIES TO CAR PARKING, LIFT PITS, FIRE FIGHTING REQUIREMENTS AND PLANT TESTING AND MAINTENANCE SHOULD BE PUMPED AND CONNECTED BACK TO THE OUTGOING PIPES AT HIGH LEVEL. CONNECTION SHOULD BE UPSTREAM OF ANY NON-RETURN VALVE TO PREVENT ISSUES WITH SURCHARGING FROM THE ADOPTED SEWER NETWORK. SPECIFICATION BY M&E

REV.	DATE	DETAILS	DRN.	CHK.
03	24.08.2017	CONNECTIONS AMENDED	SK	AR
02	05.06.2017	SECTION B-B ADDED	PMF	MN
01	24.02.2017	WORKS UPDATED TO CONSTRUCTION AND INCLUDES DETAILS OF MANHOLE SURVEY	AR	MN

DRAWING STATUS
CONSTRUCTION

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DRAWN	DATE	SCALES
ARR	DEC15	AS SHOWN
CHECKED	DATE	THE ABOVE SCALES APPLY WHEN PLOTTED AT A1 SIZE --DO NOT SCALE--
APPRVD.	DATE	EMAIL FOR DRAWINGS info@rocconsulting.com

CLIENT
URBAN AND CIVIC

PROJECT TITLE
PRINCESS STREET

DRAWING TITLE
SITE CONNECTION STRATEGY

PROJECT No.	DRAWING No.	REV.
3251	BX-DR01	03

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ACADFILE

PLOTDATE