

Our Ref: PUB (CW) 100/14/009

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6 Sept 2012

Tel: 67313210

(Please see distribution list)

Dear Sir/Madam

CHECKLIST FOR SUBMISSION OF DEVELOPMENT CONTROL PLANS TO PUB CATCHMENT & WATERWAYS DEPARTMENT

In order to enhance the completeness in Development Control (DC) plan submission by Qualified Person (QP) to PUB, we will be publishing a new checklist to guide the QP to comply with PUB drainage requirements.

For each DC application, the QP for the project is required to submit a signed copy of the completed checklist, together with the relevant plan for submission. A copy of the checklist is attached in this letter (refer to Annex A) and will be made available in the official website of PUB and NEA. PUB will commence the implementation of this checklist from 1 Oct 2012. Any DC submission made after 1 Nov 2012 without this checklist will be rejected.

We will be organising a sharing session on the 6th edition of Code of Practice on Surface Water Drainage and the submission requirements on 24 Sept 2012. Please register with Miss Ng Zhi Ying (email: Ng Zhi Ying@pub.gov.sg) by 19 Sept 2012. All QPs are encouraged to attend this sharing session. More details of the sharing session could be found in Annex B.

We would appreciate it if you could convey the contents of this circular to relevant members of your organization. If you have any queries concerning this circular, please do not hesitate to contact Mr Chow Siew Hung (Tel: 67313921) or Miss Ng Zhi Ying (Tel: 67313481). The circular is also available from our website.

Yours faithfully,

TAN NGUAN SEN

DIRECTOR (CATCHMENT & WATERWAYS)

PUB

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PUBLIC UTILITIES BOARD

CATCHMENT & WATERWAYS DEPARTMENT

CHECKLIST FOR DC PLANS

Proposal:					
Name of Qualified Person:					
	GENERAL	YES	<u>NOT</u> APPLICABLE		
1 2 3	Applied and obtained Drainage Interpretation Plan (DIP) Site boundary lines indicated Proposed internal drains are able to discharge into roadside/				
4	outlet drain as shown on plan Proposed discharge point of internal drains are highlighted on plan				
5	If the proposed development site area exceeds 0.4 ha, hydraulic calculations for the proposed internal drainage facilities, including sub-catchment plan of the proposed development site endorsed by a Professional Engineer (Civil) to be submitted for Public Utilities Board (PUB) record at Detailed Plan submission stage				
6 7	All addition and alteration works highlighted For JTC, HDB, URA developments, the overall drainage masterplan of the development site shall be attached together with the submission				
8	DRAINAGE RESERVE Drainage Reserve lines and lot boundaries indicated, dimensioned and highlighted				
9	COMMON DRAIN Alignment, size and flow of existing common drain within the development lot indicated				
10	If there is common drain within the development site, the following shall be endorsed on the plan: "Surface runoff from the site and all neighbouring lots shall continue to be allowed to discharge through the common drain within the site."				
11	There is no permanent structure erected above and over the common drain				
12	If the proposal involves the reconstruction of common drain, the proposed common drain shall be at least 450mm wide as stipulated in Section 4.5 of Code of Practice on Surface Water Drainage or any other sizes as directed by PUB				
13	Details of the proposed common drain to be submitted by Professional Engineer (Civil) separately to PUB for approval. This is to be annotated on the plan				
14	The position of the existing/proposed boundary wall/fence clearly indicated				

MINIMUM PLATFORM LEVEL (MPL) MPL of development

		YES	NOT APPLICABLE
16	All proposed/existing platform levels shall be clearly indicated on plan		
17	The proposed platform levels and road/ground levels adjacent to the internal drain outlet discharge point clearly indicated		
18	For addition and alteration works submission, the existing platform levels indicated		
19	Linkage (direct/indirect)* to special underground facilities and basements indicated and complied with the latest Code of Practice on Surface Water Drainage (*Delete appropriately)		
20	OPENING LEADING TO BASEMENT LEVEL Crest level of access ways and openings leading into the basement indicated and complied with the latest Code of Practice on Surface Water Drainage		
21	Cut off drain indicated		
22	PUMPED DRAINAGE SYSTEM Pumped drainage system complied with the latest Code of Practice on Surface Water Drainage. Details of pumped drainage system and design computations duly endorsed by PE shall be submitted separately to PUB for record		
23	Source catchment area with surface runoff leading into the pumped drainage system clearly indicated		
24	The location, size, inlet and outlet connections of the rainwater pump sump for the proposed pumped drainage system clearly indicated		
25	PROPOSED DRAINAGE WORKS Proposed/ existing drains and drains to be deleted clearly indicated using different colour		
26	Alignment, summit point, flow direction, type & size and outlet discharge points of the proposed/existing internal drains clearly indicated		
27 28 29 30	Connection point to existing drain indicated Sump size indicated Vertical grating at internal drain outlet discharge point provided External drainage works (including culvert details) to be		
-	submitted separately. This shall be clearly annotated on plan		

(Indicate the MPL)

		YES	NOT APPLICABLE
31	RETAINING WALL If a retaining wall is erected to raise the ground level of the development site above adjacent premises, adequate internal drainage system provided to effectively intercept and drain away runoff including the sub-soil flow from the development site		
32	If a retaining wall is erected to lower the ground level of the development site, adequate internal drainage system provided to effectively intercept and drain away existing sub-soil and overland flows discharging through the development site from the adjacent premises		
33	DRAINAGE AFFECTING OTHER PREMISES Minimum 600mm high solid boundary wall around development site is erected to prevent surface runoff from overflowing into adjacent premises on lower ground		
I her	eby confirm that the above items have been complied with and endorsely also certify that (the standard endorsement below will also be ceed). The planning, design, construction activities and procedures for procedures for procedures are fully with the requirements as stipulated in the latest edition of the Surface Water Drainage and The Sewerage and Drainage (Surface Regulations 1999. b) The capacity of internal drains shall be sufficient to intercept and the development site. c) The runoff within, upstream of and adjacent to the development I away without causing flooding within the lot or in areas outside the sufficient to the development of the latest edition of the surface was a sufficient to intercept and the development site.	rtified on the clan submiss e Code of Pr e Water Dra discharge al	e plans):- ion shall comply ractice on inage) Il runoff from
Name	e & Signature of Qualified Person		Date
PE R	egistration No:		

^{*}Public Utilities Board (PUB) reserves the right to report any false declaration of information to the relevant professional bodies for action in accordance to the Act/ethnics governing all the Qualified Professional.*

ANNEX B

Sharing Session on the $6^{\rm th}$ Edition of Code of Practice on Surface Water Drainage & Submission Requirements

Date:

24 Sept 2012 (Monday)

Time:

Session 1 (8:45am to 12 noon)

Session 2 (1:15pm to 5:00pm)

QP is only required to attend one session. Detailed programme could be found at Page 2 of Annex B

Venue:

Auditorium, Waterhub

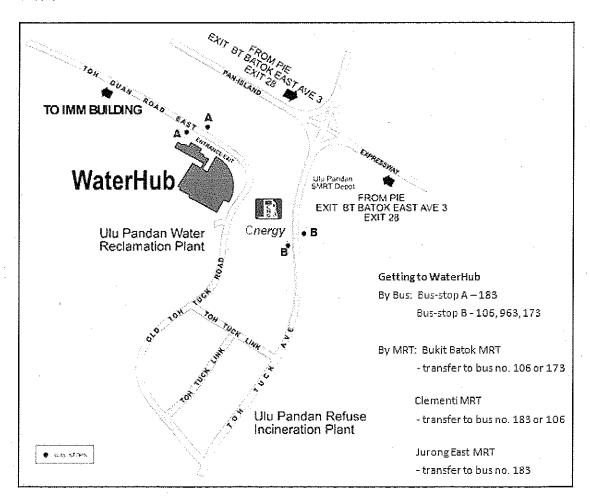
80 Toh Guan Road East

Singapore 608575

Registration Deadline:

19 Sept 2012

Please register with Miss Ng Zhi Ying (email: Ng Zhi Ying@pub.gov.sg)/ Tel: 67313481 with your full name, IC number, profession if you wish to attend the sharing session.



Sharing Session on the $\mathbf{6}^{\text{th}}$ Edition of Code of Practice on Surface Water Drainage & Submission Requirements

Time	Activity
Session 1: 0845	Registration
Session 2: 1345	
Session 1: 0915	Opening Address by Director of Catchment & Waterways, Mr Tan
Session 2: 1415	Nguan Sen / Chief Engineer (Drainage Planning), Mr Ridzuan Ismail
Session 1: 0930	Sharing Session on the 6 th Edition of Code of Practice on Surface
Session 2: 1430	Water Drainage
Session 1: 1030	Tea Break
Session 2: 1530	
Session 1: 1045	Sharing Session on the Implementation of PUB Drainage Checklist
Session 2: 1545	for Development Control (DC) Plans
Session 1: 1100	Sharing Session by Water Reclamation (Network) Department
Session 2: 1600	
Session 1: 1145	Q&A Session
Session 2: 1645	
Session 1: 1200	End
Session 2: 1700	