Brought to you by Building Plan Unit, PUB

E-NEWSLETTER

KEEPING YOU INFORMED

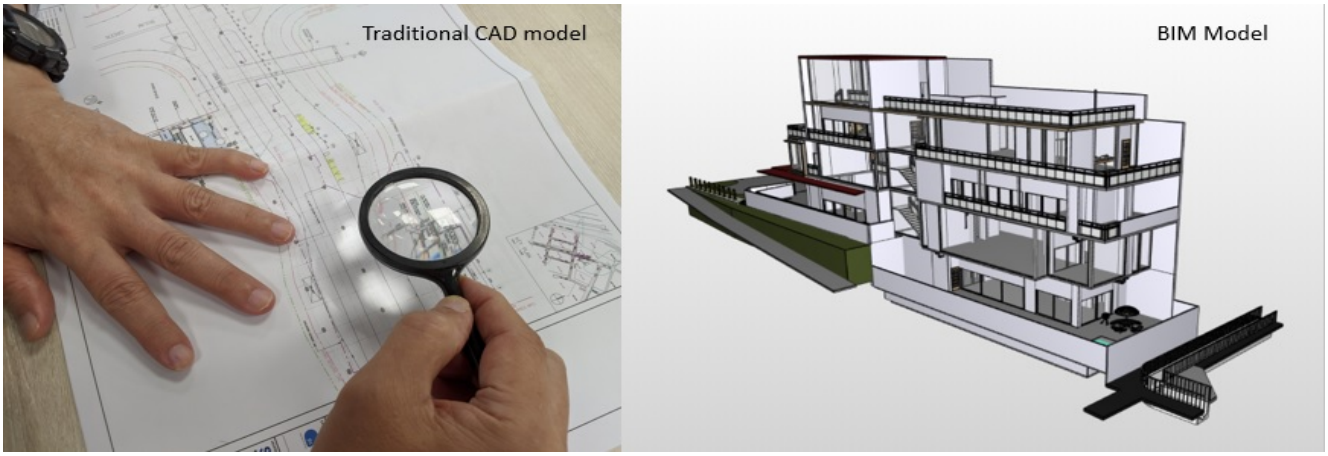
Issue 10 June 2020

We are very excited to present to you our 10th e-newsletter. This e-newsletter seeks to share with you any updates on PUB and bring to you useful information, updates and ideas.

In this issue, we'll share more information about PUB's latest initiative to *automate checks on building submissions* and *guidelines on specific requirements of water discharge to drain and/or sewer.*

Towards Zero Resubmission – Greater Operational Efficiency with PUB's BIM e-Checker Portal

PUB is proud to have recently launched the Building Information Model (BIM) e-Checker – an online self-service portal which enables Qualified Persons (QPs), such as architects and engineers, to self-check their design for compliance with PUB's Code of Practices before making a formal submission in CORENET.



A comparison of the traditional method of reviewing building design against the new method of 3D model for regulatory review.

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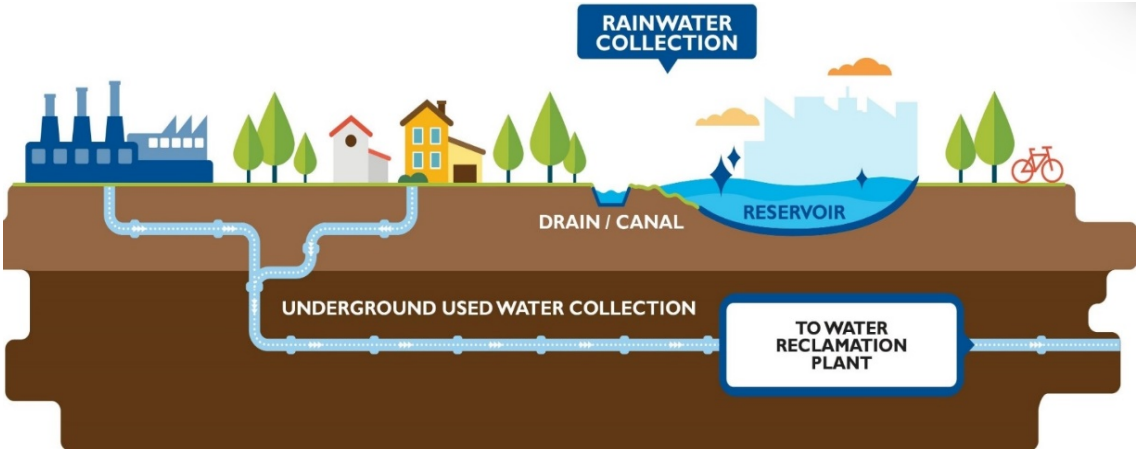
Developed in consultation with professionals like yourself, the BIM e-Checker automatically checks BIM submission in open BIM format (IFC) for compliances with standing regulations, guidelines and Code of Practices and is capable of generating the results of the checks within 24 hours. Checks can be conducted any time of the day by simply uploading the open BIM formatted (IFC) designs into the system

For more information on the PUB BIM e-Checker, please visit us at: https://BuildingPlanChecker.pub.gov.sg. If further assistance is required, users may write in to pub_bpu@pub.gov.sg

PUB look forward to have you on-board the e-Checker.

Guide on water discharge

You may wish to refer to the following guide on what can be discharged to drain and/or sewer (see annex). This covers the most types of water discharge from a typical building.



You can also get information on the discharge requirements on our website at: https://www.pub.gov.sg/compliance/usedwater

Guide

Annex

Specific Requirements for Water Discharge

	Source of Discharge	Discharge to		Remarks
		Storm Water Drainage	Sewer	
A	**Areas that receive rain water**			
	i. Open areas such as backyards/ courtyards/air wells, or other uncovered areas ii. Open-sided areas like void decks, common corridors, balconies verandas, multi-storey car parks (excluding car washing bays) and pump islands at petrol stations[1] iii. Footbaths and open shower points for swimming pool[2] iv. Any other area that receives rain water	√		Rain water shall be channelled to a stormwater drainage system while sewage shall be channelled to sewer network. [1] No washing of the area using detergent is allowed. [2] Use of soap/shower foam and gel is not allowed.
B	**Air Conditioning System (AHU / FCU)**			
	i. Condensate from AHU / FCU	√	√*	Condensate shall not discharge in a manner as to cause public nuisance. *Where there is no available surface outlet connected to the stormwater drainage system in the premises such as in HDB or condominium units, the condensate from AHU can be discharged into a sewer via a floor trap.
	ii. Used water from washing of AHU / FCU	√*	√	Used water shall be discharged into sanitary/sewerage system. *Only for AHU located at outdoor/rooftop where there is no available sanitary/sewerage system, the used water from washing of AHU can be discharged into stormwater drainage system in a manner without causing inconvenience to the public.
C	**Cooling Tower**			
	Water from overflow/draining/cleaning of cooling tower		√	
D	**Swimming Pool**			
	i. Overflow water from swimming pool balancing tank	√		
	ii. Backwash water from swimming pool filter		√	
	iii. Draining of swimming pool before cleaning of swimming pool	√		
	iv. Used water generated from cleaning of swimming pool		√	

E	**Water Storage Tank Containing Potable Water**			
	i. Overflow of water from potable water storage tank	√		
	ii. Water from draining of potable water storage tank before cleaning (emptying the tank)	√		
	iii. Used water from washing/cleaning and sterilization of the storage tank	√*	√	Used water shall be discharged into sanitary/sewerage system. *Only for water storage tanks located at outdoor/rooftop where there is no available sanitary/sewerage system, the used water from washing of water tank can be discharged into stormwater drainage system in a manner without causing inconvenience to the public.
F	**Fire Protection System**			
	i. Water discharge during fire emergency or false alarm	√	√	As these are unplanned and uncontrollable events, water from firefighting or false alarm can be discharged to sewer or drain.
	ii. Water discharge during non-emergency (ad-hoc inspection or periodic testing/ maintenance)	√		
G	**Rain Water Harvesting Tank**			
	i. Unused rainwater overflowed or drained-out from a rain water harvesting tank	√		
	ii. Used water from washing/cleaning of the rain water harvesting tank		√	
H	**Water Features**			
	i. Water overflowed from outdoor or indoor water features	√	√*	*Only for indoor water feature where there is no available outlet connected to the stormwater drainage system, the overflow of water from indoor water features can be discharged into a sewer via a floor trap.
	ii. Used water from washing/cleaning of outdoor or indoor water features		√	
I	**Industrial Waste Water**			
	Trade effluent discharge (used water from any industrial process is treated as trade effluent)		√	All trade effluent discharged into the public sewer shall comply with the Sewerage and Drainage Act and the allowable discharge limits as stipulated in the Sewerage and Drainage (Trade Effluent) Regulations. Pre-treatment might be necessary before discharge to sewer. The operator shall apply to PUB for a "Written Approval to Discharge Trade Effluent".

J	**Underground Structures (e.g. Basement, Underpass, Rail and Road Tunnel, etc)**			
	i. Washing activities		√	Such used water discharged into the public sewer shall not contain any silt or chemical substances that are not permitted or exceeded the allowable discharge limits as stipulated in the Sewerage and Drainage (Trade Effluent) Regulations. Pre- treatment might be necessary before discharge to sewer.
	ii. Ground water seepage or ingress of rainwater	√		To comply with Singapore Standard SS593: Code of Practice for Pollution Control.