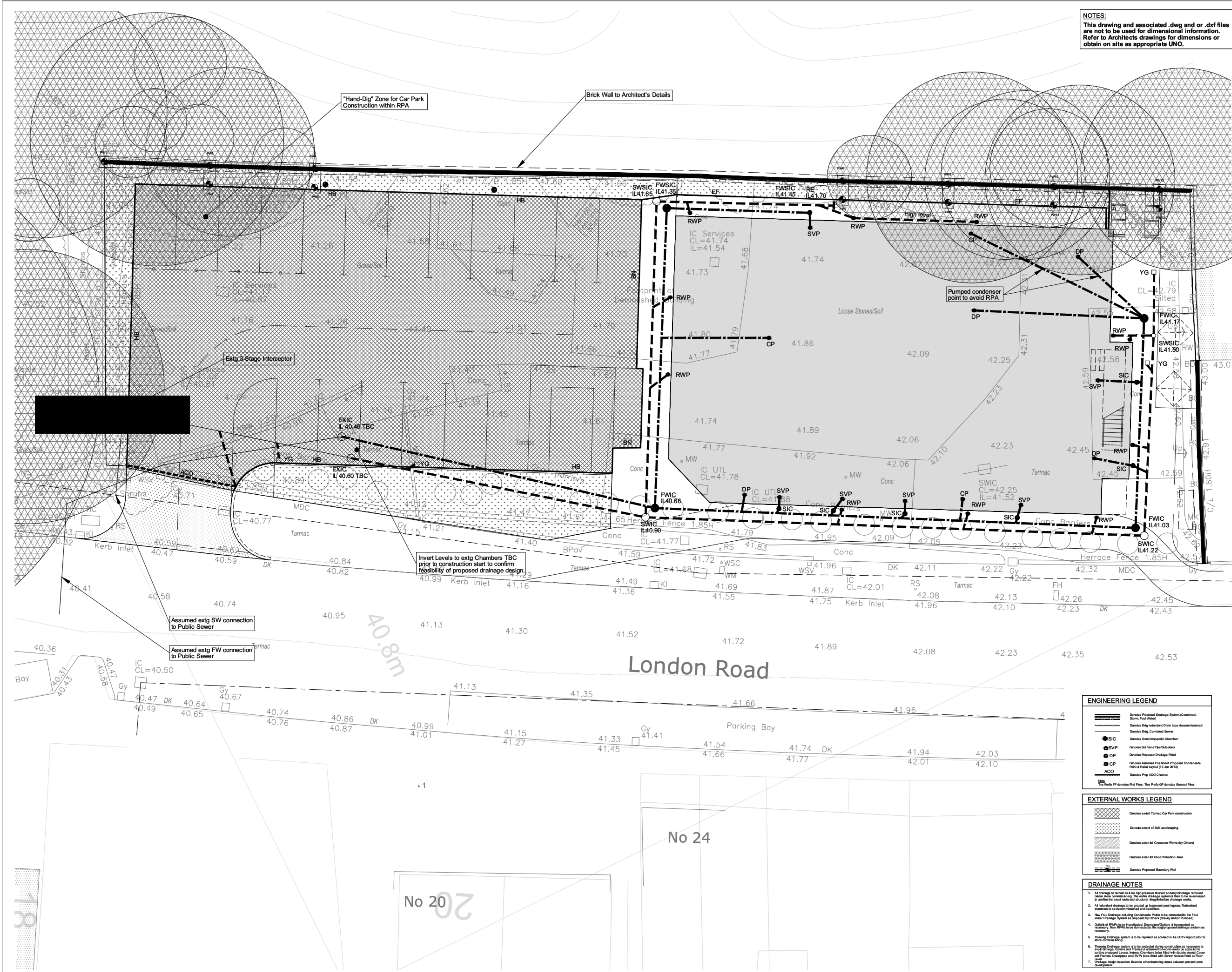




NOTES:
This drawing and associated .dwg and/or .xdw files are not to be used for dimensional information. Refer to Architects drawings for dimensions or obtain on site as appropriate UNO.

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- Notes
- This drawing should be read in conjunction with all Architects details and Specifications.
 - Refer to the Architect's for the proposed levels.
 - Before commencing any Sewer or drainage works, the Developer's Groundworker must satisfy themselves and Barter Hill and the Local Authority of the actual levels, type and conditions of existing sewers.
 - All buried concrete to be Class 1 conditions in accordance with BRE special digest/BRE Digest 363.
 - All abandoned, buried obstructions encountered during the construction of Highway & Drainage Works are to be broken out to bed level of drains and sewers, and to the formation of carparks and drives etc., and to sufficient depth to allow for laying service company's mains and services.
NOTE:
All Service entries in to buildings are to be mastic sealed at ground level to avoid possible ingress of gases.
- ALL BURIED CONCRETE BELOW 2.0M TO BE TO CLASS 1 CONDITIONS
- In situ concrete to benchings of foul manholes to be Class 4 conditions; i.e. min. cement content of 360kg/m³ Sulphate Resisting Portland Cement, and max. free water ratio of 0.45 and 20mm n.s. aggregate.
 - Depth and location of all existing services to be traced and recorded prior to any drainage excavations.
All private drainage to be laid to levels shown using flexibly jointed pipes, either uPVC to BS 4660 and BS5481 or vitrified clayware to BS EN 295. Connections to be at invert level unless otherwise indicated.
 - All private drainage works to be carried out in accordance with the provisions laid down in BS EN 752 & The Building Regulations, Part H.
 - Generally pipes to have granular Bed & surround in accordance with manufacturers recommendations ensuring adequate protection with respect to depth and location. SW drainage to be Ø110mm and generally laid to a 1:100 fall. FW drainage to be Ø110 and generally laid to a 1:80 fall unless otherwise indicated. All new connection to be at invert level.
 - The route, location, depth and outfalls of all sewers and drains within the demise are to be accurately determined before the start of any drainage works. All extg drainage features to remain are to be protected during the Building Works.
 - Car Park and external areas to be constructed in accordance with the Architect's levels strategy proposed.

T2	Drainage design added as per CCTV.	MG	JR	20.01.14
T1	Tender Issue.	MG	JR	20.12.13
PL1	Planning Issue.	WM	MG	09.10.13

Rev.	Description	By	Chk.	Date
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Consulting Structural & Civil Engineers

Client

TESCO express

Project
London Road
Purbrook, Portsmouth

Drawing Title
Engineering Layout

Designed by MG	Drawn by MG	Checked by JR
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Scale @ A1 1:100	Date Oct. 2013
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Drawing No. 3373/100	Revision T2	Job Ref 3373
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Status
TENDER ISSUE

Cad file P:3373\Civil	Contact Office Magdalen Laver
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ENGINEERING LEGEND	
	Denotes Proposed Drainage System (Combined, Storm, Foul Water)
	Denotes Redundant Drain Inlet decommissioned
	Denotes Existing Combined Sewer
	Denotes Small Inspection Chamber
	Denotes Vent Pipe/Sub-stack
	Denotes Proposed Drainage Point
	Denotes Assumed Foulwater Proposed Condensate Point & Foulwater (13 Jan 2013)
	Denotes Prop ACO Channel
Note: The Profile FF denotes First Floor. The Profile GF denotes Ground Floor.	

EXTERNAL WORKS LEGEND	
	Denotes existing Tarmac Car Park construction
	Denotes extent of Soft Landscaping
	Denotes extent of Cross-over Works (by Others)
	Denotes extent of Roof Protection Area
	Denotes Proposed Boundary Wall

- DRAINAGE NOTES**
- All drainage to remain is to be high pressure flushed and any blockage removed before any construction. The entire drainage system is to be re-surveyed to confirm the actual levels and structure. Any changes to the drainage system are to be noted on this drawing.
 - All redundant drainage to be grouted up to prevent pest ingress. Redundant manholes to be decommissioned and sealed.
 - New Foul Drainage including Condensate Points to be connected to the Foul Water Drainage System as proposed by Others (Sewer and/or Pumped).
 - Outfall of RWP to be investigated. Drainage/Culture & be required as necessary. New RWP to be connected to the existing drainage system as necessary.
 - Thorough Drainage system is to be completed as advised in the CCTV report prior to any construction.
 - Thorough Drainage system is to be protected during construction as necessary to avoid damage. Ground and Foulwater external boundaries are to be sealed to the actual proposed levels. Internal Chambers to be filled with double-skin Cover and Frames. Chambers and RWP to be filled with Stone Aggregate and Floor. Drainage design based on balance of water ending areas between pre and post developments.