NOTE:
SETTING OUT OF ALL RWP, STUB-STACK AND SVP POSITIONS BY ARCHITECT/M&E.

NOTE:
DETAILS SUBJECT TO ALTERATION PENDING BUILDING CONTROL, LOCAL AUTHORITY AND SEWERAGE UNDERTAKER APPROVAL / COMMENTS.

NOTE:
THIS DRAWING HAS BEEN BASED ON TOPOGRAPHICAL SURVEY PREPARED BY ENGINEERING LAND & BUILDING SURVEYS REF:B7542_TOPO_rev3 DATED MAY 2010 WHICH SHOULD BE REFERRED TO FOR KEY INFORMATION.

NOTE:
ALL PIPEWORK NOT CAST WITHIN CONCRETE AND GREATER THAN 600mm BELOW SLABS SHALL BE uPVC IN ACCORDANCE WITH ALL RELEVANT MANUFACTURING STANDARDS, WITH A 150mm SHINGLE SURROUND, EXCEPT SEWER CONNECTIONS THAT SHALL BE VITRIFIED CLAY PIPES IN ACCORDANCE WITH BS EN 295.

NOTE:
ADOPTABLE HIGHWAY BOUNDARY BY OTHERS

NOTE:
THE CONTRACTOR SHALL CHECK AND CONFIRM TO THE ENGINEER ASSUMED SIZES, DEPTHS, LEVELS AND LOCATIONS OF EXISTING SEWERS AND MANHOLES PRIOR TO CONSTRUCTION COMMENCING.

NOTE:
ALL CAST IRON DRAINAGE WITHIN CONCRETE SHALL BE AIR TESTED BEFORE CONCRETE IS POURED TO ENSURE THAT THE SYSTEM IS AIR TIGHT AND ADEQUATELY SEALED.

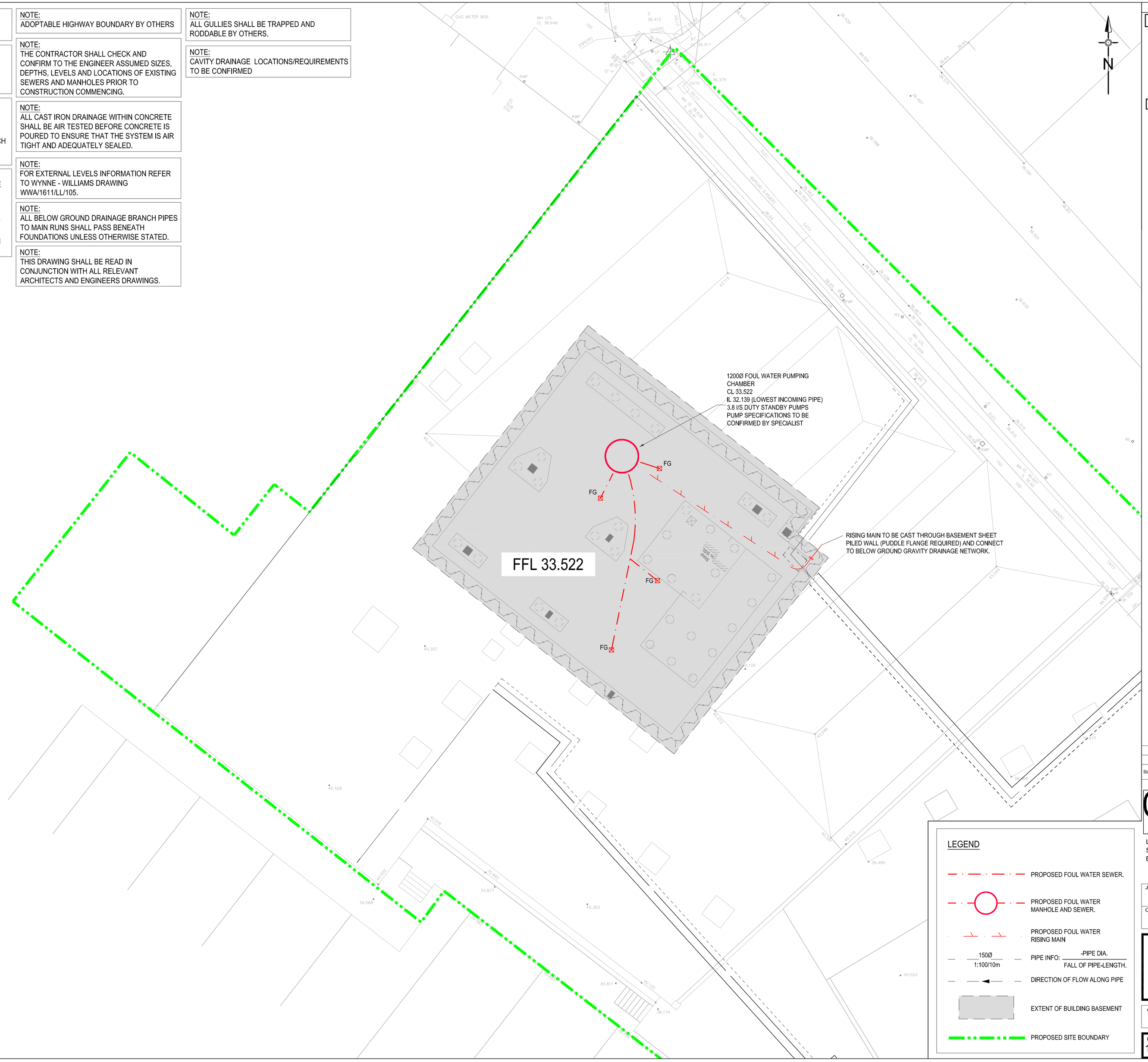
NOTE:
FOR EXTERNAL LEVELS INFORMATION REFER TO WYNNE - WILLIAMS DRAWING WWA/1611/LL/105.

NOTE:
ALL BELOW GROUND DRAINAGE BRANCH PIPES TO MAIN RUNS SHALL PASS BENEATH FOUNDATIONS UNLESS OTHERWISE STATED.

NOTE:
THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS AND ENGINEERS DRAWINGS.

NOTE:
ALL GULLIES SHALL BE TRAPPED AND RODDABLE BY OTHERS.

NOTE:
CAVITY DRAINAGE LOCATIONS/REQUIREMENTS TO BE CONFIRMED



NOTES

1. DO NOT SCALE THIS DRAWING ON PRINT OR ELECTRONICALLY. WORK FROM FIGURED DIMENSIONS ONLY.
2. No deviation from the details shown on this drawing is allowed without CampbellReith's prior permission in writing.
3. Read this drawing with all Architects, Service Engineers and CampbellReith's relevant details and drawings. **NB.** Setting-out dimensions as per the Architect's drawings take precedence.
4. All work is to be in accordance with the relevant specifications issued by CampbellReith, British Standard Codes of Practice, Statutory requirements and the Contract Documents.
5. DRAWING STATUS

   P : PRELIMINARY - Evolving drawings for approvals,Tenders, Billings, etc.

   C : CONSTRUCTION - Fully developed drawings issued under instruction for construction

ONLY STATUS C DRAWINGS TO BE USED FOR CONSTRUCTION.

6. SUITABILITY CODE

   WORK IN PROGRESS:

   S0 - Work in progress

   SHARED (NON-CONTRACTUAL):

   S1 - For coordination, **S2 -** For information, **S3 -** For internal review and comment, **S4 -** For construction approval.

   DOCUMENTATION (FOR CONTRACTOR PURPOSES):

   D1 - For costing, **D2 -** For Tender, **D3 -** For contractor design, **D4 -** For manufacture / procurement.

   CONSTRUCTION:

   A - For construction, **B -** For construction but with comments (i.e. areas in abeyance), **C -** Comprehensive revisions required.

6 Existing details shown on this drawing including kerblines, sewerage pipework, stub connections, levels & inverts etc. Must be confirmed on site by the contractor for their accuracy. If any discrepancies occur the engineer must be informed.
7 The proposed building outlines shown on this drawing are indicative only. Refer to architects layouts for exact external outline of proposed blds.
8 External rain water pipes, & internal svp's, ss's, dp's & floor gully locations/connections etc. Shown on this drawing are approximate/ indicative only. Refer to archs drgs for their exact locations & types.
9 All external adoptable storm pipework & lateral connections shown falls of 1:120 unless stated otherwise.
10 All external private storm pipework & lateral connections shown on this drawing are to be 100Ø & are to have minimum falls of 1:100 unless stated otherwise. All external private foul pipework & lateral connections shown on this drg are to be 100Ø & are to have minimum falls of 1:80 unless stated otherwise.
11 Existing adopted/non-adopted storm & foul water mh's & sewers which have been made redundant by new storm/foul systems, shall be abandoned/removed. Existing sewer & manholes are to be abandoned/ /removed in compliance with L.A. specifications.
12 Cover levels shown on this drawing are approximate & are to be adjusted to suit finished pavement levels on site by contractor. Covers shall be orientated to suit pavement finishes.
13 UNDERSLAB DRAINAGE CONNECTIONS:
   a) All underslab foul connections upto first external inspection chamber/ manhole are to be 100Ø & are to have a minimum fall of 1:40 unless stated otherwise. After first external inspection chamber/manhole connections are to be 100Ø & have a minimum fall of 1:80 unless stated otherwise.
   b) All underslab storm connections upto first external inspection chamber/ manhole are to be 100Ø & are to have a minimum fall of 1:40 unless stated otherwise. After first external inspection chamber/manhole connections are to be 100Ø & have a minimum fall of 1:100 unless stated otherwise.
   c) Final orientation & position of first external chambers receiving underslab connections are to be determined on site by contractor.
   d) Bends along underslab connections are to be long radius 5-45°. Bends at bottom of stacks/soil vent pipes are to be long radius 90°.
   e) All under slab drainage connections are to be clear of unit foundations unless unavoidable. Refer to CRH structural drawings for exact location of unit foundations.
   f) Finished underslab drainage route connections ie. Bend & straight combinations are to be determined on site to suit the number of bends in each connection is to be kept to a minimum.
14 All adoptable storm sewerage runs to be laid soffit to soffit unless stated otherwise. All Adoptable foul sewerage runs to be laid soffit to soffit unless stated otherwise. All non-adoptable storm/foul sewerage to be laid soffit to soffit unless stated otherwise.
15 External rainwater pipes are to be roddable above ground (refer to details).
16 All works are non-adoptable unless stated otherwise.
17 Adoptable pipe work to be concrete or unlifed clay.
18 Class Z concrete encasement required where vertical clearance between two pipes is less than 300mm.
19 For the provision of land drainage if required refer to landscape architect for details/specification.
20 At least one soil pipe at at the head of each run shall vent to the atmosphere.
21 All adoptable drainage shown on this drawing shall be constructed in accordance with water authorities association sewers for adoption 7th edition.

Status/Rev	Description	Date	By
P2	ISSUED FOR TENDER	01.12.16	ST
P1	ISSUED FOR TENDER	24.03.16	MG

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www.campbellreith.com

Job Title
GREENWOOD CENTRE

Client
KIER

BASEMENT PROPOSED FOUL DRAINAGE LAYOUT

drawn	date	scale @ A1	C1 checked	CR Project No.
MG	JUL'16	1:200	-	12291

Drg No.	Suitability	Status/Revision
12291-CRH-GC-XX-DR-C-5057	S2	P2

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